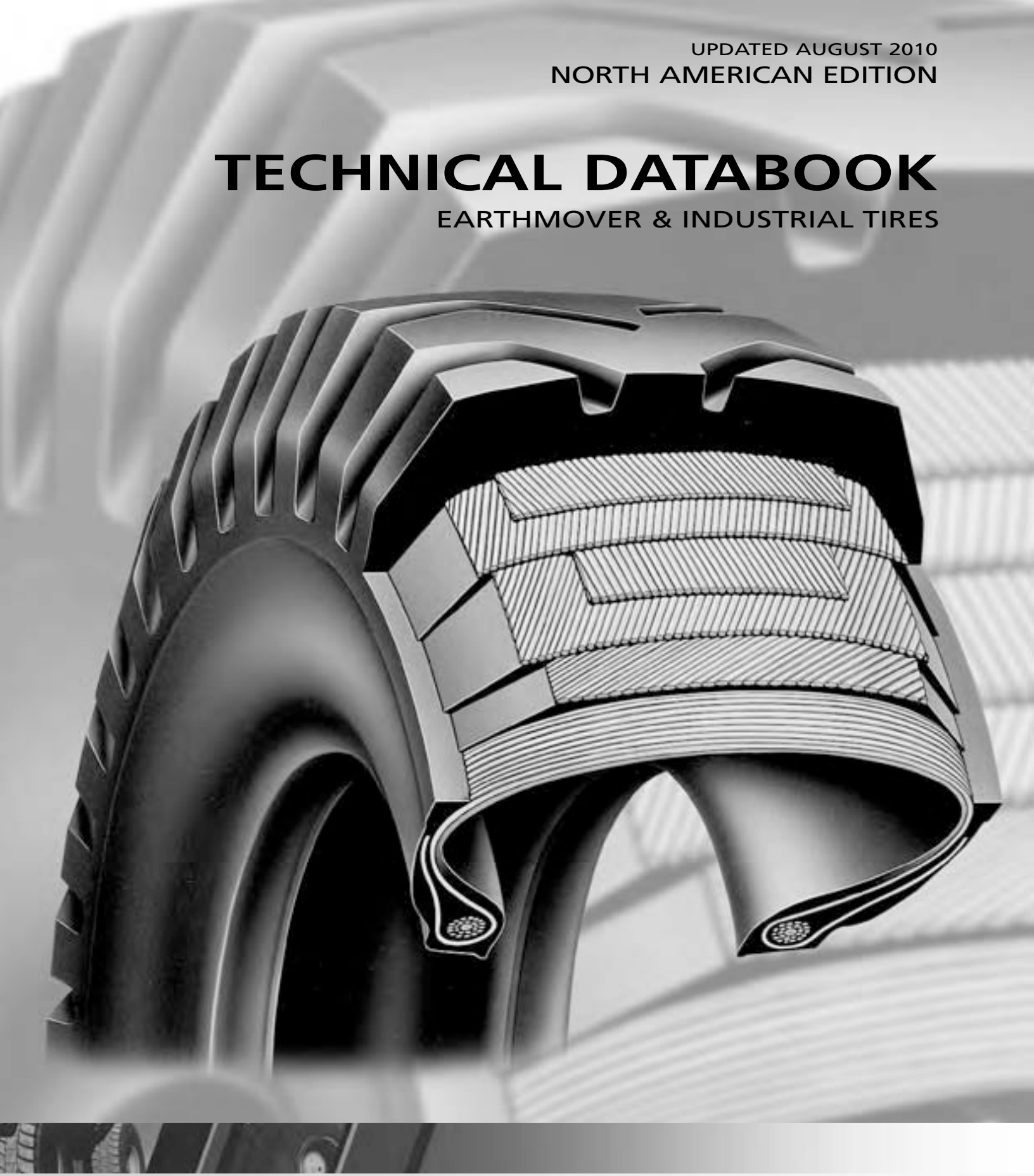
UPDATED AUGUST 2010

NORTH AMERICAN EDITION

TECHNICAL DATABOOK

EARTHMOVER & INDUSTRIAL TIRES



MICHELIN

A better way forward

Michelin® has specific recommended conditions for the storage, selection, mounting, inflation, pressure, use, monitoring and maintenance of its tires. The conditions stated by Michelin®, shall be adhered to by the Customer. The Customer shall be under a duty to inform users and its own Customers of said conditions.

Our Customers should also train their employees, who are involved in placing our products with the end users, about Michelin's tire recommendations and prohibit all repairs without first demounting the tire. If in doubt, we invite you to consult our technical documentation or one of our technicians, or ultimately, our website at: www.michelinearthmover.com

FOOTNOTES

TECHNICAL DATA EARTHMOVER TIRES

1) See page **24 to 27**: *Explanations about TKPH (TMPH)*
2) See page **9**: *Explanations of the different characteristics*
3) *Explanation about rim reading*
Example: *44.00/5.0 [6.0]*
the 1st value indicates rim width (in inch)
(in this example: 44 inches)
the 2nd value indicates the height of the rim flange
(in this example: 5 inches)
the 3rd value indicates the width of the rim flange
(in this example: 6 inches)
4) See pages **122 to 134**: *Information and explanation about earthmover tire components*
5) *Increase pressure by 0.5 bar (7.25 PSI) on the loader front axle*
6) See page **133** *and in the Maintenance guide for earthmover tires page* **169** *explanation about TG rim*
7) *Tire under development*
8) *To be discontinued*
9) See page **6**: *Standardized identification codes*
10) See pages **15 to 44**: *Explanation of the various tables of load according to the use and to the tire position and how to determine pressures. It is imperative to follow the explanation given. Not to respect these instructions will result in a forfeiture of the tire.*
11) *Use only OEM front laden and rear unladen weights to determine proper inflation pressure. For undergorund machines (mine transport) use the front laden chart matching the machine speed to the Underground mining machines table on page* **10** *and apply the variation in load carrying capacity.*

TECHNICAL DATA INDUSTRIAL TIRES

1) See page **7**: *Explanations of the different characteristics*
2) See pages **162-164**: *Rim characteristics*
3) See pages **160-161**: *Tubeless Bead Seal's characteristic*
4) See pages **165**: *Tube, flap and ring's characteristic*
7) *Tire under development*
8) *To be discontinued*

CAUTION

10) *All machines fitted with XZM tires to 12.00 R 24 must not exceed 15 km (9 miles) in one hour, and peak speed is limited to 35 km/h (55 mph)*
11) *All machines fitted with 20" XZM tires must not exceed 15 km (9 miles) in one hour, and peak speed is limited to:*
35 km/h (55 mph) peak speed for Forklift truck
40 km/h (55 mph) peak speed for Terminal tractors and RORO tractors
12) *Terminal tractors fitted with X TERMINAL-T tires must not exceed 20 km (12 miles) in one hour in cyclic use, and peak speed is limited to 40 km/h (65 mph)*
13) *All machines fitted with XZM2 tires must not exceed 10 km (6 miles) in one hour in cyclic use, and peak speed is limited to 25 km/h (15 mph)*
14) *All machines fitted with XZM tires > 12.00 R 24 must not exceed 15 km (25 miles) in one hour and are limited to 25 km/h (15 mph) peak speed*
15) *Straddle carriers fitted with X-STRADDLE must not exceed 12 km (6 miles) in one hour, and peak speed is limited to 30 km/h (50 mph)*
16) *All machines fitted with X STACKER must not exceed 5 km (3 miles) in one hour in cyclic use and are limited to 25 km/h (15 mph) peak speed*
17) *Unless specific authorization given by Michelin, 18.00R25 XZM2 is not homologated on rear axles of Reach Stackers*

All MICHELIN® industrial tubeless tires marked "MAY BE USED WITH A TUBE" can be fitted with tube and flap.

All values shown in these tables are maximum, and should not be exceeded.

PLEASE NOTE

Tire load and pressure tables (pages 46 to 121)

These tables are arranged according to the various applications of earthmoving machines.

Please note that loads and pressures have been extended beyond the standardized values in the shaded boxes. These figures are given for guidance and reflect service conditions which may affect performance of MICHELIN® tires (behavior, wear...).

Note: MICHELIN® XM27™, XM47™, XCML™, XZSL® tires and those designed for special vehicles (cranes, mechanical handling equipment for instance) have their own load and pressure tables.

NOTE: This book represents Michelin's North American offering of earthmover and industrial tires. Contact Michelin® to determine if a specific tire is available.

Our recommended conditions of storage, tire selection, mounting, inflation, pressure, tire use and its limits, tire monitoring, repairs or similar interventions, and tire maintenance, as stipulated by Michelin®, must be followed and respected by our clients who in turn are held to inform the end users.

Our clients should train their employees who are involved in placing our products with the end users and prohibit all repairs (tire punctures, rim welding) without first deflating the tire, then demounting it. If in doubt, we invite you to consult our technical documentation or one of our technicians.

Please refer to the MICHELIN® B2B Portal (www.michelinb2b.com) or contact your local Michelin representative for the most up to date information.

MICHELIN
A better way forward

CONTENTS – EARTHMOVER TIRES

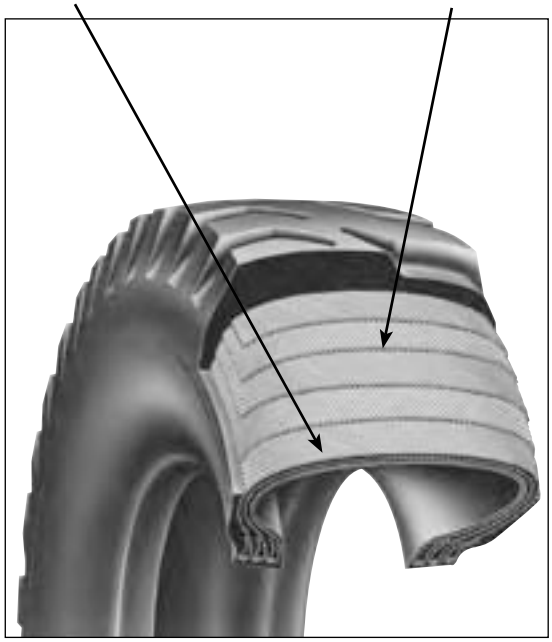
CONTENTS – MECHANICAL HANDLING

TIRE CONSTRUCTION

BIAS OR DIAGONAL PLY CONSTRUCTION

The casing is made up of several **criss-crossed fabric plies.**

The crown **is not stabilized.**



The crown and sidewalls are formed by the same ply structure. The tread is affected by flexing of the sidewalls, resulting in,
- deformation of the tire contact area on the ground
- movement in the tread contact area.

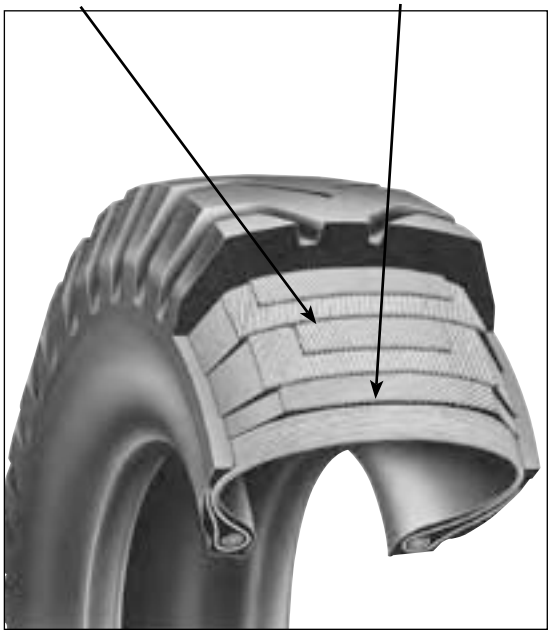
The casing plies tend to "scissor" in relation to each other.

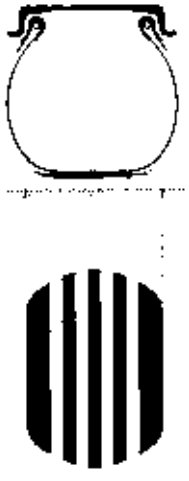
Disadvantages:
- **accelerated wear.**
- **less grip.**
- **increased fuel consumption.**

THE MICHELIN® X® RADIAL CONSTRUCTION

The crown is stabilized by **several steel plies.**

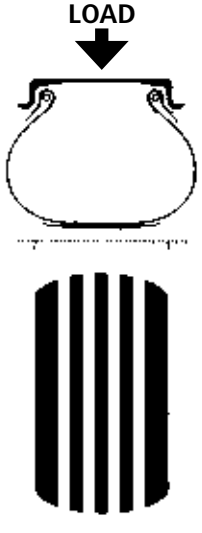
The casing has **one steel radial** ply.





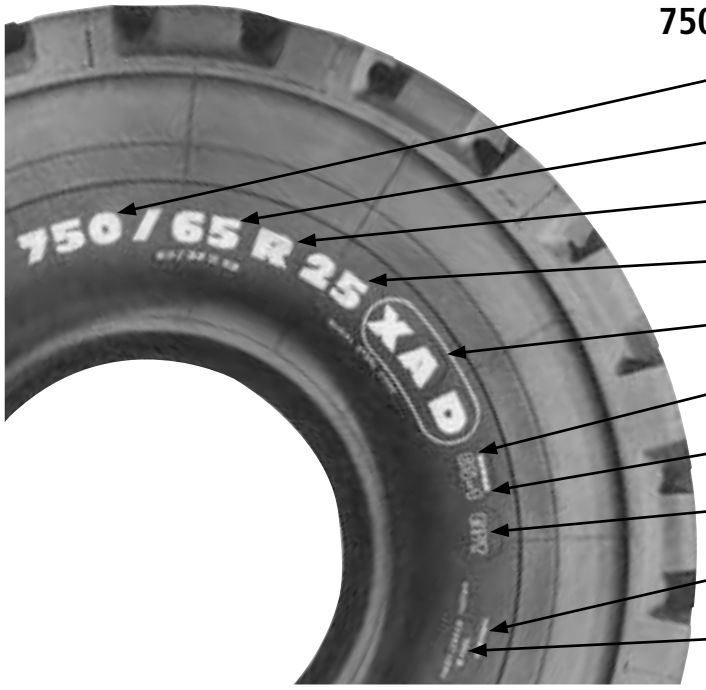
The sidewall and tread function separately.
The tread is unaffected by the flexing of the sidewalls, so there is:
- less deformation of the tire contact area on the ground.
- less movement in tread contact area.
- no movement between casing plies.

Radial Advantages:
- **longer tire life.**
- **better traction on all types of surface.**
- **lower fuel consumption due to lower rolling resistance.**
- **improved comfort.**
- **increased resistance to punctures / flats.**
- **increased resistance to heating.**



IDENTIFICATION OF MICHELIN® EARTHMOVER TIRES

EXAMPLE OF TIRE MARKINGS:



750/65 R 25 XAD 65-1 SUPER E3T TL 190B

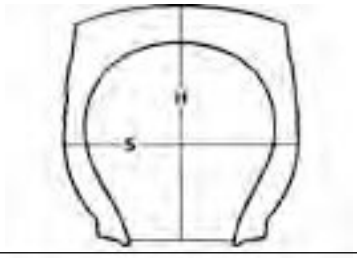
750:	Nominal section width in mm (or in inches)
65:	Aspect ratio (H/S = 0.65)
R:	Radial construction
25:	Nominal rim diameter in inches
XAD:	Tire's name
65:	65 series (H/S = 0.65)
1:	1st development of the tire
E3 T:	Standardized identification code (see p. 8)
Tubeless:	Tire without tube
190:	Tire's load index (see p. 7)
B:	Tire's speed symbol (see p. 7)

MICHELIN® Earthmover tires may have one or more stars instead of Load Index/Speed Symbol.
The type of tread rubber (A, A4, B, B4, C, C4) and the tread depth (SUPER, D1, D2) may also be shown.

DIFFERENT EARTHMOVER TIRE FAMILIES

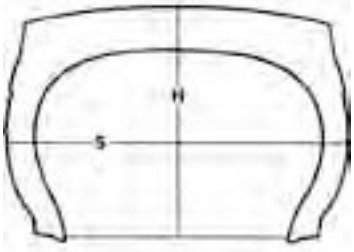
There are 3 major earthmover tire families categorized by the aspect ratio **H/S**:
(The ratio between the sidewall height and the tire section width).

H/S = 1.0



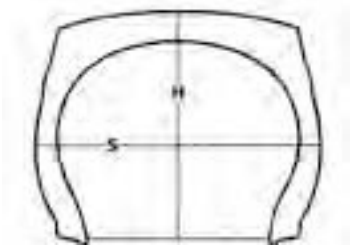
Standard Profile
The **H/S** aspect ratio is approximately equal to **1.0**
The section width, given in inches, is to 2 decimal places.
e.g.: **18.00 R 33**
7.50 R 15

H/S = 0.80



Wide Base
The **H/S** aspect ratio is approximately equal to **0.80**
The section width, given in inches, is a whole number followed by **0.5 or 0.25**.
e.g.: **20.5 R 25**
59/80 R 63

H/S = 0.65

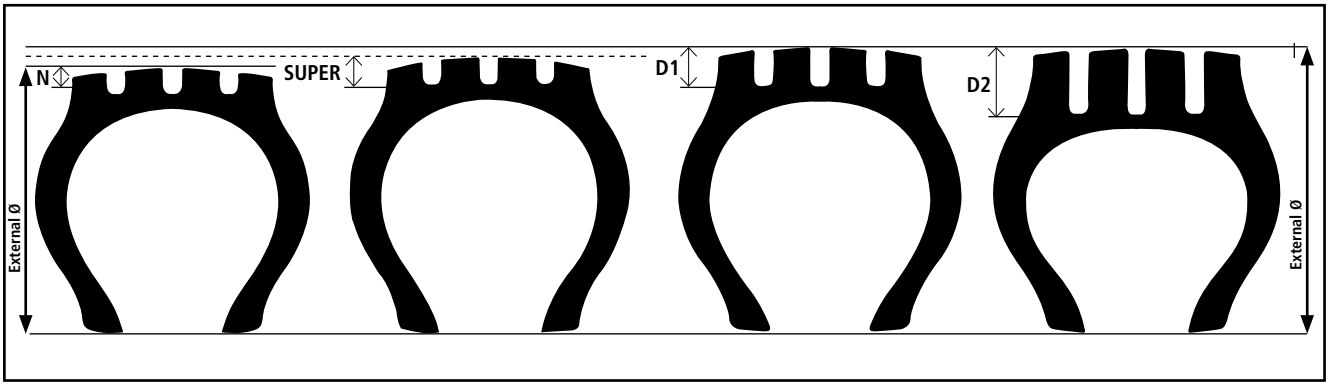


65 series
The **H/S** aspect ratio is approximately equal to **0.65**
The section width is given in inches or in millimeters followed by the number 65.
e.g.: **35/65 R 33**
750/65 R 25

IDENTIFICATION OF MICHELIN® EARTHMOVER TIRES

DIFFERENT TREAD DEPTHS

Earthmover tires can be classified by their different tread depths, usage and service conditions.



(E2 - E3 - L2 -L3 - G2 - G3)
Traction, rock
Michelin® designation:
N (Normal)
e.g.: XADN®

(SUPER E3, SUPER L3)
Traction, rock
Michelin® designation:
SUPER
(N < SUPER < D1)

(E4 - L4 - G4)
Rock,
deep tread
Michelin® designation:
D1 ≅ N x 1.5

(L5)
Rock,
extra deep tread
Michelin® designation:
D2 ≅ N x 2.5

CLASSIFICATION OF EARTHMOVER TIRES

USE CODE:
- **C** : Compactor
- **E** : Earthmover
- **G** : Grader
- **L** : Loader and Dozer

INDEX:
- **S** : Smooth (Mine, Hard Ground)
- **1** : Ribbed (Smooth Surfaces)
- **2** : Traction (Regular)
- **3** : Rock (Regular)
- **4** : Rock (Deep Tread)
- **5** : Rock (Extra-Deep Tread)

STANDARDIZED IDENTIFICATION CODE			
CODE	TREAD PATTERN	APPLICATION	THE MICHELIN® TIRE THAT ENSURES EQUIVALENT SERVICE
C1	Smooth	Compactor	X LISSE COMPACTEUR
E2	Traction	Transport	XVC, XMH S, X SNOPLUS 170E, XGC, X-CRANE AT
E3	Rock	Transport	XADN, XAD 65-1 SUPER E3, XTS, XK A, XDC, XDR S, XMS, X-TRACTION S, X-STRADDLE
E4	Rock (Deep Tread)	Transport	XHD1, X SUPER TERRAIN AD, XKD1, X-HAUL, X-HAUL S, XDT, X-QUARRY S, XDR, XRS, X-TRACTION
G2	Traction	Grader	XGLA2, X SNOPLUS M&S, XTLA
L2	Traction	Loader/Dozer	XGLA2, X SNOPLUS M&S, XTLA, XF
L3	Rock	Loader/Dozer	XHA, XHA 2, XLD L3, XRDN A, XZSL, XK A
L4	Rock (Deep Tread)	Loader/Dozer	XLD D1
L5	Rock (Extra-Deep Tread)	Loader/Dozer	XLD D2, X MINE D2
L5S	Smooth (Extra-Deep Tread)	Loader/Dozer	XSM D2+

MICHELIN® complementary identification: T = Traction, R = Rock, V = Speed, F = Flotation, P = Multi-purpose, S/R = Smooth/Rock.
e.g.: L4T Rock tire (L4; Standardized identification code) where traction is needed (T; Michelin® code).

LOAD INDEX – SPEED SYMBOL

Some tires have a load index and a speed symbol.

LOAD INDEX (LI) AND MAXIMUM LOAD (KG/LB)

The LOAD INDEX is a numerical code which indicates the maximum load a tire can carry at the speed corresponding to its speed symbol, under specified conditions.

LI	maximum load		LI	maximum load		LI	maximum load		LI	maximum load		LI	maximum load	
	lb	kg		lb	kg		lb	kg		lb	kg		lb	kg
120	3,090	1,400	**150**	7,390	3,350	**180**	17,640	8,000	**210**	41,890	19,000	**240**	99,210	45,000
121	3,200	1,450	**151**	7,610	3,450	**181**	18,190	8,250	**211**	43,000	19,500	**241**	101,960	46,250
122	3,310	1,500	**152**	7,830	3,550	**182**	18,740	8,500	**212**	44,100	20,000	**242**	104,720	47,500
123	3,420	1,550	**153**	8,050	3,650	**183**	19,290	8,750	**213**	45,420	20,600	**243**	107,470	48,750
124	3,530	1,600	**154**	8,270	3,750	**184**	19,840	9,000	**214**	46,750	21,200	**244**	110,250	50,000
125	3,640	1,650	**155**	8,540	3,875	**185**	20,390	9,250	**215**	48,070	21,800	**245**	113,540	51,500
126	3,750	1,700	**156**	8,820	4,000	**186**	20,940	9,500	**216**	49,390	22,400	**246**	117,950	53,000
127	3,860	1,750	**157**	9,090	4,125	**187**	21,500	9,750	**217**	50,700	23,000	**247**	120,150	54,500
128	3,970	1,800	**158**	9,370	4,250	**188**	22,050	10,000	**218**	52,040	23,600	**248**	123,480	56,000
129	4,080	1,850	**159**	9,650	4,375	**189**	22,710	10,300	**219**	53,580	24,300	**249**	127,890	58,000
130	4,190	1,900	**160**	9,920	4,500	**190**	23,370	10,600	**220**	55,120	25,000	**250**	132,300	60,000
131	4,300	1,950	**161**	10,200	4,625	**191**	24,030	10,900	**221**	56,780	25,750	**251**	135,580	61,500
132	4,410	2,000	**162**	10,470	4,750	**192**	24,690	11,200	**222**	58,430	26,500	**252**	138,890	63,000
133	4,540	2,060	**163**	10,750	4,875	**193**	25,360	11,500	**223**	60,070	27,250	**253**	143,300	65,000
134	4,670	2,120	**164**	11,020	5,000	**194**	26,020	11,800	**224**	61,740	28,000	**254**	147,710	67,000
135	4,810	2,180	**165**	11,350	5,150	**195**	26,790	12,150	**225**	63,940	29,000	**255**	152,120	69,000
136	4,940	2,240	**166**	11,690	5,300	**196**	27,560	12,500	**226**	66,150	30,000	**256**	156,530	71,000
137	5,070	2,300	**167**	12,020	5,450	**197**	28,330	12,850	**227**	67,790	30,750	**257**	160,930	73,000
138	5,200	2,360	**168**	12,350	5,600	**198**	29,100	13,200	**228**	69,460	31,500	**258**	165,340	75,000
139	5,360	2,430	**169**	12,790	5,800	**199**	29,990	13,600	**229**	71,660	32,500	**259**	170,660	77,500
140	5,510	2,500	**170**	13,230	6,000	**200**	30,870	14,000	**230**	73,870	33,500	**260**	176,400	80,000
141	5,680	2,575	**171**	13,560	6,150	**201**	31,970	14,500	**231**	76,070	34,500	**261**	181,880	82,500
142	5,840	2,650	**172**	13,890	6,300	**202**	33,070	15,000	**232**	78,280	35,500	**262**	187,390	85,000
143	6,010	2,725	**173**	14,330	6,500	**203**	34,180	15,500	**233**	80,480	36,500	**263**	192,900	87,500
144	6,170	2,800	**174**	14,770	6,700	**204**	35,280	16,000	**234**	82,690	37,500	**264**	198,450	90,000
145	6,390	2,900	**175**	15,210	6,900	**205**	36,380	16,500	**235**	85,430	38,750	**265**	203,920	92,500
146	6,610	3,000	**176**	15,650	7,100	**206**	37,480	17,000	**236**	88,200	40,000	**266**	209,440	95,000
147	6,780	3,075	**177**	16,090	7,300	**207**	38,590	17,500	**237**	90,940	41,250	**267**	214,950	97,500
148	6,950	3,150	**178**	16,530	7,500	**208**	39,690	18,000	**238**	93,710	42,500	**268**	220,500	100,000
149	7,170	3,250	**179**	17,090	7,750	**209**	40,790	18,500	**239**	96,470	43,750	**269**	227,370	103,000

SPEED SYMBOLS

The SPEED SYMBOL indicates the maximum speed at which a tire can carry a load corresponding to its load index, under specified conditions.

Symbol	A2	A3	A4	A5	A6	A8	B	C	D	E	F	G
speed (km/h)	10	15	20	25	30	40	50	60	65	70	80	90
speed (mph)	6	9	12	15	19	25	31	37	40	43	50	56

Examples of tire marking:
23.5 R 25 X-SUPER TERRAIN AD TL 185 B; this tire is able to carry 9250 kg at a speed of 50 km/h (20390 lb at 30 mph)
445/95 R 25 TL 177E; this tire is able to carry 7000 kg at a maximum speed of 70 km/h (16097 lb at 45 mph)

It is imperative:
- do not exceed the maximum permitted speed of the tire.
- do not exceed the maximum permitted distances in one hour indicated in the tables of tires' characteristics.
- At the time of fitting, it is vital that the various markings be verifies, in order to be certain that the tire is suitable for operation at the maximum allowed vehicle speed and load.

IDENTIFICATION OF MICHELIN® EARTHMOVER TIRES

MAXIMUM PLY RATING (PR) AND CORRESPONDING STAR (*) MARKING

Sizes and Markings	Work machines PR	Transport machines PR
7.50 R 15	12	
8.25 R 15	12	
27x8.50 R 15		
10.00 R 15		
350/65 R 15 (1)		
14.5 R 15		
400/80 R 15 (1)		
10 R 16.5		
12 R 16.5		
18 R 19.5 *	16	
9.00 R 20	16	
10.00 R 20	16	
C20 Pil (11/80 R 20) (1)		
12.00 R 20	18	
E20 (13/80 R 20) (1)		
14.00 R 20 (1)		
16.00 R 20		
525/70 R 20.5		
24 R 20.5		
24 R 21		
15 R 22.5 *	16	
18 R 22.5 *	16	
12.00 R 24 ***	24	24
13.00 R 24 TG *	14	
14.00 R 24 TG *	16	
14.00 R 24*	24	
14.00 R 24 ***	28	32
15.00 R 24 (17/80 R 24) (1)		
16.00 R 24 TG *	16	
16.00 R 24 **		36
555/70 R 24 TG * (1)		
13.00 R 25 ***		28
14.00 R 25 ***		32
15.5 R 25 *	16	
16.00 R 25 **		36
17.5 R 25 *	16	
17.5 R 25 **	20	24
18.00 R 25 *	24	
18.00 R 25 **		36
20.5 R 25 *	24	
20.5 R 25 **		28
550/65 R 25 * (1)		
21.00 R 25 **		40
23.5 R 25 *	28	
23.5 R 25 **		32
600/65 R 25 * (1)		
25/65 R 25 **		32
650/65 R 25 (1)		
26.5 R 25 *	32	
26.5 R 25 **		32
750/65 R 25 (1)		
29.5 R 25 *	34	
29.5 R 25 **		34
850/65 R 25 (1)		
26.5 R 29 **		34
775/65 R 29 (1)		
29.5 R 29 *	34	
29.5 R 29 **		40
30/65 R 29 *	28	
33.25 R 29 **		44
800/65 R 29 * (1)		
875/65 R 29 (1)		
18.00 R 33 **		40
21.00 R 33 **		32
33.5 R 33 **		44
35/65 R 33 *	36	
35/65 R 33 **		
37.5 R 33 **		48
21.00 R 35 **		44
24.00 R 35 **		48
29.5 R 35 **		40
33.25 R 35 **		44
37.25 R 35 **		48
37.5 R 39 **		52
40/65 R 39 *	42	
40.5/75 R 39 **		54
45/65 R 39 * (1)		
45/65 R 45 *	50	
24.00 R 49 **		48
27.00 R 49 **		54
31/80 R 49 ** (1)		
30.00 R 51 **		64
33.00 R 51 **		68
36.00 R 51 **		74
27.00 R 56.5 ** (1)		
37.00 R 57 ** (1)		
40.00 R 57 **		78
44/80 R 57 ** (1)		
50/80 R 57 ** (1)		
55/80 R 57 * (1)		
50/90 R 57 ** (1)		
60/80 R 57 (1)		
53/80 R 63 ** (1)		
55/80 R 63 ** (1)		
58/80 R 63 ** (1)		
56/80 R 63 ** (1)		
59/80 R 63 ** (1)		

(1) no corresponding PR in these sizes which are only made in radial construction.

DIFFERENT TREAD COMPOUNDS

Type A4: Exceptionally resistant to cuts, tread tearing and abrasion on very rough surfaces.

Type A: Highly resistant to cuts, tread tearing and abrasion at average speeds which are higher than those for A4.

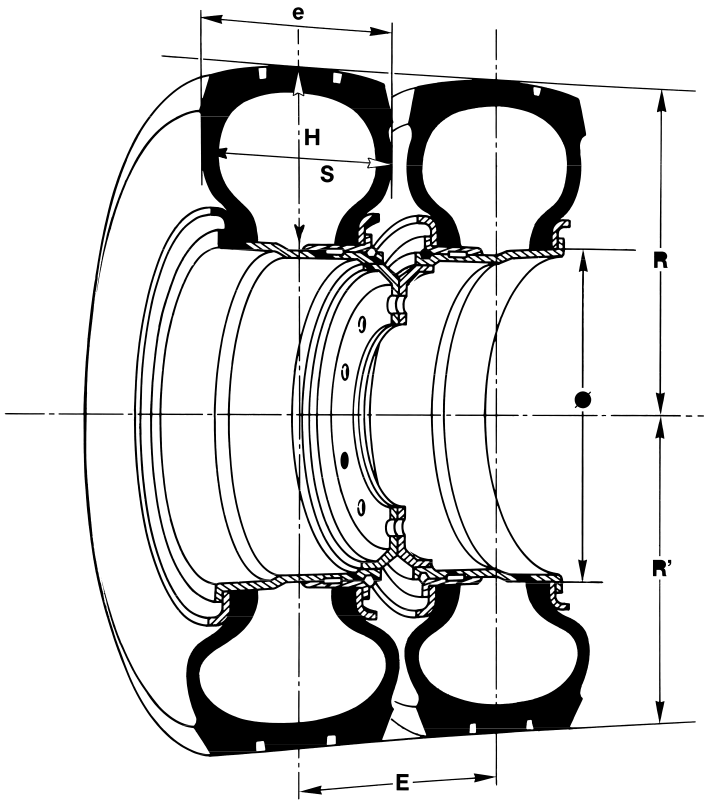
Type B4: Blended solution between abrasion resistance and average speed on rough surfaces.

Type B: Higher resistance to internal heat generation on surfaces which are not particularly rough.

Type C4: Developed for running on long cycles at high speeds on well maintained roads.

Type C: Designed for the most heat resistance on long cycles and well maintained roads.

EXPLANATION OF DIFFERENT MEASUREMENTS



e = maximum overall section width
D = external tire diameter (R x 2)
Ø = Nominal bead seat diameter or rim diameter
S = section width on measuring rim
(this rim is indicated in bold)
E = minimum dual spacing (on measuring rim)
H = section height
R = free radius (2R = D)
R' = static laden radius*
RC = rolling circumference*
Tread depth = tire tread depth in mm (rubber depth that is possible to use without risk)
Cap = Interior capacity of the tire
(to calculate the nitrogen quantity when inflated with nitrogen, or the liquid quantity when filled)

* The values of R' and rolling circumference given for MICHELIN® tires on the characteristic pages apply to nominal conditions of load and pressure (shown in the shaded boxes of the load data).

The dimensions shown in this documentation correspond with that indicated above and follow the existing standards (ETRTO, ...).
The standardized dimensions shown are the "maximum in service".
The dimensional data is given for information purposes only and may change. It cannot be used for any legal purposes.

How to read the load / pressure table
Remember: the correct pressure of the machine (on a site and for a job) depends on the working conditions and use.

In order to obtain the optimal performance from tires, it is advised that:
- the machine be weighed under working loads
- the maximum distance allowed per hour for the tire is not exceeded

Maximum distance limit
This is the result of the combination load /pressure which allows an economic use of the tire.
There is: - a limit on the load to obtain the best wear performance
- a limit on the pressure to obtain the best damage resistance (cuts, shocks, wear, etc)

The economic load and pressure limits are shown in shaded boxes in the load/pressure table.
Generally, these are the nominal conditions for the tire as defined in International Standards.

**It is possible to use our tires outside of the economic limits,
so long as the maximum values indicated in the load/pressure tables are not exceeded.
However, using the tires beyond their economic load values is likely to result in a reduction of the life and damage resistance of the tire.**

EXPLANATION OF THE SERVICE CONDITIONS

Loaders:

Front Tipping — This table is used when the only information available is that of the operating weight and tipping load of the loader.

Front Laden — This is the primary table to be used. The loads come from weighing the loader or axle weight given by the manufacturer. **The load/pressure table, using "10 km/h (6 mph) loaders" as a reference, is given in international standards.**

Rear Unladen — This table is used when the weight of the rear axle of the unladen loader is known or when the rear axle weight is given by the manufacturer.

Compactor:

10 and 15 km/h
6 and 9 mph — These tables are given according to the maximum work speeds of the compactors. In all cases, the specifications and instructions provided by the manufacturer must be used. (Table indicating the pressure according to the work to be performed).

Underground Mining Machines:

All axles — Loaders: use the tables. The loads come from the weighing of the loader or the axle weight given by the manufacturer. **The load/pressure table, using "10 km/h (6 mph) loaders" as a reference, is given in international standards.**

Transport machines: For underground transport machines, the table corresponds to a maximum speed of 10 km/h (6 mph). For different speeds, the load capacity is adapted by applying the coefficients defined by the international standards (see table below).

Maximum loaded speed (km/h / mph)	Variation in load capacity (%)
static	+ 60
Creep 60m (197 ft) in 30 minutes	+ 30
4 / 3	+ 15
10 / 6	0
15 / 9	- 13
25 / 15	- 20
> 25 / > 15	Consult Michelin®

Skid Steer:

All axles — This table is used when the axle weight has been determined (by weighing or with the manufacturer's data).

Backhoes:

Cyclic — This table is used for repeated cycles over short distances (600 m / 1969 ft maximum) at a maximum speed of 10 km/h (6 mph).

10 km/h / 6 mph — This table is used when the machine has been weighed with a full front axle bucket.

20, 30, 40 km/h
12, 18, 24 mph — This table is used when the machine has been weighed with an empty rear axle bucket at the maximum speed of the machine.

Excavators:

10 20, 30, 40 km/h
6, 12, 18, 24 mph — This table is used when the axle weights have been determined (by weighing or with the manufacturer's data).

Graders:

All axles (maximum speed of 40 to 65 km/h 24 to 40 mph) — This table is used when the axle weight has been determined (by weighing or with the manufacturer's data). For different speeds, the load capacity will be adapted by applying the coefficients defined by the international standards. (see table TRA 2008 4-15).

Maximum loaded speed (km/h / mph)	Variation in load capacity (%)
40 / 24	0
50 / 30	- 9
60 / 37	**-18**
65 / 40	- 27

EXPLANATION OF THE SERVICE CONDITIONS

Transport, Rigid Dump Trucks, Articulated Dump Trucks, Scrapers (Trucks, etc.):

Standard

This table is used when the work is performed at loaded speeds up to 50 km/h (30 mph).
This is standardized under the name "Transport 50 km/h (30 mph)" (pages 46-121)**.**
For different speeds, the load capacity will be adjusted by using the table below. (International standards ETRTO 2008 E.7).
The gray box indicates the nominal condtitions for the tire.

Maximum loaded speed (km/h / mph)	Variation in load capacity (%)
< 15 / <9	Consult Michelin®
15 / 9	+ 12
20 / 12	+ 10
25 / 15	+ 8
30 / 18	+ 6
35 / 22	+ 4
40 / 24	+ 3
45 / 28	+ 2
50 / 30	**0**
55 / 34	- 2
60 / 37	- 6
65 / 40	- 12
> 65 / > 40	Consult Michelin®

Quarry

This table is used when maximum speed does not exceed 30 km/h / 19 mph.

Crane (Highway service):

Speed Symbol E (70 km/h / 43 mph), Speed Symbol F (80 km/h / 50 mph).
All earthmover tires fitted on vehicles with a predominant road usage (all terrain vehicles, cranes, intervention vehicles, etc.) that are driven on roads for long distances at the speed of reference and under constant load.
The Loads / Speeds / Pressures table makes it possible to adapt the pressure to the wanted load according to principal speeds of use.

43 mph (70 km/h)

This table is used for the vehicles at speeds of up to 43 mph / 70 km/h, (tires of index speed E).
As an example, see the E speed rated tires on page 44.

Desert conditions 80 km/h (50 mph):

See page 15 for more information on inflation pressure

Depending on whether the vehicle is fitted single or dual, the corresponding load table will be adopted.
Road (Road in single / Road in dual): These pressures are to be applied when the vehicle runs on good roads (This means asphalt or compacted surfaces). For these conditions the pressures have been calculated for a maximum speed of 80 km/h (50 mph).
Track (Track in single / Track in dual): These pressures are recommended for driving on bad roads, washboard (corrugated) and gravel or desert surfaces. For these conditions the pressures have been calculated for a maximum speed of 65 km/h (40 mph).
Sand (Sand in single / sand in dual): These pressures are used to allow the vehicle to cross without difficulty the difficult areas where the problem of adherence or depression can be important. To avoid premature depletion of the kilometric performance, the speed must be limited to 20 km/h (12.5 mph).
After "sand" use, the pressure must be readjusted for subsequent conditions of use (road or track).

Desert conditions 65 km/h (40 mph):

See page 15 for more information on inflation pressure

Depending on whether the vehicle is fitted single or dual, the corresponding load table will be adopted.
Road (Road in single / Road in dual): These pressures are to be applied when the vehicle runs on good roads (This means asphalt or compacted surfaces). For these conditions the pressures have been calculated for a maximum speed of 65 km/h (40 mph).
Track (Track in single / Track in dual): These pressures are recommended for driving on bad roads, washboard (corrugated) and gravel or desert surfaces. For these conditions the pressures have been calculated for a maximum speed of 50 km/h (30 mph).
Sand (Sand in single / sand in dual): These pressures are used to allow the vehicle to cross without difficulty the difficult areas where the problem of adherence or depression can be important. To avoid premature depletion of the kilometric performance, the speed must be limited to 15 km/h (9 mph).
After "sand" use, the pressure must be readjusted for subsequent conditions of use (road or track).

MICHELIN® EARTHMOVER TIRE RANGE

MICHELIN® XGLA2™

The L2/G2 MICHELIN® radial tire designed with aggressive, non-directional tread to give graders maximum traction.

MICHELIN® X SNOPLUS® M&S

The all-season MICHELIN® radial tire designed for use on graders and loaders where exceptional traction on snow and ice is required.

MICHELIN® XTLA™

The MICHELIN® L2/G2 radial tire designed to provide exceptional traction and long, even treadwear on loaders and graders.

MICHELIN® XHA™

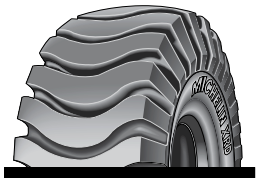
The versatile MICHELIN® L3 radial tire designed for loaders, graders and other equipment used in construction, stockpile and truck-loading applications.

MICHELIN® XHA™ 2

The all-new MICHELIN® radial loader tire with reinforced side-wall construction and deeper, patented tread design provides excellent damage resistance, enhanced traction and reduced vibration for construction and quarry applications.

MICHELIN® XLD® L3

The technologically advanced, low-profile MICHELIN® radial tire for small and medium loaders engineered to substantially increase productivity in moderately abrasive conditions.



MICHELIN® XRDN™ A

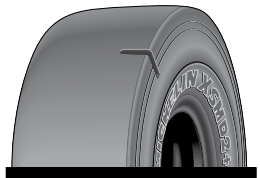
The MICHELIN® radial tire designed to deliver extra protection and a high level of performance on wheel loaders.

MICHELIN® XLD® D1/D2

The directional MICHELIN® L4/L5 radial tire for wheel loaders designed to provide high levels of stability, traction and protection combined with a cushioned ride for operator comfort.

MICHELIN® X MINE® D2

The rugged MICHELIN® super L5 traction radial designed to give maximum protection in severe hard rock quarries, underground mines, scrap and solid waste applications.



MICHELIN® XSM® D2+

The super deep, smooth MICHELIN® radial tire designed for maximum wear and reliability on wheel loaders and haulers working in severe mining, quarry and waste-handling conditions.

MICHELIN® XMCL™ *

The MICHELIN® radial designed to optimize performance on high usage Compact Line construction and utility equipment ranging from backhoe loaders, telescopic handlers, skid-steer loaders and other material handling machines.

MICHELIN® XM27™ *

The rugged MICHELIN® R4 radial tire for backhoes and loaders designed to provide excellent traction both on- and off-road.

MICHELIN® XM47™ *

The MICHELIN® R4 radial high-speed tire designed to operate at elevated speeds and loads with excellent traction and mobility.

MICHELIN® XZSL® *

The MICHELIN® radial tire designed to provide superior performance on small construction and skid-steer equipment.

MICHELIN® XVC™

The MICHELIN® E2 radial tire designed especially for high-speed applications on well-maintained site roads.

MICHELIN® XHD1™

The MICHELIN® E4 radial tire designed for transport applications.

MICHELIN® XADN®

The MICHELIN® E3 radial tire for articulated trucks designed to deliver exceptional reliability in a variety of applications.

MICHELIN® X® SUPER TERRAIN AD

The MICHELIN® E4 radial tire for articulated dump trucks engineered to deliver long life, maximized protection and excellent traction in a variety of demanding applications.

MICHELIN® XAD™ 65-1 SUPER E3

The MICHELIN® Super E3 low-profile, low-pressure radial tire designed to deliver excellent flotation, lateral stability and traction for articulated dump trucks.

MICHELIN® XTS®

The MICHELIN® E3T radial tire for mid-size scrapers engineered to provide exceptionally long life, excellent resistance to damage and enhanced traction.

* Indicates tires for compact line equipment

MICHELIN® EARTHMOVER TIRE RANGE

MICHELIN® XK®

The MICHELIN® radial tire designed to deliver maximum protection in severe transport and abrasive underground mining conditions.

MICHELIN® XKD1™

The MICHELIN® radial E4 tire for use on haul trucks in the most demanding mine and quarry conditions.

MICHELIN® X-HAUL®

The MICHELIN® E4 radial tire for haul trucks designed to provide excellent protection and long wear in harsh conditions.

MICHELIN® X-HAUL® S

The MICHELIN® E4 radial tire for haul trucks operating at high speeds designed to provide excellent protection and long wear in harsh conditions.

MICHELIN® XDT™

The MICHELIN® E4 radial tire for haul trucks designed to provide excellent adhesion and traction in severe conditions.

MICHELIN® X-QUARRY® S

The extremely durable MICHELIN® E4 radial tire designed for use on haul trucks running at average speeds in the most damaging quarry conditions.

MICHELIN® XDR™

The MICHELIN® radial E4 tire for haul trucks designed to deliver long life, maximum protection and excellent traction in the most severe mine and quarry conditions.

MICHELIN® XDR™ S

The MICHELIN® radial tire for haul trucks designed to deliver long life and excellent traction in long-haul, high-speed applications.

MICHELIN® XDM™

The MICHELIN® radial tire for haul trucks designed to deliver low operating costs in applications requiring a unique combination of traction, speed and protection.

MICHELIN® XMS™

The MICHELIN® E3 radial tire for large scrapers designed to deliver excellent traction, superior damage resistance and a smooth ride.

MICHELIN® XRS™

The non-directional MICHELIN® radial tire for large scrapers designed to provide excellent longitudinal/lateral traction and exceptional tread and sidewall cut protection.

MICHELIN® X-TRACTION™

The MICHELIN® radial tire engineered to deliver excellent traction on soft surfaces.

MICHELIN® X-TRACTION™ S

The MICHELIN® radial tire engineered to deliver excellent traction on soft surfaces.

MICHELIN® STABIL'X® X STACKER™

The long-lasting MICHELIN® radial tire designed to increase the productivity of reach stackers in difficult to extremely severe working conditions.

MICHELIN® X-STRADDLE®

The long-lasting MICHELIN® radial tire for straddle carriers designed to deliver even treadwear and low operating costs in demanding port and terminal conditions.

MICHELIN® X-TERMINAL T™

The long-lasting MICHELIN® radial tire for terminal tractors designed to deliver even treadwear and low operating costs in demanding port and terminal conditions.

MICHELIN® STABIL'X® XZM™

The rugged pneumatic MICHELIN® radial tire designed for forklift trucks, terminal tractors and other industrial equipment used in heavy-duty applications.

MICHELIN® STABIL'X® XZM™ 2

The rugged MICHELIN® industrial tire designed for high-load capacity material handling equipment.

MICHELIN® XF™

The MICHELIN® radial tire with aggressive directional tread designed to deliver exceptional traction and performance for rough-terrain forklifts and excavators.

MICHELIN® X® LISSE COMPACTEUR™

The smooth MICHELIN® radial tire designed for compactors used in paving and asphalt applications.

MICHELIN® XMH™ S

The MICHELIN® radial tire for logging & transport operations designed to deliver excellent wear resistance and cooler operating temperatures in high-speed applications.

MICHELIN® X SNOPLUS® 170E

The MICHELIN® radial tire for logging operations and mobile cranes where excellent traction on snow and ice is required.

MICHELIN® XGC®

The MICHELIN® radial tire for logging operations and mobile cranes where excellent traction on snow and ice is required.

MICHELIN® X-CRANE AT™

The non-directional MICHELIN® radial tire designed to deliver exceptional operator comfort and durability in high-speed and demanding on- and off-road applications.

MICHELIN® XZR

The MICHELIN® ZXR radial tire for airport support equipment, sweepers, and forklifts with an exceptional total cost of ownership.

MICHELIN® EARTHMOVER TECHNICAL DATA BOOK

TIRES FOR USE IN DESERTS AND SIMILAR CONDITIONS

These tires are used on machines that are operated in special conditions, such as sand, desert regions, etc.

THE TREAD

The tire tread is exceptionally broad and has been designed for use in sand. With its track-laying action, free from unwanted movement within the tire's contact area with the ground, the top layer of sand or soil is not broken up. As a result the grip is improved and digging in of the tire is minimized.

THE RADIAL CASING

The casing has been designed to withstand heavy loads at the relatively low pressure required for work **on yielding surfaces**. Low pressures are needed to obtain the largest possible area of tire contact with the ground and the lowest possible ground contact pressure.

The flexible casing minimizes vibration and the damage which might be caused by driving **on washboard (corrugated) surfaces** or **bad tracks** and is particularly resistant to this type of stress.
This type of casing allows relatively high speeds on roads.

TIRE LOADS GIVEN FOR MICHELIN® XS AND MICHELIN® X "RIB"

These tires have two maximum loads which depend upon service conditions:

- First, there is a load limit shown in bold type for tough-going sand and track conditions **(in the load/pressure table).**
  Numerous tests in desert conditions have confirmed that these loads must not be exceeded if optimum tire performance is to be maintained. However, should there be no obstacles to be overcome on rough terrain, this limit can be increased to the maximum "Road" load, provided that the inflation pressure is raised at the same time, even though track speed conditions remain the same.
- Second, there is a higher load limit for road service where flotation is not an issue.

INFLATION PRESSURE

Three different pressures are indicated. They depend upon the load per axle and working conditions:

ROAD:
These pressures are to be applied when the vehicle runs on good roads. This means asphalt or compacted surfaces.
For these conditions the pressures have been calculated for a maximum speed of:
- **65 km/h (40 mph)** for the sizes 18.00 R 25 XS TL, 21.00 R 25 XS TL, 21.00 R 25 X RIB TL and 29.5 R 25 XS
- **80 km/h (50 mph)** for the sizes 525/65 R 20.5 XS TL, 24 R 20.5 XS TL, 24 R 21 X RIB TL and 14.00 R 24 XS.

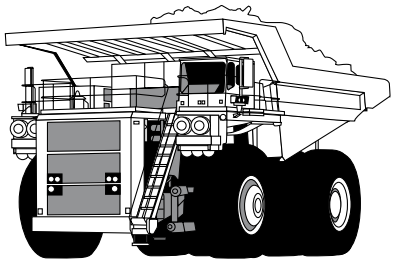
TRACK:
These pressures are recommended for driving on bad roads, washboard (corrugated surfaces) and gravel or desert surfaces.
For these conditions the pressures have been calculated for a maximum speed of:
- **50 km/h (30 mph)** for sizes 18.00 R 25 XS TL, 21.00 R 25 XS TL, 21.00 R 25 X RIB TL and 29.5 R 25 XS
- **65 km/h (40 mph)** for sizes 525/65 R 20.5 XS TL, 24 R 20.5 XS TL, 24 R 21 X RiB TL, 14.00 R 24 XS.

SAND:
At these pressures the XS or X RIB are able to traverse the majority of sand banks.
For these conditions the pressures have been calculated for a maximum speed of:
- **15 km/h (9.3 mph)** for sizes 18.00 R 25 XS TL, 21.00 R 25 XS TL, 21.00 R 25 X RIB TL and 29.5 R 25 XS
- **20 km/h (12.5 mph)** for sizes 525/65 R 20.5 XS TL, 24 R 20.5 XS TL, 24 R 21 X RiB TL, 14.00 R 24 XS.

After using "sand" pressures, they must be adjusted to the correct pressure for subsequent conditions of use (road or track).

RIGID DUMP TRUCKS

I. RIGID DUMP TRUCKS

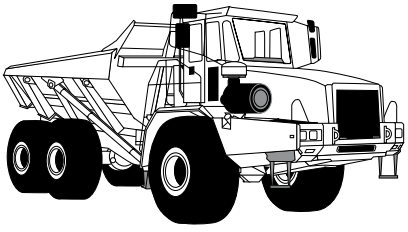


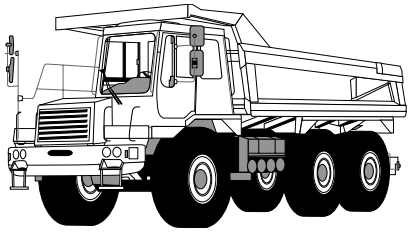
The following data needs to be established:

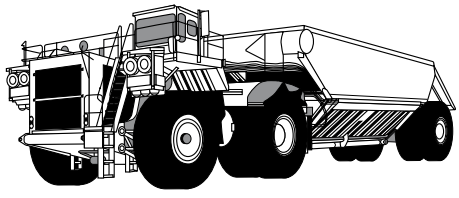
- The Gross Vehicle Weight (total machine weight in the laden condition).
- The percentage load distribution by axle.

The load per axle is calculated and divided by the number of tires to give the tire load.

II. ARTICULATED DUMP TRUCKS, BOTTOM DUMPS







The following data needs to be established:

- The Gross Vehicle Weight (total machine weight in the laden condition).
- The percentage load distribution by axle.

The load per axle is calculated and divided by the number of tires to give the tire load.

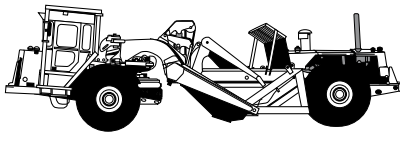
III. SIDE DUMP TRUCKS

The following data needs to be established:

- The Gross Vehicle Weight (total machine weight in the laden condition).
- The percentage load distribution by axle.

The load per axle is calculated and divided by the number of tires to give the tire load.

IV. MOTOR SCRAPERS



The following data needs to be established:

- The Gross Vehicle Weight (total machine weight in the laden condition).
- The percentage load distribution by axle

Calculate the load per axle then determine the tire weight
by dividing the axle load by the number of tires per axle.

PROCEDURE FOR DETERMINING INFLATION PRESSURES

Determine the maximum load on each tire by weighing.

This is the only way that tire pressures can be set accurately for optimum performance.

Use the tables "Tire loads and pressures" for TRANSPORT in the earthmover data book.

Quarry:
MICHELIN® X-QUARRY®:
for machines with a maximum speed between 30 and 60 km/h (19 and 37 mph).
When fitted with 16.00 R 25 MICHELIN® X QUARRY Tire, the distance run must not exceed 16 km (10 miles) in one hour.
When fitted with 18.00 R 33, 21.00 R 35 or 24.00 R 35 MICHELIN® X QUARRY, the distance run must not exceed 14 km (9 mph) in one hour.

If the machines are to be used under different speeds or conditions, apply the appropriate load/pressure table.

- Specific use

In the case of slow speed use (< 29 km/h / < 18 mph), or where the cycle length is short (< 3 km/h / 2 miles), cold tire pressures may be reduced by up to 10% for the given load in order to improve tire life and damage resistance.

In the case of increased dynamic load (downhill laden, heavy braking, tight bends, etc), it is recommended that front cold tire pressures on rigid dump trucks and scrapers be increased by 10% so long as the maximum pressure indicated in the tables is not exceeded.

When the tire is then subjected to important dynamic loading (for example for displacements on site at maximum speeds higher than 50 km/h / 30 mph), the load will be gradually reduced according to the maximum speed reached by the vehicle in any point of the operating cycle without change of pressure. Exceeding this value is likely to result in reduction in tire life and damage resistance.

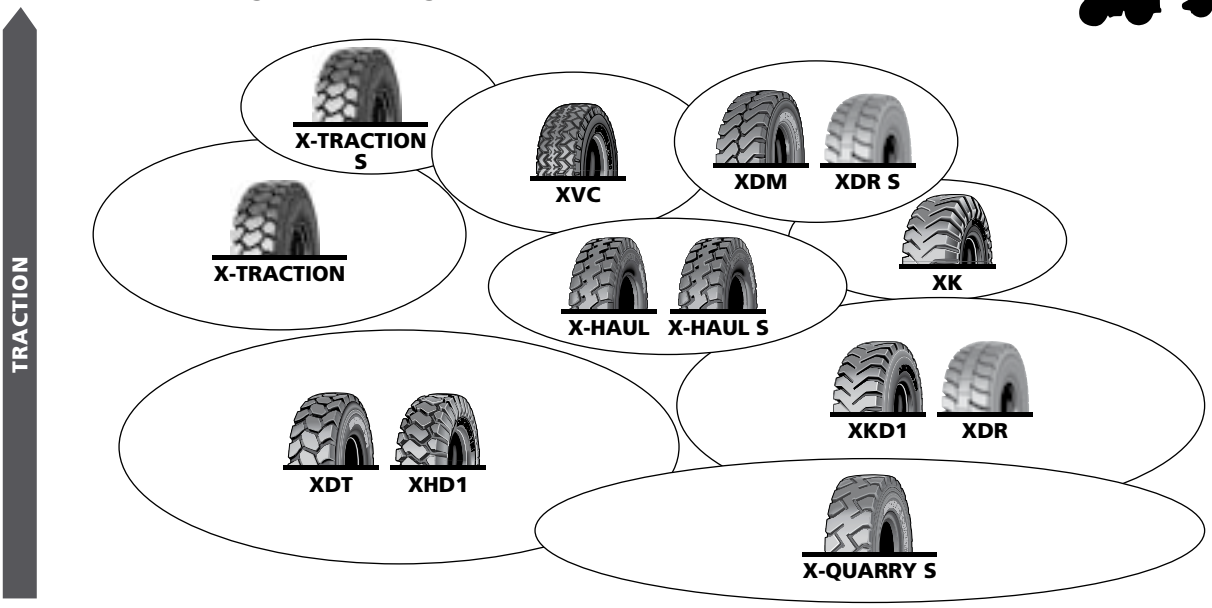
Example :

For the 27.00 R 49, the nominal condition for standard use is 27,250 kg at 6.5 bar (60,086 lb at 94 PSI)
For travel speed on site of 65 km/h (40 mph), the optimal performance would be 23,980 kg (52,875 lb) (that accounts for 12% of reduction) at 6.5 bar (94 PSI).
See table on page 11 for the % load reduction.

If it is not possible to weigh the machine, determine the maximum load per tire on each axle by calculation or by using the machine manufacturer's data.

RIGID DUMP TRUCKS, BOTTOM DUMPS

TREAD PATTERNS AND TIRES



TYPE OF SURFACE

High level of traction required. Operating surface is yielding and muddy.	Excellent operating conditions, with good roads and tracks.	Very good operating conditions. Maintained tracks but presence of stones and gravel.	Difficult operating conditions. Track conditions vary from dry to wet. Presence of stones, rocks, debris.	Very difficult operating conditions. Wet surface with presence of stones and sharp rocks.

MAIN SIZES (For characteristics see pages 46 to 121). Non Tubeless sizes are marked TT (Tube Type).

• Available

Tire Type	XVC	XK**		XDT**				X-HAUL	XHD1**	XKD1**		XDR**					XDR S		X-QUARRY S**	XDM		X-TRACTION S		X-TRACTION		
TREAD COMPOUND	**	A	C4	A4	A	B	C4		A	A	C4	A	B4	B	C4	C	B	C4		B	C4	A	B	A4	B4	B
TRA CODE	E2	E3R	E3R	E3T	E3T	E3T	E3T	E4	E4	E4R	E4R	E4R	E4R	E4R	E4R	E4R	E3	E3	E4R	E4	E3	E3	E3T	E4T	E4T	E4
Max. dist. miles in 1 h	30	20	20	11	14	19	22		14	11	17	11	14	16	17	9			9							
Max. dist. km in 1 h	50	32	32	18	22	30	35		22	18	27	18	22	26	27	14			14							
12.00 R 24		•																								
14.00 R 24		•									• (1)															
16.00 R 24																										
14.00 R 25									•																	
16.00 R 25									•																	
18.00 R 25									•		•															
21.00 R 25		•																								
18.00 R 33				•		•		•											•							
21.00 R 33								•											•							
24.00 R 35				•		•	•	•																		
27.00 R 49	•			•	•	•						•	•	•								•	•	•	•	•
30.00 R 51																										
33.00 R 51				•		•						• (3)	• (4)	• (5)	•											
36.00 R 51												• (3)	• (4)	• (5)												
37.00 R 57												• (3)	• (4)	• (5)	•					•						
40.00 R 57												• (3)	• (4)	• (5)	•	•					•					
50/80 R 57														• (5)												
50/90 R 57													• (4)	• (5)	•											
53/80 R 63			•								• (2)		• (4)	• (5)	•											
56/80 R 63													• (4)	• (5)	•											
58/80 R 63																										
59/80 R 63												• (3)	• (4)	• (5)	•		•	•								

(1) These tires are in *** (2) 28 km/18 miles in one hour (3) 16 km/10 miles in one hour (4) 20 km/18 miles in one hour (5) 24 km/15 miles in one hour

RIGID DUMP TRUCKS, BOTTOM DUMPS

TIRE SELECTION

1 - As a function of the surface (type, condition, etc.).
The chart opposite shows which type of tire should be selected according to the conditions of use.
The range is composed of six main tread compounds (see page 8 for an explanation of the different tread compounds).
These are available in tread patterns XHD1™, XDT™, XKD1™ and XDR™ to meet the specific requirements of different site conditions.

2 - As a function of the service conditions (distances, speeds, loads).
CYCLES less than 5 km (3 miles) and ambient temperature between 59 and 100 °F (15 and 38 °C).

Maximum number of kilometers / miles allowed in one hour for tires on dump trucks and bottom dumps

TIRE TYPE	Tread Compound	All wheel diameters	24 to 33 inch	35 inch	49 inch	51 inch	57 inch	57 inch (80 Series)	63 inch (80 Series)
XV	C	50 / 31							
XK	A		32 / 20						
	C4**								32 / 20
X-HAUL	A**		30 / 19						
XHD1 XDT E4T	A4**		18 / 11	18 / 11	18 / 11	18 / 11			
	A**		22 / 14			22 / 14			
	B**		30 / 19	30 / 19	30 / 19	30 / 19			
	C4**			35 / 22					
XKD1 XDR E4R	A**		18 / 11		18 / 11	16 / 10	16 / 10	16 / 10	16 / 10
	B4**				22 / 14	20 / 12	20 / 12	20 / 12	20 / 12
	B**				26 / 16	24 / 15	24 / 15	24 / 15	24 / 15
	C4**						27 / 17	28 / 18	28 / 18
	C						14 / 9		
XDM E3	B4						22 / 14		
	B						26 / 16		
	C4						30 / 19		
	C						33 / 21		
XDM E4	A						16 / 10		
	B4						20 / 12		
	B						24 / 15		
XDC E3 33.00 R 51	B4					34 / 21			
	B					39 / 24			
	C					45 / 28			
XDC E3 36.00 R 51	B4					34 / 21			
	B					37 / 23			
	C					40 / 25			
X TRACTION S	A				27 / 17				
	B				35 / 22				
X TRACTION	A4				18 / 11				
	B				30 / 19				
X-QUARRY S	**		12 / 8	14 / 9					

CYCLES greater than 5 km (3 miles) and ambient temperature greater than 100 °F (38 °C).

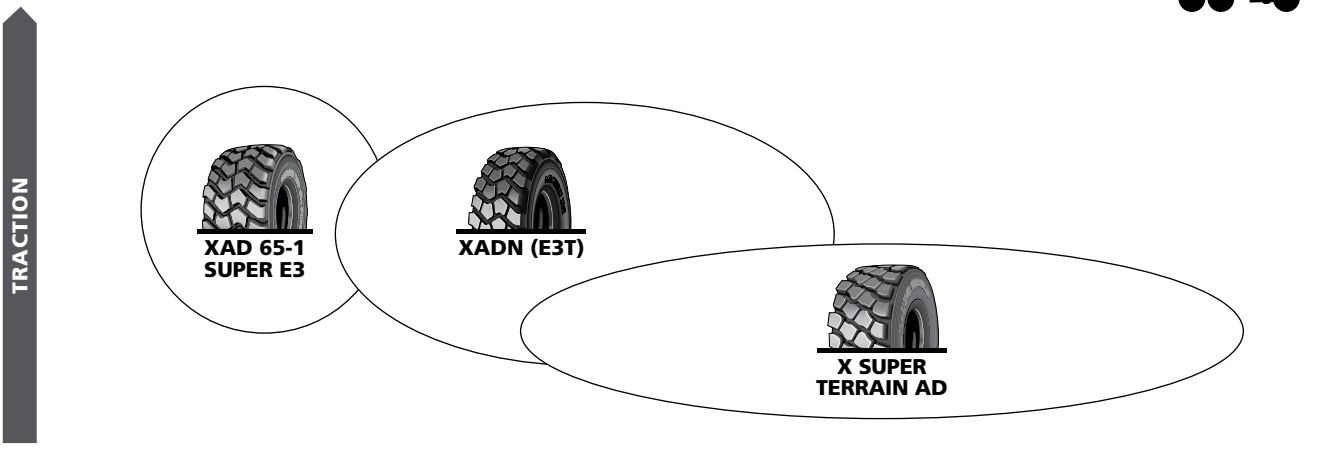
When the cycle length is greater than 3 miles (5 km) or the ambient temperature greater than 100 °F (38 °C), use the method specified to calculate the TMPH (TKPH) to select the tire best suited to the application.

TMPH (TKPH) is an expression of the working capacity of a tire and is a function of the maximum allowed internal operating temperature of a tire. (For method of determining TMPH (TKPH) see page 24).

For XVC™ type, in the size 27.00 R 49, use the average permissible speed to determine the most appropriate tire.

ARTICULATED DUMP TRUCKS

TREAD PATTERNS AND TIRES



High level of traction and flotation required. Operating surface covered in deep mud.	High level of traction required. Operating surface is yielding and muddy.	Excellent operating conditions, with good roads and tracks.	Very good operating conditions. Maintained tracks but presence of stones and gravel.	Difficult operating conditions. Track conditions vary from dry to wet. Presence of stones rocks, debris.	Very difficult operating conditions. Wet surface with presence of stones and sharp rocks.

MAIN SIZES (For characteristics see pages 46 to 121).

Tire Type	XAD 65-1 SUPER E3	XADN	X SUPER TERRAIN AD
TRA CODE	E3T	E3T	E4
Max. dist. miles in 1 h	18	18	18
Max. dist. km in 1 h	28	28	28
23.5 R 25		185 B	185B
650/65 R 25	180 B		
26.5 R 25		193 B	193 B
750/65 R 25	190 B		
29.5 R 25		200 B	200 B
850/65 R 25	196 B		
775/65 R 29	195 B		
875/65 R 29	203 B		

ARTICULATED DUMP TRUCKS

TIRE SELECTION

1 - As a function of the surface (type, condition, etc.).
The chart on the preceeding page shows which type of tire should be selected according to the conditions of use.

2 - As a function of the service conditions (distances, speeds, loads).

Maximum number of kilometers (miles) allowed in one hour for tires on dump trucks and bottom dumps

Use the average speeds shown in the table below, without restriction on the number of cycles, provided that the standard method of operating the truck loaded one way only, empty the other, is employed.
The average speeds shown below may be exceeded for short periods, provided that the total distance covered by the truck in one hour does not exceed the value shown.

TREAD PATTERN AND TYPE	Number of kilomters / miles allowed in one hour	
	kilometers	miles
XAD 65	28	18
XADN speed E	28	18
X Super Terrain AD		
23.5 R 25	26	16
26.5 R 25	24	15
29.5 R 25	22	14

Number of km (miles) permitted in one hour for 29 inch XRB tires.**

CYCLES less than 5 km (3 miles) and ambient temperature between 59° and 100 °F (15° and 38 °C).

Number of miles (km) allowed in one hour = 22 (35).

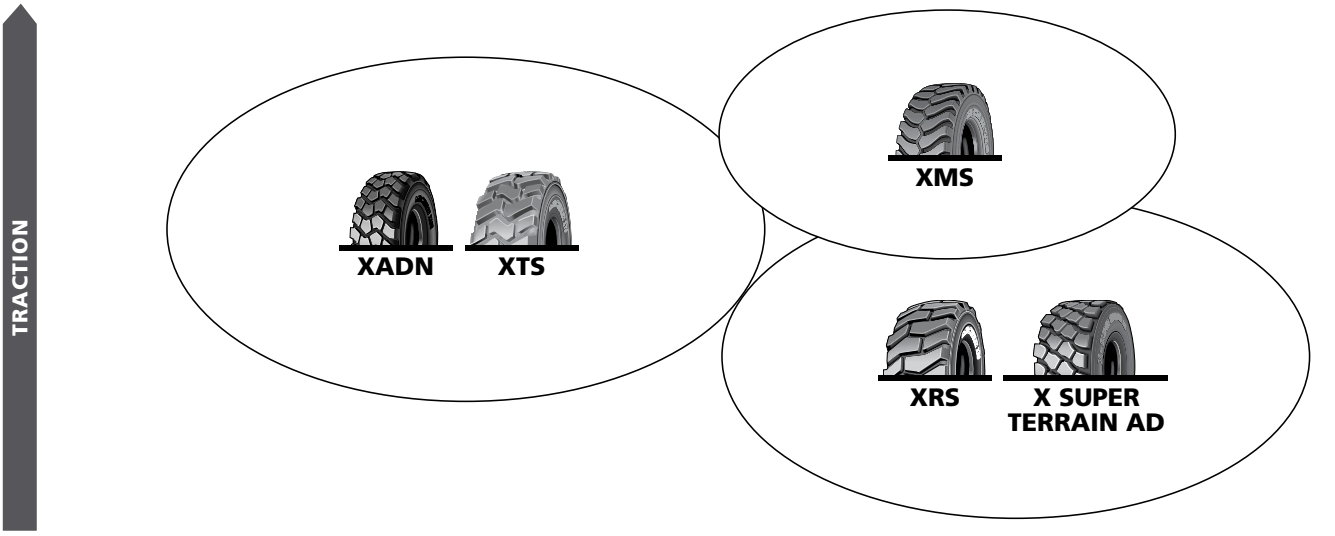
CYCLES greater than 5 km (3 miles) and ambient temperature greater than 100 °F (38 °C).

When the cycle length is greater than 5 km (3 miles), use the method specified to calculate the TMPH (TKPH) to select the tire best suited to the application.

TMPH (TKPH) is an expression of the working capacity of a tire and is a function of the maximum allowed internal operating temperature of a tire (to calculate TMPH (TKPH) see page 24).

SCRAPERS

TREAD PATTERNS AND TIRES



High level of traction and flotation required. Loading, haul roads and discharge points covered in deep yielding mud.	High level of traction required. Loading, haul roads and discharge points are yielding and muddy.	Excellent operating conditions. Easy loading and discharge areas with good roads and tracks.	Very good operating conditions. Loading and discharge areas stony. Maintained tracks but presence of stones and gravel.	Difficult loading conditions. Track conditions vary from dry to wet. Presence of stones rocks, debris.	Very difficult loading conditions. Wet surface with presence of stones and sharp rocks.

MAIN SIZES (For characteristics see pages 46 to 121).

Tire Type	XADN	X SUPER TERRAIN AD	XTS	XMS	XRS
Tread Compounds			B**	A / B4**	B**
TRA CODE	E3T	E4	E3T	E3R	E4R
Max. dist. miles in 1 h	18	18	18	20	14
Max. dist. km in 1 h	28	28	28	33	22
18.00 R 25					
23.5 R 25	185 B	185 B			
26.5 R 25	193 B	193 B			
29.5 R 25	200 B	200 B			
29.5 R 29			•		
33.25 R 29			•		
33.5 R 33					
37.5 R 33					
29.5 R 35			•		
33.25 R 35					
37.25 R 35			•		•
37.5 R 39					•
40.5/75 R 39				•	

• Available

SCRAPERS

TIRE SELECTION

1 - As a function of the surface (type, condition, etc.).
The chart on the preceeding page shows which type of tire should be selected according to the conditions of use.

- Tread compound type A is resistant to cutting and tearing.
- Tread compound type B can be operated at higher speeds.

2 - As a function of the service conditions (distances, speeds, loads).

Maximum number of kilometers (miles) allowed in one hour for 25 inch tires.

Use the average permissible speeds regardless of the number of round trips and under normal working conditions (laden and unladen trips).

TREAD PATTERN AND TYPE	Number of kilomters / miles allowed in one hour	
	kilometers	miles
XADN	28	18
X Super Terrain AD		
23.5 R 25	26	16
26.5 R 25	24	15
29.5 R 25	22	14

Maximum number of kilometers (miles) allowed in one hour for tires of 29 inch diameter and greater.

CYCLES less than 5 km (3 miles) and ambient temperature between 59° and 100 °F (15° and 38 °C).

TREAD PATTERN AND TYPE	Number of kilomters / miles allowed in one hour	
	kilometers	miles
XTS type B**	28	18
XMS type B**	33	20
XRS type B**	22	14

CYCLES greater than 5 km (3 miles) and ambient temperature greater than 100 °F (38 °C).

When the cycle length is greater than 5 km (3 miles), use the method specified to calculate the TMPH (TKPH) to select the tire best suited to the application.

TMPH (TKPH) is an expression of the working capacity of a tire and is a function of the maximum allowed internal operating temperature of a tire (to calculate TMPH (TKPH) see page 24).

TKPH/TMPH METHOD

FACTORS TO BE CONSIDERED WHEN SELECTING THE MOST APPROPRIATE TIRE:

The machine	- the tire sizes - the loads the tires have to carry (laden and unladen)
The site	- type of surface, condition and profile of haul-roads - type and condition of loading and tipping areas
Machine operation on the site	- length of the cycle (laden trip / unladen trip) - maximum number of cycles during a working period or shift - duration of the working period or shift
Problems that may arise	- how does the machine / tire combination behave? (for example, traction)
Tire behavior	- how are the tires wearing? - what are the main reasons for removing a tire from service? - are there sidewall or tread problems?
Choosing the ideal tire	This will depend on: - the fitment possibilities offered by the machine manufacturer - the service conditions on the site. Factors such as load, speed, surface conditions, etc. must be considered

TKPH (TMPH) definition:
The TKPH (Metric Ton Kilometer Per Hour) or TMPH (Ton Mile Per Hour) is an expression of the working capacity of a tire.
The TKPH (TMPH) is a function of the maximum allowed internal operating temperature of a tire.

1 - TIRE TKPH OR TIRE TMPH

A tire's TKPH (TMPH) depends on its design and varies according to size and type.
TKPH (TMPH) values are given along with other Michelin® tire characteristics.
It is a function of load and the number of kilometers (miles) covered per hour at an ambient temperature of 38° C (100° F).
The formula to convert a TKPH rating to a TMPH rating is: **TMPH = TKPH x 0.685**
TMPH calculation is based on the "short ton" which corresponds to 907 kg or 2000 lbs.

2 - BASIC SITE TKPH OR TMPH

This value reflects the specific requirements of a site and can be obtained by using the following formula:
Basic site TKPH (basic site TMPH) = Qm x Vm where Qm = average load per tire
Vm = average cycle speed, in km (or miles) per hour

a) - Average load per tire (Qm)
Average load per tire (Qm): $\mathbf{Qm = \frac{Qc + Qv}{2}}$

where Qc = is the load per tire in metric ton (TKPH), or in short ton (TMPH), on a laden vehicle.
Qv = is the load per tire in metric ton (TKPH), or in short ton (TMPH), on an unladen vehicle.

The Qm calculation should theoretically be made for each tire. However, in practice, specific tire loads are not normally available and therefore this leads to the assumption that each tire on the same axle carries an equal load. When calculating the average load per tire on the front and the rear axles, the greatest value of Qm shall be used in TKPH (TMPH) calculation.

In most cases, on two-axle dump trucks, the distribution of the total load of the loaded vehicle (unladen weight + payload) corresponds to 33.3 % on the front axle (single tires) and 66.7 % on the rear axle (dual tires).
When unladen, the front axle is almost always the heaviest.
Thus, the maximum Qm, will nearly always be on the front axle.

Caution: ensure that load distribution Front/Rear is even

Of course, the analysis of the site (or at least, the collected information), weighings and machine characteristics, will provide the information to define and check the load per tire.

TKPH/TMPH METHOD

b) - The number of km (or number of miles) covered on the reference cycle:
This is obtained by using the relationship: $Vm = \frac{L}{H}$

where L = is the cycle length in kilometers (TKPH), or in miles (TMPH).
The reference cycle must be the one with the highest average speed.
H = is the duration of cycle in hour.

3 - REAL SITE TKPH OR REAL SITE TMPH

The Qm x Vm formula is used to calculate the basic site TKPH (or TMPH).

To obtain the real site TKPH (or TMPH), two more factors must be taken into account:
- the length of cycles exceeding 5 kilometres (or 3 miles)
- the ambient temperature.

a) - Cycle length - K1 coefficient
For cycle lengths exceeding 5 kilometres (or 3 miles) apply to the basic site TKPH (or basic site TMPH) the K1 coefficient, the values of which are given on page 27.

b) - Site ambient temperature (TA) - K2 coefficient
The standard ambient temperature is 38° C (100° F). For a given speed, a site temperature higher than 38° C increases the real site TKPH (or TMPH). Conversely, a temperature lower than 38° C decreases the real site TKPH (or TMPH).

The K2 coefficient to apply to the basic site TKPH (basic site TMPH) comes from:

$$K2 = \frac{Vm + [\ 0.25^* \times (TA - TR)\ ]}{Vm}$$

where Vm is the reference cycle average speed
TA is the ambient temperature
TR is the reference temperature (38° C or 100° F)

(*: use 0.086 instead of 0.25 when calculating basic site TMPH)

The ambient temperature of the site (TA) to be taken into account is "the maximum temperature in the shade" during the hottest period.
For temperatures TA greater than 15° C (59° F), use the K2 coefficients shown on page 27.
For temperatures TA lower than 15° C (59° F), use the K2 coefficients shown in the shaded area of the table on page 27.

To sum up, for the real site TKPH (TMPH) calculation, proceed as follows:
- calculate the basic site TKPH (TMPH).
- calculate the correct for cycle length exceeding 5 kilometers (3 miles) by applying the K1 coefficient.
- calculate the correct for ambient temperatures not equal to 38° C (100° F) by applying the K2 coefficient.

Real site TKPH (or TMPH) = Basic site TKPH (or basic site TMPH) x K1 x K2

4 - COMPARISON OF THE TIRE TKPH (TMPH) AND REAL SITE TKPH (TMPH)

On the basis that the choice of tread pattern is made to meet the needs of traction, protection and speed there are 2 possibilities:

a) the TIRE's TKPH (TMPH) is greater than the real site TKPH (TMPH): the tire is suitable for the application.

b) the TIRE's TKPH (TMPH) is below the real site TKPH (TMPH): the tire is not suitable for the application.

In case b:
- Check if another tread pattern or type may be used.
- See if a modification of operating conditions is possible.
  (reduction of load and/or reduction of speed, reduced number of cycles in the same time period, etc.).

TKPH/TMPH METHOD

Example of a site TKPH (TMPH) calculation

The data to calculate the real site TKPH (TMPH) is as follows:

- well kept but abrasive haul roads
- reference cycle: 12 km (7.5 miles)
- duration of cycle: 45 minutes ; H = 45 / 60 = 0.75
- ambient temperature: 36° C (96.8° F)
- average payload: 180 tons (198.5 short ton); mine value
- unladen weight Front: 64 tons (70.6 short ton)
- unladen weight Rear: 57 tons (62.8 short ton)
- distribution of total laden weight: Front = 33.3 % Rear = 66.7 %

	(TKPH)	(TMPH)
a) Calculation of Qm (average tire load)		
- Gross vehicle weight (GVW)	180 + 64 + 57 = 301 tons	198.5 + 70.6 + 62.8 = 332 short tons
- Unladen weight per tire - Front; Qv:	$\frac{64}{2}$ = 32 tons	$\frac{70.6}{2}$ = 35 short tons
- Laden weight per tire - Front; Qc: (33.3 % of GW on front axle).	$\frac{301 \times 33.3}{2 \times 100}$ ~ 50 tons	$\frac{332 \times 33.3}{2 \times 100}$ = 55 short tons
- Average tire load, Qm Front:	$\frac{32 + 50}{2}$ = 41 tons	$\frac{35 + 55}{2}$ = 45 short tons
- Unladen weight per tire - Rear; Qv:	$\frac{57}{4}$ = 14 tons	$\frac{62.8}{4}$ = 15.5 short tons
- Laden weight per tire Rear; Qc: (66.7 % of Gross Vehicle weight on rear axle).	$\frac{301 \times 66.7}{4 \times 100}$ ~ 50 tons	$\frac{332 \times 66.7}{4 \times 100}$ = 55 short tons
- Average tire load, Qm Rear:	$\frac{14 + 50}{2}$ = 32 tons	$\frac{15.5 + 55}{2}$ = 35 short tons
Thus, the value for Qm to be used will be:	**41 tons**	**45 short tons**
b) Calculation of Vm (distance covered per hour)		
$Vm = \frac{L}{H}$	$\frac{12}{0.75}$ = **16 km** in one hour	$\frac{7.5}{0.75}$ = **10 miles** in one hour
c) Basic site TKPH (TMPH)		
TKPH (TMPH) = Qm x Vm	41 x 16 = **656**	45 x 10 = **450**

d) Calculation of K1 coefficient

The round-trip being longer than 5 kilometres (3 miles), the K1 coefficient is 1.14 (as given in the table on page 110).

e) Calculation of K2 coefficient

The ambient temperature being different from 38° C (100° F), the K2 coefficient is:

$K2 = \frac{Vm + [\ 0{,}25^{*} \times (TA - TR)\ ]}{Vm}$ (*: use 0.086 instead of 0.25 for TMPH)	$\frac{16 + [0.25\ (36 - 38)]}{16}$ = **0.969**	$\frac{10 + [0.086\ (96.8 - 100)]}{10}$ = **0.972**

f) Real site TKPH (TMPH)

Applying the K1 and K2 coefficients to the basic site TKPH (TMPH) gives the real site TKPH (TMPH).

	656 x 1.14 x 0.969 = **725**	450 x 1.14 x 0.972 = **499**

g) Tire TKPH (TMPH) / Real site TKPH (TMPH) comparison

In the 37.00 R 57 XDR size	the different tire TKPH values are: A = 678 B4 = 848 B = 1018	the different tire TMPH values are: A = 464 B4 = 581 B = 698

The choice of tire available for this site would be between **B4** and **B** types.
Taking into account the abrasive haul roads, the recommendation would be the **B4** type (see type definitions on page 8).

MAIN FACTORS TO BE CONSIDERED AND THE TKPH (TMPH) METHOD

K 1 Coefficients

L (km)	L (ml)	K 1	L (km)	L (ml)	K 1	L (km)	L (ml)	K 1	L (km)	L (ml)	K 1	L (km)	L (ml)	K 1
			11	6.8	1.13	**21**	13	1.19	**31**	19.3	1.21	**41**	25.5	1.23
			12	7.4	1.14	**22**	13.7	1.19	**32**	19.9	1.21	**42**	26.1	1.23
			13	8	1.15	**23**	14.3	1.20	**33**	20.5	1.22	**43**	26.7	1.23
			14	8.7	1.16	**24**	14.9	1.20	**34**	21.1	1.22	**44**	27.3	1.23
5	3.1	1.00	**15**	9.3	1.16	**25**	15.5	1.20	**35**	21.7	1.22	**45**	28	1.23
6	3.7	1.04	**16**	9.9	1.17	**26**	16.2	1.20	**36**	22.4	1.22	**46**	28.6	1.23
7	4.3	1.06	**17**	10.6	1.17	**27**	16.8	1.21	**37**	23	1.22	**47**	29.2	1.23
8	5	1.09	**18**	11.2	1.18	**28**	17.4	1.21	**38**	23.6	1.22	**48**	29.8	1.23
9	5.6	1.10	**19**	11.8	1.18	**29**	18	1.21	**39**	24.2	1.22	**49**	30.4	1.23
10	6.2	1.12	**20**	12.4	1.19	**30**	18.6	1.21	**40**	25	1.22	**50**	31	1.23

L = Cycle length in kilometers and in miles.

K 2 Coefficients

Vm Km (miles)	Ambient temperature													
	<15 °C	**15 °C**	**17.5 °C**	**20 °C**	**22.5 °C**	**25 °C**	**27.5 °C**	**30 °C**	**32.5 °C**	**35 °C**	**37.5 °C**	**40 °C**	**42.5 °C**	**45 °C**
	<59 °F	**59 °F**	**63.5 °F**	**68 °F**	**72.5 °F**	**77 °F**	**81.5 °F**	**86 °F**	**90.5 °F**	**95 °F**	**99.5 °F**	**104 °F**	**108.5 °F**	**113 °F**
10 (6)	0.400	0.425	0.488	0.550	0.613	0.675	0.738	0.800	0.863	0.925	0.988	1.050	1.113	1.175
12 (7)	0.500	0.521	0.573	0.625	0.677	0.729	0.781	0.833	0.885	0.938	0.990	1.042	1.094	1.148
14 (9)	0.571	0.589	0.634	0.679	0.723	0.766	0.813	0.857	0.902	0.946	0.991	1.036	1.080	1.125
16 (10)	0.625	0.641	0.680	0.719	0.758	0.797	0.836	0.875	0.914	0.953	0.992	1.031	1.070	1.109
18 (11)	0.666	0.681	0.715	0.750	0.785	0.819	0.854	0.889	0.924	0.958	0.993	1.028	1.063	1.097
20 (12.5)	0.700	0.713	0.744	0.775	0.806	0.838	0.869	0.900	0.931	0.963	0.994	1.025	1.056	1.088
22 (14)	0.727	0.739	0.767	0.795	0.824	0.852	0.881	0.909	0.938	0.966	0.994	1.023	1.051	1.080
24 (15)	0.750	0.760	0.786	0.813	0.839	0.865	0.891	0.917	0.943	0.969	0.995	1.021	1.047	1.073
26 (16)	0.769	0.779	0.803	0.827	0.851	0.875	0.899	0.923	0.947	0.971	0.995	1.019	1.043	1.067
28 (17)	0.785	0.795	0.817	0.839	0.862	0.884	0.906	0.929	0.951	0.973	0.996	1.018	1.040	1.063
30 (19)	0.800	0.808	0.829	0.850	0.871	0.892	0.913	0.933	0.954	0.975	0.996	1.017	1.038	1.058
32 (20)	0.812	0.820	0.840	0.859	0.879	0.898	0.918	0.938	0.957	0.977	0.996	1.016	1.035	1.055
34 (21)	0.823	0.831	0.849	0.868	0.886	0.904	0.923	0.941	0.960	0.978	0.996	1.015	1.033	1.051
36 (22)	0.833	0.840	0.858	0.875	0.892	0.910	0.927	0.944	0.962	0.979	0.997	1.014	1.031	1.049
38 (24)	0.842	0.849	0.865	0.882	0.898	0.914	0.931	0.947	0.964	0.980	0.997	1.013	1.030	1.046
40 (25)	0.850	0.856	0.872	0.888	0.903	0.919	0.934	0.950	0.966	0.981	0.997	1.013	1.028	1.044
42 (26)	0.857	0.863	0.878	0.893	0.908	0.923	0.938	0.952	0.967	0.982	0.997	1.012	1.027	1.042
44 (27)	0.864	0.869	0.884	0.898	0.912	0.926	0.940	0.955	0.969	0.983	0.997	1.011	1.026	1.040
46 (28)	0.869	0.875	0.889	0.902	0.916	0.929	0.943	0.957	0.970	0.984	0.997	1.011	1.024	1.038
48 (29)	0.875	0.880	0.893	0.906	0.919	0.932	0.945	0.958	0.971	0.984	0.997	1.010	1.023	1.036
50 (31)	0.880	0.885	0.898	0.910	0.923	0.935	0.948	0.960	0.973	0.985	0.998	1.010	1.023	1.035

Vm = number of km (miles) **covered per hour.**

Interpolation is allowed between the temperatures shown in the column headings.

SKID STEER LOADERS, LOADERS, DOZERS OR BULLDOZERS

In order to maximize the productivity of these machines, they are not designed to be run over very long distances. As such, their travel speeds are relatively low.

There are several types of work machines. Each with its own specialized application.

I. SKID STEER LOADERS

These compact machines have a cabin that is integral with the chassis and from which the machine is driven and operated.
The bucket is mounted on two arms that can articulate.
They are equipped with 4 single, equal-sized, wheels which are all driven.

II. LOADERS

These machines have 4 single tires of equal size and are fitted with a bucket at the front of the machine.
Their function is transfer material from a quarry face, stockpile, etc. to a neighboring point. For example, into a truck, crusher, conveyor, etc.

There are two families of loaders.

1) Loaders for stock rehandling

Often referred to as "small loaders", they are employed on a multitude of tasks in a large variety of applications (quarries, stock rehandling, incineration plants, etc.).

These machines are often articulated and may be either two or four wheel drive. They are usually equipped with the same size of tire all the way around, but sometimes smaller tires are fitted to the front.

In stock rehandling, the use of larger loaders is becoming more common.

2) Loaders in production

Termed "large loaders", they play an active role in the production process of mines, quarries and some industrial applications.

The high mobility of wheeled loaders is put to good use in applications of "load and carry." Material is loaded at the quarry face and carried to the crusher by the loader, without the intermediate use of a truck.
When used in this way, the one-way travel distance could be of the order of several tens of yards.

The bigger size of these loaders (bucket size of up to 30 cubic meters or 39 cubic yards) and larger engine sizes (1400 kW) requires ever more complex transmission systems (limited slip differentials, torque converters, etc.). Such loaders are fitted with four equal sized wheels which are all driven.

III. DOZERS or BULLDOZERS

Wheeled dozers, as the name suggests, are used to displace material by pushing it by means of a front mounted blade.

They are also used to assist in the loading and unloading of scrapers in construction sites and for the maintenance of haul roads and loading zones in opencast mines. Smaller dozers are being replaced by larger ones which are often equipped with 45 inch wheels.

Dozers have four equal sized wheels which are all driven.

BACKHOE LOADERS, WHEELED EXCAVATORS, TELESCOPIC HANDLERS AND GRADERS

IV. BACKHOE LOADERS

These machines which are configured as 4x2 or 4x4, are fitted with a bucket at the front and an excavator bucket at the rear.

The front tires are generally of a smaller size than the rears, though equal sized machines also exist. These are very versatile machine. The front end with the bucket serves as a loader, while the rear is used for excavation of trenches, etc. They are to be found in most types of construction applications and maintenance of public utilities.

V. WHEELED EXCAVATORS

These machines have a cabin integral with the chassis from which the machine is driven and operated.
They are fitted with a single articulated arm that may be fitted with a bucket, excavator or other accessory.
They are to be found fitted with steel tracks, or single or dualled tires.
With dualled cross-ply (bias) tires, a rubber ring is often fitted between the two tires. Such a ring is not compatible with radial tires and should not be used when radials are fitted.
Machines on tires are fitted with stabilizers which are used when operating the machine for work.

VI. TELESCOPIC HANDLERS

These work machines consist of a chassis, a telescopic arm and a cabin from which the machine is driven and operated. The telescopic arm may be equipped with different work tools, for example, forks, buckets, etc.
The machines have four equal wheels which are all driven and steered and are usually fitted with stabilizers which are used when operating with the arm raised to a high position.
The capacity of these machines is dependent on the operating height of the telescopic arm and the speed of travel of the machine. This information is provided in the form of load charts by the machine manufacturer.

VII. GRADERS

These work machines have a blade in the center and sometimes at the front as well.
They generally have 3 axles, all with single tires; the front is **usually** steer only, but it may have a front wheel drive axle also, while one, or both, of the rear axles may be driven and have a small degree of steer through articulation.
In opencast mines and quarries, graders are used for the maintenance of haul roads on which other machines, such as rigid dump trucks, are operated.
They are a valuable earthmoving tool and can significantly reduce travel times for all other machines.

Graders are used to perform several different tasks.

1) Earthmoving:
Used for maintaining the general profile of the land, creating embankments, and maintenance of haul roads for dumpers and scrapers.

2) Mines and Quarries:
Used for maintenance of haul roads for other machines.

3) Construction and Public Works:
Used to form contoured base layers and fine finished surfaces (working by laser, etc.).

SURFACE LOADERS IN REHANDLING, PRODUCTION, EXTRACTION AND FACE WORK

DETERMINING INFLATION PRESSURE

There are two ways of determining tire pressures on loaders but the method of weighing each axle under actual work conditions is the most accurate.

1 - BY WEIGHING THE MACHINE AXLES

- **determine** the maximum load on each tire by weighing.
This is the only way that tire pressures can be set accurately for optimum performance.

- **use** the tables "Tire loads and pressures" for LOADERS to determine the pressure.

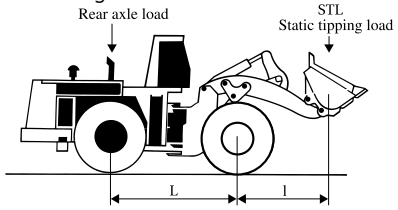
Front laden:	for the laden front axle.	(bucket full)
Rear unladen:	for the unladen rear axle.	(bucket empty)

2 - BY CALCULATION, USING THE MACHINE MANUFACTURER'S DATA

Front Axle (bucket full)

- **use** the laden front axle load given by the machine manufacturer.

- **use** the tables "Tire loads and pressures" for LOADERS in the earthmover data book under the heading:
Front Laden



Rear Axle (bucket empty)

- **use** either the unladen rear axle load given by the machine manufacturer, or
- take 60% of the unladen weight of the machine (to have a margin of safety).

By calculation: Rear Axle Load = $\frac{STL \times l}{L}$

- **use** the tables "Tire loads and pressures" for LOADERS in the earthmover data book under the heading:
REAR unladen:

SURFACE LOADERS IN REHANDLING, PRODUCTION, EXTRACTION AND FACE WORK

DETERMINING INFLATION PRESSURE

IMPORTANT

The rule to determine pressures by calculation applies to loaders of standard specification and which have not been modified for special use. The calculated pressures are the minimum for the loads and may be increased to obtain a desired level of handling, or for particular applications, (but must remain within the published load/pressure table for the tire size and type).

For a given load, it can be necessary to modify the pressure of the tire in order to optimize the behavior of the loader (need of more stability for example).

example **for improved flotation, decrease front pressure by 0.5 bar (7 psi) (while not decreasing the pressure below 2.5 bar/ 36 psi) for improved stability, increase front pressure by 0.5 bar (7 psi) (without exceeding the authorized maximum pressure)**

In case of long travel distances (ex: delivery of new machine, transfer from one site to another, etc.), specific precautions need to be taken.

Please contact Michelin® Earthmover Department for advice in such cases.

TIRES FOR WHEEL MACHINES DOZERS

DETERMINING INFLATION PRESSURE

Depending on the type of work, tires on a dozer are subjected to different types of loading.
- the load on the Front Axle is at the maximum when loading (pushing) a scraper.
- the load on the Rear axle is at the maximum when dozing or while stockpiling.

From a practical point of view, the maximum load on either of the two axles is approximately equal to 2/3 of the machine weight.

Using this method to determine the load on each tire
Use the tables "Tire loads and pressures" for LOADERS for the Rear unladen.

COMPACT LOADERS, BACKHOE LOADERS AND TELESCOPIC HANDLERS

DETERMINING INFLATION PRESSURE



<u>COMPACT LOADERS</u>: By weighing the machine axles

This is the only way whereby tire pressures can be set accurately for optimum performance.
- **determine** the maximum load on each tire on the front and rear axles.

Front axle – The front axle should be weighed with the bucket full and in the transport position.

- **use** the tables "Tire loads and pressures" for LOADER or BACKHOE LOADERS in the data book.

· use the 10 km/h (6 mph) table for the front axle laden (BACKHOE LOADERS)
· use the front laden table for the front axle laden (LOADER)

Rear axle (bucket empty) – The rear axle should be weighed with the bucket empty and in the transport position.

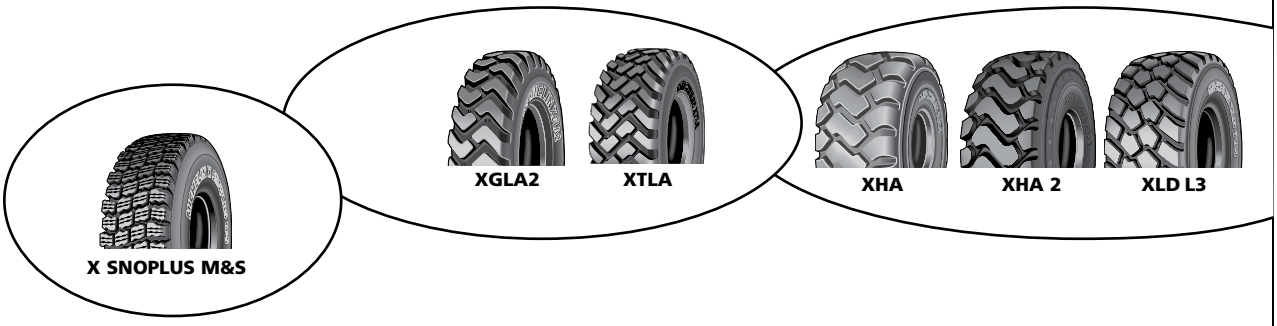
- **use** the tables "Tire loads and pressures" for LOADER or BACKHOE LOADERS in the data book.

- use the load table that corresponds to the maximum speed for the rear axle unladen (from 10 to 65 km/h / 6 to 40 mph according to the cases) (BACKHOE LOADERS)
· use the Rear unladen schedule for the rear axle laden (LOADER)

SURFACE LOADERS IN STOCK REHANDLING AND GENERAL SERVICE

TREAD PATTERNS AND TIRES

TRACTION



TYPE OF SURFACE

Working conditions
- snow
- very muddy

Working conditions requiring traction
- very muddy

Easy working conditions
- clay
- sand
- silt
- earth

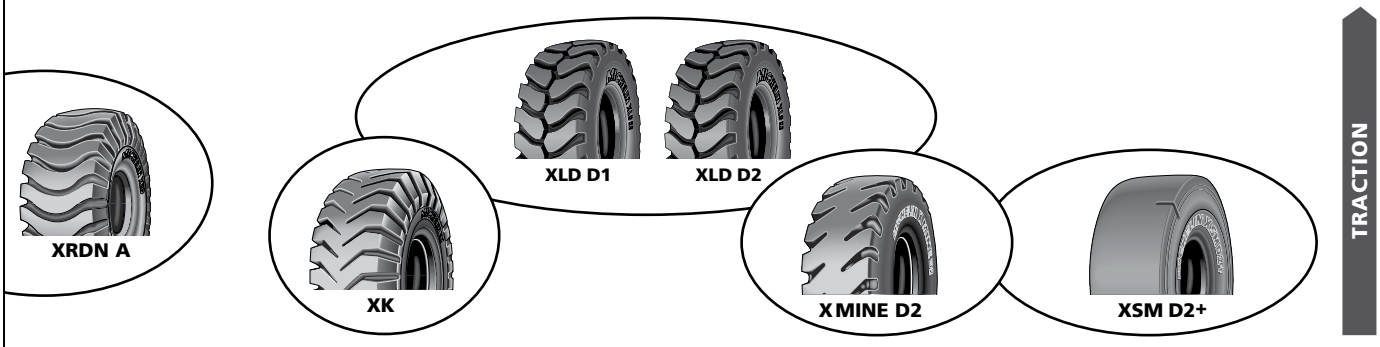
MAIN SIZES (For characteristics see pages 46 to 121). Non Tubeless sizes are marked TT (Tube Type).

Tire Type	XGLA2	X SNOPLUS*	XTLA*	XRDN A*	XHA*	XHA 2*	XLD* low profile
TRA CODE	L2 / G2	L2T (1)	L2 / G2	L3 (2)	L3	L3	L3T
Max. dist. miles in 1 h	9.9	9.9	9.9	9.9	9.9		9.9
Max. dist. km in 1 h	16	16	16	16	16		16
9.00 R 20 TT							
12.00 R 20							
14.00 R 20							
12.00 R 24							
13.00 R 24							
14.00 R 24	•	•					
16.00 R 24	•						
20 R 24							
555/70 R 24							
15.5 R 25			•		•		
16.00 R 25							
17.5 R 25		•	•		•		
18.00 R 25							
550/65 R 25							•
555/70 R 25							
20.5 R 25		•			•	•	
600/65 R 25							•
625/70 R 25							
650/65 R 25							•
23.5 R 25		•	•		•	•	
705/70 R 25							
750/65 R 25							•
26.5 R 25					•	•	
29.5 R 25					•	•	
755/70 R 25							
800/65 R 29							•
26.5 R 29							
29.5 R 29							
30/65 R 29							
35/65 R 33				•			
40/65 R 39							
45/65 R 39							
45/65 R 45							
55/80 R 57							
60/80 R 57							

(1) Winter use and all seasons (2) XRDN A* has similar performance to XHA* • Available

SURFACE LOADERS IN PRODUCTION, EXTRACTION AND FACE WORK

TREAD PATTERNS AND TIRES



TYPE OF SURFACE

Moderately difficult working conditions
- gravel - marl - earth with stones

Difficult working conditions
- mudstone, limestone - shale - minerals
- recycling - public waste rehandling

Very difficult working conditions
- abrasive rock - hard blasted rock
- sharp damaging rock - silica clay

MAIN SIZES (For characteristics see pages 46 to 121). Non Tubeless sizes are marked TT (Tube Type).

XLD D1 A*	XLD D2 A*	X MINE D2	XSM D2+	Tire Type
L4R	L5T	L5R	L5S	TRA CODE
8.7	6.2	3.8	3.8	Max. dist. miles in 1 h
14	10	6	6	Max. dist. km in 1 h
		•		9.00 R 20 TT
		•		12.00 R 20 TT
		•		14.00 R 20
		•	•	12.00 R 24
				13.00 R 24
			•	14.00 R 24
				16.00 R 24
				20 R 24
				555/70 R 24
		•		15.5 R 25
				16.00 R 25
	•	•	•	17.5 R 25
		•	•	18.00 R 25
				550/65 R 25
				555/70 R 25
	•	•		20.5 R 25
				600/65 R 25
				625/70 R 25
				650/65 R 25
	•	•		23.5 R 25
				705/70 R 25
				750/65 R 25
•	•	•	•	26.5 R 25
•	•	•		29.5 R 25
				755/70 R 25
				800/65 R 29
				26.5 R 29
	•			29.5 R 29
				30/65 R 29
•	•	•		35/65 R 33
				40/65 R 39
	•	•		45/65 R 39
•	•	•		45/65 R 45
		•		55/80 R 57
		•		60/80 R 57

• Available

TIRE SELECTION

1 - As a function of the surface
(type, conditions, etc.).
The preceding tables give an idea of the relative merits of each type of tire as a function of the application required,
for example, the nature of the surface, the working environment, etc.

2 - As a function of service conditions
(distances, speeds).
In the case of loaders used in load and carry operation, the restrictions shown below must be observed.

	Type of tire	Maximum length of cycle permissible (laden one way, unladen the other) in yards (meters)	Maximum number of miles (kilometers) allowed in one hour
LOAD & CARRY APPLICATION	XTLA / XGLA2	1968 (1800)	16 (9.9)
	XHA / XHA 2 / XRDN A XK A / XLD L3	1968 (1800)	16 (9.9)
	XLD D1	1968 (1800)	14 (8.7)
	XLD D2	1640 (1500)	10 (6.2)
	X MINE D2 / XSM D2+	1312 (1200)	6 (3.8)

COMPACT LOADERS, BACKHOE LOADERS AND TELESCOPIC HANDLERS FITTED WITH INDUSTRIAL TIRES

DETERMINING INFLATION PRESSURE



BACKHOE LOADERS

Determine the maximum load on each tire on the front and rear axles.
This is the only way whereby tire pressures can be set accurately for optimum performance.

Front axle - the front axle should be weighed with the bucket full and in the transport position.

Use the tables "Tire loads and pressures" for LOADER or BACKHOE LOADERS.
- · use the 10 km/h (6 mph) schedule for the front axle laden (BACKHOE LOADERS)
- · use the front laden schedule for the front axle laden (LOADER)

Rear axle (bucket empty) - the rear axle should be weighed with the bucket empty and in the transport position.

Use the tables "Tire loads and pressures" for LOADER or BACKHOE LOADERS.
- · use the load schedule that corresponds to the maximum speed for the rear axle unladen (from 10 to 65 km/h / 6 to 40 mph according to the cases) (BACKHOE LOADERS)
- · use the Rear unladen schedule for the rear axle laden (LOADER)

Note: There are two types of Backhoe loaders.
- "SIDE-SHIFT"
  - the backhoe can be slid along the transversal axis on which it is mounted.
  - in the transport position, the load across the rear axle is well distributed.

- "CENTRE POST"
  - the backhoe is fixed at the center, between the two rear wheels; in the transport position the center of gravity of the rear axle is offset. This results in one of the rear tires being more heavily loaded and the pressure in it should be adjusted to correspond to the load.

TELESCOPIC HANDLERS

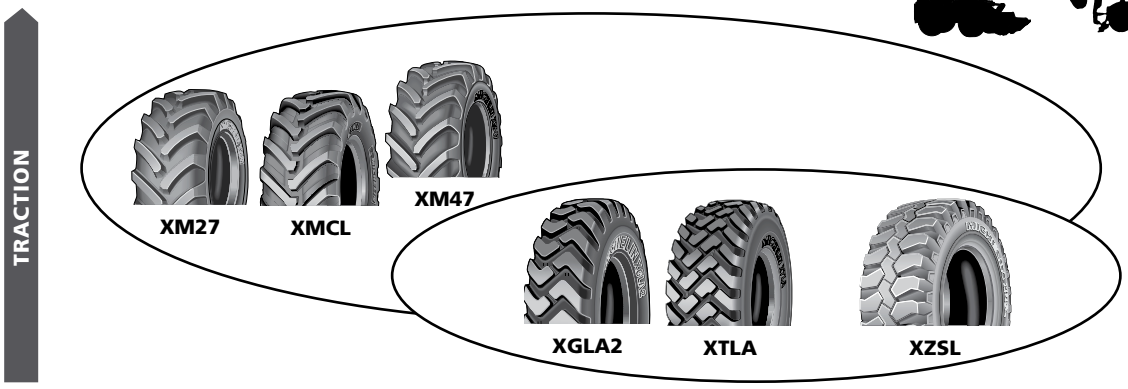
In the case of telescopic handlers the pressures recommended by the machine manufacturer should be used.
These pressures are determined by the machine manufacturer after conducting "Tilt Tests" for stability.
In the absence of machine manufacturer's recommendation, apply the following pressures.

For earthmover tires:
- **use** the pressure corresponding to the maximum normalized load (highlighted) as shown in the tables "Tire loads and pressures" for LOADERS front laden for both front and rear tires.

For agricultural tires:
- **use** the pressure corresponding to the maximum load at 10 km/h (6 mph) as shown in the tables "Tire loads and pressures" for BACKHOE LOADERS for both front and rear tires.

BACKHOES, COMPACT LOADERS AND TELESCOPIC HANDLERS

TREAD PATTERNS AND TIRES



TYPE OF SURFACE

Working conditions	Easy working conditions	Moderately difficult working condtions	Difficult working condtions
- very muddy	- hard surfaces, asphalt - clay - sand - silt - earth	- construction/demolition - gravel / stones	- public waste rehandling - recycling work

MAIN SIZES (For characteristics see pages 46 to 121). Non Tubeless sizes are marked TT (Tube Type).

Tread Pattern	XZSL	XM47	XMCL
TRA CODE			L2 / G2
Max. dist. miles in 1 h	16	5 - 30	9.9
Max. dist. km in 1 h	25	10 - 50	16
11 LR 16		122 A8 •	
280/80 R 18	•		132 A8/B
335/80 R 18 (12.5/80 R18)	•		
340/80 R 18	•		143 A8/B
280/80 R 20	•		133 A8/B
335/80 R 20 (12.5/80 R20)	•		
340/80 R 20	•		144 A8/B
375/75 R 20	•		
380/75 R 20	•		148 A8/B
400/70 R 20 (14.5 R 20)			149 A8/B
405/70 R 20 (14.5 R 20)	•	136 G	154 A8/B

Tread Pattern	XZSL	XM47	XMCL	XGLA2
TRA CODE			L2 / G2	L2 / G2
Max. dist. miles in 1 h	16	5 - 30	9.9	9.9
Max. dist. km in 1 h	25	10 - 50	16	16
420/75 R 20	•		154 A8/B	
425/75 R 20 (16.5/75 R 20)	•	167 A2/155 B - 148 G		
14.00 R 24				•
16.00 R 24				•
440/80 R 24	•		161 A8/B	
445/70 R 24				151 G
460/70 R 24	•		159 A8/B	
495/70 R 24				155 G
500/70 R 24 (19.5 LR 24)			164 A8/B	
480/80 R 26 (18.4 R 26)	•		160 A8/B	
440/80 R 28	•		156 A8/B	

• Available

TIRE SELECTION

1 - As a function of the surface (type, conditions, etc.).
The preceding tables give an idea of the relative merits of each type of tire as a function of the application required, for example, the nature of the surface, the working environment, etc.

2 - As a function of service conditions (distances, speeds).
In the case of loaders used in load and carry operation, the restrictions shown below must be observed.

Type of tire	XM27	XZSL	XTLA
Maximum length of cycle permissible, round trip yards (meters)	No limit	No limit	1968 (1800)
Maximum number of miles (kilometers) allowed in one hour	5 to 30 (10 to 50)	15.5 (25)	9.9 (16)

GRADERS

DETERMINING INFLATION PRESSURE

As a general rule, the inflation pressure must never be lower than 2 bar (29 psi)
Should there be an obvious overload or a special need for flotation, or if in doubt:
- **weigh** the machine to find out the load on each axle or use the loads given by the machine manufacturer.
- **use** the tables "Tire loads and pressure" for GRADERS.

For special work (example: sloping embankments), the inflation pressure should never be lower than 2.5 bar (36 psi).

SKID STEERS (STABILX® XZSL® TL)

DETERMINING INFLATION PRESSURE

- **determine** the maximum load on each tire by weighing.
  This is the only way that tire pressures can be set accurately for optimum performance.

If it is not possible to weigh the machine, calculate the load on each axle as follows:

1) Calculating the Rear axle load (unladen)
Rear axle load = Static Tipping Load x (l/L)

2) Calculating the Front axle load (laden)
Front axle load = Payload + Total machine weight (shipping weight) - 1/2 Rear axle load

- **use** the tables "Tire loads and pressures for" SKID STEER MACHINES AND COMPACT LOADERS
  and apply the "load and carry table".
- All tires are inflated to the same pressure, corresponding to the most heavily laden tire, to ensure good handling.

WHEELED EXCAVATORS (XF™ TL)

DETERMINING INFLATION PRESSURE

- **determine** the maximum load on each tire. This is the only way that tire pressures can be set accurately for optimum performance.

- **use** the tables "Tire loads and pressures" for WHEELED EXCAVATORS - 30 km/h (18 mph) for site and for highway service.

At 10 km/h (6 mph) rough terrain pressures can be used where flotation/traction is a required.
However, the tire pressures must be raised when the machine travels on the highway.

***Note**: Michelin® can also offer fitments for machines fitted with truck size tires in addition to tires used in singles.*
(Example: 8.25 R 20, 9.00 R 20, 10.00 R 20, 11.00 R 20, 12.00 R 20, etc.)

Please consult us for a recommendation.

GRADERS

TREAD PATTERNS AND TIRES

TYPE OF SURFACE

Winter type working conditions	Working conditions requiring traction	Easy working condtions	Moderately difficult working condtions	Difficult working condtions
- snow - very muddy	- very muddy	- clay - earth - silt - sand	- gravel - marl - earth with stones	- mudstone, limestone - minerals - shale

MAIN SIZES (For characteristics see pages 46 to 121). Non Tubeless sizes are marked TT (Tube Type).

Tire Type	X SNOPLUS	XGLA2	XTLA	XHA	XHA 2	XLD low profile	XLD D2
TRA CODE	G2/L2T	G2	L2	L3	L3	L3T	L5T
Max. dist. miles in 1 h	9.9	9.9	9.9	9.9	9.9	9.9	6.2
Max. dist. km in 1 h	16	16	16	16	16	16	10
14.00 R 24	• (2)	•					
16.00 R 24	•	•					
15.5 R 25			•	•			
17.5 R 25	• (2)		•	•			•
20.5 R 25	• (2)			•	•		•
550/65 R 25						•	
23.5 R 25	• (2)		•	•	•		•
600/65 R 25						•	
650/65 R 25						•	
750/65 R 25						•	
26.5 R 25					•		•
29.5 R 25				•	•		•
800/65 R 29						•	

(2) Winter use and all seasons • Available

TIRE SELECTION

The chart above shows which type of tire should be selected according to the conditions of use. Where extreme protection is needed, MICHELIN® XLD® D2 and X Mine® D2 tires may be necessary (see available sizes on pages 32 and 33), which may only be fitted to 3 or 5-piece rims.

ROADBUILDING MACHINERY (PLANERS, STABILIZER MIXERS, PAVERS)

HOW TO PROCEED

There are no tires made specifically for this type of machinery.
Tires should be chosen according to their average speed capabilities in relation to those of the machine and their load capacity.

All these machines operate at 2 speeds: a "transport" or "traveling" speed and a "work" speed.

When moving at their "transport" speed, (up to 25 km/h / 15 mph), the weight carried by the tires is that of the machine alone.
Once the load per tire has been determined, refer to the load/pressure table which corresponds best to the speed at which the selected tire is to be used.

example:
- for a 14.00 R 24 XGLA2™,
  at a speed of 25 km/h (15 mph), use the load/pressure table for "Graders",
  at a speed of 10 km/h (6 mph), use the load/pressure table for "Loaders, front laden".
- for a 18.00 R 25 XVC™, use the load/pressure table for "Cranes" at the speed required.

When traveling at their "work" speed (between 1 to 3km/h / 1 to 2 mph), the total weight carried by the tires includes that of the load as well as the machine itself. Once the load per tire has been determined, refer to the load/pressure table which corresponds best to the speed at which the selected tire is to be used.

example:
- for a 14.00 R 24 XGLA2™,
  use the load/pressure table for "Loaders front laden".
- for a 18.00 R 25 XVC™,
  load/pressure table for "Cranes" at 2 or 5 km/h (1 to 3 mph).

In each case, once the load per tire has been determined, apply the higher pressure.
In most cases this will be the pressure recommended at "transport" speed.

CALCULATING THE LOAD PER TIRE

If the load per axle is not known (no machine manufacturer's information available and no possibility of a physical weighing), follow the instructions below.

TRAVELING MACHINES:

For cold Planers and Stabilizer Mixers: load per axle on pneumatic tires = 50% of machine weight.
For Pavers: load per axle on pneumatic tires = 80% of machine weight / number of axles.

LOADED/WORKING MACHINES:

For cold Planers and Stabilizer Mixers: load per axle = 50% of machine weight + payload.
For Pavers: load per axle on pneumatic tires = 30% machine weight + maximum load of the container bin / number of axles.

TIRES FOR UNDERGROUND MACHINES

UNDERGROUND MACHINES

These special machines are to be found in use in underground mines and tunnels.
They are designed for loading and carrying material over short distances and at low speed.

They are restricted in length, width and height because of the tight spaces they have to operate in. They often operate in very demanding conditions and the risk of damage to tires (crown abrasion, tread tearing and hacking, sidewall cuts, shock impacts, etc.) can be very high.

There are different types of machines:

I. - TRANSPORT MACHINES

These machines have a very low height, a tipping body (often side tip), and generally 2 axles fitted with single tires.

II. - LOADERS

These are very low in height, two axle articulated machines, with mechanical or electrical drive and single tires. They are equipped with a bucket operated by one or two articulated arms.

III. SERVICE MACHINES

These are very low in height, articulated machines, with two axles fitted with single tires. They are used in underground mines for a variety of applications, such as, drilling, maintenance of ceilings, transporting personnel, etc.

UNDERGROUND MINE MACHINES

TREAD PATTERNS AND TIRES

TYPE OF SURFACE

Moderate working conditions
- gravel
- marl
- earth with stones

Difficult working conditions
- mudstone
- shale
- limestone
- minerals

Very difficult working conditions
- abrasive rocky surface
- silica clay
- sharp damaging rocks
- hard blasted rock

MAIN SIZES (For characteristics see pages 46 to 121). Non Tubeless sizes are marked TT (Tube Type).

Tire Type	XK (A or B) **	XKD1 A**	XLD D1*	XLD D2*	X MINE D2	XSM D2+
TRA CODE	L3/E3	L4	L4R	L5T	L5R	L5S
Max. dist. miles in 1 h	8.7	11.2	8.7	6.2	3.8	3.8
Max. dist. km in 1 h	14	18	14	10	6	6
7.50 R 15 TT					•	
8.25 R 15 TT					•	
10.00 R 15 TT					•	
14.5 R 15					•	
9.00 R 20 TT					•	
12.00 R 20					•	
14.00 R 20					•	
12.00 R 24	A TT (***) E3 •				•	•
14.00 R 24 TT	A (***) E3 •					
15.5 R 25					•	
17.5 R 25				•	•	•
18.00 R 25		•			•	•
20.5 R 25				•	•	
21.00 R 25	A L3 •					
23.5 R 25				•	•	
26.5 R 25			•	•	•	•
29.5 R 25			•	•	•	
29.5 R 29				•		
35/65 R 33			•	•	•	
45/65 R 39				•	•	
45/65 R 45			•	•	•	

(1) available in XRD1A* (***) 3 star tire; maximum distance allowed in one hour = 11 miles (18km) • Available

UNDERGROUND LOADERS & UNDERGROUND TRUCKS

TIRE SELECTION

1 - As a function of the surface (type, state, etc.).
The chart opposite shows which type of tire should be selected according to the conditions of use.

2 - The choice of tire also depends on service conditions (distances and speeds).

Type of tire	XKD1 A	XK A XLD D1	XLD D2	X MINE D2/ XSM D2+
Maximum length of cycle permissible, round trip yards / meters (1)	2296 2100	1968 1800	1640 1500	1312 1200
Maximum number of kilometers/ miles allowed in one hour (2)	11 18	8.7 14	6.2 10	3.8 6

(1) This applies only to Load-Haul Dumpers (LHDs).
(2) The maximum speed may exceed the stated value for short periods, but the total number of kilometers (miles) covered in one hour must not exceed this value in one hour during a working shift.

DETERMINING INFLATION PRESSURE

I. - TRANSPORT MACHINES

Determine the maximum load on each tire of each axle, with the machine loaded
- by calculation, using the machine manufacturer's data, or
- by weighing each tire position with the machine loaded.

Use the tables "Tire loads and pressures" for MINE TRANSPORT.

II. - LOADERS

There are two methods of determining pressures for a loader.

1 - by weighing the axles
- **determine** the maximum load on each tire of each axle by weighing.
  This is the only way whereby tire pressures can be set accurately for optimum performance.

- **use** the tables "Tire loads and pressures" for LOADERS.
  Front laden for the Front axle (bucket full)
  Rear unladen for the Rear axle (bucket empty)

2 - by calculation, using the machine manufacturer's data:
The load distribution on the front axle of an underground loader is different from that of a surface loader.
The rules for calculating pressures for surface loaders are not applicable.

- **determine** the maximum load per tire for each axle.

Front axle (bucket loaded)
Use the loads for the Front axle given by the machine manufacturer.

- **use** the tables "Tire loads and pressures" for LOADERS
  Front laden.

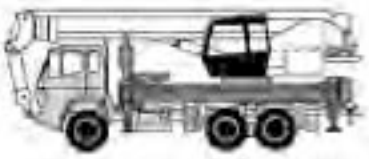
Rear axle (unladen)
Use the rear axle loads given by the machine manufacturer.

- **use** the tables "Tire loads and pressures" for LOADERS
  Rear unladen.

MILITARY AND RAPID INTERVENTION VEHICLES, FIRE ENGINES, CRANES

I. - MOBILE CRANES (TRUCK CRANES)

In general, such cranes are mounted on a standard road-going truck chassis and are also known as Truck Cranes. Fitted with truck tires, they are designed for use only on highways. Very practical and maneuverable, they offer excellent performance on hard surfaces. Their maximum lift capacity is 55 short tons.



II. - ROUGH TERRAIN CRANES

These cranes are not designed for highway use or for running over long distances. They have a single cab which serves a dual purpose - driving the vehicle and operating the crane mechanism when stationary. They are equipped with earthmover tires which gives them a capability to overcome various obstacles and to traverse rough ground. Rough Terrain cranes normally have 2 or 3 axles that may be driven and/or steered, giving them their good maneuverability. Maximum lift capacity of such cranes is 221 tons. A new generation of cranes, which retain a single cabin but have reduced vehicle dimensions, are authorized to run on some public highways.

III. - ALL TERRAIN MOBILE CRANES

These cranes, sometimes termed road-going cranes, are operated mainly on highways (up to 50 mph) but can run on prepared sites as well. They are fitted with general purpose earthmover tires which are capable of the speeds required and have good adhesion and traction properties. Such cranes have two cabs - one from which the vehicle is driven on the road and the other from which the crane is operated with the vehicle stationary. The number of axles varies, ranging from 2 to 10, with tires fitted as singles and capable of carrying up to 12 metric tons or 13 tons per axle.

Several of the axles are driven and steered, which gives such cranes a high degree of maneuverability and flexibility. Their maximum lift capacity is 1000 metric tons or 1103 tons.

IV. - INDUSTRIAL CRANES

These are small machines, with a single cabin, normally fitted with 4 industrial tires, and are mainly used in industrial applications (warehouses, workshops, factories, etc.). Such machines are not used on public highways.

V. - RAPID INTERVENTION VEHICLES

Such vehicles are generally fitted with 3 axles which may all be driven and/or steered. Fitted with earthmover all terrain tires, they are capable of achieving high travel speeds. They have very good off-road capability and excellent maneuverability.

MILITARY AND RAPID INTERVENTION VEHICLES, FIRE ENGINES, CRANES

TREAD PATTERNS AND TIRES

MAIN SIZES (For characteristics see pages 46 to 121). Non Tubeless sizes are marked TT (Tube Type).

Tread Pattern	X SNOPLUS	XGC	XMH S	X CRANE AT
Tread Compound		C		
TRA CODE	E2	E2		E2
Max. dist. miles in 1 h	44	44	44	
Max. dist. km in 1 h	70	70	70	
385/95 R 24 (14.00 R 24) TT 170E	•		•	• 170 F
385/95 R 25 (14.00 R 25) 170E	•			• 170 F
445/95 R 25 (16.00 R 25) 177 E				• 174 F
445/80 R 25 (17.5 R 25) 170 E		•		
525/80 R 25 (20.5 R 25) 179E		•		

• Available

TIRES FOR SPECIAL APPLICATIONS, RAPID INTERVENTION VEHICLES, FIRE ENGINES, CRANES

DETERMINATION OF INFLATION PRESSURES

-**determine** the total weight of the machine,
- by using the machine manufacturer's data, or
- by weighing each axle.

- **calculate** the load per tire (in the case of a crane, divide the total weight by the number of axles, and divide by the number of tire per axle). Take into account any axle overload (for example: for cranes, overload due to counterweights).

- **use** the tables "Tire loads and pressures" for CRANES to determine the tire pressures.
  - in the case of vehicles used at high speeds over short distances or on yielding terrain, it may be possible to use lower pressures. (please consult us)

TIRES FOR COMPACTORS

COMPACTORS

Compactors are primarily used in public works applications. They are used for compacting the earth after preparing the land for further use and for finishing the construction of public highways.

Compactors may have different configurations:
- two axles with a steel roller front or rear, with slick tires on the other axle,
- front axle with steel roller, rear axle with patterned tires,
- 2 axles, both with 2, 3 or 4 slick tires on each axle.

X® LISSE

These tires are designed for use on compactors that use slick tires.

- They offer excellent performance on hot road surfaces (virtually eliminates material sticking to the tread),
- They have tread wear indicators.

Note:
Michelin® can supply tires with tread patterns for applications not requiring smooth-tread tires. Please consult Michelin® Earthmover.

Main sizes (see characteristics on pages 46 to 121):
- 7.50 R 15 X L C
- 8.25 R 15 X L C
- 10.00 R 20 X L C
- C 20 Pilot X L C Tubeless (11/80 R 20)
- E 20 Pilot X L C (13/80 R 20)
- 14.00 R 24 X L C
- 15.00 R 24 Pilot X L C (17/80 R 24)

DETERMINING INFLATION PRESSURE

The choice of tire and its working pressure depends on the material to be compacted, the type of work to be carried out and the operating speed.
Please refer to the information and operating guidelines supplied by the machine manufacturer and use the tables "Tire loads and pressures" for COMPACTORS.

NOTES

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **TREAD DESIGN** CAI (Part Number)	Max. dist. / hour **km** *Miles*	TKPH *TMPH* (1)	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (2) Michelin® dimensions						**Measuring Rim** Approved Rims (3) - (4)	Tubeless O-Ring CAI (4)	Tube Type Ref. Flap (4)
			e	D	E	e	D	R'	RC	Tread depth	Cap.			
			mm	**mm**	**mm**	**mm**	**mm**	**mm**	**mm**	**mm**	l			
			inches	*inches*	*inches*	*inches*	*inches*	*inches*	*inches*	*32nd*	*gallon*			
15"														
7.50 R 15 TubeType														
XLC C1 123461			**218** *8.6*	**780** *30.7*	**254** *10*	**198** *7.8*	**770** *30.3*	**338** *13.3*	**2324** *91.5*	**9** *11.3*	**40** *11*	5.5 **6.0** 6.00S 6.5 B6.5	-	15/16 J 15x6.00
X MINE D2 L5 123342	**6** *3.7*					**230** *9.1*	**840** *33.1*	**385** *15.2*	**2550** *100.4*	**46** *58*	**39** *10*	5.5 **6.0** 6.00S 6.5 B6.5	-	15/16 J 15x6.00
8.25 R 15 TubeType														
X MINE D2 L5 123352	**6** *3.7*					**250** *9.8*	**882** *34.7*	**402** *15.8*	**2680** *105.5*	**48** *60.5*	**47** *12*	6.0 **6.5** B6.5 7.0	-	15 K 15x7.50 15x6.00 15x6.00
10.00 R 15 TubeType														
X MINE D2 L5 123372	**6** *3.7*					**295** *11.6*	**910** *35.8*	**411** *16.2*	**2748** *108.2*	**48** *60.5*	**70** *18*	7.0 **7.5**	-	15 P 15x7.50
350/65 R 15 Tubeless (32x14.5 R 15)														
X MINE D2 L5 826683	**6** *3.7*					**348** *13.7*	**844** *33.2*	**379** *14.9*	**2543** *100.1*	**36** *45.4*	**91** *24*	10.50 **11.50**	-	- -
14.5 R 15 Tubeless														
X MINE D2 L5 123101	**6** *3.7*					**380** *15*	**894** *35.2*	**408** *16.1*	**2711** *106.7*	**48** *60.5*	**90** *24*	**10.50** 11.00BD 11.0 11.50	-	- -
400/80 R 15 Tubeless (38x16 R 15)														
X MINE D2 L5 735466	**6** *3.7*					**385** *15.2*	**996** *39.2*	**445** *17.5*	**2996** *118*	**34** *42.8*	**128** *34*	**11.50**	-	- -

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread Design	Identification code (9)	Explanations on how to choose the tire and to determine the inflation pressures Refer to explanations and methods allowing to determine the inflation pressures (10)	Size

15"

		APPLICATION	bar / *psi*	3 / *44*	3.5 / *51*	3.75 / *54*	4 / *58*	4.5 / *65*	5 / *73*	5.5 / *80*	6 / *87*	7 / *102*	8 / *116*	Size
XLC C1	C1	Compactors	**10 km/h**	**1250**	**1400**	**1470**	**1540**	**1680**	**1830**	**1970**	**2120**	**2420**	**2725**	7.50 R 15
			6mph	2756	3087	3241	3396	3704	4035	4344	4675	5336	6009	
			15 km/h	**1020**	**1135**	**1190**	**1250**	**1375**	**1500**	**1600**	**1700**	**1980**	**2180**	
			9 mph	2249	2503	2624	2756	3032	3308	3528	3749	4366	4807	
X MINE D2 L5	L5	Loaders	Front laden	**1850**	**2000**	**2075**	**2150**	**2250**	**2400**	**2500**	**2650**	**2900**	**3150**	
				4079	4410	4575	4741	4961	5292	5513	5843	6395	6946	
			Rear unladen	**1475**	**1600**	**1650**	**1725**	**1800**	**1925**	**2000**	**2125**	**2325**	**2525**	
				3252	3528	3638	3804	3969	4245	4410	4686	5127	5568	
X MINE D2 L5	L5	Underground machines*	Front and Rear	**1675**	**1800**	**1875**	**1925**	**2025**	**2150**	**2250**	**2375**	**2600**	**2825**	
				3693	3969	4134	4245	4465	4741	4961	5237	5733	6229	

		APPLICATION	bar / *psi*	3 / *44*	3.5 / *51*	4 / *58*	4.5 / *65*	5 / *73*	5.5 / *80*	6 / *87*	6.5 / *94*	7 / *102*	8 / *116*	Size
X MINE D2 L5	L5	Loaders	Front laden	**2000**	**2200**	**2300**	**2400**	**2550**	**2700**	**2850**	**3000**	**3300**	**3600**	8.25 R 15
				4410	4851	5072	5292	5623	5954	6284	6615	7277	7938	
			Rear unladen	**1600**	**1750**	**1850**	**1925**	**2050**	**2150**	**2275**	**2400**	**2650**	**2875**	
				3528	3859	4079	4245	4520	4741	5016	5292	5843	6339	
X MINE D2 L5	L5	Underground machines*	Front and Rear	**1800**	**1975**	**2075**	**2150**	**2300**	**2425**	**2575**	**2700**	**2975**	**3250**	
				3969	4355	4575	4741	5072	5347	5678	5954	6560	7166	

		APPLICATION	bar / *psi*	3 / *44*	3.5 / *51*	4 / *58*	4.5 / *65*	5 / *73*	5.5 / *80*	6 / *87*	6.5 / *94*	7 / *102*	8 / *116*	Size
X MINE D2 L5	L5	Loaders	Front laden	**2400**	**2600**	**2800**	**3000**	**3200**	**3350**	**3500**	**3700**	**3900**	**4300**	10.00 R 15
				5292	5733	6174	6615	7056	7387	7718	8159	8600	9482	
			Rear unladen	**1925**	**2075**	**2250**	**2400**	**2550**	**2675**	**2800**	**2965**	**3125**	**3450**	
				4245	4575	4961	5292	5623	5898	6174	6538	6891	7607	
X MINE D2 L5	L5	Underground machines*	Front and Rear	**2150**	**2350**	**2525**	**2700**	**2875**	**3025**	**3150**	**3325**	**3500**	**3875**	
				4741	5182	5568	5954	6339	6670	6946	7332	7718	8544	

		APPLICATION	bar / *psi*	3 / *44*	3.5 / *51*	3.75 / *54*	4 / *58*	4.5 / *65*	5 / *73*	5.5 / *80*	6 / *87*	7 / *102*	8 / *116*	Size
X MINE D2 L5	L5	Loaders	Front laden	**2400**	**2660**	**2790**	**2920**	**3150**	**3400**	**3570**	**3750**	**4200**	**4600**	350/65 R 15 (32x14.5 R 15)
				5292	5865	6152	6439	6946	7497	7872	8269	9261	10143	
			Rear unladen	**1920**	**2128**	**2232**	**2336**	**2520**	**2720**	**2856**	**3000**	**3360**	**3680**	
				4234	4692	4922	5151	5557	5998	6297	6615	7409	8114	
X MINE D2 L5	L5	Underground machines*	Front and Rear	**2160**	**2394**	**2511**	**2628**	**2835**	**3060**	**3213**	**3375**	**3780**	**4140**	
				4763	5279	5537	5795	6251	6747	7085	7442	8335	9129	
X MINE D2 L5	L5	Loaders	Front laden	**2550**	**2850**	**2975**	**3100**	**3350**	**3600**	**3850**	**4100**	**4600**	**5100**	14.5 R 15
				5623	6284	6560	6836	7387	7938	8489	9041	10143	11246	
			Rear unladen	**2050**	**2275**	**2375**	**2475**	**2675**	**2875**	**3075**	**3275**	**3675**	**4075**	
				4520	5016	5237	5457	5898	6339	6780	7221	8103	8985	
X MINE D2 L5	L5	Underground machines*	Front and Rear	**2300**	**2575**	**2675**	**2800**	**3025**	**3250**	**3475**	**3700**	**4150**	**4600**	
				5072	5678	5898	6174	6670	7166	7662	8159	9151	10143	
X MINE D2 L5	L5	Loaders	Front laden	**3300**	**3650**	**3825**	**400**	**4350**	**4700**	**5050**	**5400**	**6100**	**6600**	400/80 R 15 (38x16 R 15)
				7277	8048	8434	882	9592	10364	11135	11907	13451	14553	
			Rear unladen	**2650**	**2925**	**3050**	**3200**	**3475**	**3750**	**4050**	**4325**	**4875**	**5275**	
				5843	6450	6725	7056	7662	8269	8930	9537	10749	11631	
X MINE D2 L5	L5	Underground machines*	Front and Rear	**2975**	**3275**	**3450**	**3600**	**3900**	**4225**	**4550**	**4850**	**5500**	**5950**	
				6560	7221	7607	7938	8600	9316	10033	10694	12128	13120	

*See page 39-41

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **TREAD DESIGN** CAI (Part Number)	Max. dist. / hour **km** *Miles*	TKPH *TMPH* (1)	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (2) Michelin® dimensions						**Measuring Rim** Approved Rims (3) - (4)	Tubeless O-Ring CAI (4)	Tube Type Ref. Flap (4)
			e	D	E	e	D	R'	RC	Tread depth	Cap.			
			mm *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *32nd*	l *gallon*			
15"														
27x8.50 R 15 Tubeless														
STABIL'X XZSL L3 **117A5** 123855	**25** *15.5*					**237** *9.3*	**680** *26.8*	**313** *12.3*	**2068** *81.4*	**15** *18.9*	**35** *9*	7J **7.00**	-	- -
16"														
11 L R 16 Tubeless														
XM27 122A8 123207			**304** *12*	**872** *34.3*		**291** *11.5*	**850** *33.5*	**375** *14.8*	**2515** *99*	**23** *29*	**80** *21*	**W8** W10L	-	16 P15 -
16.5"														
10 R 16.5 Tubeless														
STABIL'X XZSL L3 **128A5** 110546	**25** *15.5*					**267** *10.5*	**773** *30.4*	**350** *13.8*	**2335** *91.9*	**20** *25.2*	**60** *16*	8.25	-	- -
12 R 16.5 Tubeless														
STABIL'X XZSL L3 **141A5** 110820	**25** *15.5*					**312** *12.3*	**831** *32.7*	**370** *14.6*	**2495** *98.2*	**23** *29*	**86** *23*	**9.75**	-	- -
18"														
280/80 R 18 Tubeless														
XMCL 132A8 **130B** 779803			**282** *11.1*	**905** *35.6*	**389** *15.3*	**290** *11.4*	**908** *35.7*	**415** *16.3*	**2708** *106.6*	**28** *35.3*	**90** *24*	W8 **W9** W10	-	KLEBER 438 -
335/80 R 18 Tubeless (12.5 R 18)														
XZSL 151A2 **139B** 122999			**356** *14*	**1015** *40*		**345** *13.6*	**995** *39.2*	**445** *17.5*	**2995** *117.9*	**26** *32.8*	**123** *32*	DW10 W10 W10L W11 **DW11**	-	KLEBER 444 -

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread Design	Identification code (9)	Explanations on how to choose the tire and to determine the inflation pressures Refer to explanations and methods allowing to determine the inflation pressures (10)											Size
15"													
		APPLICATION	**bar**	**1.5**	**2**	**2.5**	**3**	**3.5**	**3.75**				
			psi	*22*	*29*	*36*	*44*	*51*	*54*				
STABIL'X XZSL L3	L3	Skid Steers	Front and Rear	**540**	**830**	**920**	**1100**	**1225**	**1285**				27x8.50 R15
				1191	1830	2029	2426	2701	2833				
16"													
		APPLICATION	**bar**	**0.6**	**1**	**1.4**	**1.6**	**1.9**	**2**	**2.4**	**2.7**		
			psi	*9*	*15*	*20*	*23*	*28*	*29*	*35*	*39*		
XM27		Backhoe loaders	**10 km/h**	**870**	**1130**	**1390**	**1530**	**1720**	**1790**	**2050**	**2250**		11 L R 16
			6mph	1918	2492	3065	3374	3793	3947	4520	4961		
			30 km/h	**610**	**830**	**1050**	**1160**	**1330**	**1380**	**1610**			
			19mph	1345	1830	2315	2558	2933	3043	3550			
			40 km/h	**570**	**780**	**990**	**1090**	**1240**	**1290**	**1500**			
			25mph	1257	1720	2183	2403	2734	2844	3308			
16.5"													
		APPLICATION	**bar**	**1.5**	**2**	**2.5**	**3**	**3.5**	**3.75**				
			psi	*22*	*29*	*36*	*44*	*51*	*54*				
STABIL'X XZSL L3	L3	Skid Steers	Front and Rear	**980**	**1170**	**1380**	**1570**	**1725**	**1800**				10 R 16.5
				2161	2580	3043	3462	3804	3969				
STABIL'X XZSL L3	L3	Skid Steers	Front and Rear	**1425**	**1675**	**1875**	**2200**	**2450**	**2575**				12 R 16.5
				3142	3693	4134	4851	5402	5678				
18"													
		APPLICATION	**bar**	**1.6**	**2**	**2.4**	**2.8**	**3.2**	**3.6**	**4**	**4.4**		
			psi	*23*	*29*	*35*	*41*	*46*	*52*	*58*	*64*		
XMCL		Backhoe loaders	Static	**1800**	**2200**	**2600**	**3000**	**3400**	**3800**	**4200**	**4600**		280/80 R 18
				3969	4851	5733	6615	7497	8379	9261	10143		
			Cyclic	**1170**	**1430**	**1700**	**1960**	**2220**	**2480**	**2740**	**3000**		
				2580	3153	3749	4322	4895	5468	6042	6615		
			30 km/h	**1020**	**1210**	**1400**	**1580**	**1770**	**1950**	**2140**			
			19mph	2249	2668	3087	3484	3903	4300	4719			
			40 km/h	**950**	**1120**	**1300**	**1475**	**1650**	**1825**	**2000**			
			25mph	2095	2470	2867	3252	3638	4024	4410			
		APPLICATION	**bar**	**1**	**1.6**	**1.9**	**2.7**	**3**	**3.2**	**3.5**	**3.8**		
			psi	*15*	*23*	*28*	*39*	*44*	*46*	*51*	*55*		
XZSL		Backhoe loaders	**10 km/h**	**1510**	**1930**	**2130**	**2690**	**2900**	**3030**	**3240**	**3450**		335/80 R 18
			6mph	3330	4256	4697	5931	6395	6681	7144	7607		
			30 km/h	**1210**	**1540**	**1710**	**2150**	**2320**	**2430**	**2590**	**2760**		
			19mph	2668	3396	3771	4741	5116	5358	5711	6086		
			40 km/h	**1100**	**1410**	**1560**	**1960**	**2110**	**2220**	**2370**	**2520**		
			25mph	2426	3109	3440	4322	4653	4895	5226	5557		
			50 km/h	**1060**	**1360**	**1500**	**1890**	**2040**	**2140**	**2280**	**2430**		
			31mph	2337	2999	3308	4167	4498	4719	5027	5358		

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **TREAD DESIGN** CAI (Part Number)	Max. dist. / hour **km** *Miles*	TKPH *TMPH* (1)	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (2) Michelin® dimensions						**Measuring Rim** Approved Rims (3) - (4)	Tubeless O-Ring CAI (4)	Tube Type Ref. Flap (4)
			e	D	E	e	D	R'	RC	Tread depth	Cap.			
			mm *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *32nd*	l *gallon*			
18"														
340/80 R 18 Tubeless														
XMCL 143A8 **143B** 100054			**343** *13.5*	**1001** *39.4*	**462** *18.2*	**351** *13.8*	**996** *39.2*	**448** *17.6*	**2959** *116.5*	**30** *37.8*	**141** *37*	W10 11 SDC **11.00** W11 12 SDC 12	-	K057866 -
19.5"														
18 R 19.5 Tubeless														
XF* 255201			**507** *20*	**1149** *45.2*		**449** *17.7*	**1114** *43.9*	**493** *19.4*	**3339** *131.5*	**18** *22.7*	**220** *58*	**14.00**	-	19.5/20.5 UD -
20"														
9.00 R 20 TubeType														
X MINE D2 **L5R *** 123382	**6** *3.7*					**277** *10.9*	**1054** *41.5*	**484** *19.1*	**3203** *126.1*	**51** *64.3*	**98** *26*	6.5 - B6.5 **7.0** 7.0T B 7.0 7.33V B7.5 7.5	- A20 553004	20 M 20x7.50
10.00 R 20 TubeType														
XLC C1 240600 (8)			**297** *11.7*	**1060** *41.7*	**330** *13*	**271** *10.7*	**1044** *41.1*	**472** *18.6*	**3154** *124.2*	**12** *15.1*	**110** *29*	7.0 - B 7.0 7.0T - 7.33V B 7.5 **7.5** 8.00V B 8.0 8.0 - 8.0V	- A20 553004	20 M 20x7.50
C20 Pilote TubeType (11/80 R 20)														
XLC C1 240550 (8)			**304** *12*	**974** *38.3*	**338** *13.3*	**280** *11*	**964** *38*	**439** *17.3*	**2919** *114.9*	**12** *15.1*	**120** *32*	7.33V 8.0V **8.0**	- A20 553004	20 M 20x8.50

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread Design	Identification code (9)	Explanations on how to choose the tire and to determine the inflation pressures Refer to explanations and methods allowing to determine the inflation pressures (10)	Size

18"

		APPLICATION	bar / psi	1.6 / 23	2 / 29	2.4 / 35	2.8 / 41	3.2 / 46	3.6 / 52	4 / 58	4.4 / 64			Size
XMCL		Backhoe loaders	Static	**2450**	**3000**	**3540**	**4090**	**4630**	**5180**	**5720**	**6270**			340/80 R 18
				5402	6615	7806	9018	10209	11422	12613	13825			
			Cyclic	**1600**	**1950**	**2310**	**2670**	**3020**	**3380**	**3730**	**4090**			
				3528	4300	5094	5887	6659	7453	8225	9018			
			30 km/h	**1390**	**1650**	**1900**	**2160**	**2410**	**2660**	**2920**				
			19mph	3065	3638	4190	4763	5314	5865	6439				
			40 km/h	**1320**	**1550**	**1780**	**2010**	**2240**	**2580**	**2725**				
			25mph	2911	3418	3925	4432	4939	5689	6009				

19.5"

		APPLICATION	bar / psi	3 / 44	3.5 / 51	4 / 58	4.5 / 65	5 / 73	5.5 / 80	6 / 87	6.5 / 94	7 / 102	7.5 / 109	Size
XF*		Wheeled Excavators	**10 km/h**	**3875**	**4170**	**4465**	**4760**	**5055**	**5345**	**5640**	**5935**	**6230**	**6525**	18 R 19.5
			6mph	8544	9195	9845	10496	11146	11786	12436	13087	13737	14388	
			20 km/h	**3285**	**3570**	**3855**	**4140**	**4425**	**4710**	**4995**	**5280**	**5565**	**5850**	
			12mph	7243	7872	8500	9129	9757	10386	11014	11642	12271	12899	
			30 km/h	**2835**	**3120**	**3405**	**3690**	**3975**	**4260**	**4545**	**4830**	**5115**	**5400**	
			19mph	6251	6880	7508	8136	8765	9393	10022	10650	11279	11907	
			40 km/h	**2115**	**2380**	**2645**	**2910**	**3175**	**3440**	**3705**	**3970**	**4235**	**4500**	
			25mph	4664	5248	5832	6417	7001	7585	8170	8754	9338	9923	

20"

		APPLICATION	bar / psi	3 / 44	4 / 58	5 / 73	6 / 87	7 / 102	8 / 116					Size
X MINE D2 * L5R	L5R	Loaders	Front laden	**3000**	**3400**	**3800**	**4200**	**4600**	**5000**					9.00 R 20
				6615	7497	8379	9261	10143	11025					
			Rear unladen	**2400**	**2700**	**3050**	**3350**	**3700**	**4000**					
				5292	5954	6725	7387	8159	8820					
X MINE D2 * L5R	L5R	Underground machines (see page 39-41)	Front and Rear	**2700**	**3050**	**3400**	**3800**	**4150**	**4500**					
				5954	6725	7497	8379	9151	9923					

		APPLICATION	bar / psi	3 / 44	4 / 58	5 / 73	6 / 87	7 / 102	8 / 116	8.5 / 123	9 / 131	9.5 / 138		Size
XLC C1	C1	Compactors	**10 km/h**	**2080**	**2570**	**3060**	**3550**	**4040**	**4530**	**4770**	**5020**	**5260**		10.00 R 20
			6mph	4586	5667	6747	7828	8908	9989	10518	11069	11598		
			15 km/h	**1830**	**2260**	**2690**	**3120**	**3560**	**3990**	**4210**				
			9 mph	4035	4983	5931	6880	7850	8798	9283				

		APPLICATION	bar / psi	3 / 44	4 / 58	5 / 73	6 / 87	7 / 102	8 / 116	8.5 / 123	9 / 131	9.5 / 138	10 / 145	Size
XLC C1	C1	Compactors	**10 km/h**	**1860**	**2240**	**2630**	**3010**	**3400**	**3780**	**3970**	**4170**	**4360**	**4550**	C20 Pilote
			6mph	4101	4939	5799	6637	7497	8335	8754	9195	9614	10033	
			15 km/h	**1660**	**1990**	**2340**	**2680**	**3030**	**3360**	**3530**	**3675**			
			9 mph	3660	4388	5160	5909	6681	7409	7784	8103			

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **TREAD DESIGN** CAI (Part Number)	Max. dist. / hour **km** *Miles*	TKPH *TMPH* (1)	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (2) Michelin® dimensions						**Measuring Rim** Approved Rims (3) - (4)	Tubeless O-Ring CAI (4)	Tube Type Ref. Flap (4)
			e	D	E	e	D	R'	RC	Tread depth	Cap.			
			mm *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *32nd*	l *gallon*			
20"														
280/80 R 20 Tubeless														
XMCL 133A8 **133B** 747442			**282** *11.1*	**956** *37.6*	**389** *15.3*	**292** *11.5*	**958** *37.7*	**439** *17.3*	**2860** *112.6*	**29** *36.5*	**97** *26*	W8 **W9** W10	- -	K171111 -
12.00 R 20 TubeType														
X MINE D2 L5R 123392	**6** *3.7*					**323** *12.7*	**1174** *46.2*	**535** *21.1*	**3558** *140.1*	**57** *71.8*	**146** *39*	8.0 8.5V **8.5** B 8.5 8.50V 9.00V 9.0	- -	20 Q 20x8.50
E20 Pilote TubeType (13/80 R 20)														
XLC C1 240750			**352** *13.9*	**1069** *42.1*	**391** *15.4*	**322** *12.7*	**1050** *41.3*	**470** *18.5*	**3160** *124.4*	**12** *15.1*	**140** *37*	7.33V - 7.5 B 7.5 - 8.0 B8.0 - 8.0V 8.00V - 8.5 B B8.5 - 8.50V 9.00V - 10.0 - 10.00V **9.0**	- -	20 P 20x8.50
335/80 R 20 Tubeless														
XZSL 153A2 **141B** 792581			**356** *14*	**1066** *42*		**337** *13.3*	**1068** *42*	**476** *18.7*	**3209** *126.3*	**25** *31.5*		W10 **11DC** 11 SDC	- OR 6.6-20 (R1681) 553215	KLEBER 444 -
340/80 R 20 Tubeless														
XMCL 144A8 **144B** 948730			**343** *13.5*	**1052** *41.4*	**462** *18.2*	**353** *13.9*	**1047** *41.2*	**476** *18.7*	**3119** *122.8*	**29** *36.5*	**152** *40*	W10 11 SDC **11.00** W11 12 SDC 12	- -	KLEBER 664 -

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread Design	Identification code (9)	Explanations on how to choose the tire and to determine the inflation pressures Refer to explanations and methods allowing to determine the inflation pressures (10)	Size

20"

		APPLICATION	bar / psi										
			bar	1.6	2	2.4	2.8	3.2	3.6	4	4.4		
			psi	*23*	*29*	*35*	*41*	*46*	*52*	*58*	*64*		
XMCL		Backhoe loaders	Static	**1850**	**2260**	**2675**	**3090**	**3500**	**3910**	**4330**	**4740**		**280/80 R 20**
				4079	4983	5898	6813	7718	8622	9548	10452		
			Cyclic	**1210**	**1480**	**1745**	**2020**	**2280**	**2550**	**2820**	**3090**		
				2668	3263	3848	4454	5027	5623	6218	6813		
			30 km/h	**1050**	**1240**	**1435**	**1630**	**1820**	**2010**	**2200**			
			19mph	2315	2734	3164	3594	4013	4432	4851			
			40 km/h	**975**	**1155**	**1340**	**1520**	**1700**	**1880**	**2060**			
			25mph	2150	2547	2955	3352	3749	4145	4542			

		APPLICATION	bar / psi										
			bar	3	4	5	6	7	8				
			psi	*44*	*58*	*73*	*87*	*102*	*116*				
X MINE D2 L5R	L5R	Loaders	Front laden	3400	4000	4600	5200	5800	6400				**12.00 R 20**
				7497	8820	10143	11466	12789	14112				
			Rear unladen	2700	3200	3700	4150	4650	5100				
				5954	7056	8159	9151	10253	11246				
X MINE D2 L5R	L5R	Underground machines (see page 39-41)	Front and Rear	3050	3600	4150	4700	5200	5750				
				6725	7938	9151	10364	11466	12679				

		APPLICATION	bar / psi										
			bar	3	4	5	6	7	8	8.5	9		
			psi	*44*	*58*	*73*	*87*	*102*	*116*	*123*	*131*		
XLC C1	C1	Compactors	**10 km/h**	**2520**	**3100**	**3660**	**4260**	**4840**	**5420**	**5710**	**6000**		**E20 Pilote**
			6mph	5557	6836	8070	9393	10672	11951	12591	13230		
			15 km/h	**2240**	**2760**	**3260**	**3790**	**4310**	**4820**	**5000**			
			9 mph	4939	6086	7188	8357	9504	10628	11025			

		APPLICATION	bar / psi										
			bar	1	1.6	1.9	2.7	3	3.2	3.5	3.8		
			psi	*15*	*23*	*28*	*39*	*44*	*46*	*51*	*55*		
XZSL		Backhoe loaders	**10 km/h**	**1600**	**2040**	**2260**	**2840**	**3060**	**3210**	**3430**	**3650**		**335/80 R 20**
			6mph	3528	4498	4983	6262	6747	7078	7563	8048		
			30 km/h	**1280**	**1630**	**1810**	**2280**	**2450**	**2570**	**2740**	**2920**		
			19mph	2822	3594	3991	5027	5402	5667	6042	6439		
			40 km/h	**1170**	**1490**	**1650**	**2080**	**2240**	**2340**	**2500**	**2660**		
			25mph	2580	3285	3638	4586	4939	5160	5513	5865		
			50 km/h	**1130**	**1440**	**1590**	**2010**	**2160**	**2260**	**2420**	**2575**		
			31mph	2492	3175	3506	4432	4763	4983	5336	5678		

		APPLICATION	bar / psi										
			bar	1.6	2	2.4	2.8	3.2	3.6	4	4.4		
			psi	*23*	*29*	*35*	*41*	*46*	*52*	*58*	*64*		
XMCL		Backhoe loaders	Static	**2520**	**3080**	**3640**	**4200**	**4760**	**5320**	**5880**	**6440**		**340/80 R 20**
				5557	6791	8026	9261	10496	11731	12965	14200		
			Cyclic	**1640**	**2005**	**2370**	**2740**	**3105**	**3470**	**3835**	**4200**		
				3616	4421	5226	6042	6847	7651	8456	9261		
			30 km/h	**1430**	**1690**	**1950**	**2210**	**2470**	**2735**	**3000**			
			19mph	3153	3726	4300	4873	5446	6031	6615			
			40 km/h	**1360**	**1595**	**1830**	**2065**	**2300**	**2550**	**2800**			
			25mph	2999	3517	4035	4553	5072	5623	6174			

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **TREAD DESIGN** CAI (Part Number)	Max. dist. / hour **km** *Miles*	TKPH *TMPH* (1)	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (2) Michelin® dimensions						**Measuring Rim** Approved Rims (3) - (4)	Tubeless O-Ring CAI (4)	Tube Type Ref. Flap (4)
			e	D	E	e	D	R'	RC	Tread depth	Cap.			
			mm *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *32nd*	l *gallon*			
20"														
14.00 R 20 Tubeless														
X MINE D2 L5R 372138	**6** *3.7*					**368** *14.5*	**1236** *48.7*	**557** *21.9*	**3745** *147.4*	**48** *60.5*	**175** *46*	10.00W **10.00**	-	20 Q 20x10.00
375/75 R 20 Tubeless														
XZSL 155A2 **143B** 122989			**396** *15.6*	**1092** *43*		**395** *15.6*	**1067** *42*	**481** *18.9*	**3219** *126.7*	**29** *36.5*	**162** *43*	W10 **11DC** 11 SDC	- OR 6.6-20 (R1681) 553215	KLEBER 664 -
380/75 R 20 Tubeless														
XMCL 148A8 **148B** 187752			**380** *15*	**1078** *42.4*	**507** *20*	**384** *15.1*	**1072** *42.2*	**481** *18.9*	**3199** *125.9*	**33** *41.6*	**181** *48*	11.0 W11 **W12** 12	-	KLEBER 664 -
400/70 R 20 Tubeless														
XMCL 149A8 **149B** 474495			**404** *15.9*	**1068** *42*	**536** *21.1*	**412** *16.2*	**1069** *42.1*	**481** *18.9*	**3177** *125.1*	**33** *41.6*	**187** *49*	12 SDC 12 13SDC **13.00** 14	-	KLEBER 664 -
405/70 R 20 Tubeless														
XZSL 155A2 **143B** 753584			**452** *17.8*	**1121** *44.1*		**409** *16.1*	**1102** *43.4*	**492** *19.4*	**3314** *130.5*	**30** *37.8*	**202** *53*	W10 11DC 11 SDC 12 DC 13 SDC **13 DC**	- OR 6.6-20 (R1681) 553215	KLEBER 664 -

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread Design	Identification code (9)	Explanations on how to choose the tire and to determine the inflation pressures Refer to explanations and methods allowing to determine the inflation pressures (10)	Size

20"

		APPLICATION	bar	3	4	5	5.5	6	6.5	7	8	8.5		
			psi	*44*	*58*	*73*	*80*	*87*	*94*	*102*	*116*	*123*		
X MINE D2 L5R	L5R	Loaders	Front laden	**4140**	**4920**	**5690**	**6070**	**6460**	**6850**	**7230**	**8010**			**14.00 R 20**
				9129	10849	12546	13384	14244	15104	15942	17662			
			Rear unladen	**2430**	**3100**	**3770**	**4100**	**4430**	**4770**	**5100**	**5770**			
				5358	6836	8313	9041	9768	10518	11246	12723			
X MINE D2 L5R	L5R	Underground machines (see page 39-41)	Front and Rear	**3480**	**4200**	**4920**	**5280**	**5640**	**6000**	**6360**	**7070**	**7793**		
				7673	9261	10849	11642	12436	13230	14024	15589	17184		

		APPLICATION	bar	1	1.6	1.9	2.7	3	3.2	3.5	3.8			
			psi	*15*	*23*	*28*	*39*	*44*	*46*	*51*	*55*			
XZSL		Backhoe loaders	**10 km/h**	**1700**	**2160**	**2400**	**3020**	**3250**	**3410**	**3640**	**3880**			**375/75 R 20**
			6mph	3749	4763	5292	6659	7166	7519	8026	8555			
			30 km/h	**1360**	**1730**	**1920**	**2420**	**2600**	**2730**	**2910**	**3100**			
			19mph	2999	3815	4234	5336	5733	6020	6417	6836			
			40 km/h	**1240**	**1580**	**1750**	**2200**	**2370**	**2490**	**2660**	**2830**			
			25mph	2734	3484	3859	4851	5226	5490	5865	6240			
			50 km/h	**1190**	**1520**	**1690**	**2120**	**2290**	**2400**	**2560**	**2725**			
			31mph	2624	3352	3726	4675	5049	5292	5645	6009			

		APPLICATION	bar	1.6	2	2.4	2.8	3.2	3.6	4	4.4			
			psi	*23*	*29*	*35*	*41*	*46*	*52*	*58*	*64*			
XMCL		Backhoe loaders	Static	**2840**	**3470**	**4100**	**4730**	**5360**	**5990**	**6620**	**7250**			**380/75 R 20**
				6262	7651	9041	10430	11819	13208	14597	15986			
			Cyclic	**1850**	**2260**	**2670**	**3080**	**3490**	**3900**	**4310**	**4730**			
				4079	4983	5887	6791	7695	8600	9504	10430			
			30 km/h	**1610**	**1900**	**2200**	**2490**	**2780**	**3080**	**3370**				
			19mph	3550	4190	4851	5490	6130	6791	7431				
			40 km/h	**1500**	**1770**	**2040**	**2300**	**2575**	**2860**	**3150**				
			25mph	3308	3903	4498	5072	5678	6306	6946				

		APPLICATION	bar	1.6	2	2.4	2.8	3.2	3.6	3.8	4	4.4		
			psi	*23*	*29*	*35*	*41*	*46*	*52*	*55*	*58*	*64*		
XMCL		Backhoe loaders	Static	**2930**	**3580**	**4230**	**4880**	**5530**	**6180**	**6505**	**6830**	**7480**		**400/70 R 20**
				6461	7894	9327	10760	12194	13627	14344	15060	16493		
			Cyclic	**1910**	**2330**	**2760**	**3180**	**3600**	**4030**	**4240**	**4450**	**4880**		
				4212	5138	6086	7012	7938	8886	9349	9812	10760		
			30 km/h	**1660**	**1960**	**2270**	**2570**	**2870**	**3180**	**3330**	**3480**			
			19mph	3660	4322	5005	5667	6328	7012	7343	7673			
			40 km/h	**1550**	**1825**	**2100**	**2375**	**2650**	**2950**	**3100**	**3250**			
			25mph	3418	4024	4631	5237	5843	6505	6836	7166			

		APPLICATION	bar	1	1.6	1.9	2.7	3	3.2	3.5	3.8			
			psi	*15*	*23*	*28*	*39*	*44*	*46*	*51*	*55*			
XZSL		Backhoe loaders	**10 km/h**	**1700**	**2160**	**2400**	**3020**	**3250**	**3410**	**3640**	**3880**			**405/70 R 20**
			6mph	3749	4763	5292	6659	7166	7519	8026	8555			
			30 km/h	**1360**	**1730**	**1920**	**2420**	**2600**	**2730**	**2910**	**3100**			
			19mph	2999	3815	4234	5336	5733	6020	6417	6836			
			40 km/h	**1240**	**1580**	**1750**	**2200**	**2370**	**2490**	**2660**	**2830**			
			25mph	2734	3484	3859	4851	5226	5490	5865	6240			
			50 km/h	**1190**	**1520**	**1690**	**2120**	**2290**	**2400**	**2560**	**2725**			
			31mph	2624	3352	3726	4675	5049	5292	5645	6009			

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **TREAD DESIGN** CAI (Part Number)	Max. dist. / hour **km** *Miles*	TKPH *TMPH* (1)	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (2) Michelin® dimensions						**Measuring Rim** Approved Rims (3) - (4)	Tubeless O-Ring CAI (4)	Tube Type Ref. Flap (4)
			e	D	E	e	D	R'	RC	Tread depth	Cap.			
			mm	**mm**	**mm**	**mm**	**mm**	**mm**	**mm**	**mm**	l			
			inches	*inches*	*inches*	*inches*	*inches*	*inches*	*inches*	*32nd*	*gallon*			
20"														
16.00 R 20 Tubeless														
XZL E2 **173G** 123357	**70** *43.5*		**466** *18.3*	**1381** *54.4*		**438** *17.2*	**1343** *52.9*	**615** *24.2*	**4080** *160.6*	**27** *34*	**315** *83*	**10.00W** 11.25 (b)	- A20 553004	20 V 20x10.00
420/75 R 20 Tubeless														
XMCL 154A8 **154B** 967201			**418** *16.5*	**1138** *44.8*	**552** *21.7*	**428** *16.9*	**1138** *44.8*	**509** *20*	**3378** *133*	**33** *41.6*	**229** *61*	12 SDC 12 13 SDC **13.00** 14	-	KLEBER 829 -
425/75 R 20 Tubeless														
XZSL 167A2 **155B** 122979			**442** *17.4*	**1172** *46.1*		**434** *17.1*	**1142** *45*	**488** *19.2*	**3390** *133.5*	**29** *36.5*	**240** *63*	11DC 11SDC W11 DW11 13SDC **13 DC** W13	- OR 6.6-20 (R1681) 553215	KLEBER 829 -

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread Design	Identification code (9)	Explanations on how to choose the tire and to determine the inflation pressures Refer to explanations and methods allowing to determine the inflation pressures (10)	Size

20"

		APPLICATION	bar	2	3	4	5	6	7	8	8.5	9	10	
			psi	*29*	*44*	*58*	*73*	*87*	*102*	*116*	*123*	*131*	*145*	
			(a)											
XZL E2	E2	Cranes	**0 km/h**	**3580**	**4830**	**6125**	**7390**	**8660**	**9900**	**11200**	**12075**	**12950**	**14700**	**16.00 R 20**
			0mph	7894	10650	13506	16295	19095	21830	24696	26625	28555	32414	
			5 km/h	**2850**	**3950**	**5000**	**6100**	**7200**	**8100**	**9250**	**9825**	**10400**	**11550**	
			3mph	6284	8710	11025	13451	15876	17861	20396	21664	22932	25468	
			10 km/h	**2750**	**3750**	**4750**	**5750**	**6700**	**7600**	**8700**	**9125**	**9550**	**10600**	
			6mph	6064	8269	10474	12679	14774	16758	19184	20121	21058	23373	
			20 km/h	**2500**	**3250**	**4250**	**5000**	**6000**	**6860**	**7600**	**8075**	**8550**	**9500**	
			12mph	5513	7166	9371	11025	13230	15126	16758	17805	18853	20948	
			30 km/h	**2250**	**3000**	**3750**	**4500**	**5250**	**6000**	**6860**	**7225**	**7590**		
			19mph	4961	6615	8269	9923	11576	13230	15126	15931	16736		
			40 km/h	**2000**	**2750**	**3550**	**4250**	**5000**	**5750**	**6500**	**6830**	**7160**		
			25mph	4410	6064	7828	9371	11025	12679	14333	15060	15788		
			50 km/h	**1950**	**2700**	**3500**	**4200**	**4900**	**5700**	**6350**	**6725**	**7100**		
			31mph	4300	5954	7718	9261	10805	12569	14002	14829	15656		
			65 km/h	**1850**	**2650**	**3400**	**4150**	**4850**	**5550**	**6300**	**6650**	**7000**		
			40mph	4079	5843	7497	9151	10694	12238	13892	14663	15435		
			80 km/h	**1800**	**2600**	**3350**	**4100**	**4800**	**5500**	**6250**	**6550**	**6850**		
			50mph	3969	5733	7387	9041	10584	12128	13781	14443	15104		
			90 km/h	**1750**	**2550**	**3300**	**4050**	**4750**	**5450**	**6200**	**6500**			
			56 mph	3859	5623	7277	8930	10474	12017	13671	14333			

		APPLICATION	bar	1.6	2	2.4	2.8	3.2	3.6	4	4.4			
			psi	*23*	*29*	*35*	*41*	*46*	*52*	*58*	*64*			
XMCL		Backhoe loaders	Static	**3380**	**4130**	**4880**	**5630**	**6380**	**7130**	**7880**	**8630**			**420/75 R 20**
				7453	9107	10760	12414	14068	15722	17375	19029			
			Cyclic	**2200**	**2690**	**3180**	**3670**	**4160**	**4650**	**5140**	**5630**			
				4851	5931	7012	8092	9173	10253	11334	12414			
			30 km/h	**1920**	**2270**	**2620**	**2960**	**3310**	**3660**	**4010**				
			19mph	4234	5005	5777	6527	7299	8070	8842				
			40 km/h	**1800**	**2120**	**2440**	**2755**	**3075**	**3410**	**3750**				
			25mph	3969	4675	5380	6075	6780	7519	8269				

		APPLICATION	bar	1	1.6	1.9	2.7	3	3.2	3.5	3.8			
			psi	*15*	*23*	*28*	*39*	*44*	*46*	*51*	*55*			
XZSL		Backhoe loaders	**10 km/h**	**2390**	**3040**	**3370**	**4250**	**4570**	**4790**	**5120**	**5450**			**425/75 R 20**
			6mph	5270	6703	7431	9371	10077	10562	11290	12017			
			30 km/h	**1910**	**2430**	**2700**	**3400**	**3660**	**3830**	**4100**	**4360**			
			19mph	4212	5358	5954	7497	8070	8445	9041	9614			
			40 km/h	**1740**	**2220**	**2460**	**3100**	**3340**	**3500**	**3740**	**3980**			
			25mph	3837	4895	5424	6836	7365	7718	8247	8776			
			50 km/h	**1700**	**2160**	**2400**	**3020**	**3250**	**3410**	**3640**	**3875**			
			31mph	3749	4763	5292	6659	7166	7519	8026	8544			

(a) The speeds stipulated are average speeds per hour of travel. A maximum speed of 20 km/h (12.5 mph) above the average speed is tolerated provided that the maximum never exceeds 100 km/h (62 mph).

(b) Special wheel for cranes.

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **TREAD DESIGN** CAI (Part Number)	Max. dist. / hour **km** *Miles*	TKPH *TMPH* (1)	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (2) Michelin® dimensions						**Measuring Rim** Approved Rims (3) - (4)	Tubeless O-Ring CAI (4)	Tube Type Ref. Flap (4)
			e	D	E	e	D	R'	RC	Tread depth	Cap.			
			mm *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *32nd*	l *gallon*			
20.5"														
525/65 R 20.5 Tubeless														
XS E7 **173F** 109421			**551** *21.7*	**1243** *48.9*		**521** *20.5*	**1200** *47.2*	**548** *21.6*	**3640** *143.3*	**17** *21.4*	**337** *89*	**16.00**	- -	19.5/20.5 UD -
24 R 20.5 Tubeless														
XS E7 **176F** 109174						**602** *23.7*	**1374** *54.1*	**620** *24.4*	**4150** *163.4*	**17** *21.4*	**538** *142*	**18.00**	- -	20.5 WAMD -
21"														
24 R 21 Tubeless														
XRIB E7 **176F** 109248						**590** *23.2*	**1390** *54.7*	**628** *24.7*	**4200** *165.4*	**10** *12.6*	**525** *139*	**18.00/1.5**	- OR 6.6-21 553213	21 WAM 17-20
XZL E2 **176G** 110257						**608** *23.9*	**1388** *54.6*	**631** *24.8*						
22.5"														
15 R 22.5 Tubeless														
XF* 255205 (8)			**430** *16.9*	**1132** *44.6*		**387** *15.2*	**1108** *43.6*	**503** *19.8*	**3353** *132*	**25** *31.5*	**200** *53*	**11.75**	- -	20 S -
18 R 22.5 Tubeless														
XF* 255300			**507** *20*	**1224** *48.2*		**453** *17.8*	**1188** *46.8*	**543** *21.4*	**3604** *141.9*	**25** *31.5*	**255** *67*	**14.00**	- -	22.5 TAMD 22.5 TD -

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread Design	Identification code (9)	Explanations on how to choose the tire and to determine the inflation pressures Refer to explanations and methods allowing to determine the inflation pressures (10)	Size

20.5"

		APPLICATION			bar	1	2	3	4	5	6	7	8			
					psi	*15*	*29*	*44*	*58*	*73*	*87*	*102*	*116*			
XS E7	E7	Desert conditions (see page 15)	**80 km/h**	Road in single		**1450**	**2150**	**2850**	**3600**	**4300**	**5000**	**5750**	**6500**			**525/65 R 20.5**
			50 mph			3197	4741	6284	7938	9482	11025	12679	14333			
			65 km/h	Track in single		**1700**	**2600**	**3500**	**4450**	**5250**						
			40 mph			3749	5733	7718	9812	11576						
			20 km/h	Sand in single		**2300**	**3850**	**5250**								
			12.5 mph			5072	8489	11576								

		APPLICATION			bar	1	2	2.5	3	3.5	4	4.5	5	5.5	6	
					psi	*15*	*29*	*36*	*44*	*51*	*58*	*65*	*73*	*80*	*87*	
XS E7	E7	Desert conditions (see page 15)	**80 km/h**	Road in single		**1950**	**2950**	**3450**	**4000**	**4500**	**5010**	**5520**	**6050**	**6575**	**7100**	**24 R 20.5**
			50 mph			4300	6505	7607	8820	9923	11047	12172	13340	14498	15656	
			65 km/h	Track in single		**2550**	**3650**	**4250**	**4750**	**5300**	**5850**	**6400**	**6750**	**7100**		
			40 mph			5623	8048	9371	10474	11687	12899	14112	14884	15656		
			20 km/h	Sand in single		**3500**	**5350**	**6400**	**7100**							
			12.5 mph			7718	11797	14112	15656							

21"

		APPLICATION			bar	1	2	2.5	3	3.5	4	4.5	5	5.5	6	
					psi	*15*	*29*	*36*	*44*	*51*	*58*	*65*	*73*	*80*	*87*	
XRIB E7 XZL E2	E7 E2	Desert conditions (see page 15)	**80 km/h**	Road in single		**1950**	**2950**	**3450**	**4000**	**4500**	**5010**	**5520**	**6050**	**6575**	**7100**	**24 R 21**
			50 mph			4300	6505	7607	8820	9923	11047	12172	13340	14498	15656	
			65 km/h	Track in single		**2550**	**3650**	**4250**	**4750**	**5300**	**5850**	**6400**	**6750**	**7100**		
			40 mph			5623	8048	9371	10474	11687	12899	14112	14884	15656		
			20 km/h	Sand in single		**3500**	**5350**	**6400**								
			12.5 mph			7718	11797	14112								

22.5"

		APPLICATION		bar	3	3.5	4	4.5	5	5.5	6	6.5			
				psi	*44*	*51*	*58*	*65*	*73*	*80*	*87*	*94*			
XF*		Wheeled Excavators	**10 km/h**		**3660**	**3875**	**4085**	**4290**	**4510**	**4720**	**4935**	**5150**			**15 R 22.5**
			6mph		8070	8544	9007	9459	9945	10408	10882	11356			
			20 km/h		**3130**	**3350**	**3560**	**3770**	**3990**	**4200**	**4410**	**4620**			
			12mph		6902	7387	7850	8313	8798	9261	9724	10187			
			30 km/h		**2755**	**2970**	**3190**	**3400**	**3620**	**3830**	**4050**	**4265**			
			19mph		6075	6549	7034	7497	7982	8445	8930	9404			
			40 km/h		**2055**	**2270**	**2480**	**2695**	**2910**	**3125**	**3335**	**3550**			
			25mph		4531	5005	5468	5942	6417	6891	7354	7828			

		APPLICATION		bar	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	
				psi	*44*	*51*	*58*	*65*	*73*	*80*	*87*	*94*	*102*	*109*	
XF*		Wheeled Excavators	**10 km/h**		**4290**	**4575**	**4860**	**5150**	**5440**	**5725**	**6015**	**6300**	**6590**	**6875**	**18 R 22.5**
			6mph		9459	10088	10716	11356	11995	12624	13263	13892	14531	15159	
			20 km/h		**3485**	**3770**	**4055**	**4340**	**4625**	**4910**	**5195**	**5480**	**5765**	**6050**	
			12mph		7684	8313	8941	9570	10198	10827	11455	12083	12712	13340	
			30 km/h		**3035**	**3320**	**3605**	**3890**	**4175**	**4460**	**4745**	**5030**	**5315**	**5600**	
			19mph		6692	7321	7949	8577	9206	9834	10463	11091	11720	12348	
			40 km/h		**2045**	**2330**	**2620**	**2905**	**3190**	**3480**	**3765**	**4050**	**4340**	**4625**	
			25mph		4509	5138	5777	6406	7034	7673	8302	8930	9570	10198	

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **TREAD DESIGN** CAI (Part Number)	Max. dist. / hour **km** *Miles*	TKPH *TMPH* (1)	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (2) Michelin® dimensions						**Measuring Rim** Approved Rims (3) - (4)	Tubeless O-Ring CAI (4)	Tube Type Ref. Flap (4)
			e	D	E	e	D	R'	RC	Tread depth	Cap.			
			mm *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *32nd*	l *gallon*			
24"														
12.00 R 24 TubeType														
XR B E3 *** 242043 (8)	**35** *21.7*	**119** *82*	**340** *13.4*	**1285** *50.6*	**378** *14.9*	**308** *12.1*	**1250** *49.2*	**574** *22.6*	**3798** *149.5*	**20** *25.2*	**180** *48*	7.33V 8.00V 8.0 **8.5** 8.50V	-	24 Q
XZH E3 *** 123369	**35** *21.7*					**321** *12.6*	**1258** *49.5*	**591** *23.3*	**3857** *151.9*	**30** *37.8*	**171** *45*			24/25x8.50
12.00 R 24 TubeType														
XK A L3 *** 242110	**14** *8.7*		**340** *13.4*	**1285** *50.6*	**378** *14.9*	**330** *13*	**1244** *49*	**569** *22.4*	**3775** *148.6*	**21** *26.5*	**155** *41*	7.33V 7.5 8.00V 8.0 **8.5** 8.50V	- G25 (R1237) 553012	24 Q 24/25x8.50
12.00 R 24 Tubeless														
X MINE D2 L5R 242046	**6** *3.7*		**340** *13.4*	**1315** *51.8*		**330** *13*	**1280** *50.4*	**594** *23.4*	**3906** *153.8*	**57** *71.8*	**138** *36*	7.33V 7.5 8.00V 8.0 **8.5** 8.50V	-	24 Q
XSM D2+ L5S 123647	**6** *3.7*			**1285** *50.6*		**325** *12.8*	**1264** *49.8*	**580** *22.8*	**3840** *151.2*		**140** *37*		G25 (R1237) 553012	24/25x8.50
13.00 R 24 Tubeless														
XR A L3 * TG 123480 (6. 8)	**16** *9.9*		**360** *14.2*	**1318** *51.9*		**329** *13*	**1290** *50.8*	**575** *22.6*	**3880** *152.8*	**22** *27.7*	**200** *53*	**8.00 TG SDC** 9.00/1.5 DC 10.00 VA SDC	-	KLEBER 703
XGLA2 L2 * TG 123386 (6)	**16** *9.9*					**335** *13.2*	**1296** *51*	**570** *22.4*	**3875** *152.6*	**25** *31.5*	**215** *57*		OR 2-25 HEUPO 553201	13-24 DR

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread Design	Identification code (9)	Explanations on how to choose the tire and to determine the inflation pressures Refer to explanations and methods allowing to determine the inflation pressures (10)											Size
24"													
		APPLICATION	**bar**	**4**	**4.5**	**5**	**5.5**	**6**	**6.5**	**7**	**8**	**8.5**	
			psi	*58*	*65*	*73*	*80*	*87*	*94*	*102*	*116*	*123*	
XR B *** E3 XZH *** E3	E3 E3	Transport	Standard	**2700**	**2950**	**3200**	**3475**	**3750**	**4000**	**4250**	**4500**	**4650**	**12.00 R 24**
				5954	6505	7056	7662	8269	8820	9371	9923	10253	
		APPLICATION	**bar**	**2**	**2.5**	**3**	**3.5**	**4**	**4.5**	**5**	**5.5**	**6**	**7**
			psi	*29*	*36*	*44*	*51*	*58*	*65*	*73*	*80*	*87*	*102*
XK A *** L3	L3	Underground machines (see page 39-41)	Front and Rear	**2050**	**2450**	**2750**	**3100**	**3450**	**3800**	**4150**	**4475**	**4800**	**5500**	**12.00 R 24**
				4520	5402	6064	6836	7607	8379	9151	9867	10584	12128	
X MINE D2 L5R XSM D2+ L5S	L5R L5S	Loaders	Front laden	**2300**	**2700**	**3050**	**3450**	**3850**	**4200**	**4600**	**4975**	**5350**	**6100**	**12.00 R 24**
				5072	5954	6725	7607	8489	9261	10143	10970	11797	13451	
			Rear unladen	**1850**	**2150**	**2450**	**2750**	**3100**	**3350**	**3700**	**4000**	**4300**	**4900**	
				4079	4741	5402	6064	6836	7387	8159	8820	9482	10805	
X MINE D2 L5R XSM D2+ L5S	L5R L5S	Underground machines (see page 39-41)	Front and Rear	**2050**	**2450**	**2750**	**3100**	**3450**	**3800**	**4150**	**4475**	**4800**	**5500**	
				4520	5402	6064	6836	7607	8379	9151	9867	10584	12128	
		APPLICATION	**bar**	**2**	**2.5**	**3**	**3.5**	**4**	**4.5**	**5**			
			psi	*29*	*36*	*44*	*51*	*58*	*65*	*73*			
XR A * TG L3 XGLA2 * TG L2	L3 L2	Loaders	Front laden	**2650**	**3100**	**3600**	**4050**	**4500**	**4950**	**5400**			**13.00 R 24**
				5843	6836	7938	8930	9923	10915	11907			
			Rear unladen	**2100**	**2500**	**2900**	**3250**	**3600**	**3950**	**4300**			
				4631	5513	6395	7166	7938	8710	9482			
XR A * TG L3 XGLA2 * TG L2	L3 L2	Graders	Front and Rear	**1900**	**2225**	**2550**	**2900**						
				4190	4906	5623	6395						

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **TREAD DESIGN** CAI (Part Number)	Max. dist. / hour **km** *Miles*	TKPH *TMPH* (1)	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (2) Michelin® dimensions						**Measuring Rim** Approved Rims (3) - (4)	Tubeless O-Ring CAI (4)	Tube Type Ref. Flap (4)
			e	D	E	e	D	R'	RC	Tread depth	Cap.			
			mm *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *32nd*	l *gallon*			
24"														
14.00 R 24 TubeType														
XK A E3 *** 251590	**14** *8.7*		**405** *15.9*	**1414** *55.7*	**450** *17.7*	**401** *15.8*	**1380** *54.3*	**638** *25.1*	**4205** *165.6*	**24** *30.2*	**270** *71*	9.00V 9.0 **10.0/2.0** 10.00W	-	24/25 T 13-24/25
XMH E2T *** 199005 (7)	**50** *31.1*					**389** *15.3*	**1361** *53.6*	**633** *24.9*	**4155** *163.6*		**284** *75*			
XKD1 A E4 *** 251592	**18** *11.2*	**84** *58*		**1467** *57.8*		**401** *15.8*	**1412** *55.6*	**657** *25.9*	**4313** *169.8*	**37** *46.6*	**270** *71*			
14.00 R 24 TubeType														
XK A E3 *** 251590	**14** *8.7*		**405** *15.9*	**1414** *55.7*	**450** *17.7*	**401** *15.8*	**1380** *54.3*	**638** *25.1*	**4205** *165.6*	**24** *30.2*	**270** *71*	9.00V 9.0 **10.0/2.0** 10.00W	-	24/25 T 13-24/25
XKD1 A E4 *** 251592	**18** *11.2*	**84** *58*		**1467** *57.8*			**1412** *55.6*	**657** *25.9*	**4313** *169.8*	**37** *46.6*				
14.00 R 24 Tubeless														
XSM D2+ L5S 123597	**6** *3.7*		**405** *15.9*	**1467** *57.8*		**401** *15.8*	**1395** *54.9*	**636** *25*	**4227** *166.4*	**58** *73.1*	**266** *70*	9.00V 9.0 10.0/2.0 **10.00W**	-	24/25 TAM 24/25 T 13-24/25 13-24/25 S
14.00 R 24 Tubeless TG														
XR A L3 * TG 123032 (6. 8)	**16** *9.9*		**391** *15.4*	**1392** *54.8*		**348** *13.7*	**1366** *53.8*	**602** *23.7*	**4060** *159.8*	**22** *27.7*	**240** *63*	**8.00 TG SDC** 9.00/1.5 DC 10.00VA SDC	- OR 2-25 HEUPO 553201	24 ST 24 TD 13-24 DR
XMPS G2 * TG 123376 (6. 8)	**16** *9.9*					**359** *14.1*	**1356** *53.4*	**595** *23.4*	**4051** *159.5*	**24** *30.2*	**255** *67*			
X SNOPLUS L2 * TG 123861 (6)	**16** *9.9*					**372** *14.6*	**1364** *53.7*	**545** *21.5*	**3941** *155.2*		**264** *70*			
XGLA2 L2 * TG 123395 (6)	**16** *9.9*					**371** *14.6*	**1360** *53.5*	**592** *23.3*	**4051** *159.5*	**25** *31.5*	**310** *82*			

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread Design	Identification code (9)	Explanations on how to choose the tire and to determine the inflation pressures Refer to explanations and methods allowing to determine the inflation pressures (10)											Size
24"													
		APPLICATION	**bar**	**4**	**5**	**5.5**	**6**	**6.5**	**7**	**8**			
			psi	*58*	*73*	*80*	*87*	*94*	*102*	*116*			
XK A *** E3 XMH *** E2T XKD1 A *** E4	E3 E2T E4	Transport	Standard	**3750**	**4500**	**4850**	**5600**	**5700**	**5800**	**6150**			**14.00 R 24**
				8269	9923	10694	12348	12569	12789	13561			
		APPLICATION	**bar**	**2**	**2.5**	**3**	**3.5**	**4**	**4.5**	**5**	**5.5**	**6**	**7**
			psi	*29*	*36*	*44*	*51*	*58*	*65*	*73*	*80*	*87*	*102*
XK A *** E3 XKD1 A *** E4	E3 E4	Underground machines (see page 39-41)	Front and Rear	**2950**	**3400**	**3850**	**4300**	**4800**	**5300**	**5750**	**6200**	**6550**	**7250**
				6505	7497	8489	9482	10584	11687	12679	13671	14443	15986
XSM D2+ L5S	L5S	Loaders	Front laden	**3250**	**3750**	**4300**	**4800**	**5350**	**5900**	**6400**	**6900**		
				7166	8269	9482	10584	11797	13010	14112	15215		
			Rear unladen	**2600**	**3000**	**3450**	**3850**	**4300**	**4700**	**5100**	**5500**		
				5733	6615	7607	8489	9482	10364	11246	12128		
XSM D2+ L5S	L5S	Underground machines (see page 39-41)	Front and Rear	**2950**	**3400**	**3850**	**4300**	**4800**	**5300**	**5750**	**6200**	**6550**	**7250**
				6505	7497	8489	9482	10584	11687	12679	13671	14443	15986
XR A * TG L3 XMPS * TG G2 X SNOPLUS * TG L2 XGLA2 * TG L2	L3 G2 L2 L2	Loaders	Front laden	**3250**	**3750**	**4300**	**4800**	**5350**	**5900**	**6400**	**6900**		
				7166	8269	9482	10584	11797	13010	14112	15215		
			Rear unladen	**2600**	**3000**	**3450**	**3850**	**4300**	**4700**	**5100**	**5500**		
				5733	6615	7607	8489	9482	10364	11246	12128		
XR A * TG L3 XMPS * TG G2 X SNOPLUS * TG L2 XGLA2 * TG L2	L3 G2 L2 L2	Graders	Front and Rear	**2300**	**2725**	**3125**	**3550**						
				5072	6009	6891	7828						

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **TREAD DESIGN** CAI (Part Number)	Max. dist. / hour **km** *Miles*	TKPH *TMPH* (1)	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (2) Michelin® dimensions						**Measuring Rim** Approved Rims (3) - (4)	Tubeless O-Ring CAI (4)	Tube Type Ref. Flap (4)
			e	D	E	e	D	R'	RC	Tread depth	Cap.			
			mm	**mm**	**mm**	**mm**	**mm**	**mm**	**mm**	**mm**	l			
			inches	*inches*	*inches*	*inches*	*inches*	*inches*	*inches*	*32nd*	*gallon*			
24"														
385/95 R 24 TubeType														
X-CRANE AT E2 **170F** 778245	**80** *49.7*		**409** *16.1*	**1415** *55.7*	**455** *17.9*	**376** *14.8*	**1361** *53.6*	**632** *24.9*	**4153** *163.5*	**23** *29*	**284** *75*	**10.00W** 10.0 11.25/1.3 (b)	-	24/25 T 13-24/25
385/95 R 24 TubeType														
XMH S E2T **170E** 957157	**70** *43.5*		**409** *16.1*	**1415** *55.7*	**455** *17.9*	**389** *15.3*	**1361** *53.6*	**633** *24.9*	**4155** *163.6*	**24** *30.2*	**284** *75*	9.0 9.00V 10.00/2.0 **10.00W** 10.0 (b)	-	24/25 T 13-24/25
X SNOPLUS E2 **170E** 432272	**70** *43.5*					**386** *15.2*	**1358** *53.5*		**4150** *163.4*		**283** *75*	**10.00W** 10.0 (b)		

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread Design	Identification code (9)	Explanations on how to choose the tire and to determine the inflation pressures Refer to explanations and methods allowing to determine the inflation pressures (10)	Size

24"

		APPLICATION	bar	5	6	7	8	9						
			psi	*73*	*87*	*102*	*116*	*131*						
			(a)											
X-CRANE AT E2	E2	Cranes	**0 km/h**	**10250**	**11900**	**13500**	**15200**	**16200**						**385/95 R 24**
			0mph	22601	26240	29768	33516	35721						
			5 km/h	**7980**	**9135**	**10290**	**11445**	**12600**						
			3mph	17596	20143	22689	25236	27783						
			10 km/h	**6840**	**7830**	**8820**	**9810**	**10800**						
			6mph	15082	17265	19448	21631	23814						
			15 km/h	**6270**	**7180**	**8085**	**8995**	**9900**						
			9 mph	13825	15832	17827	19834	21830						
			20 km/h	**5700**	**6525**	**7350**	**8175**	**9000**						
			12mph	12569	14388	16207	18026	19845						
			25 km/h	**5130**	**5875**	**6615**	**7360**	**8100**						
			15 mph	11312	12954	14586	16229	17861						
			30 km/h	**4750**	**5440**	**6125**	**6815**	**7500**						
			19mph	10474	11995	13506	15027	16538						
			35 km/h	**4520**	**5175**	**5830**	**6485**	**7140**						
			22 mph	9967	11411	12855	14299	15744						
			40 km/h	**4370**	**5005**	**5635**	**6270**	**6900**						
			25mph	9636	11036	12425	13825	15215						
			45 km/h	**4295**	**4915**	**5535**	**6160**	**6780**						
			28mph	9470	10838	12205	13583	14950						
			50 km/h	**4255**	**4870**	**5490**	**6105**	**6720**						
			31mph	9382	10738	12105	13462	14818						
			55 km/h	**4220**	**4830**	**5440**	**6050**	**6660**						
			34 mph	9305	10650	11995	13340	14685						
			60 km/h	**4180**	**4785**	**5390**	**5995**	**6600**						
			37mph	9217	10551	11885	13219	14553						
			65 km/h	**4085**	**4675**	**5270**	**5860**	**6450**						
			40mph	9007	10308	11620	12921	14222						
			70 km/h	**3990**	**4570**	**5145**	**5725**	**6300**						
			43mph	8798	10077	11345	12624	13892						
			75 km/h	**3895**	**4460**	**5025**	**5585**	**6150**						
			47 mph	8588	9834	11080	12315	13561						
			80 km/h	**3800**	**4350**	**4900**	**5450**	**6000**						
			50mph	8379	9592	10805	12017	13230						
			(a)											
XMH S E2T X SNOPLUS E2	E2T E2	Cranes	**30 km/h**	**4860**	**5880**	**6460**	**7000**	**7800**						**385/95 R 24**
			19mph	10716	12965	14244	15435	17199						
			40 km/h	**4635**	**5610**	**6165**	**6675**	**7450**						
			25mph	10220	12370	13594	14718	16427						
			50 km/h	**4410**	**5340**	**5865**	**6355**	**7100**						
			31mph	9724	11775	12932	14013	15656						
			65 km/h	**4020**	**4865**	**5345**	**5790**	**6450**						
			40mph	8864	10727	11786	12767	14222						
			70 km/h	**3740**	**4525**	**4970**	**538**	**6000**						
			43mph	8247	9978	10959	1186	13230						
			80 km/h	**3086**	**3735**	**4100**	**4445**	**4950**						
			50mph	6805	8236	9041	9801	10915						
			90 km/h	**2620**	**3170**	**3480**	**3770**	**4200**						
			56 mph	5777	6990	7673	8313	9261						
			100 km/h	**2245**	**2715**	**2980**	**3230**	**3600**						
			62 mph	4950	5987	6571	7122	7938						

(a) The speeds stipulated are average speeds per hour of travel. A maximum speed of 20 km/h (12.5 mph) above the average speed is tolerated provided that the maximum never exceeds 100 km/h (62 mph).

(b) Special wheel for cranes.

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **TREAD DESIGN** CAI (Part Number)	Max. dist. / hour **km** *Miles*	TKPH *TMPH* (1)	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (2) Michelin® dimensions						**Measuring Rim** Approved Rims (3) - (4)	Tubeless O-Ring CAI (4)	Tube Type Ref. Flap (4)
			e	D	E	e	D	R'	RC	Tread depth	Cap.			
			mm *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *32nd*	**l** *gallon*			
24"														
15.00 R 24 Pil TubeType (17/80 R 24)														
XLC C1 252211			**445** *17.5*	**1365** *53.7*		**415** *16.3*	**1334** *52.5*	**592** *23.3*	**4002** *157.6*	**21** *26.5*	**320** *85*	9.00V 9.0 **10.0** 10.0W	-	24/25 TAM 13-24/25 S
16.00 R 24 Tubeless														
XR B E3 260436 (8)	**35** *21.7*	**204** *140*	**480** *18.9*	**1561** *61.5*	**513** *20.2*	**426** *16.8*	**1482** *58.3*	**672** *26.5*	**4482** *176.5*	**26** *32.8*	**380** *100*	**11.25/2.5**	-	24/25 VAM 14-24/25
16.00 R 24 Tubeless														
XR A L3 * TG 123062 (6. 8)	**16** *9.9*		**474** *18.7*	**1527** *60.1*		**419** *16.5*	**1480** *58.3*	**644** *25.4*	**4410** *173.6*	**26** *32.8*	**380** *100*	**10.00 VA SDC**	-	24/25 VD
XGLA2 L2 * TG 123903 (6)	**16** *9.9*					**435** *17.1*	**1500** *59.1*	**651** *25.6*	**4464** *175.7*	**27** *34*	**412** *109*		OR 2-25 HEUPO 553201	13-24 DR
440/80 R 24 Tubeless														
XMCL 161A8 **161B** 954749			**441** *17.4*	**1314** *51.7*	**580** *22.8*	**441** *17.4*	**1314** *51.7*	**592** *23.3*	**3907** *153.8*	**36** *45.4*	**315** *83*	**14.00** DW14L DW15L	-	KLEBER 710 -
17.5 L R 24 Tubeless														
XM27 145A8 123079			**481** *18.9*	**1275** *50.2*		**458** *18*	**1257** *49.5*	**565** *22.2*	**3735** *147*	**37** *46.6*	**280** *74*	W14L DW14L W15L **DW15L**	-	KLEBER 710 -

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread Design	Identification code (9)	Explanations on how to choose the tire and to determine the inflation pressures Refer to explanations and methods allowing to determine the inflation pressures (10)											Size
24"													
		APPLICATION	**bar**	**3**	**4**	**5**	**6**	**6.5**	**7**	**7.5**	**8**	**8.5**	
			psi	*44*	*58*	*73*	*87*	*94*	*102*	*109*	*116*	*123*	
XLC C1	C1	Compactors	**10 km/h**	**5320**	**6540**	**7750**	**8965**	**9570**	**10180**	**10790**	**11390**	**12000**	**15.00 R 24**
			6mph	11731	14421	17089	19768	21102	22447	23792	25115	26460	
			15 km/h	**4740**	**5820**	**6900**	**7980**	**8520**					
			9 mph	10452	12833	15215	17596	18787					
		APPLICATION	**bar**	**4**	**4.5**	**5**	**5.5**	**6**	**6.5**	**7**	**8**	**8.5**	
			psi	*58*	*65*	*73*	*80*	*87*	*94*	*102*	*116*	*123*	
XR B E3	E3	Transport	Standard	**5000**	**5450**	**5900**	**6400**	**6850**	**7300**	**7550**	**8000**	**8250**	**16.00 R 24**
				11025	12017	13010	14112	15104	16097	16648	17640	18191	
		APPLICATION	**bar**	**2**	**2.5**	**3**	**3.5**	**4**	**4.5**	**5**			
			psi	*29*	*36*	*44*	*51*	*58*	*65*	*73*			
XR A * TG L3 XGLA2 * TG L2	L3 L2	Loaders	Front laden	**4500**	**5150**	**5800**	**6400**	**7050**	**7700**	**8350**			**16.00 R 24**
				9923	11356	12789	14112	15545	16979	18412			
			Rear unladen	**3600**	**4100**	**4650**	**5100**	**5650**	**6150**	**6700**			
				7938	9041	10253	11246	12458	13561	14774			
XR A * TG L3 XGLA2 * TG L2	L3 L2	Graders	Front and Rear	**3150**	**3625**	**4125**	**4625**						
				6946	7993	9096	10198						
		APPLICATION	**bar**	**1.6**	**2**	**2.4**	**2.8**	**3.2**	**3.6**	**4**	**4.4**		
			psi	*23*	*29*	*35*	*41*	*46*	*52*	*58*	*64*		
XMCL		Backhoe loaders	Static	**4160**	**5090**	**6010**	**6940**	**7860**	**8790**	**9710**	**10640**		**440/80 R 24**
				9173	11223	13252	15303	17331	19382	21411	23461		
			Cyclic	**2710**	**3320**	**3920**	**4520**	**5130**	**5730**	**6330**	**6940**		
				5976	7321	8644	9967	11312	12635	13958	15303		
			30 km/h	**2370**	**2800**	**3230**	**3660**	**4090**	**4520**	**4950**			
			19mph	5226	6174	7122	8070	9018	9967	10915			
			40 km/h	**2240**	**2650**	**3060**	**3465**	**3875**	**4250**	**4625**			
			25mph	4939	5843	6747	7640	8544	9371	10198			
		APPLICATION	**bar**	**0.6**	**1**	**1.6**	**1.9**	**2.7**	**3**	**3.2**			
			psi	*9*	*15*	*23*	*28*	*39*	*44*	*46*			
XM27		Backhoe loaders	**10 km/h**	**1820**	**2210**	**2780**	**3080**	**3860**	**4150**	4350			**17.5 L R 24**
			6mph	4013	4873	6130	6791	8511	9151	9592			
			30 km/h	**1430**	**1740**	**2200**	**2440**	**3100**					
			19mph	3153	3837	4851	5380	6836					
			40 km/h	**1340**	**1620**	**2050**	**2280**	**2900**					
			25mph	2955	3572	4520	5027	6395					

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **TREAD DESIGN** CAI (Part Number)	Max. dist. / hour **km** *Miles*	TKPH *TMPH* (1)	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (2) Michelin® dimensions						**Measuring Rim** Approved Rims (3) - (4)	Tubeless O-Ring CAI (4)	Tube Type Ref. Flap (4)
			e	D	E	e	D	R'	RC	Tread depth	Cap.			
			mm *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *32nd*	**l** *gallon*			
24"														
460/70 R 24 Tubeless														
XMCL 159A8 **159B** 244268			**455** *17.9*	**1254** *49.4*	**609** *24*	**467** *18.4*	**1248** *49.1*	**562** *22.1*	**3709** *146*	**36** *45.4*	**291** *77*	14.00 DW14L **DW15L** 16.00 DW16L	-	KLEBER 710 -
500/70 R 24 Tubeless														
XMCL 164A8 **164B** 542794			**503** *19.8*	**1310** *51.6*	**654** *25.7*	**511** *20.1*	**1302** *51.3*	**583** *23*	**3866** *152.2*	**36** *45.4*	**355** *94*	DW15L 16.00 **DW16L**	-	KLEBER 710 -
25"														
13.00 R 25 Tubeless														
XR B E3 *** 243320 (8)	**35** *21.7*	**137** *94*	**379** *14.9*	**1342** *52.8*	**421** *16.6*	**335** *13.2*	**1304** *51.3*	**603** *23.7*	**3973** *156.4*	**22** *27.7*	**215** *57*	**8.50/1.3** 10.00/1.5	- OR 2-25 HEUPO 553201	24/25 T 24/25x8.50
14.00 R 25 Tubeless														
XMH E2T *** 235951	**50** *31.1*	**232** *159*	**409** *16.1*	**1415** *55.7*	**450** *17.7*	**389** *15.3*	**1361** *53.6*	**634** *25*	**4158** *163.7*	**24** *30.2*	**278** *73*	**10.00/1.5** 11.25/1.3	- OR 2-25 HEUPO 553201	24/25 TAM 24/25 T 13-24/25 13-24/25 S
XHD1 A E4 *** 123331	**22** *13.7*	**102** *70*	**405** *15.9*	**1467** *57.8*		**380** *15*	**1410** *55.5*	**650** *25.6*	**4291** *168.9*	**38** *47.9*	**265** *70*			
XHD1 A4 E4 *** 123545 (8)	**18** *11.2*	**84** *58*						**649** *25.6*	**4288** *168.8*					

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread Design	Identification code (9)	Explanations on how to choose the tire and to determine the inflation pressures Refer to explanations and methods allowing to determine the inflation pressures (10)	Size

24"

		APPLICATION	bar	1.6	2	2.4	2.8	3.2	3.6	4	4.4			Size
			psi	*23*	*29*	*35*	*41*	*46*	*52*	*58*	*64*			
XMCL		Backhoe loaders	Static	**3940**	**4810**	**5690**	**6560**	**7440**	**8310**	**9190**	**10060**			460/70 R 24
				8688	10606	12546	14465	16405	18324	20264	22182			
			Cyclic	**2570**	**3140**	**3710**	**4280**	**4850**	**5420**	**5990**	**6560**			
				5667	6924	8181	9437	10694	11951	13208	14465			
			30 km/h	**2240**	**2650**	**3050**	**3460**	**3870**	**4270**	**4680**				
			19mph	4939	5843	6725	7629	8533	9415	10319				
			40 km/h	**2120**	**2500**	**2885**	**3270**	**3650**	**4010**	**4375**				
			25mph	4675	5513	6361	7210	8048	8842	9647				
XMCL		Backhoe loaders	Static	**4500**	**5500**	**6500**	**7500**	**8500**	**9500**	**10500**	**11500**			500/70 R 24
				9923	12128	14333	16538	18743	20948	23153	25358			
			Cyclic	**2930**	**3590**	**4240**	**4890**	**5540**	**6200**	**6850**	**7500**			
				6461	7916	9349	10782	12216	13671	15104	16538			
			30 km/h	**2560**	**3020**	**3490**	**3950**	**4420**	**4880**	**5350**				
			19mph	5645	6659	7695	8710	9746	10760	11797				
			40 km/h	**2360**	**2800**	**3210**	**3685**	**4125**	**4560**	**5000**				
			25mph	5204	6174	7078	8125	9096	10055	11025				

25"

		APPLICATION	bar	4	4.5	5	5.5	5.75	6	7	8.5			Size
			psi	*58*	*65*	*73*	*80*	*83*	*87*	*102*	*123*			
XR B *** E3	E3	Transport	Standard	**3150**	**3450**	**3800**	**4100**	**4300**	**4450**	**4875**	**5400**			13.00 R 25
				6946	7607	8379	9041	9482	9812	10749	11907			
XMH *** E2T XHD1 A *** E4 XHD1 A4 *** E4	E2T E4 E4	Transport	Standard	**3750**	**4100**	**4500**	**4850**	**5100**	**5250**	**5800**	**6350**			14.00 R 25
				8269	9041	9923	10694	11246	11576	12789	14002			

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **TREAD DESIGN** CAI (Part Number)	Max. dist. / hour **km** *Miles*	TKPH *TMPH* (1)	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (2) Michelin® dimensions						**Measuring Rim** Approved Rims (3) - (4)	Tubeless O-Ring CAI (4)	Tube Type Ref. Flap (4)
			e	D	E	e	D	R'	RC	Tread depth	Cap.			
			mm *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *32nd*	**l** *gallon*			
25"														
385/95 R 25 Tubeless														
XMH S E2T **170E** 254174 (7)	**70** *43.5*		**409** *16.1*	**1415** *55.7*	**455** *17.9*	**391** *15.4*	**1361** *53.6*	**633** *24.9*	**4155** *163.6*	**24** *30.2*	**278** *73*	10.00/1.5 11.25/1.3 (b)	-	24/25 TAM 24/25 T
X SNOPLUS E2 **170E** 705961	**70** *43.5*					**388** *15.3*	**1365** *53.7*	**636** *25*	**4170** *164.2*	**25** *31.5*	**280** *74*	**9.50/1.7 CR** 10.00/1.5 11.25/1.3 (b)	OR 3-25 SULLA 553200 OR 2-25 HEUPO 553201	13-24/25 13-24/25 S
385/95 R 25 Tubeless														
X-CRANE AT E2 **170F** 296917	**80** *49.7*		**409** *16.1*	**1415** *55.7*	**455** *17.9*	**380** *15*	**1365** *53.7*	**634** *25*	**4168** *164.1*	**23** *29*	**280** *74*	**9.50/1.7 CR** 10.00/1.5 11.25/1.3 (b)	- OR 3-25 SULLA 553200 OR 2-25 HEUPO 553201	24/25 TAM 24/25 T 13-24/25 13-24/25 S

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread Design	Identification code (9)	Explanations on how to choose the tire and to determine the inflation pressures Refer to explanations and methods allowing to determine the inflation pressures (10)	Size

25"

		APPLICATION	bar / *psi*	5 / *73*	6 / *87*	7 / *102*	8 / *116*	9 / *131*						Size
			(a)											
XMH S E2T X SNOPLUS E2	E2T E2	Cranes	**30 km/h**	**4860**	**5880**	**6460**	**7000**	**7800**						385/95 R 25
			19mph	10716	12965	14244	15435	17199						
			40 km/h	**4635**	**5610**	**6165**	**6675**	**7450**						
			25mph	10220	12370	13594	14718	16427						
			50 km/h	**4410**	**5340**	**5865**	**6355**	**7100**						
			31mph	9724	11775	12932	14013	15656						
			65 km/h	**4020**	**4865**	**5345**	**5790**	**6450**						
			40mph	8864	10727	11786	12767	14222						
			70 km/h	**3740**	**4525**	**4970**	**5385**	**6000**						
			43mph	8247	9978	10959	11874	13230						
			80 km/h	**3086**	**3735**	**4100**	**4445**	**4950**						
			50mph	6805	8236	9041	9801	10915						
			90 km/h	**2620**	**3170**	**3480**	**3770**	**4200**						
			56 mph	5777	6990	7673	8313	9261						
			100 km/h	**2245**	**2715**	**2980**	**3230**	**3600**						
			62 mph	4950	5987	6571	7122	7938						
			(a)											
X-CRANE AT E2	E2	Cranes	**0 km/h**	**10250**	**11900**	**13500**	**15200**	**16200**						385/95 R 25
			0mph	22601	26240	29768	33516	35721						
			5 km/h	**7980**	**9135**	**10290**	**11445**	**12600**						
			3mph	17596	20143	22689	25236	27783						
			10 km/h	**6840**	**7830**	**8820**	**9810**	**10800**						
			6mph	15082	17265	19448	21631	23814						
			15 km/h	**6270**	**7180**	**8085**	**8995**	**9900**						
			9 mph	13825	15832	17827	19834	21830						
			20 km/h	**5700**	**6525**	**7350**	**8175**	**9000**						
			12mph	12569	14388	16207	18026	19845						
			25 km/h	**5130**	**5875**	**6615**	**7360**	**8100**						
			15 mph	11312	12954	14586	16229	17861						
			30 km/h	**4750**	**5440**	**6125**	**6815**	**7500**						
			19mph	10474	11995	13506	15027	16538						
			35 km/h	**4520**	**5175**	**5830**	**6485**	**7140**						
			22 mph	9967	11411	12855	14299	15744						
			40 km/h	**4370**	**5005**	**5635**	**6270**	**6900**						
			25mph	9636	11036	12425	13825	15215						
			45 km/h	**4295**	**4915**	**5535**	**6160**	**6780**						
			28mph	9470	10838	12205	13583	14950						
			50 km/h	**4255**	**4870**	**5490**	**6105**	**6720**						
			31mph	9382	10738	12105	13462	14818						
			55 km/h	**4220**	**4830**	**5440**	**6050**	**6660**						
			34 mph	9305	10650	11995	13340	14685						
			60 km/h	**4180**	**4785**	**5390**	**5995**	**6600**						
			37mph	9217	10551	11885	13219	14553						
			65 km/h	**4085**	**4575**	**5270**	**5860**	**6450**						
			40mph	9007	10088	11620	12921	14222						
			70 km/h	**3990**	**4570**	**5145**	**5725**	**6300**						
			43mph	8798	10077	11345	12624	13892						
			75 km/h	**3895**	**4460**	**5025**	**5585**	**6150**						
			47 mph	8588	9834	11080	12315	13561						
			80 km/h	**3800**	**4350**	**4900**	**5450**	**6000**						
			50mph	8379	9592	10805	12017	13230						

(a) The speeds stipulated are average speeds per hour of travel. A maximum speed of 20 km/h (12.5 mph) above the average speed is tolerated provided that the maximum never exceeds 100 km/h (62 mph).

(b) Special wheel for cranes.

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **TREAD DESIGN** CAI (Part Number)	Max. dist. / hour **km** *Miles*	TKPH *TMPH* (1)	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (2) Michelin® dimensions						**Measuring Rim** Approved Rims (3) - (4)	Tubeless O-Ring CAI (4)	Tube Type Ref. Flap (4)
			e	D	E	e	D	R'	RC	Tread depth	Cap.			
			mm *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *32nd*	l *gallon*			
25"														
15.5 R 25 Tubeless														
XTLA L2 * 123415 (5)	**16** *9.9*			**1328** *52.3*		**397** *15.6*	**1272** *50.1*	**553** *21.8*	**3788** *149.1*	**26** *32.8*	**245** *65*	**12.00/1.3** 12.00/1.3DC 13.00/1.3DC	- OR 2-25 HEUPO 553201	25 SAM 15-24/25
XHA L3 * 123008	**16** *9.9*		**437** *17.2*			**404** *15.9*	**1270** *50*	**555** *21.9*	**3789** *149.2*	**26** *32.8*				
X MINE D2 L5R * 252905	**6** *3.7*			**1381** *54.4*		**418** *16.5*	**1336** *52.6*	**609** *24*	**4049** *159.4*	**60** *75.6*	**215** *57*			
395/80 R 25 Tubeless														
XMP E3P 165E 123409	**50** *31.1*	**180** *123*	**434** *17.1*	**1317** *51.9*	**469** *18.5*	**403** *15.9*	**1270** *50*	**579** *22.8*	**3849** *151.5*	**24** *30.2*	**278** *73*	11.25/1.3 **12.00/1.3**	- OR 2-25 HEUPO 553201	25 SAM 15-24/25
16.00 R 25 Tubeless														
XR B E3 ** 261022	**35** *21.7*	**204** *140*	**480** *18.9*	**1561** *61.5*	**518** *20.4*	**426** *16.8*	**1482** *58.3*	**677** *26.7*	**4495** *177*	**26** *32.8*	**350** *92*	**11.25/2.0** 13.00/2.0	- OR 3-25 SULLA 553200	24/25 VAM 14-24/25
XK B E3 ** 261110	**32** *19.9*	**187** *128*				**460** *18.1*	**1502** *59.1*	**688** *27.1*	**4560** *179.5*	**27** *34*	**380** *100*			
XKD1 B E4 ** 261121 (8)	**26** *16.2*	**152** *104*		**1623** *63.9*		**462** *18.2*	**1534** *60.4*	**706** *27.8*	**4665** *183.7*	**42** *52.9*				
XHD1 A4 E4 ** 123489 (8)	**18** *11.2*	**105** *72*					**1520** *59.8*	**687** *27*	**4658** *183.4*	**43** *54.2*				
XHD1 A E4 ** 123350	**28** *17.4*	**164** *112*					**1540** *60.6*	**696** *27.4*	**4652** *183.1*	**47** *59.2*				
16.00 R 25 Tubeless														
XK A L3 ** 261100	**14** *8.7*		**480** *18.9*	**1561** *61.5*	**518** *20.4*	**462** *18.2*	**1502** *59.1*	**681** *26.8*	**4543** *178.9*	**27** *34*	**380** *100*	**11.25/2.0** 13.00/2.0	- OR 3-25 SULLA 553200	24/25 VAM 14-24/25
X MINE D2 L5R 261025	**6** *3.7*			**1623** *63.9*		**457** *18*	**1530** *60.2*	**699** *27.5*	**4641** *182.7*	**73** *92*	**320** *85*			

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread Design	Identification code (9)	Explanations on how to choose the tire and to determine the inflation pressures Refer to explanations and methods allowing to determine the inflation pressures (10)	Size

25"

		APPLICATION	bar / psi										Size
			bar	2	2.5	3	3.5	4	4.5				
			psi	*29*	*36*	*44*	*51*	*58*	*65*				
XTLA * L2 XHA * L3 X MINE D2 * L5R	L2 L3 L5R	Loaders	Front laden	**3700**	**4250**	**4800**	**5350**	**5800**	**6450**					15.5 R 25
				8159	9371	10584	11797	12789	14222					
			Rear unladen	**2950**	**3400**	**3850**	**4300**	**4650**	**5150**					
				6505	7497	8489	9482	10253	11356					
X MINE D2 * L5R	L5R	Underground machines (see page 39-41)	Front and Rear	**3350**	**3850**	**4300**	**4800**	**5200**	**5800**					
				7387	8489	9482	10584	11466	12789					
XTLA * L2 XHA * L3 X MINE D2 * L5R	L2 L3 L5R	Graders	Front and Rear	**2325**	**2650**	**3000**								
				5127	5843	6615								

		APPLICATION	bar / psi										Size
			bar	4	4.5	5	5.5	6	6.5	7			
			psi	*58*	*65*	*73*	*80*	*87*	*94*	*102*			
XMP E3P	E3P	Transport	Standard	**3850**	**4150**	**4500**	**4650**	**4850**	**5000**	**5150**			395/80 R 25
				8489	9151	9923	10253	10694	11025	11356			

		APPLICATION	bar / psi										Size
			bar	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8
			psi	*51*	*58*	*65*	*73*	*80*	*87*	*94*	*102*	*109*	*116*
XR B ** E3 XK B ** E3 XKD1 B ** E4 XHD1 A4 ** E4 XHD1 A ** E4	E3 E3 E4 E4 E4	Transport	Standard		**5000**	**5450**	**5900**	**6400**	**6850**	**7300**	**7550**	**7750**	**8000**	16.00 R 25
					11025	12017	13010	14112	15104	16097	16648	17089	17640	
X-QUARRY ** E4R	E4R	Quarry transport (see page 11)	**30 km/h**	**5300**	**5800**	**6300**	**6800**	**7300**	**7800**					
			19mph	11687	12789	13892	14994	16097	17199					

		APPLICATION	bar / psi										Size
			bar	2	3	4	5	6	7				
			psi	*29*	*44*	*58*	*73*	*87*	*102*				
X MINE D2 L5R	L5R	Loaders	Front laden	**4500**	**5800**	**7050**	**8350**	**9600**	**10900**					16.00 R 25
				9923	12789	15545	18412	21168	24035					
			Rear unladen	**3600**	**4650**	**5650**	**6700**	**7700**	**8700**					
				7938	10253	12458	14774	16979	19184					
XK A ** L3 X MINE D2 L5R	L3 L5R	Underground machines (see page 39-41)	Front and Rear	**4050**	**5200**	**6350**	**7500**	**8650**	**9800**					
				8930	11466	14002	16538	19073	21609					

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **TREAD DESIGN** CAI (Part Number)	Max. dist. / hour **km** *Miles*	TKPH *TMPH* (1)	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (2) Michelin® dimensions						**Measuring Rim** Approved Rims (3) - (4)	Tubeless O-Ring CAI (4)	Tube Type Ref. Flap (4)
			e	D	E	e	D	R'	RC	Tread depth	Cap.			
			mm *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *32nd*	l *gallon*			
25"														
445/95 R 25 Tubeless														
X-CRANE AT E2 174F 297069	**80** *49.7*		**483** *19*	**1549** *61*	**518** *20.4*	**442** *17.4*	**1485** *58.5*	**690** *27.2*	**4532** *178.4*	**25** *31.5*	**380** *100*	**11.00/1.7 CR** 11.25/2 (b)	- OR 3-25 SULLA 553200	24/25 VAM 14-24/25
17.5 R 25 Tubeless														
XK A L3 ** 263251	**14** *8.7*					**481** *18.9*	**1346** *53*	**600** *23.6*	**4045** *159.3*	**25** *31.5*	**300** *79*			
X SNOPLUS L2T * TG 123871	**16** *9.9*			**1405** *55.3*		**448** *17.6*	**1342** *52.8*	**580** *22.8*	**3987** *157*	**28** *35.3*	**333** *88*	13.00/1.3DC 14.00/1.3DC		
XTLA L2 * 123425 (5)	**16** *9.9*					**459** *18.1*	**1337** *52.6*	**576** *22.7*	**3966** *156.1*		**332** *88*			
XHA L3 * 123009	**16** *9.9*		**494** *19.4*			**448** *17.6*	**1340** *52.8*	**582** *22.9*	**3989** *157*	**29** *36.5*	**328** *87*		- OR 2-25 HEUPO 553201	24/25 TAM 16-24/25
XLD D2 A L5T * 123317	**10** *6.2*					**454** *17.9*	**1406** *55.4*	**619** *24.4*	**4206** *165.6*	**63** *79.4*	**305** *81*			
X MINE D2 L5R 263220	**6** *3.7*			**1460** *57.5*		**471** *18.5*	**1402** *55.2*	**636** *25*	**4237** *166.8*	**65** *81.9*	**285** *75*	**14.00/1.5**		
XSM D2+ L5S 123707	**6** *3.7*					**456** *18*	**1395** *54.9*	**598** *23.5*	**4131** *162.6*	**78** *98.3*	**272** *72*			

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread Design	Identification code (9)	Explanations on how to choose the tire and to determine the inflation pressures Refer to explanations and methods allowing to determine the inflation pressures (10)	Size

25"

		APPLICATION	bar / psi										
			bar	5	6	7	8	9					
			psi	*73*	*87*	*102*	*116*	*131*					
			(a)										
X-CRANE AT E2	E2	Cranes	**0 km/h**	**10675**	**12190**	**13700**	**15225**	**16750**					445/95 R 25
			0mph	23538	26879	30209	33571	36934					
			5 km/h	**8965**	**10240**	**11510**	**12780**	**14070**					
			3mph	19768	22579	25380	28180	31024					
			10 km/h	**7685**	**8775**	**9665**	**10960**	**12060**					
			6mph	16945	19349	21311	24167	26592					
			20 km/h	**6405**	**7315**	**8220**	**9135**	**10550**					
			12mph	14123	16130	18125	20143	23263					
			30 km/h	**5340**	**6095**	**6850**	**7615**	**8375**					
			19mph	11775	13439	15104	16791	18467					
			40 km/h	**4910**	**5605**	**6300**	**7005**	**7705**					
			25mph	10827	12359	13892	15446	16990					
			50 km/h	**4780**	**5460**	**6140**	**6820**	**7505**					
			31mph	10540	12039	13539	15038	16549					
			65 km/h	**4590**	**5240**	**5890**	**6545**	**7205**					
			40mph	10121	11554	12987	14432	15887					
			70 km/h	**4485**	**5120**	**5755**	**6395**	**7035**					
			43mph	9889	11290	12690	14101	15512					
			80 km/h	**4270**	**4875**	**5480**	**6090**	**6700**					
			50mph	9415	10749	12083	13428	14774					
			85 km/h	**4140**	**4730**	**5315**	**5910**	**6500**					
			53mph	9129	10430	11720	13032	14333					
			88 km/h	**4080**	**4665**	**5245**	**5825**	**6400**					
			55 mph	8996	10286	11565	12844	14112					

		APPLICATION	bar / psi										
			bar	2	2.5	3	3.5	4	4.25	4.5			
			psi	*29*	*36*	*44*	*51*	*58*	*62*	*65*			
XK A ** L3 X SNOPLUS * TG L2T XTLA * L2 XHA * L3 XLD D2 A * L5T X MINE D2 L5R XSM D2+ L5S	L3 L2T L2 L3 L5T L5R L5S	Loaders	Front laden	**4550**	**5100**	**5700**	**6250**	**6800**	**7100**	**7350**			17.5 R 25
				10033	11246	12569	13781	14994	15656	16207			
			Rear unladen	**3650**	**4100**	**4550**	**5000**	**5450**	**5700**	**5900**			
				8048	9041	10033	11025	12017	12569	13010			
XK A ** L3 XLD D2 A * L5T X MINE D2 L5R XSM D2+ L5S	L3 L5T L5R L5S	Underground machines (see page 39-41)	Front and Rear	**4100**	**4600**	**5150**	**5650**	**6100**	**6400**	**6600**			
				9041	10143	11356	12458	13451	14112	14553			
X SNOPLUS * TG L2T XTLA * L2 XHA * L3 XLD D2 A * L5T	L2T L2 L3 L5T	Graders	Front and Rear	**2800**	**3250**	**3650**							
				6174	7166	8048							

(a) The speeds stipulated are average speeds per hour of travel. A maximum speed of 20 km/h (12.5 mph) above the average speed is tolerated provided that the maximum never exceeds 100 km/h (62 mph).

(b) Special wheel for cranes.

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **TREAD DESIGN** CAI (Part Number)	Max. dist. / hour **km** *Miles*	TKPH *TMPH* (1)	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (2) Michelin® dimensions						**Measuring Rim** Approved Rims (3) - (4)	Tubeless O-Ring CAI (4)	Tube Type Ref. Flap (4)
			e	D	E	e	D	R'	RC	Tread depth	Cap.			
			mm	**mm**	**mm**	**mm**	**mm**	**mm**	**mm**	**mm**	l			
			inches	*inches*	*inches*	*inches*	*inches*	*inches*	*inches*	*32nd*	*gallon*			
25"														
445/80 R 25 Tubeless														
XGC E2 **170E** 264520	**70** *43.5*		**494** *19.4*	**1404** *55.3*	**534** *21*	**438** *17.2*	**1358** *53.5*	**622** *24.5*	**4123** *162.3*	**28** *35.3*	**340** *90*	**14.00/1.7 CR** 14.00/1.5 (b)	- OR 3-25 SULLA 553200 OR 2-25 HEUPO 553201	24/25 TAM 16-24/25

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread Design	Identification code (9)	Explanations on how to choose the tire and to determine the inflation pressures Refer to explanations and methods allowing to determine the inflation pressures (10)	Size

25"

		APPLICATION	bar	2	3	4	5	6	7					
			psi	*29*	*44*	*58*	*73*	*87*	*102*					
			(a)											
XGC E2	E2	Crane	**0 km/h**	**7300**	**9100**	**10900**	**12700**	**14300**	**16000**					**445/80 R 25**
			0mph	16097	20066	24035	28004	31532	35280					
			5 km/h	**5150**	**6450**	**7700**	**9000**	**10200**	**11400**					
			3mph	11356	14222	16979	19845	22491	25137					
			10 km/h	**4550**	**5700**	**6800**	**7950**	**9000**	**10050**					
			6mph	10033	12569	14994	17530	19845	22160					
			20 km/h	**3300**	**4250**	**5150**	**6100**	**7050**	**7950**					
			12mph	7277	9371	11356	13451	15545	17530					
			30 km/h	**2725**	**3650**	**4600**	**5650**	**6750**	**7800**					
			19mph	6009	8048	10143	12458	14884	17199					
			40 km/h	**2600**	**3475**	**4400**	**5400**	**6450**	**7450**					
			25mph	5733	7662	9702	11907	14222	16427					
			50 km/h	**2475**	**3300**	**4150**	**5150**	**6150**	**7100**					
			31mph	5457	7277	9151	11356	13561	15656					
			65 km/h	**2250**	**3000**	**3800**	**4650**	**5550**	**6450**					
			40mph	4961	6615	8379	10253	12238	14222					
			70 km/h	**2100**	**2800**	**3550**	**4350**	**5200**	**6000**					
			43mph	4631	6174	7828	9592	11466	13230					
			80 km/h	**1725**	**2300**	**2900**	**3600**	**4250**	**4950**					
			50mph	3804	5072	6395	7938	9371	10915					
			90 km/h	**1475**	**1975**	**2500**	**3050**	**3650**	**4200**					
			56 mph	3252	4355	5513	6725	8048	9261					
			100 km/h	**1250**	**1675**	**2150**	**2650**	**3150**	**3600**					
			62 mph	2756	3693	4741	5843	6946	7938					

(a) The speeds stipulated are average speeds per hour of travel. A maximum speed of 20 km/h (12.5 mph) above the average speed is tolerated provided that the maximum never exceeds 100 km/h (62 mph).

(b) Special wheel for cranes.

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **TREAD DESIGN** CAI (Part Number)	Max. dist. / hour **km** *Miles*	TKPH *TMPH* (1)	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (2) Michelin® dimensions						**Measuring Rim** Approved Rims (3) - (4)	Tubeless O-Ring CAI (4)	Tube Type Ref. Flap (4)
			e	D	E	e	D	R'	RC	Tread depth	Cap.			
			mm	**mm**	**mm**	**mm**	**mm**	**mm**	**mm**	**mm**	**l**			
			inches	*inches*	*inches*	*inches*	*inches*	*inches*	*inches*	*32nd*	*gallon*			
25"														
445/95 R 25 Tubeless														
X SNOPLUS E2 **177E** 123857	**70** *43.5*		**483** *19*	**1549** *61*	**518** *20.4*	**447** *17.6*	**1486** *58.5*	**690** *27.2*	**4535** *178.5*	**25** *31.5*	**380** *100*	**11.00/1.7 CR** 11.25/2 (b)	- OR 3-25 SULLA 553200	24/25 VAM 14-24/25

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread Design	Identification code (9)	Explanations on how to choose the tire and to determine the inflation pressures Refer to explanations and methods allowing to determine the inflation pressures (10)	Size

25"

		APPLICATION	bar	2	3	4	5	6	7	8	9	10		
			psi	*29*	*44*	*58*	*73*	*87*	*102*	*116*	*131*	*145*		
			(a)											
X SNOPLUS 177E E2	E2	Cranes	**0 km/h**	**7200**	**9300**	**11300**	**13400**	**15400**	**17400**	**19400**	**20700**	**22600**		445/95 R 25
			0mph	15876	20507	24917	29547	33957	38367	42777	45644	49833		
			2 km/h	**5850**	**7550**	**9150**	**10900**	**12500**	**14200**	**15800**	**18400**	**20100**		
			1.2mph	12899	16648	20176	20435	27563	31311	34839	40572	44321		
			5 km/h	**5100**	**6550**	**7950**	**9450**	**10800**	**12300**	**13700**	**16700**			
			3mph	11246	14443	17530	20387	23814	27122	30209	36824			
			10 km/h	**4500**	**5800**	**7050**	**8350**	**6900**	**10900**	**12150**	**13400**			
			6mph	9923	12789	15766	18412	21168	24035	26791	29547			
			15 km/h	**3600**	**4650**	**5650**	**6700**	**7700**	**8700**	**9700**	**10700**			
			9.5mph	7938	10253	12548	14774	16979	18914	21389	23594			
			20 km/h	**3350**	**4450**	**5400**	**6400**	**7350**	**8300**	**9300**	**10250**			
			12mph	7386	9810	11906	14110	16024	18300	20500	22600			
			30 km/h	**2925**	**4100**	**5000**	**5850**	**6750**	**7650**	**8600**	**9500**			
			19mph	6450	9041	11025	12899	14884	10868	19863	20498			
			40 km/h	**2800**	**3900**	**4775**	**5600**	**6450**	**7300**	**8200**	**9050**			
			25mph	6174	8600	10529	12348	14222	16097	18081	19955			
			50 km/h	**2650**	**3725**	**4550**	**5300**	**6150**	**6950**	**7800**	**8600**			
			31mph	5843	8214	10033	11867	13561	25325	17199	18963			
			65 km/h	**2400**	**3375**	**4125**	**4850**	**5600**	**6350**	**7150**	**7800**			
			40mph	5292	7442	9096	10694	12348	14002	15766	17199			
			70 km/h	**2250**	**3150**	**3850**	**4500**	**5200**	**5900**	**6600**	**7300**			
			44 mph	4961	6946	8489	9923	11466	13010	14553	16100			
			80 km/h	**1850**	**2600**	**3150**	**3700**	**4250**	**4850**	**5400**	**6000**			
			50 mph	4079	5733	6946	8159	9371	10691	11907	13230			
			90 km/h	**1575**	**2200**	**2700**	**3150**	**3650**	**4150**	**4600**	**5100**			
			56 mph	3473	4851	5954	6946	8048	9151	10143	11246			
			100 km/h	**1350**	**1900**	**2300**	**2700**	**3120**	**3550**	**3950**	**4400**			
			62 mph	2977	4190	5072	5954	6880	7828	8170	9700			

(a) The speeds stipulated are average speeds per hour of travel. A maximum speed of 20 km/h (12.5 mph) above the average speed is tolerated provided that the maximum never exceeds 100 km/h (62 mph).

(b) Special wheel for cranes.

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **TREAD DESIGN** CAI (Part Number)	Max. dist. / hour **km** *Miles*	TKPH *TMPH* (1)	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (2) Michelin® dimensions						**Measuring Rim** Approved Rims (3) - (4)	Tubeless O-Ring CAI (4)	Tube Type Ref. Flap (4)
			e	D	E	e	D	R'	RC	Tread depth	Cap.			
			mm *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *32nd*	**l** *gallon*			
25"														
18.00 R 25 Tubeless														
XR B E3 ** 270522	**35** *21.7*	**259** *177*	**553** *21.8*	**1693** *66.7*	**598** *23.5*	**493** *19.4*	**1610** *63.4*	**722** *28.4*	**4849** *190.9*	**28** *35.3*	**545** *144*	**14.00/1.5**	- OR 2-25 HEUPO 553201	24/25 TAM 16-24/25
XK B E3 ** 270630 (8)	**32** *19.9*	**237** *162*				**533** *21*	**1630** *64.2*	**736** *29*	**4921** *193.7*	**30** *37.8*	**500** *132*			
XHD1 A E4 ** 123031 (8)	**22** *13.7*	**163** *112*		**1758** *69.2*		**525** *20.7*	**1668** *65.7*	**762** *30*	**5058** *199.1*	**47** *59.2*				
XKD1 A E4 ** 270680	**18** *11.2*	**133** *91*				**530** *20.9*		**764** *30.1*	**5064** *199.4*		**495** *131*			
18.00 R 25 Tubeless														
XK A L3 ** 270610	**14** *8.7*		**553** *21.8*	**1693** *66.7*	**598** *23.5*	**530** *20.9*	**1606** *63.2*	**709** *27.9*	**4809** *189.3*	**30** *37.8*	**490** *129*	**13.00/2.5** 15.00/2.5	- OR 3-25 SULLA 553200	25 WAM 16-24/25
XKD1 A E4 ** 270680	**18** *11.2*	**133** *91*					**1668** *65.7*	**764** *30.1*	**5064** *199.4*	**47** *59.2*	**495** *131*			
X MINE D2 L5R * 270641	**6** *3.7*			**1758** *69.2*		**528** *20.8*	**1658** *65.3*	**746** *29.4*	**5000** *196.9*	**82** *103.3*	**460** *122*			
XSM D2+ L5S 123657	**6** *3.7*					**504** *19.8*	**1653** *65.1*	**738** *29.1*	**4969** *195.6*	**96** *120.9*	**432** *114*			

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread Design	Identification code (9)	Explanations on how to choose the tire and to determine the inflation pressures Refer to explanations and methods allowing to determine the inflation pressures (10)	Size

25"

		APPLICATION	bar	2	3	3.5	4	4.25	4.5	5	6	7	7.5	
			psi	*29*	*44*	*51*	*58*	*62*	*65*	*73*	*87*	*102*	*109*	
XR B ** E3 XK B ** E3 XHD1 A ** E4 XKD1 A ** E4	E3 E3 E4 E4	Transport	Standard				**6800**	**7100**	**7400**	**8000**	**9250**	**9850**	**10150**	**18.00 R 25**
							14994	15656	16317	17640	20396	21719	22381	

		APPLICATION	bar	2	3	3.5	4	4.25	4.5	5	5.5	6	7	
			psi	*29*	*44*	*51*	*58*	*62*	*65*	*73*	*80*	*87*	*102*	
XK A ** L3 X MINE D2 * L5R XSM D2+ L5S	L3 L5R L5S	Loaders	Front laden	**6200**	**8050**	**9000**	**9950**	**10400**	**10850**	**11800**	**12650**	**13500**	**15150**	**18.00 R 25**
				13671	17750	19845	21940	22932	23924	26019	27893	29768	33406	
			Rear unladen	**4950**	**6450**	**7200**	**7950**	**8300**	**8700**	**9450**	**10100**	**10800**	**12100**	
				10915	14222	15876	17530	18302	19184	20837	22271	23814	26681	
XK A ** L3 XKD1 A ** E4 X MINE D2 * L5R XSM D2+ L5S	L3 E4 L5R L5S	Underground machines (see page 39-41)	Front and Rear	**5600**	**7250**	**8100**	**8950**	**9350**	**9750**	**10600**	**11400**	**12150**	**13650**	
				12348	15986	17861	19735	20617	21499	23373	25137	26791	30098	

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **TREAD DESIGN** CAI (Part Number)	Max. dist. / hour **km** *Miles*	TKPH *TMPH* (1)	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (2) Michelin® dimensions						**Measuring Rim** Approved Rims (3) - (4)	Tubeless O-Ring CAI (4)	Tube Type Ref. Flap (4)
			e	D	E	e	D	R'	RC	Tread depth	Cap.			
			mm	**mm**	**mm**	**mm**	**mm**	**mm**	**mm**	**mm**	l			
			inches	*inches*	*inches*	*inches*	*inches*	*inches*	*inches*	*32nd*	*gallon*			
25"														
18.00 R 25 Tubeless														
XVC E2 **186E** 123491	**50** *31.1*	**284** *195*	**551** *21.7*	**1672** *65.8*	**598** *23.5*	**496** *19.5*	**1622** *63.9*	**743** *29.3*	**4925** *193.9*	**26** *32.8*	**563** *149*	**13.00/2.5** 15.00/2.5 (b)	- OR 3-25 SULLA 553200	25 WAM 16-24/25
18.00 R 25 Tubeless														
XVC E2 **183E** 123993 (7)	**50** *31.1*	**284** *195*	**551** *21.7*	**1672** *65.8*	**598** *23.5*	**498** *19.6*	**1610** *63.4*	**743** *29.3*	**4901** *193*	**26** *32.8*	**576** *152*	**13.00/2.5** 15.00/2.5 (b)	- OR 3-25 SULLA 553200	25 WAM 16-24/25

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread Design	Identification code (9)	Explanations on how to choose the tire and to determine the inflation pressures Refer to explanations and methods allowing to determine the inflation pressures (10)	Size

25"

		APPLICATION	bar	2	3	4	5	6	7	7.5	8	9	10	
			psi	*29*	*44*	*58*	*73*	*87*	*102*	*109*	*116*	*131*	*145*	
			(a)											
XVC E2	E2	Cranes	**0 km/h**	**9900**	**12900**	**15900**	**18900**	**21600**	**24200**	**25250**	**26300**	**28800**	**31300**	**18.00 R 25**
			0mph	21830	28445	35060	41675	47628	53361	55676	57992	63504	69017	
			5 km/h	**7000**	**9100**	**11200**	**13300**	**15300**	**17100**	**18050**	**19000**	**23200**		
			3mph	15435	20066	24696	29327	33737	37706	39800	41895	51156		
			10 km/h	**6200**	**8050**	**9950**	**11800**	**13500**	**15150**	**16000**	**16850**	**18500**		
			6mph	13671	17750	21940	26019	29768	33406	35280	37154	40793		
			20 km/h	**4450**	**6000**	**7350**	**8650**	**10000**	**11250**	**11950**	**12600**	**13900**		
			12mph	9812	13230	16207	19073	22050	24806	26350	27783	30650		
			30 km/h	**3700**	**5200**	**6300**	**7400**	**8650**	**9900**	**10500**	**11100**	**12400**		
			19mph	8159	11466	13892	16317	19073	21830	23153	24476	27342		
			40 km/h	**3525**	**4950**	**6000**	**7050**	**8250**	**9400**	**10000**	**10600**	**11800**		
			25mph	7773	10915	13230	15545	18191	20727	22050	23373	26019		
			50 km/h	**3375**	**4725**	**5700**	**6750**	**7850**	**8950**	**9525**	**10100**	**11200**		
			31mph	7442	10419	12569	14884	17309	19735	21003	22271	24696		
			65 km/h	**3050**	**4275**	**5200**	**6100**	**7100**	**8150**	**8650**	**9150**	**10200**		
			40mph	6725	9426	11466	13451	15656	17971	19073	20176	22491		
			70 km/h	**2850**	**4000**	**4850**	**5700**	**6650**	**7600**	**8075**	**8550**	**9500**		
			43mph	6284	8820	10694	12569	14663	16758	17805	18853	20948		
			80 km/h	**2325**	**3275**	**3975**	**4675**	**5450**	**6250**	**6625**	**7000**	**7800**		
			50mph	5127	7221	8765	10308	12017	13781	14608	15435	17199		
			90 km/h	**2000**	**2800**	**3400**	**4000**	**4650**	**5300**	**5650**	**6000**	**6650**		
			56 mph	4410	6174	7497	8820	10253	11687	12458	13230	14663		
			100 km/h	**1700**	**2400**	**2900**	**3400**	**4000**	**4550**	**4750**	**5150**	**5700**		
			62 mph	3749	5292	6395	7497	8820	10033	10474	11356	12569		
XVC E2	E2	Transport	Standard			6800	8000	9250	9850	10150				
						14994	17640	20396	21719	22381				
			(a)											
XVC E2	E2	Cranes	**0 km/h**	**9900**	**12900**	**15900**	**18900**	**21600**	**24200**	**25250**	**26300**	**28800**	**31300**	**18.00 R 25**
			0mph	21830	28445	35060	41675	47628	53361	55676	57992	63504	69017	
			5 km/h	**7000**	**9100**	**11200**	**13300**	**15300**	**17100**	**18050**	**19000**	**23200**		
			3mph	15435	20066	24696	29327	33737	37706	39800	41895	51156		
			10 km/h	**6200**	**8050**	**9950**	**11800**	**13500**	**15150**	**16000**	**16850**	**18500**		
			6mph	13671	17750	21940	26019	29768	33406	35280	37154	40793		
			20 km/h	**4450**	**6000**	**7350**	**8650**	**10000**	**11250**	**19025**	**12600**	**13900**		
			12mph	9812	13230	16207	19073	22050	24806	41950	27783	30650		
			30 km/h	**2730**	**3965**	**5200**	**6435**	**7670**	**8900**	**9520**	**10140**	**11375**		
			19mph	6020	8743	11466	14189	16912	19625	20992	22359	25082		
			40 km/h	**2605**	**3782**	**4960**	**6140**	**7315**	**8500**	**9085**	**9670**	**10850**		
			25mph	5744	8339	10937	13539	16130	18743	20032	21322	23924		
			50 km/h	**2480**	**3600**	**4720**	**5840**	**6960**	**8085**	**8695**	**9205**	**10325**		
			31mph	5468	7938	10408	12877	15347	17827	19172	20297	22767		
			65 km/h	**2225**	**3235**	**4240**	**5245**	**6255**	**7260**	**7765**	**8270**	**9275**		
			40mph	4906	7133	9349	11565	13792	16008	17122	18235	20451		
			70 km/h	**2100**	**3050**	**4000**	**4950**	**5900**	**6850**	**7325**	**7800**	**8750**		
			43mph	4631	6725	8820	10915	13010	15104	16152	17199	19294		
			80 km/h	**1720**	**2500**	**3280**	**4060**	**4840**	**5615**	**6000**	**6390**	**7175**		
			50mph	3793	5513	7232	8952	10672	12381	13230	14090	15821		
			90 km/h	**1470**	**2135**	**2800**	**3465**	**4130**	**4795**	**5125**	**5460**	**6125**		
			56 mph	3241	4708	6174	7640	9107	10573	11301	12039	13506		
			100 km/h	**1260**	**1830**	**2400**	**2970**	**3540**	**4110**	**4395**	**4680**	**5250**		
			62 mph	2778	4035	5292	6549	7806	9063	9691	10319	11576		

(a) The speeds stipulated are average speeds per hour of travel. A maximum speed of 20 km/h (12.5 mph) above the average speed is tolerated provided that the maximum never exceeds 100 km/h (62 mph).

(b) Special wheel for cranes.

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **TREAD DESIGN** CAI (Part Number)	Max. dist. / hour **km** *Miles*	TKPH *TMPH* (1)	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (2) Michelin® dimensions						**Measuring Rim** Approved Rims (3) - (4)	Tubeless O-Ring CAI (4)	Tube Type Ref. Flap (4)
			e	D	E	e	D	R'	RC	Tread depth	Cap.			
			mm *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *32nd*	l *gallon*			
25"														
505/95 R 25 Tubeless (18.00 R 25)														
XVC E2 183E 565628	**50** *31.1*	**284** *195*	**551** *21.7*	**1672** *65.8*	**587** *23.1*	**498** *19.6*	**1610** *63.4*	**742** *29.2*	**4922** *193.8*	**26** *32.8*	**576** *152*	**13.00/2.5** 15.00/2.5 (b)	- OR 3-25 SULLA 553200	25 WAM 16-24/25

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread Design	Identification code (9)	Explanations on how to choose the tire and to determine the inflation pressures Refer to explanations and methods allowing to determine the inflation pressures (10)	Size

25"

		APPLICATION	bar	2	3	4	5	6	7	7.5	8	9	10	
			psi	*29*	*44*	*58*	*73*	*87*	*102*	*109*	*116*	*131*	*145*	
			(a)											
XVC E2	E2	Cranes	**0 km/h**	**9900**	**12900**	**15900**	**18900**	**21600**	**24200**		**26300**	**28800**	**31300**	505/95 R 25 (18.00 R 25)
			0mph	21830	28445	35060	41675	47628	53361		57992	63504	69017	
			2 km/h	**8050**	**10500**	**12900**	**15300**	**17600**	**19700**		**21900**	**25600**	**27900**	
			1.2mph	17750	23153	28445	33737	38808	43439		48290	56448	61520	
			5 km/h	**7000**	**9100**	**11200**	**13300**	**15300**	**17100**		**19000**	**23200**		
			3mph	15435	20066	24696	29327	33737	37706		41895	51156		
			10 km/h	**6200**	**8050**	**9950**	**11800**	**13500**	**15150**		**16850**	**18500**		
			6mph	13671	17750	21940	26019	29768	33406		37154	40793		
			15 km/h	**4950**	**6450**	**7950**	**9450**	**10800**	**12100**		**13500**	**14800**		
			9 mph	10915	14222	17530	20837	23814	26681		29768	32634		
			20 km/h	**4450**	**6000**	**7350**	**8650**	**10000**	**11250**		**12600**	**13900**		
			12mph	9812	13230	16207	19073	22050	24806		27783	30650		
			30 km/h	**2730**	**3965**	**5200**	**6435**	**7670**	**8905**		**10140**	**11375**		
			19mph	6020	8743	11466	14189	16912	19636		22359	25082		
			40 km/h	**2605**	**3782**	**4960**	**6140**	**7315**	**8495**		**9670**	**10850**		
			25mph	5744	8339	10937	13539	16130	18731		21322	23924		
			50 km/h	**2480**	**3600**	**4720**	**5840**	**6960**	**8085**		**9205**	**10325**		
			31mph	5468	7938	10408	12877	15347	17827		20297	22767		
			65 km/h	**2225**	**3235**	**4240**	**5245**	**6255**	**7260**		**8270**	**9275**		
			40mph	4906	7133	9349	11565	13792	16008		18235	20451		
			70 km/h	**2100**	**3050**	**4000**	**4950**	**5900**	**6850**		**7800**	**8750**		
			43mph	4631	6725	8820	10915	13010	15104		17199	19294		
			80 km/h	**1720**	**2500**	**3280**	**4060**	**4840**	**5615**		**6390**	**7175**		
			50mph	3793	5513	7232	8952	10672	12381		14090	15821		
			90 km/h	**1470**	**2135**	**2800**	**3465**	**4130**	**4795**		**5460**	**6125**		
			56 mph	3241	4708	6174	7640	9107	10573		12039	13506		
			100 km/h	**1260**	**1830**	**2400**	**2970**	**3540**	**4110**		**4680**	**5250**		
			62 mph	2778	4035	5292	6549	7806	9063		10319	11576		
XVC E2	E2	Transport	Standard			**6800**	**8000**	**9250**	**9850**	**10150**				
						14994	17640	20396	21719	22381				

(a) The speeds stipulated are average speeds per hour of travel. A maximum speed of 20 km/h (12.5 mph) above the average speed is tolerated provided that the maximum never exceeds 100 km/h (62 mph).

(b) Special wheel for cranes.

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **TREAD DESIGN** CAI (Part Number)	Max. dist. / hour **km** *Miles*	TKPH *TMPH* (1)	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (2) Michelin® dimensions						**Measuring Rim** Approved Rims (3) - (4)	Tubeless O-Ring CAI (4)	Tube Type Ref. Flap (4)
			e	D	E	e	D	R'	RC	Tread depth	Cap.			
			mm *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *32nd*	l *gallon*			
25"														
20.5 R 25 Tubeless														
XADN E3T ** 177B 123407	**28** *17.4*		**577** *22.7*	**1561** *61.5*		**528** *20.8*	**1490** *58.7*	**667** *26.3*	**4484** *176.5*	**36** *45.4*	**474** *125*	**17.00/2.0**	- OR 3-25 SULLA 553200	24/25 VAM 17-24/25
XADT E4T ** 177B 123335	**22** *13.7*					**527** *20.7*	**1492** *58.7*		**4489** *176.7*	**44** *55.4*	**455** *120*			
XK A L3 ** 263460	**14** *8.7*		**577** *22.7*	**1561** *61.5*		**562** *22.1*	**1482** *58.3*	**649** *25.6*	**4425** *174.2*	**28** *35.3*	**485** *128*	**17.00/1.7**	- OR 3-25 SULLA 553200 OR 2-25 HEUPO 553201	24/25 VAM 17-24/25
XHA L3 * 263451	**16** *9.9*					**527** *20.7*		**646** *25.4*	**4417** *173.9*	**31** *39.1*	**495** *131*			
X SNOPLUS L2T * 123795	**16** *9.9*					**534** *21*	**1471** *57.9*	**633** *24.9*	**4364** *171.8*		**500** *132*			
XTLA L2 * 123435 (5)	**16** *9.9*					**532** *20.9*	**1480** *58.3*	**637** *25.1*	**4391** *172.9*					
XR D1 A L4 * 263402 (8)	**14** *8.7*			**1621** *63.8*		**555** *21.9*	**1530** *60.2*	**677** *26.7*	**4585** *180.5*	**43** *54.2*	**485** *128*			
XLD D2 A L5T * 123325	**10** *6.2*					**534** *21*		**676** *26.6*	**4582** *180.4*	**72** *90.7*	**427** *113*			
X MINE D2 L5R * 266823	**6** *3.7*					**524** *20.6*		**689** *27.1*	**4616** *181.7*	**74** *93.2*	**430** *114*			
XSM D2+ L5S 123667	**6** *3.7*					**534** *21*	**1524** *60*	**682** *26.9*	**4587** *180.6*	**78** *98.3*	**410** *108*			
20.5 R 25 Tubeless														
XHA 2 L3 TL * **186 A2** 899613	**16** *9.9*		**577** *22.7*	**1561** *61.5*		**528** *20.8*	**1486** *58.5*	**644** *25.4*	**4420** *174*	**33** *41.6*	**489** *129*	17.00/1.7 **17.00/2.0**	- OR 3-25 SULLA 553200 OR 2-25 HEUPO 553201	24/25 VAM 17-24/25

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread Design	Identification code (9)	Explanations on how to choose the tire and to determine the inflation pressures Refer to explanations and methods allowing to determine the inflation pressures (10)	Size

25"

		APPLICATION		bar	2	2.25	2.5	3	3.25	3.5	4	4.25	4.5		
				psi	*29*	*33*	*36*	*44*	*47*	*51*	*58*	*62*	*65*		
XADN ** E3T XADT ** E4T	E3T E4T	Articulated dumpers	Standard		**4750**	**5000**	**5250**	**5750**	**6000**	**6250**	**6800**	**7050**	**7300**		20.5 R 25
					10474	11025	11576	12679	13230	13781	14994	15545	16097		
XK A ** L3 XHA * L3 XTLA * L2 X SNOPLUS * L2T XR D1 A * L4 XLD D2 A * L5T X MINE D2 * L5R XSM D2+ L5S	L3 L3 L2 L2T L4 L5T L5R L5S	Loaders	Front laden		**6250**	**6615**	**6980**	**7700**	**8000**	**8400**	**9150**	**9500**	**9900**		
					13781	14586	15391	16979	17640	18522	20176	20948	21830		
			Rear unladen		**5000**	**5300**	**5600**	**6150**	**6400**	**6700**	**7300**	**7600**	**7900**		
					11025	11687	12348	13561	14112	14774	16097	16758	17420		
XK A ** L3 XLD D2 A * L5T X MINE D2 * L5R XSM D2+ L5S	L3 L5T L5R L5S	Underground machines (see page 39-41)	Front and Rear		**5650**	**5975**	**6300**	**6950**	**7200**	**7550**	**8250**	**8550**	**8900**		
					12458	13175	13892	15325	15876	16648	18191	18853	19625		
XHA * L3 XTLA * L2 X SNOPLUS * L2T XR D1 A * L4 XLD D2 A * L5T	L3 L2 L2T L4 L5T	Graders	Front and Rear		**3600**	**3857**	**4113**	**4625**							
					7938	8505	9069	10198							

		APPLICATION		bar	2	2.25	2.5	3	3.25	3.5	4	4.25	4.5		
				psi	*29*	*33*	*36*	*44*	*47*	*51*	*58*	*62*	*65*		
XHA 2	L3	Loaders	Front laden		**6250**	**6615**	**6980**	**7700**	**8000**	**8400**	**9150**	**9500**	**9900**		20.5 R 25
					13781	14586	15391	16979	17640	18522	20176	20948	21830		
			Rear unladen		**5000**	**5300**	**5600**	**6150**	**6400**	**6700**	**7300**	**7600**	**7900**		
					11025	11687	12348	13561	14112	14774	16097	16758	17420		
		Graders	Front and Rear		**3600**	**3857**	**4113**	**4625**							
					7938	8505	9069	10198							

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **TREAD DESIGN** CAI (Part Number)	Max. dist. / hour **km** *Miles*	TKPH *TMPH* (1)	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (2) Michelin® dimensions						**Measuring Rim** Approved Rims (3) - (4)	Tubeless O-Ring CAI (4)	Tube Type Ref. Flap (4)
			e	D	E	e	D	R'	RC	Tread depth	Cap.			
			mm	**mm**	**mm**	**mm**	**mm**	**mm**	**mm**	**mm**	l			
			inches	*inches*	*inches*	*inches*	*inches*	*inches*	*inches*	*32nd*	*gallon*			
25"														
525/80 R 25 Tubeless (20.5 R 25)														
XGC E2 179E 822796	**70** *43.5*		**588** *23.1*	**1542** *60.7*	**596** *23.5*	**522** *20.6*	**1490** *58.7*	**684** *26.9*	**4528** *178.3*	**31** *39.1*	**508** *134*	**17.00/1.7 CR** 17.00/2.0 (b)	- OR 3-25 SULLA 553200	24/25 VAM 17-24/25

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread Design	Identification code (9)	Explanations on how to choose the tire and to determine the inflation pressures Refer to explanations and methods allowing to determine the inflation pressures (10)	Size

25"

		APPLICATION	bar	2	3	4	5	6	7					
			psi	*29*	*44*	*58*	*73*	*87*	*102*					
			(a)											
XGC E2	E2	Cranes	**0 km/h**	**10000**	**12300**	**14600**	**17100**	**19400**	**21500**					**525/80 R 25**
			0mph	22050	27122	32193	37706	42777	47408					
			5 km/h	**7050**	**8700**	**10300**	**12100**	**13700**	**15200**					
			3mph	15545	19184	22712	26681	30209	33516					
			10 km/h	**6250**	**7700**	**9150**	**10700**	**12150**	**13450**					
			6mph	13781	16979	20176	23594	26791	29657					
			20 km/h	**4500**	**5700**	**6900**	**8150**	**9350**	**10550**					
			12mph	9923	12569	15215	17971	20617	23263					
			30 km/h	**3700**	**4950**	**6200**	**7500**	**8800**	**10100**					
			19mph	8159	10915	13671	16538	19404	22271					
			40 km/h	**3525**	**4700**	**5900**	**7150**	**8350**	**9600**					
			25mph	7773	10364	13010	15766	18412	21168					
			50 km/h	**3375**	**4475**	**5600**	**6800**	**7950**	**9150**					
			31mph	7442	9867	12348	14994	17530	20176					
			65 km/h	**3050**	**4075**	**5100**	**6150**	**7200**	**8300**					
			40mph	6725	8985	11246	13561	15876	18302					
			70 km/h	**2850**	**3800**	**4750**	**5750**	**6750**	**7750**					
			43mph	6284	8379	10474	12679	14884	17089					
			80 km/h	**2325**	**3125**	**3900**	**4725**	**5550**	**6350**					
			50mph	5127	6891	8600	10419	12238	14002					
			90 km/h	**2000**	**2650**	**3350**	**4050**	**4750**	**5450**					
			56 mph	4410	5843	7387	8930	10474	12017					
			100 km/h	**1700**	**2275**	**2850**	**3450**	**4050**	**4650**					
			62 mph	3749	5016	6284	7607	8930	10253					

(a) The speeds stipulated are average speeds per hour of travel. A maximum speed of 20 km/h (12.5 mph) above the average speed is tolerated provided that the maximum never exceeds 100 km/h (62 mph).

(b) Special wheel for cranes.

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **TREAD DESIGN** CAI (Part Number)	Max. dist. / hour **km** *Miles*	TKPH *TMPH* (1)	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (2) Michelin® dimensions						**Measuring Rim** Approved Rims (3) - (4)	Tubeless O-Ring CAI (4)	Tube Type Ref. Flap (4)
			e	D	E	e	D	R'	RC	Tread depth	Cap.			
			mm *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *32nd*	**l** *gallon*			
25"														
21.00 R 25 TubeType														
XRIB E7 276640 (8)			**1839** *72.4*	**634** *25*		**565** *22.2*	**1726** *68*	**769** *30.3*	**5185** *204.1*	**12** *15.1*	**700** *185*	**15.00/3.0** 17.00/3.0	- OR 3-25 SULLA 553200	25 YBAM 17-24/25
21.00 R 25 Tubeless														
XR B E3 ** 270800 (8)	**35** *21.7*	**340** *233*	**634** *25*	**1839** *72.4*	**685** *27*	**560** *22*	**1738** *68.4*	**786** *30.9*	**5251** *206.7*	**32** *40.3*	**700** *185*	**15.00/3.0** 17.00/3.0	- OR 3-25 SULLA 553200	25 YBAM 17-24/25
XK A L3 ** 270850	**14** *8.7*					**609** *24*	**1768** *69.6*	**800** *31.5*	**5343** *210.4*	**33** *41.6*				
21.00 R 25 Tubeless														
XK A L3 ** 270850	**14** *8.7*		**634** *25*	**1839** *72.4*		**609** *24*	**1768** *69.6*	**800** *31.5*	**5343** *210.4*	**33** *41.6*	**700** *185*	**15.00/3.0** 17.00/3.0	- OR 3-25 SULLA 553200	25 YBAM 17-24/25
550/65 R 25 Tubeless														
XTLA L2T * 123316 (5)	**16** *9.9*		**574** *22.6*	**1371** *54*		**540** *21.3*	**1400** *55.1*	**603** *23.7*	**4154** *163.5*	**33** *41.6*	**446** *118*	**17.00/1.7** 17.00/2.0	- OR 3-25 SULLA 553200 OR 2-25 HEUPO 553201	24/25 VAM 17-24/25
XLD 65 L3 L3T * 123570	**16** *9.9*					**549** *21.6*		**602** *23.7*	**4152** *163.5*	**32** *40.3*	**450** *119*			
XLD 65 SUPER L3 SUPER L3T * 123168 (7)	**14** *8.7*					**546** *21.5*	**1422** *56*	**619** *24.4*	**4236** *166.8*	**41** *51.7*				
555/70 R 25 Tubeless														
XHF L3F * 123643 (8)	**16** *9.9*		**611** *24.1*	**1478** *58.2*	**0** *0*	**542** *21.3*	**1404** *55.3*	**595** *23.4*	**4141** *163*	**28** *35.3*	**461** *122*	**17.00/1.7** 17.00/2.0	- OR 3-25 SULLA 553200 OR 2-25 HEUPO 553201	24/25 VAM 17-24/25

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread Design	Identification code (9)	Explanations on how to choose the tire and to determine the inflation pressures Refer to explanations and methods allowing to determine the inflation pressures (10)	Size

25"

		APPLICATION			bar	1	1.5	2	2.5	3	3.5	4	4.5	5	6	Size
					psi	*15*	*22*	*29*	*36*	*44*	*51*	*58*	*65*	*73*	*87*	
XRIB E7	E7	Desert	**65 km/h**	Road in single		**2500**	**3050**	**3750**	**4500**	**5250**	**6000**	**6650**	**7350**	**8050**	**9500**	21.00 R 25
			40 mph			5513	6725	8269	9923	11576	13230	14663	16207	17750	20948	
			50 km/h	Track in single		**2750**	**3750**	**4750**	**5800**	**6800**	**7800**					
			30 mph			6064	8269	10474	12789	14994	17199					
			15 km/h	Sand in single		**4250**	**6000**	**7600**								
			9.3 mph			9371	13230	16758								
			65 km/h	Road in dual		**4500**	**5490**	**6750**	**8100**	**9450**	**10800**	**12870**	**13230**	**14490**	**17100**	
			40 mph			9923	12105	14884	17861	20837	23814	28378	29172	31950	37706	
			50 km/h	Track in dual		**4950**	**6750**	**8550**	**10440**	**12240**	**14040**					
			30 mph			10915	14884	18853	23020	26989	30958					
			15 km/h	Sand in dual		**7650**	**10800**	**13680**								
			9.3 mph			16868	23814	30164								

		APPLICATION		bar	4	4.5	5	5.5	6	6.5	7	7.5	8		Size
				psi	*58*	*65*	*73*	*80*	*87*	*94*	*102*	*109*	*116*		
XR B ** E3 XK A ** L3	E3 L3	Transport	Standard		**8350**	**9100**	**9850**	**10600**	**11400**	**12150**	**12550**	**12925**	**13300**		21.00 R 25
					18412	20066	21719	23373	25137	26791	27673	28500	29327		

		APPLICATION		bar	2	3	4	5	6	7	8				Size
				psi	*29*	*44*	*58*	*73*	*87*	*102*	*116*				
XK A ** L3	L3	Underground machines (see page 39-41)	Front and Rear		**6600**	**8500**	**10400**	**12300**	**14250**	**15650**	**16600**				21.00 R 25
					14553	18743	22932	27122	31421	34508	36603				

		APPLICATION		bar	2	2.25	2.5	3	3.25	3.5	4	4.25	4.5	5	Size
				psi	*29*	*33*	*36*	*44*	*47*	*51*	*58*	*62*	*65*	*73*	
XTLA * L2T XLD 65 L3 * L3T XLD 65 SUPER L3 * SUPER L3T	L2T L3T SUPER L3T	Loaders	Front laden		**4900**	**5350**	**5800**	**6700**	**7150**	**7600**	**8500**	**8950**	**9400**	**10300**	550/65 R 25
					10805	11797	12789	14774	15766	16758	18743	19735	20727	22712	
			Rear unladen		**3925**	**4290**	**4650**	**5350**	**5720**	**6075**	**6800**	**7165**	**7525**	**8250**	
					8655	9459	10253	11797	12613	13395	14994	15799	16593	18191	
XTLA * L2T XLD 65 L3 * L3T XLD 65 SUPER L3 * SUPER L3T	L2T L3T SUPER L3T	Underground machines (see page 39-41)	Front and Rear		**2940**	**3210**	**3480**	**4020**	**4290**	**4560**	**5100**				
					6483	7078	7673	8864	9459	10055	11246				
XHF * L3F	L3F	Loaders	Front laden		**5450**	**5900**	**6350**	**7300**	**7750**	**8200**					555/70 R 25
					12017	13010	14002	16097	17089	18081					
			Rear unladen		**4350**	**4700**	**5100**	**5850**	**6200**	**6550**					
					9592	10364	11246	12899	13671	14443					
XHF * L3F	L3F	Graders	Front and Rear		**3275**	**3550**	**3800**	**4375**							
					7221	7828	8379	9647							

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **TREAD DESIGN** CAI (Part Number)	Max. dist. / hour **km** *Miles*	TKPH *TMPH* (1)	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (2) Michelin® dimensions						**Measuring Rim** Approved Rims (3) - (4)	Tubeless O-Ring CAI (4)	Tube Type Ref. Flap (4)
			e	D	E	e	D	R'	RC	Tread depth	Cap.			
			mm *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *32nd*	**l** *gallon*			
25"														
23.5 R 25 Tubeless														
XADN E3T ** 185B 123417	**28** *17.4*		**663** *26.1*	**1696** *66.8*		**601** *23.7*	**1612** *63.5*	**727** *28.6*	**4866** *191.6*	**38** *47.9*	**654** *173*	**19.50/2.5**	- OR 3-25 SULLA 553200	25 WAM 18-24/25
XADT E4T 185B 123375 (8)	**22** *13.7*					**597** *23.5*		**718** *28.3*	**4843** *190.7*	**47** *59.2*	**660** *174*			
X-SUPER TERRAIN AD E4T ** 185B 769360	**26** *16.2*					**603** *23.7*	**1623** *63.9*	**729** *28.7*	**4900** *192.9*	**51** *64.3*	**650** *172*			
XK A L3 ** 263670	**14** *8.7*		**663** *26.1*	**1696** *66.8*		**630** *24.8*	**1608** *63.3*	**696** *27.4*	**4780** *188.2*	**30** *37.8*	**635** *168*	**19.50/2.5**	- OR 3-25 SULLA 553200	25 WAM 18-24/25
X SNOPLUS L2T * 460452	**16** *9.9*					**603** *23.7*	**1610** *63.4*	**683** *26.9*	**4751** *187*	**34** *42.8*	**670** *177*			
XTLA L2 * 123445 (5)	**16** *9.9*					**596** *23.5*	**1614** *63.5*	**688** *27.1*	**4771** *187.8*		**680** *180*			
XHA L3 * 123054	**16** *9.9*					**602** *23.7*	**1606** *63.2*	**690** *27.2*	**4761** *187.4*	**35** *44.1*	**660** *174*			
XHA 2 L3 TL* 195 A2 263670	**14** *8.7*					**599** *23.6*	**1612** *63.5*	**690** *27.2*	**4773** *187.9*	**36** *45.4*	**672** *178*			
XR D1 A L4 * 266930 (8)	**14** *8.7*			**1756** *69.1*		**639** *25.2*	**1661** *65.4*	**722** *28.4*	**4944** *194.6*	**49** *61.7*	**688** *182*			
XLD D2 A L5T * 123326	**10** *6.2*					**612** *24.1*	**1662** *65.4*	**716** *28.2*	**4947** *194.8*	**77** *97*	**600** *159*			
X MINE D2 L5R 266931	**6** *3.7*					**637** *25.1*	**1656** *65.2*	**707** *27.8*	**4898** *192.8*	**83** *104.6*	**590** *156*			
XSM D2+ L5S 123677	**6** *3.7*			**1696** *66.8*		**617** *24.3*	**1653** *65.1*	**738** *29.1*	**4969** *195.6*	**88** *110.9*	**611** *161*			
600/65 R 25 Tubeless														
XLD 65 L3 L3T * 063799	**16** *9.9*		**636** *25*	**1438** *56.6*	**727** *28.6*	**622** *24.5*	**1429** *56.3*	**618** *24.3*	**4246** *167.2*	**34** *42.8*	**484** *128*	17.00/1.7 17.00/2.0 **19.50/2.5**	- OR 3-25 SULLA 553200	- -
650/65 R 25 Tubeless														
XAD 65 SUPER E3T ** 180B 840573	**28** *17.4*		**672** *26.5*	**1505** *59.3*		**630** *24.8*	**1494** *58.8*	**670** *26.4*	**4500** *177.2*	**40** *50.4*	**595** *157*	**19.50/2.5** 22.00/3.0	- OR 3-25 SULLA 553200	- -

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread Design	Identification code (9)	Explanations on how to choose the tire and to determine the inflation pressures Refer to explanations and methods allowing to determine the inflation pressures (10)	Size

25"

		APPLICATION	bar / psi	2 / 29	2.5 / 36	3 / 44	3.25 / 47	3.5 / 51	4 / 58	4.5 / 65	5 / 73	5.5 / 80		Size
XADN ** E3T XADT E4T X-SUPER TERRAIN AD ** E4T	E3T E4T E4T	Articulated dumpers	Standard	**5650**	**6380**	**7100**	**7450**	**7800**	**8550**	**9250**	**9950**	**10350**		23.5 R 25
				12458	14068	15656	16427	17199	18853	20396	21940	22822		
XK A ** L3 X SNOPLUS * L2T XTLA * L2 XHA * L3 XHA 2 * L3 XR D1 A * L4 XLD D2 A * L5T X MINE D2 L5R XSM D2+ L5S	L3 L2T L2 L3 L3 L4 L5T L5R L5S	Loaders	Front laden	**8100**	**9100**	**10150**	**10650**	**11150**	**12150**	**13350**				
				17861	20066	22381	23483	24586	26791	29437				
			Rear unladen	**6500**	**7300**	**8100**	**8500**	**8900**	**9700**	**10700**				
				14333	16097	17861	18743	19625	21389	23594				
XK A ** L3 XLD D2 A * L5T X MINE D2 L5R XSM D2+ L5S	L3 L5T L5R L5S	Underground machines (see page 39-41)	Front and Rear	**7300**	**8200**	**9150**	**9600**	**10050**	**10950**	**12000**				
				16097	18081	20176	21168	22160	24145	26460				
X SNOPLUS * L2T XTLA * L2 XHA * L3 XHA 2 * L3 XR D1 A * L4 XLD D2 A * L5T	L2T L2 L3 L3 L4 L5T	Graders	Front and Rear	**4875**	**5425**	**6000**								
				10749	11962	13230								

		APPLICATION	bar / psi	2 / 29	2.5 / 36	3 / 44	3.5 / 51	4 / 58	4.5 / 65	5 / 73				Size
XLD 65 L3 * L3T	L3T	Loaders	Front laden	**5650**	**6675**	**7700**	**8725**	**9750**	**10725**	**11700**				600/65 R 25
				12458	14718	16979	19239	21499	23649	25799				
			Rear unladen	**4520**	**5340**	**6160**	**6980**	**7800**	**8580**	**9360**				
				9967	11775	13583	15391	17199	18919	20639				
XLD 65 L3 * L3T	L3T	Graders	Front and Rear	**3390**	**4005**	**4600**								
				7475	8831	10143								

		APPLICATION	bar / psi	2.5 / 36	3 / 44	3.5 / 51	4 / 58							Size
XAD 65 ** SUPER E3T	SUPER E3T	Articulated dumpers	Standard	**5450**	**6300**	**7150**	**8000**							650/65 R 25
				12017	13892	15766	17640							

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **TREAD DESIGN** CAI (Part Number)	Max. dist. / hour **km** *Miles*	TKPH *TMPH* (1)	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (2) Michelin® dimensions						**Measuring Rim** Approved Rims (3) - (4)	Tubeless O-Ring CAI (4)	Tube Type Ref. Flap (4)
			e	D	E	e	D	R'	RC	Tread depth	Cap.			
			mm *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *32nd*	l *gallon*			
25"														
650/65 R 25 Tubeless														
XLD 65 L3 L3T * 123820	**16** *9.9*		**672** *26.5*	**1505** *59.3*		**634** *25*	**1498** *59*	**636** *25*	**4422** *174.1*	**37** *46.6*	**596** *157*	**19.50/2.5**	- OR 3-25 SULLA 553200	- -
XLD 65 SUPER L3T * 123188 (8)	**14** *8.7*			**1563** *61.5*		**635** *25*	**1524** *60*	**649** *25.6*	**4504** *177.3*	**48** *60.5*				
26.5 R 25 Tubeless														
XADN E3T ** 193B 123427	**28** *17.4*		**747** *29.4*	**1839** *72.4*	**774** *30.5*	**670** *26.4*	**1740** *68.5*	**775** *30.5*	**5228** *205.8*	**41** *51.7*	**900** *238*	**22.00/3.0** 22.00/3.0 IF	- OR 3-25 SULLA 553200	25 YBAM 18-24/25
XADT E4T ** 193B 123447	**22** *13.7*					**676** *26.6*	**1738** *68.4*	**774** *30.5*	**5221** *205.6*	**52** *65.5*	**910** *240*			
X-SUPER TERRAIN AD E4T ** 193B 689443 (7)	**24** *14.9*				**724** *28.5*	**680** *26.8*	**1740** *68.5*		**5225** *205.7*	**54** *68*	**862** *228*			

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread Design	Identification code (9)	Explanations on how to choose the tire and to determine the inflation pressures Refer to explanations and methods allowing to determine the inflation pressures (10)	Size

25"

		APPLICATION		bar	2	2.5	3	3.5	4	4.5	5				Size
				psi	*29*	*36*	*44*	*51*	*58*	*65*	*73*				
XLD 65 L3 * L3T XLD 65 SUPER L3T *	L3T SUPER L3T	Loaders	Front laden		**6700**	**7900**	**9100**	**10300**	**11500**	**12700**	**13900**				**650/65 R 25**
					14774	17420	20066	22712	25358	28004	30650				
			Rear unladen		**5400**	**6350**	**7300**	**8250**	**9200**	**10150**	**11100**				
					11907	14002	16097	18191	20286	22381	24476				
XLD 65 L3 * L3T XLD 65 SUPER L3T *	L3T SUPER L3T	Graders	Front and Rear		**4100**	**4800**	**5500**	**6200**	**6900**	**7600**	**8300**				
					9041	10584	12128	13671	15215	16758	18302				

		APPLICATION		bar	2	2.25	2.5	2.75	3	3.25	3.5	4	4.25	4.5	Size
				psi	*29*	*33*	*36*	*40*	*44*	*47*	*51*	*58*	*62*	*65*	
XADN ** E3T XADT ** E4T X-SUPER TERRAIN AD ** E4T	E3T E4T E4T	Articulated dumpers	Standard		**6500**	**7000**	**7500**	**8000**	**8500**	**9000**	**9500**	**10500**	**11000**	**11500**	**26.5 R 25**
					14333	15435	16538	17640	18743	19845	20948	23153	24255	25358	

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **TREAD DESIGN** CAI (Part Number)	Max. dist. / hour **km** *Miles*	TKPH *TMPH* (1)	Standardized dimensions maximum in service e **mm** *inches*	 D **mm** *inches*	 E **mm** *inches*	DIMENSIONAL CHARACTERISTICS (2) Michelin® dimensions e **mm** *inches*	 D **mm** *inches*	 R' **mm** *inches*	 RC **mm** *inches*	 Tread depth **mm** *32nd*	 Cap. **l** *gallon*	**Measuring Rim** Approved Rims (3) - (4)	Tubeless O-Ring CAI (4)	Tube Type Ref. Flap (4)
25"														
26.5 R 25 Tubeless														
XK A L3 ** 273360	**14** *8.7*		**747** *29.4*	**1839** *72.4*		**714** *28.1*	**1734** *68.3*	**748** *29.4*	**5148** *202.7*	**35** *44.1*	**855** *226*	**22.00/3.0** 22.00/3.0 IF	- OR 3-25 SULLA 553200	25 YBAM 18-24/25
XHA L3 * 123433	**16** *9.9*					**673** *26.5*	**1736** *68.3*	**739** *29.1*	**5130** *202*	**37** *46.6*	**869** *230*			
XHA 2 L3 TL** **209 A2** 893825	**16** *9.9*					**681** *28.8*	**1731** *68.1*	**736** *29*	**5114** *201.3*	**41** *51*	**879** *232*			
XSM DN L3S 123022	**14** *8.7*					**724** *28.5*	**1726** *68*	**770** *30.3*	**5189** *204.3*	**48** *60.5*	**890** *235*			
XLD D1 A L4R * 123495	**14** *8.7*			**1891** *74.4*		**690** *27.2*	**1803** *71*	**781** *30.7*	**5360** *211*	**53** *66.8*	**947** *250*			
XLD D2 A L5T * 123094	**10** *6.2*					**687** *27*	**1800** *70.9*	**778** *30.6*	**5348** *210.6*	**87** *109.6*	**825** *218*			
X MINE D2 L5R * 273400	**6** *3.7*					**718** *28.3*	**1794** *70.6*	**796** *31.3*	**5382** *211.9*	**91** *114.6*	**820** *217*			
XSM D2+ L5S 123687	**6** *3.7*					**692** *27.2*	**1788** *70.4*	**799** *31.5*	**5377** *211.7*	**102** *128.5*	**760** *201*			
29.5 R 25 Tubeless														
XADN E E3V ** **200E** 123703 (8)	**50** *31.1*		**833** *32.8*	**1972** *77.6*		**743** *29.3*	**1850** *72.8*	**817** *32.2*	**5541** *218.1*	**44** *55.4*	**1180** *312*	**25.00/3.5**	- OR 3-25 SULLA 553200	25 YBAM 19-25
29.5 R 25 Tubeless														
XHA 2 L3 TL * * **216 A2** 961307	**16** *9.9*		**833** *32.8*	**1972** *77.6*		**747** *29.4*	**1860** *73.2*	**795** *31*	**5504** *216.7*	**43** *54*	**1177** *310*	**25.00/3.5**	- OR 3-25 SULLA 553200	25 YBAM 19-25
29.5 R 25 Tubeless														
XADN E3T ** 200B 123437	**28** *17.4*		**833** *32.8*	**1972** *77.6*		**743** *29.3*	**1850** *72.8*	**817** *32.2*	**5541** *218.1*	**44** *55.4*	**1180** *312*	**25.00/3.5**	- OR 3-25 SULLA 553200	25 YBAM 19-25
XADT E4T ** 200B 123457 (8)	**22** *13.7*					**748** *29.4*	**1860** *73.2*	**825** *32.5*	**5579** *219.6*	**57** *71.8*	**1080** *285*			
X-SUPER TERRAIN AD E4T ** 200B 111168 (7)	**22** *13.7*					**762** *30*	**1858** *73.1*		**5576** *219.5*	**60** *75.6*	**1120** *296*			
XK A L3 ** 273560	**14** *8.7*		**833** *32.8*	**2024** *79.7*		**793** *31.2*	**1856** *73.1*	**799** *31.5*	**5507** *216.8*	**38** *47.9*	**1145** *303*	**25.00/3.5**	- OR 3-25 SULLA 553200	25 YBAM 19-25
XHA L3 * 123198	**16** *9.9*			**1972** *77.6*		**750** *29.5*	**1862** *73.3*	**796** *31.3*	**5510** *216.9*	**40** *50.4*	**1144** *302*			
XLD D1 A L4R * 123741	**14** *8.7*			**2024** *79.7*		**769** *30.3*	**1906** *75*	**840** *33.1*	**5704** *224.6*	**58** *73.1*	**1171** *309*			
XLD D2 A L5T * 123278	**10** *6.2*					**762** *30*	**1900** *74.8*	**821** *32.3*	**5645** *222.2*	**95** *119.7*	**985** *260*			
X MINE D2 L5R 273527	**6** *3.7*					**804** *31.7*		**838** *33*	**5688** *223.9*	**100** *126*	**988** *261*			

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread Design	Identification code (9)	Explanations on how to choose the tire and to determine the inflation pressures Refer to explanations and methods allowing to determine the inflation pressures (10)	Size

25"

		APPLICATION	bar	2	2.5	3	3.25	3.5	4	4.5	5	5.5		
			psi	*29*	*36*	*44*	*47*	*51*	*58*	*65*	*73*	*80*		
XK A ** L3 XHA * L3 XHA 2 L3 XSM DN L3S XLD D1 A * L4R XLD D2 A * L5T X MINE D2 * L5R XSM D2+ L5S	L3 L3 L3 L3S L4R L5T L5R L5S	Loaders	Front laden	**9300**	**10267**	**12150**	**12850**	**13600**	**15000**	**16150**	**17350**	**18500**		26.5 R 25
				20507	22639	26791	28334	29988	33075	35611	38257	40793		
			Rear unladen	**7450**	**8217**	**9700**	**10300**	**10900**	**12000**	**12900**	**13900**	**14800**		
				16427	18118	21389	22712	24035	26460	28445	30650	32634		
XK A ** L3 XSM DN L3S XLD D1 A * L4R XLD D2 A * L5T X MINE D2 * L5R XSM D2+ L5S	L3 L3S L4R L5T L5R L5S	Underground machines (see page 39-41)	Front and Rear	**8350**	**9250**	**10950**	**11550**	**12250**	**13500**	**14550**	**15600**	**16650**		
				18412	20396	24145	25468	27011	29768	32083	34398	36713		
XHA * L3 XHA 2 L3	L3 L3	Graders	Front and Rear	5400	6400	7500								
				11907	14112	16538								

		APPLICATION	bar	2	2.5	3	3.25	3.5	4	4.5	5	5.5		
			psi	*29*	*36*	*44*	*47*	*51*	*58*	*65*	*73*	*80*		
XADN E ** E3V	E3V	Articulated dumpers	Standard	**7800**	**9050**	**10300**	**10900**	**11500**	**12750**	**14000**				29.5 R 25
				17199	19955	22712	24035	25358	28114	30870				
			70 km/h			**7800**	**8575**	**9350**	**10900**	**11500**	**12750**	**14000**		
			43 mph			17199	18908	20617	24035	25358	28114	30870		
XHA 2	L3	Loaders	Front laden	**11150**	**12285**	**14600**	**15450**	**16300**	**18000**	**19450**	**20950**	**22400**		20.5 R 25
				24586	27088	32193	34067	35942	39690	42887	46195	49392		
			Rear unladen	**8900**	**9833**	**11700**	**12350**	**13050**	**14400**	**15550**	**16750**	**17900**		
				19625	21682	25799	27232	28775	31752	34288	36934	39470		
XADN ** E3T XADT ** E4T X-SUPER TERRAIN AD ** E4T	E3T E4T E4T	Articulated dumpers	Standard	**7800**	**9050**	**10300**	**10900**	**11500**	**12750**	**14000**				29.5 R 25
				17199	19955	22712	24035	25358	28114	30870				
XK A ** L3 XHA * L3 XLD D1 A * L4R XLD D2 A * L5T X MINE D2 L5R	L3 L3 L4R L5T L5R	Loaders	Front laden	**11150**	**12285**	**14600**	**15450**	**16300**	**18000**	**19450**	**20950**	**22400**		
				24586	27088	32193	34067	35942	39690	42887	46195	49392		
			Rear unladen	**8900**	**9833**	**11700**	**12350**	**13050**	**14400**	**15550**	**16750**	**17900**		
				19625	21682	25799	27232	28775	31752	34288	36934	39470		
XK A ** L3 XLD D1 A * L4R XLD D2 A * L5T X MINE D2 L5R	L3 L4R L5T L5R	Underground machines (see page 39-41)	Front and Rear	**10050**	**11050**	**13150**	**13900**	**14650**	**16200**	**17500**	**18850**	**20150**		
				22160	24365	28996	30650	32303	35721	38588	41564	44431		

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **TREAD DESIGN** CAI (Part Number)	Max. dist. / hour **km** *Miles*	TKPH *TMPH* (1)	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (2) Michelin® dimensions						**Measuring Rim** Approved Rims (3) - (4)	Tubeless O-Ring CAI (4)	Tube Type Ref. Flap (4)
			e	D	E	e	D	R'	RC	Tread depth	Cap.			
			mm *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *32nd*	l *gallon*			
25"														
750/65 R 25 Tubeless														
XAD 65 SUPER E3T ** 190B 123895	**28** *17,4*		**792** *31,2*	**1639** *64,5*		**738** *29,1*	**1599** *63*	**702** *27,6*	**4777** *188,1*	**43** *54,2*	**810** *214*	22.00/3.0 **24.00/3.0** 25.00/3.0	- OR 3-25 SULLA 553200	- -
750/65 R 25 Tubeless														
XLD 65 L3 L3T * 123940	**16** *9,9*		**792** *31,2*	**1639** *64,5*		**747** *29,4*	**1591** *62,6*	**683** *26,9*	**4714** *185,6*	**41** *51,7*	**788** *208*	22.00/3.0 **24.00/3.0**	- OR 3-25 SULLA 553200	- -
850/65 R 25 Tubeless														
XAD 65 SUPER E3T ** 196B 978610	**28** *17,4*		**896** *35,3*	**1773** *69,8*		**811** *31,9*	**1729** *68,1*	**753** *29,6*	**5150** *202,8*	**47** *59,2*	**1115** *295*	**25.00/3.5** 27.00/3.0 27.00/3.5	- OR 3-25 SULLA 553200	- -
26"														
480/80 R 26 Tubeless														
XMCL 160A8 160B 719306			**479** *18,9*	**1428** *56,2*	**626** *24,6*	**487** *19,2*	**1422** *56*	**636** *25*	**4220** *166,1*	**36** *45,4*	**405** *107*	22.00/3.0 **24.00/3.0**	- OR 3-25 SULLA 553200	- -
28"														
440/80 R 28 Tubeless														
XMCL 156A8 156B 316223			**441** *17,4*	**1415** *55,7*	**822** *32,4*	**459** *18,1*	**1410** *55,5*	**641** *25,2*	**4200** *165,4*	**36** *45,4*	**347** *92*	**DW14L** DW15L	-	KLEBER 822 -

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread Design	Identification code (9)	Explanations on how to choose the tire and to determine the inflation pressures Refer to explanations and methods allowing to determine the inflation pressures (10)	Size

25"

		APPLICATION		bar	2.5	3	3.25	3.5	4						
				psi	*36*	*44*	*47*	*51*	*58*						
XAD 65 ** SUPER E3T	SUPER E3T	Articulated dumpers	Standard		**7350**	**8400**	**8950**	**9500**	**10600**						**750/65 R 25**
					16207	18522	19735	20948	23373						

		APPLICATION		bar	2	2.5	3	3.25	3.5	4	4.5	5	5.5		
				psi	*29*	*36*	*44*	*47*	*51*	*58*	*65*	*73*	*80*		
XLD 65 L3 * L3T	L3T	Loaders	Front laden		**8400**	**9720**	**11040**	**11700**	**12360**	**13680**	**15000**	**16320**	**17640**		**750/65 R 25**
					18522	21433	24343	25799	27254	30164	33075	35986	38896		
			Rear unladen		**6725**	**7775**	**8825**	**9365**	**9900**	**10950**	**12000**	**13050**	**14100**		
					14829	17144	19459	20650	21830	24145	26460	28775	31091		
XLD 65 L3 * L3T	L3T	Graders	Front and Rear		**5040**	**5830**	**6620**	**7020**	**7420**	**8210**					
					11113	12855	14597	15479	16361	18103					

		APPLICATION		bar	2.75	3	3.25	3.5	3.75	4					
				psi	*40*	*44*	*47*	*51*	*54*	*58*					
XAD 65 ** SUPER E3T	SUPER E3T	Articulated dumpers	Standard		**9500**	**10450**	**11175**	**11900**	**12500**	**13250**					**850/65 R 25**
					20948	23042	24641	26240	27563	29216					

26"

		APPLICATION		bar	1.6	2	2.4	2.8	3.2	3.6					
				psi	*23*	*29*	*35*	*41*	*46*	*52*					
XMCL		Backhoe loaders	Static		**4900**	**5990**	**7080**	**8170**	**9260**	**10350**					**480/80 R 26**
					10805	13208	15611	18015	20418	22822					
			Cyclic		**3200**	**3910**	**4620**	**5330**	**6040**	**6750**					
					7056	8622	10187	11753	13318						
			30 km/h		**2790**	**3300**	**3800**	**4310**	**4820**						
			19mph		6152	7277	8379	9504	10628						
			40 km/h		**2575**	**3055**	**3540**	**4020**	**4500**						
			25mph		5678	6736	7806	8864	9923						

28"

		APPLICATION		bar	1.6	2	2.4	2.8	3.2	3.6					
				psi	*23*	*29*	*35*	*41*	*46*	*52*					
XMCL		Backhoe loaders	Static		**4360**	**5330**	**6290**	**7260**	**8230**	**9200**					**440/80 R 28**
					9614	11753	13869	16008	18147	20286					
			Cyclic		**2840**	**3470**	**4110**	**4740**	**5370**	**6000**					
					6262	7651	9063	10452	11841	13230					
			30 km/h		**2480**	**2930**	**3380**	**3830**	**4280**						
			19mph		5468	6461	7453	8445	9437						
			40 km/h		**2300**	**2725**	**3150**	**3575**	**4000**						
			25mph		5072	6009	6946	7883	8820						

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **TREAD DESIGN** CAI (Part Number)	Max. dist. / hour **km** *Miles*	TKPH *TMPH* (1)	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (2) Michelin® dimensions						**Measuring Rim** Approved Rims (3) - (4)	Tubeless O-Ring CAI (4)	Tube Type Ref. Flap (4)
			e	D	E	e	D	R'	RC	Tread depth	Cap.			
			mm *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *32nd*	**l** *gallon*			
28"														
19.5 L R 28 Tubeless														
XM27 152A8 123800			**535** *21.1*	**1465** *57.7*		**533** *21*	**1425** *56.1*	**645** *25.4*	**4240** *166.9*	**40** *50.4*	**395** *104*	W15L DW15L W16L **DW16L**	-	KLEBER 822 -
29"														
26.5 R 29 Tubeless														
XK A L3 ** 273860	**14** *8.7*					**714** *28.1*	**1838** *72.4*	**801** *31.5*	**5478** *215.7*	**35** *44.1*	**855** *226*			
XSM DN L3S * 123661	**14** *8.7*		**747** *29.4*	**1940** *76.4*		**726** *28.6*	**1830** *72*	**806** *31.7*	**5464** *215.1*	**40** *50.4*	**937** *248*	**22.00/3.0** 24.00/3.0	- OR 3-29 553202	29 WAM 19-29
XSM D1 L3S 123421 (8)	**10** *6.2*					**678** *26.7*	**1890** *74.4*	**847** *33.3*	**5691** *224.1*	**53** *66.8*				
29.5 R 29 Tubeless														
XTS E3T ** 708648	**29** *18*	**348** *238*	**833** *32.8*	**2126** *83.7*		**765** *30.1*	**1963** *77.3*	**869** *34.2*	**5884** *231.7*	**43** *54.2*	**1300** *343*	24.00/3.5 **25.00/3.5**	- OR 3-29 553202	29 YEAM 19-29
XK A L3 ** 274110	**14** *8.7*			**2074** *81.7*		**793** *31.2*	**1958** *77.1*	**844** *33.2*	**5812** *228.8*	**38** *47.9*	**1260** *333*			
XHA L3 * 123268 (8)	**16** *9.9*					**752** *29.6*	**1954** *76.9*	**839** *33*	**5795** *228.1*	**40** *50.4*	**1245** *329*			
XLD D2 A L5T * 123279	**10** *6.2*		**833** *32.8*			**772** *30.4*	**2004** *78.9*	**864** *34*	**5949** *234.2*	**95** *119.7*	**985** *260*	24.00/3.5 **25.00/3.5**	- OR 3-29 553202	29 YEAM 19-29
X MINE D2 L5R 274050	**6** *3.7*			**2126** *83.7*		**795** *31.3*	**2002** *78.8*	**879** *34.6*	**5983** *235.6*	**100** *126*	**990** *262*			
XSM D2+ L5S 123697	**6** *3.7*					**770** *30.3*	**1993** *78.5*	**842** *33.1*	**5872** *231.2*	**112** *141.1*	**1116** *295*			

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread Design	Identification code (9)	Explanations on how to choose the tire and to determine the inflation pressures Refer to explanations and methods allowing to determine the inflation pressures (10)	Size

28"

		APPLICATION	bar	1	1.6	1.9	2.7	3	3.2	3.5	3.8			Size
			psi	*15*	*23*	*28*	*39*	*44*	*46*	*51*	*55*			
XM27		Backhoe loaders	**10 km/h**	**2620**	**3280**	**3560**	**4300**	**4580**	**4770**	**5050**	**5330**			**19.5 L R 28**
			6mph	5777	7232	7850	9482	10099	10518	11135	11753			
			30 km/h	**2050**	**2610**	**2830**	**3430**	**3650**	**3800**					
			19mph	4520	5755	6240	7563	8048	8379					
			40 km/h	**1920**	**2440**	**2650**	**3200**	**3410**	**3550**					
			25mph	4234	5380	5843	7056	7519	7828					

29"

		APPLICATION	bar	2	2.5	3	3.5	4	4.25	4.5	5	5.5		Size
			psi	*29*	*36*	*44*	*51*	*58*	*62*	*65*	*73*	*80*		
XK A ** L3 XSM DN * L3S XSM D1 L3S	L3 L3S L3S	Loaders	Front laden	**10750**	**12200**	**13650**	**15150**	**16600**	**17325**	**18050**	**19500**	**20900**		**26.5 R 29**
				23704	26901	30098	33406	36603	38202	39800	42998	46085		
			Rear unladen	**8600**	**9750**	**10925**	**12125**	**13275**	**13850**	**14450**	**15600**	**16725**		
				18963	21499	24090	26736	29271	30539	31862	34398	36879		
XK A ** L3 XSM DN * L3S XSM D1 L3S	L3 L3S L3S	Graders	Front and Rear	**9700**	**11000**	**12300**	**13650**	**14950**	**15600**	**16250**	**17550**	**18800**		
				21389	24255	27122	30098	32965	34398	35831	38698	41454		
XTS ** E3T	E3T	Scrapers	Standard	**9150**	**10325**	**11500**	**12650**	**13850**	**14425**	**15000**	**16150**	**16750**		
				20176	22767	25358	27893	30539	31807	33075	35611	36934		
XK A ** L3 XHA * L3 XLD D2 A * L5T X MINE D2 L5R XSM D2+ L5S	L3 L3 L5T L5R L5S	Loaders	Front laden	**13100**	**14700**	**16300**	**17900**	**19500**	**20525**	**21550**	**23600**	**25200**		**29.5 R 29**
				28886	32414	35942	39470	42998	45258	47518	52038	55566		
			Rear unladen	**10475**	**11750**	**13050**	**14325**	**15600**	**16425**	**17250**	**18875**	**20150**		
				23097	25909	28775	31587	34398	36217	38036	41619	44431		
XK A ** L3 XLD D2 A * L5T X MINE D2 L5R XSM D2+ L5S	L3 L5T L5R L5S	Underground machines (see page 39-41)	Front and Rear	**11800**	**13250**	**14650**	**16100**	**17550**	**18450**	**19400**	**21250**	**22700**		
				26019	29216	32303	35501	38698	40682	42777	46856	50054		
XLD D2 A * L5T	L5T	Graders	Front and Rear	**7850**	**8800**	**9800**								
				17309	19404	21609								

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **TREAD DESIGN** CAI (Part Number)	Max. dist. / hour **km** *Miles*	TKPH *TMPH* (1)	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (2) Michelin® dimensions						**Measuring Rim** Approved Rims (3) - (4)	Tubeless O-Ring CAI (4)	Tube Type Ref. Flap (4)
			e	D	E	e	D	R'	RC	Tread depth	Cap.			
			mm *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *32nd*	**l** *gallon*			
29"														
775/65 R 29 Tubeless														
XAD 65 SUPER E3T ** 195B 510085	**28** *17.4*		**809** *31.9*	**1775** *69.9*		**785** *30.9*	**1759** *69.3*	**779** *30.7*	**5272** *207.6*	**45** *56.7*	**1050** *277*	**24.00/3.0** 24.00/3.5 25.00/3.5	- OR 3-29 553202	- -
XLD 65 SUPER L3 SUPER L3T 206A2 816527 (7)	**16** *9.9*		**809** *31.9*	**1824** *71.8*		**772** *30.4*	**1751** *68.9*	**751** *29.6*	**5187** *204.2*	**54** *68*	**962** *254*	24.00/3.0 **24.00/3.5** 25.00/3.5	- OR 3-29 553202	- -
800/65 R 29 Tubeless														
XLD 65 L3 L3T * 123059	**16** *9.9*		**838** *33*	**1808** *71.2*		**793** *31.2*	**1818** *71.6*	**790** *31.1*	**5412** *213.1*	**48.5** *61.1*	**1093** *289*	24.00/3.5 **27.00/3.0**	- OR 3-29 553202	- -
33.25 R 29 Tubeless														
XTS E3T ** 871916	**29** *18*	**429** *294*	**938** *36.9*	**2198** *86.5*		**873** *34.4*	**2068** *81.4*	**923** *36.3*	**6218** *244.8*	**45** *56.7*	**1640** *433*	**27.00/3.5**	- OR 3-29 553202	29 YEAM 19-29
875/65 R 29 Tubeless														
XAD 65 SUPER E3T ** 203B 086953	**28** *17.4*		**923** *36.3*	**1909** *75.2*		**883** *34.8*	**1881** *74.1*	**827** *32.6*	**5623** *221.4*	**51** *64.3*	**1376** *364*	**27.00/3.0** 27.00/3.5 28.00/3.5	- OR 3-29 553202	- -
33"														
18.00 R 33 Tubeless														
XR B E3 ** 271220	**35** *21.7*	**305** *209*	**553** *21.8*	**1896** *74.6*	**598** *23.5*	**490** *19.3*	**1816** *71.5*	**821** *32.3*	**5486** *216*	**28** *35.3*	**580** *153*	**13.00/2.5**	- OR 3-33 553203	33 VFAM 16-33
XKD1 A E4 ** 271305	**18** *11.2*	**157** *108*		**1960** *77.2*		**497** *19.6*	**1862** *73.3*	**858** *33.8*	**5666** *223.1*	**47** *59.2*	**600** *159*			
X-HAUL E4P ** 205207	**30** *18.6*	**262** *179*				**495** *19.5*	**1860** *73.2*	**856** *33.7*	**5657** *222.7*	**49** *61.7*	**605** *160*			
XDT B E4T ** 123733	**30** *18.6*					**494** *19.4*	**1868** *73.5*	**885** *34.8*	**5745** *226.2*	**54** *68*				
XDT A E4T ** 123713 (8)	**22** *13.7*	**192** *132*												
XDT A4 E4T ** 123723	**18** *11.2*	**157** *108*												
X-QUARRY E4R ** 123567 (8)	**14** *8.7*	**122** *84*				**505** *19.9*	**1873** *73.7*	**852** *33.5*	**5670** *223.2*	**62** *78.1*	**600** *159*			
X-QUARRY S E4R ** 873291	**19** *11.8*	**166** *114*				**511** *20.1*	**1864** *73.4*							

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread Design	Identification code (9)	Explanations on how to choose the tire and to determine the inflation pressures Refer to explanations and methods allowing to determine the inflation pressures (10)	Size

29"

		APPLICATION	bar / psi	2 / 29	2.5 / 36	3 / 44	3.5 / 51	4 / 58	4.25 / 62	4.5 / 65	5 / 73	5.5 / 80		Size
XAD 65 ** SUPER E3T	SUPER E3T	Articulated dumpers	Standard	**6900**	**8100**	**9350**	**10700**	**12150**						**775/65 R 29**
				15215	17861	20617	23594	26791						
XLD 65 SUPER L3 SUPER L3T	SUPER L3T	Loaders	Front laden	**9500**	**11000**	**12500**	**14000**	**15500**	**16250**	**17000**	**18500**			
				20948	24255	27563	30870	34178	35831	37485	40793			
			Rear unladen	**7600**	**8800**	**10000**	**11200**	**12400**	**13000**	**13600**	**14800**			
				16758	19404	22050	24696	27342	28665	29988	32634			
XLD 65 L3 * L3T	L3T	Loaders	Front laden	**10100**	**11800**	**13500**	**15200**	**16900**	**17500**	**18600**	**20300**	**22000**		**800/65 R 29**
				22271	26019	29768	33516	37265	38588	41013	44762	48510		
			Rear unladen	**8100**	**9450**	**10800**	**12150**	**13500**	**14000**	**14900**	**16250**	**17600**		
				17861	20837	23814	26791	29768	30870	32855	35831	38808		

		APPLICATION	bar / psi	2 / 29	2.5 / 36	3 / 44	3.5 / 51	4 / 58	4.25 / 62	4.5 / 65	5 / 73	5.5 / 80	6 / 87	Size
XTS ** E3T	E3T	Scrapers	Standard	**9500**	**11000**	**12500**	**14000**	**15500**	**16300**	**17000**	**18500**	**19250**	**20000**	**33.25 R 29**
				20948	24255	27563	30870	34178	35942	37485	40793	42446	44100	
XAD 65 ** SUPER E3T	SUPER E3T	Articulated dumpers	Standard	**9100**	**10800**	**12500**	**14100**	**15500**						**875/65 R 29**
				20066	23814	27563	31091	34178						

33"

		APPLICATION	bar / psi	2 / 29	3 / 44	4 / 58	4.5 / 65	5 / 73	5.5 / 80	6 / 87	6.5 / 94	7 / 102	7.5 / 109	Size
XR B ** E3 XKD1 A ** E4 X-HAUL ** E4P XDT B ** E4T XDT A ** E4T XDT A4 ** E4T X-QUARRY S ** E4R	E3 E4 E4P E4T E4T E4T E4R	Transport	Standard			**7950**	**8700**	**9400**	**10150**	**10900**	**11270**	**11650**	**12000**	**18.00 R 33**
						17530	19184	20727	22381	24035	24850	25688	26460	
X-QUARRY ** E4R	E4R	Quarry transport (See page 11)	**30 km/h**	**5600**	**7700**	**9350**	**10150**	**10900**	**11650**	**12400**				
			19mph	12348	16979	20617	22381	24035	25688	27342				

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **TREAD DESIGN** CAI (Part Number)	Max. dist. / hour **km** *Miles*	TKPH *TMPH* (1)	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (2) Michelin® dimensions						**Measuring Rim** Approved Rims (3) - (4)	Tubeless O-Ring CAI (4)	Tube Type Ref. Flap (4)
			e	D	E	e	D	R'	RC	Tread depth	Cap.			
			mm *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *32nd*	**l** *gallon*			
33"														
21.00 R 33 Tubeless														
X-HAUL S E4P ** 612785	**25** *15.5*	**280** *192*	**629** *24.8*	**2042** *80.4*	**685** *27*	**550** *21.7*	**1966** *77.4*			**53** *66.8*	**820** *217*	**15.00/3.0**	- OR 3-33 553203	33 VFAM 16-33
33.5 R 33 Tubeless														
XAD 65 SUPER E3T ** 203B 086953	**28** *17.4*		**923** *36.3*	**1909** *75.2*		**883** *34.8*	**1881** *74.1*	**827** *32.6*	**5623** *221.4*	**51** *64.3*	**1376** *364*	**27.00/3.0** 27.00/3.5 28.00/3.5	- OR 3-29 553202	- -
35/65 R 33 Tubeless														
XR DN A L3 * 283500	**16** *9.9*		**987** *38.9*	**2124** *83.6*		**911** *35.9*	**2010** *79.1*	**894** *35.2*	**6036** *237.6*	**38** *47.9*	**1555** *411*	**28.00/3.5**	- OR 3-33 553203	- -
XSM DN L3S 123052	**14** *8.7*			**2176** *85.7*		**918** *36.1*	**2012** *79.2*	**887** *34.9*	**6022** *237.1*	**44** *55.4*	**1544** *408*			
XLD D1 A L4R * 123084	**14** *8.7*					**914** *36*	**2056** *80.9*	**883** *34.8*	**6095** *240*	**60** *75.6*	**1550** *410*			
X MINE D2 L5R * 123494	**6** *3.7*					**921** *36.3*	**2050** *80.7*	**904** *35.6*	**6136** *241.6*	**93** *117.2*	**1350** *357*			
XLD D2 A L5T * 123343	**10** *6.2*					**914** *36*	**2058** *81*	**886** *34.9*	**6106** *240.4*	**97** *122.2*	**1450** *383*			
XSM D2+ L5S 123529	**6** *3.7*					**921** *36.3*	**2050** *80.7*	**905** *35.6*	**6139** *241.7*		**1350** *357*			
35/65 R 33 Tubeless														
XLD D1A ** L4R 143231 (11)	**14** *8.7*		**987** *38.9*	**2176** *85.7*		**914** *36*	**2056** *80.9*	**883** *34.8*	**6095** *240*	**60** *75.6*	**1550** *410*	**28.00/3.5**	- OR 3-33 553203	- -

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread Design	Identification code (9)	Explanations on how to choose the tire and to determine the inflation pressures Refer to explanations and methods allowing to determine the inflation pressures (10)	Size

33"

		APPLICATION	bar / psi	2 / 29	3 / 44	4 / 58	4.5 / 65	5 / 73	5.5 / 80	6 / 87	6.5 / 94	7 / 102	7.5 / 109	Size
X-HAUL S ** E4P	E4P	Transport	Standard			**9315**	**10250**	**11185**	**12125**	**13065**	**14000**	**14470**		**21.00 R 33**
						20540	22601	24663	26736	28808	30870	31906		
XR B ** E3	E3	Transport	Standard			**17000**	**18500**	**20000**	**20750**	**21500**				**33.5 R 33**
						37485	40793	44100	45754	47408				

		APPLICATION	bar / psi	2 / 29	2.5 / 36	3 / 44	3.5 / 51	4 / 58	4.25 / 62	4.5 / 65	5 / 73	5.5 / 80	6 / 87	Size
XR DN A * L3 XSM DN L3S XLD D1 A * L4R X MINE D2 * L5R XLD D2 A * L5T XSM D2+ L5S	L3 L3S L4R L5R L5T L5S	Loaders	Front laden	**12750**	**15050**	**17300**	**19600**	**21850**	**23000**	**23900**	**26150**	**28200**	**30300**	**35/65 R 33**
				28114	33185	38147	43218	48179	50715	52700	57661	62181	66812	
			Rear unladen	**10200**	**12050**	**13850**	**15675**	**17475**	**18400**	**19125**	**20925**	**22550**	**24250**	
				22491	26570	30539	34563	38532	40572	42171	46140	49723	53471	
XSM DN L3S XLD D1 A * L4R X MINE D2 * L5R XLD D2 A * L5T XSM D2+ L5S	L3S L4R L5R L5T L5	Underground machines (see page 39-41)	Front and Rear	**11500**	**13550**	**15550**	**17650**	**19650**	**20700**	**21500**	**23550**	**25400**	**27250**	
				25358	29878	34288	38918	43328	45644	47408	51928	56007	60086	

		APPLICATION	bar / psi	3 / 44	3.5 / 51	4 / 58	4.5 / 65	5 / 73	5.5 / 80	6 / 87	6.5 / 94	7 / 102	7.5 / 109	Size
XLD D1A ** L4R	L4R	Loaders	Front laden	**16,090**	**17,720**	**19,000**	**21,200**	**23,000**	**24,300**	**25,750**	**28,000**	**28,800**	**29,600**	**35/65 R 33**
				35,478	39,073	41,895	46,746	50,715	53,582	56,779	61,740	63,504	65,268	
			Rear unladen	**12,870**	**14,176**	**15,200**	**16,960**	**18,400**	**19,440**	**20,600**	**22,400**	**23,040**	**23,680**	
				28,378	31,258	33,516	37,397	40,572	42,865	45,423	49,392	50,803	52,214	

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **TREAD DESIGN** CAI (Part Number)	Max. dist. / hour **km** *Miles*	TKPH *TMPH* (1)	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (2) Michelin® dimensions						**Measuring Rim** Approved Rims (3) - (4)	Tubeless O-Ring CAI (4)	Tube Type Ref. Flap (4)
			e	D	E	e	D	R'	RC	Tread depth	Cap.			
			mm *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *32nd*	l *gallon*			
35"														
21.00 R 35 Tubeless														
XDT B E4T ** 123881	**30** *18.6*	**348** *238*	**634** *25*	**2145** *84.4*	**685** *27*	**576** *22.7*	**2062** *81.2*	**937** *36.9*	**6242** *245.7*	**61** *76.9*	**900** *238*	**15.00/3.0** 17.00/3.0	- OR 3-35 553204	- -
XDT A4 E4T ** 123921	**18** *11.2*	**209** *143*												
X-QUARRY E4R ** 606710 (7)	**14** *8.7*	**122** *84*				**582** *22.9*	**2066** *81.3*	**933** *36.7*	**6329** *249.2*	**68** *85.7*	**880** *232*			
24.00 R 35 Tubeless														
X-HAUL E4P ** 087693	**24** *14.9*	**355** *243*	**725** *28.5*	**2278** *89.7*	**784** *30.9*	**645** *25.4*	**2155** *84.8*	**995** *39.2*	**6562** *258.3*	**60** *75.6*	**1150** *304*	15.00/3.5 **17.00/3.5**	- OR 3-35 553204	33/35 YEAM 16-35
XDT C4 E4T ** 123865	**35** *21.7*	**518** *355*				**652** *25.7*	**2162** *85.1*	**1001** *39.4*	**6591** *259.5*	**68** *85.7*				
XDT B E4T ** 123931	**30** *18.6*	**444** *304*												
XDT A E4T ** 123941	**22** *13.7*	**326** *223*												
XDT A4 E4T ** 123951	**18** *11.2*	**266** *182*												
X-TRACTION E4T ** 318056	**25** *15.5*	**370** *253*				**676** *26.6*	**2187** *86.1*	**983** *39*	**6592** *260*	**77** *97*	**1223** *323*			
X-QUARRY E4R ** 123887 (8)	**14** *8.7*	**207** *142*				**660** *26*	**2156** *84.9*	**965** *38*	**6489** *255.5*	**70** *88.2*	**1157** *306*			
X-QUARRY S E4R ** 412539	**19** *11.8*	**281** *192*				**659** *25.9*		**976** *38.4*	**6517** *256.6*					
29.5 R 35 Tubeless														
XTS E3T ** 631225	**29** *18*	**371** *254*	**833** *32.8*	**2226** *87.6*		**777** *30.6*	**2116** *83.3*	**943** *37.1*	**6539** *257.4*	**45** *56.7*	**1494** *395*	**25.00/3.5** 27.00/3.5	- OR 3-35 553204	33/35 YEAM 20-35

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread Design	Identification code (9)	Explanations on how to choose the tire and to determine the inflation pressures Refer to explanations and methods allowing to determine the inflation pressures (10)	Size

35"

		APPLICATION	bar / psi										Size
			bar	4	4.5	5	5.5	6	6.5	7			
			psi	*58*	*65*	*73*	*80*	*87*	*94*	*102*			
XDT B ** E4T XDT A4 ** E4T	E4T E4T	Transport	Standard		**11450**	**12450**	**13500**	**14500**	**15000**	**15500**			**21.00 R 35**
					25247	27452	29768	31973	33075	34178			
X-QUARRY ** E4R	E4R	Quarry transport (See page 11)	30 km/h	**12450**	**13500**	**14500**	**15000**						
			19mph	27452	29768	31973	33075						

		APPLICATION	bar / psi										Size
			bar	3	4	4.5	5	5.5	6	6.5	7	7.5	8
			psi	*44*	*58*	*65*	*73*	*80*	*87*	*94*	*102*	*109*	*116*
X-HAUL ** E4P XDT C4 ** E4T XDT B ** E4T XDT A ** E4T XDT A4 ** E4T X-TRACTION ** E4T X-QUARRY S ** E4R	E4P E4T E4T E4T E4T E4T E4R	Transport	Standard			**13950**	**15050**	**16300**	**17350**	**18500**	**19050**	**19625**	**20200**	**24.00 R 35**
						30760	33185	35942	38257	40793	42005	43273	44541	
X-QUARRY ** E4R	E4R	Quarry transport (See page 11)	**30 km/h**	**12000**	**14500**	**16000**	**17250**	**18500**	**20000**					
			19mph	26460	31973	35280	38036	40793	44100					

		APPLICATION	bar / psi										Size
			bar	3.5	3.75	4	4.25	4.5	5	5.5			
			psi	*51*	*54*	*58*	*62*	*65*	*73*	*80*			
XTS ** E3T	E3T	Scrapers	Standard	**13200**	**13900**	**14600**	**15300**	**16000**	**17400**	**18100**			**29.5 R 35**
				29106	30650	32193	33737	35280	38367	39911			

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **TREAD DESIGN** CAI (Part Number)	Max. dist. / hour **km** *Miles*	TKPH *TMPH* (1)	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (2) Michelin® dimensions						**Measuring Rim** Approved Rims (3) - (4)	Tubeless O-Ring CAI (4)	Tube Type Ref. Flap (4)
			e	D	E	e	D	R'	RC	Tread depth	Cap.			
			mm *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *32nd*	l *gallon*			
35"														
37.25 R 35 Tubeless														
XTS E3T ** 540244	**29** *18*	**540** *370*	**1050** *41.3*	**2509** *98.8*		**956** *37.6*	**2370** *93.3*	**1067** *42*	**7149** *281.5*	**47** *59.2*	**2400** *634*	29.00/3.5 **31.00/4.0**	- OR 3-35 553204	33/35 YEAM 20-35
XRS B E4R ** 123673	**22** *13.7*	**415** *284*		**2572** *101.3*		**947** *37.3*	**2364** *93.1*	**1063** *41.9*	**7127** *280.6*	**53** *66.8*	**2250** *594*			
39"														
37.5 R 39 Tubeless														
XRS B E4R ** 856011	**22** *13.7*	**453** *310*	**1057** *41.6*	**2665** *104.9*		**976** *38.4*	**2517** *99.1*	**1130** *44.5*	**7583** *298.5*	**56** *70.6*	**2624** *693*	**32.00/4.5**	- OR 3-39 553206	- -
40.5/75 R 39 Tubeless														
XMS B E3R ** 379296	**33** *20.5*	**766** *525*	**1142** *45*	**2758** *108.6*		**998** *39.3*	**2588** *101.9*	**1151** *45.3*	**7770** *305.9*	**51** *64.3*	**2940** *777*	**32.00/4.5**	- OR 3-39 553206	- -
XMS A E3R ** 224334	**20** *12.4*	**500** *342*												
45/65 R 39 Tubeless														
XLD D2 A L5T * 123681	**10** *6.2*		**1269** *50*	**2707** *106.6*		**1102** *43.4*	**2577** *101.5*	**1086** *42.8*	**7586** *298.7*	**115** *144.9*	**2760** *729*	32.00/4.5 **36.00/4.5**	- OR 3-39 553206	- -
X MINE D2 L5R * 123305	**6** *3.7*					**1099** *43.3*	**2580** *101.6*	**1110** *43.7*	**7653** *301.3*	**116** *146.1*	**2712** *717*			
45"														
45/65 R 45 Tubeless														
XLD D1 A L4R * 123671	**14** *8.7*		**1269** *50*	**2860** *112.6*		**1130** *44.5*	**2700** *106.3*	**1156** *45.5*	**7995** *314.8*	**71** *89.4*	**3330** *880*	**36.00/4.5**	- OR 9.8-45 553214	- -
XLD D2 A L5T * 123641	**10** *6.2*					**1147** *45.2*		**1157** *45.6*	**7997** *314.8*	**115** *144.9*	**3020** *798*			
X MINE D2 L5R * 123315	**6** *3.7*					**1159** *45.6*	**2697** *106.2*	**1163** *45.8*	**8009** *315.3*	**116** *146.1*				
XSM D2+ L5S 123769	**6** *3.7*					**1145** *45.1*	**2737** *107.8*	**1223** *48.1*	**8347** *328.6*	**120** *151.2*	**3250** *859*			

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread Design	Identification code (9)	Explanations on how to choose the tire and to determine the inflation pressures Refer to explanations and methods allowing to determine the inflation pressures (10)	Size

35"

		APPLICATION		bar	3.75	4	4.25	4.5	5	5.5	6	6.5			Size
				psi	*54*	*58*	*62*	*65*	*73*	*80*	*87*	*94*			
XTS ** E3T XRS B ** E4R	E3T E4R	Scrapers	Standard		**17950**	**18500**	**19350**	**20200**	**21900**	**23600**	**24450**	**25300**			**37.25 R 35**
					39580	40793	42667	44541	48290	52038	53912	55787			

39"

		APPLICATION		bar	3	3.5	4	4.25	4.5	5	5.5	6			Size
				psi	*44*	*51*	*58*	*62*	*65*	*73*	*80*	*87*			
XRS B ** E4R	E4R	Transport	Standard		**18100**	**20000**	**21900**	**22900**	**23850**	**25750**	**26700**	**27650**			**37.5 R 39**
					39911	44100	48290	50495	52589	56779	58874	60968			
XMS B ** E3R XMS A ** E3R	E3R E3R	Scrapers	Standard		**20200**	**22400**	**24600**	**25700**	**26800**	**29000**	**30100**	**31200**			**40.5/75 R 39**
					44541	49392	54243	56669	59094	63945	66371	68796			
XLD D2 A * L5T X MINE D2 * L5R	L5T L5R	Loaders	Front laden		**31130**	**35600**	**38530**	**40000**	**42000**	**45500**	**49000**	**52550**			**45/65 R 39**
					68642	78498	84959	88200	92610	100328	108045	115873			
			Rear unladen		**24900**	**28500**	**30800**	**32000**	**33600**	**36400**	**39200**	**42050**			
					54905	62843	67914	70560	74088	80262	86436	92720			

45"

		APPLICATION		bar	3	3.5	4	4.25	4.5	5	5.5	6	6.5		Size
				psi	*44*	*51*	*58*	*62*	*65*	*73*	*80*	*87*	*94*		
XLD D1 A * L4R XLD D2 A * L5T X MINE D2 * L5R XSM D2+ L5S	L4R L5T L5R L5S	Loaders	Front laden		**31000**	**35600**	**40200**	**42500**	**45000**	**49550**	**54200**	**58850**	**63500**		**45/65 R 45**
					68355	78498	88641	93713	99225	109258	119511	129764	140018		
			Rear unladen		**24800**	**28500**	**32150**	**34000**	**36000**	**39650**	**43350**	**47100**	**50800**		
					54684	62843	70891	74970	79380	87428	95587	103856	112014		

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **TREAD DESIGN** CAI (Part Number)	Max. dist. / hour **km** *Miles*	TKPH *TMPH* (1)	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (2) Michelin® dimensions						**Measuring Rim** Approved Rims (3) - (4)	Tubeless O-Ring CAI (4)	Tube Type Ref. Flap (4)
			e	D	E	e	D	R'	RC	Tread depth	Cap.			
			mm *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *32nd*	l *gallon*			
49"														
24.00 R 49 Tubeless														
XR B E3 ** 280400	**35** *21.7*	**610** *418*	**725** *28.5*	**2582** *101.7*	**784** *30.9*	**644** *25.4*	**2480** *97.6*	**1133** *44.6*	**7522** *296.1*	**37** *46.6*	**1500** *396*	**17.00/3.5**	- OR 3-49 553205	- -
XDR B E4R ** 123235	**26** *16.2*	**453** *310*												
XDR B4 E4R ** 123115	**22** *13.7*	**384** *263*				**657** *25.9*	**2509** *98.8*	**1144** *45*	**7603** *299.3*		**1420** *375*			
XDR A E4R ** 123095	**18** *11.2*	**314** *215*		**2634** *103.7*						**68** *85.7*				
XDT B E4T ** 123793	**30** *18.6*	**523** *358*												
XDT A E4T ** 123803	**22** *13.7*	**384** *263*				**645** *25.4*	**2527** *99.5*	**1156** *45.5*	**7667** *301.9*		**1500** *396*			
XDT A4 E4T ** 123823	**18** *11.2*	**314** *215*												
27.00 R 49 Tubeless														
XV C E2 ** 280557	**50** *31.1*	**1090** *747*	**818** *32.2*		**884** *34.8*	**745** *29.3*	**2648** *104.3*	**1170** *46.1*	**7934** *312.4*	**33** *41.6*	**2060** *544*	**19.50/4.0** 22.00/4.0	- OR 3-49 553205	- -
X-TRACTION S B E3T ** 689287	**35** *21.7*	**763** *523*		**2761** *108.7*		**746** *29.4*	**2647** *104.2*	**1191** *46.9*	**7982** *314*	**46** *58*	**2045** *540*			
X-TRACTION S A E3T ** 504986	**27** *16.8*	**589** *403*												
XDT B E4T ** 123783	**30** *18.6*	**654** *448*												
XDT A E4T ** 123763	**22** *13.7*	**480** *329*				**726** *28.6*	**2696** *106.1*	**1221** *48.1*	**8151** *320.9*	**74** *93.2*	**1935** *511*			
XDT A4 E4T ** 123773	**18** *11.2*	**392** *269*												
XDR C4 ?? ** ??????														
XDR B E4R ** 123330	**26** *16.2*	**567** *388*		**2819** *111*										
XDR B4 E4R ** 123210	**22** *13.7*	**480** *329*				**729** *28.7*	**2694** *106.1*	**1223** *48.1*	**8152** *320.9*	**76** *95.7*	**1978** *523*			
XDR A E4R ** 123170	**18** *11.2*	**392** *269*												
X-TRACTION B E4T ** 470320	**30** *18.6*	**654** *448*												
X-TRACTION A4 E4T ** 495676	**18** *11.2*	**392** *269*				**743** *29.3*	**2737** *107.8*	**1235** *49*	**8262** *325*	**81** *102*	**2045** *540*			
X-TRACTION B4 E4T ** 166905	**26** *16*	**567** *388*												

* Not available at this time

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread Design	Identification code (9)	Explanations on how to choose the tire and to determine the inflation pressures Refer to explanations and methods allowing to determine the inflation pressures (10)											Size
49"													
		APPLICATION	**bar**	**3.5**	**4**	**4.5**	**5**	**5.5**	**6**	**6.5**	**7**	**7.5**	**8**	
			psi	*51*	*58*	*65*	*73*	*80*	*87*	*94*	*102*	*109*	*116*	
XR B ** E3 XDT B ** E4T XDR B ** E4R XDR B4 ** E4R XDT A ** E4T XDR A ** E4R XDT A4 ** E4T	E3 E4T E4R E4R E4T E4R E4T	Transport	Standard	**13900**	**15250**	**16550**	**17850**	**19200**	**20500**	**21800**	**22450**	**23100**	**23350**	**24.00 R 49**
				30650	33626	36493	39359	42336	45203	48069	49502	50936	51487	
XVC ** E2 X-TRACTION S B ** E3T X-TRACTION S A ** E3T XDT B ** E4T XDT A ** E4T XDT A4 ** E4T **XDR C** XDR B ** E4R XDR B4 ** E4R XDR A ** E4R X-TRACTION B ** E4T X-TRACTION A4 ** E4T X-TRACTION B ** E4T X-TRACTION A4 ** E4T X-TRACTION B4 ** E4T	E2 E3T E3T E4T E4T E4T E4R E4R E4R E4T E4T E4T E4T E4T	Transport	Standard	**16850**	**18550**	**20300**	**22050**	**24000**	**25500**	**27250**	**28100**	**29000**	**29850**	**27.00 R 49**
				37154	40903	44762	48620	52920	56228	60086	61961	63945	65819	

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **TREAD DESIGN** CAI (Part Number)	Max. dist. / hour **km** *Miles*	TKPH *TMPH* (1)	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (2) Michelin® dimensions						**Measuring Rim** Approved Rims (3) - (4)	Tubeless O-Ring CAI (4)	Tube Type Ref. Flap (4)
			e	D	E	e	D	R'	RC	Tread depth	Cap.			
			mm *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *32nd*	l *gallon*			
51"														
30.00 R 51 Tubeless														
XDR B E4R ** 123151	**24** *14.9*	**643** *440*											-	
XDR B4 E4R ** 123041	**20** *12.4*	**536** *367*	**914** *36*	**3033** *119.4*	**988** *38.9*	**835** *32.9*	**2878** *113.3*	**1291** *50.8*	**8671** *341.4*	**83** *104.6*	**2490** *658*	**22.00/4.5**	OR 4-51 553210	- -
XDR A E4R ** 123450	**16** *9.9*	**429** *294*												
33.00 R 51 Tubeless														
XDC C4 E3V ** 645788	**45** *28*	**1395** *956*												
XDC B E3V ** 020166	**39** *24.2*	**1209** *828*				**889** *35*	**2966** *116.8*	**1332** *52.4*	**8938** *351.9*	**48** *60.5*				
XDC B4 E3V ** 139019	**34** *21.1*	**1054** *722*												
XDT B E4T ** 123961	**30** *18.6*	**930** *637*												
XDT B4 E4T ** 123843	**26** *16.2*	**806** *552*				**911** *35.9*	**3040** *119.7*	**1365** *53.7*	**9159** *360.6*	**87** *109.6*	**3090** *816*		-	
XDT A E4T ** 123971	**22** *13.7*	**682** *467*	**992** *39.1*	**3202** *126.1*	**1073** *42.2*							**24.00/5.0**	OR 4-51 553210	- -
XDT A4 E4T ** 123981	**18** *11.2*	**558** *382*												
XDR C4 E4R ** 839917	**27** *16.8*	**837** *573*												
XDR B E4R ** 123411	**24** *14.9*	**744** *510*				**907** *35.7*	**3032** *119.4*	**1353** *53.3*	**9116** *358.9*	**88** *110.9*	**3000** *793*			
XDR B4 E4R ** 123281	**20** *12.4*	**620** *425*												
XDR A E4R ** 123161	**16** *9.9*	**496** *340*												

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread Design	Identification code (9)	Explanations on how to choose the tire and to determine the inflation pressures Refer to explanations and methods allowing to determine the inflation pressures (10)											Size
51"													
		APPLICATION	**bar**	**3.5**	**4**	**4.5**	**5**	**5.5**	**6**	**6.5**	**7**		
			psi	*51*	*58*	*65*	*73*	*80*	*87*	*94*	*102*		
XDR B ** E4R XDR B4 ** E4R XDR A ** E4R	E4R E4R E4R	Transport	Standard	**22100**	**24350**	**26650**	**28950**	**31200**	**33500**	**34650**	**35800**		**30.00 R 51**
				48731	53692	58763	63835	68796	73868	76403	78939		
XDC C4 ** E3V XDC B ** E3V XDC B4 ** E3V XDT B ** E4T XDT B4 ** E4T XDT A ** E4T XDT A4 ** E4T XDR C4 ** E4R XDR B ** E4R XDR B4 ** E4R XDR A ** E4R	E3V E3V E3V E4T E4T E4T E4T E4R E4R E4R E4R	Transport	Standard	**25550**	**28200**	**30800**	**33450**	**36600**	**38750**	**40100**	**41400**		**33.00 R 51**
				56338	62181	67914	73757	80703	85444	88421	91287		

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **TREAD DESIGN** CAI (Part Number)	Max. dist. / hour **km** *Miles*	TKPH *TMPH* (1)	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (2) Michelin® dimensions						**Measuring Rim** Approved Rims (3) - (4)	Tubeless O-Ring CAI (4)	Tube Type Ref. Flap (4)
			e	D	E	e	D	R'	RC	Tread depth	Cap.			
			mm	**mm**	**mm**	**mm**	**mm**	**mm**	**mm**	**mm**	l			
			inches	*inches*	*inches*	*inches*	*inches*	*inches*	*inches*	*32nd*	*gallon*			
51"														
36.00 R 51 Tubeless														
XDC C4 E3V ** 975610	**40** *24.9*	**1480** *1014*											-	
XDC B E3V ** 320300 (7)	**37** *23*	**1369** *938*				**1008** *39.7*	**3145** *123.8*	**1376** *54.2*	**9387** *369.6*	**57** *71.8*				
XDC B4 E3V ** 448558	**34** *21.1*	**1258** *862*	**1097** *43.2*	**3338** *131.4*	**1186** *46.7*						**3980** *1052*	**26.00/5.0**	OR 4-51 553210	-
XDR B E4R ** 123122	**24** *14.9*	**888** *608*												-
XDR B4 E4R ** 123002	**20** *12.4*	**740** *507*				**1011** *39.8*	**3215** *126.6*	**1430** *56.3*	**9653** *380*	**96** *120.9*				
XDR A E4R ** 123042	**16** *9.9*	**592** *406*												
50/65 R 51 Tubeless														
X MINE D2 HR L5R ** 523260	**6** *3.7*												-	
X MINE D2 SR L5R ** 970863	**6** *3.7*		**1410** *55.5*	**3133** *123.3*	**1524** *60*	**1273** *50.1*	**3073** *121*	**1368** *53.9*	**9228** *363.3*	**116** *146.1*	**4463** *1179*	**40.00/4.5**	OR 4-51 553210	-
57"														
37.00 R 57 Tubeless														
XDR C4 E4R ** 123073	**27** *16.8*	**1145** *784*											-	
XDR B E4R ** 123482	**24** *14.9*	**1018** *697*				**1040** *40.9*	**3456** *136.1*	**1576** *62*	**10645** *419.1*	**98** *123.5*				
XDR B4 E4R ** 123362	**20** *12.4*	**848** *581*												
XDR A E4R ** 123242	**16** *9.9*	**678** *464*	**1118** *44*	**3597** *141.6*	**1219** *48*							**27.00/6.0** 29.00/6.0	OR 4-57 553211	-
XDM B E4T ** 475323	**24** *14.9*	**1018** *697*												
XDM B4 E4T ** 725325	**20** *12.4*	**848** *581*				**1022** *40.2*	**3453** *135.9*	**1678** *66.1*	**10725** *422.2*	**99** *124.7*				
XDM A E4T ** 857733	**16** *9.9*	**678** *464*												

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread Design	Identification code (9)	Explanations on how to choose the tire and to determine the inflation pressures Refer to explanations and methods allowing to determine the inflation pressures (10)	Size

51"

		APPLICATION	bar / psi										Size
			bar	3.5	4	4.5	5	5.5	6	6.5	7	7.5	
			psi	*51*	*58*	*65*	*73*	*80*	*87*	*94*	*102*	*109*	
XDC C4 ** E3V XDC B ** E3V XDC B4 ** E3V XDR B ** E4R XDR B4 ** E4R XDR A ** E4R	E3V E3V E3V E4R E4R E4R	Transport	Standard	**30450**	**33600**	**36800**	**39950**	**43100**	**46250**	**47850**	**49400**	**51000**	**36.00 R 51**
				67142	74088	81144	88090	95036	101981	105509	108927	112455	
		APPLICATION	**bar** / *psi*	**4** / *58*	**4.5** / *65*	**5** / *73*	**5.5** / *80*	**6** / *87*	**6.35** / *92*				
X MINE D2 HR ** L5R X MINE D2 SR ** L5R	L5R L5R	Loaders	Front laden	**46500**	**50500**	**54500**	**58500**	**62500**	**65000**				**50/65 R 51**
				102533	111353	120173	128993	137813	143325				
			Rear unladen	**37200**	**40400**	**43600**	**46800**	**50000**	**52000**				
				82026	89082	96138	103194	110250	114660				

57"

		APPLICATION	bar / psi										Size
			bar	4	4.5	5	5.5	6	6.5	7	7.5		
			psi	*58*	*65*	*73*	*80*	*87*	*94*	*102*	*109*		
XDR C4 ** E4R XDR B ** E4R XDR B4 ** E4R XDR A ** E4R XDM B ** E4T XDM B4 ** E4T XDM A ** E4T	E4R E4R E4R E4R E4T E4T E4T	Transport	Standard	**38550**	**42200**	**45800**	**49400**	**53000**	**54850**	**56650**	**58450**		**37.00 R 57**
				85003	93051	100989	108927	116865	120944	124913	128882		

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **TREAD DESIGN** CAI (Part Number)	Max. dist. / hour **km** *Miles*	TKPH *TMPH* (1)	Standardized dimensions maximum in service e **mm** *inches*	 D **mm** *inches*	 E **mm** *inches*	DIMENSIONAL CHARACTERISTICS (2) Michelin® dimensions e **mm** *inches*	 D **mm** *inches*	 R' **mm** *inches*	 RC **mm** *inches*	 Tread depth **mm** *32nd*	 Cap. **l** *gallon*	**Measuring Rim** Approved Rims (3) - (4)	Tubeless O-Ring CAI (4)	Tube Type Ref. Flap (4)
57"														
40.00 R 57 Tubeless														
XDM C E3V ** 150406	**33** *20.5*	**1584** *1085*												
XDM C4 E3V ** 816612	**30** *18.6*	**1440** *986*				**1106** *43.5*	**3497** *137.7*	**1537** *60.5*	**10452** *411.5*	**64** *80.6*				
XDM B E3V ** 542825	**26** *16.2*	**1248** *855*												
XDM B4 E3V ** 601458	**22** *13.7*	**1056** *723*			**1316** *51.8*						**5628** *1487*		-	
XDR C E4R ** 765274	**30** *18.6*	**1440** *986*	**1218** *48*	**3766** *148.3*								**29.00/6.0** 32.00/5.0 32.00/6.0	OR 4-57 553211	-
XDR C4 E4R ** 123443	**27** *16.8*	**1296** *888*				**1121** *44.1*	**3570** *140.6*	**1569** *61.8*	**10673** *420.2*	**97** *122.2*				-
XDR B E4R ** 123323	**24** *14.9*	**1152** *789*												
XDR B4 E4R ** 123193	**20** *12.4*	**960** *658*												
XDR A E4R ** 123173	**16** *9.9*	**768** *526*			**1316** *51.8*						**5630** *1487*			
50/80 R 57 Tubeless														
XKD1 B E4R ** 123609	**24** *14.9*	**1382** *947*	**1342** *52.8*	**3619** *142.5*	**1562** *61.5*	**1266** *49.8*	**3600** *141.7*	**1563** *61.5*	**10714** *421.8*	**83** *104.6*		**34.00/5.0**	-	-
XKD1 B4 E4R ** 123599	**20** *12.4*	**1152** *789*											OR 4-57 553211	-
50/80 R 57 Tubeless														
XDR C4 E4R ** 929814 (7)	**26** *16.2*	**1518** *1040*	**1342** *52.8*	**3619** *142.5*	**1562** *61.5*	**1281** *50.4*	**3624** *142.7*	**1562** *61.5*	**10758** *423.5*	**94** *118.4*	**6589** *1741*	**34.00/6.0**	-	
XDR B E4R ** 966177 (7)	**22** *13.7*	**1285** *880*											OR 4-57 553211	-
XDR B4 E4R ** 310787 (7)	**20** *12.4*	**1168** *800*												-
50/80 R 57 Tubeless														
XDR C4 E4R ** 929814 (7)	**26** *16.2*	**1518** *1040*											-	
XDR B E4R ** 966177 (7)	**22** *13.7*	**1285** *880*	**1342** *52.8*	**3619** *142.5*	**1562** *61.5*	**1281** *50.4*	**3624** *142.7*	**1562** *61.5*	**10758** *423.5*	**94** *118.4*	**6589** *1741*	**32.00/6.0**	OR 4-57 553211	-
XDR B4 E4R ** 310787 (7)	**20** *12.4*	**1168** *800*												-

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread Design	Identification code (9)	Explanations on how to choose the tire and to determine the inflation pressures Refer to explanations and methods allowing to determine the inflation pressures (10)											Size
57"													
		APPLICATION	**bar**	**4**	**4.5**	**5**	**5.5**	**6**	**6.5**	**7**	**7.5**		
			psi	*58*	*65*	*73*	*80*	*87*	*94*	*102*	*109*		
XDM C ** E3V XDM C4 ** E3V XDM B ** E3V XDM B4 ** E3V XDR C ** E4R XDR C4 ** E4R XDR B ** E4R XDR B4 ** E4R XDR A ** E4R	E3V E3V E3V E3V E4R E4R E4R E4R E4R	Transport	Standard	**43650**	**47750**	**51850**	**55950**	**60000**	**62050**	**64100**	**66150**		**40.00 R 57**
				96248	105289	114329	123370	132300	136820	141341	145861		
XKD1 B ** E4R XKD1 B4 ** E4R	E4R E4R	Transport	Standard	**52380**	**57290**	**62190**	**67100**	**72000**	**74650**	**77290**			**50/80 R 57**
				115498	126324	137129	147956	158760	164603	170424			
		APPLICATION	**bar**	**5**	**5.5**	**6**	**6.5**	**7**					
			psi	*73*	*80*	*87*	*94*	*102*					
XDR C4 ** E4R XDR B4 ** E4R XDR B ** E4R XDR	E4R E4R E4R	Transport	Standard	**63000**	**68000**	**73000**	**75500**	**78000**					**50/80 R 57**
				138915	149940	160965	166478	171990					
XDR C4 ** E4R XDR B4 ** E4R XDR B ** E4R	E4R E4R E4R	Transport	Standard	**54350**	**58670**	**62980**	**65130**	**67290**					**50/80 R 57**
				119842	129367	138871	143612	148374					

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **TREAD DESIGN** CAI (Part Number)	Max. dist. / hour **km** *Miles*	TKPH *TMPH* (1)	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (2) Michelin® dimensions						**Measuring Rim** Approved Rims (3) - (4)	Tubeless O-Ring CAI (4)	Tube Type Ref. Flap (4)
			e	D	E	e	D	R'	RC	Tread depth	Cap.			
			mm *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *32nd*	**l** *gallon*			
57"														
50/90 R 57 Tubeless														
XDR C4 E4R ** 388084	**28** *17.4*	**1747** *1197*											-	
XDR B E4R ** 894079	**24** *14.9*	**1498** *1026*	**1397** *55*	**3609** *142.1*	**1575** *62*	**1260** *49.6*	**3840** *151.2*	**1696** *66.8*	**11501** *452.8*	**107** *134.8*	**7920** *2092*	**32.00/6.5**	OR 4-57 553211	-
XDR B4 E4R ** 289603	**20** *12.4*	**1248** *855*												-
XDR A E4R ** 976879	**16** *9.9*	**998** *684*												
55/80 R 57 Tubeless														
X MINE D2 HR L5R * 817367	**6** *3.7*												-	
X MINE D2 LC L5R * 594400	**6** *3.7*		**1537** *60.5*	**3784** *149*		**1430** *56.3*	**3740** *147.2*	**1633** *64.3*	**11154** *439.1*	**119** *149.9*	**7967** *2105*	42.00/5.0 **44.00/5.0**	OR 4-57 553211	-
X MINE D2 SR L5R * 635563	**6** *3.7*													-
60/80 R 57 Tubeless														
X MINE D2 HR L5R * 817367	**6** *3.7*												-	
X MINE D2 LC L5R * 594400	**6** *3.7*					**1520** *59.9*	**3949** *155.5*	**1714** *63.1*	**11750** *463*	**118** *149*	**10002** *2646*	**47.00/5.0**	OR 4-57 553211	-
X MINE D2 SR L5R * 635563	**6** *3.7*													-
63"														
53/80 R 63 Tubeless														
XKD1 C4 E4R ** 123579	**28** *17.4*	**1837** *1258*											-	
XKD1 B E4R ** 123569	**24** *14.9*	**1574** *1078*				**1330** *52.4*	**3750** *147.6*	**1630** *64.2*	**11168** *439.7*	**88** *110.9*				
XKD1 B4 E4R ** 123559	**20** *12.4*	**1312** *899*												
XKD1 A E4R ** 123539	**16** *9.9*	**1050** *719*	**1481** *58.3*	**3846** *151.4*	**1669** *65.7*							36.00/5.0 **38.00/5.0**	OR 4-63 553056	-
XDR B E4R ** 026549	**24** *14.9*	**1574** *1078*												-
XDR B4 E4R ** 881484	**20** *12.4*	**1312** *899*				**1342** *52.8*	**3776** *148.7*	**1635** *64.4*	**11227** *442*	**105** *132.3*				
XDR A E4R ** 983096	**16** *9.9*	**1050** *719*												

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread Design	Identification code (9)	Explanations on how to choose the tire and to determine the inflation pressures Refer to explanations and methods allowing to determine the inflation pressures (10)											Size
57"													
		APPLICATION	**bar**	**4**	**4.5**	**5**	**5.5**	**6**	**6.5**	**7**	**7.5**		
			psi	*58*	*65*	*73*	*80*	*87*	*94*	*102*	*109*		
XDR C4 ** E4R XDR B ** E4R XDR B4 ** E4R XDR A ** E4R	E4R E4R E4R E4R	Transport	Standard	**52850**	**57800**	**62750**	**67700**	**72650**	**75320**	**78000**	**80660**		**50/90 R 57**
				116534	127449	138364	149279	160193	166081	171990	177855		
X MINE D2 HR * L5R X MINE D2 LC * L5R X MINE D2 SR * L5R	L5R L5R L5R	Loaders	Front laden	**75000**	**80000**	**85000**	**90000**	**95000**	**100000**	**105000**			**55/80 R 57**
				165375	176400	187425	198450	209475	220500	231525			
			Rear unladen	**60000**	**64000**	**68000**	**72000**	**76000**	**80000**	**84000**			
				132300	141120	149940	158760	167580	176400	185220			
X MINE D2 HR * L5R X MINE D2 LC * L5R X MINE D2 SR * L5R	L5R L5R L5R	Loaders	Front laden	**75000**	**83000**	**91000**	**99000**	**107000**	**115000**	**123000**			**60/80 R 57**
				165375	183015	200655	218295	235935	253575	271215			
			Rear unladen	**60000**	**66400**	**72800**	**79200**	**85600**	**92000**	**98400**			
				132300	146412	160524	174636	188748	202860	216972			
63"													
		APPLICATION	**bar**	**4**	**4.5**	**5**	**5.5**	**6**	**6.5**	**6.8**	**7**		
			psi	*58*	*65*	*73*	*80*	*87*	*94*	*99*	*102*		
XKD1 C4 ** E4R XKD1 B ** E4R XKD1 B4 ** E4R XKD1 A ** E4R XDR B ** E4R XDR B4 ** E4R XDR A ** E4R	E4R E4R E4R E4R E4R E4R E4R	Transport	Standard	**59660**	**65240**	**70830**	**76410**	**82000**	**85010**	**86822**	**88030**		**53/80 R 63**
				131550	143854	156180	168484	180810	187447	191443	194106		

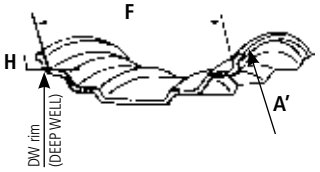
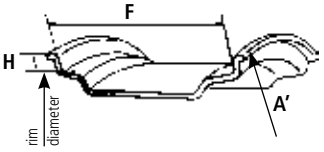
MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **TREAD DESIGN** CAI (Part Number)	Max. dist. / hour **km** *Miles*	TKPH *TMPH* (1)	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (2) Michelin® dimensions						**Measuring Rim** Approved Rims (3) - (4)	Tubeless O-Ring CAI (4)	Tube Type Ref. Flap (4)
			e	D	E	e	D	R'	RC	Tread depth	Cap.			
			mm *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *32nd*	l *gallon*			
63"														
56/80 R 63 Tubeless														
XDR C4 E4R ** 282261	**28** *17.4*	**2150** *1473*												
XDR B E4R ** 819341	**24** *14.9*	**1843** *1262*											-	
XDR B4 E4R ** 380744	**20** *12.4*	**1536** *1052*			**1764** *69.4*	**1425** *56.1*	**3998** *157.4*	**1727** *68*	**11876** *467.6*	**105** *132.3*	**9547** *2522*	41.00/5.0 [5.5] **41.00/5.0 [6.0]**	OR 4-63 553056	- -
XDR A E4R ** 741846 (7)	**16** *9.9*	**1229** *842*												
59/80 R 63 Tubeless														
XDR S C4 E4S ** 784092 (7)	**32** *19.9*	**2535** *1736*												
XDR S B E4S ** 364848 (7)	**28** *17.4*	**2218** *1519*				**1501** *59.1*			**11966** *471.1*	**71** *89.4*				
XDR S B4 E4S ** 524264 (7)	**24** *14.9*	**1901** *1302*											-	
XDR C4 E4R ** 416440 (7)	**28** *17.4*	**2218** *1519*	**1648** *64.9*	**4143** *163.1*	**1858** *73.1*		**4028** *158.6*	**1740** *68.5*			**10160** *2684*	44.00/5.0 [5.5] **44.00/5.0 [6.0]**	OR 4-63 553056	- -
XDR B E4R ** 443800 (7)	**24** *14.9*	**1901** *1302*				**1503** *59.2*			**11970** *471.3*	**116** *146.1*				
XDR B4 E4R ** 037664 (7)	**20** *12.4*	**1584** *1085*												
XDR A E4R ** 490159	**16** *9.9*	**1267** *868*												

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread Design	Identification code (9)	Explanations on how to choose the tire and to determine the inflation pressures Refer to explanations and methods allowing to determine the inflation pressures (10)											Size
63"													
		APPLICATION	**bar**	**6**	**6.5**	**6.7**							
			psi	*87*	*94*	*97*							
XDR C4 ** E4R XDR B ** E4R XDR B4 ** E4R XDR A ** E4R	E4R E4R E4R E4R	Transport	Standard	**96000** 211680	**98900** 218075	**100000** 220500							**56/80 R 63**
		APPLICATION	**bar**	**6**	**6.5**	**6.8**							
			psi	*87*	*94*	*99*							
XDR S C4 ** E4S XDR S B ** E4S XDR S B4 ** E4S XDR C4 ** E4R XDR B ** E4R XDR B4 ** E4R XDR A ** E4R	E4S E4S E4S E4R E4R E4R E4R	Transport	Standard	**99000** 218295	**102100** 225131	**104000** 229320							**59/80 R 63**

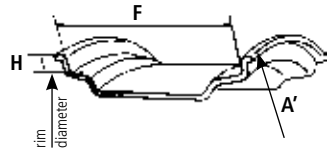
APPROVED RIMS FOR EARTHMOVER TIRES

Rim types	Rim designation	F mm inches	H mm inches	A′ mm inches	Tire sizes	O-ring
DW rim DEEP WELL 	18 x DW 10	254 10.0	25.4 1.0	513 20.2	335/80 R 18	
	18 x DW 11	279.4 11.0	25.4 1.0	513 20.2	335/80 R 18	
	24 x DW 10	254 10.0	25.4 1.0	665 26.2	11.2 LR 24	
	24 x DW 12	304.8 12.0	25.4 1.0	665 26.2	14.9 R 24	
	24 x DW 13	330.2 13.0	25.4 1.0	665 26.2	14.9 R 24	
	24 x DW 14 L (#)	355.6 14.0	25.4 1.0	665 26.2	16.9 R 24 17.5 LR 24 445/70 R 24	
	24 x DW 15 L (#)	381 15.0	25.4 1.0	665 26.2	16.9 R 24 17.5 LR 24 19.5 LR 24 445/70 R 24	
	24 x DW 16 L (#)	406.4 16.0	25.4 1.0	665 26.2	19.5 LR 24 495/70 R 24	
	26 x DW 15 L (#)	381 15.0	25.4 1.0	716 28.2	18.4 R 26 480/80 R 26	none
	26 x DW 16 L (#)	406.4 16.0	25.4 1.0	716 28.2	18.4 R 26 480/80 R 26	
	28 x DW 14 L (#)	355.6 14.0	25.4 1.0	767 30.2	16.9 R 28	
	28 x DW 15 L (#)	381 15.0	25.4 1.0	767 30.2	16.9 R 28 19.5 LR 28	
	28 x DW 16 L (#)	406.4 16.0	25.4 1.0	767 30.2	19.5 LR 28	
	30 x DW 14 L (#)	355.6 14.0	25.4 1.0	818 32.2	16.9 R 30	
	30 x DW 15 L (#)	381 15.0	25.4 1.0	818 32.2	16.9 R 30 18.4 R 30	
	30 x DW 16 L (#)	406.4 16.0	25.4 1.0	818 32.2	18.4 R 30	
	34 x DW 15 L (#)	381 15.0	25.4 1.0	919 36.2	18.4 R 34	
	34 x DW 16 L (#)	406.4 16.0	25.4 1.0	919 36.2	18.4 R 34	
W rim WIDE DROP CENTER 	16 x W 8 L (#)	203.2 8.0	21.6 0.9	449 17.7	11 LR 16	
	16 x W 10 L (#)	254 10.0	21.6 0.9	449 17.7	11 LR 16	
	18 x W 8	203.2 8.0	22.2 0.9	506 19.9	275/80 R 18	
	18 x W 8 L (#)	203.2 8.0	21.6 0.9	505 19.9	275/80 R 18	
	18 x W 9	228.6 9.0	25.4 1.0	513 20.2	275/80 R 18	
	18 x W 10	254 10.0	25.4 1.0	513 20.2	335/80 R 18 12.5/80 R 18	
	18 x W 10L (#)	254 10.0	21.6 0.9	513 20.2	335/80 R 18	
	18 x W 11	279.4 11.0	25.4 1.0	513 20.2	335/80 R 18 12.5/80 R 18	
	20 x W 8	203.2 8.0	22.2 0.9	557 21.9	275/80 R 20	none
	20 x W 8 L (#)	203.2 8.0	21.6 0.9	556 21.9	275/80 R 20	
	20 x W 9	228.6 9.0	25.4 1.0	564 22.2	275/80 R 20 10.5 R 20	
	20 x W 10	254 10.0	25.4 1.0	564 22.2	335/80 R 20 375/75 R 20 12.5/80 R 20 405/70 R 20 (14.5 R 20)	
	20 x W 10 L	254 10.0	22.5 0.9	558 22.0	12.5/80 R 20	
	20 x W 13 L	330 13.0	25.5 1.0	564 22.2	400/70 R 20	
	20 x W 14 L	355.5 14.0	25.5 1.0	564 22.2	400/70 R 20 405/70 R 20 (16/70 R 20)	
	24 x W 10	254 10.0	25.4 1.0	665 26.2	11.2 LR 24	

(#) L reduced flange height

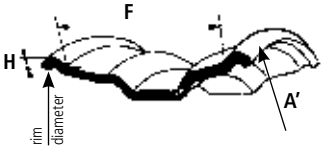
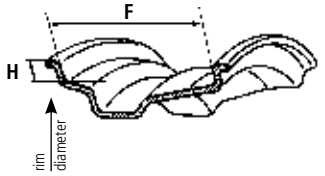
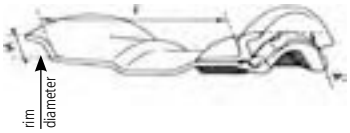
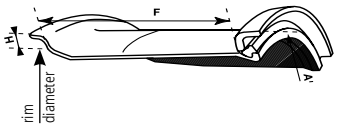
APPROVED RIMS FOR EARTHMOVER TIRES

Rim types	Rim designation	F mm inches	H mm inches	A' mm inches	Tire sizes	O-ring
W rim WIDE DROP CENTER	24 x W 10 L (#)	254 10.0	21.6 0.9	658 25.9	11.2 LR 24	none
	24 x W 12	304.8 12.0	25.4 1.0	665 26.2	14.9 R 24	
	24 x W 13	330.2 13.0	25.4 1.0	665 26.2	14.9 R 24 440/70 R 24	
	24 x W 9	228.6 9.0	25.4 1.0	665 26.2	11.2 LR 24	
	24 x W 14 L (#)	355.6 14.0	25.4 1.0	665 26.2	16.9 R 24 17.5 LR 24 440/70 R 24 445/70 R 24 500/70 R 24	
	24 x W 15 L (#)	381 15.0	25.4 1.0	665 26.2	16.9 R 24 17.5 LR 24 19.5 LR 24 440/70 R 24 445/70 R 24 500/70 R 24	
	24 x W 16 L (#)	406.4 16.0	25.4 1.0	665 26.2	19.5 LR 24 495/70 R 24 500/70 R 24	
	26 x W 15 L (#)	381 15.0	25.4 1.0	716 28.2	18.4 R 26 480/80 R 26	
	26 x W 16 L (#)	406.4 16.0	25.4 1.0	716 28.2	18.4 R 26 480/80 R 26	
	28 x W 14 L (#)	355.6 14.0	25.4 1.0	767 30.2	16.9 R 28	
	28 x W 15 L (#)	381 15.0	25.4 1.0	767 30.2	16.9 R 28 19.5 LR 28	
	28 x W 16 L (#)	406.4 16.0	25.4 1.0	767 30.2	19.5 LR 28	
	30 x W 14 L (#)	355.6 14.0	25.4 1.0	818 32.2	16.9 R 30	
	30 x W 15 L (#)	381 15.0	25.4 1.0	818 32.2	16.9 R 30 18.4 R 30	
	30 x W 16 L (#)	406.4 16.0	25.4 1.0	818 32.2	18.4 R 30	
	34 x W 15 L (#)	381 15.0	25.4 1.0	919 36.2	18.4 R 34	
	34 x W 16 L (#)	406.4 16.0	25.4 1.0	919 36.2	18.4 R 34	
Flat base rims	15 - 6.00 S	152.4 6.0	33.3 1.3	448 17.6	7.50 R 15	none
	20 - 7.33 V	186.2 7.3	44 1.7	596 23.5	9.00 R 20 10.00 R 20 C 20 P (11/80 R 20) E 20 P (13/80 R 20)	**Tyran** (A 20)
	20 - 8.00 V	203.2 8.0	44 1.7	596 23.5	10.00 R 20 E 20 P (13/80 R 20)	
	20 - 8.50 V	215.9 8.5	44 1.7	596 23.5	12.00 R 20 E 20 P (13/80 R 20)	
	20 - 9.00 V	228.6 9.0	44 1.7	596 23.5	12.00 R 20 E 20 P (13/80 R 20)	
	20 - 10.00 V	254 10.0	44 1.7	596 23.5	E 20 P (13/80 R 20)	
	20 - 10.00 W	254 10.0	51 2.0	610 24.0	16.00 R 20 14.00 R 20	
	20 - 11.25	286 11.3	51 2.0	610 24.0	16.00 R 20	none
	21 - 18.00	457.2 18.0	38 1.5	609 24.0	24 R 21	
	24 - 7.33 V	186.2 7.3	44 1.7	698 27.5	12.00 R 24 ***	
	24 - 8.00 V	203.2 8.0	44 1.7	698 27.5	12.00 R 24 ***	
	24 - 8.50 V	216 8.5	44 1.7	698 27.5	12.00 R 24 ***	
	24 - 9.00 V	228.6 9.0	44 1.7	698 27.5	14.00 R 24 *** 15.00 R 24 Pil	
	24 - 10.00 W	254 10.0	51 2.0	712 28.0	14.00 R 24 *** 15.00 R 24 Pil	
	24 - 11.25	285.8 11.3	63.5 2.5	737 29.0	16.00 R 24 **	

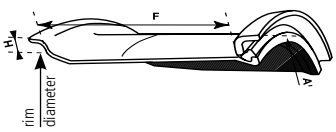
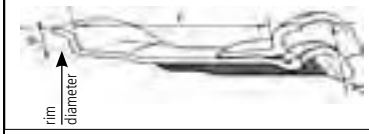


(#) L reduced flange height

APPROVED RIMS FOR EARTHMOVER TIRES

Rim types	Rim designation	F mm inches	H mm inches	A' mm inches	Tire sizes	O-ring
15° taper drop center rims (DC - Drop Center) 	16.5 x 8.25	209.5 8.2	12.7 0.5	445 17.5	10 R 16.5	
	16.5 x 9.75	247.7 9.8	12.7 0.5	445 17.5	12 R 16.5	
	19.5 x 14.00	355.5 14.0	12.7 0.5	521 20.5	18 R 19.5	
	20.5 x 16.00	406.5 16.0	12.7 0.5	546 21.5	525/65 R 20.5	
	20.5 x 18.00	457 18.0	12.7 0.5	546 21.5	24 R 20.5	
	22.5 x 11.75	298.5 11.8	12.7 0.5	597 23.5	15 R 22.5	
	22.5 x 14.00	355.5 14.0	12.7 0.5	597 23.5	18 R 22.5	
5° taper drop center rims (DC - Drop Center) 	15 X 7.00	178 7.0	20.5 0.8	421 16.6	27 x 8.50 R 15	
	15 x 7J	178 7.0	17.3 0.7	415 16.3	27 x 8.50 R 15	
	20 x 9.00 DC	228.6 9.0	25.4 1.0	564 22.2	335/80 R 20	none
	20 x 11.00 DC	279.4 11.0	25.4 1.0	564 22.2	335/80 R 20 375/75 R20 405/70 R 20 425/75 R 20	
	20 x 12.00 DC	304.8 12.0	25.4 1.0	564 22.2	405/70 R 20 (16/70 R 20)	
	20 x 13.00 DC	330.2 13.0	25.4 1.0	564 22.2	405/70 R 20 (16/70 R 20) 425/75 R 20	
see note page 169	24 x 9.00/1.5	228 9.0	38 1.5	690 27.0	13.00 R 24 * TG 14.00 R 24 * TG	
	25 x 12.00/1.3	305 12.0	33 1.3	701 27.6	15.5 R 25 * L2 - L3	
	25 x 13.00/1.4	330 13.0	36 1.4	707 27.8	15.5 R 25 * L2 - L3 17.5 R 25 * L2 - L3	
	25 x 14.00/1.3	355 14.0	33 1.3	701 27.6	17.5 R 25 * L2 - L3	
	25 x 14.00/1.5	355 14.0	38 1.5	711 28.0	17.5 R 25 * L2 - L3	
5° taper semi drop center rims (SDC - Semi Drop Center) 	18 - 5.50 F SDC	139.7 5.5	22.2 0.9	462 18.2	7.50 - 18	none
	24 - 8.00 TG SDC	203 8.0	35.5 1.4	685 27.0	13.00 R 24 * TG 14.00 R 24 * TG	Heupo (OR 2-25)
	24 - 10.00 VA SDC	254 10.0	43 1.7	700 27.6	13.00 R 24 * TG 14.00 R 24 * TG 16.00 R 24 * TG	
	24 - 10.00 WA SDC	254 10.0	51 2.0	714 28.1	14.00 R 24	
	20 - 11 SDC	279.4 11.0	25.5 1.0	564 22.2	335/80 R 20 375/75 R20 405/70 R 20 (14.5 R 20) 425/75 R 20	R 1681 (OR6.6-20)
	20 - 13 SDC	330.2 13.0	25.5 1.0	564 22.2	400/70 R 20 405/70 R 20 (16/70 R 20) 425/75 R 20	
	24 - 16.00 T SDC	406 16.0	35.5 1.4	685 27.0	555/70 R 24 * TG	Lemmertz
5° taper bead seat rims 	15 - B 6.5	165.1 6.5	38.1 1.5	460 18.1	7.50 R 15 8.25 R 15	none
	15 - 10.50	267 10.5	38 1.5	460 18.1	14.5 R 15 350/65 R 15	
	20 - B 6.5	165.1 6.5	38.1 1.5	589 23.2	9.00 R 20	Tyran (A 20)
	20 - B 7.0	177.8 7.0	38.1 1.5	589 23.2	9.00 R 20 10.00 R 20	
	20 - 7.0 T	177.8 7.0	38.1 1.5	589 23.2	9.00 R 20 10.00 R 20	
	20 - 8.0 V	203.0 8.0	44.4 1.7	602 23.7	10.00 R 20 C 20 P (11/80 R 20) E 20 P (13/80 R 20)	
	20 - 8.5 V	216 8.5	44.4 1.7	602 23.7	12.00 R 20 E 20 P (13/80 R 20)	
	20 - B 7.5	190.5 7.5	43.2 1.7	599 23.6	9.00 R 20 10.00 R 20	
	20 - B 8.0	203.2 8.0	43.2 1.7	599 23.6	10.00 R 20 E 20 P (13/80 R 20)	
	20 - B 8.5	216 8.5	45.7 1.8	604 23.8	10.00 R 20 12.00 R 20	

APPROVED RIMS FOR EARTHMOVER TIRES

Rim types	Rim designation	F mm inches	H mm inches	A' mm inches	Tire sizes	O-ring
5° taper bead seat rims (advanced rim) 	15 - 5.5	139.7 5.5	30.5 1.2	448 17.6	7.50 R 15	none
	15 - 6.0	152.4 6.0	33 1.3	453 17.8	7.50 R 15 8.25 R 15	
	15 - 6.5	165.1 6.5	35.6 1.4	459 18.1	7.50 R 15 8.25 R 15	
	15 - 7.0	177.8 7.0	38 1.5	429 16.9	10.00 R 15 8.25 R 15	
	15 - 7.5	190.5 7.5	40.6 1.6	469 18.5	10.00 R 15	
	15 - 11.0	267 10.5	38 1.5	464 18.3	14.5 R 15	none
	15 - 11.00 BD	267 10.5	36 1.4	459 18.1	14.5 R 15	
	15 - 11.50	267 10.5	38 1.5	463 18.2	14.5 R 15 350/65 R 15 400/80 R 15	
	20 - 6.5	165.1 6.5	35.6 1.4	586 23.1	9.00 R 20	Tyran (A 20)
	20 - 7.0	177.8 7.0	38 1.5	556 21.9	9.00 R 20 10.00 R 20	
	20 - 7.5	190.5 7.5	40.6 1.6	596 23.5	9.00 R 20 10.00 R 20 E 20 P (13/80 R 20)	
	20 - 8.0	203.2 8.0	43.2 1.7	601 23.7	10.00 R 20 C 20 P (11/80 R 20) 12.00 R 20 E 20 P (13/80 R 20)	
	20 - 8.5	215.9 8.5	45.7 1.8	606 23.9	12.00 R 20 E 20 P (13/80 R 20)	
	20 - 9.0	228.6 9.0	48.3 1.9	611 24.1	12.00 R 20 E 20 P (13/80 R 20)	
	20 - 10.0	254 10.0	50.8 2.0	616 24.3	E 20 P (13/80 R 20) 14.00 R 20	
	24 - 8.0	203.2 8.0	43.2 1.7	702 27.6	12.00 R 24 ***	none
	24 - 8.5	215.9 8.5	45.7 1.8	707 27.8	12.00 R 24 ***	
	24 - 9.0	228.6 9.0	48.3 1.9	713 28.1	14.00 R 24 *** 15.00 R 24 Pil	
	24 - 10.0	254 10.0	50.8 2.0	718 28.3	14.00 R 24 *** 15.00 R 24 Pil	
5° taper bead seat rims (3 pieces) 	25 - 8.5/1.3	216 8.5	33 1.3	701 27.6	13.00 R 25	Heupo (OR 2-25)
	25 - 10.00/1.5	254 10.0	38 1.5	711 28.0	13.00 R 25 14.00 R 25	
	25 - 11.25/1.3	286 11.3	33 1.3	701 27.6	395/80 R 25 14.00 R 25	
	25 - 12.00/1.3	305 12.0	33 1.3	701 27.6	15.5 R 25 395/80 R 25	
	25 - 14.00/1.5	355 14.0	38 1.5	711 28.0	17.5 R 25	
	25 - 17.00/1.7	432 17.0	43 1.7	721 28.4	20.5 R 25 * 550/65 R 25	
"CR" rims 3 piece for cranes 	25 - 9.50/1.7 CR	241 9.5	43 1.7	721 28.4	14.00 R 25	Sulla (OR 3-25)
	25 - 11.00/1.7 CR	279 11.0	43 1.7	721 28.4	16.00 R 25	
	25 - 14.00/1.7 CR	355 14.0	43 1.7	721 28.4	17.5 R 25	
	25 - 17.00/1.7 CR	432 17.0	43 1.7	721 28.4	20.5 R 25	

APPROVED RIMS FOR EARTHMOVER TIRES

Rim types	Rim designation	F mm inches	H mm inches	A' mm inches	Tire sizes	O-ring
5° taper bead seat rims (5 pieces) 	25 - 11.25/2.0 (*)	284 11.2	51 2.0	737 29.0	14.00 R 25 16.00 R 25	Sulla (OR 3-25)
	25 - 13.00/2.0	330 13.0	51 2.0	737 29.0	16.00 R 25	
	25 - 13.00/2.5 (*)	330 13.0	63.5 2.5	762 30.0	18.00 R 25	
	25 - 15.00/2.5	381 15.0	63.5 2.5	762 30.0	18.00 R 25	
	25 - 15.00/3.0 (*)	381 15.0	76 3.0	787 31.0	21.00 R 25	
	25 - 17.00/2.0 (*)	432 17.0	51 2.0	737 29.0	20.5 R 25 550/65 R 25	
	25 - 17.00/3.0	432 17.0	76 3.0	787 31.0	21.00 R 25	
	25 - 19.50/2.0	495 19.5	51 2.0	737 29.0	25/65 R 25	
	25 - 19.50/2.5 (*)	495 19.5	63.5 2.5	762 30.0	23.5 R 25 600/65 R 25 650/65 R 25 660/65 R 25	
	25 - 20.00/2.0	508 20.0	51 2.0	737 29.0	25/65 R 25	
	25 - 22.00/3.0 (*)	559 22.0	76 3.0	787 31.0	26.5 R 25 650/65 R 25 660/65 R 25 750/65 R 25	
	25 - 24.00/3.0	610 24.0	76 3.0	787 31.0	750/65 R 25	
	25 - 25.00/3.0	635 25.0	76 3.0	787 31.0	750/65 R 25	
	25 - 25.00/3.5 (*)	635 25.0	89 3.5	813 32.0	29.5 R 25 850/65 R 25	
	25 - 27.00/3.5	687 27.0	89 3.5	813 32.0	850/65 R 25	
	29 - 22.00/3.0	559 22.0	76 3.0	889 35.0	26.5 R 29 30/65 R 29	Sulky (OR 3-29)
	29 - 24.00/3.0	610 24.0	76 3.0	889 35.0	30/65 R 29 26.5 R 29	
	29 - 24.00/3.5	610 24.0	89 3.5	915 36.0	29.5 R 29 800/65 R 29	
	29 - 25.00/3.5	635 25.0	89 3.5	915 36.0	29.5 R 29	
	29 - 27.00/3.0	687 27.0	76 3.0	889 35.0	800/65 R 29 875/65 R 29	
	29 - 27.00/3.5	686 27.0	89 3.5	915 36.0	33.25 R 29	
	33 - 13.00/2.5	330 13.0	63.5 2.5	965 38.0	18.00 R 33	Strix (OR 3-33)
	33 - 15.00/3.0	381.0 15	76.2 3.0	991 39.0	21.00 R 33	
	33 - 28.00/4.0	711 28.0	101.5 4.0	1041 41.0	33.5 R 33	
	33 - 28.00/3.5	711 28.0	89 3.5	1016 40.0	35/65 R 33	
	33 - 32.00/4.5	813 32.0	114.5 4.5	1067 42.0	37.5 R 33	
	35 - 15.00/3.0	381 15.0	76 3.0	1041 41.0	21.00 R 35	Stras (OR 3-35)
	35 - 17.00/3.0	432 17.0	76 3.0	1041 41.0	21.00 R 35	
	35 - 17.00/3.5	432 17.0	89 3.5	1067 42.0	24.00 R 35	
	35 - 25.00/3.5	635 25.0	89 3.5	1067 42.0	29.5 R 35	
	35 - 27.00/3.5	686 27.0	89 3.5	1067 42.0	33.25 R 35 29.5 R 35	
	35 - 29.00/3.5	737 29.0	89 3.5	1067 42.0	33.25 R 35 37.25 R 35	
	35 - 31.00/4.0	787 31.0	101.5 4.0	1092 43.0	37.25 R 35	

(*) new rims have an additional marking "IF".
Rims with integrated flanges "IF" for use with radial tires only.
The width of the flange is larger.

APPROVED RIMS FOR EARTHMOVER TIRES

Rim types	Rim designation	F mm inches	H mm inches	A' mm inches	Tire sizes	O-ring
5° taper bead seat rims (5 pièces) 	39 - 32.00/4.5	813 32.0	114.5 4.5	1220 48.0	37.5 R 39 40.5/75 R 39	Fuodi (OR 3-39)
	39 - 32.00/4.0	813 32.0	101.5 4.0	1194 47.0	40/65 R 39	
	45 - 36.00/4.5	914 36.0	114.5 4.5	1372 54.0	45/65 R 45	Ref. 1580 (OR 9.8-45)
	49 - 13.00/2.7	330 13.0	70 2.7	1384 54.5	18.00 R 49	Heyco (OR 3-49)
	49 - 15.00/3.0	381 15.0	76 3.0	1397 55.0	21.00 R 49	
	49 - 17.00/3.0	432 17.0	76 3.0	1397 55.0	21.00 R 49	
	49 - 17.00/3.5	432 17.0	89 3.5	1423 56.0	24.00 R 49	
	49 - 19.50/4.0	495 19.5	101.5 4.0	1448 57.0	27.00 R 49	
	51 - 22.00/4.5	559 22.0	114.5 4.5	1524 60.0	30.00 R 51	Ref. 1479 (OR 4-51)
	51 - 24.00/5.0	610 24.0	127 5.0	1549 61.0	33.00 R 51	
	51 - 26.00/5.0	660 26.0	127 5.0	1549 61.0	36.00 R 51	
	57 - 27.00/6.0	686 27.0	152 6.0	1752 69.0	37.00 R 57	Ref. 1481 (OR 4-57)
	57 - 29.00/6.0	736 29.0	152 6.0	1752 69.0	40.00 R 57 37.00 R 57	
	57 - 32.00/5.0	813 32.0	127 5.0	1702 67.0	40.00 R 57	
	57 - 32.00/6.0	813 32.0	152 6.0	1752 69.0	40.00 R 57	
	57 - 32.00/6.0	813 32.0	152 6.0	1752 69.0	50/80 R 57	
	57 - 32.00/6.5	813 32.0	165 6.5	1778 70.0	50/90 R 57	
	57 - 34.00/5.0	864 34.0	127 5.0	1702 67.0	50/80 R 57	
	57 - 42.00/5.0	1067 42.0	127 5.0	1702 67.0	55/80 R 57	
	57 - 44.00/5.0	1117 44.0	127 5.0	1702 67.0	55/80 R 57	
	57 - 47.00/5.0	1194 47.0	127 5.0	1702 67.0	60/80 R 57	
	63 - 36.00/5.0	914 36.0	127 5.0	1854 73.0	53/80 R 63	Ref. 2053 (OR 4-63)
	63 - 41.00/5.0	1041 41.0	127 5.0	1854 73.0	56/80 R 63	
	63 - 44.00/5.0	1117 44.0	127 5.0	1854 73.0	59/80 R 63	

Note: Depending on the vehicle fitment, there may be other size wheels that should be used. Consult Michelin® for the proper rim by vehicle.

MICHELIN® EARTHMOVER TUBES

Rim diameter	Fits tire sizes	Tube reference	Valve reference	Valve type (#)	Tube + valve CAI	Flap reference	Flap CAI
15"	7.50 R 15	**15/16 J**	570	SC	101106	15x6.00	511268
	8.25 R 15	**15 K**	1221	DC	101126	15x6.00	511268
						15x7.50	084220
	10.00 R 15	**15 P**	582	TC	510204		
16"	11 LR 16	**16 P 15**	611	DR	101163	-	-
18"	275/80 R 18 (10.5 R 18)	**KLEBER 438**	TR 218A	DR	171109	-	-
	335/80 R 18 (12.5 R 18)	**KLEBER 444**	TR 218A	DR	170025		
19.5"	18 R 19.5 525/65 R 20.5	**19.5/20.5 UD**	1964	DR	101280	- -	- -
20"	9.00 R 20	**20 M**	1157	SC	101153	20x7.50	818874
	C 20					20x8.50	111005
	10.00 R 20	**20 N**	1158	SC	101161	20x7.50	818874
	11.00 R 20 E 20 Pilote	**20 P**	1158	SC	101173	20x8.50	111005
	275/80 R 20 (10.5 R 20) 335/80 R 20 (12.5 R 20)	**KLEBER 444**	TR 218A	DR	170025	-	-
	12.00 R 20	**20 Q**	1158	SC	101192	20x8.50	111005
	14.00 R 20	**20 Q**	1158	SC	101192	20x10.0	004489
	375/75 R 20 (14.5 R 20) 405/70 R 20 (14.5 R 20 & 16/70 R 20)	**KLEBER 664**	TR 218A	DR	171112	-	-
	425/75 R 20 (16.5/75 R 20)	**KLEBER 829**	TR 218A	DR	751070	-	-
	16.00 R 20	**20 V**	576	SC	511937	20x10.00	004489
20.5"	24 R 20.5	**20.5 WAMD**	1837 (TRJ650)	SC	101331	-	-
21"	24 R 21	**21 WAM**	1837 (TRJ650)	SC	101333	17-20	551436
22.5"	15 R 25.5	**20 S**	582	TC	101221		
	18 R 22.5	**22.5 TAMD**	1837 (TRJ650)	SC	101853	-	-
		22.5 TD	1964	DR	101863	-	-
24"	10.00 R 24 11.2 R 24	**KLEBER 690**	TR 218A	DR	170036	-	-
	12.00 R 24	**24 Q**	582	TC	101196	24/25x8.50	001444
	13.00 R 24 on DC and SDC rim 14.00 R 24 TG on DC and SDC rim 14.9 R 24	**KLEBER 703**	TR 218A	DR	171114	13-24 DR	102902
	13.00 R 24 on DC and SDC rim 14.00 R 24 TG on DC and SDC rim	**24 TD**	577	SC	101244	13-24 DR	102902
24/25"	14.00 R 24 on flat base rim 15.00 R 24	**24/25 T**	752	SC	514503	13-24/25	551600
	13.00 R 25					24/25x8.50	001444
	14.00 R 25					13-24/25	551600
	14.00 R 24 on flat base rim 15.00 R 24 14.00 R 25	**24/25 T AM**	1837 (TRJ650)	SC	101781	13-24/25 S	551601
	17.5 R 25					16-24/25	551608
	16.00 R 24 ** on flat base rim 16.00 R 25	**24/25 V AM**	1837 (TRJ650)	SC	101811	14-24/25	551604
	20.5 R 25					17-24/25	551610
	16.00 R 24* on SDC rim	**24/25 VD**	577	SC	101299	13-24 DR	102902
24/26"	16.9 LR 24 17.5 LR 24 19.5 LR 24 440/70 R 24 (17.5 LR 24) 500/70 R 24 (19.5 LR 24)	**(710) KLEBER**	TR 218A	DR	170042	-	-

(#) DR = straight valve, SC = single bend valve, DC = double bend valve, TC = triple bend valve, see pages 131 to 134.

MICHELIN® EARTHMOVER TUBES

Rim diameter	Fits tire sizes	Tube reference	Valve reference	Valve type (#)	Tube + valve CAI	Flap reference	Flap CAI
25″	15.5 R 25 395/80 R 25	**25 S AM**	1837 (TRJ650)	SC	101771	15-24/25	551606
	18.00 R 25	**25 W AM**	1837 (TRJ650)	SC	101871	16-24/25	551608
	23.5 R 25					18-24/25	551612
	21.00 R 25	**25 YB AM**	1837 (TRJ650)	SC	101346	17-24/25	551610
	26.5 R 25					18-24/25	551612
	29.5 R 25					19-25 (8)	102610
26″	18.4 R 26	**KLEBER 716**	TR 218A	DR	170047	-	-
28″	16.9 R 28 19.5 LR 28	**KLEBER 822**	TR 218A	DR	170149	-	-
29″	26.5 R 29	**29 W AM**	1837 (TRJ650)	SC	101823	19-29 (8)	102620
	29.5 R 29 33.25 R 29	**29 YE AM1**	1837 (TRJ650)	SC	101803	19-29 (8)	102620
30″	16.9 R 30 18.4 R 30	**KLEBER 754 & 757**	TR 218A	DR	170058 & 170060	-	-
33″	18.00 R 33	**33 VF AM**	1837 (TRJ650)	SC	101321	16-33	551760
	33.5 R 33	**33/35 YE AM**	1837 (TRJ650)	SC	101833	20-33	551770
34″	18.4 R 34	**KLEBER 823**	TR 218A	DR	170150	-	-
35″	24.00 R 35	**33/35 YE AM**	1837 (TRJS650)	SC	101833	16-35	551800
	29.5 R 35 33.25 R 35 37.25 R 35					20-35	551808

(#) DR = straight valve, SC = single bend valve, DC = double bend valve, TC = triple bend valve, see pages 131 to 134.

TUBE MARKINGS

example 1: **24/25 V AM**

example 2: **25 YB AM**

The first two numbers indicate the bead seat (rim) diameter of the tire into which the tube can be fitted (in the first example, the tube may be fitted in 24 and 25 inch tires. In the second example, the tube may be fitted only in 25 inch tires).
The first letter corresponds to the section width of the tube (internal width of the tire).
This ranges from A to Z, with A being the smallest, and Z the largest.
In the examples above, V and Y indicate that the tubes are designed for fitting into tires of relatively large section width.
Sometimes, a second letter provides additional information (example 2) B, E, F and H indicate intermediate widths.
The third and fourth letters are an indication of the valve type.
AM indicates that the tube is fitted with an American valve base: R1946 (TRA SP4000) and a valve stem R1837 (TRJ 650).
D would indicate that the valve is offset. T would indicate a tractor tube fitted with an air-water valve, type TR 218A.
Explanation on valves and valve bases are given on subsequent pages.

FLAP MARKINGS

example: **14-24/25**

The first number indicates the total width of the flap when laid flat (includes height of edges), expressed in either mm or in inches.
In the example above, the width of the flap is 14 inches.
The second number indicates the rim diameter, or the tire bead seat (rim) diameter in inches, with which the flap is to be used.
In this example, the flap may be used with 24 and 25 inch tires.
Additional letters may be used to provide supplementary information.
For example, the significance of different letters is as follows: L - the edges are tapered,
B - the flap has a reinforcing boss around the valve hole, S - the flap is reinforced, D - offset hole valve.

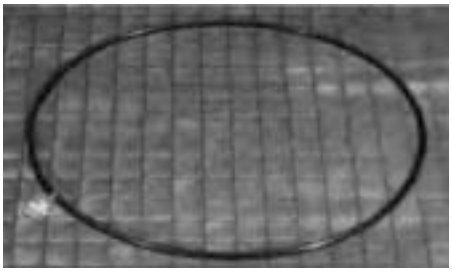
SEALS FOR MICHELIN® EARTHMOVER TIRES AND RIMS

Name	Designation	Reference	CAI	Type	Remarks
-	OR 6.6 - 20	R 1681	553 215	O-ring	for fitting 335/80 R 20, 375/75 R 20 405/70 R 20 and 425/75 R 20 tyre on SDC rim
-	OR 6-6 - 21	R 1506	553 213	O-ring	
Heupo	OR 2 - 25	R 1438	553 201	O-ring	for fitting 25" rim (3 pieces) for fitting 12.00 R 24, 13.00 R 24,14.00 R 24 and 555/70 R 24 tyres on TG and SDC rim
Sulla	OR 3 - 25	R 1437	553 200	O-ring	for 25" rim (5 pieces) and for 3 pieces CR rims (cranes)
Sulky	OR 3 - 29	R 1439	553 202	O-ring	for 29" rim
-	OR 2 - 32	R 2052	553 055	O-ring	
Strix	OR 3 - 33	R 1440	553 203	O-ring	for 33" rim
Stras	OR 3 - 35	R 1441	553 204	O-ring	for 35" rim
Fuodi	OR 3 - 39	R 1069	553 206	O-ring	for 39" rim
-	OR 9-8-45	R 1580	553 214	O-ring	for 45" rim
Heyco	OR 3 - 49	R 1442	553 205	O-ring	for 49" rim
-	OR 4 - 51	R 1479	553 210	O-ring	for 51" rim
-	OR 4 - 57	R 1481	553 211	O-ring	for 57" rim
-	OR 4 - 63	R 2053	553 056	O-ring	for 63" rim

Tyran	A 20	R 1443	553 004	Corner seal	for C20 Pil X LC
Lemmerz	-	3886-6	800 098	Corner seal	for fitting TG tyres on 24" SDC rims
-	B 24/25	R 1528	553 021	Corner seal	
Iceru	G 25	R 1237	553 012	Corner seal	for fitting 12.00 R 24 X MINE D2
Icesy	G 29	R 1238	553 013	Corner seal	Bead seal 29"
Icita	G 33	R 1239	553 014	Corner seal	Bead seal 33"
Icive	G 35	R 1240	553 015	Corner seal	Bead seal 35"
Icali	G 39	R 1233	553 011	Corner seal	Bead seal 39"
Icibi	G 49	R 1241	553 016	Corner seal	Bead seal 49"
Icico	G 51	R 1242	553 017	Corner seal	Bead seal 51"

SEALS DESCRIPTION

O-RING:

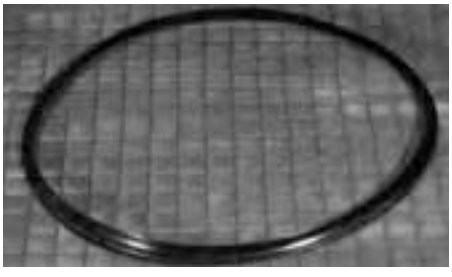


Explanation of the sealing ring's naming process:
- OR: Abbreviation of O Ring

- The first number is the section diameter of the seal:
  - integer number: value expressed in 1/8 of inch (3 = 3/8)
  - decimal number: value expressed in mm (6.6 = 6.6 mm)

- The second number is the nominal bead seat diameter, expressed in inches.

CORNER SEAL:



Explanation of the corner seal's naming process:
- The letter indicates the profile of the seal
- The number is the nominal rim diameter, in inches.

NOTE: APPROVAL FOR USE OF CORNER SEALS MUST BE OBTAINED FROM MICHELIN®.

CAR TUBE TYPE STRAIGHT VALVE

Michelin® code	ETRTO code	Valve code	Valve hole ø in mm
611	V2-01-2	TR 15	16
746	V2-01-1	TR 13	11.5

VALVE MARKINGS

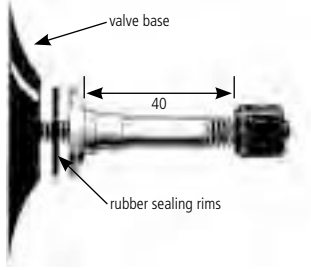
The valve is circular and is marked in accordance with ETRTO standards, starting at the top of the valve, and in the following order:
- NAME (or trademark) of the valve manufacturer and his reference number.
- ETRTO reference number.

FITTING A UNIVERSAL VALVE ON A MICHELIN® TUBE WITH A VALVE BASE

1 - Position the sealing ring on the valve. The sealing ring must be clean and dry.
2 - Hand tighten the valve until it just touches the sealing ring.
3 - Tighten the valve for a further two turns.
4 - To orientate the valve in the desired position, tighten further.

IMPORTANT: never unscrew the valve to the desired position.
Note: Do not exceed the tightening guidelines given above.
Do not forget to replace the valve cap to prevent dirt ingress and to ensure air tightness.

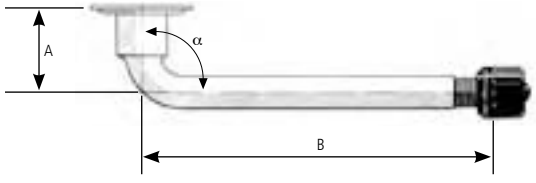
SMALL TRUCK UNIVERSAL STRAIGHT VALVE



- Fitted to MICHELIN® tubes used as replacement with 5° and 15° non U type rims.

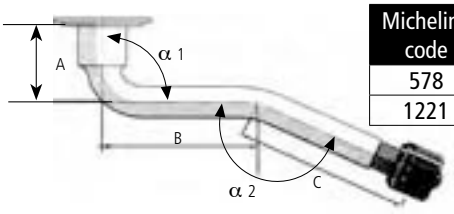
Michelin® code	ETRTO designation	Valve hole ø in mm	A	
			mm	inches
1964	/	9.7	40	1.57

TRUCK TYPE UNIVERSAL SINGLE BEND VALVE



Michelin® code	ETRTO designation	A		B		α°
		mm	inches	mm	inches	
570	V3-02-2	22.5	0.89	43	1.69	120
576	V3-02-3	33	1.30	44.5	1.75	95
577	V3-02-4	39.5	1.56	44.5	1.75	110
752	V3-02-17	20.5	0.81	156.5	6.16	90
1157	V3-02-12	20.5	0.81	132	5.2	94
1158	V3-02-14	20.5	0.81	138.5	5.45	94

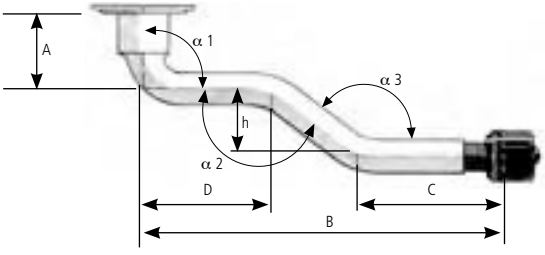
TRUCK TYPE UNIVERSAL DOUBLE BEND VALVE



Michelin® code	ETRTO Designation	α1°	α2°
578	V3-04-1	90	140
1221	V3-05-1	90	165

A		B		C	
mm	inches	mm	inches	mm	inches
20.5	0.81	32	1.26	37	1.46
15.5	0.61	32.5	1.28	66	1.46

TRUCK TYPE UNIVERSAL DOUBLE BEND VALVE



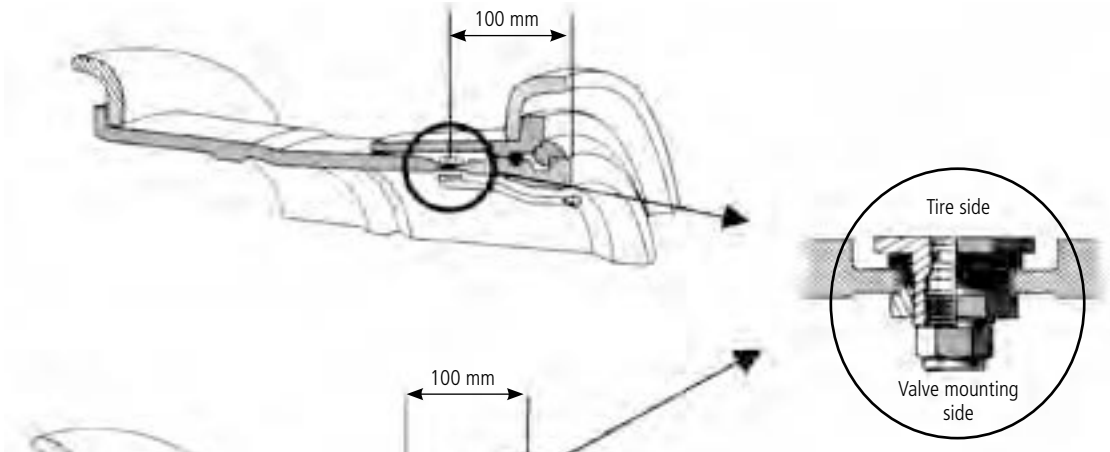
Michelin® code	ETRTO designation	α1°	α2°	α3°
582	V3-06-5	90	139	139

A		B		C		D	
mm	inches	mm	inches	mm	inches	mm	inches
20.5	0.81	131	5.16	49	1.93	62.5	2.46

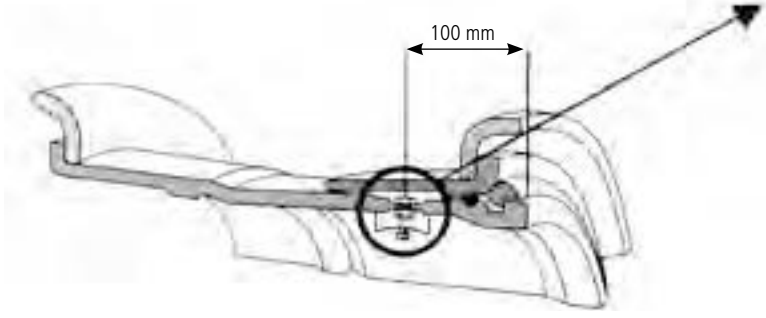
TYPES OF TUBELESS EARTHMOVER VALVES

VALVE TYPE A1

TYPE A1

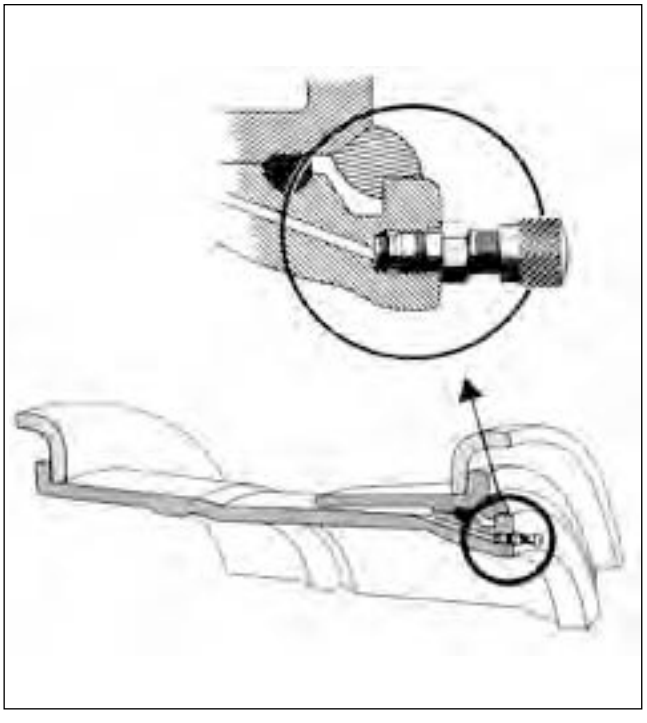


TYPE A1 D

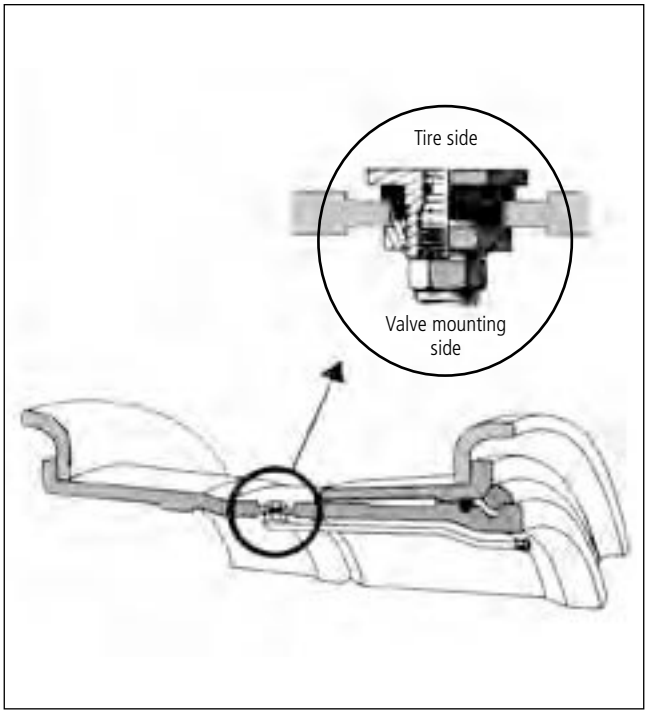


VALVE COMBINATION TYPE A4:	Comprised of two TYPE A1 valves, both set at 100 mm from the rim edge, to enable water filling.

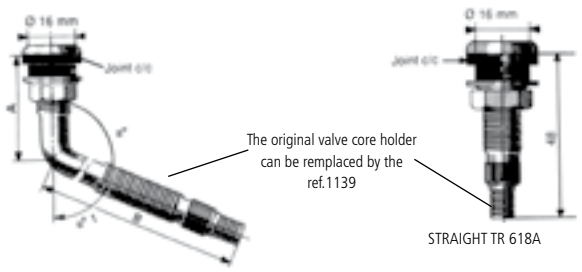
VALVE TYPE A2



VALVE TYPE A3



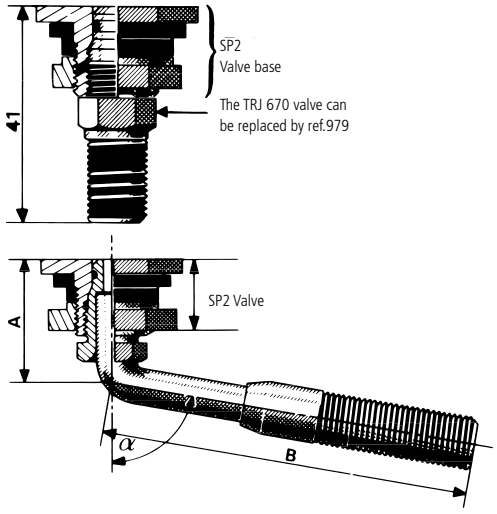
AIR AND WATER TUBELESS VALVES AMERICAN TRA STANDARD



TRA code	ETRTO designation	A		B		α°
		mm	inches	mm	inches	
TR 618 A	V5-01-1	47.5	1.87	-		-
TR 621 A	V5-02-1	39	1.54	76	2.99	115°
TR 622 A	V5-02-2	44.5	1.75	117	4.61	90°
TR 623 A	V5-02-3	39	1.54	57	2.24	115°

Valves for 15.7 mm (0.6 inch) diameter hole

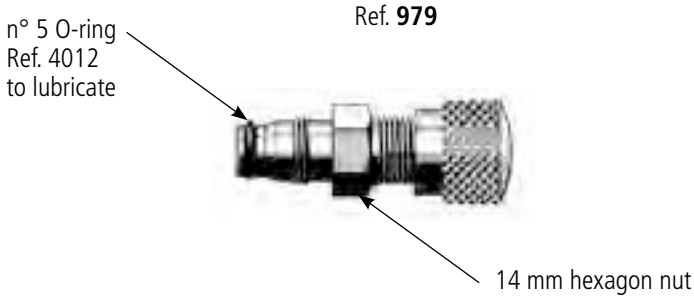
EARTHMOVER TUBELESS VALVE (AMERICAN, TRA STANDARD)



Michelin® code	TRA code	ETRTO designation	A		B		α°
			mm	inches	mm	inches	
R 1837	TRJ 650	V5-04-1	27	1.08	79	3.12	100°
	TRJ 651	V5-04-2	32	1.27	119	4.69	90°
	TRJ 652		27	1.08	140	5.5	94°
	TRJ 653		27	1.08	63	2.5	100°
	TRJ 654		27	1.08	79	3.12	120°
	TRJ 655		27	1.08	79	3.12	106°
	TRJ 656		67	2.62	94	3.69	90°
	TRJ 657		27	1.08	102	4	100°
	TRJ 658		27	1.08	140	5.5	100°
	TRJ 659		48	1.89	89	3.5	90°
	TRJ 660		48	1.89	222	8.75	90°
	TRJ 669		27	1.08	64	2.5	90°
R 979	TRJ 670		41	1.63	-	-	-

Valves used on an American valve base SP2
[20.5 mm (0.8 inch) diameter hole] and also on AM tubes.

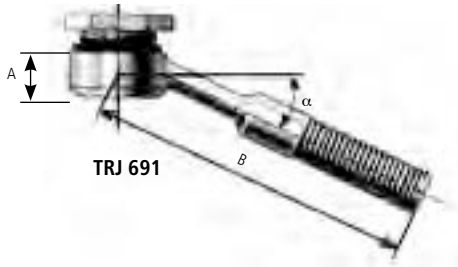
STRAIGHT LARGE BORE VALVES



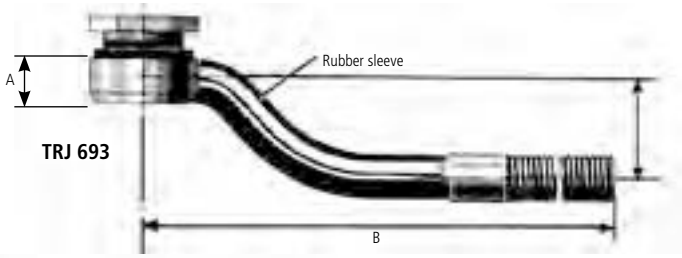
Used with **Type A2** rim contour or with **SP2 base (may also replace TRJ 670)**.

SINGLE PIECE VALVES (20.5 mm valve hole)

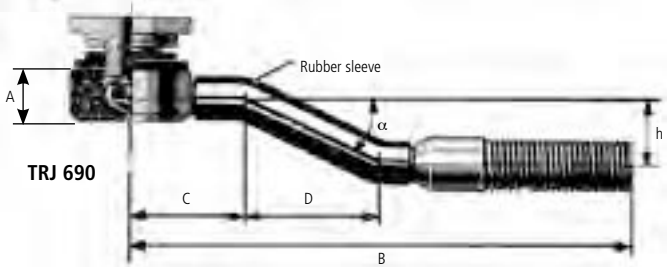
TRA code	A		B		C		D		H		α°
	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	
TRJ 690	16	0.63	119	4.69	32	1.26	27	1.06	14	0.55	28
TRJ 691	16	0.63	84	3.31							18
TRJ 693	16	0.63	127	5.00					25	0.98	



TRJ 691

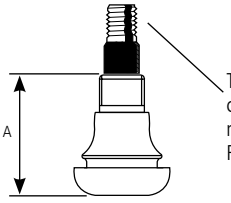


TRJ 693



TRJ 690

AIR AND WATER TUBELESS STRAIGHT RUBBER VALVES



A		Designation
mm/inches		
35	1.38	35 GSW 15.7

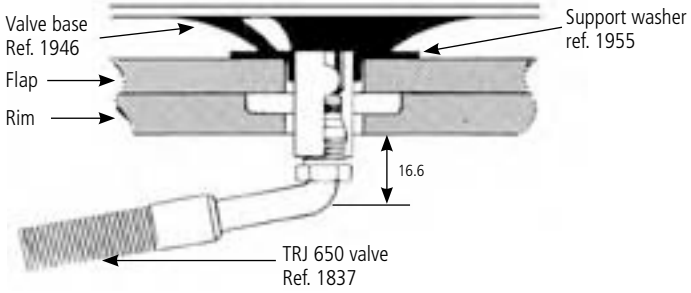
Valves for 15.7 mm (0.6 inch) diameter hole

Caution ! Don't use this valve with pressures higher than 4.5 bar.

VALVE BASE

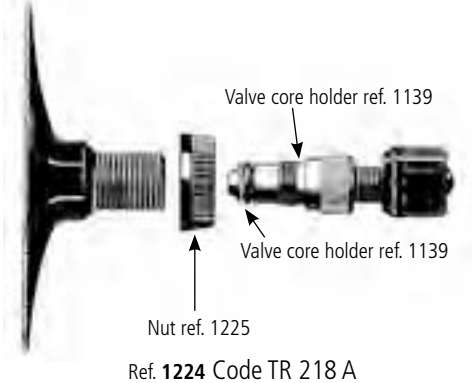
ACTUAL VALVE

(FITMENT WITH TUBE)



AIR AND WATER AGRICULTURAL TYPE VALVE BASE

Allows tire to be water filled.
Valve with core holder 1139 and plastic nut ref. 1225.



Ref. **1224** Code TR 218 A

NOTES

INDUSTRIAL TIRES

Tires for mechanical handling equipment used in areas where there is a high risk of fire or explosion, such as the chemical and petrochemical industries, must meet certain standards concerning their electrical resistivity. These requirements are indicated in the operating norms.
Conforming tires are known as "Antistatic Class 1".
ALL MICHELIN® INDUSTRIAL Tires are marked (or will be progressively marked) with the following symbol moulded into the sidewall.
Notes: for other ranges of TIRE used on mechanical handling equipment in high risk areas, contact Michelin® for advice.

The information given in this brochure is subject to modification without notice.
Figures given for information only and may change. They can not be used for legal purposes.

THE SOLID TIRE (PSS – PNEUMATIC SHAPED SOLID) CONSTRUCTION

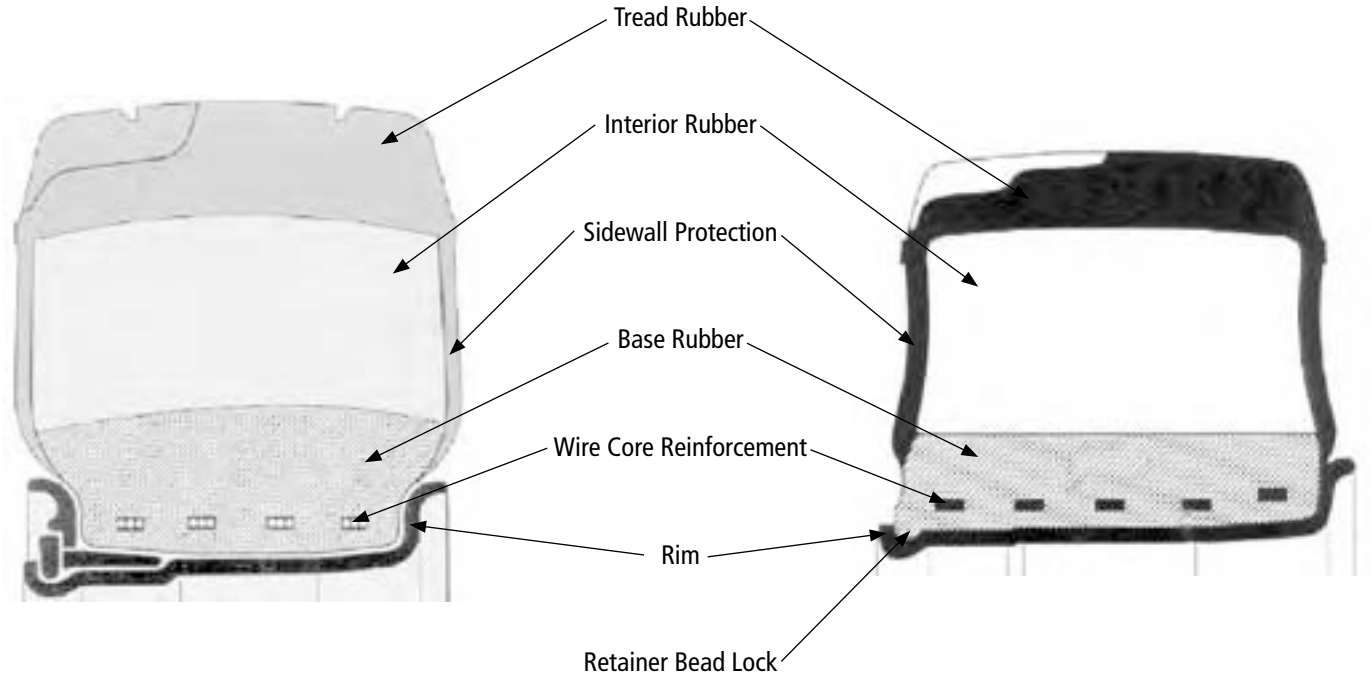


fig. 1 **fig. 2**

The whole tire is made of rubber, with the possibility of three different rubber compounds.

The construction of the tires is different, depending on how they are fitted to the rim.

- the tire may be built to look like a pneumatic tire, and can be fitted to a multipiece rim (fig. 1)
- the tire may be designed and built in such a manner that it is not necessary to use the removable pieces of the rim to hold the tire in position once fitted.

There is an extension to the base of the tire called the "Retainer Bead" which sits in the locking ring groove to hold the tire in place.

As a result, the removable parts of the wheel are not supplied, making the fitment of a pneumatic tire impossible without purchase of these components (fig. 2)

Disadvantages

High Rolling Resistance
Severe thermal degradation with intensive use
Special Fitting Equipment needed (60 ton hydraulic press)
Poor load and machine protection
Poor comfort level
High purchase price
Poor Traction properties

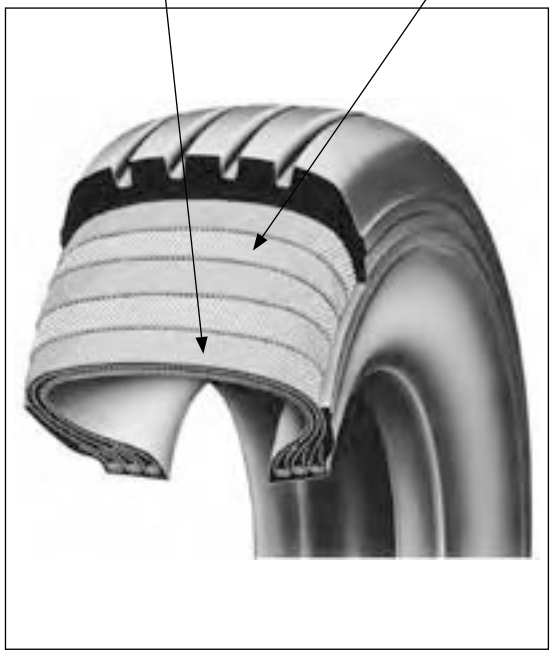
Advantages

Puncture-proof tire
Practically maintenance free
High levels of stability

DIAGONAL PLY CONSTRUCTION

The casing is made up of several **criss-crossed fabric plies.**

The crown **is not stabilized.**



The crown and sidewalls are formed by the same ply structure. The tread is affected by flexing of the sidewalls, resulting in,
- deformation of the tire contact area on the ground
- movement in the tread contact area.

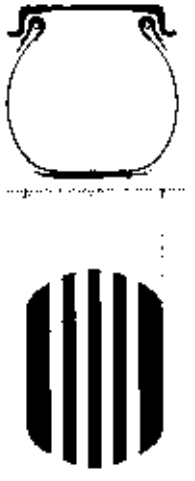
The casing plies tend to "scissor" in relation to each other.

Disadvantages:
- **accelerated wear.**
- **less grip.**
- **increased fuel consumption.**

MICHELIN® X® RADIAL CONSTRUCTION

The crown is stabilized by **several steel plies.**

The casing has **one steel radial** ply.

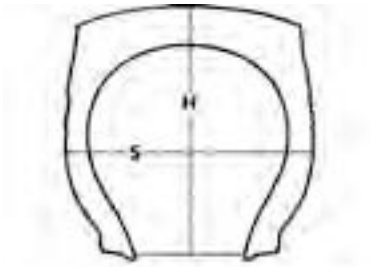


The sidewall and tread function separately.
The tread is unaffected by the flexing of the sidewalls, so there is:
- less deformation of the tire contact area on the ground.
- less movement in tread contact area.
- no movement between casing plies.

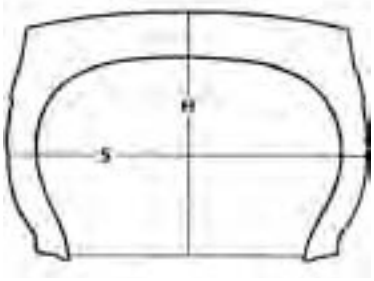
Radial Advantages:
- **longer tire life.**
- **better traction on all types of surface.**
- **lower fuel consumption due to lower rolling resistance.**
- **improved comfort.**
- **increased resistance to punctures / flats.**
- **increased resistance to heating.**

THE DIFFERENT TIRE FAMILIES

There are different tire families categorized by the aspect ratio **H/S**:
(the ratio between the sidewall height and the tire width).



100 series or standard tire (narrow base)
The **H/S** aspect ratio is approximately equal to **1.00**.
The section width, given in inches, is a whole number
e.g.: **12.00 R 20**
or the section width, given in inches, is a whole number followed by a fraction.
e.g.: **8.25 R 15**



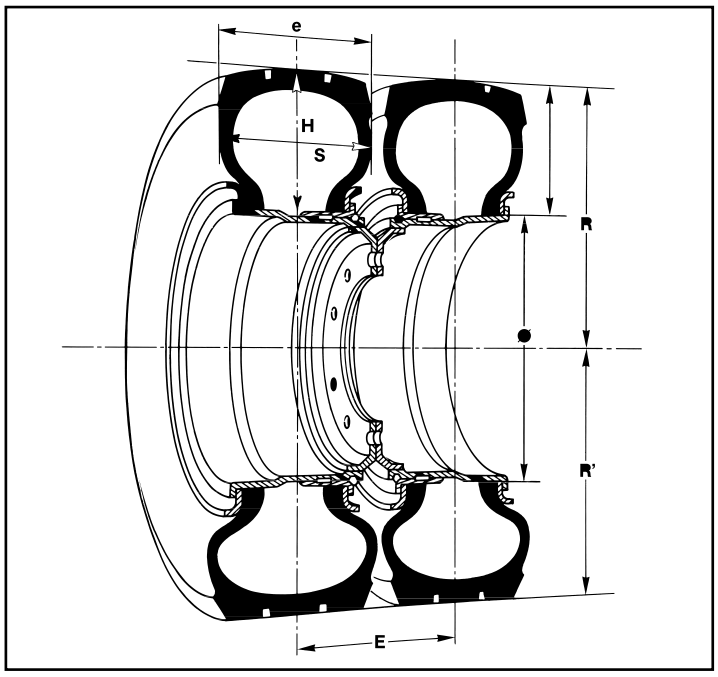
Low profile tires (65, 70, 75, 80 series)
The **H/S** aspect ratio is less than to 1 (0.65 - 0.70 - 0.75 or 0.80)
The section width is given in millimeters followed by the number 65, 70 or 75.
e.g.: **225/75 R 10**
355/65 R 15

THE DIFFERENT TIRE SIZE DESIGNATIONS

EQUIVALENT MARKINGS							EXPLANATION							
Ø of rim (inches)	STANDARDIZED TIRE SIZE DESIGNATION		RADIAL MARKING	METRIC TIRE SIZE DESIGNATION		RADIAL MARKING	Ø ext. (inch)	section width (inches)	section width (mm)	aspect ratio H/S	Ø of rim (inches)	load index	speed index	Ply Rating
4	4.80 - 4	4.00 - 4						4.00			4			
8	4.80 - 8	4.00 - 8						4.00			8			
	5.70 - 8	5.00 - 8	**5.00 R 8**					5.00			8	111	A5	10 PR
	15 x 4 - 8				125 / 75 - 8		15	x 4.5	125	/ 75	8			
	16 x 6 - 8				150 / 75 - 8		16	x 6	150	/ 75	8			
	18 x 7 - 8	18 x 7			180 / 70 - 8	**180/70 R 8**	18	x 7	180	/ 70	8	125	A5	
9	21 x 8 - 9				200 / 75 - 9		21	x 8	200	/ 75	9			
	6.90 - 9	6.00 - 9	**6.00 R 9**					6.00			9	121	A5	
10		6.50 - 10	**6.50 R 10**					6.50			10	128	A5	
	23 x 9 - 10				225 / 75 - 10	**225/75 R 10**	23	x 9	225	/ 75	10	142	A5	
12		7.00 - 12	**7.00 R 12**					7.00			12	136	A5	
	23 x 10 - 12				250 / 60 - 12		23	x 10	250	/ 60	12			
	27 x 10 - 12				250 / 75 - 12	**250/75 R 12**	27	x 10	250	/ 75	12	152	A5	
15		7.00 - 15	**7.00 R 15**					7.00			15	143	A5	
		7.50 - 15	**7.50 R 15**					7.50			15	146	A5	
	28 x 9 - 15	8.15 - 15			225 / 75 - 15	**225/75 R 15**	28	x 9	225	/ 75	15	149	A5	
		8.25 - 15						8.25			15	153	A5	
				250 - 15	250 / 70 - 15	**250/70 R 15**			250	/ 70	15	153	A5	
				300 - 15	315 / 70 - 15	**315/70 R 15**			315	/ 70	15	165	A5	
					355 / 65 - 15	**355/65 R 15**			355	/ 65	15	175	A5	

EXPLANATION OF DIFFERENT MEASUREMENTS

(ref. notes 1 and 2 on the following pages)



e: maximum overall section width

D: external tire diameter (R x 2)

Ø: Nominal bead seat diameter (rim diameter)

S: section width on measuring rim (this rim is indicated in bold)

E: minimum dual spacing (on measuring rim)

H: section height

R: free radius (2R = D)

R': static loaded radius *

RC: rolling circumference *

Tread depth: tire tread depth in mm (rubber depth that can be used without risk)

Cap.: Interior capacity of the tire (to calculate the nitogen quantity when inflated with nitrogen, or the liquid quantity when filled)

* determinated by the reference conditions (see following page).

The dimensional data given in tabular form in this publication (as indicated above) conforms to those of the European Standard (E.T.R.T.O.).
They are given for information only and may change.

TIRE MARKING

Position of wear indicator

MICHELIN® Manufacturer

355 Nominal section width in mm (S = 355 mm)

65 Tire aspect ratio (H/S = 0.65)

R Radial construction

15 Nominal diameter of rim to which tire should be fitted (15 inches)

STABIL'X "Family" name

XZM Tread pattern

Tubeless Tubeless tire

175 Load Index

A5 Speed Symbol: 25 km/h / 15 mph

CYCLIC Cyclic use (see explanation on following pages)

Radial X Clear indication of tire structure

"Anti-static Class 1" tire

For special conditions use, please consult Michelin® Earthmover.

LOAD INDEX AND SPEED SYMBOL

Industrial and handling tires bear a Load Index and a Speed Symbol.
The **LOAD INDEX** is a numerical code which indicate the maximum load a tire can carry at the speed corresponding to its Speed Symbol, under specified conditions.

LI	maximum load lb	kg	LI	maximum load lb	kg	LI	maximum load lb	kg	LI	maximum load lb	kg
100	1,764	800	**130**	4,190	1,900	**160**	9,920	4,500	**190**	23,370	10,600
101	1,819	825	**131**	4,300	1,950	**161**	10,200	4,625	**191**	24,030	10,900
102	1,874	850	**132**	4,410	2,000	**162**	10,470	4,750	**192**	24,690	11,200
103	1,929	875	**133**	4,540	2,060	**163**	10,750	4,875	**193**	25,360	11,500
104	1,985	900	**134**	4,670	2,120	**164**	11,020	5,000	**194**	26,020	11,800
105	2,040	925	**135**	4,810	2,180	**165**	11,350	5,150	**195**	26,790	12,150
106	2,095	950	**136**	4,940	2,240	**166**	11,690	5,300	**196**	27,560	12,500
107	2,150	975	**137**	5,070	2,300	**167**	12,020	5,450	**197**	28,330	12,850
108	2,205	1,000	**138**	5,200	2,360	**168**	12,350	5,600	**198**	29,100	13,200
109	2,271	1,030	**139**	5,360	2,430	**169**	12,790	5,800	**199**	29,990	13,600
110	2,337	1,060	**140**	5,510	2,500	**170**	13,230	6,000	**200**	30,870	14,000
111	2,403	1,090	**141**	5,680	2,575	**171**	13,560	6,150	**201**	31,970	14,500
112	2,470	1,120	**142**	5,840	2,650	**172**	13,890	6,300	**202**	33,070	15,000
113	2,536	1,150	**143**	6,010	2,725	**173**	14,330	6,500	**203**	34,180	15,500
114	2,602	1,180	**144**	6,170	2,800	**174**	14,770	6,700	**204**	35,280	16,000
115	2,679	1215	**145**	6,390	2,900	**175**	15,210	6,900	**205**	36,380	16,500
116	2,756	1,250	**146**	6,610	3,000	**176**	15,650	7,100	**206**	37,480	17,000
117	2,833	1,285	**147**	6,780	3,075	**177**	16,090	7,300	**207**	38,590	17,500
118	2,911	1320	**148**	6,950	3,150	**178**	16,530	7,500	**208**	39,690	18,000
119	2,999	1360	**149**	7,170	3,250	**179**	17,090	7,750	**209**	40,790	18,500
120	3,090	1,400	**150**	7,390	3,350	**180**	17,640	8,000	**210**	41,890	19,000
121	3,200	1,450	**151**	7,610	3,450	**181**	18,190	8,250	**211**	43,000	19,500
122	3,310	1,500	**152**	7,830	3,550	**182**	18,740	8,500	**212**	44,100	20,000
123	3,420	1,550	**153**	8,050	3,650	**183**	19,290	8,750	**213**	45,420	20,600
124	3,530	1,600	**154**	8,270	3,750	**184**	19,840	9,000	**214**	46,750	21,200
125	3,640	1,650	**155**	8,540	3,875	**185**	20,390	9,250	**215**	48,070	21,800
126	3,750	1,700	**156**	8,820	4,000	**186**	20,940	9,500	**216**	49,390	22,400
127	3,860	1,750	**157**	9,090	4,125	**187**	21,500	9,750	**217**	50,700	23,000
128	3,970	1,800	**158**	9,370	4,250	**188**	22,050	10,000	**218**	52,040	23,600
129	4,080	1,850	**159**	9,650	4,375	**189**	22,710	10,300	**219**	53,580	24,300

The Standard Organizations (ETRTO, T.R.A. and J.A.T.M.A.) take this into account, and define the load limits for tires according to where these are to be fitted on a machine.
The coefficients that are applied to the various positions on the machines are given below.
The speeds indicated below are max. speeds at which the machines may operate.

MECHANICAL HANDLING		
USE		**MAXIMUM LOAD (% of the reference load)**
FORKLIFT TRUCK		
to 25 km/h (15 mph)	Drive axle	130
	Steer axle	**100**
to 35 km/h (22 mph)	Drive axle	125
	Steer axle	92.5
SIDE-LOADER (up to 35 km/h / 22mph) and other equipment		
static		151
up to 25 km/h (15 mph)		100
up to 35 km/h (22 mph)		92.5
OTHER MACHINES		
up to 6 mph (10 km/h)		130
up to 25 km/h (15 mph)		100
up to 40 km/h (25 mph)		89
up to 50 km/h (35 mph)		84

"**CYCLIC USE**" describes applications where tIres are not used continually at the Load Index or Speed Symbol ratings, but generally operate one way loaded and one way empty (typically forklift truck use and other front loading machines).

As a general rule, in the case of forklift trucks and other front loading machines (e.g. Reach Stackers), the steer axle (rear axle) is at maximum load when the machine is empty, and the front axle at maximum load when the machine is laden.

SPEED SYMBOLS

The **SPEED SYMBOL** indicates the speed at which the tIre can carry a load corresponding to its Load Index, under specified conditions.

Symbol	A1	A2	A3	A4	A5	A6	A7	A8	B	C	D	E	F	G	J	K	L
speed (km/h)	5	10	15	20	25	30	35	40	50	60	65	70	80	90	100	110	120
speed (mph)	3	6	9	12	15	19	22	25	31	37	40	43	50	56	62	68	74

When the max. speed of the machine is higher than the tIre Speed Symbol, the tIre load capacity must be reduced according to the values indicated in the industrial handling table (for special cases, please consult us).

IMPORTANT:

- do not exceed the max. speed indicated on the tIre (example MAX 22 mph / 35 km/h)
- do not exceed the permited maximum distance in one hour indicated in the following pages
- at the time of fitting, it is vital that the various markings be checked, in order to be certain that the tire is suitable for operation at the maximum allowed vehicle speed and load.

MICHELIN® RADIAL TIRES FOR MECHANICAL HANDLING

INDUSTRIAL USE
(Forklift Trucks - Tractors - Straddle Carriers - Sweepers - Airport Ground Support)

XZM STABIL'X standard profile

XZM and XZM STABIL'X low profile

XZM2 STABIL'X

XZR

X STACKER STABIL'X

X TERMINAL-T

X-STRADDLE

OTHER MICHELIN® RADIAL TIRES USED FOR MECHANICAL HANDLING

CONDITIONS OF USE

The range of Michelin® industrial tires has been specifically designed to equip industrial machines.
The sizes are specific to these machines and their work; the loads and speeds correspond to standardized figures.

Each time tires need to be fitted to mechanical handling equipment, the following rules should be followed:

1) When the tire size exists in the industrial tire range, the industrial tire must be used.
2) When the tire size does not exist in the industrial tire range, look for a tire from other tire ranges (e.g.: Agriculture, Truck or Earthmover) ensuring that the condition of use (speed, load, kilometers per hour, etc.) are compatible with the characteristics of the tire chosen. This can result in certain tires not being recommended for some uses.
3) Use of agriculture, truck or earthmover tires in mechanical handling conditions follow different rules than those normally applied to these tires (speed, load, pressure).
   In order to use these tires in total safety consult Michelin® Earthmover department for the best advice.

SELECTION OF THE TYPE OF EARTHMOVER TIRE

Unless operating conditions are exceptional (long travel distances, high speeds), type A tread compound is generally best suited.

Type of tire	D1	D2
Maximum laden speed, km/h (mph)	**20 km/h** (12.5 mph)	**15 km/h** (9 mph)
Maximum number of km (miles) allowed in one hour	**14 km** (8.7 miles) and **22 km** (13.7 miles)*	**10 km** (6.2 miles)

* as a function of tire and tread compound types (see tire characteristics in the Michelin® Earthmover tIre technical data book)

MAXIMUM LOAD CAPACITY, MAXIMUM SPEED, INFLATION PRESSURE

Define the type of ground: rough terrain or level made-up surface. Determine the maximum load per tire.
As a general rule, use the inflation pressure corresponding to the maximum load authorised for the given speed.
Please consult Michelin® Earthmover Department for advice if in doubt.
For more information, consult Earthmover technical databooks.

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **Types** CAI (Part Number)	Max. dist. / hour **km** *Miles*	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (1) Michelin® dimensions						**Measuring Rim** Approved Rims (2) - (3)	Tubeless Bead Seal (3)	Tube Type Ref. Flap (4)
		e	D	E	e	D	R'	RC	Tread depth	Cap.			
		mm	**mm**	**mm**	**mm**	**mm**	**mm**	**mm**	**mm**	**l**			
		inches	*inches*	*inches*	*inches*	*inches*	*inches*	*inches*	*32nd*	*gallon*			
8"													
5.00 R 8 Tubeless													
XZM STABIL'X **111 A5** 110208 (10)	**15** *9.3*	**143** *5.6*	**476** *18.7*	**162** *6.4*	**137** *5.4*	**463** *18.2*	**213** *8.4*	**1407** *55.4*	**23** *29*	**9** *2*	3.00D **3 1/4 l**	80TL8	8 CG 83-8 L
180/70 R 8 Tubeless													
XZM **125 A5** 110069 (10)	**15** *9.3*	**182** *7.2*	**465** *18.3*	**199** *7.8*	**170** *6.7*	**454** *17.9*	**205** *8.1*	**1371** *54*	**19** *23.9*	**11** *3*	**4.33 R**	100TL8 110TL8	8 D 5-8

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread type	Use	Max. speed	PRESSURE (Bar/PSI)									Size
			6.0	**6.5**	**7.0**	**7.5**	**8.0**	**8.5**	**9.0**	**9.5**	**10.0**	
			87	*94*	*102*	*109*	*116*	*123*	*131*	*138*	*145*	
8"												
XZM STABIL'X	**Forklift trucks**											**5.00 R 8**
	Drive axle	**25 km/h**	**1060**	**1100**	**1140**	**1185**	**1230**	**1275**	**1320**	**1370**	**1420**	
		15 mph	2337	2426	2514	2613	2712	2811	2911	3021	3131	
		35 km/h	**1020**	**1055**	**1090**	**1135**	**1180**	**1225**	**1270**	**1320**	**1370**	
		22 mph	2249	2326	2403	2503	2602	2701	2800	2911	3021	
	Steer wheel	**25 km/h**	**810**	**840**	**870**	**905**	**940**	**975**	**1010**	**1050**	**1090**	
		15 mph	1786	1852	1918	1996	2073	2150	2227	2315	2403	
		35 km/h	**750**	**780**	**810**	**840**	**870**	**905**	**940**	**975**	**1010**	
		22 mph	1654	1720	1786	1852	1918	1996	2073	2150	2227	
XZM STABIL'X	**Side-loaders**											
	All axles	Static	**1230**	**1275**	**1320**	**1370**	**1420**	**1475**	**1530**	**1590**	**1650**	
			2712	2811	2911	3021	3131	3252	3374	3506	3638	
		25 km/h	**810**	**840**	**870**	**905**	**940**	**975**	**1010**	**1050**	**1090**	
		15 mph	1786	1852	1918	1996	2073	2150	2227	2315	2403	
		35 km/h	**750**	**780**	**810**	**840**	**870**	**905**	**940**	**975**	**1010**	
		22 mph	1654	1720	1786	1852	1918	1996	2073	2150	2227	
XZM	**Forklift trucks**											**180/70 R 8**
	Drive axle	**25 km/h**	**1630**	**1695**	**1760**	**1825**	**1890**	**1955**	**2020**	**2085**	**2150**	
		15 mph	3594	3737	3881	4024	4167	4311	4454	4597	4741	
		35 km/h	**1570**	**1630**	**1690**	**1755**	**1820**	**1880**	**1940**	**2005**	**2070**	
		22 mph	3462	3594	3726	3870	4013	4145	4278	4421	4564	
	Steer wheel	**25 km/h**	**1250**	**1300**	**1350**	**1400**	**1450**	**1500**	**1550**	**1600**	**1650**	
		15 mph	2756	2867	2977	3087	3197	3308	3418	3528	3638	
		35 km/h	**1160**	**1205**	**1250**	**1300**	**1350**	**1395**	**1440**	**1485**	**1530**	
		22 mph	2558	2657	2756	2867	2977	3076	3175	3274	3374	
XZM	**Side-loaders**											
	All axles	Static	**1890**	**1965**	**2040**	**2115**	**2190**	**2270**	**2350**	**2425**	**2500**	
			4167	4333	4498	4664	4829	5005	5182	5347	5513	
		25 km/h	**1250**	**1300**	**1350**	**1400**	**1450**	**1500**	**1550**	**1600**	**1650**	
		15 mph	2756	2867	2977	3087	3197	3308	3418	3528	3638	
		35 km/h	**1160**	**1205**	**1250**	**1300**	**1350**	**1395**	**1440**	**1485**	**1530**	
		22 mph	2558	2657	2756	2867	2977	3076	3175	3274	3374	

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **Types** CAI (Part Number)	Max. dist. / hour **km** *Miles*	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (1) Michelin® dimensions						**Measuring Rim** Approved Rims (2) - (3)	Tubeless Bead Seal (3)	Tube Type Ref. Flap (4)
		e	D	E	e	D	R'	RC	Tread depth	Cap.			
		mm *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *inches*	**mm** *32nd*	**l** *gallon*			
9"													
6.00 R 9 Tubeless													
XZM STABIL'X **121 A5** 110204 (10)	**15** *9.3*	**173** *6.8*	**551** *21.7*	**192** *7.6*	**164** *6.5*	**539** *21.2*	**249** *9.8*	**1641** *64.6*	**24** *30.2*	**15** *4*	**4.00E**	100TL9	9 F
XZR **121 A5** 110206	**25** *16*					**530** *20.9*	**241** *9*	**1605** *63*	**10** *12.6*	**18** *4.75*			110-9 LD

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread type	Use	Max. speed	PRESSURE (Bar/PSI)									Size
			6.0	**6.5**	**7.0**	**7.5**	**8.0**	**8.5**	**9.0**	**9.5**	**10.0**	
			87	*94*	*102*	*109*	*116*	*123*	*131*	*138*	*145*	
9"												
XZM STABIL'X	**Forklift trucks**											
	Drive axle	**25 km/h**	**1370**	**1435**	**1500**	**1565**	**1630**	**1695**	**1760**	**1825**	**1890**	
		15 mph	3021	3164	3308	3451	3594	3737	3881	4024	4167	
		35 km/h	**1320**	**1380**	**1440**	**1505**	**1570**	**1630**	**1690**	**1755**	**1820**	
		22 mph	2911	3043	3175	3319	3462	3594	3726	3870	4013	
	Steer wheel	**25 km/h**	**1050**	**1100**	**1150**	**1200**	**1250**	**1300**	**1350**	**1400**	**1450**	
		15 mph	2315	2426	2536	2646	2756	2867	2977	3087	3197	
		35 km/h	**980**	**1025**	**1070**	**1115**	**1160**	**1205**	**1250**	**1300**	**1350**	
		22 mph	2161	2260	2359	2459	2558	2657	2756	2867	2977	
XZM STABIL'X	**Side-loaders**											
	All axles	Static	**1590**	**1665**	**1740**	**1815**	**1890**	**1965**	**2040**	**2115**	**2190**	
			3506	3671	3837	4002	4167	4333	4498	4664	4829	
		25 km/h	**1050**	**1100**	**1150**	**1200**	**1250**	**1300**	**1350**	**1400**	**1450**	
		15 mph	2315	2426	2536	2646	2756	2867	2977	3087	3197	
		35 km/h	**980**	**1025**	**1070**	**1115**	**1160**	**1205**	**1250**	**1300**	**1350**	
		22 mph	2161	2260	2359	2459	2558	2657	2756	2867	2977	
XZR	Mechanical handling	Static	**1590**	**1665**	**1740**	**1815**	**1890**	**1965**	**2040**	**2115**	**2190**	
			3506	3671	3837	4002	4167	4333	4498	4664	4829	
		10 km/h	**1370**	**1435**	**1500**	**1565**	**1630**	**1695**	**1760**	**1825**	**1890**	
		6 mph	3021	3164	3308	3451	3594	3737	3881	4024	4167	
		25 km/h	**1050**	**1100**	**1150**	**1200**	**1250**	**1300**	**1350**	**1400**	**1450**	
		15 mph	2315	2426	2536	2646	2756	2867	2977	3087	3197	
		35 km/h	**980**	**1025**	**1070**	**1115**	**1160**	**1205**	**1250**	**1300**	**1350**	
		22 mph	2161	2260	2359	2459	2558	2657	2756	2867	2977	
		40 km/h	**940**	**980**	**1030**	**1070**	**1120**	**1160**	**1210**	**1250**	**1300**	
		25 mph	2073	2161	2271	2359	2470	2558	2668	2756	2867	
		50 km/h	**890**	**920**	**970**	**1010**	**1050**	**1100**	**1140**	**1180**	**1220**	
		31 mph	1962	2029	2139	2227	2315	2426	2514	2602	2690	

6.00 R 9

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **Types** CAI (Part Number)	Max. dist. / hour **km** *Miles*	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (1) Michelin® dimensions						**Measuring Rim** Approved Rims (2) - (3)	Tubeless Bead Seal (3)	Tube Type Ref. Flap (4)
		e	D	E	e	D	R'	RC	Tread depth	Cap.			
		mm	**mm**	**mm**	**mm**	**mm**	**mm**	**mm**	**mm**	**l**			
		inches	*inches*	*inches*	*inches*	*inches*	*inches*	*inches*	*32nd*	*gallon*			
10"													
6.50 R 10 Tubeless													
XZM STABIL'X **128 A5** 110213 (10)	**15** *9.3*	**191** *7.5*	**600** *23.6*	**212** *8.3*	**186** *7.3*	**587** *23.1*	**271** *10.7*	**1786** *70.3*	**27** *34*	**20** *5*	**5.00F** 5.50F	125TL10	10 F 150-10 LD
225/75 R 10 Tubeless													
XZM **142 A5** 110089 (10)	**15** *9.3*	**239** *9.4*	**606** *23.9*	**259** *10.2*	**220** *8.7*	**591** *23.3*	**265** *10.4*	**1779** *70*	**24** *30.2*	**25** *7*	**6.50F**	165TL10	10 F 7-10

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread type	Use	Max. speed	PRESSURE (Bar/PSI)									Size
			6.0	**6.5**	**7.0**	**7.5**	**8.0**	**8.5**	**9.0**	**9.5**	**10.0**	
			87	*94*	*102*	*109*	*116*	*123*	*131*	*138*	*145*	
10"												
XZM STABIL'X	**Forklift trucks**											**6.50 R 10**
	Drive axle	**25 km/h**	**1660**	**1740**	**1820**	**1905**	**1990**	**2075**	**2160**	**2250**	**2340**	
		15 mph	3660	3837	4013	4201	4388	4575	4763	4961	5160	
		35 km/h	**1600**	**1675**	**1750**	**1830**	**1910**	**1995**	**2080**	**2165**	**2250**	
		22 mph	3528	3693	3859	4035	4212	4399	4586	4774	4961	
	Steer wheel	**25 km/h**	**1280**	**1340**	**1400**	**1465**	**1530**	**1595**	**1660**	**1730**	**1800**	
		15 mph	2822	2955	3087	3230	3374	3517	3660	3815	3969	
		35 km/h	**1180**	**1240**	**1300**	**1360**	**1420**	**1480**	**1540**	**1605**	**1670**	
		22 mph	2602	2734	2867	2999	3131	3263	3396	3539	3682	
XZM STABIL'X	**Side-loaders**											
	All axles	Static	**1930**	**2025**	**2120**	**2215**	**2310**	**2410**	**2510**	**2615**	**2720**	
			4256	4465	4675	4884	5094	5314	5535	5766	5998	
		25 km/h	**1280**	**1340**	**1400**	**1465**	**1530**	**1595**	**1660**	**1730**	**1800**	
		15 mph	2822	2955	3087	3230	3374	3517	3660	3815	3969	
		35 km/h	**1180**	**1240**	**1300**	**1360**	**1420**	**1480**	**1540**	**1605**	**1670**	
		22 mph	2602	2734	2867	2999	3131	3263	3396	3539	3682	
XZM	**Forklift trucks**											**225/75 R 10**
	Drive axle	**25 km/h**	**2410**	**2550**	**2690**	**2825**	**2960**	**3085**	**3210**	**3330**	**3450**	
		15 mph	5314	5623	5931	6229	6527	6802	7078	7343	7607	
		35 km/h	**2320**	**2455**	**2590**	**2715**	**2840**	**2965**	**3090**	**3205**	**3320**	
		22 mph	5116	5413	5711	5987	6262	6538	6813	7067	7321	
	Steer wheel	**25 km/h**	**1850**	**1960**	**2070**	**2170**	**2270**	**2370**	**2470**	**2560**	**2650**	
		15 mph	4079	4322	4564	4785	5005	5226	5446	5645	5843	
		35 km/h	**1720**	**1820**	**1920**	**2010**	**2100**	**2195**	**2290**	**2375**	**2460**	
		22 mph	3793	4013	4234	4432	4631	4840	5049	5237	5424	
XZM	**Side-loaders**											
	All axles	Static	**2800**	**2960**	**3120**	**3275**	**3430**	**3580**	**3730**	**3870**	**4010**	
			6174	6527	6880	7221	7563	7894	8225	8533	8842	
		25 km/h	**1850**	**1960**	**2070**	**2170**	**2270**	**2370**	**2470**	**2560**	**2650**	
		15 mph	4079	4322	4564	4785	5005	5226	5446	5645	5843	
		35 km/h	**1720**	**1820**	**1920**	**2010**	**2100**	**2195**	**2290**	**2375**	**2460**	
		22 mph	3793	4013	4234	4432	4631	4840	5049	5237	5424	

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **Types** CAI (Part Number)	Max. dist. / hour **km** *Miles*	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (1) Michelin® dimensions						**Measuring Rim** Approved Rims (2) - (3)	Tubeless Bead Seal (3)	Tube Type Ref. Flap (4)
		e	D	E	e	D	R'	RC	Tread depth	Cap.			
		mm	**mm**	**mm**	**mm**	**mm**	**mm**	**mm**	**mm**	**l**			
		inches	*inches*	*inches*	*inches*	*inches*	*inches*	*inches*	*32nd*	*gallon*			
12"													
7.00 R 12 Tubeless													
XZM STABIL'X **136 A5** 110195 (10)	**15** *9.3*	**207** *8.1*	**685** *27*	**230** *9.1*	**196** *7.7*	**671** *26.4*	**310** *12.2*	**2043** *80.4*	**28** *35.3*	**24** *6*	**5.00S**	125TL12	12 H
XZR **136 A5** 110210	**25** *16*				**193** *7.6*	**661** *26*	**303** *12*	**2006** *79*	**11** *13.9*	**32** *8.45*			125-12 LD

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread type	Use	Max. speed	PRESSURE (Bar/PSI)									Size
			6.0	**6.5**	**7.0**	**7.5**	**8.0**	**8.5**	**9.0**	**9.5**	**10.0**	
			87	*94*	*102*	*109*	*116*	*123*	*131*	*138*	*145*	
12"												
XZR XZM STABIL'X	**Forklift trucks**											
	Drive axle	**25 km/h**	**1990**	**2075**	**2160**	**2265**	**2370**	**2505**	**2640**	**2780**	**2920**	
		15 mph	4388	4575	4763	4994	5226	5524	5821	6130	6439	
		35 km/h	**1920**	**2000**	**2080**	**2180**	**2280**	**2410**	**2540**	**2670**	**2800**	
		22 mph	4234	4410	4586	4807	5027	5314	5601	5887	6174	
	Steer wheel	**25 km/h**	**1530**	**1595**	**1660**	**1740**	**1820**	**1925**	**2030**	**2135**	**2240**	
		15 mph	3374	3517	3660	3837	4013	4245	4476	4708	4939	
		35 km/h	**1420**	**1480**	**1540**	**1615**	**1690**	**1785**	**1880**	**1980**	**2080**	
		22 mph	3131	3263	3396	3561	3726	3936	4145	4366	4586	
XZM STABIL'X	**Side-loaders**											
	All axles	Static	**2320**	**2415**	**2510**	**2630**	**2750**	**2910**	**3070**	**3230**	**3390**	
			5116	5325	5535	5799	6064	6417	6769	7122	7475	
		25 km/h	**1530**	**1595**	**1660**	**1740**	**1820**	**1925**	**2030**	**2135**	**2240**	
		15 mph	3374	3517	3660	3837	4013	4245	4476	4708	4939	
		35 km/h	**1420**	**1480**	**1540**	**1615**	**1690**	**1785**	**1880**	**1980**	**2080**	
		22 mph	3131	3263	3396	3561	3726	3936	4145	4366	4586	
XZR	Mechanical handling	Static	**2320**	**2415**	**2510**	**2630**	**2750**	**2910**	**3070**	**3230**	**3390**	
			5116	5325	5535	5799	6064	6417	6769	7122	7475	
		10 km/h	**1990**	**2075**	**2160**	**2265**	**2370**	**2505**	**2640**	**2780**	**2920**	
		6 mph	4388	4575	4763	4994	5226	5524	5821	6130	6439	
		25 km/h	**1530**	**1595**	**1660**	**1740**	**1820**	**1925**	**2030**	**2135**	**2240**	
		15 mph	3374	3517	3660	3837	4013	4245	4476	4708	4939	
		35 km/h	**1420**	**1480**	**1540**	**1615**	**1690**	**1785**	**1880**	**1980**	**2080**	
		22 mph	3131	3263	3396	3561	3726	3936	4145	4366	4586	
		40 km/h	**1370**	**1420**	**1480**	**1550**	**1620**	**1720**	**1810**	**1900**	**2000**	
		25 mph	2073	3131	3263	3418	3572	3793	3991	4190	4410	
		50 km/h	**1290**	**1340**	**1400**	**1470**	**1530**	**1620**	**1710**	**1800**	**1890**	
		31 mph	2844	2955	3087	3241	3374	3572	3771	3969	4167	

7.00 R 12

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **Types** CAI (Part Number)	Max. dist. / hour **km** *Miles*	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (1) Michelin® dimensions						**Measuring Rim** Approved Rims (2) - (3)	Tubeless Bead Seal (3)	Tube Type Ref. Flap (4)
		e	D	E	e	D	R'	RC	Tread depth	Cap.			
		mm	**mm**	**mm**	**mm**	**mm**	**mm**	**mm**	**mm**	**l**			
		inches	*inches*	*inches*	*inches*	*inches*	*inches*	*inches*	*32nd*	*gallon*			
12"													
250/75 R 12 Tubeless													
XZM152 A5 110108 (10)	**15** *9.3*	**274** *10.8*	**695** *27.4*	**294** *11.6*	**256** *10.1*	**688** *27.1*	**313** *12.3*	**2084** *82*	**28** *35.3*	**38** *10*	**8.00G**	200TL12	12 KD 9-12 D
15"													
7.00 R 15 Tubeless													
XZM STABIL'X 143 A5 110211 (10)	**15** *9.3*	**213** *8.4*	**761** *30*	**236** *9.3*	**196** *7.7*	**733** *28.9*	**340** *13.4*	**2235** *88*	**28** *35.3*	**30** *8*	**5.5** 6.0	140TL15 150TL15	15/16 F 15x6.00
7.50 R 15 Tubeless													
XZM STABIL'X 146 A5 110214 (10)	**15** *9.3*	**229** *9*	**787** *31*	**254** *10*	**212** *8.3*	**771** *30.4*	**358** *14.1*	**2352** *92.6*	**30** *37.8*	**38** *10*	**6.0** 6.5	165TL15 150TL15	15/16 J 15x6.00

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread type	Use	Max. speed	PRESSURE (Bar/PSI)									Size
			6.0	**6.5**	**7.0**	**7.5**	**8.0**	**8.5**	**9.0**	**9.5**	**10.0**	
			87	*94*	*102*	*109*	*116*	*123*	*131*	*138*	*145*	
12"												
XZM	**Forklift trucks**											**250/75 R 12**
	Drive axle	**25 km/h**	**3220**	**3400**	**3580**	**3755**	**3930**	**4100**	**4270**	**4445**	**4620**	
		15 mph	7100	7497	7894	8280	8666	9041	9415	9801	10187	
		35 km/h	**3090**	**3265**	**3440**	**3610**	**3780**	**3940**	**4100**	**4270**	**4440**	
		22 mph	6813	7199	7585	7960	8335	8688	9041	9415	9790	
	Steer wheel	**25 km/h**	**2470**	**2610**	**2750**	**2885**	**3020**	**3150**	**3280**	**3415**	**3550**	
		15 mph	5446	5755	6064	6361	6659	6946	7232	7530	7828	
		35 km/h	**2290**	**2420**	**2550**	**2675**	**2800**	**2920**	**3040**	**3165**	**3290**	
		22 mph	5049	5336	5623	5898	6174	6439	6703	6979	7254	
XZM	**Side-loaders**											
	All axles	Static	**3730**	**3945**	**4160**	**4365**	**4570**	**4765**	**4960**	**5165**	**5370**	
			8225	8699	9173	9625	10077	10507	10937	11389	11841	
		25 km/h	**2470**	**2610**	**2750**	**2885**	**3020**	**3150**	**3280**	**3415**	**3550**	
		15 mph	5446	5755	6064	6361	6659	6946	7232	7530	7828	
		35 km/h	**2290**	**2420**	**2550**	**2675**	**2800**	**2920**	**3040**	**3165**	**3290**	
		22 mph	5049	5336	5623	5898	6174	6439	6703	6979	7254	
15"												
XZM STABIL'X	**Forklift trucks**											**7.00 R 15**
	Drive axle	**25 km/h**	**2450**	**2545**	**2640**	**2740**	**2840**	**2935**	**3030**	**3140**	**3250**	
		15 mph	5402	5612	5821	6042	6262	6472	6681	6924	7166	
		35 km/h	**2350**	**2445**	**2540**	**2635**	**2730**	**2825**	**2920**	**3025**	**3130**	
		22 mph	5182	5391	5601	5810	6020	6229	6439	6670	6902	
	Steer wheel	**25 km/h**	**1880**	**1955**	**2030**	**2105**	**2180**	**2255**	**2330**	**2415**	**2500**	
		15 mph	4145	4311	4476	4642	4807	4972	5138	5325	5513	
		35 km/h	**1740**	**1810**	**1880**	**1950**	**2020**	**2090**	**2160**	**2240**	**2320**	
		22 mph	3837	3991	4145	4300	4454	4608	4763	4939	5116	
XZM STABIL'X	**Side-loaders**											
	All axles	Static	**2840**	**2955**	**3070**	**3185**	**3300**	**3410**	**3520**	**3650**	**3780**	
			1880	1955	2030	2105	2180	2255	2330	2415	2500	
		25 km/h	**4145**	**4311**	**4476**	**4642**	**4807**	**4972**	**5138**	**5325**	**5513**	
		15 mph	1740	1810	1880	1950	2020	2090	2160	2240	2320	
		35 km/h	**3837**	**3991**	**4145**	**4300**	**4454**	**4608**	**4763**	**4939**	**5116**	
		22 mph	3131	3263	3396	3561	3726	3936	4145	4366	4586	
XZM STABIL'X	**Forklift trucks**											**7.50 R 15**
	Drive axle	**25 km/h**	**2840**	**2980**	**3120**	**3250**	**3380**	**3510**	**3640**	**3770**	**3900**	
		15 mph	6262	6571	6880	7166	7453	7740	8026	8313	8600	
		35 km/h	**2730**	**2865**	**3000**	**3125**	**3250**	**3375**	**3500**	**3625**	**3750**	
		22 mph	6020	6317	6615	6891	7166	7442	7718	7993	8269	
	Steer wheel	**25 km/h**	**2180**	**2290**	**2400**	**2500**	**2600**	**2700**	**2800**	**2900**	**3000**	
		15 mph	4807	5049	5292	5513	5733	5954	6174	6395	6615	
		35 km/h	**2020**	**2120**	**2220**	**2315**	**2410**	**2500**	**2590**	**2685**	**2780**	
		22 mph	4454	4675	4895	5105	5314	5513	5711	5920	6130	
XZM STABIL'X	**Side-loaders**											
	All axles	Static	**3300**	**3465**	**3630**	**3780**	**3930**	**4080**	**4230**	**4380**	**4530**	
			7277	7640	8004	8335	8666	8996	9327	9658	9989	
		25 km/h	**2180**	**2290**	**2400**	**2500**	**2600**	**2700**	**2800**	**2900**	**3000**	
		15 mph	4807	5049	5292	5513	5733	5954	6174	6395	6615	
		35 km/h	**2020**	**2120**	**2220**	**2315**	**2410**	**2500**	**2590**	**2685**	**2780**	
		22 mph	4454	4675	4895	5105	5314	5513	5711	5920	6130	

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **Types** CAI (Part Number)	Max. dist. / hour **km** *Miles*	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (1) Michelin® dimensions						**Measuring Rim** Approved Rims (2) - (3)	Tubeless Bead Seal (3)	Tube Type Ref. Flap (4)
		e	D	E	e	D	R'	RC	Tread depth	Cap.			
		mm	**mm**	**mm**	**mm**	**mm**	**mm**	**mm**	**mm**	**l**			
		inches	*inches*	*inches*	*inches*	*inches*	*inches*	*inches*	*32nd*	*gallon*			
15"													
8.25 R 15 Tubeless													
XZM STABIL'X **153 A5** 110218 (10)	**15** *9.3*	**253** *10*	**853** *33.6*	**280** *11*	**240** *9.4*	**835** *32.9*	**386** *15.2*	**2543** *100.1*	**33** *41.6*	**46** *12*	**6.5** 7.0	175TL15 165TL15	15 K 15x7.50 15x6.00
225/75 R 15 Tubeless													
XZM **149 A5** 110079 (10)	**15** *9.3*	**245** *9.6*	**732** *28.8*	**248** *9.8*	**225** *8.9*	**708** *27.9*	**322** *12.7*	**2144** *84.4*	**25** *31.5*	**34** *9*	**7.0**	175TL15	15/16 F 15x7.50
250/70 R 15 Tubeless													
XZM **153 A5** 110075 (10)	**15** *9.3*	**264** *10.4*	**745** *29.3*	**288** *11.3*	**250** *9.8*	**736** *29*	**333** *13.1*	**2224** *87.6*	**28** *35.3*	**39** *10*	7.0 **7.5**	175TL15 190TL15	15/16 J 15x7.50

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread type	Use	Max. speed	PRESSURE (Bar/PSI)									Size
			6.0	**6.5**	**7.0**	**7.5**	**8.0**	**8.5**	**9.0**	**9.5**	**10.0**	
			87	*94*	*102*	*109*	*116*	*123*	*131*	*138*	*145*	
15"												
XZM STABIL'X	**Forklift trucks**											**8.25 R 15**
	Drive axle	**25 km/h**	**3450**	**3610**	**3770**	**3935**	**4100**	**4260**	**4420**	**4585**	**4750**	
		15 mph	7607	7960	8313	8677	9041	9393	9746	10110	10474	
		35 km/h	**3320**	**3475**	**3630**	**3785**	**3940**	**4095**	**4250**	**4410**	**4570**	
		22 mph	7321	7662	8004	8346	8688	9029	9371	9724	10077	
	Steer wheel	**25 km/h**	**2650**	**2775**	**2900**	**3025**	**3150**	**3275**	**3400**	**3525**	**3650**	
		15 mph	5843	6119	6395	6670	6946	7221	7497	7773	8048	
		35 km/h	**2460**	**2575**	**2690**	**2805**	**2920**	**3035**	**3150**	**3265**	**3380**	
		22 mph	5424	5678	5931	6185	6439	6692	6946	7199	7453	
XZM STABIL'X	**Side-loaders**											
	All axles	Static	**4010**	**4195**	**4380**	**4570**	**4760**	**4950**	**5140**	**5330**	**5520**	
			8842	9250	9658	10077	10496	10915	11334	11753	12172	
		25 km/h	**2650**	**2775**	**2900**	**3025**	**3150**	**3275**	**3400**	**3525**	**3650**	
		15 mph	5843	6119	6395	6670	6946	7221	7497	7773	8048	
		35 km/h	**2460**	**2575**	**2690**	**2805**	**2920**	**3035**	**3150**	**3265**	**3380**	
		22 mph	5424	5678	5931	6185	6439	6692	6946	7199	7453	
XZM	**Forklift trucks**											**225/75 R 15**
	Drive axle	**25 km/h**	**2990**	**3155**	**3320**	**3480**	**3640**	**3790**	**3940**	**4085**	**4230**	
		15 mph	6593	6957	7321	7673	8026	8357	8688	9007	9327	
		35 km/h	**2880**	**3035**	**3190**	**3345**	**3500**	**3645**	**3790**	**3930**	**4070**	
		22 mph	6350	6692	7034	7376	7718	8037	8357	8666	8974	
	Steer wheel	**25 km/h**	**2300**	**2425**	**2550**	**2675**	**2800**	**2915**	**3030**	**3140**	**3250**	
		15 mph	5072	5347	5623	5898	6174	6428	6681	6924	7166	
		35 km/h	**2130**	**2245**	**2360**	**2475**	**2590**	**2695**	**2800**	**2905**	**3010**	
		22 mph	4697	4950	5204	5457	5711	5942	6174	6406	6637	
XZM	**Side-loaders**											
	All axles	Static	**3480**	**3670**	**3860**	**4045**	**4230**	**4400**	**4570**	**4740**	**4910**	
			7673	8092	8511	8919	9327	9702	10077	10452	10827	
		25 km/h	**2300**	**2425**	**2550**	**2675**	**2800**	**2915**	**3030**	**3140**	**3250**	
		15 mph	5072	5347	5623	5898	6174	6428	6681	6924	7166	
		35 km/h	**2130**	**2245**	**2360**	**2475**	**2590**	**2695**	**2800**	**2905**	**3010**	
		22 mph	4697	4950	5204	5457	5711	5942	6174	6406	6637	
XZM	**Forklift trucks**											**250/70 R 15**
	Drive axle	**25 km/h**	**3250**	**3440**	**3630**	**3825**	**4020**	**4205**	**4390**	**4570**	**4750**	
		15 mph	7166	7585	8004	8434	8864	9272	9680	10077	10474	
		35 km/h	**3130**	**3310**	**3490**	**3680**	**3870**	**4045**	**4220**	**4395**	**4570**	
		22 mph	6902	7299	7695	8114	8533	8919	9305	9691	10077	
	Steer wheel	**25 km/h**	**2500**	**2645**	**2790**	**2940**	**3090**	**3230**	**3370**	**3510**	**3650**	
		15 mph	5513	5832	6152	6483	6813	7122	7431	7740	8048	
		35 km/h	**2320**	**2455**	**2590**	**2725**	**2860**	**2990**	**3120**	**3250**	**3380**	
		22 mph	5116	5413	5711	6009	6306	6593	6880	7166	7453	
XZM	**Side-loaders**											
	All axles	Static	**3780**	**4000**	**4220**	**4445**	**4670**	**4880**	**5090**	**5305**	**5520**	
			8335	8820	9305	9801	10297	10760	11223	11698	12172	
		25 km/h	**2500**	**2645**	**2790**	**2940**	**3090**	**3230**	**3370**	**3510**	**3650**	
		15 mph	5513	5832	6152	6483	6813	7122	7431	7740	8048	
		35 km/h	**2320**	**2455**	**2590**	**2725**	**2860**	**2990**	**3120**	**3250**	**3380**	
		22 mph	5116	5413	5711	6009	6306	6593	6880	7166	7453	

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **Types** CAI (Part Number)	Max. dist. / hour **km** *Miles*	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (1) Michelin® dimensions						**Measuring Rim** Approved Rims (2) - (3)	Tubeless Bead Seal (3)	Tube Type Ref. Flap (4)
		e	D	E	e	D	R'	RC	Tread depth	Cap.			
		mm	**mm**	**mm**	**mm**	**mm**	**mm**	**mm**	**mm**	**l**			
		inches	*inches*	*inches*	*inches*	*inches*	*inches*	*inches*	*32nd*	*gallon*			
15"													
315/70 R 15 Tubeless													
XZM **165 A5** 110109 (10)	**15** *9.3*	**323** *12.7*	**841** *33.1*	**345** *13.6*	**321** *12.6*	**839** *33*	**374** *14.7*	**2520** *99.2*	**35** *44.1*	**74** *20*	**8.0**	200TL15	15 P 15x7.50
355/65 R 15 Tubeless													
XZM STABIL'X **170 A5** 110462 (10) **NOTE**: If your tire has this marking: **175 A5** contact your Michelin representative for more information.	**15** *9.3*	**372** *14.6*	**861** *33.9*	**369** *14.5*	**355** *14*	**842** *33.1*	**369** *14.5*	**2515** *99*	**35** *44.1*	**83** *22*	**9.75**	250TL15	- -
20"													
9.00 R 20 Tubeless													
XZM STABIL'X **160 A5** 110185 (11)	**15** *9.3*	**279** *11*	**1038** *40.9*	**310** *12.2*	**271** *10.7*	**1033** *40.7*	**482** *19*	**3157** *124.3*	**33** *41.6*	**99** *26*	6.5 B6.5 **7.0** 7.0T B 7.0 7.33V B7.5 7.5	190TL20 175TL20 A20 553004	20 M 20x7.50

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread type	Use	Max. speed	PRESSURE (Bar/PSI)									Size
			6.0	**6.5**	**7.0**	**7.5**	**8.0**	**8.5**	**9.0**	**9.5**	**10.0**	
			87	*94*	*102*	*109*	*116*	*123*	*131*	*138*	*145*	
15"												
XZM	**Forklift trucks**											**315/70 R 15**
	Drive axle	**25 km/h**	**4620**	**4880**	**5140**	**5400**	**5660**	**5925**	**6190**	**6445**	**6700**	
		15 mph	10187	10760	11334	11907	12480	13065	13649	14211	14774	
		35 km/h	**4440**	**4690**	**4940**	**5190**	**5440**	**5695**	**5950**	**6195**	**6440**	
		22 mph	9790	10341	10893	11444	11995	12557	13120	13660	14200	
	Steer wheel	**25 km/h**	**3550**	**3750**	**3950**	**4150**	**4350**	**4555**	**4760**	**4955**	**5150**	
		15 mph	7828	8269	8710	9151	9592	10044	10496	10926	11356	
		35 km/h	**3290**	**3475**	**3660**	**3845**	**4030**	**4220**	**4410**	**4590**	**4770**	
		22 mph	7254	7662	8070	8478	8886	9305	9724	10121	10518	
XZM	**Side-loaders**											
	All axles	Static	**5370**	**5670**	**5970**	**6270**	**6570**	**6880**	**7190**	**7485**	**7780**	
			11841	12502	13164	13825	14487	15170	15854	16504	17155	
		25 km/h	**3550**	**3750**	**3950**	**4150**	**4350**	**4555**	**4760**	**4955**	**5150**	
		15 mph	7828	8269	8710	9151	9592	10044	10496	10926	11356	
		35 km/h	**3290**	**3475**	**3660**	**3845**	**4030**	**4220**	**4410**	**4590**	**4770**	
		22 mph	7254	7662	8070	8478	8886	9305	9724	10121	10518	
XZM STABIL'X	**Forklift trucks**											**355/65 R 15**
	Drive axle	**25 km/h**	**5330**	**5820**	**5920**	**6240**	**6585**	**6825**	**7085**	**7440**	**7800**	
		15 mph	11753	12833	13054	13759	14520	15049	15622	16405	17199	
		35 km/h	**5130**	**5410**	**5690**	**6000**	**6310**	**6560**	**6810**	**7160**	**7500**	
		22 mph	11312	11929	12546	13230	13914	14465	15016	15788	16538	
	Steer wheel	**25 km/h**	**4100**	**4325**	**4550**	**4800**	**5050**	**5250**	**5450**	**5725**	**6000**	
		15 mph	9041	9537	10033	10584	11135	11576	12017	12624	13230	
		35 km/h	**3800**	**4000**	**4210**	**4450**	**4670**	**4850**	**5050**	**5300**	**5550**	
		22 mph	8379	8820	9283	9812	10297	10694	11135	11687	12238	
XZM STABIL'X	**Side-loaders**											
	All axles	Static	**6190**	**6530**	**6870**	**7250**	**7630**	**7930**	**8230**	**8645**	**9060**	
			13649	14399	15148	15986	16824	17486	18147	19062	19977	
		25 km/h	**4100**	**4325**	**4550**	**4800**	**5050**	**5250**	**5450**	**5725**	**6000**	
		15 mph	9041	9537	10033	10584	11135	11576	12017	12624	13230	
		35 km/h	**3800**	**4000**	**4210**	**4450**	**4670**	**4850**	**5050**	**5300**	**5550**	
		22 mph	8379	8820	9283	9812	10297	10694	11135	11687	12238	
20"												
XZM STABIL'X	**Terminal tractor**											**9.00 R 20**
	All axles	**40 km/h**	**2850**	**2995**	**3140**	**3280**	**3420**	**3565**	**3710**	**3860**	**4010**	
		25mph	6284	6604	6924	7232	7541	7861	8181	8511	8842	
XZM STABIL'X	**Forklift trucks**											
	Drive axle	**25 km/h**	**4160**	**4375**	**4590**	**4795**	**5000**	**5210**	**5420**	**5635**	**5850**	
		15 mph	9173	9647	10121	10573	11025	11488	11951	12425	12899	
		35 km/h	**4000**	**4205**	**4410**	**4605**	**4800**	**5005**	**5210**	**5415**	**5620**	
		22 mph	8820	9272	9724	10154	10584	11036	11488	11940	12392	
	Steer wheel	**25 km/h**	**3200**	**3365**	**3530**	**3685**	**3840**	**4005**	**4170**	**4335**	**4500**	
		15 mph	7056	7420	7784	8125	8467	8831	9195	9559	9923	
		35 km/h	**2970**	**3120**	**3270**	**3415**	**3560**	**3710**	**3860**	**4015**	**4170**	
		22 mph	6549	6880	7210	7530	7850	8181	8511	8853	9195	
XZM STABIL'X	**Side-loaders**											
	All axles	Static	**4840**	**5085**	**5330**	**5565**	**5800**	**6045**	**6290**	**6545**	**6800**	
			10672	11212	11753	12271	12789	13329	13869	14432	14994	
		25 km/h	**3200**	**3365**	**3530**	**3685**	**3840**	**4005**	**4170**	**4335**	**4500**	
		15 mph	7056	7420	7784	8125	8467	8831	9195	9559	9923	
		35 km/h	**2970**	**3120**	**3270**	**3415**	**3560**	**3710**	**3860**	**4015**	**4170**	
		22 mph	6549	6880	7210	7530	7850	8181	8511	8853	9195	

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **Types** CAI (Part Number)	Max. dist. / hour **km** *Miles*	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (1) Michelin® dimensions						**Measuring Rim** Approved Rims (2) - (3)	Tubeless Bead Seal (3)	Tube Type Ref. Flap (4)
		e	D	E	e	D	R'	RC	Tread depth	Cap.			
		mm	**mm**	**mm**	**mm**	**mm**	**mm**	**mm**	**mm**	**l**			
		inches	*inches*	*inches*	*inches*	*inches*	*inches*	*inches*	*32nd*	*gallon*			
20"													
10.00 R 20 Tubeless													
XZM STABIL'X **166 A5** 110014 (11)	**15** *9.3*	**297** *11.7*	**1073** *42.2*	**330** *13*	**295** *11.6*	**1068** *42*	**495** *19.5*	**3257** *128.2*	**35** *44.1*	**117** *31*	7.0 7.0T B 7.0 7.33V B 7.5 **7.5** 8.0V 8.00V B 8.0 8.0	190TL20 200TL20 175TL20 A20 553004	20 N 20x7.50
11.00 R 20 Tubeless													
XZM STABIL'X **169 A5** 110189 (11)	**15** *9.3*	**309** *12.2*	**1104** *43.5*	**343** *13.5*	**294** *11.6*	**1092** *43*	**504** *19.8*	**3325** *130.9*	**38** *47.9*	**124** *33*	7.33V B7.5 7.5 8.0V 8.00V B 8.0 **8.0** 8.5V 8.5 8.5 -8.5V B 8.5 8.50V	190TL20 200TL20 215TL20 A20 553004	20 P 20x8.50

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread type	Use	Max. speed	PRESSURE (Bar/PSI)									Size
			6.0	**6.5**	**7.0**	**7.5**	**8.0**	**8.5**	**9.0**	**9.5**	**10.0**	
			87	*94*	*102*	*109*	*116*	*123*	*131*	*138*	*145*	
20"												
XZM STABIL'X	**Terminal tractor**											10.00 R 20
	All axles	**40 km/h**	**3390**	**3550**	**3710**	**3875**	**4040**	**4205**	**4370**	**4545**	**4720**	
		25 mph	7475	7828	8181	8544	8908	9272	9636	10022	10408	
XZM STABIL'X	**Forklift trucks**											
	Drive axle	**25 km/h**	**4940**	**5175**	**5410**	**5650**	**5890**	**6135**	**6385**	**6635**	**6890**	
		15 mph	10893	11411	11929	12458	12987	13528	14079	14630	15192	
		35 km/h	**4750**	**4975**	**5200**	**5430**	**5660**	**5895**	**6130**	**6380**	**6630**	
		22 mph	10474	10970	11466	11973	12480	12998	13517	14068	14619	
	Steer wheel	**25 km/h**	**3800**	**3980**	**4160**	**4345**	**4530**	**4720**	**4910**	**5105**	**5300**	
		15 mph	8379	8776	9173	9581	9989	10408	10827	11257	11687	
		35 km/h	**3520**	**3685**	**3850**	**4025**	**4200**	**4375**	**4550**	**4730**	**4910**	
		22 mph	7762	8125	8489	8875	9261	9647	10033	10430	10827	
XZM STABIL'X	**Side-loaders**											
	All axles	Static	**5740**	**6015**	**6290**	**6570**	**6850**	**7135**	**7420**	**7715**	**8010**	
			12657	13263	13869	14487	15104	15733	16361	17012	17662	
		25 km/h	**3800**	**3980**	**4160**	**4345**	**4530**	**4720**	**4910**	**5105**	**5300**	
		15 mph	8379	8776	9173	9581	9989	10408	10827	11257	11687	
		35 km/h	**3520**	**3685**	**3850**	**4025**	**4200**	**4375**	**4550**	**4730**	**4910**	
		22 mph	7762	8125	8489	8875	9261	9647	10033	10430	10827	
XZM STABIL'X	**Terminal tractor**											11.00 R 20
	All axles	**40 km/h**	**3690**	**3870**	**4050**	**4240**	**4430**	**4615**	**4800**	**4985**	**5170**	
		25 mph	8136	8533	8930	9349	9768	10176	10584	10992	11400	
XZM STABIL'X	**Forklift trucks**											
	Drive axle	**25 km/h**	**5390**	**5655**	**5920**	**6195**	**6470**	**6740**	**7010**	**7275**	**7540**	
		15 mph	11885	12469	13054	13660	14266	14862	15457	16041	16626	
		35 km/h	**5180**	**5435**	**5690**	**5955**	**6220**	**6485**	**6750**	**7000**	**7250**	
		22 mph	11422	11984	12546	13131	13715	14299	14884	15435	15986	
	Steer wheel	**25 km/h**	**4140**	**4345**	**4550**	**4760**	**4970**	**5180**	**5390**	**5595**	**5800**	
		15 mph	9129	9581	10033	10496	10959	11422	11885	12337	12789	
		35 km/h	**3830**	**4020**	**4210**	**4405**	**4600**	**4795**	**4990**	**5180**	**5370**	
		22 mph	8445	8864	9283	9713	10143	10573	11003	11422	11841	
XZM STABIL'X	**Side-loaders**											
	All axles	Static	**6260**	**6570**	**6880**	**7195**	**7510**	**7825**	**8140**	**8450**	**8760**	
			13803	14487	15170	15865	16560	17254	17949	18632	19316	
		25 km/h	**4140**	**4345**	**4550**	**4760**	**4970**	**5180**	**5390**	**5595**	**5800**	
		15 mph	9129	9581	10033	10496	10959	11422	11885	12337	12789	
		35 km/h	**3830**	**4020**	**4210**	**4405**	**4600**	**4795**	**4990**	**5180**	**5370**	
		22 mph	8445	8864	9283	9713	10143	10573	11003	11422	11841	

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **Types** CAI (Part Number)	Max. dist. / hour **km** *Miles*	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (1) Michelin® dimensions						**Measuring Rim** Approved Rims (2) - (3)	Tubeless Bead Seal (3)	Tube Type Ref. Flap (4)
		e	D	E	e	D	R'	RC	Tread depth	Cap.			
		mm	**mm**	**mm**	**mm**	**mm**	**mm**	**mm**	**mm**	**l**			
		inches	*inches*	*inches*	*inches*	*inches*	*inches*	*inches*	*32nd*	*gallon*			
20"													
12.00 R 20 Tubeless													
XZM STABIL'X **176 A5** 110082 (11)	**15** *9.3*	**338** *13.3*	**1144** *45*	**376** *14.8*	**324** *12.8*	**1136** *44.7*	**522** *20.6*	**3453** *135.9*	**40** *50.4*	**184** *49*	8.0 8.5V **8.5** B 8.5 8.50V 9.00V 9.0	200TL20 215TL20 A20 553004	20 Q 20x8.50
22.5"													
280/75 R 22.5 Tubeless													
X-TERMINAL T **168 A8** 004371 (12)					**279** *11*	**995** *39.2*	**443** *17.4*	**2988** *117.6*	**31** *39.1*	**85** *22*	22.5/8.25 **22.5/7.50**	-	- -
310/80 R 22.5 Tubeless													
X-TERMINAL T **175 A8** 278144 (12)	**20** *12*	**310** *12.2*	**1074** *42.3*	**335** *13.2*	**307** *12.1*	**1084** *42.7*	**483** *19*	**3258** *128*	**30** *38*		**9.0**	-	- -

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread type	Use	Max. speed	PRESSURE (Bar/PSI)									Size
			6.0	**6.5**	**7.0**	**7.5**	**8.0**	**8.5**	**9.0**	**9.5**	**10.0**	
			87	*94*	*102*	*109*	*116*	*123*	*131*	*138*	*145*	
20"												
XZM STABIL'X	**Terminal tractor**											
	All axles	**40 km/h**	**4540**	**4740**	**4940**	**5185**	**5430**	**5655**	**5880**	**6100**	**6320**	
		25mph	10011	10452	10893	11433	11973	12469	12965	13451	13936	
XZM STABIL'X	**Forklift trucks**											
	Drive axle	**25 km/h**	**6630**	**6925**	**7220**	**7575**	**7930**	**8255**	**8580**	**8905**	**9230**	
		15 mph	14619	15270	15920	16703	17486	18202	18919	19636	20352	
		35 km/h	**6380**	**6660**	**6940**	**7285**	**7630**	**7940**	**8250**	**8565**	**8880**	
		22 mph	14068	14685	15303	16063	16824	17508	18191	18886	19580	
	Steer wheel	**25 km/h**	**5100**	**5325**	**5550**	**5825**	**6100**	**6350**	**6600**	**6850**	**7100**	
		15 mph	11246	11742	12238	12844	13451	14002	14553	15104	15656	
		35 km/h	**4720**	**4930**	**5140**	**5395**	**5650**	**5880**	**6110**	**6340**	**6570**	
		22 mph	10408	10871	11334	11896	12458	12965	13473	13980	14487	
XZM STABIL'X	**Side-loaders**											
	All axles	Static	**7710**	**8050**	**8390**	**8805**	**9220**	**9595**	**9970**	**10350**	**10730**	
			17001	17750	18500	19415	20330	21157	21984	22822	23660	
		25 km/h	**5100**	**5325**	**5550**	**5825**	**6100**	**6350**	**6600**	**6850**	**7100**	
		15 mph	11246	11742	12238	12844	13451	14002	14553	15104	15656	
		35 km/h	**4720**	**4930**	**5140**	**5395**	**5650**	**5880**	**6110**	**6340**	**6570**	
		22 mph	10408	10871	11334	11896	12458	12965	13473	13980	14487	
22.5"												
X-TERMINAL T	**Terminal tractor**											
	All axles	Static	**4960**	**5280**	**5600**	**5920**	**6240**	**6560**	**6870**	**7190**	**7500**	
			10937	11642	12348	13054	13759	14465	15148	15854	16538	
		25 km/h	**4200**	**4480**	**4750**	**5025**	**5300**	**5575**	**5850**	**6075**	**6300**	
		15 mph	9261	9878	10474	11080	11687	12293	12899	13395	13892	
		35 km/h	**3750**	**3980**	**4210**	**4445**	**4675**	**4905**	**5135**	**5370**	**5600**	
		22 mph	8269	8776	9283	9801	10308	10816	11323	11841	12348	
X-TERMINAL T	**Terminal tractor**											
	All axles	Static	**6890**	**7330**	**7775**	**8215**	**8655**	**9095**	**9540**	**9980**	**10420**	
			15192	16163	17144	18114	19084	20054	21036	22006	22976	
		5 km/h	**6160**	**6598**	**7035**	**7473**	**7910**	**8348**	**8785**	**9223**	**9660**	
		3 mph	13583	14549	15512	16478	17442	18407	19371	20337	21300	
		10 km/h	**5930**	**6310**	**6690**	**7070**	**7450**	**7830**	**8210**	**8590**	**8970**	
		6 mph	13076	13914	14751	15589	16427	17265	18103	18941	19779	
		25 km/h	**5080**	**5415**	**5750**	**6085**	**6420**	**6755**	**7090**	**7425**	**7760**	
		15 mph	11201	11940	12679	13417	14156	14895	15633	16372	17111	
		40 km/h	**4450**	**4750**	**5060**	**5370**	**5675**	**5980**	**6300**	**6600**	**6900**	
		25 mph	9812	10474	11157	11841	12513	13186	13892	14553	15215	

12.00 R 20

280/75 R 22.5

310/80 R 22.5

MICHELIN® TIRE CHARACTERISTICS

COMMERCIAL DESCRIPTION **Types** CAI (Part Number)	Max. dist. / hour **km** *Miles*	Standardized dimensions maximum in service			DIMENSIONAL CHARACTERISTICS (1) Michelin® dimensions						**Measuring Rim** Approved Rims (2) - (3)	Tubeless Bead Seal (3)	Tube Type Ref. / Flap (4)
		e	D	E	e	D	R'	RC	Tread depth	Cap.			
		mm	**mm**	**mm**	**mm**	**mm**	**mm**	**mm**	**mm**	**l**			
		inches	*inches*	*inches*	*inches*	*inches*	*inches*	*inches*	*32nd*	*gallon*			
24"													
12.00 R 24 Tubeless													
XZM STABIL'X **178 A5** 110296 (10)	**15** *9.3*	**338** *13.3*	**1251** *49.3*	**381** *15*	**325** *12.8*	**1238** *48.7*	**570** *22.4*	**3766** *148.3*	**40** *50.4*	**208** *55*	**8.5** B 8.5 8.50V 9.00V 9.0	-	24 Q 24/25x8.50
14.00 R 24 Tubeless													
XZM STABIL'X **193 A5** 084179 (14)	**15** *9.3*	**405** *15.9*	**1395** *54.9*	**456** *18*	**383** *15.1*	**1416** *55.7*	**641** *25.2*	**4280** *168.5*	**63** *79.4*	**247** *65*	10.00W **10.0** 10.00 WA SDC	- OR 2-25 HEUPO 553201	24/25 T 13-24/25
25"													
16.00 R 25 Tubeless													
X-STRADDLE **200 A5** 788305 (15)	**12** *7.5*	**467** *18.4*	**1522** *59.9*	**501** *19.7*	**431** *17*	**1510** *59.4*	**672** *26.5*	**4535** *178.5*	**49** *61.7*	**340** *90*	**11.25/2.0** 13.00/2.0	- OR 3-25 SULLA 553200	24/25 VAM 14-24/25
XZM STABIL'X **200 A5** 123781 (14)	**15** *9.3*			**526** *20.7*	**443** *17.4*	**1531** *60.3*	**696** *27.4*	**4634** *182.4*	**71** *89.4*	**326** *86*			
480/95 R 25 Tubeless													
X-STRADDLE **206 A5** 237120 (15)	**12** *7.5*				**477** *18.8*	**1553** *61.1*	**688** *27.1*	**4655** *183.3*	**50** *63*	**400** *106*	**13.00/2.5**	- OR 3-25 SULLA 553200	25 WAM 16-24/25
18.00 R 25 Tubeless													
XZM2 STABIL'X **207 A5** 692753 (13 - 17)	**10** *6.2*	**538** *21.2*	**1645** *64.8*	**598** *23.5*	**510** *20.1*	**1666** *65.6*	**749** *29.5*	**5020** *197.6*	**78** *98.3*	**480** *127*	**13.00/2.5** 15.00/2.5	- OR 3-25 SULLA 553200	25 WAM 16-24/25
X STACKER STABIL'X **207 A5** 545441 (16)	**5** *3.1*				**463** *18.2*		**758** *29.8*	**5045** *198.6*	**90** *113.4*	**460** *122*			

TIRE LOADS IN **KG**/LB – TIRE PRESSURES IN **BAR**/*PSI*

Tread type	Use		Max. speed	PRESSURE (Bar/PSI)									Size
				6.0	**6.5**	**7.0**	**7.5**	**8.0**	**8.5**	**9.0**	**9.5**	**10.0**	
				87	*94*	*102*	*109*	*116*	*123*	*131*	*138*	*145*	
24"													
XZM STABIL'X	**Forlift trucks / Reach stackers**												**12.00 R 24**
	Drive axle	**25 km/h**		**6630**	**7020**	**7410**	**7800**	**8190**	**8580**	**8970**	**9360**	**9750**	
		15 mph		14619	15479	16339	17199	18059	18919	19779	20639	21499	
		35 km/h		**6380**	**6755**	**7130**	**7505**	**7880**	**8255**	**8630**	**9005**	**9380**	
		22 mph		14068	14895	15722	16549	17375	18202	19029	19856	20683	
	Steer wheel	**25 km/h**		**5100**	**5400**	**5700**	**6000**	**6300**	**6600**	**6900**	**7200**	**7500**	
		15 mph		11246	11907	12569	13230	13892	14553	15215	15876	16538	
		35 km/h		**4720**	**5000**	**5280**	**5555**	**5830**	**6110**	**6390**	**6665**	**6940**	
		22 mph		10408	11025	11642	12249	12855	13473	14090	14696	15303	
XZM STABIL'X	**Side-loaders**												
	All axles	Static		**7710**	**8160**	**8610**	**9065**	**9520**	**9970**	**10420**	**10875**	**11330**	
				17001	17993	18985	19988	20992	21984	22976	23979	24983	
		25 km/h		**5100**	**5400**	**5700**	**6000**	**6300**	**6600**	**6900**	**7200**	**7500**	
		15 mph		11246	11907	12569	13230	13892	14553	15215	15876	16538	
		35 km/h		**4720**	**5000**	**5280**	**5555**	**5830**	**6110**	**6390**	**6665**	**6940**	
		22 mph		10408	11025	11642	12249	12855	13473	14090	14696	15303	
XZM STABIL'X	**Forlift trucks / Reach stackers**												**14.00 R 24**
	Drive axle	**25 km/h**		**10790**	**11330**	**11870**	**12435**	**13000**	**13520**	**14040**	**14495**	**14950**	
		15 mph		23792	24983	26173	27419	28665	29812	30958	31961	32965	
	Steer wheel	**25 km/h**		**8300**	**8715**	**9130**	**9565**	**10000**	**10400**	**10800**	**11150**	**11500**	
		15 mph		18302	19217	20132	21091	22050	22932	23814	24586	25358	
XZM STABIL'X	**Side-loaders**												
	All axles	Static		**12540**	**13160**	**13780**	**14440**	**15100**	**15705**	**16310**	**16840**	**17370**	
				27651	29018	30385	31840	33296	34630	35964	37132	38301	
		25 km/h		**8300**	**9130**	**9130**	**9565**	**10000**	**10400**	**10800**	**11150**	**11500**	
		15 mph		18302	20132	20132	21091	22050	22932	23814	24586	25358	
25"													
X-STRADDLE	**Straddle carrier**												**16.00 R 25**
	All axles	**10 km/h**		**12200**	**12950**	**13700**	**14450**	**15200**	**15950**	**16700**	**17450**	**18200**	
		6mph		26901	28555	30209	31862	33516	35170	36824	38477	40131	
		25 km/h		**9440**	**10010**	**10580**	**11150**	**11720**	**12290**	**12860**	**13430**	**14000**	
		15 mph		20815	22072	23329	24586	25843	27099	28356	29613	30870	
		30 km/h		**9085**	**9635**	**10185**	**10730**	**11280**	**11830**	**12380**	**12925**	**13475**	
		19mph		20032	21245	22458	23660	24872	26085	27298	28500	29712	
XZM STABIL'X	**Forlift trucks / Reach stackers**												
	Drive axle	**25 km/h**		**13520**	**14040**	**14560**	**15180**	**15800**	**16415**	**17030**	**17615**	**18200**	
		15 mph		29812	30958	32105	33472	34839	36195	37551	38841	40131	
	Steer wheel	**25 km/h**		**10400**	**10800**	**11200**	**11675**	**12150**	**12625**	**13100**	**13550**	**14000**	
		15 mph		22932	23814	24696	25743	26791	27838	28886	29878	30870	
X-STRADDLE	**Straddle carrier**												**480/95 R 25**
	All axles	**10 km/h**		**14820**	**15730**	**16640**	**17550**	**18460**	**19370**	**20280**	**21190**	**22100**	
		6mph		32678	34685	36691	38698	40704	42711	44717	46724	48731	
		25 km/h		**11400**	**12100**	**12800**	**13500**	**14200**	**14900**	**15600**	**16300**	**17000**	
		15 mph		25137	26681	28224	29768	31311	32855	34398	35942	37485	
		30 km/h		**10975**	**11650**	**12325**	**12998**	**13670**	**14345**	**15020**	**15693**	**16355**	
		19mph		24200	25688	27177	28661	30142	31631	33119	34603	36063	
XZM2 STABIL'X X STACKER STABIL'X	**Straddle carrier**												**18.00 R 25**
	Drive axle	**25 km/h**		**15930**	**16710**	**17490**	**18335**	**19180**	**20055**	**20930**	**21840**	**22750**	
		15 mph		35126	36846	38565	40429	42292	44221	46151	48157	50164	
	Steer wheel	**25 km/h**		**12250**	**12850**	**13450**	**14100**	**14750**	**15425**	**16100**	**16800**	**17500**	
		15 mph		27011	28334	29657	31091	32524	34012	35501	37044	38588	

THE TUBELESS BEAD SEAL™ (TBS™)

DEFINITION

The TBS™ is a special device conceived to permit the fitment of tubeless tires as tubeless on rims which are not tubeless.
It consists of a ring of special rubber, which is placed inside the tire, and fits between the tire beads.
It ensures the airtightness of the wheel and tire assembly. Valves and the plug can be ordered separately, if required.
RANGE (for fitment with XZM TL and STABIL'X XZM TL up to and including 20")
CAUTION ! The choice of TBS™ depends on the wheel rim width.

Rim Diameter (inches)	Corresponding Size	Rim	Marking			
			Tubeless Bead Seal	Valve	Plastic Plug	CAI of Assembly (TBS + valve + plug)
8	125 / 75 R 8 TL • 5.00 R 8 TL	**3 1/4 I** **3.00 D**	**80 TL 8**	R 2102 R 2160	- -	102180 (#) 102150
	180 / 70 R 8 TL	**4.33 R**	**100 TL 8** **110 TL 8**	R 2102 R 2102	- -	102081 (#) 613972
9	6.00 R 9 TL	**4.00 E**	**100 TL 9**	R 2102 R 2160	- -	102181 (#) 102151
10	6.50 R 10 TL	**5.00 F**	**125 TL 10**	R 2102 R 2161 R 2102 & R 2161	- - -	102183 (#) 421181 (#) 146328
	225 / 75 R 10 TL	**6.50 F**	**165 TL 10**	R 2101 R 2102 R 2161 R 2102 & R 2161	R 2110 R 2110 R 2110 R 2110	102114 (#) 102184 (#) 601840 (#) 062642
12	7.00 R 12 TL	**5.00 S**	**125 TL 12**	R 2101 R 2102	- -	102145 (#) 522788
	250 / 75 R 12 TL	**8.00 G**	**200 TL 12**	R 2101 R 2102	R 2110 R 2110	102040 (#) 787198
15	7.00 R 15 TL	**5.5**	**140 TL 15**	R 2101 R 2102	- -	102146 (#) 454346
	7.00 R 15 TL • 7.50 R 15 TL	**6.0**	**150 TL 15**	R 2101 R 2102	R 2110 R 2110	102147 (#) 702507
	7.50 R 15 TL • 8.25 R 15 TL	**6.5**	**165 TL 15**	R 2102	R 2110	575769
	8.25 R 15 TL • 225/75 R 15 TL • 250/70 R 15 TL	**7.0**	**175 TL 15**	R 2101 R 2102	R 2110 R 2110	102042 (#) 260511
	250 / 70 R 15 TL	**7.5**	**190 TL 15**	R 2101 R 2102	R 2110 R 2110	102044 (#) 464164
	315 / 70 R 15 TL	**8.0**	**200 TL 15**	R 2102	R 2110	609679
	355 / 65 R 15 TL	**9.75**	**250 TL 15**	R 2102	R 2110	026320
20	9.00 R 20 TL • 10.00 R 20 TL	**7.0**	**175 TL 20**	R 2102	R 2110	102087
	9.00 R 20 TL • 10.00 R 20 TL • 11.00 R 20 TL	**7.5**	**190 TL 20**	R 2101 R 2102	R 2110 R 2110	102043 (#) 102083
	10.00 R 20 TL • 11.00 R 20 TL • 12.00 R 20 TL	**8.0**	**200 TL 20**	R 2101 R 2102	R 2110 R 2110	102045 (#) 102085
	11.00 R 20 TL • 12.00 R 20 TL	**8.5**	**215 TL 20**	R 2101 R 2102	R 2110 R 2110	102046 (#) 102086

TBS™ whose CAI is followed by (#), are not manufactured any more.

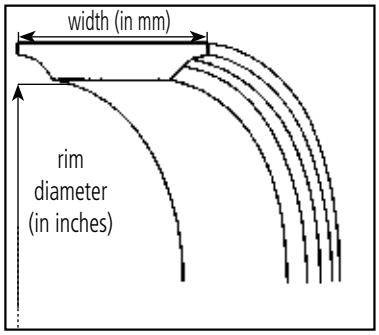
The 125 TL 10 TBS™ (CAI 146328) and the 165 TL 10 TBS (CAI 062642) are delivered with 2 valves (R 2102 valve and R 2161 valve).

THE TUBELESS BEAD SEAL™ (TBS™)

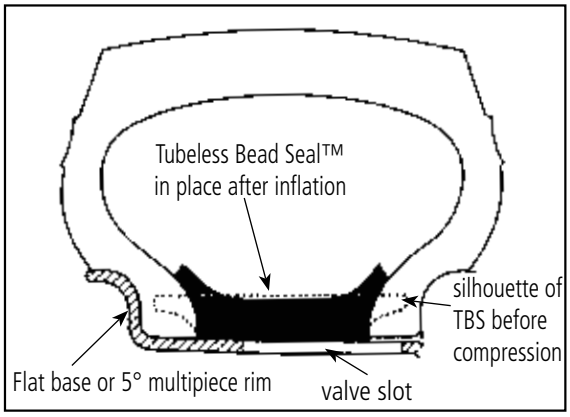
SIZE MARKINGS

Example of marking: 100 TL 8 (for 8 x 4.33 rim)
100 indicates the width of the TBS in mm
TL for a tubeless tire
8 indicates the rim diameter in inches
The choice of TBS™ depends on the width of the rim on which the tire is to be fitted.
TBS™ between 80 TL 8 and 140 TL 15 had only one chimney position into which the valve can be fitted.
Others have two chimneys; one central and the other offset to allow correct positioning relative to the wheel nave.
The chimney which is not used by the valve, is sealed with a plastic plug (supplied with the TBS™).

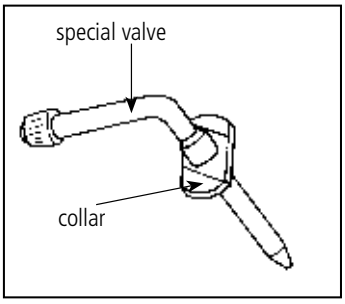
PRINCIPLE

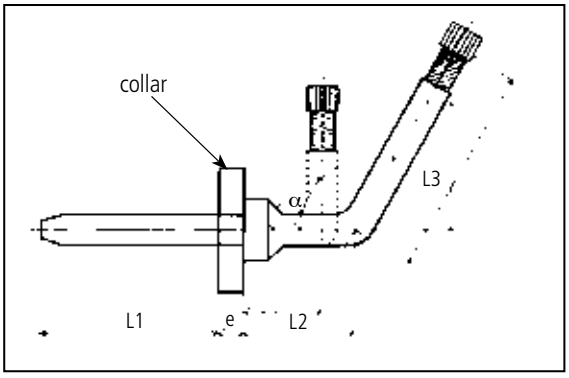


Cross section of a fitted TBS™



Special collared valve





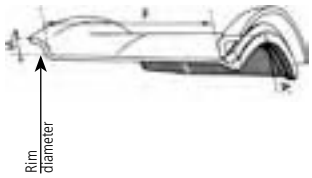
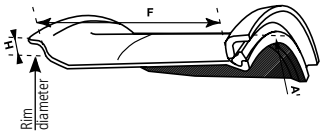
Special collared valve

Valves for TBS™	Ref.	CAI	α	L1	L2	L3	e	collar
Small valve, small collar	R2160	564220	94°	37 mm	18 mm	25 mm	3 mm	11 x 24 mm
Small valve, standard collar	R2102	563008	94°	37 mm	16 mm	25 mm	5 mm	14 x 25 mm
Large valve, standard collar	R2161	158244	94°	36.5 mm	11 mm	55 mm	5 mm	14 x 25 mm
Small valve, standard collar (this valve is no longer available)	R2101	563007	120°	37 mm	22.5 mm	43 mm	5 mm	14 x 25 mm

Plug	
Ref.	CAI
R2110	579048

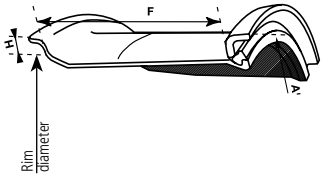
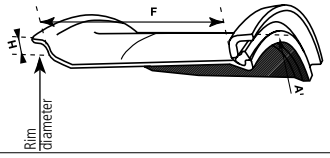
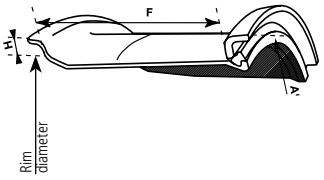
See pages 99 to 102 for valves and accessories.

APPROVED RIMS FOR EARTHMOVER TIRES

Rim types	Rim designation	F mm inches	H mm inches	A' mm inches	Tire sizes	O-ring
Flat base rims  	8 - **4.33 R**	110 4.3	28.5 **1.1**	260 10.2	**180/70 R 8**	none
	15 - **6.00 S**	152.4 6.0	33.3 **1.3**	448 17.6	**7.50 R 15**	
	20 - **7.33 V**	186 7.3	44 **1.7**	596 23.5	9.00 R 20 10.00 R 20 11.00 R 20	**R 1443** Tyran (A 20)
	20 - **8.00 V**	203 8.0	44 **1.7**	596 23.5	10.00 R 20 11.00 R 20	
	20 - **8.50 V**	216 8.5	44 **1.7**	596 23.5	11.00 R 20 12.00 R 20	
	20 - **9.00 V**	228.5 9.0	44 **1.7**	596 23.5	12.00 R 20	
	24 - **8.50 V**	216 8.5	44 **1.7**	698 27.5	12.00 R 24	none
	24 - **9.00 V**	228.5 9.0	44 **1.7**	698 27.5	12.00 R 24	
	24 - **10.00 W**	254 10.0	51 **2.0**	712 28.0	14.00 R 24	
5° taper semi drop center rims (SDC - Semi Drop Center)  	24 - **10.00 WA**	254 10.0	51 **2.0**	714 28.1	14.00 R 24	**Heupo** (OR 2-25)
5° taper bead seat rims  	20 - **B 6.5**	165 6.5	38 **1.5**	584 23.0	9.00 R 20	**R 1443** Tyran (A 20)
	20 - B 7.0	178 7.0	38 **1.5**	584 23.0	9.00 R 20 10.00 R 20	
	20 - 7.0 T	177.8 7.0	38.1 **1.5**	584 23.0	9.00 R 20 10.00 R 20	
	20 - B 7.5	190.5 7.5	43 **1.7**	594 23.4	9.00 R 20 10.00 R 20 11.00 R 20	
	20 - B 8.0	203 8.0	43 **1.7**	594 23.4	10.00 R 20 11.00 R 20	
	20 - 8.0 V	203 8.0	27.5 **1.1**	563 22.2	10.00 R 20 11.00 R 20	
	20 - B 8.5	216 8.5	45.5 **1.8**	599 23.6	11.00 R 20 12.00 R 20	
	20 - 8.5 V	216 8.5	44.4 **1.7**	597 23.5	11.00 R 20 12.00 R 20	
	24 - B 8.5	216 8.5	45.5 **1.8**	701 27.6	12.00 R 24	none

See pages 131 to 134 for valves and accessories.

APPROVED RIMS FOR EARTHMOVER TIRES

Rim types	Rim designation	F mm inches	H mm inches	A' mm inches	Tire sizes	O-ring
5° taper bead seat rims (advenced rim) 	8 - **3.00 D**	76 3.0	18 **0.7**	239 9.4	5.00 R 8	
	8 - 3 **1/4 I**	82.5 3.2	16 **0.6**	235 9.3	**5.00 R 8**	
	8 - **5.00 F**	127 5.0	22.5 **0.9**	248 9.8	180/70 R 8	
	9 - **4.00 E**	101.5 4.0	20 **0.8**	243 9.6	**6.00 R 9**	
	10 - **5.00 F**	127 5.0	22.5 **0.9**	299 11.8	**6.50 R 10**	
	10 - **5.50 F**	140 5.5	22.5 **0.9**	299 11.8	6.50 R 10	
	10 - **6.50 F**	165 6.5	22.5 **0.9**	299 11.8	**225/75 R 10**	
	12 - **5.00 S**	127 5.0	31.5 **1.2**	368 14.5	**7.00 R 12**	
	12 - **8.00 G**	203 8.0	28 **1.1**	361 14.2	**250/75 R 12**	none
	15 - **5.5**	139.5 5.5	30.5 **1.2**	442 17.4	**7.00 R 15**	
	15 - **6.0**	152.5 6.0	33 **1.3**	447 17.6	7.00 R 15 **7.50 R 15**	
	15 - **6.5**	165 6.5	35.5 **1.4**	452 17.8	7.50 R 15 **8.25 R 15**	
5° taper bead seat rims (advenced rim) 	15 - **7.0**	178 7.0	38 **1.5**	457 18.0	**225/75 R 15** 8.25 R 15 250/70 R 15	
	15 - **7.5**	190.5 7.5	40.5 **1.6**	462 18.2	**250/70 R 15**	none
	15 - **8.0**	203 8.0	43 **1.7**	467 18.4	**315/70 R 15**	
	15 - **9.75**	247.5 9.7	38 **1.5**	457 18.0	**355/65 R 15**	
5° taper bead seat rims (advenced rim) 	20 - **6.0**	178 7.0	38 **1.5**	584 23.0	7.50 R 20	
	20 - **6.5**	165 6.5	35.5 **1.4**	579 22.8	8.25 R 20 9.00 R 20	
	20 - **7.0**	178 7.0	38 **1.5**	584 23.0	**9.00 R 20** 10.00 R 20	
	20 - **7.5**	190.5 7.5	40.5 **1.6**	589 23.2	9.00 R 20 **10.00 R 20** 11.00 R 20	
	20 - **8.0**	203 8.0	43 **1.7**	594 23.4	10.00 R 20 **11.00 R 20** 12.00 R 20	none
	20 - **8.5**	216 8.5	45.5 **1.8**	599 23.6	11.00 R 20 **12.00 R 20**	
	20 - **9.0**	228.5 9.0	48.5 **1.9**	605 23.8	12.00 R 20	
	24 - **8.5**	216 8.5	45.5 **1.8**	701 27.6	12.00 R 24	
	24 - **9.0**	228.5 9.0	48.5 **1.9**	707 27.8	12.00 R 24	**Heupo** (OR 2-25)
	24 - **10.0**	254 10.0	50.8 **2.0**	711 28.0	**14.00 R 24**	
5° taper bead seat rims (5 pieces) 	25 - **11.25/2.0**	284 11.2	51 **2.0**	737 29.0	**16.00 R 25**	
	25 - **13.00/2.0**	330 13.0	51 **2.0**	737 29.0	16.00 R 25	**Sulla** (OR 3-25)
	25 - **13.00/2.5**	330 13.0	63.5 **2.5**	762 30.0	**18.00 R 25**	
	25 - **15.00/2.5**	381 15.0	63.5 **2.5**	762 30.0	18.00 R 25	
	33 - **13.00/2.5**	330 13.0	63.5 **2.5**	965 38.0	**18.00 R 33**	**Strix** (OR 3-33)

See pages 131 to 134 for valves and accessories.

COMPONENTS USED WITH INDUSTRIAL AND HANDLING TIRES

TUBES AND FLAPS FOR HANDLING TIRES

Rim diameter	Fits tire sizes	Tube Reference	Valve Reference	Valve type (1)	Tube + valve CAI	Flap Reference	Flap CAI
8"	5.00 R 8 (5.70 R 8)	8 CG	570	SC	101013	**83-8 L**	102500
	180 / 70 R 8 (18 x 7.00 R 8)	8 D	570	SC	101022	**5-8**	102530
9"	6.00 R 9 (6.90 R 9)	9 F	570	SC	101040	110-9 LD	102660
10"	6.50 R 10	10 F	1012	SC	101049	150-10 LD	102670
	225/75 R 10 (23 x 9 R 10)					7-10	551007
12"	7.00 R 12	12 H	578	DC	101078	125-12 LD	102680
	250 / 75 R 12 (27 x 10 R 12)	12 KD	578	DC	101123	9-12 D	102720
15"	7.00 R 15	15/16 F	570	SC	101071	15 x 6.00	511268
	225 / 75 R 15 (28 x 9 R 15)					15 x 7.50	084220
	7.50 R 15	15/16 J	570	SC	101106	15 x 6.00	511268
	250/70 R 15 (250 R 15)					15 x 7.50	084220
	8.25 R 15	15 K	1156	SC	101128	15 x 6.00	511268
	315/70 R 15 (300 R 15)	15 P	582	TC	510204	15 x 7.50	084220
20"	9.00 R 20	20 M	1157	SC	101153	20 x 7.50	818874
	10.00 R 20	20 N	1158	SC	101161		
	11.00 R 20	20 P	1158	SC	101173	20 x 8.50	111005
	12.00 R 20	20 Q	1158	SC	101192		
24"	12.00 R 24	24 Q	582	TC	101196	24/25 x 8.50	001444
	14.00 R 24	24/25 T	752	SC	514503	13-24/25	551600
25"	16.00 R 25	25 W AM	1837 (TRJ650)	SC	101871	16-24/25	551608
	18.00 R 25	25 W AM	1837 (TRJ650)	SC	101871	16-24/25	551608
33"	18.00 R 33	33 VF AM	1837 (TRJ650)	SC	101321	16 - 33	551760

(1) DR = straight valve, SC = single bend valve, DC = double bend valve, TC = triple bend valve, see pages 131 to 134.

TUBE MARKINGS:

example: eg. 1: **24/25 T** eg. 2: **25 W AM**

The first two numbers indicate the bead seat (rim) diameter of the tire into which the tube can be fitted.

(in the first example, the tube may be fitted in 24 and 25 inch tires. In the second example, the tube may be fitted only in 25 inch tires.)

The first letter corresponds to the section width of the tube (internal width of the tire). This ranges from A to Z, with A being the smallest.

In the examples above, T and W indicate that the tubes are designed for fitting into tires of relatively large section width.

Sometimes, a second letter provides additional information:

B, E, F and H which indicate intermediate widths.

The third and fourth letters are an indication of the valve type.

AM indicates that the tube is fitted with an American valve base, R1946 (TRA SP4000) and a valve stem R1837 (TRJ 650).

D would indicate that the valve is offset. T would indicate a tractor tube fitted with an air-water valve, ex. type TR 218A.

Explanation on valves and valve bases are given on subsequent pages.

See pages 131 to 134 for valves and accessories.

TUBES AND FLAPS FOR HANDLING TIRES

FLAP MARKINGS:
Flaps which contain the letter "D" in their description have an offset valve hole (e.g.: 125 - 12 LD). Check before fitting whether the valve slot in the wheel requires a central or offset valve hole. For each tire size shown, the flap shown in bold will be supplied, unless another is specified.

e.g.1: **20 x 8.50**
The first number indicates the tire seat diameter, expressed in inches, with which the flap is to be used.
In this example, the flap may be used with 20 inch tires.
The second number indicates the enlarged width of the flap (width + height), in inches.
In this example, the enlarged width of the flap is 8.50 inches.

e.g. 2: **14-24/25**
The first number indicates the total width of the flap (includes height of edges), expressed in either mm or in inches.
In the example above, the width of the flap is 14 inches. The second number indicates the rim diameter, or the tire bead seat (rim) diameter in inches, with which the flap is to be used. In this example, the flap may be used with 24 and 25 inch tires.
Additional letters may be used to provide supplementary information.
For example, the significance of different letters is as follows:
L - the edges are tapered, B - the flap has a reinforcing boss around the valve position, S - the flap is reinforced, D - offset hole for valve.

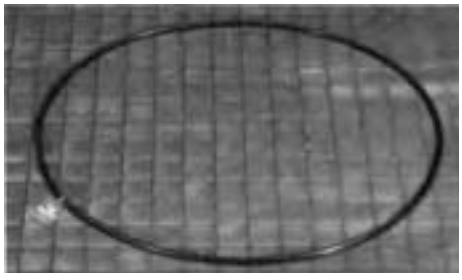
SEALS FOR HANDLING TIRES AND RIMS

Name	Designation	Reference	CAI	Type	Remarks
Tyran	A 20	R 1443	553 004	Corner Seal	for 20" tires
-	OR 6.6 - 20	R 1681	553 215	O-ring	for 335/80 R 20, 375/75 R 20, 405/70 R 20 and 425/75 R 20 on SDC rim
Heupo	OR 2 - 25	R 1438	553 201	O-ring	for 25" rim (3 pieces)
Sulla	OR 3 - 25	R 1437	553 200	O-ring	for 25" rim [5 pieces (1)]
Strix	OR 3 - 33	R 1440	553 203	O-ring	for 33" rim

(1) and for 3 piece CR rims

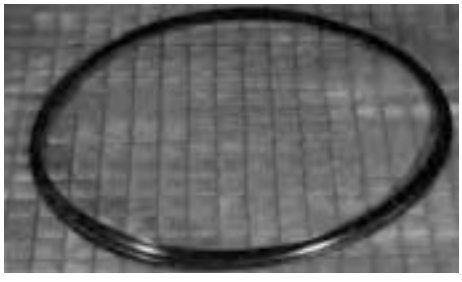
SEAL DESCRIPTION

O-ring:



Explanation of the sealing ring designation:
The first number is the section diameter of the seal:
OR: Abbreviation of O Ring
- imperial number: value expressed in 1/8 of inch (3 = 3/8)
- decimal number: value expressed in mm (6.6 = 6.6 mm)
The second number is the nominal bead seat diameter, expressed in inches.

Corner seal:



Explanation of the corner seal designation:
The letter indicates the profile of the seal.
The number is the nominal rim diameter, in inches.

Note:
Approval for use of corner seals must be obtained from Michelin.

RECOMMENDATIONS – INDUSTRIAL TIRES

THE IMPORTANCE OF THE TIRE

Tires are the only contact between the vehicle and the ground. It is therefore vital to have the correct tire and to keep it in good condition.
See page 168.

TIRE LOAD INDEX AND SPEED SYMBOL

See page 141 and 142.

CHOICE OF TREAD PATTERN

This depends essentially on the conditions of use, and the type of ground encountered (e.g.: traction requirement, risk of damage, etc.)
Optimum tire performance depends on the correct tire choice.
An unsuitable tread pattern will result in a significant reduction in tire life.

MOUNTING AND REMOVAL OF TIRES

These operations must be entrusted to a professional having the correct equipment and training. Incorrect mounting can cause fatal injuries during the mounting operation or cause damage (which may be visible or not) to either the tire or rim. Such damage could result in premature failure of the tire.
Tube type MICHELIN® tires must be mounted with the corresponding MICHELIN® tube and flap.
Tubeless industrial tires may be mounted with a tubeless bead seal on all rims to which the same size could be mounted as tube type. They can also be mounted with a tube and flap if a TBS™ is not available.

When a tire is replaced, it is recommended that a new TBS™ is mounted at the same time.
If the old TBS™ is re-mounted, it is essential that a new valve is used, and that the valve hole in the TBS™ is undamaged.
If it is damaged, the TBS™ must be replaced, as it is the hole and the valve that ensure there is no air loss.

Tubeless Earthmover and Truck Tires, when mounted to a flat base tubeless wheel, must be mounted with the correct corner joint.

**Tires mounted and placed in stock must IMPERATIVELY be inflated to 80 psi (5.5 bars) for a correct installation of the beads.
The pressure must then be reduced to between 10 and 12 psi (0.7 and 0.8 bars).
The tire should be inflated to the correct pressure when the assembly is mounted to the machine.**

**When a tire is mounted to a divided wheel (normally consisting of 2 parts bolted together), or in the case of a dual fitment, it is ESSENTIAL to totally deflate the tire before any intervention.
Failure to follow this rule can result in very serious injury.**

**The design of divided wheels (2 parts bolted together) varies.
Therefore, the maximum recommended pressure is different from one manufacturer to another.
Please consult the wheel manufacturer to ascertain the recommended max. fitment air pressure.**

USAGE RECOMMENDATIONS FOR MICHELIN® EARTHMOVER TIRES

GENERAL PRECAUTIONS

1 - Never undertake any welding, or apply any heat of any form to the wheel, or in close proximity of the wheel, before removing the tire from the rim. Serious explosion can result if this precaution is not taken.
2 - Never work in the vicinity of high tension overhead power cables, before ensuring that the minimum safe distance between the power cables and the materials handling equipment being used will be respected in all operations.
3 - The following are NOT recommended:
- dual wheel application of MICHELIN® radial tires with tires of diagonal ply construction.
- dual wheel application of normal tread tires and those with a deep tread.
- dual wheel application of tires of the same type but with different degrees of wear.
- the mixing on the same machine of radial tires with either diagonal ply tires or pneumatic shaped solid tires. (sometimes referred to as cushion tires).

INFLATION PRESSURE

Tire pressures should be checked every two weeks.
The correct inflation pressure is of utmost importance for safety, stability, tire life, comfort and energy saving.
Under-inflation causes an abnormally high temperature in the tire's components and leads to the deterioration of the tire.
This deterioration is irreversible and may result in a sudden tire deflation.
The damaging effects of under-inflation do not necessarily show at once, but can show up some time after the pressure has been corrected.
After an extended period of use while under-inflated, the tire must be removed from the wheel, inspected and if judged suitable for further service, re-mounted.
The weighing of each axle (front and rear) of a fully laden vehicle is the only way to determine the correct inflation pressure.

CHECK INFLATION PRESSURE REGULARY WHEN THE TIRES ARE COLD

It is normal for tire pressures to rise while running, so never bleed air from a tire which has recently been running.
Ensure the tire pressures of twin tires are the same.
Unless a specification to the contrary exists, the recommended pressure for industrial tires is between 9 and 10 bars (131 and 145 PSI). (See note above concerning divided wheels).

STORAGE OF TIRES AND TUBES

To avoid premature ageing and deterioration, tires must be stored in a dark, dry and cool place indoors.
They should be protected from:
1) ozone concentrations (sunlight, arc-welding, mercury vapour lamps, electric generators, etc.)
2) ultra-violet radiation
3) extreme temperatures
4) grease, gasoline and other substances which could deteriorate the rubber

Tires should be placed vertically, upright, side-by-side as if positioned on a vehicle.
Tubes, flaps and air-tight seals can be kept in their original packaging or open on shelves or in containers where the surface in contact with the rubber is smooth to avoid risks of tearing, cuts or perforations.

For more information, please consult your local Michelin® Earthmover Representative.

USAGE RECOMMENDATIONS FOR MICHELIN® EARTHMOVER TIRES

THE IMPORTANCE OF THE TIRE

TIRES ARE THE ONLY CONTACT BETWEEN THE VEHICLE AND THE GROUND.
IT IS THEREFORE VITAL TO HAVE THE CORRECT TIRE AND MAINTAIN IT PROPERLY.

GENERAL PRECAUTIONS TO BE TAKEN WHEN MOUNTING OR DISMOUNTING TIRES

Safety Warning
In order to minimize the risk of accidents,

Always follow the recommended mounting and unmounting procedures for pneumatic tires.
Only specially trained and authorized personnel should mount or dismount earthmover tires.
- The inner and the outer tires of a dual fitment must always be deflated before dismounting any rim component from the hub of the vehicle.
- Never attempt to repair a damaged wheel by brazing, soldering or welding with the tire still mounted to the wheel even if deflated. Do not apply heat to the wheel or rim when the tire is still mounted.
- If working near overhead electric lines, make sure that the highest point on the vehicle or on the load is at a safe distance from the lines.

Never exceed the inflation pressure for the wheel. (This may be lower than that for the tire.)
Always ensure that the tire is properly mounted and seated on the rim before inflation to protect the tire and serviceman.

Please consult Michelin® technical documentation for advice on inflation pressures and safety guidelines.

Maintain the recommended inflation pressure for the application:
Under inflation or over inflation can be dangerous for the serviceman and machine operator, and can cause irreparable damage to the tire (rapid and irregular wear, excessive temperatures, poor handling, etc.)

Ensure that the tire is operated within its design parameters:
Overload or use at excessive speeds will ultimately affect a tire's performance.

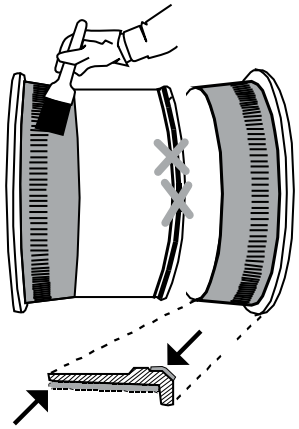
We strongly advise against:
- dual mounting MICHELIN® radial tires with bias-ply tires.
- dual mounting a tire of normal tread depth with a deep treaded tire.
- dual mounting tires of the same type which have different degrees of wear.

If in any doubt, please consult Michelin® documents on MOUNTING AND DISMOUNTING OF EARTHMOVER TIRES.

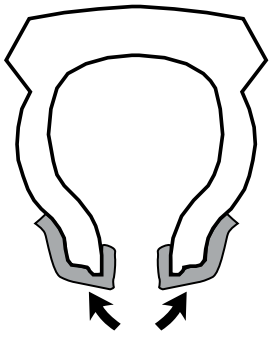
LUBRICATION

Lubricate only areas on rim components that are in contact with tire.

Safety Note
Never use petroleum based lubricants!



Lubricate the grooved area of the outside bead seat band using a vegetable-based lubricant.



Lubricate the tire beads, from the bead point rubber to the bead positioning rib.

Always remove the bead protectors and lubricate the base of bead seat.
Lubricate the tire beads, from the bead point rubber to the bead positioning rib.

THE IMPORTANCE OF THE TIRE (CONT.)

HANDLING

Improper handling of a unmounted tire can cause irreparable damage.
In order to eliminate the risk of bead damage and the resulting problems, Michelin® strongly advises that:

1 - The tire is not lifted directly by the bead with a crane or bead hook.
2 - Flat straps are used (not steel slings or chains).
3 - The tire is lifted under the tread and not the beads when a forklift truck is used.
4 - For all tubeless tires supplied with bead protectors, **the protector should be left in place immediately before mounting**.
(keep the protectors; they can be refitted when the tire is temporarily removed for repair or retreading).

STORAGE

In order to avoid premature aging and damage to tires, store them in a cool dry place indoors and away from direct sunlight.

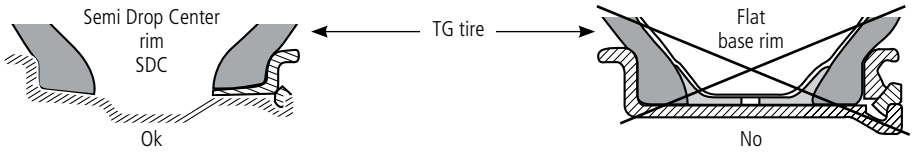
If this cannot be done, tires must be protected from:

1 - Ozone sources (sun, arc-welders, mercury vapor light bulbs, etc).
2 - Ultra-violet rays.
3 - Weather

- Tires should be stored vertically, one against the other (avoid stacking).
- Tubes, flaps and sealing rings may be stored in their original packing, or unwrapped, on clean racks, shelves or in containers, providing that the surfaces in contact with the rubber are smooth to avoid tears, cuts or perforations and free from chemicals which damage rubber.

MOUNTING OF TG EARTHMOVER TIRES (24 INCH DIAMETER) (14.00 R 24 / 16.00 R 24)

These tires must only be mounted on drop-center, semi drop-center or single piece wheels.
(XGLA2* TG, XRA* TG, X SNOPLUS* TG and XMPS* TG)
Do not fit * TG tires on flat base rims.



RIMS MUST BE 15 DEGREE DC, SDC OR SINGLE PIECE FOR A TG TIRE.

MOUNTING OF 15.5 R 25* AND 17.5 R 25* EARTHMOVER TIRES

L2 (XTLA*, X SNOPLUS*) and L3 (XHA*) tires can be fitted to:
- multi piece SDC or Flat Base rims
- single piece rims

NOTE: L3** (XKA), L4 (XRD1A) and L5 (XLDD2,* X MINED2, XSMD2+) tires should only be fitted to multi piece rims.
They should not be fitted to single piece rims.

USAGE RECOMMENDATIONS FOR MICHELIN® EARTHMOVER TIRES

MAIN CAUSES OF DETERIORATION IN EARTHMOVER TIRES

A large number of earthmover tires are rendered unserviceable as a result of:
- incorrect inflation pressures
- overload
- excessive speed
- severe impacts
- a combination of the above factors

Separation between component parts of a tire can occur and, if identified, its cause should be immediately investigated.

This generally results from overheating due to:
- traveling at speeds higher than those recommended for the loads and pressures used
- under-inflation or overload of the tires for the application
- heat generated by other parts and transferred to the tires: from brake drums, hub-reduction gears, etc.

Separation can also be caused or aggravated by mechanical forces:
- excessive lateral forces occurring in very tight radius curves
- impacts on badly maintained surfaces
- constant hammering due to the condition of the road surface

To minimize these abnormal mechanical forces:

- bank bends correctly during their construction
- travel at speeds compatible with the radius and the banking of the bends

Relation between curve radius, speed and banking for 0° slip-angle

RADIUS		km/h	15	20	25	30	35	40	45	50	55	65
		mph	9	12	15	20	22	25	28	31	35	40
(m)	(ft)	BANKING %										
50	**165**		3.5	6	10							
60	**195**		3	5	8	12						
70	**230**		2.5	4.5	7	10						
80	**260**		2	4	6	9	12					
90	**295**		2	3.5	5.5	8	10.5					
100	**330**		1.5	3	5	7	9.5					
125	**410**			2.5	3.5	5.5	7.5	10				
150	**490**			2	3	5	6.5	8.5	10.5			
175	**575**				2.5	4	5.5	7	9	11		
200	**655**					3.5	5	6	8	10	12	
250	**820**						4	5	7	8	10	
300	**985**						3	4	5	6	8	10

For traveling on non-banked curves, follow the instructions in the table below:

MINIMUM RADIUS		MAXIMUM SPEED	
15 m	50 ft	8 km/h	5 mph
25 m	80 ft	10 km/h	6 mph
50 m	165 ft	15 km/h	9 mph
75 m	245 ft	20 km/h	12 mph
100 m	330 ft	25 km/h	15 mph
200 m	655 ft	30 km/h	20 mph

ROADING (DRIVE-AWAY)

Transportation of empty vehicles over long distances requires maximum precaution with regard to:
- inflation pressures
- maximum speed
- duration of rest stops

For any non-standard application, consult Michelin® Earthmover.

NITROGEN INFLATION

INTRODUCTION

Our tires are designed to give the highest level of performance with normal air inflation.

WHEN SHOULD NITROGEN INFLATION BE RECOMMENDED?

Nitogen is an inert non-combustible gas.
Nitrogen inflation reduces the risk of fires and improves safety.
Nitrogen diffuses more slowly than oxygen through rubber limiting considerably the risk of oxidation of differents parts of the tire (rubber, cables, etc.) and the steel components.

Nitrogen inflation is systematically recommended for reasons of safety when working under the following conditions:
- areas where there is a risk of explosion.
- working with or in areas involving high temperature liquids (e.g. foundries, glass works, etc.)
- working in areas where there is a risk of electrical discharge (close to high tension cables, etc.)
- working where overheating of a tire has been caused by:
  - intensive driving (speed, distance, intensity of the cycles)
  - excessive overheating of a mechanical unit (transmission or brakes for example)

Nitrogen inflation is a well adapted solution for use with mechanical handling equipment.

EQUIPMENT NECESSARY

To install an effective inflation system, we would recommend:
- 2 gas bottles of compressed nitrogen
- 1 nitrogen regulator
- an inflation gun EURODAINU ref. 1822 for truck and industrial, and ref. 35864 for earthmover.

ATTENTION: Inflation with nitrogen must be undertaken by a person who has been trained to use it.
Never use a nitrogen bottle without the appropriate regulator, and always follow safety guidelines.

SUPPLIERS: Contact your local specialist in compressed gases.

VOLUME OF NITROGEN NECESSARY TO INFLATE A TIRE

The quantity of nitrogen necessary to inflate a tire is proportional to its internal volume and the inflation pressure required.
The volumes of the industrial tires are shown in the tables (characteristics of MICHELIN® Industrial Tires)
Example: 250 /70 R 15 XZM TL interior volume is 39 liters
for a pressure of 10 bars, the quantity of nitrogen needed is: 39 x 10 = 390 liters.

APPROXIMATE LOOSE MATERIAL DENSITIES AND WEIGHTS

Approximate Loose Material Densities (t/m³)

Material	t/m³	Material	t/m³
Alkaline potash	**1.3 to 1.5**	Copper ore	**1.6**
Anthracite	**0.9 to 1.1**	Iron ore	**2.4 to 3.3**
Clay (dry)	**1 to 1.1**	Pyrites	**2.6**
Clay (moist)	**1.2 to 1.3**	Earth dry	**1.2 to 1.5**
Clay (wet)	**1.3 to 1.4**	Earth moist	**1.3 to 1.4**
Bauxite	**1.5**	Earth wet	**1.4 to 1.5**
Mud	**1.8**	Overburden	**1.7 to 1.8**
Limestone	**1.5 to 1.6**	75 % rock - 25 % earth	**1.9 to 2**
Coal	**0.7**	50 % rock - 50 % earth	**1.7 to 1.8**
Quick-lime	**0.9 to 1.3**	25 % rock - 75 % earth	**1.6**
Slaked lime	**1.1 to 1.3**	Sand dry	**1.5**
Chalk	**1.8 to 2.6**	Sand moist	**1.9**
Granite	**1.6 to 1.7**	Gravel dry	**1.7 to 1.8**
Sandstone	**1.6**	Gravel moist	**2**
Crushed gypsum	**1.6**		
Marl clay	**2.2**		

Material Densities– Approximate Material Weights

Material	Pounds Per Cubic Yd. (Loose)	Kilograms Per Cubic Meter (Loose)
BASALT	3300	1960
BAUXITE		2400-32001425-1900
CALICHE		2100-25001245-1485
CLAY - NATURAL BED	2200-2800	1305-1660
- DRY	1850-2500	1100-1485
- WET	2500-2900	1245-1720
CLAY AND GRAVEL		
- DRY	2500	1485
- WET	2500-2800	1305-1660
COAL - ANTHRACITE	1450-2000	860-1185
- BITUMINOUS	1350-1600	800-950
- LIGNITE	1225	725
COPPER ORE	2800	1660
EARTH - DRY LOAM	1800-2400	1070-1426
- MOIST	2080-2600	1235-1545
- WET	2700-2900	1600-1720
EARTH, SAND AND GRAVEL	2650	1570
EARTH AND ROCK		
(25/75)	3300	1760
(50/50)	2900	1720
(75/25)	2650	1570
GRAVEL - DRY	2500	1485
- WET	3400	2020
IRON ORE	4150-5500	2460-3260
LIMESTONE	2400-2600	1425-1540
SAND - DRY	2400-2950	1425-1750
- MOIST	2800-3100	1660-1840
- WET	3100-3250	1840-1930
SANDSTONE	2600-2950	1545-1750
SHALE	2100	1245
SLAG	3000	1780
STONE - CRUSHED	2400-2900	1425-1720
TACONITE	3000-4000	1782-2377

UNITS OF MEASURE AND CONVERSION TABLES

Measurement	Abbreviation	Conversion factor	Abbreviation	Measurement	Conversion factor	Abbreviation
TORQUE						
pound foot	lb ft	**x 0.1383**	= m kg	kilogram meter	**x 7.233**	= lb ft
kilogram meter	m kg	**x 9.81**	= m N	Newton meter	**x 0.102**	= m kg
LENGTH						
32nds	32nd	**÷ 1.26**	= mm	millimeter	**x 1.26**	= 32nd
inch	in	**x 0.0254**	= m	meter	**x 39.37**	= in
inch	in	**x 25.4**	= mm	millimeter	**x 0.039**	=in
foot	ft	**x 0.3048**	= m	meter	**x 3.281**	= ft
yard	yd	**x 0.9144**	= m	meter	**x 1.0936**	= yd
mile	ml	**x 1.6093**	= km	kilometer	**x 0.6214**	= ml
LOAD						
pound	lb	**x 0.4536**	= kg	kilogram	**x 2.205**	= lb
long ton (G.B.) 2240 lb	lg ton	**x 1.016**	= T	metric ton	**x 0.984**	= lg ton
short ton (U.S.) 2000 lb	sh ton	**x 0.907**	= T	metric ton	**x 1.103**	= sh ton
DENSITY						
pound cubic foot	lb/cu ft	**x 16.0184**	= kg/m^3	kilogram/m^3	**x 0.625**	= lb/cu ft
pound cubic yard	lb/cu yd	**x 0.5933**	= kg/m^3	kilogram/m^3	**x 1.686**	= lb/cu yd
PRESSURE						
kilopascal	kPa	**x 0.01**	= bar	bar	**x 100**	= kPa
atmosphere (at sea level)	atm	**x 0.986**	= bar	bar	**x 1.014**	= atm
pound square inch	psi	**x 0.0703**	= kg/cm^2	kilogram/cm^2	**x 14.22**	= psi
pound square inch	psi	**x 0.069**	= bar	bar	**x 14.513**	= psi
pound square inch	psi	**x 0.068**	= atm	atmosphere	**x 14.7**	= psi
pound square inch	psi	**x 6.895**	= kPa	kilopascal	**x 0.145**	= psi
POWER						
french horsepower	CV	**x 0.7355**	= kW	kilowatt	**x 1.36**	= CV
horsepower	HP	**x 0.7457**	= kW	kilowatt	**x 1.34**	= HP
french horsepower	CV	**x 0.98**	= HP	horsepower	**x 1.014**	= CV
VOLUME/CAPACITY						
cubic foot	cu ft	**x 0.02832**	= m^3	cubic meter	**x 35.31**	= cu ft
cubic yard	cu yd	**x 0.7646**	= m^3	cubic meter	**x 1.308**	= cu yd
gallon (U.S.)	gal	**x 3.7854**	= l	liter	**x 0.2642**	= gal
TEMPERATURE						
degree fahrenheit	°F	**- 32 x (5/9)**	= °C	degree Celsius	**x (9/5) + 32**	= °F

EARTHMOVER TREAD DEPTH CHART

XZSL STABIL X

MSPN	SIZE	TREAD	Classification	ISO	STAR	32nds	MM
56324	10R16.5	STABIL' XZSL	L3	128A5	8	24	19
70710	12R16.5	STABIL' XZSL	L3	141A5	10	28	23
41393	27X8.50R15	STABIL' XZSL	L3	117A5	6	18	15

XCL

12568	7.50 R 15	X L C	C1	---	---	10	8
06569	13/80 R 20 E20 PIL	X L C	C1	---	---	15	12

X MINE D2

18686	10.00 R 15	X MINE D2	L5	---	---	60	48
19601	12.00 R 20	X MINE D2	L5	---	---	72	57
19455	12.00 R 24	X MINE D2	L5	---	---	72	57
64715	14.00 R 20	X MINE D2	L5	---	---	60	48
41368	14.5 R 15	X MINE D2	L5	---	---	60	48
34827	15.5 R 25	X MINE D2	L5	---	---	76	60
32219	17.5 R 25	X MINE D2	L5	---	---	82	65
00489	18.00 R 25	X MINE D2	L5	---	---	103	82
34173	20.5 R 25	X MINE D2	L5	---	---	93	74
14357	23.5 R 25	X MINE D2	L5	---	---	105	83
21337	26.5 R 25	X MINE D2	L5	---	---	115	91
33522	29.5 R 25	X MINE D2	L5	---	---	126	100
19132	35/65 R 33	X MINE D2	L5	---	---	122	97
85701	350/65 R 15	X MINE D2	L5	---	---	45	36
41318	400/80 R 15	X MINE D2	L5	---	---	42	33
23416	7.50 R 15	X MINE D2	L5	---	---	58	46
22154	8.25 R 15	X MINE D2	L5	---	---	60	48
09497	9.00 R 20	X MINE D2	L5	---	---	64	51
51136	45/65 R 39	X MINE D2	L5	---	---	146	116
76263	45/65 R 45	X MINE D2	L5	---	---	145	115
07695	55/80 R 57	X MINE D2 HR	L5	---	---	150	119
09011	60/80 R 57	X MINE D2 HR	L5	---	---	148	118
13267	55/80 R 57	X MINE D2 LC	L5	---	---	150	119
98725	60/80 R 57	X MINE D2 LC	L5	---	---	148	118
18939	55/80 R 57	X MINE D2 SR	L5	---	---	150	119
31145	60/80 R 57	X MINE D2 SR	L5	---	---	148	118

X SNOPLUS M&S

53173	14.00 R 24	X SNOPLUS M+S	G2	---	*	30	24
99466	17.5 R 25	X SNOPLUS M+S	G2,L2	---	*	35	28
62408	20.5 R 25	X SNOPLUS M+S	G2,L2	---	*	39	31
74539	23.5 R 25	X SNOPLUS M+S	G2,L2	---	*	43	34
36887	385/95 R 24	X SNOPLUS M+S	E2	170E	---	30	24
05893	385/95 R 25	X SNOPLUS M+S	E2	170E	---	30	24

X STACKER

21861	18.00 R 25	X STACKER	---	207A5	36	113	90

X TERMINAL T

33193	280/75 R 22.5	X TERMINAL T	---	168 A8	16	39	31
	310/80 R 22.5	X TERMINAL T		175 A8		38	30

X TRACTION

02173	24.00 R 35	X TRACTION E4T	E4	---	**	97	77
35019	27.00 R 49	X TRACTION S B	E3	---	**	58	46
35019	27.00 R 49	X TRACTION S A	E3	---	**	58	46
10116	27.00 R 49	X TRACTION B	E4	---	**	102	81
38957	27.00 R 49	X TRACTION A4	E4	---	**	102	81
68679	27.00 R 49	X TRACTION B4	E4	---	**	102	81

XAD65-1 SUPER E3T

89647	650/65 R 25	XAD65-1 SUPER	E3	180B	---	51	40
79374	750/65 R 25	XAD65-1 SUPER	E3	190B	---	54	43
74895	775/65 R 29	XAD65-1 SUPER	E3	195B	---	57	45
87257	850/65 R 25	XAD65-1 SUPER	E3	196B	---	61	47
40269	875/65 R 29	XAD65-1 SUPER	E3	203B	---	64	51

XADN

86650	23.5 R 25	XADN	E3	185B	---	48	38
72625	26.5 R 25	XADN	E3	193B	---	52	41
44038	29.5 R 25	XADN	E3	200B	---	55	44

XADT

60172	26.5 R 25	XADT	E4	193B	---	66	52
63837	29.5 R 25	XADT	E4	200B	---	72	57

X-CRANE AT

22555	385/95 R 25	X-CRANE AT	E2	170F	---	28	22
39675	445/95 R 25	X-CRANE AT	E2	174F	---	32	25
93770	385/95 R 24	X-CRANE AT TT	E2	170F	---	28	22

XDM

37347	37.00 R 57	XDM B	E4	---	**	125	99
51650	40.00 R 57	XDM C4	E3	---	**	80	64

EARTHMOVER TREAD DEPTH CHART

MSPN	SIZE	TREAD	Classification	ISO	STAR	32nds	MM
XDR							
95164	59/80 R 63	XDR "S" B	E3	---	**	89	71
99387	59/80 R 63	XDR "S" C4	E3	---	**	89	71
97772	27.00 R 49	XDR A	E4	---	**	95	75
62874	33.00 R 51	XDR A	E4	---	**	110	87
44598	36.00 R 51	XDR A	E4	---	**	122	97
82908	37.00 R 57	XDR A	E4	---	**	122	97
94513	40.00 R 57	XDR A	E4	---	**	122	97
62109	59/80 R 63	XDR A	E4	---	**	146	116
92388	27.00 R 49	XDR B	E4	---	**	95	75
76044	33.00 R 51	XDR B	E4	---	**	110	87
50173	36.00 R 51	XDR B	E4	---	**	122	97
48838	37.00 R 57	XDR B	E4	---	**	122	97
65161	40.00 R 57	XDR B	E4	---	**	122	97
39369	50/80 R 57	XDR B	E4	---	**	121	96
95806	50/90 R 57	XDR B	E4	---	**	135	107
75490	53/80 R 63	XDR B	E4	---	**	132	105
05123	56/80 R 63	XDR B	E4	---	**	132	105
99985	59/80 R 63	XDR B	E4	---	**	146	116
57879	27.00 R 49	XDR B4	E4	---	**	95	75
98534	33.00 R 51	XDR B4	E4	---	**	110	87
87111	36.00 R 51	XDR B4	E4	---	**	122	97
55592	37.00 R 57	XDR B4	E4	---	**	122	97
48755	40.00 R 57	XDR B4	E4	---	**	122	97
51976	50/90 R 57	XDR B4	E4	---	**	135	107
94329	53/80 R 63	XDR B4	E4	---	**	132	105
30587	56/80 R 63	XDR B4	E4	---	**	132	105
60149	59/80 R 63	XDR B4	E4	---	**	146	116
49473	40.00 R 57	XDR C	E4	---	**	122	97
62602	27.00 R 49	XDR C4	E4	---	**	95	75
91900	33.00 R 51	XDR C4	E4	---	**	110	87
97663	37.00 R 57	XDR C4	E4	---	**	122	97
84964	40.00 R 57	XDR C4	E4	---	**	122	97
46349	50/90 R 57	XDR C4	E4	---	**	135	107
72080	53/80 R 63	XDR C4	E4	---	**	132	105
90607	56/80 R 63	XDR C4	E4	---	**	132	105
56935	59/80 R 63	XDR C4	E4	---	**	146	116
XDT							
68272	27.00 R 49	XDT A	E4	---	**	91	72
46374	18.00 R 33	XDT A4	E4	---	**	67	53
94773	21.00 R 35	XDT A4	E4	---	**	74	59
65909	24.00 R 35	XDT A4	E4	---	**	83	66
43037	24.00 R 49	XDT A4	E4	---	**	86	68
63851	27.00 R 49	XDT A4	E4	---	**	91	72
61642	33.00 R 51	XDT A4	E4	---	**	109	87
57305	18.00 R 33	XDT B	E4	---	**	67	53
88632	24.00 R 35	XDT B	E4	---	**	83	66
63786	27.00 R 49	XDT B	E4	---	**	91	72
53227	33.00 R 51	XDT B	E4	---	**	109	87
93342	24.00 R 35	XDT C4	E4	---	**	83	66

MSPN	SIZE	TREAD	Classification	ISO	STAR	32nds	MM
XF							
05876	18R19..5	XF	L2	---	*	23	18
XGC							
30079	445/80 R 25	XGC	E2	170E	---	35	28
38256	525/80 R 25	XGC	E2	179E	---	39	31
XGLA2							
15924	14.00 R 24	XGLA2	G2,L2	---	*	31	25
45611	16.00 R 24	XGLA2	G2,L2	---	*	35	28
XHA							
25042	15.5 R 25	XHA	L3	---	*	33	26
35052	17.5 R 25	XHA	L3	---	*	34	27
31836	20.5 R 25	XHA	L3	---	*	39	31
30826	23.5 R 25	XHA	L3	---	*	43	34
14668	26.5 R 25	XHA	L3,E3	---	*	47	37
00910	29.5 R 25	XHA	L3,E3	---	*	50	40
XHA 2							
	20.5 R 25	XHA 2	L3	---	*		
65791	23.5 R 25	XHA 2	L3	---	*	45	36
65348	26.5 R 25	XHA 2	L3,E3	---	**	51	41
	29.5 R 25	XHA 2	L3,E3	---	**		
X-HAUL							
58887	18.00 R 33	X-HAUL	E4	---	**	61	47
89581	24.00 R 35	X-HAUL	E4	---	**	76	60
08931	21.00 R 33	X-HAUL S	E4	---	**	66	53
XHD1 A							
34694	16.00 R 25	XHD1A	E4	---	**	54	43
34710	18.00 R 25	XHD1A	E4	---	**	59	47
34504	14.00 R 25	XHD1A ***	E4	---	***	48	38
XKA							
06809	12.00 R 24	XKA	E3	---	***	26	21
06866	14.00 R 24	XKA	E3	---	***	30	24
65383	21.00 R 25	XKA	L3	---	**	42	33
XKD1							
06874	14.00 R 24	XKD1A	E4	---	***	47	37
12336	18.00 R 25	XKD1A	E4	---	**	59	47
81726	50/80 R 57	XKD1 B	E4	---	**	104	83
44537	53/80 R 63	XKD1 B	E4	---	**	112	88
74128	55/80 R 63	XKD1 B	E4	---	**	106	84
98908	55/80 R 63	XKD1 B4	E4	---	**	106	84
68972	53/80 R 63	XKD1 C4	E4	---	**	112	88
86962	55/80 R 63	XKD1 C4	E4	---	**	106	84

EARTHMOVER TREAD DEPTH CHART

MSPN	SIZE	TREAD	Classification	ISO	STAR	32nds	MM
XLD D1 / D2							
70042	26.5 R 25	XLD D1 A	L4	---	*	67	53
90432	29.5 R 25	XLD D1 A	L4	---	*	73	58
51948	45/65 R 45	XLD D1 A	L4	---	*	95	75
33617	35/65 R 33	XLD D1 A **	L4	---	**	76	60
37608	17.5 R 25	XLD D2 A	L5	---	*	79	63
79084	20.5 R 25	XLD D2 A	L5	---	*	91	72
58159	23.5 R 25	XLD D2 A	L5	---	*	98	78
33046	26.5 R 25	XLD D2 A	L5	---	*	110	87
28230	29.5 R 25	XLD D2 A	L5	---	*	118	94
52185	29.5 R 29	XLD D2 A	L5	---	*	120	95
14466	35/65 R 33	XLD D2 A	L5	---	*	122	97
63953	45/65 R 39	XLD D2 A	L5	---	*	145	115
79806	45/65 R 45	XLD D2 A	L5	---	*	146	116
XLD L3							
86785	550/65 R 25	XLD L3	L3	---	*	40	32
82704	600/65 R 25	XLD L3	L3	---	*	43	34
90278	650/65 R 25	XLD L3	L3	---	*	47	37
50629	750/65 R 25	XLD L3	L3	---	*	52	41
45325	800/65 R 29	XLD L3	L3	---	*	62	49
XM47 / XCML							
13902	11LR16	XM27	R4	122A8	---	29	23
43043	405/70R20	XM47	R4	136G	---	35	28
75328	425/75R20	XM47	R4	148G	---	38	30
45627	445/70R24	XM47	R4	151G	---	43	34
25391	280/80R18	XMCL™	R4	132A8/132B	---	35	28
32621	280/80R20	XMCL™	R4	133A8/B	---	35	28
24643	340/80R18	XMCL™	R4	143A8/B	---	35	28
00733	340/80R20	XMCL™	R4	144A8/B	---	35	28
03424	380/75R20	XMCL™	R4	148A8/B	---	37	29
02871	400/70R20	XMCL™	R4	149A8/B	---	37	29
19152	420/75R20	XMCL™	R4	154A8/B	---	38	30
34933	440/80R24	XMCL™	R4	161A8/B	---	40	32
94482	440/80R28	XMCL™	R4	156A8/B	---	40	32
70333	460/70R24	XMCL™	R4	159A8/B	---	43	34
16032	480/80R26	XMCL™	R4	160A8/B	---	44	35
89582	500/70R24	XMCL™	R4	164A8/B	---	45	36
XMH S							
12407	385/95 R 24	XMH S	E2	170E	---	30	24
21608	385/95 R 25	XMH S	E2	170E	---	30	24
XMS							
41324	40.5/75 R 39	XMS A	E3	---	**	64	51
93211	40.5/75 R 39	XMS B	E3	---	**	64	51
X-QUARRY							
59311	18.00 R 33	X-QUARRY	E4	---	**	78	63
59829	24.00 R 35	X-QUARRY	E4	---	**	86	68
15155	18.00 R 33	X-QUARRY-S	E4	---	**	78	63
93536	24.00 R 35	X-QUARRY-S	E4	---	**	86	68

MSPN	SIZE	TREAD	Classification	ISO	STAR	32nds	MM
XR							
08003	18.00 R 33	XR B	E2/E3	---	**	35	28
28035	14.00 R 24	XR A	G3/L3	---	*	28	22
08615	24.00 R 49	XR B	E2/E3	---	**	47	37
85992	36.00 R 51	XR C4	E2/E3	---	**	67	53
XRDN							
28662	35/65 R 33	XRDN	L3	---	*	48	38
XRS							
45909	37.5 R 39	XRS	E4	---	**	71	57
75762	37.25 R 35	XRS B	E4	---	**	67	53
X-SUPER TERRAIN AD							
13954	23.5 R 25	X-SUPER TERRAIN AD	E4	185B	---	66	52
07638	26.5 R 25	X-SUPER TERRAIN AD	E3	193B	---	68	54
09041	29.5 R 25	X-SUPER TERRAIN AD	E3	200B	---	76	60
XSM D2+							
80803	12.00 R 24	XSM D2 +	L5S	---	---	71	57
80802	14.00 R 24	XSM D2 +	L5S	---	---	73	58
80809	17.5 R 25	XSM D2 +	L5S	---	---	96	77
80804	18.00 R 25	XSM D2 +	L5S	---	---	119	95
80807	26.5 R 25	XSM D2 +	L5S	---	---	126	101
41000	35/65 R 33	XSM D2 +	L5S	---	---	122	97
X-STRADDLE							
17688	16.00 R 25	X-STRADDLE	E3	200A5	36	62	50
XTLA							
94687	15.5 R 25	XTLA	G2,L2	---	*	33	26
04118	17.5 R 25	XTLA	G2,L2	---	*	35	28
09122	20.5 R 25	XTLA	G2,L2	---	*	39	31
49977	23.5 R 25	XTLA	G2,L2,E2	---	*	43	34
64593	550/65 R 25	XTLA	G2,L2	---	*	42	33
XTS							
46731	29.5 R 29	XTS	E3	---	**	47	37
64173	29.5 R 35	XTS	E3	---	**	50	40
76725	33.25 R 29	XTS	E3	---	**	55	44
54190	37.25 R 35	XTS	E3	---	**	59	47
XVC							
06957	27.00 R 49	XVC	E2	---	**	42	33

EARTHMOVER TREAD DEPTH CHART

MSPN	SIZE	TREAD	Classification	ISO	STAR	32nds	MM
XZM							
42890	10.00 R 20	XZM	---	166A5	18	44	35
74767	11.00 R 20	XZM	---	169A5	18	48	38
78891	12.00 R 20	XZM	---	176A5	20	50	40
42105	12.00 R 24	XZM	---	178A5	24	50	40
93269	14.00 R 24	XZM	---	193A5	32	80	63
61590	16.00 R 25	XZM	---	200A5	36	90	71
55844	18.00 R 25	XZM	---	207A5	36	80	63
64585	180/70 R 8	XZM	---	125A5	16	24	19
59673	225/75 R 10	XZM	---	142A5	20	30	24
55324	225/75 R 15	XZM	---	149A5	16	34	27
50988	250/70 R 15	XZM	---	153A5	18	35	28
51744	250/75 R 12	XZM	---	153A5	20	35	28
85047	315/70 R 15	XZM	---	165A5	18	44	35
45525	355/65 R 15	XZM	---	175A5	20	44	35
86381	5.00 R 8	XZM	---	111A5	10	30	24
50734	6.00 R 9	XZM	---	121A5	12	31	25
54636	6.50 R 10	XZM	---	128A5	14	34	27
71359	7.00 R 12	XZM	---	136A5	16	35	28
85869	7.00 R 15	XZM	---	143A5	14	37	29
62488	7.50 R 15	XZM	---	146A5	16	38	30
56370	8.25 R 15	XZM	---	153A5	18	42	33
87259	9.00 R 20	XZM	---	160A5	18	42	33
XZM2							
09703	18.00 R 25	XZM2	---	207A5	36	98	78
XZR							
68425	6.00 R 9	XZR	---	121A5	---	13	10
62234	7.00 R 12	XZR	---	136A5	---	14	11
XZSL							
44533	335/80R18	XZSL	L3	151A2/139B	---	33	26
65249	335/80R20	XZSL	L3	153A2/141B	---	32	25
57791	375/75R20	XZSL	L3	155A2/143B	---	37	29
94628	405/70R20	XZSL	L3	155A2/143B	---	38	30
64875	425/75R20	XZSL	L3	167A2/155B	---	37	29

NOTES

NOTES

NOTES

MICHELIN NORTH AMERICA, INC.
One Parkway South, P.O. Box 19001
Greenville, South Carolina 29602-9001
1-877-574-8473

MICHELIN NORTH AMERICA (CANADA), INC.
3020 Avenue Jacques-Bureau
Laval, Quebec H7P 6G2
1-800-361-0084

MICHELIN MEXICO
Av. 5 de Febrero No. 2113-A
Fracc. Industrial Benito Juarez
Querétaro, Qro. C.P. 76120
442 296 16 00

www.michelinearthmover.com

An Equal Opportunity Employer

MEL40017 (08/10)

Printed on FSC Certified Paper.