

BRIDGESTONE



DATA BOOK

OFF-THE-ROAD TIRES



GENERAL INFORMATION

RADIAL TIRE

BIAS TIRE

O-RING, FLAP, RIM, VALVE, CONVERSION TABLES

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Due to the constant advance of tire technology, the contents of this data book are subject to change without notice.

CONTENTS

INTRODUCTION

1. Industry Standard	1
2. Application Vehicle Matching Chart	1

GENERAL INFORMATION

1. Structural Diagram	2
2. Definitions	3
3. Classification	4
4. Tire Markings	6

RADIAL TIRE

1. Tread Designs	11
2. Application	16
3. Technical Data	22
4. Remarks	52

BIAS TIRE

1. Tread Designs	54
2. Application	56
3. Technical Data	62
4. Remarks	82

OTHER SPECIFICATION

1. O-Ring Specifications	84
2. Flap Specifications	84
3. Rim and Valve	85

OTHER INFORMATION

1. Unit Conversion Tables	92
2. Specific Weight (Approximately)	95

INTRODUCTION

1. Industry Standard

Bridgestone Corporation has developed a wide range of tire patterns and specifications, so that the proper Off-the-Road tire can be matched to any vehicle, service, or operating conditions.

Bridgestone's Off-the-Road tires are designed and produced to meet the commonly accepted international standards, those set by the TRA (Tire and Rim Association) in the U.S.A., by the ETRTO (European Tire and Rim Technical Organization) in Europe and/or by the JATMA (Japan Automobile Tire Manufacturers' Association) in Japan*.

Load capacities, inflation pressures, dimensions such as overall tire diameter and width, as well as the relative rims and tube valves follow these standards.

If a tire is to be used for a purpose other than that for which it is originally intended, please consult Bridgestone Corporation for advice.

*Where differences exist between the TRA, ETRTO and JATMA standards, Bridgestone selects the most applicable.

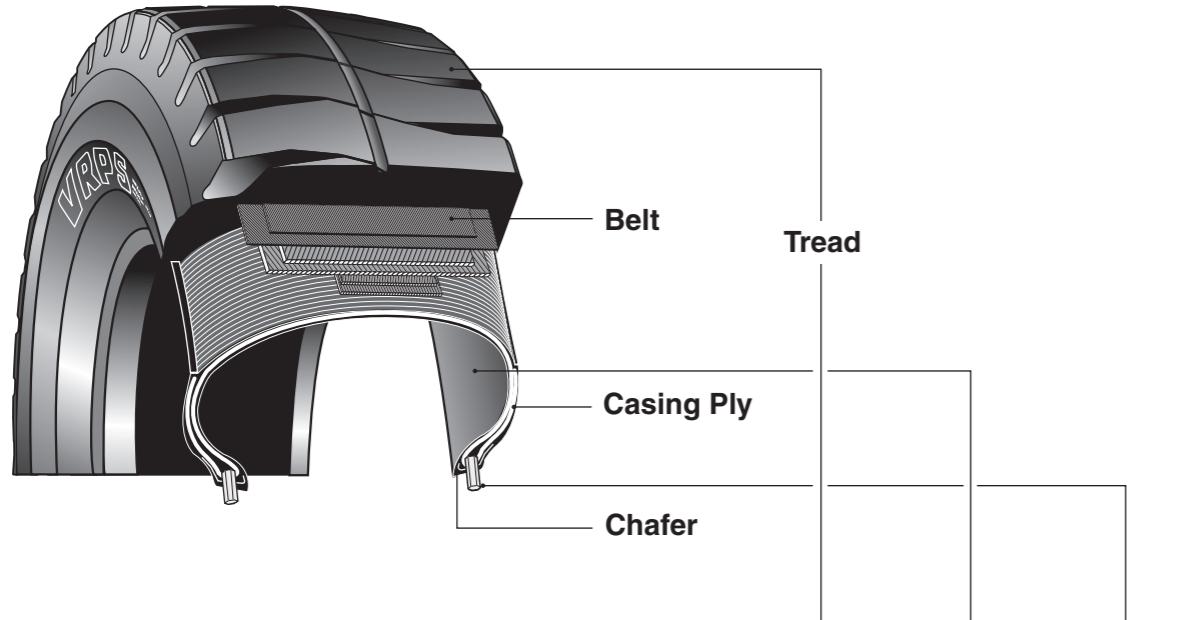
2. Application Vehicle Matching Chart

APPLICATION	VEHICLE
Earthmover Service	Dump Trucks, Motor Scrapers, Articulated Dump Trucks, Coal Haulers, Logging Trucks, Other Mining Trucks, etc.
Grader Service	Motor Graders
Loader & Dozer Service	Front-End Loaders, Back-hoe Loaders, Skid Steer Loaders, Dozers, Shuttle Trucks, Load-Haul-Dumps, etc.
Mobile Crane Service (High-Speed)	All-Terrain Cranes, High-Speed Vehicles,etc.
Industrial Service	Straddle Carriers, Aircraft Towing Tractors, Container Stackers, Counter-balanced Lift Trucks, Mobile Crushers, Log Stackers, etc.
Logging Service	Log-Skidders
Compactor Service	Compactor, Road Rollers
Sand Service	Sand Service Trucks

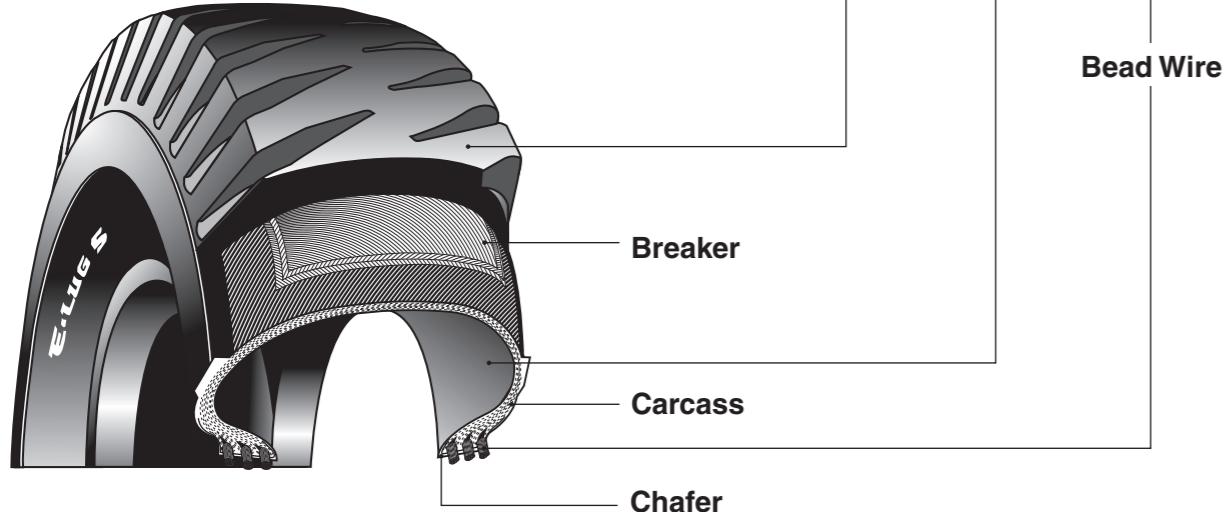
GENERAL INFORMATION

1. Structural Diagram

Off-The-Road Radial Tire (ORR)



Off-The-Road Bias Tire (ORS)



2. Definitions

2.1 Tire Size

The size of each tire is indicated by nominal width and rim diameter in inches and mm.

Radial structure is indicated by the letter "R". For some tire the aspect ratio is indicated by percentage.

Example

Radial Tire ; 40.00R57, 33.25R35, 445/95R25

Bias Tire ; 30.00-51, 45/65-45

2.2 Star Rating, Ply Rating and Load Index

The load capacity of a tire is indicated by the star rating (in case of radial tire) and the ply rating (in case of bias tire).

The load index is applied in countries where the ETRTO standards are used.

2.3 Overall Diameter (OD)

"Overall Diameter" is twice the section height of a new tire, plus the nominal rim diameter, including 24-hour inflation growth.

2.4 Overall Width (OW)

"Overall Width" is the width of a new tire, including 24-hour inflation growth, and including protective side ribs, bars or decorations.

2.5 Section Width (SW)

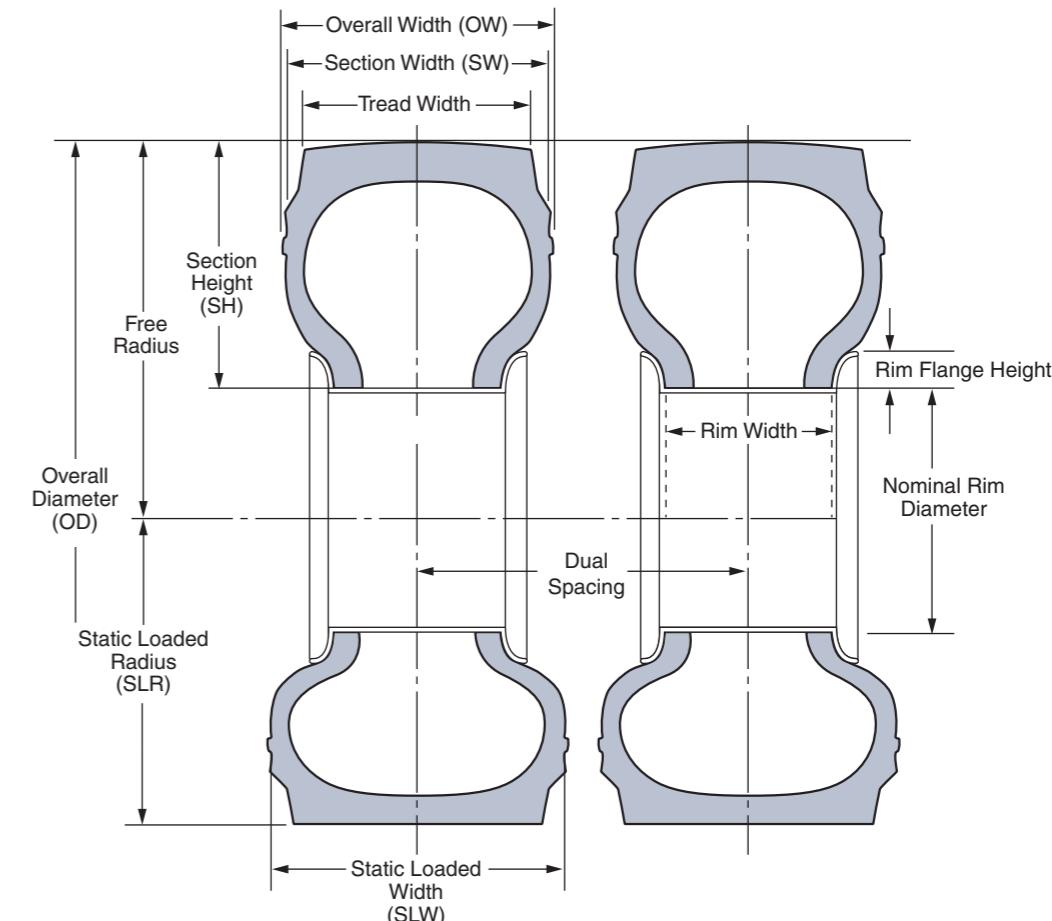
"Section Width" is the width of a new tire, including 24-hour inflation growth and including normal sidewalls, but not including protective side ribs, bars, or decorations.

2.6 Static Loaded Radius and Width (SLR, SLW)

"Static Loaded Radius" is the shortest distance from the axle center to the contact surface of a tire and "Static Loaded Width" is the overall width of a tire, mounted on the approved rim at the specified inflation pressure and placed still and vertically on a flat board, and loaded with the specified load.

2.7 Original Tread Depth (OTD)

"Original Tread Depth" is the tread depth of a new tire measured at the point of tread-indicator where available or one-fourth the width of the tire crown section from the crown center, including 24-hour inflation growth.



3. Classification

3.1 Uses and Characteristics of Off-The-Road Tires

The characteristics that Off-The-Road tires must possess differ according to their function and the type of vehicles they are mounted on.

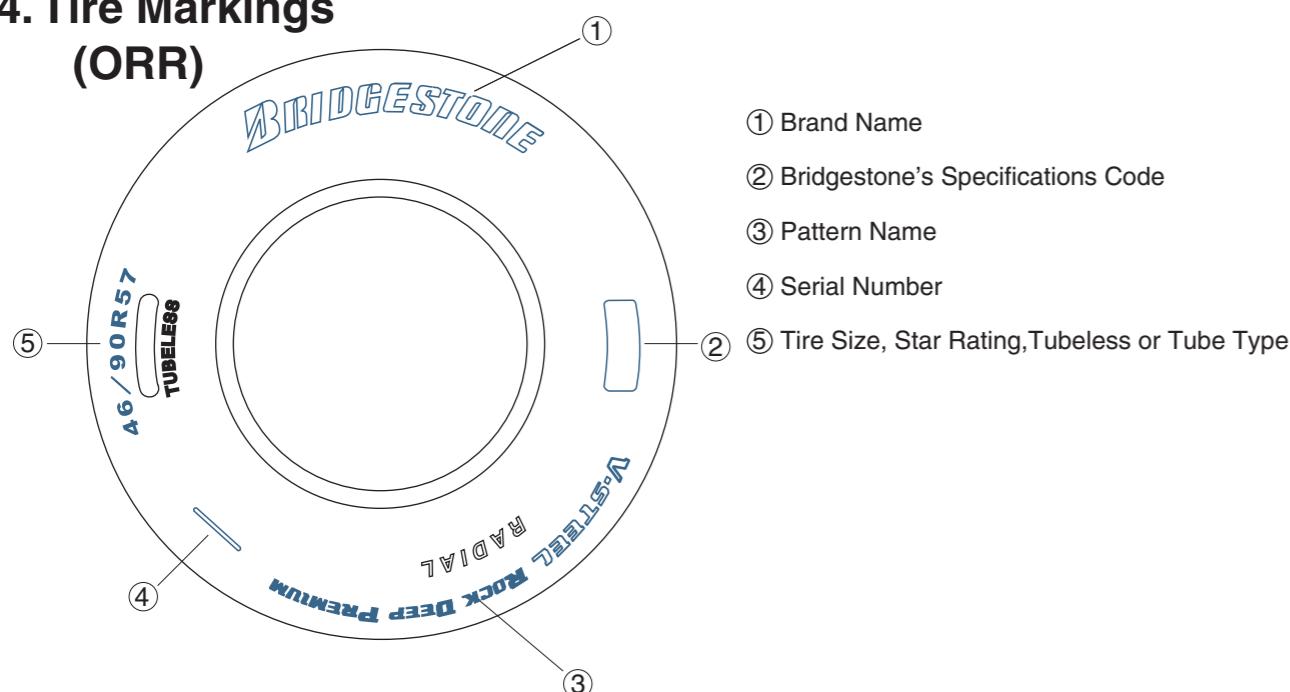
Type/Service	Function	Vehicles	Main tire characteristics required
Earthmover	Transporting	Rigid dump trucks Articulated dump trucks Coal haulers Scrapers Off road trucks	Heat-resistance, Cut-resistance, Wear-resistance, Shock burst-resistance
Grader	Grading, Leveling	Graders	Traction, Maneuverability, (directional stability)
Loader and dozer	Loading and dozing	Loaders, Bulldozers LHDs	Cut-resistance, Wear-resistance Stability
Compactor	Compacting	Tire-rollers	Oil-resistance, Cut-resistance, Wear-resistance
Logging	Log-skidding	Log-skidders	Traction, Flotation, Cut-resistance
Mobile crane (High-speed)	High-speed Travelling	All-Terrain Cranes	Heat-resistance, Wear-resistance, Traction
Industrial	Handling & Towing	Handling & Towing Equipments	Uneven wear, Wear-resistance, Stability

3.2 TRA Classification and Corresponding Bridgestone Off-The-Road Tires

Off-The-Road tires are classified by the TRA as follows, and the names of the tread patterns of the corresponding Bridgestone Off-The-Road tires are described below.

TRA Classification	Tread Type	Bridgestone Tread Pattern	
		Radial	Bias
E= Earthmover (Haulage Service)			
E-2	Traction	VUT VKT VSB VFT VHS VSW VLT VMT VTS VEL VRL VRF L317 VLTS VSNT VMTS VMTP VZTS VZTP VELSL VELS VRLS VREP VRDP VRPS VRQP VSJ	WL RL VL2 RLS ELS2 SCP2
E-3	Rock		
E-4	Rock Deep		
E-7	Flotation		
G=Grader			
G-1	Rib	VUT VKT VSW	RG
G-2	Traction		GL FG
G-3	Rock		RL
G-4	Rock Deep	VMTS	
L=Loader & Dozer (Slow Speed Service)			
L-2	Traction Regular	VUT VKT VSW	GL FG
L-3	Rock Regular	VLT VMT VJT VTS	RL VL2
L-4	Rock Deep	VLTS VSNT VSNL	RLS NL
L-5	Rock Extra-Deep	VSDT VSDL	DL
L-5S	Smooth Extra-Deep	VSMS	STMS
C=Compactor Service			
C-1	Smooth		RR
C-2	Grooved		AL2
LS=Logging Service			
LS-2	Intermediate		TGS
Mobile Crane Service (High-Speed)			
Mobile Crane Service		VGT VSB VHB VHS VSW	
Industrial Service			
Industrial Service		VHB VEL VCH VCHD VCHS VELS VRLS VSDL VSMS	RL RLS ELS2 STMS YS2
Design Tread-Depth			
Regular Tread		E-2/E-3 L-2/L-3 G-2/G-3	
Deep Tread		E-4 L-4 G-4	
Extra Deep Tread			L-5/L-5S

4. Tire Markings (ORR)

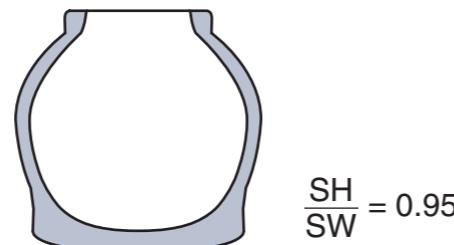


4.1 Type of Tire Size Designation

Regular **27.00 R 49 ★★**

- Star Rating
- Rim Diameter (inches)
- Radial Structure
- Section Width (inches)

* Tire Aspect Ratio



Wide Base **33.25 R 35 ★★**

- Star Rating
- Rim Diameter (inches)
- Radial Structure
- Section Width (inches)

Super Wide Base **40 / 65 - 39 30PR**

- Ply Rating
- Rim Diameter (inches)
- Aspect Ratio 65 Series
- Section Width (inches)

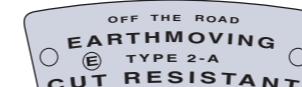
170 E 385 / 95 R 24

- Rim Diameter (inches)
- Radial Structure
- Aspect Ratio 95 Series
- Section Width (mm)
- Speed Symbol
- Load Index

* SH, SW : See Page 3

4.2 Type of Tire Structures Classified by Service and Designated by Bridgestone

Each Bridgestone tire has a Bridgestone code number on the tire sidewall according to its specifications.



For Earthmover service



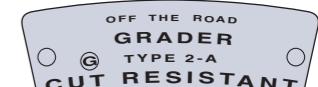
For Industrial service



For Loader and Dozer service



For Mobile Crane Service



For Grader service

Tire Structures Classified by Type of Service and Bridgestone's Designations

Service	BS Code No.	Structure
Earthmover Service (E)	1A	Standard
	2A	Cut-resistant
	3A	Heat-resistant
Grader Service (G)	1A	Standard
	2A	Cut-resistant
Loader & Dozer Service (D)	2A	Cut-resistant
	2V*	Special cut-resistant (Type "V")
	2Z*	Special cut-resistant (Type "Z")
Logging Service (S)	2V	**Standard

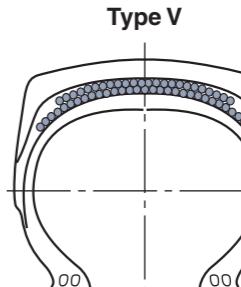
NOTES: *Bias Tire Only

**2V tires are standard for log skidder service since the possibility of the cutting is high in log skidder operations.

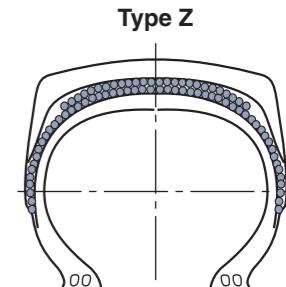
D 2 A

- Structure:
 - A: Standard
 - V: Cut-resistant type "V" (Steel Breaker)
 - Z: Cut-resistant type "Z" (Side Steel Breaker)
- Characteristics:
 - 1: Standard
 - 2: Cut-resistant
 - 3: Heat-resistant
- Type of Service:
 - E: Earthmover
 - G: Grader
 - D: Loader & Dozer
 - S: Logging

Steel Breaker Tire



Steel breaker construction



Side steel breaker construction

Steel Breaker Bias Tire

Steel Breaker Off-the-Road tires feature breaker material which is changed from nylon to steel in order to resist cutting and cut bursting. Bridgestone Steel Breaker Off-the-Road tires are widely used on loaders at mining and quarry sites, loaders and shuttle trucks in underground mines, and also on log loaders.

Side Steel Breaker Bias Tire

In this tire the steel breaker extends to the sidewall of the tire to protect it against damage. The construction is similar to that described above.

4.3 Load Index

The LOAD INDEX is an international numerical code for the maximum load a tire can carry at the speed indicated by its speed symbol under service conditions specified by Bridgestone.

LI	kg	LI	kg	LI	kg	LI	kg	LI	kg	LI	kg
0	45	50	190	100	800	150	3 350	200	14 000	250	60 000
1	46.2	51	195	101	825	151	3 450	201	14 500	251	61 500
2	47.5	52	200	102	850	152	3 550	202	15 000	252	63 000
3	48.7	53	206	103	875	153	3 650	203	15 500	253	65 000
4	50	54	212	104	900	154	3 750	204	16 000	254	67 000
5	51.5	55	218	105	925	155	3 875	205	16 500	255	69 000
6	53	56	224	106	950	156	4 000	206	17 000	256	71 000
7	54.5	57	230	107	975	157	4 125	207	17 500	257	73 000
8	56	58	236	108	1 000	158	4 250	208	18 000	258	75 000
9	58	59	243	109	1 030	159	4 375	209	18 500	259	77 500
10	60	60	250	110	1 060	160	4 500	210	19 000	260	80 000
11	61.5	61	257	111	1 090	161	4 625	211	19 500	261	82 500
12	63	62	265	112	1 120	162	4 750	212	20 000	262	85 000
13	65	63	272	113	1 150	163	4 875	213	20 600	263	87 500
14	67	64	280	114	1 180	164	5 000	214	21 200	264	90 000
15	69	65	290	115	1 215	165	5 150	215	21 800	265	92 500
16	71	66	300	116	1 250	166	5 300	216	22 400	266	95 000
17	73	67	307	117	1 285	167	5 450	217	23 000	267	97 500
18	75	68	315	118	1 320	168	5 600	218	23 600	268	100 000
19	77.5	69	325	119	1 360	169	5 800	219	24 300	269	103 000
20	80	70	335	120	1 400	170	6 000	220	25 000	270	106 000
21	82.5	71	345	121	1 450	171	6 150	221	25 750	271	109 000
22	85	72	355	122	1 500	172	6 300	222	26 500	272	112 000
23	87.5	73	365	123	1 550	173	6 500	223	27 250	273	115 000
24	90	74	375	124	1 600	174	6 700	224	28 000	274	118 000
25	92.5	75	387	125	1 650	175	6 900	225	29 000	275	121 000
26	95	76	400	126	1 700	176	7 100	226	30 000	276	125 000
27	97	77	412	127	1 750	177	7 300	227	30 750	277	128 000
28	100	78	425	128	1 800	178	7 500	228	31 500	278	132 500
29	103	79	437	129	1 850	179	7 750	229	32 500	279	136 000
30	106	80	450	130	1 900	180	8 000	230	33 500		
31	109	81	462	131	1 950	181	8 250	231	34 500		
32	112	82	475	132	2 000	182	8 500	232	35 500		
33	115	83	487	133	2 060	183	8 750	233	36 500		
34	118	84	500	134	2 120	184	9 000	234	37 500		
35	121	85	515	135	2 180	185	9 250	235	38 750		
36	125	86	530	136	2 240	186	9 500	236	40 000		
37	128	87	545	137	2 300	187	9 750	237	41 250		
38	132	88	560	138	2 360	188	10 000	238	42 500		
39	136	89	580	139	2 430	189	10 300	239	43 750		
40	140	90	600	140	2 500	190	10 600	240	45 000		
41	145	91	615	141	2 575	191	10 900	241	46 250		
42	150	92	630	142	2 650	192	11 200	242	47 500		
43	155	93	650	143	2 725	193	11 500	243	48 750		
44	160	94	670	144	2 800	194	11 800	244	50 000		
45	165	95	690	145	2 900	195	12 150	245	51 500		
46	170	96	710	146	3 000	196	12 500	246	53 000		
47	175	97	730	147	3 075	197	12 850	247	54 500		
48	180	98	750	148	3 150	198	13 200	248	56 000		
49	185	99	775	149	3 250	199	13 600	249	58 000		

4.4 Speed Symbol

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

Speed Symbol	Speed (km/h)
A1	5
A2	10
A3	15
A4	20
A5	25
A6	30
A7	35
A8	40

Speed Symbol	Speed (km/h)
B	50
C	60
D	65
E	70
F	80
G	90

4.5 Conversion Table: Star Rating to Ply Rating

Service	Tire Size	Star Rating	Corresponding Ply Rating
Earthmover	12.00R24	***	up to 24
	14.00R24	***	up to 32
	14.00R25	***	up to 32
	16.00R25	**	up to 36
	18.00R25	*	up to 24
	18.00R33	**	up to 36
	21.00R35	**	up to 40
	40.00R57	**	up to 74
	17.5R25	*	up to 16
	20.5R25	*	up to 24
	25.0R25	**	up to 32
	25.65R25	**	up to 32
	23.5R25	*	up to 24
	26.5R25	**	up to 32
	29.5R25	*	up to 28
	29.5R29	**	up to 34
	35/65R33	*	up to 36
	45/65R45	*	up to 50

Service	Tire
---------	------

RADIAL TIRE

4.6 Size Conversion Table

Metric	Inch
385/95R24, 25	14.00R24, 25
445/95R24, 25	16.00R24, 25
445/80R25	17.5R25
505/95R25	18.00R25
525/80R25	20.5R25
750/65R25	30/65R25

4.7 Dual Specification Codes

Some Bridgestone Off-The-Road Tires have dual specification codes which can be used for both services.

Combination	Construction	Size Designation
Loader & Dozer Service + Earthmover Service	Radial	26.5R25 MS* VLT T DE2 └─────────┘ *1 D2A *2 E2A
	Bias	26.5 – 25 20 VL2 T DE2 └─────────┘ D2A E2A
Loader & Dozer Service + Grader Service	Bias	17.5 – 25 12 FG T DG2 └─────────┘ D2A G2A
Earthmover Service + Grader Service	Radial	17.5R25 *1 VKT T EG2 └─────────┘ E2A G2A

* Multiple Star Rating

Bridgestone Radial Tires marked with "LOADER & DOZER ★(one star)" and "EARTHMOVER ★★(two star)" have specified load capacity on each servicing condition.

Strength of tire casing is designed to constrain inflation pressure used.

<26.5R25 as an example>

Type of Service	Star Rating	Inflation Pressure	Load (Load Index)	Speed (Speed Symbol)
Loader	★(one star)	5.00 bar	15,000 kgs (202)	10 km/hour (A2)
Earthmover	★★(two stars)	5.25 bar	11,500 kgs (190)	50 km/hour (B)



1. Tread Designs

■ Earthmover Service

E2



V-STEEL
ULTRA TRACTION
(VUT)



V-STEEL
K-TRACTION
(VKT)



V-STEEL
S-BLOCK
(VSB)

E2



V-STEEL
F-TRACTION
(VFT)



V-STEEL
H-SERVICE
(VHS)



V-STEEL
SNOW WEDGE
(VSW)

E3



V-STEEL
L-TRACTION
(VLT)



Wide Base
V-STEEL M-TRACTION
(VMT)



V-STEEL
TRACTION-STABILITY
(VTS)

E3



V-STEEL
E-LUG
(VEL)



Wide Base
V-STEEL R-LUG
(VRL)



Regular
V-STEEL R-LUG
(VRL)



V-STEEL
ROCK FAST
(VRF)

E4



14.00R24~
16.00R25



21.00R33~
37.00R57



V-STEEL
ROCK E-PREMIUM
(VREP)



V-STEEL
ROCK DEEP
PREMIUM (VRDP)

Sand Service

E4



L317



V-STEEL
L-TRACTION S
(VLTS)



V-STEEL
N-TRACTION
(VSNT)



V-STEEL
M-TRACTION S
(VMTS)



V-STEEL
M-TRACTION
PREMIUM (VMTP)



V-STEEL
ROCK PREMIUM
SERVICE (VRPS)



V-STEEL
ROCK QUARRY
PREMIUM (VRQP)



V-STEEL
JAMAL
(VSJ)

Grader Service

E4



V-STEEL
Z-TRACTION S
(VZTS)



V-STEEL
Z-TRACTION
PREMIUM (VZTP)



37.00R57
40.00R57



18.00R25~
21.00R35

40.00R57

50/90R57

31/90R49

46/90R57

VELS

V-STEEL E-LUG S (VELS)

G2



V-STEEL
U-TRACTION
(VUT)



V-STEEL
K-TRACTION
(VKT)



V-STEEL
SNOW WEDGE
(VSW)



V-STEEL
M-TRACTION S
(VMTS)

■ Loader & Dozer Service

L2



V-STEEL
U-TRACTION
(VUT)



V-STEEL
K-TRACTION
(VKT)



V-STEEL
SNOW WEDGE
(VSW)

L3



V-STEEL
L-TRACTION
(VLT)



V-STEEL
M-TRACTION
(VMT)

■ Mobile Crane Service (High-Speed)



V-STEEL
G-TRACTION
(VGT)



V-STEEL
S-BLOCK
(VSB)



V-STEEL
H-BLOCK
(VHB)



V-STEEL
HIGHWAY SERVICE
(VHS)



V-STEEL
SNOW WEDGE
(VSW)

■ Industrial Service

L3



V-STEEL
J-TRACTION
(VJT)



V-STEEL TRACTION-
STABILITY
(VTS)



V-STEEL
L-TRACTION S
(VLTS)

L4



V-STEEL
N-TRACTION
(VSNT)



V-STEEL
H-BLOCK
(VHB)



V-STEEL
E-LUG
(VEL)



V-STEEL
CONTAINER
HANDLER
(VCH)



V-STEEL
CONTAINER
HANDLER DEEP
(VCHD)



V-STEEL
CONTAINER
HANDLER STABILITY
AND SAFETY
(VCHS)

L5



V-STEEL
SUPER-DEEP
TRACTION (VSDT)



V-STEEL
D-LUG
(VSDL)



V-STEEL
SMOOTH
TREAD-MS
(VSMS)

L5S



V-STEEL
E-LUG S
(VELS)



V-STEEL
R-LUG S
(VRLS)



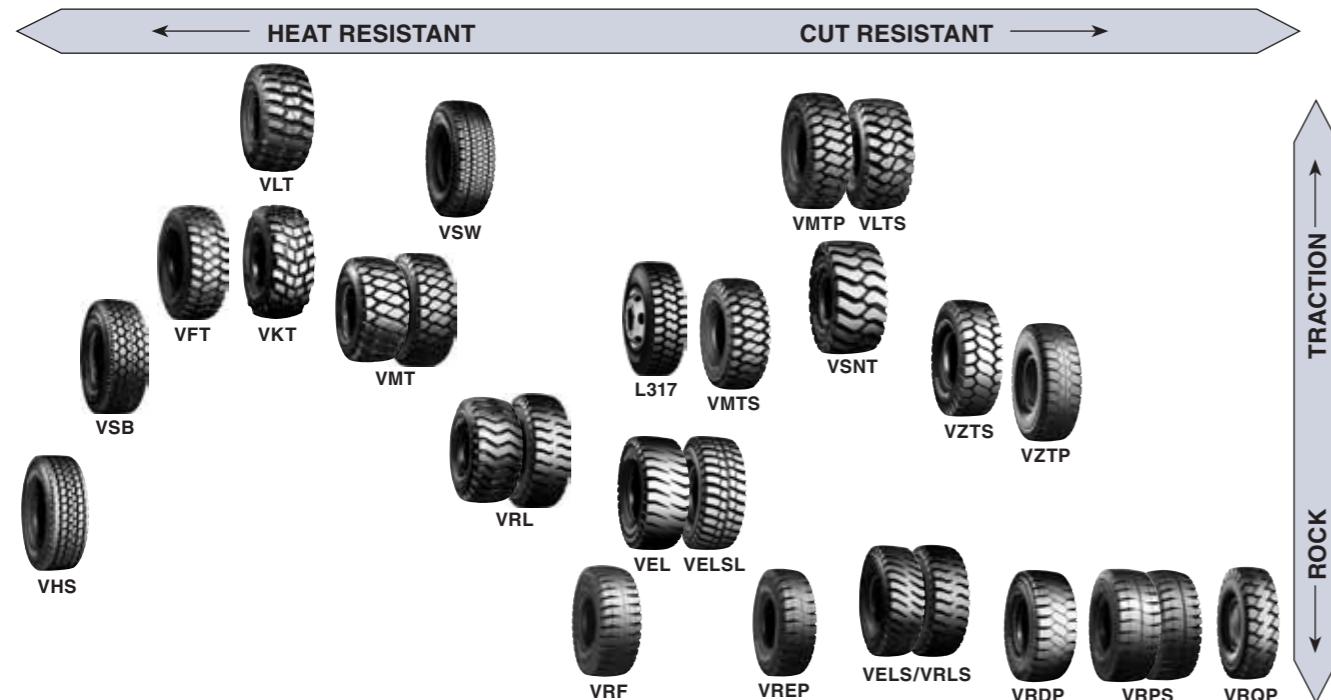
V-STEEL
D-LUG
(VSDL)



V-STEEL
SMOOTH TREAD-MS
(VSMS)

2. Application

■Earthmover Service



Size	Type	Star Rating
VUT(E2)		
335/80 R 20	T/L	
365/80 R 20	T/L	
405/70 R 20	T/L	

Size	Type	Star Rating
VHS(E2)		

Size	Type	Star Rating
VEL(E3)		
18.00 R 25	T/L	★2
18.00 R 33	T/L	★2
21.00 R 35	T/L	★2
24.00 R 35	T/L	★2

Size	Type	Star Rating
VKT(E2)		
14.00 R 24	T/T	★3
17.5 R 25	T/L	★1
18.00 R 25	T/L	★2
25/65 R 25	T/L	★2
29.5 R 25	T/L	★2
29.5 R 29	T/L	★2
37.5 R 39	T/L	★2

Size	Type	Star Rating
VSB(E2)		
14.00 R 24	T/T	★3
14.00 R 25	T/L	★3

Size	Type	Star Rating
VFT(E2)		
18.00 R 33	T/L	★2
24.00 R 49	T/L	★2
27.00 R 49	T/L	★2

Size	Type	Star Rating
VTS(E3)		

Size	Type	Star Rating
VMT(E3)		
17.5 R 25	T/L	★2
23.5 R 25	T/L	★2
29.5 R 25	T/L	★2
30.00 R 51	T/L	★2
33.00 R 51	T/L	★2
40.00 R 57	T/L	★2

Size	Type	Star Rating
VLTS(E4)		

Size	Type	Star Rating
L317		
11.00 R 20	T/T	★3
12.00 R 20	T/T	★3
12 R 22.5	T/L	★3
12.00 R 24	T/T	★3

Size	Type	Star Rating
VZTS(E4)		
20.5 R 25	T/L	MS
23.5 R 25	T/L	MS
750/65(30/65) R 25	T/L	★2
26.5 R 25	T/L	★2
29.5 R 25	T/L	★2

Size	Type	Star Rating
VLTS(E4)		
20.5 R 25	T/L	MS
23.5 R 25	T/L	MS
750/65(30/65) R 25	T/L	★2
26.5 R 25	T/L	★2
29.5 R 25	T/L	★2

T/T: Tube Type T/L: Tubeless Type

MS: Multiple Star Rating

* VSW is especially designed for snow surface operations.

Size	Type	Star Rating
VSNT(E4)		
26.5 R 25	T/L	MS
29.5 R 25	T/L	MS
29.5 R 29	T/L	MS

Size	Type	Star Rating
VZTP(E4)		

Size	Type	Star Rating
37.00 R 57	T/L	★2
40.00 R 57	T/L	★2

Size	Type	Star Rating
37.00 R 57	T/L	★2
40.00 R 57	T/L	★2

Size	Type	Star Rating
14.00 R 24	T/L	★2
18.00 R 33	T/L	★2
21.00 R 35	T/L	★2
14.00 R 25	T/L	★2

Size	Type	Star Rating
18.00 R 25	T/L	★2
21.00 R 35	T/L	★2
18.00 R 33	T/L	★2
31/90 R 49	T/L	★2
24.00 R 35	T/L	★2
27.00 R 49	T/L	★2

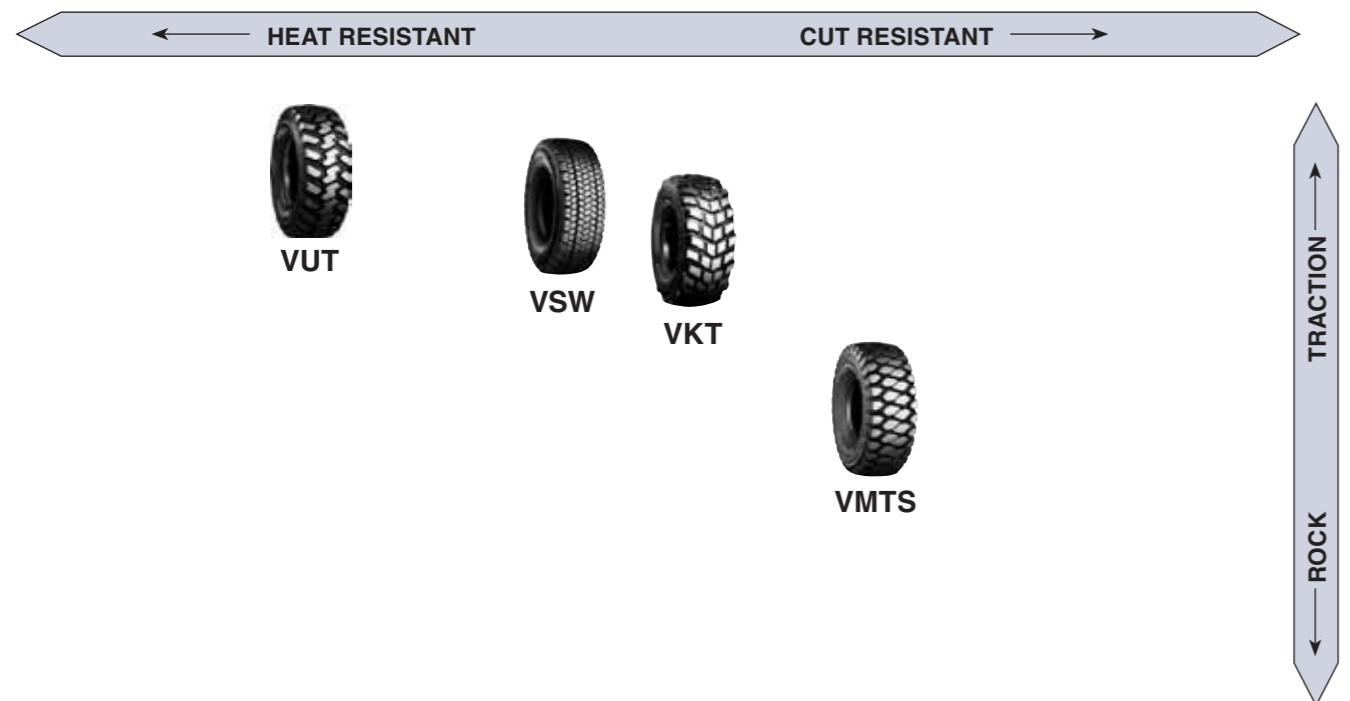
Size	Type	Star Rating
14.00 R 24	T/T	★3
18.00 R 33	T/L	★2
21.00 R 35	T/L	★2
16.00 R 25	T/L	★2

Size	Type	Star Rating
18.00 R 25	T/L	★2
21.00 R 35	T/L	★2
18.00 R 33	T/L	★2
31/90 R 49	T/L	★2
24.00 R 35	T/L	★2
27.00 R 49	T/L	★2

Size	Type	Star Rating

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■Grader Service



Size	Type	Star Rating
VUT(G2)		
13.00 R 24 TG	T/L	★1
14.00 R 24 TG	T/L	★1
15.5 R 25	T/L	★1★2
17.5 R 25	T/L	★1
20.5 R 25	T/L	★1
23.5 R 25	T/L	★1
VKT(G2)		
14.00 R 24 TG	T/L	★1
16.00 R 24 TG	T/L	★1
17.5 R 25	T/L	★1
* VSW(G2)		
14.00 R 24 TG	T/L	★1★3
16.00 R 24 TG	T/L	★1
17.5 R 25	T/L	★1
VMTS(G4)		
14.00 R 24 TG	T/L	★1

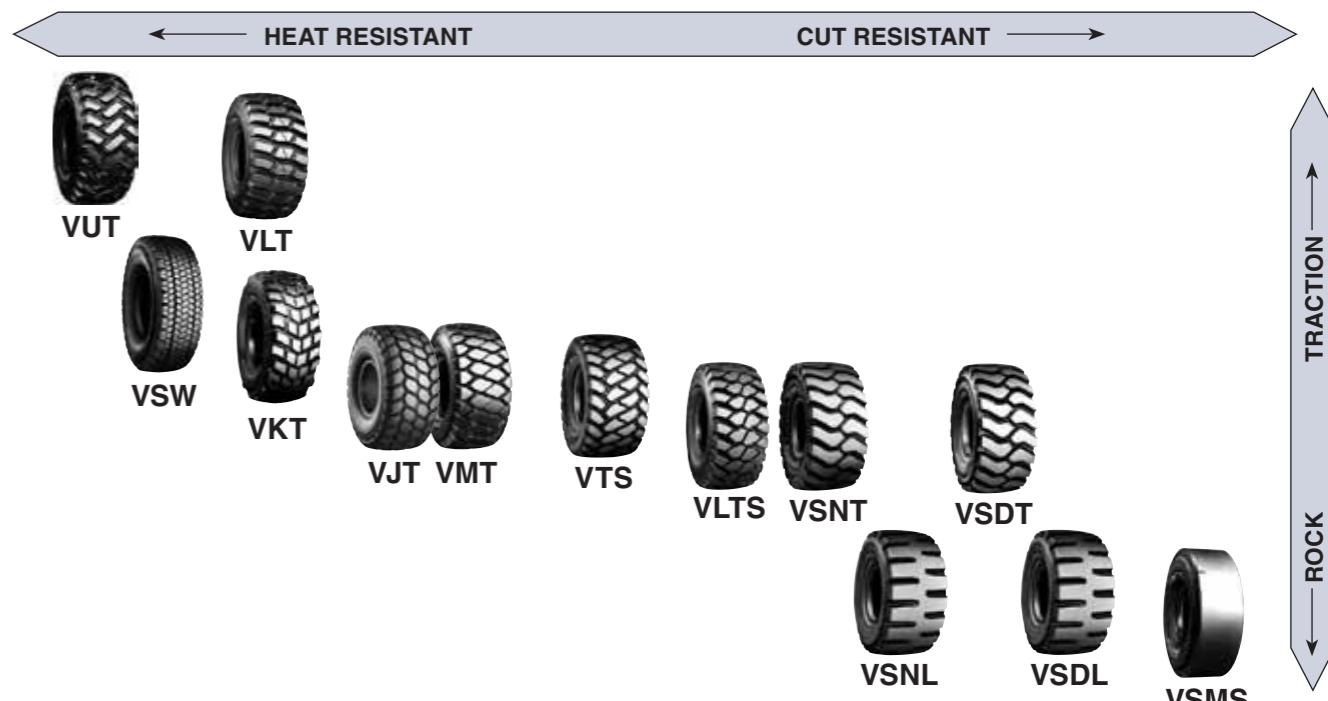
* VSW is especially designed for snow surface operations.

T/T: Tube Type

T/L: Tubeless Type

TG: For Semi-Drop Center Rim

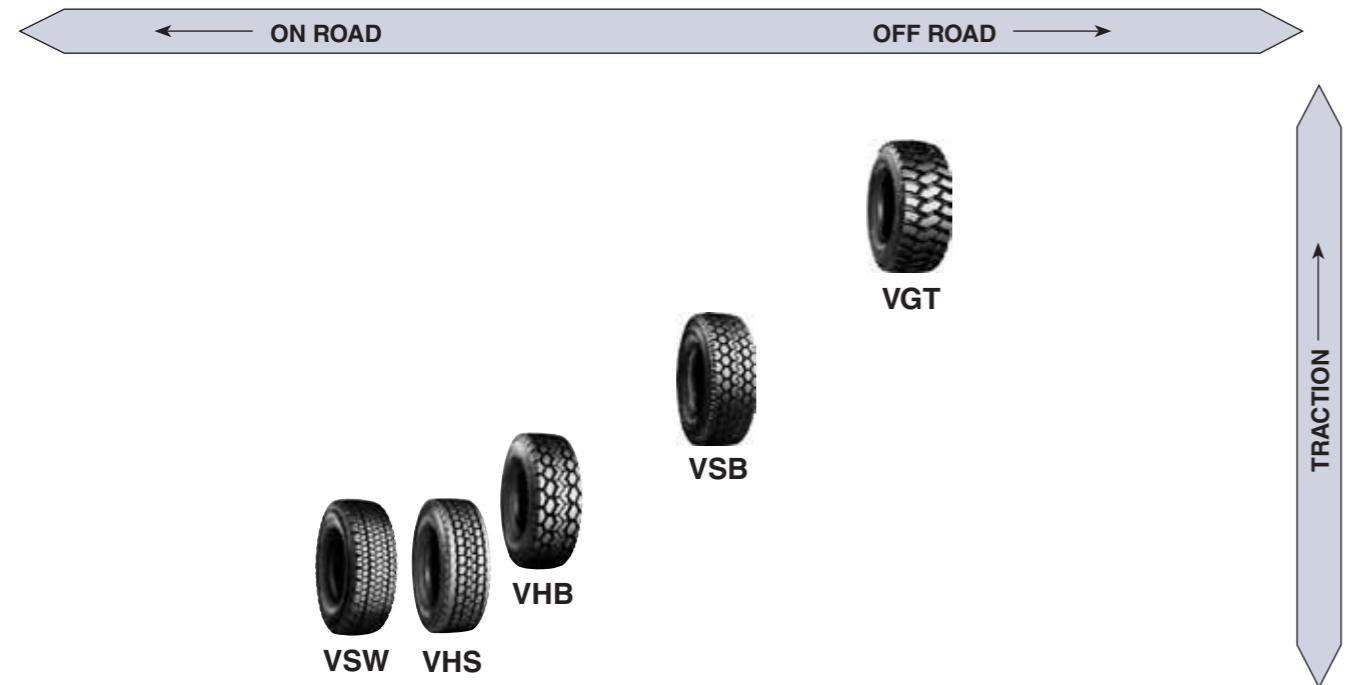
■Loader & Dozer Service



Size	Type	Star Rating
VUT(L2)		
335/80 R 20	T/L	
365/80 R 20	T/L	
405/70 R 20	T/L	
15.5 R 25	T/L	★1★2
17.5 R 25	T/L	★1
20.5 R 25	T/L	★1
23.5 R 25	T/L	★1
VMT(L3)		
17.5 R 25	T/L	★1★2
20.5 R 25	T/L	★1
23.5 R 25	T/L	★1
26.5 R 25	T/L	★1★2
29.5 R 25	T/L	★1
VKT(L2)		
14.00 R 24 TG	T/L	★1
15.5 R 25	T/L	★1
17.5 R 25	T/L	★1
20.5 R 25	T/L	★1
23.5 R 25	T/L	★1
26.5 R 25	T/L	★1★2
* VSW(L2)		
14.00 R 24 TG	T/L	★1
17.5 R 25	T/L	★1
20.5 R 25	T/L	MS
23.5 R 25	T/L	MS
NEW 600/65 R 25	T/L	★1
VLT(L3)		
20.5 R 25	T/L	MS
23.5 R 25	T/L	MS
NEW 875/65 R 29	T/L	MS
VLTS(L4)		
20.5 R 25	T/L	MS
23.5 R 25	T/L	MS
NEW 875/65 R 29	T/L	MS
VSNT(L4)		
26.5 R 25	T/L	MS ★2
29.5 R 25	T/L	MS ★2
29.5 R 29	T/L	MS ★2
35/65 R 33	T/L	MS ★2
VSNL(L4)		
14.00 R 20	T/T	★2
35/65 R 33	T/L	★2
45/65 R 45	T/L	★1★2
VSDL(L5)		
8.25 R 15	T/T	★2
10.00 R 15	T/T	★2
14.5 R 15	T/L	★2
12.00 R 20	T/T	★2
15.5 R 25	T/L	★1
17.5 R 25	T/L	★1★2
20.5 R 25	T/L	★1★2
23.5 R 25	T/L	★1★2
26.5 R 25	T/L	★1★2
29.5 R 25	T/L	★1★2
29.5 R 29	T/L	★1★2
35/65 R 33	T/L	★1★2
45/65 R 39	T/L	★1
45/65 R 45	T/L	★1★2
50/65 R 51	T/L	★2
55.5/80 R 57	T/L	
60/80 R 57	T/L	
VSMS(L5S)		
9.00 R 20	T/T	★2
12.00 R 20	T/T	★2
12.00 R 24	T/T	★2
14.00 R 24	T/T	★2
17.5 R 25	T/L	★1★2
18.00 R 25	T/L	★1★2
26.5 R 25	T/L	★1★2
29.5 R 29	T/L	★2

* VSW is especially designed for snow surface operations.

■Mobile Crane Service (High-Speed)



Size	Type
VGT	
24 R 21	T/L
170E 445/80 R 25 (17.5R25)	T/L

Size	Type
VHB	
170E 385/95 R 24 (14.00R24)	T/T
177E 445/95 R 25 (16.00R25)	T/L
186E 505/95 R 25 (18.00R25)	T/L

Size	Type
VSB	
170E 385/95 R 24 (14.00R24)	T/T
170E 385/95 R 25 (14.00R25)	T/L

Size	Type
VHS	
170E 385/95 R 24 (14.00R24)	T/T
170E 385/95 R 25 (14.00R25)	T/L
170F 385/95 R 25 (14.00R25)	T/L
177E 445/95 R 25 (16.00R25)	T/L
174F 445/95 R 25 (16.00R25)	T/L
186E 505/95 R 25 (18.00R25)	T/L
179E 525/80 R 25 (20.5R25)	T/L

* **VSW** is especially designed for snow surface operations.

T/T: Tube Type
T/L: Tubeless Type

■Industrial Service



VHB		
14.00 R 24	T/T	★3
16.00 R 25	T/L	★2
18.00 R 25	T/L	★3



VEL		
18.00 R 25	T/L	★3



VCH		
12.00 R 20	T/T	★3
12.00 R 24	T/T	★2
14.00 R 24	T/T	★3



VCHD		
16.00 R 25	T/L	★2



VCHS		
12.00 R 20	T/T	★3
12.00 R 24	T/T	
14.00 R 24	T/T	★3
14.00 R 24 TG	T/L	★3
18.00 R 25	T/L	★3
18.00 R 33	T/L	★3



VELS		
18.00 R 33	T/L	★3



VRLS		
16.00 R 25	T/L	★2



VSDL		
23.5 R 25	T/L	★2
35/65 R 33	T/L	★2



VSMS		
18.00 R 25	T/L	★2

■Sand Service



VSJ(E7)		
16.00 R 20	T/T	28
21.00 R 25	T/L	

T/T: Tube Type
T/L: Tubeless Type
TG: For Semi-Drop Center Rim

3. Technical Data

Tire Size	Pattern	LI/SS	Star Rating	TRA Code or Application	Spec	TKPH	TMPH	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height
								OD mm inch	OW mm inch	SLR mm inch	SLW mm inch			
15"														
8.25R15	VSDL		★2	L5	D2A	-	-	880 34.6	248 9.8	405 15.9	285 11.2	48.0	-	6.50T
10.00R15	VSDL		★2	L5	D2A	-	-	905 35.6	287 11.3	416 16.4	330 13.0	48.0	-	7.50V
14.5R15 Tubeless	VSDL		★2	L5	D2A	-	-	899 35.4	359 14.1	413 16.3	412 16.2	48.0	-	11.00/1.5
20"														
9.00R20	VSMS		★2	L5S	D2A	-	-	1054 41.5	260 10.2	474 18.7	303 11.9	51.0	-	7.00T
11.00R20	L317		★3	E4	-	188	129	1107 43.6	290 11.4	512 20.2	325 12.8	25.0	335 13.2	8.00V
12.00R20	L317		★3	E4	-	208	142	1146 45.1	308 12.1	523 20.6	346 13.6	25.0	384 15.1	8.50V
	VSDL		★2	L5	D2A	-	-	1168 46.0	320 12.6	538 21.2	359 14.1	57.0	-	
	VSMS		★2	L5S	D2A	-	-	1173 46.2	312 12.3	540 21.3	351 13.8	57.0	-	
	VCH		★3	Industrial Service	IDU	-	-	See characteristics page 46						
	VCHS	176A5	★3	Industrial Service	IDU	-	-	See characteristics page 46						
14.00R20	VSNL		★2	L4	D2A	-	-	1196 47.1	360 14.2	550 21.7	414 16.3	34.0	-	10.00WI
16.00R20	VSJ		28	E7	-	-	-	See characteristics page 50						
335/80R20 Tubeless	VUT	136B 147A2		E2 L2	DE2	-	-	1036 40.8	319 12.6	463 18.2	357 14.1	19.0	-	11x20
365/80R20 Tubeless	VUT	141B 153A2		E2 L2	DE2	-	-	1087 42.8	347 13.7	483 19.0	389 15.3	21.0	-	11x20
405/70R20 Tubeless	VUT	143B 155A2		E2 L2	DE2	-	-	1092 43.0	398 15.7	485 19.1	446 17.6	20.0	-	13x20
21"														
24R21 Tubeless	VGT			Mobile Crane Service	-	520	356	See characteristics page 48						
22.5"														
12R22.5 Tubeless	L317		★3	E4	-	188	129	1109 43.7	292 11.5	517 20.4	327 12.9	25.0	343 13.5	9.00

For the TKPH(TMPH) Ratings of Radial Tires

- The figures are at 38°C (or 100°F) ambient temperature. If the ambient temperature is over 38°C (or 100°F), consult a Bridgestone Representative.
- If the round-trip distance is less than 5km (or 3 miles), the above ratings can be increased by 12%.
- If the Maximum Speed exceeds 50km/h (or 30 mph), consult a Bridgestone Representative.
- When haul length exceeds 16km (10miles) one way, consult a Bridgestone Representative.
- To obtain the TKPH(TMPH) for type 2A-LS, multiply type 2A rating by 0.8.

Pattern	Application Max.Speed km/h mph	Tire Load Limits at Various Cold Inflation Pressures																Size	
		kPa psi	400 58	425 62	450 65	475 69	500 73	525 76	550 80	575 83	600 87	625 91	650 94	675 98	700 102	725 105	750 109	775 112	800 115
VSDL	Loader 10 5	★																★2	8.25R15
		kg lbs																★2	10.00R15
		★																★2	14.5R15
VSDL	E/M 50 30	★																★3	11.00R20
		kg lbs																★3	12.00R20
		★																★3	12.00R20
VSDL VSMS	Loader 10 5	★																★2	14.00R20
		kg lbs																★2	14.00R20
		★																★2	14.00R20
VCH VCHS	IDU																	See characteristics page 47	14.00R20
																			14.00R20
																			14.00R20
VSNL	Loader 10 5	★																★2	14.00R20
		kg lbs																★2	14.00R20
		★																★2	14.00R20
VSJ	Sand																	See characteristics page 51	14.00R20
																			14.00R20
																			14.00R20
VUT	Loader 10 5	★																★3	14.00R20
		kg lbs																★3	14.00R20
		★																★3	14.00R20
VUT	E/M 50 30	★																★3	14.00R20
		kg lbs																★3	14.00R20
		★																★3	14.00R20
L317	E/M 50 30</																		

For the TKPH(TMPH) Ratings of Radial Tires

- 1) The figures are at 38°C (or 100°F) ambient temperature. If the ambient temperature is over 38°C (or 100°F), consult a Bridgestone Representative.
 - 2) If the round-trip distance is less than 5km (or 3 miles), the above ratings can be increased by 12%.
 - 3) If the Maximum Speed exceeds 50km/h (or 30 mph), consult a Bridgestone Representative.
 - 4) When haul length exceeds 16km (10miles) one way, consult a Bridgestone Representative.
 - 5) To obtain the TKPH(TMPH) for type 2A-LS, multiply type 2A rating by 0.8.

Pattern	Application Max.Speed km/h mph	Tire Load Limits at Various Cold Inflation Pressures																	Size	
24"		kPa psi	450 65	475 69	500 73	525 76	550 80	575 83	600 87	625 91	650 94	675 98	700 102	725 105	750 109	775 112	800 115	825 120		
L317 VMTP	E/M 50 30	★ kg lbs	3050 6720	3180 7010	3300 7280	3430 7560	3550 7830	3670 8090	3790 8360	3900 8600	4020 8860	4140 9130	4250 9370	★3						
VSMS	Loader 10 5	★ kg lbs			4875 11000	5150 11400	5300 11700	5450 12000	5600 12300	5800 12800	6000 13200	6150 13600	6300 13900	6500 14300	6500 14300	6700 14700	6900 15200	★2		
VCH VCHS	IDU		See characteristics page 47																	
		kPa psi	200 29	225 33	250 36	275 40	300 44	325 47	350 51	375 54										
VUT	Grader 40 25	★ kg lbs	1850 4080	2000 4400	2180 4800	2360 5200	2500 5520	2650 5840	2800 6150	3000 6600	★1									
		kPa psi	450 65	475 69	500 73	525 76	550 80	575 83	600 87	625 91	650 94	675 98	700 102	725 105	750 109	775 112	800 115			
VKT VSB VMTS VRSL	E/M 50 30	★ kg lbs	4000 8800	4125 9100	4375 9650	4500 9900	4625 10200	4750 10500	5000 11000	5150 11400	5300 11700	5450 12000	5600 12300	5710 12500	5830 12800	5940 13100	6050 13400	★3		
VSMS	Loader 10 5	★ kg lbs	5950 13120	6200 13700	6450 14220	6700 14800	6950 15300	7200 15900	7450 16400	7700 16980	7950 17500	8200 18080	8450 19600	8700 19180	8950 19690	9200 20680	9500 20900	★2		
VHB VCH VCHS	IDU		See characteristics page 47																	
		kPa psi	200 29	225 33	250 36	275 40	300 44	325 47	350 51	375 54						525 76	550 80			
VKT VUT VSW	Grader 40 25	★ kg lbs	2240 4940	2430 5360	2650 5840	2800 6150	3000 6600	3250 7150	3350 7400	3650 8050	★1	★3 VSW=Consult a Bridgestone Representative.								
VKT VSW	Loader 10 5	★ kg lbs													6700 14800	6900 15200	★1			

For the Load and Inflation Pressure Tables of Radial Tires

- 1) Maximum Speeds are as below. Earthmover Service : 50km/h (30mph), Grader Service : 40km/h (25mph), Loader & Dozer Service : 10km/h (5mph)
 - 2) Figures under the star rating denote the maximum load and inflation pressures.
 - 3) For Loader & Dozer Service, Dig & Load Operation or distances are up to 76m (250ft) one way.
 - 4) For Load & Carry operations, tire load limit will be adjusted following the table of page 53.

Tire Size	Pattern	LI/SS	Star Rating	TRA Code or Application	Spec	TKPH	T MPH	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height
								OD	OW	SLR	SLW			
								mm inch	mm inch	mm inch	mm inch			
14.00R24 TG Tubeless	VMTS		★1	G4	G2A			1400 55.1	373 14.7	TBA	TBA	38.0	-	8.00TG
	VCHS	196A5	★3	Industrial Service	IDU	-	-	See characteristics page 46						
385/95R24 (14.00R24)	VSB		Logging 170E	Mobile Crane Service		-	-	1365 53.7	390 15.4	628 24.7	433 17.0	21.0	450 17.7	10.00W
	VHB	170E		Mobile Crane Service		-	-	See characteristics page 48						
	VHS	170E	Mobile Crane Service			-	-	See characteristics page 48						
	VKT			G2	G2A	-	-	1473 58.0	418 16.5	675 26.6	470 18.5	28.5	-	10.00VA
16.00R24 TG Tubeless	VSW		★1	G2	-	-	-	1485 58.5	417 16.4	680 26.8	467 18.4	22.5	-	
	25"													
14.00R25 Tubeless	VSB		★3	E2	E2A	179	123	1365 53.7	390 15.4	628 24.7	433 17.0	21.0	450 17.7	10.00/1.5
	VMTS		★3	E4	E2A - E3A	91 - 136	62 - 93	1406 55.4	389 15.3	650 25.6	435 17.1	38.0	450 17.7	
	VRLS		★3	E4	E2A	85	58	1403 55.2	389 15.3	650 25.6	435 17.1	39.0	450 17.7	
385/95R25 (14.00R25) Tubeless	VSB		Logging 170E	Mobile Crane Service		-	-	1365 53.7	390 15.4	628 24.7	433 17.0	21.0	450 17.7	10.00/1.5
	VHS	170E		Mobile Crane Service 170F		-	-	See characteristics page 48						
	VSW	170E			Mobile Crane Service	-	-	See characteristics page 48						
15.5R25 Tubeless	VUT		★2 ★1	G2, L2	DG2	-	-	1269 50.0	383 15.1	559 22.0	436 17.2	27.0	-	12.00/1.3
	VKT		★1		L2	D2A	-	1275 50.2	392 15.4	570 22.4	445 17.5	23.5	-	
	VSDL		★1	L5	D2A	-	-	1329 52.3	392 15.4	606 23.9	443 17.4	64.0	-	
16.00R25 Tubeless	VMTS		★2	E4	E2A	123	84	1535 60.4	450 17.7	696 27.4	507 20.0	45.0	513 20.2	11.25/2.0
	VRLS		★2	E4	E2A E1A	112 146	77 100	1531 60.3	448 17.6	697 27.4	510 20.1	45.0	513 20.2	

For the TKPH(TMPH) Ratings of Radial Tires

1) The figures are at 38°C (or 100°F) ambient temperature. If the ambient temperature is over 38°C (or 100°F), consult a Bridgestone Representative.

2) If the round-trip distance is less than 5km (or 3 miles), the above ratings can be increased by 12%.

3) If the Maximum Speed exceeds 50km/h (or 30 mph), consult a Bridgestone Representative.

4) When haul length exceeds 16km (10miles) one way, consult a Bridgestone Representative.

5) To obtain the TKPH(TMPH) for type 2A-LS, multiply type 2A rating by 0.8.

3, to obtain the TIA/TI₁(TIA/TI₁) for type E/F ES, multiply type E/TI rating by 0.8.

For the Load and Inflation Pressure Tables of Radial Tires

1) Maximum Speeds are as below. Earthmover Service : 50km/h (30mph), Grader Service : 40km/h (25mph), Loader & Dozer Service : 10km/h (5mph).

2) Figures under the star rating denote the maximum load and inflation pressures.

3) For Loader & Dozer Service, Dig & Load Operation or distances are up to 76m (250ft) one way.

4) For Load & Carry operations, tire load limit will be adjusted following the table of page 53.

Tire Size	Pattern	LI/SS	Star Rating	TRA Code or Application	Spec	TKPH	TMPH	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height		
								OD mm inch	OW mm inch	SLR mm inch	SLW mm inch					
16.00R25 Tubeless	VHB		★2	Industrial Service	IDU	-	-	See characteristics page 46						16.00R25		
	VCHD		★2	Industrial Service	IDU	-	-									
	VRLS		★2	Industrial Service	IDU	-	-									
445/95R25 (16.00R25) Tubeless	VHB	177E		Mobile Crane Service	-	-	-	See characteristics page 48						445/95R25 (16.00R25)		
	VHS	177E		Mobile Crane Service	-	-	-									
	VSW	177E		Mobile Crane Service	-	-	-									
17.5R25 Tubeless	VKT		★1	E2	EG2	95	65	1339 52.7	440 17.3	600 23.6	490 19.3	27.0	-	14.00/1.5		
				G2		-	-									
				L2	D2A	-	-									
	VUT		★1	G2, L2	DG2	-	-	1340 52.8	444 17.5	586 23.1	500 19.7	28.0	-			
	VSW	153A8	★1	G2	DG2	-	-	1340 52.8	440 17.3	597 23.5	480 18.9	27.0	-			
		176A2		L2												
	VMT		★2	E3	E1A	144	99	1352 53.2	443 17.4	600 23.6	514 20.2	30.0	-			
				L3	D2A	-	-									
	New VJT	176A2	★1	L3	D2A	-	-	1352 53.2	443 17.4	TBA TBA	TBA TBA	30.0	-			
445/80R25 (17.5R25) Tubeless	VSDL		★2	L5	D2A	-	-	1400 55.1	440 17.3	639 25.2	495 19.5	68.0	-	17.5R25		
			★1													
	VSMS		★2	L5S	D2A	-	-	1374 54.1	440 17.3	623 24.5	487 19.2	68.5	-			
18.00R25 Tubeless	VGT	170E		Mobile Crane Service	-	-	-	See characteristics page 48						445/80R25 (17.5R25)		
	VKT		★2	E2	E1A	239	164	1610 63.4	510 20.1	733 28.9	571 22.5	31.0	587 23.1			
	VEL		★2	E3	E2A	181	124	1605 63.2	506 19.9	729 28.7	580 22.8	34.0	587 23.1			
			★3	Industrial Service	-	-	-	See characteristics page 46								
	VMTS		★2	E4	E2A	169	116	1649 64.9	514 20.2	754 29.7	571 22.5	51.0	587 23.1			
	VELS		★2	E4	E2A	144	99	1638 64.5	515 20.3	744 29.3	580 22.8	50.0	587 23.1			

For the TKPH(TMPH) Ratings of Radial Tires

- The figures are at 38°C (or 100°F) ambient temperature. If the ambient temperature is over 38°C (or 100°F), consult a Bridgestone Representative.
- If the round-trip distance is less than 5km (or 3 miles), the above ratings can be increased by 12%.
- If the Maximum Speed exceeds 50km/h (or 30 mph), consult a Bridgestone Representative.
- When haul length exceeds 16km (10miles) one way, consult a Bridgestone Representative.
- To obtain the TKPH(TMPH) for type 2A-LS, multiply type 2A rating by 0.8.

Pattern	Application Max.Speed km/h mph	Tire Load Limits at Various Cold Inflation Pressures																Size															
		See characteristics page 47																															
VHB VCHD VRLS	IDU	See characteristics page 47																16.00R25															
VHB VHS VSW	High-Speed	See characteristics page 49																															
VKT VMT	E/M 50 30	kPa psi 40	275 44	300 47	325 51	350 54	375 58	400 62	425 65	450 69	475 73	500 76	525 80	550 83	575 87	600 91	625 94	650 97	445/95R25 (16.00R25)														
VUT VKT VSW	Loader 10 5	★ kg lbs 7400	3350 7850	3550 8250	3750 8800	4000 9100	4125 9650	4375 10200	4625 10500	4750 11000	5000 11400	5150 12000	5450																				
VUT VKT VSW VMT VJT VSDL VSMS	Grader 40 25	★ kg lbs 4080	6000 13200	6150 13600	6500 14300	6700 14800	7100 15700	7300 16100	7500 16500	7750 17100	8000 17600	8250 18200	8500 18700																				
VUT VKT VSW	Grader 40 25	kPa psi 18	125 22	150 25	175 29	200 33	225 36	250 40	275 44	300 47	325 51	350 54	375 58	400 62	425 65	450 69	475 73	500 76	525 80	550 83	575 87	600 91	625 94	650 97	675 102	700 105	725 109	750 112	775 115	800 120	825 120	850 120	445/80R25 (17.5R25)
VGT	High-Speed	See characteristics page 49																	18.00R25														
VEL	IDU	See characteristics page 47																18.00R25															

For the Load and Inflation Pressure Tables of Radial Tires

- Maximum Speeds are as below. Earthmover Service : 50km/h (30mph), Grader Service : 40km/h (25mph), Loader & Dozer Service : 10km/h (5mph)
- Figures under the star rating denote the maximum load and inflation pressures.
- For Loader & Dozer Service, Dig & Load Operation or distances are up to 76m (250ft) one way.
- For Load & Carry operations, tire load limit will be adjusted following the table of page 53.

Tire Size	Pattern	LI/SS	Star Rating	TRA Code or Application	Spec	TKPH	TMPH	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height
								OD mm inch	OW mm inch	SLR mm inch	SLW mm inch			
18.00R25 Tubeless	VSMS	L5S	★2	L5S	D2A	-	-	1675 65.9	512 20.2	733 28.9	592 23.3	84.5	-	13.00/2.5
			★1											
			★2	Industrial Service	-	-	-							
		VHB	★3	Industrial Service	IDU	-	-							
	VCHS	214A5	★3	Industrial Service	IDU	-	-							
505/95R25 (18.00R25) Tubeless	VHB	186E		Mobile Crane Service	-	-	-							
	VHS	186E		Mobile Crane Service	-	-	-							
20.5R25 Tubeless	VKT		★1	L2	D2A	-	-	1470 57.9	530 20.9	644 25.4	597 23.5	30.5	-	17.00AL/1.7(★1only) 17.00/2.0
	VSW		MS	E2, L2	DE2	-	-	1470 57.9	530 20.9	640 25.2	603 23.7	30.5	-	
	VUT		★1	G2, L2	DG2	-	-	1473 58.0	533 21.0	643 25.3	608 23.9	30.5	-	
	VLT	177B	MS	E3	DE2	149	102	1495 58.9	533 21.0	676 26.6	586 23.1	40.0	-	
		186A2		L3										
	VMT		★1	L3	D2A	-	-	1480 58.3	530 20.9	652 25.7	597 23.5	33.0	-	
	VJT	186A2	★1	L3	D2A	-	-	1480 58.3	530 20.9	652 25.7	597 23.5	33.0	-	
	VLTS	177B	MS	E4	DE2	126	86	1478 58.2	530 20.9	667 26.3	581 22.9	49.0	-	
		186A2		L4										
	VSDL		★2	L5	D2A	-	-	1552 61.1	531 20.9	704 27.7	583 23.0	78.0	-	
			★1											
525/80R25 (20.5R25) Tubeless	VHS	179E		Mobile Crane Service	-	308	211							
21.00R25 Tubeless	VSJ			E7	-	-	-							

For the TKPH(TMPH) Ratings of Radial Tires

- 1) The figures are at 38°C (or 100°F) ambient temperature. If the ambient temperature is over 38°C (or 100°F), consult a Bridgestone Representative.
- 2) If the round-trip distance is less than 5km (or 3 miles), the above ratings can be increased by 12%.
- 3) If the Maximum Speed exceeds 50km/h (or 30 mph), consult a Bridgestone Representative.
- 4) When haul length exceeds 16km (10miles) one way, consult a Bridgestone Representative.
- 5) To obtain the TKPH(TMPH) for type 2A-LS, multiply type 2A rating by 0.8.

Pattern	Application Max.Speed km/h mph	Tire Load Limits at Various Cold Inflation Pressures																Size
		kPa psi	450 65	475 69	500 73	525 76	550 80	575 83	600 87	625 91	650 94	675 98	700 102	725 105	750 109	775 112	800 115	825 120
VSMS	Loader 10 5	★1																★2
		kg lbs																
VSMS	IDU																	
VHB	VHS	High-Speed																
VUT	Grader 40 25	★1																★2
		kg lbs																
VUT	Loader 10 5	★1																★2
		kg lbs																
VUT	VKT	High-Speed																
VUT	VKT	Grader 40 25	★1															
			kg lbs															
VUT	VKT	Grader 40 25	★1															
			kg lbs															
VUT	VKT	Grader 40 25	★1															★2
			kg lbs															
VUT	VKT	Grader 40 25	★1															★2
			kg lbs															
VUT	VKT	Grader 40 25	★1															★2
			kg lbs															
VUT	VKT	Grader 40 25	★1															★2
			kg lbs															
VUT	VKT	Grader 40 25	★1															★2
			kg lbs															
VUT	VKT	Grader 40 25	★1															★2
			kg lbs															
VUT	VKT	Grader 40 25	★1															★2
			kg lbs															
VUT	VKT	Grader 40 25	★1															★2
			kg lbs															
VUT	VKT	Grader 40 25	★1															★2
			kg lbs															
VUT	VKT	Grader 40 25	★1															★2
			kg lbs															
VUT	VKT	Grader 40 25	★1															★2
			kg lbs															
VUT	VKT	Grader 40 25	★1															★2
			kg lbs															
VUT	VKT	Grader 40 25	★1															★2
			kg lbs															

Tire Size	Pattern	LI/SS	Star Rating	TRA Code or Application	Spec	TKPH	TMPH	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height
								OD	OW	SLR	SLW			
								mm	mm	mm	mm			
23.5R25 Tubeless	VKT		★1	L2	D2A	-	-	1602 63.1	612 24.1	690 27.2	686 27.0	33.0	-	19.50/2.5
	VSW		MS	E2, L2	DE2	-	-	1596 62.8	620 24.4	692 27.2	689 27.1	31.5	-	
	VUT		★1	G2, L2	DG2	-	-	1599 63.0	620 24.4	702 27.6	688 27.1	33.5	-	
	VLT	185B	MS	E3	DE2	190	130	1623 63.9	616 24.3	734 28.9	680 26.8	42.5	-	
		195A2		L3		-	-		-	-	-		-	
	VMT		★2	E3	E2A	190	130	1600 63.0	617 24.3	702 27.6	688 27.1	35.0	-	
			★1	L3	D2A	-	-		-	-	-		-	
	VJT	195A2	★1	L3	D2A	-	-	1602 63.1	616 24.3	696 27.4	695 27.4	35.0	-	
	VLTS	185B	MS	E4	DE2	161	110	1616 63.6	612 24.1	729 28.7	675 26.6	54.0	-	
		195A2		L4		-	-		-	-	-		-	
201A2 195A2	VSDT	201A2	★2	L5	D2A	-	-	1660 65.4	621 24.4	745 29.3	680 26.8	79.0	-	See characteristics page 46
		195A2	★1			-	-	-	-	-	-	-	-	
	VSDL		★2	L5	D2A	-	-	1672 65.8	608 23.9	755 29.7	677 26.7	87.0	-	
			★1			-	-	-	-	-	-		-	
	★2	Industrial Service	IDU	-	-	See characteristics page 46								
25/65R25 Tubeless	VKT		★2	E2	E2A	162	111	1486 58.5	635 25.0	670 26.4	690 27.2	30.5	-	20.00/2.0
550/65R25 Tubeless	VTS		★1	L3	D2A	-	-	1350 53.1	547 21.5	594 23.4	605 23.8	32.5	-	(14.00/1.5) 17.00/2.0
600/65R25 Tubeless	VSW	187A2	★1	L3	D2A	-	-	1424 56.0	606 23.9	TBA TBA	TBA TBA	31.5	-	(17.00/1.7, 17.00/2.0) 19.50/2.5
650/65R25 Tubeless	VTS		★1	L3	D2A	-	-	1502 59.1	642 25.3	660 26.0	710 28.0	37.0	-	19.50/2.5
750/65R25 (30/65R25) Tubeless	VLT	190B	MS	E3	DE2	225	154	1625 64.0	765 30.1	718 28.3	831 32.7	43.0	-	(22.00/3.0) 24.00/3.0
		202A2		L3		-	-		-	-	-		-	
	VTS		★1	L3	D2A	-	-	1607 63.3	745 29.3	701 27.6	833 32.8	41.0	-	
	VLTS	190B	★2	E4	E2A	195	134	1623 63.9	765 30.1	713 28.1	832 32.8	55.0	-	
26.5R25 Tubeless	VKT		★2	L2	D2A	-	-	1732 68.2	677 26.7	756 29.8	772 30.4	39.0	-	22.00/3.0
			★1			-	-	-	-	-	-		-	
	VLT	193B	MS	E3	DE2	220	151	1755 69.1	678 25.7	787 31.0	736 29.0	45.0	-	
		202A2		L3		-	-		-	-	-		-	
	VMT		★2	L3	D2A	-	-	1735 68.3	684 26.9	754 29.7	766 30.2	38.0	-	
			★1			-	-	-	-	-	-		-	

For the TKPH(TMPH) Ratings of Radial Tires

1) The figures are at 38°C (or 100°F) ambient temperature. If the ambient temperature is over 38°C (or 100°F), consult a Bridgestone Representative.

2) If the round-trip distance is less than 5km (or 3 miles), the above ratings can be increased by 12%.

3) If the Maximum Speed exceeds 50km/h (or 30 mph), consult a Bridgestone Representative.

4) When haul length exceeds 16km (10miles) one way, consult a Bridgestone Representative.

5) To obtain the TKPH(TMPH) for type 2A-LS, multiply type 2A rating by 0.8.

For the Load and Inflation Pressure Tables of Radial Tires

1) Maximum Speeds are as below. Earthmover Service : 50km/h (30mph), Grader Service : 40km/h (25mph), Loader & Dozer Service : 10km/h (5mph)

2) Figures under the star rating denote the maximum load and inflation pressures.

3) For Loader & Dozer Service, Dig & Load Operation or distances are up to 76m (250ft) one way.

4) For Load & Carry operations, tire load limit will be adjusted following the table of page 53.

Tire Size	Pattern	LI/SS	Star Rating	TRA Code or Application	Spec	TKPH	TMPH	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height
								OD mm inch	OW mm inch	SLR mm inch	SLW mm inch			
26.5R25 Tubeless	VJT	202A2	★1	L3	D2A	-	-	1737 68.4	682 26.9	754 29.7	766 30.2	38.0	-	22.00/3.0
	VLTS	193B	★2	E4	E2A	186	127	1736 68.3	675 26.6	784 30.9	743 29.3	60.0	-	
	VSNT		MS	E4	DE2	165	113	1779 70.0	685 27.0	799 31.5	740 29.1	57.5	-	
				L4		-	-	1779 70.0	685 27.0	799 31.5	740 29.1	57.5	-	
				★2		-	-						-	
	VSDT	209A2	★2	L5	D2A	-	-	1775 69.9	697 27.4	790 31.1	778 30.6	88.0	-	
		202A2	★1			-	-	1775 69.9	684 26.9	797 31.4	761 30.0	95.5	-	
	VSDL		★2	L5	D2A	-	-						-	
			★1			-	-	1775 69.9	684 26.9	810 31.9	746 29.4	95.0	-	
	VSMS		★2	L5S	D2A	-	-						-	
			★1			-	-	1775 69.9	684 26.9	810 31.9	746 29.4	95.0	-	
29.5R25 Tubeless	VKT		★2	E2	E2A	310 376	212 258	1861 73.3	762 30.0	822 32.4	844 33.2	44.0	-	25.00/3.5
	VLT	200B	MS	E3	DE2	266	182	1885 74.2	762 30.0	840 33.1	830 32.7	48.0	-	
		208A2		L3		-	-	1885 74.2	762 30.0	808 31.8	868 34.2	42.0	-	
	VMT		★2	E3	E2A	266 354	182 242	1865 73.4	762 30.0	808 31.8	868 34.2	42.0	-	
			208A2	★1	L3	D2A	-	-	-					
	VJT	208A2	★1	L3	D2A	-	-	1865 73.4	762 30.0	TBA TBA	TBA TBA	42.0	-	
	VLTS	200B	★2	E4	E2A	225	154	1865 73.4	762 30.0	835 32.9	844 33.2	65.0	-	
	VSNT		MS	E4	DE2	220	151	1905 75.0	768 30.2	849 33.4	835 32.9	60.0	-	
				★2		-	-	1905 75.0	768 30.2	849 33.4	835 32.9	60.0	-	
	VSDT	216A2	★2	L5	D2A	-	-	1903 74.9	779 30.7	845 33.3	869 34.2	96.0	-	
		208A2	★1			-	-	1903 74.9	779 30.7	845 33.3	869 34.2	96.0	-	
	VSDL		★2	L5	D2A	-	-	1925 75.8	766 30.2	855 33.7	846 33.3	104.0	-	
			★1			-	-	1925 75.8	766 30.2	855 33.7	846 33.3	104.0	-	
29"														
775/65R29 Tubeless	VTS		★1	L3	D2A	-	-	1740 68.5	775 30.5	762 30.0	843 33.2	43.0	-	(24.00/3.5) 25.00/3.5
	VLTS		MS	E3	DE2	-	-	1865 73.4	850 33.5	804 31.7	982 38.7	47.5	-	27.00/3.5 (28.00/3.5)
875/65R29 Tubeless	VLTS	203B		E4	DE2	TBA	TBA	1880 74.0	858 33.8	TBA TBA	TBA TBA	60.0	-	
		214A2				-	-	1880 74.0	858 33.8	TBA TBA	TBA TBA	60.0	-	
	VKT		★2	E2	E2A	330 401	226 275	1958 77.1	765 30.1	870 34.3	841 33.1	44.0	-	25.00/3.5
	VSNT		MS	E4	DE2	232	159	2000 78.7	774 30.5	905 35.6	849 34.6	60.0	-	
				L4		-	-	2000 78.7	774 30.5	905 35.6	849 34.6	60.0	-	

For the TKPH(TMPH) Ratings of Radial Tires

- 1) The figures are at 38°C (or 100°F) ambient temperature. If the ambient temperature is over 38°C (or 100°F), consult a Bridgestone Representative.
- 2) If the round-trip distance is less than 5km (or 3 miles), the above ratings can be increased by 12%.
- 3) If the Maximum Speed exceeds 50km/h (or 30 mph), consult a Bridgestone Representative.
- 4) When haul length exceeds 16km (10miles) one way, consult a Bridgestone Representative.
- 5) To obtain the TKPH(TMPH) for type 2A-LS, multiply type 2A rating by 0.8.

Pattern	Application Max.Speed km/h mph	Tire Load Limits at Various Cold Inflation Pressures																Size	
		kPa psi	275 40	300 44	325 47	350 51	375 54	400 58	425 62	450 65	475 69	500 73	525 76	550 80	575 83	600 87	625 91	650 94	
VLTS	E/M 50 30	★ kg lbs	7100 15700	7500 16500	8000 17600	8500 18700	9000 19800	9500 20900	9750 21500	10300 22700	10600 23400	11200 24700	11500 25400						26.5R25
VSNT		★ kg lbs	12850 28300	13200 29100	14000 30900														
VJ ^T		★ kg lbs	12850 34200	13200 3															

For the TKPH(TMPH) Ratings of Radial Tires

- 1) The figures are at 38°C (or 100°F) ambient temperature. If the ambient temperature is over 38°C (or 100°F), consult a Bridgestone Representative.
 - 2) If the round-trip distance is less than 5km (or 3 miles), the above ratings can be increased by 12%.
 - 3) If the Maximum Speed exceeds 50km/h (or 30 mph), consult a Bridgestone Representative.
 - 4) When haul length exceeds 16km (10miles) one way, consult a Bridgestone Representative.
 - 5) To obtain the TKPH(TMPH) for type 2A-LS, multiply type 2A rating by 0.8.

Pattern	Application Max.Speed km/h mph	Tire Load Limits at Various Cold Inflation Pressures																		Size		
		kPa psi	275 40	300 44	325 47	350 51	375 54	400 58	425 62	450 65	475 69	500 73	525 76	550 80	575 83	600 87	625 91	650 94				
VSDT	Loader 10 5	★ kg lbs	★1																			
			16500 36400	17000 37500	18000 39700	18500 40800	19500 43000	20000 44100	20600 45400	21200 46700	22400 49400	23000 50700	23600 52000							29.5R29		
VLT	E/M 50 30	★ kg lbs	★2																			
33"		kPa psi	450 65	475 69	500 73	525 76	550 80	575 83	600 87	625 91	650 94	675 98	700 102									
VFT VEL VMTS VMTP VELS VRQP	E/M 50 30		7750 17100	8000 17600	8500 18700	8750 19300	9000 19800	9250 20400	9750 21500	10000 22000	10300 22700	10600 22700	10900 23400									
			17100 17100	17600 17600	18700 18700	19300 19300	19800 19800	20400 20400	21500 21500	22000 22000	22700 22700	23400 23400	24000 24000									
VCHS VELS	IDU	See characteristics page 47																				
VMTP VRLS	E/M 50 30	★ kg lbs	★2																			
			10000 22000	10300 22700	10900 24000	11200 24700	11500 25400	11800 26000	12500 27600	12850 28300	13200 29100	13600 30000	14000 30900									
			22000 22000	22700 22700	24000 24700	24700 25400	25400 26000	26000 27600	27600 28300	28300 29100	29100 30000	30000 30900	30900 30900									
VSNT	E/M 50 30	★ kg lbs	★2																			
			10600 23400	11500 25400	12150 26800	12850 28300	13600 30000	14000 30900	15000 33100	15500 34200	16000 35300	17000 37500	17500 38600									
			23400 23400	25400 25400	26800 26800	28300 28300	30000 30900	30900 33100	33100 34200	34200 35300	35300 37500	37500 38600	38600 38600									
VSNT VSNL VSDT	Loader 10 5	★ kg lbs	★1																			
			19500 43000	20600 45400	21200 46700	22400 49400	23000 50700	23600 52000	25000 55100	25750 56800	26500 58400	27250 60000	28000 61500									
			43000 43000	45400 45400	46700 46700	49400 49400	50700 50700	52000 52000	55100 55100	56800 56800	58400 58400	60000 60000	61500 61500									

For the Load and Inflation Pressure Tables of Radial Tires

- 1) Maximum Speeds are as below. Earthmover Service : 50km/h (30mph), Grader Service : 40km/h (25mph), Loader & Dozer Service : 10km/h (5mph)
 - 2) Figures under the star rating denote the maximum load and inflation pressures.
 - 3) For Loader & Dozer Service, Dig & Load Operation or distances are up to 76m (250ft) one way.
 - 4) For Load & Carry operations, tire load limit will be adjusted following the table of page 53.

Tire Size	Pattern	LI/SS	Star Rating	TRA Code or Application	Spec	TKPH	TMPH	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height
								OD mm inch	OW mm inch	SLR mm inch	SLW mm inch			
35"														
35/65R33 Tubeless	VSDL		★2	L5	D2A	-	-	2075 81.7	880 34.6	917 36.1	951 37.4	95.0	-	28.00/3.5
			★2	Industrial Service	IDU	-	-	See characteristics page 46						
21.00R35 Tubeless	VEL		★2	E3	-	-	-	1993 78.5	568 22.4	912 35.9	646 25.4	37.5	701 27.6	15.00/3.0
					E3A	410	281							
	VMTP		★2	E4	E2A 237	162	2048 201	577 80.6	922 22.7	655 36.3	61.0 25.8	701 27.6		
24.00R35 Tubeless	VEL		★2	E4	E2A 227	155	2044 192	577 80.5	935 22.7	650 36.8	59.0 25.6	701 27.6		
					E1A 281									
	VMTS		★2	E4	-	-	-	2123 83.6	660 26.0	950 37.4	741 29.2	44.0	795 31.3	17.00/3.5
33.25R35 Tubeless	VRL		★2	E3	-	E1A 448	307	2175 85.6	660 26.0	980 38.6	734 28.9	59.0	795 31.3	
					E3A 489	335								
	VMTP		★2	E4	E2A 314	215	2194 266	660 86.4	975 26.0	734 38.4	68.0 28.9	795 31.3		
37.25R35 Tubeless	VRL		★2	E4	E2A 314	215	2175 266	660 85.6	980 26.0	734 38.6	59.0 28.9	795 31.3		
					E1A 388	310								
	VRL		★2	E4	E2ALS 207	142	2194 86.4	660 26.0	995 39.2	745 29.3	71.5	795 31.3		
29.5R35 Tubeless	VRL		★2	E3	-	E1A 380	-	2120 83.5	768 30.2	932 36.7	844 33.2	39.5	-	25.00/3.5
					E1A 380	260								
	VRL		★2	E3	-	E1A 472	-	2228 87.7	846 33.3	990 39.0	970 38.2	49.0	-	27.00/3.5
39"	VLT		★2	E3	E2A 417	286	2388 94.0	954 37.6	1054 41.5	1063 41.9	59.5	-	31.00/4.0	
					E1A 569	390								
	VRL		★2	E3	-	E1A 563	-	2370 93.3	954 37.6	1045 41.1	1063 41.9	51.0	-	

For the TKPH(TMPH) Ratings of Radial Tires

- 1) The figures are at 38°C (or 100°F) ambient temperature. If the ambient temperature is over 38°C (or 100°F), consult a Bridgestone Representative.
- 2) If the round-trip distance is less than 5km (or 3 miles), the above ratings can be increased by 12%.
- 3) If the Maximum Speed exceeds 50km/h (or 30 mph), consult a Bridgestone Representative.
- 4) When haul length exceeds 16km (10miles) one way, consult a Bridgestone Representative.
- 5) To obtain the TKPH(TMPH) for type 2A-LS, multiply type 2A rating by 0.8.

Pattern	Application Max.Speed km/h mph	Tire Load Limits at Various Cold Inflation Pressures														Size			
		kPa psi	275 40	300 44	325 47	350 51	375 54	400 58	425 62	450 65	475 69	500 73	525 76	550 80	575 83	600 87	625 91	650 94	
35"	VSDL	Loader 10 5	★1														35/65R33		
			19500 43000	20600 45400	21200 46700	22400 49400	23000 50700	23600 52000	25000 55100	25750 56800	26500 58400	27250 60000	28000 61500						
			★2																
21.00R35	VEL	E/M 50 30	See characteristics page 47														21.00R35		
			kPa psi																
			450 65	475 69	500 73	525 76	550 80	575 83	600 87	625 91	650 94	675 98	700 102						
24.00R35	VMTS	E/M 50 30	★1														24.00R35		
			13200 29100	13600 30000	14000 30900	14500 32000	15500 34200	16000 35300	16500 36400	17000 37500	17500 38600	18000 39700	18500 40800						
			★2																
29.5R35	VRL	E/M 50 30	★1														29.5R35		
			10000 22000	10600 23400	11200 24700	11800 26000	12500 27600	13200 29100	13600 30000	14500 32000	15000 33100	15500 34200	16000 35300						
			★2																
33.25R35	VRL	E/M 50 30	★1														33.25R35		
			12150 26800	12850 28300	14000 30900	14500 32000	15500 34200	16000 35300	17000 37500	17500 3860									

Tire Size	Pattern	LI/SS	Star Rating	TRA Code or Application	Spec	TKPH	TMPH	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height
								OD	OW	SLR	SLW			
								mm inch	mm inch	mm inch	mm inch			
45/65R39 Tubeless	VSDL		★1	L5	D2A	-	-	2580 101.6	1074 42.3	1116 43.9	1205 47.4	116.0	-	32.00/4.5 36.00/4.5
45"														
45/65R45 Tubeless	VSNL		★2	L4	D2A	-	-	2730 107.5	1123 44.2	TBA	TBA	75.0	-	36.00/4.5
	VSDL		★2	L5	D2A	-	-	2730 107.5	1123 44.2	1188 46.8	1274 50.2	111.5	-	
			★1										-	
49"														
24.00R49 Tubeless	VFT		★2	E2	- E1A	- 562	- 385	2486 97.9	656 25.8	1147 45.2	738 29.1	38.5	795 31.3	17.00/3.5
	VMTP		★2	E4	E2A - -	361 - -	247 - -	2547 100.3	656 25.8	1175 46.3	735 28.9	68.0	795 31.3	
	VRLS		★2	E4	E2A E1A E3A	341 421 492	234 288 337	2531 99.6	656 25.8	1166 45.9	738 29.1	59.0	795 31.3	
27.00R49 Tubeless	VFT		★2	E2	E2A - E3A	557 - 804	382 - 551	2646 104.2	750 29.5	1207 47.5	835 32.9	44.0	892 35.1	19.50/4.0
	VRL		★2	E3	- E1A E3A	- 644 753	- 441 516	2645 104.1	750 29.5	1205 47.4	835 32.9	42.5	892 35.1	
	VMTS		★2	E4	E2A E1A E3A	486 600 702	333 411 481	2690 105.9	750 29.5	1230 48.4	835 32.9	64.0	892 35.1	
	VMTP		★2	E4	E2A E1A E3A	440 544 636	301 373 436	2708 106.6	750 29.5	1239 48.8	835 32.9	73.0	892 35.1	
	VRLS		★2	E4	E2A E1A E3A	415 513 600	284 351 411	2687 105.8	750 29.5	1228 48.3	835 32.9	66.5	892 35.1	
	VREP		★2	E4	E2A E1A E3A	457 564 660	313 386 452	2692 106.0	750 29.5	1231 48.4	835 32.9	66.5	892 35.1	
	VRDP		★2	E4	E2A E1A E3A	415 513 600	284 351 411	2711 106.7	750 29.5	1240 48.8	835 32.9	76.0	892 35.1	
31/90R49 Tubeless	VELSF		★2	E4	E2A E1A	427 528	292 362	2694 106.1	771 30.4	1228 48.3	862 33.9	66.5	956 37.6	19.50/4.0
51"														
30.00R51 Tubeless	VMT		★2	E3	- - E3A	- - 1065	- - 729	2850 112.2	854 33.6	1294 50.9	950 37.4	45.0	993 39.1	22.00/4.5
	VRLS		★2	E4	E2A E1A E3A	496 603 717	340 413 491	2911 114.6	854 33.6	1311 51.6	963 37.9	74.5	993 39.1	

For the TKPH(TMPH) Ratings of Radial Tires

- For the TKPH(TMPH) Ratings of radial tires

 - 1) The figures are at 38°C (or 100°F) ambient temperature. If the ambient temperature is over 38°C (or 100°F), consult a Bridgestone Representative.
 - 2) If the round-trip distance is less than 5km (or 3 miles), the above ratings can be increased by 12%.
 - 3) If the Maximum Speed exceeds 50km/h (or 30 mph), consult a Bridgestone Representative.
 - 4) When haul length exceeds 16km (10miles) one way, consult a Bridgestone Representative.
 - 5) To obtain the TKPH(TMPH) for type 2A-LS, multiply type 2A rating by 0.8.

For the Load and Inflation Pressure Tables of Radial Tires

- 1) Maximum Speeds are as below. Earthmover Service : 50km/h (30mph), Grader Service : 40km/h (25mph), Loader & Dozer Service : 10km/h (5mph)
 - 2) Figures under the star rating denote the maximum load and inflation pressures.
 - 3) For Loader & Dozer Service, Dig & Load Operation or distances are up to 76m (250ft) one way.
 - 4) For Load & Carry operations, tire load limit will be adjusted following the table of page 53.

Tire Size	Pattern	LI/SS	Star Rating	TRA Code or Application	Spec	TKPH	T MPH	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height
								OD	OW	SLR	SLW			
								mm	inch	mm	inch			
33.00R51 Tubeless	VMT		★2	E3	-	-	-	2988	932	1338	1052	48.0	1074	24.00/5.0
	VMTP		★2	E4	E2A E1A E3A	591 700	405 479	3063	932	1376	1052	89.5	1074	42.3
	VRLS		★2	E4	E2A E1A E3A	558 679 807	382 465 553	3036	932	1371	1051	78.5	1074	42.3
	VRDP		★2	E4	E2A E1A E3A	558 679 807	382 465 553	3061	932	1376	1051	87.0	1074	42.3
	New VRPS		★2	E4	E2A	558	382	3061	932	TBA	TBA	87.0	1074	42.3
36.00R51 Tubeless		VHS	★2	E2	- - E3A	- - 1485	- - 1017	3108	1015	1390	1163	44.0	1184	26.00/5.0
	VRLS		★2	E4	E2A E1A E3A	642 781 927	440 535 635	3204	1015	1431	1153	86.5	1184	46.6
50/65R51 Tubeless	VSDL		★2	L5	D2A	-	-	3070	1278	1347	1361	128.0	-	40.00/4.5
57"														
37.00R57 Tubeless	VZTS		★2	E4	E2A E1A E3A	694 845 1003	475 579 687	3422	1044	1541	1190	87.5	1217	27.00/6.0
	VELSL		★2	E4	- - E3A	- - 1148	- - 786	3388	1044	1524	1190	77.0	1217	47.9
	VRLS		★2	E4	E2A E1A E3A	694 845 1003	475 579 687	3410	1044	1535	1190	87.5	1217	47.9
42/90R57 Tubeless	VRDP		★2	E4	E2A E1A E3A	715 870 1033	490 596 708	3456	1060	1539	1210	97.0	1323	27.00/6.0
40.00R57 Tubeless	VMT		★2	E3	E2A E1A E3A	1204 1463 1739	825 1002 1191	3512	1108	1560	1264	64.0	1311	29.00/6.0
	VZTS		★2	E4	E2A E1A E3A	773 940 1117	529 644 765	3585	1140	1606	1289	91.5	1311	51.6
	VELSL		★2	E4	- - E3A	- - 1330	- - 911	3542	1108	1575	1264	80.0	1311	51.6
	VELS		★2	E4	E2A E1A E3A	773 940 1117	529 644 765	3562	1127	1582	1291	91.5	1311	51.6
	VRDP		★2	E4	E2A E1A E3A	773 940 1117	529 644 765	3575	1108	1591	1264	97.0	1311	51.6
	VRPS		★2	E4	E2A E1A E3A	773 940 1117	529 644 765	3575	1108	1591	1264	97.0	1311	51.6

For the TKPH(TMPH) Ratings of Radial Tires

- 1) The figures are at 38°C (or 100°F) ambient temperature. If the ambient temperature is over 38°C (or 100°F), consult a Bridgestone Representative.
 - 2) If the round-trip distance is less than 5km (or 3 miles), the above ratings can be increased by 12%.
 - 3) If the Maximum Speed exceeds 50km/h (or 30 mph), consult a Bridgestone Representative.
 - 4) When haul length exceeds 16km (10miles) one way, consult a Bridgestone Representative.
 - 5) To obtain the TKPH(TMPH) for type 2A-LS, multiply type 2A rating by 0.8.

For the Load and Inflation Pressure Tables of Radial Tires

- 1) Maximum Speeds are as below. Earthmover Service : 50km/h (30mph), Grader Service : 40km/h (25mph), Loader & Dozer Service : 10km/h (5mph)
 - 2) Figures under the star rating denote the maximum load and inflation pressures.
 - 3) For Loader & Dozer Service, Dig & Load Operation or distances are up to 76m (250ft) one way.
 - 4) For Load & Carry operations, tire load limit will be adjusted following the table of page 53.

Tire Size	Pattern	LI/SS	Star Rating	TRA Code or Application	Spec	TKPH	TMPH	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height
								OD mm inch	OW mm inch	SLR mm inch	SLW mm inch			
								inch	inch	inch	inch			
46/90R57 Tubeless	VZTP		★2	E4	E2A E1A E3A	766 927 1103	525 635 755	3585 141.1	1145 45.1	1591 62.6	1299 51.1	97.0	1412 55.6	29.00/6.0 (32.00/6.0)
	VELS		★2	E4	E2A E1A E3A	796 968 1150	545 663 788	3557 140.0	1145 45.1	1577 62.1	1299 51.1	88.0	1412 55.6	
	VRDP		★2	E4	E2A E1A E3A	796 968 1150	545 663 788	3575 140.7	1145 45.1	1586 62.4	1299 51.1	97.0	1412 55.6	
	VRPS		★2	E4	E2A E1A E3A	796 968 1150	545 663 788	3575 140.7	1145 45.1	1586 62.4	1299 51.1	97.0	1412 55.6	
55.5/80R57 Tubeless	VSDL		L5	D2A	-	-	3740 147.2	1410 55.5	1634 64.3	1616 63.6	125.5	- -	44.00/6.0	
50/90R57 Tubeless	VELS		★2	E4	- - E3A	- - 1278	- - 875	3825 150.6	1283 50.5	1694 66.7	1471 57.9	91.5	1562 61.5	32.00/6.5 34.00/6.5
	VRPS		★2	E4	E2A E1A E3A	884 1092 1278	605 748 875	3840 151.2	1283 50.5	1702 67.0	1471 57.9	107.0	1562 61.5	
60/80R57 Tubeless	VSDL		L5	D2A	-	-	3952 155.6	1491 58.7	1738 68.4	1755 69.1	118	- -	47.00/6.0	
63"														
53/80R63 Tubeless	VRF		★2	E3	- - E3A	- - 1628	- - 1115	3741 147.3	1311 51.6	TBA TBA	TBA TBA	64.0	1626 64.0	36.00/5.0
	VRDP		★2	E4	E2A E1A E3A	974 1150 1408	667 788 964	3828 150.7	1304 51.3	1657 65.2	1511 59.5	110.0	1626 64.0	
	VRPS		★2	E4	E2A E1A E3A	974 1150 1408	667 788 964	3828 150.7	1304 51.3	1657 65.2	1511 59.5	110.0	1626 64.0	
59/80R63 Tubeless	VRF		★2	E3	- - E1A E3A	- - 1784 2050	- - 1222 1404	4022 158.3	1459 57.4	1710 67.3	1712 67.4	71.0	1780 70.0	44.00/5.0
	VRPS		★2	E4	E2A E1A E3A	1686 1937	1155 1327	-	-	-	-	-	-	
	VRPS		★2	E4	E2A E1A E3A	1228 1515 1773	841 1038 1214	4017 158.1	1467 57.8	1710 67.3	1712 67.4	116.0	1780 70.0	44.00/5.0
	VRPS		★2	E4	E2A E1A E3A	1160 1431 1675	794 980 1147	-	-	-	-	-	-	41.00/5.0

For the TKPH(TMPH) Ratings of Radial Tires

1) The figures are at 38°C (or 100°F) ambient temperature. If the ambient temperature is over 38°C (or 100°F), consult a Bridgestone Representative.

2) If the round-trip distance is less than 5km (or 3 miles), the above ratings can be increased by 12%.

3) If the Maximum Speed exceeds 50km/h (or 30 mph), consult a Bridgestone Representative.

4) When haul length exceeds 16km (10miles) one way, consult a Bridgestone Representative.

5) To obtain the TKPH(TMPH) for type 2A-LS, multiply type 2A rating by 0.8.

Pattern	Application Max.Speed km/h mph	Tire Load Limits at Various Cold Inflation Pressures														Size	
		kPa psi	400 58	425 62	450 65	475 69	500 73	525 76	550 80	575 83	600 87	625 91	650 94	675 98	700 102		
VZTP VELS VRDP VRPS	E/M 50 30	★ kg lbs														★2	
VSDL	Loader 10 5	★ kg lbs														* About some exceptions, consult a bridgestone representative.	
VELS VRPS	E/M 50 30	★ kg lbs														★2	
VSDL	Loader 10 5	★ kg lbs															
63"																	
VRF VRDP VRPS	E/M 50 30	★ kg lbs														★2	
VRF VRPS		★ kg lbs														* 44.00/5.0 Rim	
																* 41.00/5.0 Rim	
53/80R63																	
59/80R63																	

For the Load and Inflation Pressure Tables of Radial Tires

1) Maximum Speeds are as below. Earthmover Service : 50km/h (30mph), Grader Service : 40km/h (25mph), Loader & Dozer Service : 10km/h (5mph)

2) Figures under the star rating denote the maximum load and inflation pressures.

3) For Loader & Dozer Service, Dig & Load Operation or distances are up to 76m (250ft) one way.

Tire Size	Pattern	LI/SS	Star Rating	TRA Code or Application	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height								
					OD mm inch	OW mm inch	SLR mm inch	SLW mm inch											
Industrial Service																			
20"																			
12.00R20	VCH		★3	Industrial Service	1140 44.9	315 12.4	512 20.2	360 14.2	29.5	380 15.0	8.50V								
	VCHS	176A5	★3	Industrial Service	1139 44.8	297 11.7	507 20.0	355 14.0	41.5	375 14.8									
24"																			
12.00R24	VCH		★2	Industrial Service	1254 49.4	323 12.7	558 22.0	376 14.8	29.5	-	8.50V								
	VCHS		New	Industrial Service	1263 49.7	310 12.2	580 22.8	351 13.8	42.0	-									
14.00R24	VHB		★3	Industrial Service	1357 53.4	383 15.1	630 24.8	410 16.1	23.5	450 17.7	10.00W								
	VCH		★3	Industrial Service	1393 54.8	390 15.4	610 24.0	460 18.1	32.0	480 18.9									
	VCHS	196A5	★3	Industrial Service	1412 55.6	383 15.1	626 24.6	445 17.5	63.0	480 18.9									
14.00R24 TG Tubeless	VCHS	196A5	★3	Industrial Service							10.00VA								
25"																			
16.00R25 Tubeless	VHB		★2	Industrial Service	1484 58.4	440 17.3	690 27.2	475 18.7	22.5	513 20.2	11.25/2.0								
	VCHD		★2	Industrial Service	1500 59.1	435 17.1	655 25.8	503 19.8	54.0	523 20.6									
	VRLS		★2	Industrial Service	1531 60.3	448 17.6	713 28.1	488 17.6	45.0	540 21.3									
18.00R25 Tubeless	VHB		★3	Industrial Service	1610 63.4	515 20.3	733 28.9	565 22.2	26.0	587 23.1	13.00/2.5								
	VEL		★3	Industrial Service	1609 63.3	507 20.0	727 28.6	571 22.5	34.0	612 24.1									
	VCHS	214A5	★3	Industrial Service	1650 65.0	504 19.8	707 27.8	596 23.5	64.0	600 23.6									
	VSMS		★2	Industrial Service	1681 66.2	512 20.2	730 28.7	592 23.3	84.5	612 24.1									
23.5R25 Tubeless	VSDL		★2	Industrial Service	1672 65.8	608 23.9	755 29.7	687 27.0	87.0	722 28.4	19.50/2.5								
33"																			
18.00R33 Tubeless	VCHS	219A5	★3	Industrial Service	1856 73.1	508 20.0	803 31.6	585 23.0	68.5 23.6	600 23.6	13.00/2.5								
	VELS		★3	Industrial Service	1860 73.2	512 20.2	800 31.5	604 23.8	49.0 25.0	634 25.0									
35/65R33 Tubeless	VSDL		★2	Industrial Service	2075 81.7	880 34.6	900 35.4	986 38.8	95.0	-	28.00/3.5								

Off-the-Road Tires Used for Industrial Vehicle Applications

1) Industrial Vehicles comprise vehicles such as counter-balanced lift trucks, container handlers, straddle carriers, aircraft tow tractors, mobile crushers, log stackers etc., used on hard improved surfaces, smooth floors and runways.
 2) Use Specifications of **Industrial Service** only.

Pattern	Application	Star Rating	Inflation Pressure	Tire Load Limits at Various Speeds												Size				
				kPa psi	km/h mph	0 Static	Creep	5 3	10 5	15 9	20 12	25 15	30 19	35 22						
Industrial Service																				
20"																				
VCH	IDU	★3	Load Wheel	1000 kg 145 lbs	9230 kg 20350 lbs	8875 kg 19570 lbs	8875 kg 19570 lbs	8875 kg 19570 lbs	12.00R20											
	VCHS		Steering Wheel	1000 kg 145 lbs	7100 kg 15620 lbs	6570 kg 14480 lbs	6570 kg 14480 lbs	6570 kg 14480 lbs												
24"																				
VCH	IDU	★2	Load Wheel	960 kg 139 lbs	12420 kg 27385 lbs	11040 kg 24345 lbs	10005 kg 22060 lbs	9315 kg 20540 lbs	8970 kg 19780 lbs	8765 kg 19320 lbs	8625 kg 19020 lbs	8625 kg 19020 lbs	8625 kg 19020 lbs	8625 kg 19020 lbs	8625 kg 19020 lbs	8625 kg 19020 lbs	12.00R24			
	VCHS		Steering Wheel	960 kg 139 lbs	21910 kg 41975 lbs	19475 kg 37650 lbs	17650 kg 32040 lbs	16430 kg 29765 lbs	15825 kg 28665 lbs	15455 kg 27560 lbs	15215 kg 27340 lbs	15215 kg 27340 lbs	15215 kg 27340 lbs	15215 kg 27340 lbs	15215 kg 27340 lbs	15215 kg 27340 lbs				
VCHS	IDU		Load Wheel	1000 kg 145 lbs	9750 kg 21500 lbs	9375 kg 20670 lbs	9375 kg 20670 lbs	9375 kg 20670 lbs	*Compliant with the ETRTO standard of industrial tires											
	VCHS		Steering Wheel	1000 kg 145 lbs	7500 kg 16500 lbs	6935 kg 15200 lbs	6935 kg 15200 lbs	6935 kg 15200 lbs	6935 kg 15200 lbs	6935 kg 15200 lbs										
VHB	IDU	★3	Load Wheel	1000 kg 145 lbs	18000 kg 39690 lbs	16000 kg 35280 lbs	14500 kg 31970 lbs	13500 kg 29765 lbs	13000 kg 28665 lbs	12700 kg 27560 lbs	12500 kg 27340 lbs	12400 kg 27340 lbs	12400 kg 27340 lbs	12400 kg 27340 lbs	12400 kg 27340 lbs	12400 kg 27340 lbs	14.00R24			
	VCH																			

Tire Size	Pattern	LI/SS	TRA Code or Application	Approximate Inflated Dimensions				OTD mm inch	Minimum Dual Spacing mm inch	Recommended Rim/Flange Height inch							
				OD mm inch	OW mm inch	SLR mm inch	SLW mm inch										
Mobile Crane Service (High-Speed)																	
21"																	
24R21 Tubeless	VGT		Mobile Crane Service	1380 54.3	601 23.7	623 24.5	647 25.5	24.5	-	18.00/1.5							
24"																	
385/95R24 (14.00R24)	VSB	170E	Mobile Crane Service	1365 53.7	390 15.4	628 24.7	433 17.0	21.0	450 17.7	10.00W							
	VHB	170E	Mobile Crane Service	1357 53.4	383 15.1	630 24.8	410 16.1	23.5	450 17.7								
	VHS	170E	Mobile Crane Service	1356 53.4	384 15.1	626 24.6	422 16.6	23.0	450 17.7								
25"																	
385/95R25 (14.00R25) Tubeless	VSB	170E	Mobile Crane Service	1365 53.7	390 15.4	628 24.7	433 17.0	21.0	450 17.7	10.00/1.5							
	VHS	170E 170F	Mobile Crane Service	1356 53.4	384 15.1	626 24.6	422 16.6	23.0	450 17.7								
	VSW	170E	Mobile Crane Service	1355 53.3	394 15.5	631 24.8	427 16.8	23.5	450 17.7								
445/95R25 (16.00R25) Tubeless	VHB	177E	Mobile Crane Service	1484 58.4	440 17.3	690 27.2	475 18.7	22.5	513 20.2	11.25/2.0							
	VHS	177E 174F	Mobile Crane Service	1484 58.4	435 17.1	684 26.9	480 18.9	25.5	513 20.2								
	VSW	177E	Mobile Crane Service	1484 58.4	435 17.1	695 27.4	476 18.7	23.0	513 20.2								
445/80R25 (17.5R25) Tubeless	VGT	170E	Mobile Crane Service	1339 52.7	440 17.3	610 24.0	485 19.1	24.0	-	14.00/1.5							
505/95R25 (18.00R25) Tubeless	VHB	186E	Mobile Crane Service	1590 62.6	510 20.1	778 30.6	565 22.2	26.0	587 23.1	13.00/2.5							
	VHS	186E	Mobile Crane Service	1593 62.7	505 19.9	727 28.6	565 22.2	26.0	587 23.1								
525/80R25 (20.5R25) Tubeless	VHS	179E	Mobile Crane Service	1480 58.3	533 21.0	677 26.7	578 22.8	31.0	-	17.00/2.0							

Pattern	Application	Inflation Pressure	Tire Load Limits at Various Speeds																Size
			Mobile Crane Service (High-Speed) *Consult a Rim Manufacturer when inflation pressure exceeds 800kPa (116psi).																
21"			kPa psi	km/h mph	88 55														24R21
VGT	High-Speed	580 85	kg lbs	7120 15700															385/95R24 (14.00R24)
24"			kPa psi	km/h mph	0 Static	Creep	5 3	10 5	15 9	20 12	30 19	40 25	50 31	60 37	70 43	80 50	90 56	100 62	385/95R25 (14.00R25)
VSB	High-Speed	900 131	kg lbs	17700 39000	14400 31700	12700 28100	11000 24300	9850 21700	8900 19600	7800 17200	7450 16400	7100 15600	6700 14800	6000 13200	4925 10800	4200 9250	3600 7950		
VHS																			
VSW																			
VHS (170E)	High-Speed	900 131	kg lbs	17700 39000	14400 31700	12700 28100	11000 24300	9850 21700	8900 19600	7800 17200	7450 16400	7100 15600	6700 14800	6000 13200	4925 10800	4200 9250	3600 7950		
VHS (174F)	High-Speed	900 131	kg lbs	15000 33070	12600 27780	10800 23810	9900 21830	9000 19850	7500 16540	6900 15220	6720 14820	6600 14560	6300 13890	6000 13230	5640 12440	5100 11250			
VHB (177E)	High-Speed	900 131	kg lbs	21500 47500	17500 38500	15500 34200	13400 29600	12000 26400	10800 23800	9500 20900	9050 20000	8600 19000	8100 18000	7300 16100	6000 13200	5100 11300	4375 9650		
VHS (174F)	High-Speed	900 131	kg lbs	16750 36930	14070 31020	12060 26590	11055 24380	10050 22160	8375 18470	7705 16990	7505 16550	7370 16250	7035 15510	6700 14780	6300 13890	5695 12560			
VGT	High-Speed	700 102	kg lbs	17700 39000	14400 31700	12700 28100	11000 24300	9850 21700	8900 19600	7800 17200	7450 16400	7100 15600	6700 14800	6000 13200	4925 10800	4200 9250	3600 7950		
VHB	High-Speed	900 131	kg lbs	28000 61800	22700 50200	20200 44500	17500 38500	15600 34300	14100 31000	12300 27200	11800 26000	11200 24700	10600 23400	9500 20900	7800 17200	6650 14700	5700 12600		
VHS	High-Speed	700 102	kg lbs	22900 50400	18600 40900	16500 36300	14300 31400	12700 28000	11500 25300	10100 22200	9600 21200	9150 20200	8700 19100	7750 17100	6350 14000	5400 12000	4650 10200		

Tire Size	Pattern	LI/SS	Star Rating	TRA Code or Application	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height								
					OD mm inch	OW mm inch	SLR mm inch	SLW mm inch											
Sand Service																			
20"																			
16.00R20	VSJ		28	E7	1315 51.8	414 16.3	590 23.2	475 18.7	18.5	520 20.5	10.00W								
25"																			
21.00R25 Tubeless	VSJ			E7	1728 68.0	584 23.0	784 30.9	649 25.6	22.5	685 27.0	15.00/3.0								

Pattern	Application	Ply Rating	Max. Speed	Tire Cold Inflation Pressures at Various Load Limits													Size																		
				Tire Cold Inflation Pressures at Various Load Limits																															
Sand Service																																			
20"																																			
									kg lbs	4250 9370	4500 9920	4750 10470	5000 11020	5250 11570	5500 12130	6000 13230	7000 15430	8000 17640	8500 18740	9000 19840	9500 20940														
VSJ	Sand	28PR	65km/h 40mph	kPa psi	490 71	540 78	580 84	630 91	680 98	720 105																									
			50km/h 30mph	kPa psi	390 57	420 61	450 65	490 71																											
			16km/h 10mph	kPa psi	280 41	300 44	320 47	350 51																											
25"																																			
VSJ	Sand	-	65km/h 40mph	kPa psi						330 48	410 60	490 71	540 78	590 85	630 92																				
			50km/h 30mph	kPa psi						260 38	320 47	390 57	420 61																						
			16km/h 10mph	kPa psi						200 28	230 34	280 41	300 44																						

4. Remarks

4.1 Excess Load

Due to the specialized nature of Off-The-Road vehicle usage, loads in excess of those in the appropriate above-listed load tables are often encountered.

These excess loads result from items such as actual vehicle weight exceeding the design weight, varying density of materials, field modifications to the equipment, load transfer, etc.

Only under these conditions, the actual tire load in service may exceed the above load ratings for the tire(*) by an amount not greater than shown in the following table:

	E2, E3, E4*	L**
Maximum Excess Load	7%	7%
Maximum Excess Pressure	14%	14%
Maximum Pressure	800kPa <i>116psi</i>	825kPa <i>120psi</i>

(except for underground vehicles)

When excess loads are encountered, cold inflation pressures must be increased to compensate for higher loads.

For each 1% increase in load, the inflation pressure must be increased by 2%.

*except following sizes on the list

11.00R20	335/80R20	405/70R20	12.00R24
12.00R20	365/80R20	12R22.5	

*About 63" tires, consult a Bridgestone representative.

**except 55.5/80R57 and 60/80R57

The maximum excess loads will result in reduced tire performance.

4.3 Load-and-Carry Operations for Front End Loader Service

Service conditions of a loader is defined as "picking up material and relocating a short distance away, a maximum of 76m (250 feet), one way, with a maximum speed of 10km/h (5mph)". However, a loader can pick up a load and transport such load to another location and return unloaded for a longer distance. This type of service is called **Load-and-Carry** operations. Transportation usually occurs at low speeds, up to 25km/h (15mph), and distances are limited.

The tires when used in Load-and-Carry operations may encounter heat problems especially on the front axle tires. To avoid such problems, Bridgestone recommends the following operating conditions.

For tires over 33" inch rim diameter tires, careful study is required to maximize tire life while considering Ton-Kilometer-Per-Hour (Ton-Mile-Per-Hour) limits. Please consult Bridgestone representative for more information.

If you need to use the tire beyond this recommendation, please consult Bridgestone representative.



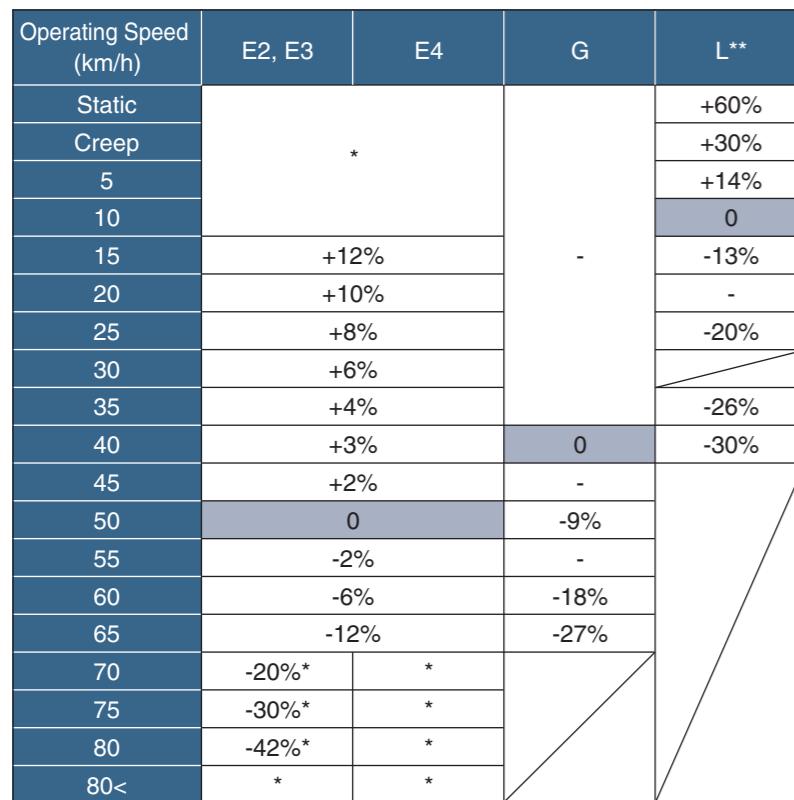
For Radial Tires

Tread Class	Inflation Pressure						Load Capacity* 10km/h (5mph)	Maximum Cycle Distance (m)	Allowable Average Work-shift Speed (km/h)			
	Rim Diameter											
	29" and below		33" and above									
	Conventional size (95 series)	Wide base size (85, 65 series)	Wide base size (65 series)	*	**	*	**					
L2, L3								1800	16			
L4	550kpa (80psi)	825kpa (120psi)	500kpa (73psi)	650kpa (94psi)	600kpa (87psi)	750kpa (109psi)	100% of STD.load		14			
L5								1500 (VSDT)	10			
L5S								1200 (VSDL)	6			
								1200	5			

* STD.load: Maximum permissible load at standard inflation pressure for respective tire size and star rating.

Please refer to the load - inflation pressure table for loader and dozer service "10km/h (5mph) service".

4.2 The Variation in Load Carrying Capacity with Operating Speed



This table doesn't secure to prevent the risk derived from heat buildup.

BIAS TIRE

1. Tread Designs

■Earthmover Service

E3



W-LUG
(WL)



R-LUG
(RL)



V-LUG2
(VL2)

E4



R-LUG S
(RLS)



E-LUG S2
(ELS2)

L4



R-LUG S
(RLS)



N-LUG
(NL)



D-LUG
(DL)



SMOOTH TREAD-MS
(STMS)

■Sand Service

E7



SAND CLIPPER-2
(SCP2)

G1



RIB GRADER
(RG)

G2



G-LUG
(GL)



FAST GRIP
(FG)

■Compactor Service

C1



ROAD ROLLER
(RR)

C2



ALLIGATOR2
(AL2)



TIMBER GRIP S
(TGS)

■Loader & Dozer Service

G3



R-LUG
(RL)



G-LUG
(GL)



FAST GRIP
(FG)

L2



R-LUG
(RL)



V-LUG2
(VL2)

■Industrial Service



R-LUG
(RL)



R-LUG S
(RLS)



E-LUG S2
(ELS2)



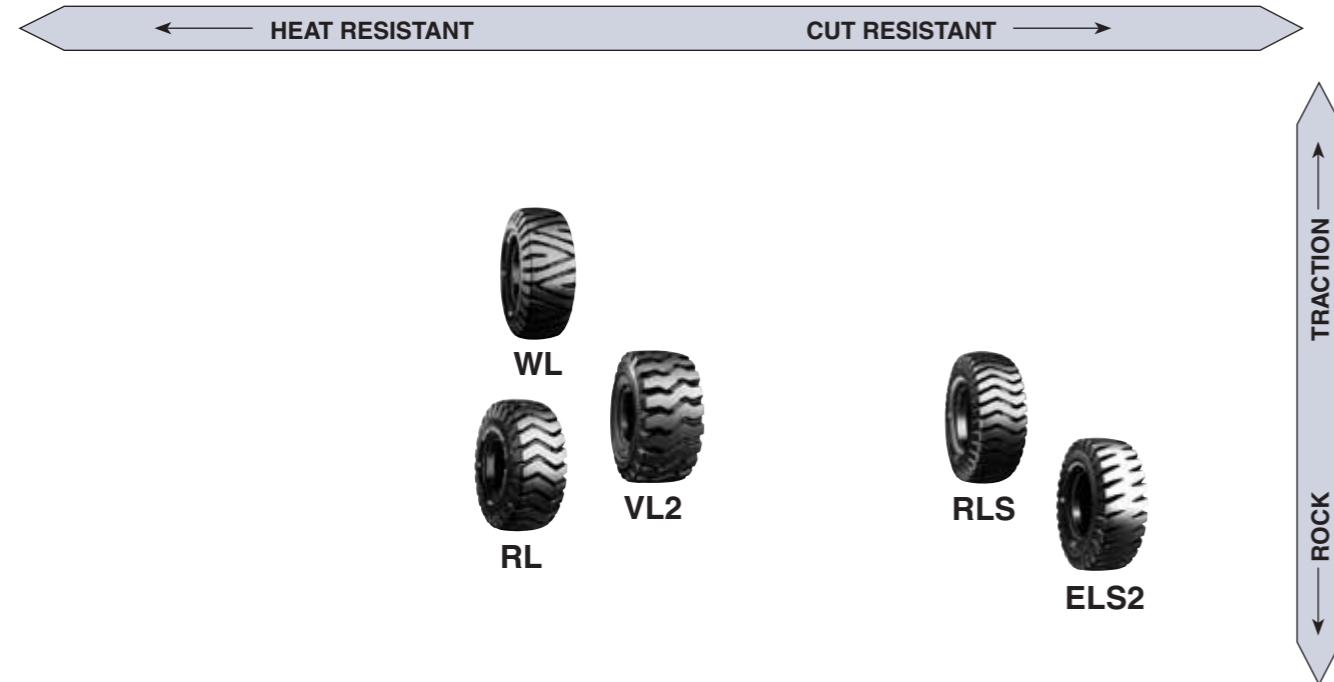
SMOOTH TREAD-MS
(STMS)



YARD SERVICE-2
(YS2)

2. Application

■Earthmover Service



Size	Type	Ply Rating
WL(E3)		
9.00-20	T/T	14

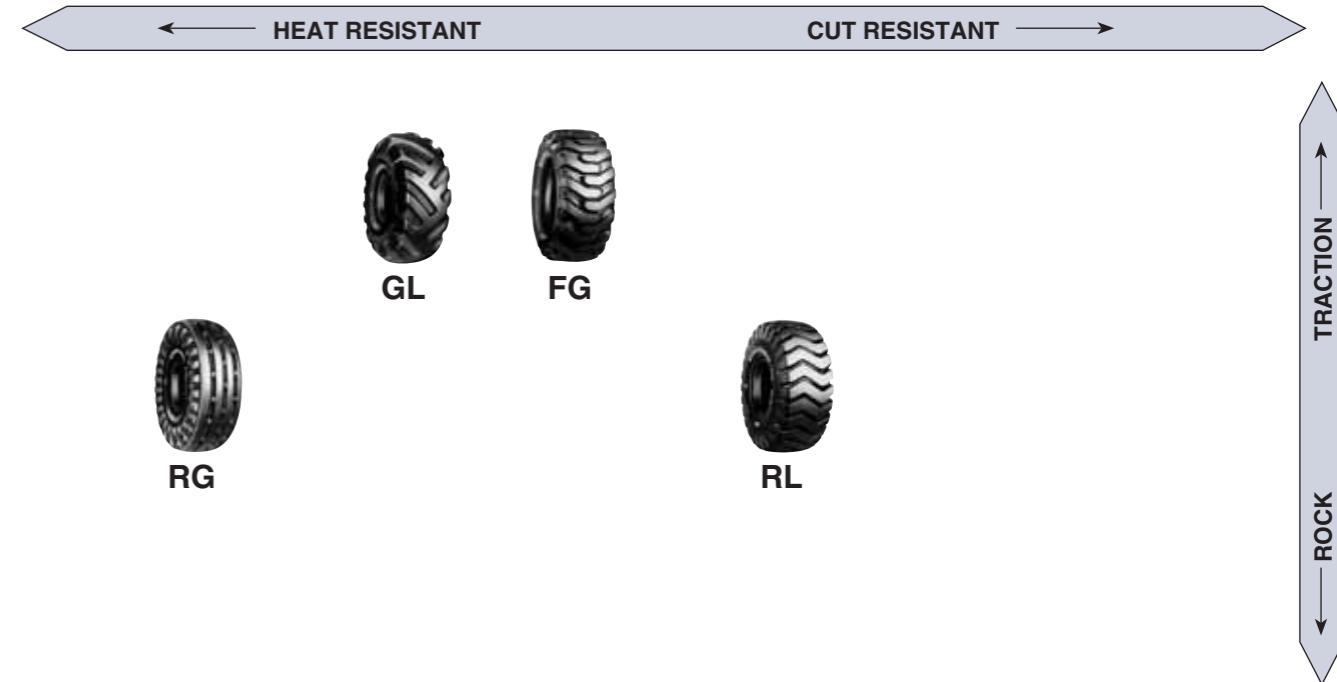
Size	Type	Ply Rating
RLS(E4)		
18.00-33	T/L	32

Size	Type	Ply Rating
RL(E3)		
10.00-20	T/T	14
11.00-20	T/T	14
12.00-20	T/T	18
12.00-24	T/T	20
14.00-24	T/T	24 28
16.00-25	T/L	28
18.00-25	T/L	32
37.25-35	T/L	36

Size	Type	Ply Rating
ELS2(E4)		
18.00-33	T/L	32

Size	Type	Ply Rating
VL2(E3)		
20.5-25	T/L	16 20 24
23.5-25	T/L	16 20 24
26.5-25	T/L	20 24 26
29.5-25	T/L	22 28

■Grader Service



Size	Type	Ply Rating
RG(G1)		
9.00-20	T/T	10

Size	Type	Ply Rating
GL(G2)		
9.00-20	T/T	14

Size	Type	Ply Rating
FG(G2)		
13.00-24 TG	T/L	12
	T/T	10
14.00-24 TG	T/L	14
	T/T	12 16
16.00-24 TG	T/T	16
17.5-25	T/L	12 16
20.5-25	T/L	12
	T/T	12

Size	Type	Ply Rating
RL(G3)		
16.00-24 TG	T/T	16

T/T: Tube Type
T/L: Tubeless Type

T/T: Tube Type
T/L: Tubeless Type
TG: For Semi-Drop Center Rim

■ Loader & Dozer Service

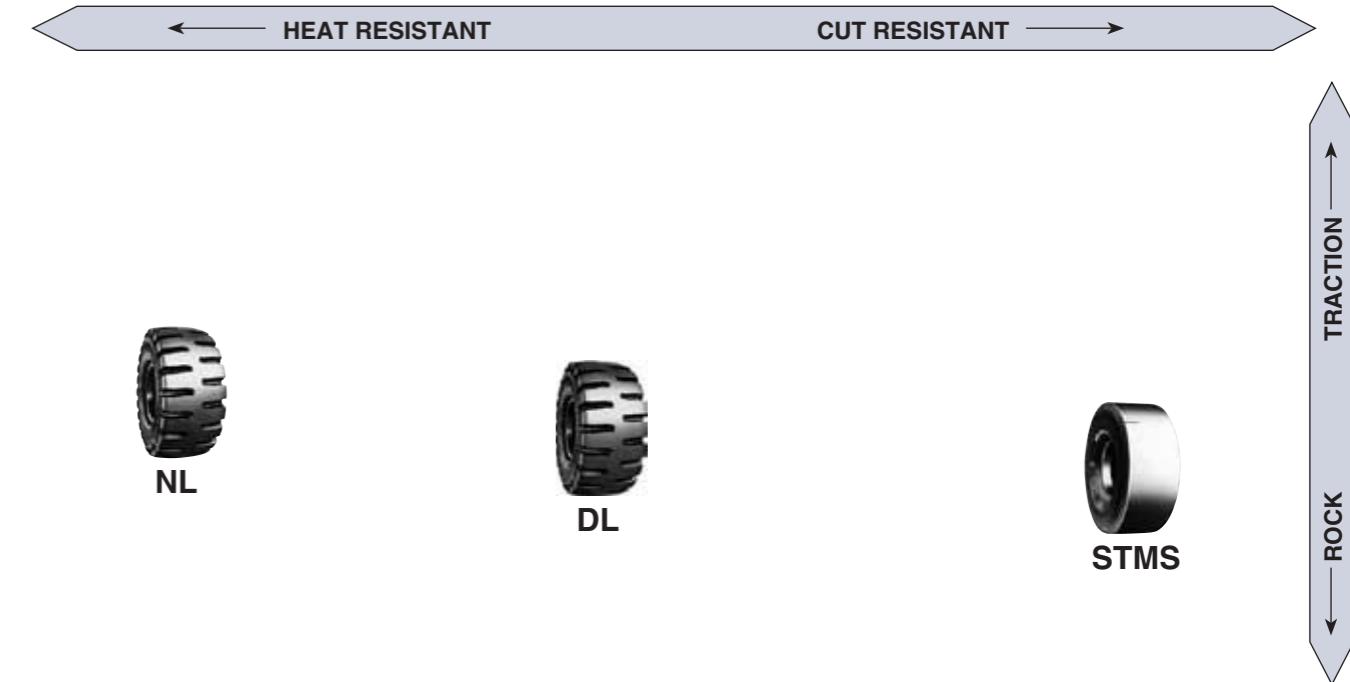


Size	Type	Ply Rating
GL(L2)		
9.00-20	T/T	14

Size	Type	Ply Rating
FGF(L2)		
10.00-20	T/T	16

Size	Type	Ply Rating
FG(L2)		
23x8.50-12	T/T	4
27x8.50-15	T/T	4
33x12.5-15	T/T	8
12.5/70-16	T/L	6 8
10-16.5	T/L	6 8
12-16.5	T/L	8 10
	T/T	8
15.5/60-18	T/L	8
15.5/70-18	T/L	8
10.00-20	T/T	10 12 14
11.00-20	T/T	10 16
15.5/70-20	T/L	10
42x17-20	T/T	10
17.5/65-20	T/L	10
13.00-24 TG	T/L	12
	T/T	12
14.00-24 TG	T/L	12 14
	T/T	12
16.9-24	T/T	10
18.4-24	T/T	10
15.5-25	T/L	12
17.5-25	T/L	12 16
20.5-25	T/L	12
	T/T	12

T/T: Tube Type
T/L: Tubeless Type
TG: For Semi-Drop Center Rim



Size	Type	Ply Rating
VL2(L3)		
15.5-25	T/L	12

Size	Type	Ply Rating
NL(L4)		
35/65-33	T/L	24 30

Size	Type	Ply Rating
DL(L5)		
17.5-25	T/L	16
20.5-25	T/L	12 16
23.5-25	T/L	20
26.5-25	T/L	20 26
29.5-25	T/L	28
35/65-33	T/L	42
40/65-39	T/L	56
41.25/70-39	T/L	42
45/65-45	T/L	58
50/65-51	T/L	62
65/65-57	T/L	62

Size	Type	Ply Rating
RLS(L4)		
14.00-24	T/T	20
23.5-25	T/L	16
26.5-25	T/L	26
29.5-25	T/L	28

Size	Type	Ply Rating
STMS(L5S)		
12.00-24	T/T	16 20
14.00-24	T/T	20
17.5-25	T/L	20
18.00-25	T/L	24 28 32
26.5-25	T/L	32 36
29.5-29	T/L	34

■ Compactor Service



RR

Size	Type	Ply Rating
------	------	------------

RR(C1)

7.50-15	T/T	12
9.5/65-15	T/T	6
7.50-16	T/L	6
	T/T	6
10.5/80-16	T/L	6
9.00-20	T/T	10
14/70-20	T/T	12



AL2

AL2(C2)

23.1-26	T/L	8
	T/T	8

■ Logging Service



TGS

TGS(LS2)

30.5L-32	T/T	16
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■ Sand Service



SCP2

SCP2(E7)

14.00-20	T/T	18
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■ Industrial Service



RL

Size	Type	Ply Rating
------	------	------------

RL

12.00-20	T/T	20
14.00-24	T/T	24 28
14.00-24 TG	T/L	24
16.00-25	T/L	28 32
	T/T	28
18.00-25	T/L	36 40
21.00-25	T/L	40
21.00-35	T/L	40



RLS

RLS

14.00-24 TG	T/L	24
16.00-25	T/L	28 32



ELS2

ELS2

18.00-25	T/L	40
18.00-33	T/L	36
21.00-35	T/L	40



STMS

STMS

12.00-24	T/T	20
18.00-25	T/L	40



YS2

YS2

16.00-25	T/L	32
----------	-----	----

T/T: Tube Type
T/L: Tubeless Type

T/T: Tube Type
T/L: Tubeless Type
TG: For Semi-Drop Center Rim

3. Technical Data

Tire Size	Pattern	Ply Rating	TRA Code or Application	Spec	TKPH	TMPH	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height
							OD	OW	SLR	SLW			
							mm inch	mm inch	mm inch	mm inch			
12"													
23x8.50-12	FG	4	L2	-	-	-	576 22.7	215 8.5	265 10.4	223 8.8	14.5	-	5JA
15"													
7.50-15	RR	12	C1	-	-	-	775 30.5	209 8.2	360 14.2	225 8.9	-	250 9.8	6.00GS
27x8.50-15	FG	4	L2	-	-	-	686 27.0	208 8.2	317 12.5	218 8.6	16.5	-	7JA
9.5/65-15	RR	6	C1	-	-	-	671 26.4	238 9.4	312 12.3	242 9.5	-	-	7JA
33x12.5-15	FG	8	L2	-	-	-	851 33.5	318 12.5	TBA* TBA*	TBA* TBA*	22.5	-	10.00F
16"													
7.50-16 Tubeless	RR	6	C1	-	-	-	814 32.0	225 8.9	379 14.9	243 9.6	-	250 9.8	6.00GS 6LB
7.50-16							776 30.6	214 8.4	361 14.2	224 8.8			
10.5/80-16 Tubeless	RR	6	C1	-	-	-	812 32.0	272 10.7	376 14.8	282 11.1	-	-	8LB
12.5/70-16 Tubeless	FG	6 8	L2	-	-	-	860 33.9	319 12.6	389 15.3	336 13.2	21.0	-	10LB
16.5"													
10-16.5 Tubeless	FG	6 8	L2	-	-	-	771 30.4	268 10.6	353 13.9	278 10.9	19.5	-	8.25
12-16.5 Tubeless							831 32.7	315 12.4	376 14.8	325 12.8		-	9.75
12-16.5	FG	8 10 8	L2	-	-	-					20.0	-	

*Due to factory transfer.

For the TKPH(TMPH) Ratings of Bias Tires

- For the TR 11 (M 11) Ratings of Bias Tires

 - 1) The figures are at 38°C (or 100°F) ambient temperature. If the ambient temperature is over 38°C (or 100°F), consult a Bridgestone Representative.
 - 2) If the round-trip distance is less than 5km (or 3 miles), the above ratings can be increased by 12%.
 - 3) If the Maximum Speed exceeds 50km/h (or 30 mph), consult a Bridgestone Representative.
 - 4) When haul length exceeds 16km (10miles) one way, consult a Bridgestone Representative.

Pattern	Application Max.Speed km/h mph	Tire Load Limits at Various Cold Inflation Pressures																		Size			
12"																							
		kPa psi	180 26	200 29	220 32	240 35	260 38																
FG	Loader	PR kg lbs	550 1210	585 1290	620 1365	655 1445	685 1510	4															
15"		kPa psi	350 51	375 54	400 58	425 62	450 65	475 69	500 73	525 76	550 80	575 84	600 87	625 91	650 94	675 98	700 102	725 105	750 109	23x8.50-12			
RR	Compactor	PR kg lbs	1700 3740	1750 3860	1850 4080	1900 4180	1950 4300	2060 4540	2120 4680	2180 4800	2240 4940	2300 5080	2300 5080	2360 5200	2430 5360	2500 5520	2575 5680	2575 5680	2650 5840	7.50-15			
		kPa psi	180 26	200 29	220 32	240 35	260 38	280 41	300 44	325 47													
FG	Loader	PR kg lbs	695 1530	740 1630	780 1720	820 1805	860 1895	4													27x8.50-15		
RR	Compactor	PR kg lbs	1100 2430	1155 2550	1205 2560	1255 2770	1315 2900	6													9.5/65-15		
		kPa psi	120 17	140 20	160 23	180 26	200 29	220 32	240 35	260 38	280 41	300 44	325 47	350 51	375 54	400 58	425 62	450 65			33x12.5-15		
FG	Loader	PR kg lbs	1510 3330	1605 3540	1695 3735	1785 3935	1870 4125	1950 4300	2035 4485	2130 4695	8												
16"		RR	Compactor	PR kg lbs	6															7.50-16			
		RR	Compactor	PR kg lbs	6															10.5/80-16			
		FG	Loader	PR kg lbs	6															12.5/70-16			
16.5"		FG	Loader	PR kg lbs	6															10-16.5			
		FG	Loader	PR kg lbs	8															12-16.5			

For the Load and Inflation Pressure Tables of Bias Tires

- For the Load and Inflation Pressure Tables of Bias Tires**

 - 1) Maximum Speeds are as below. Earthmover Service : 50km/h (30mph), Grader Service : 40km/h (25mph), Loader & Dozer Service : 10km/h (5mph), Compactor Service : 10km/h (5mph)
 - 2) Figures under the ply rating denote the maximum load and inflation pressures.
 - 3) For Loader & Dozer Service, Dig & Load Operation or distances are up to 76m (250ft) one way.
 - 4) For Load & Carry operations, tire load limit will be adjusted following the table of page 83.

Tire Size	Pattern	Ply Rating	TRA Code or Application	Spec	TKPH	TMPH	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height
							OD	OW	SLR	SLW			
							mm inch	mm inch	mm inch	mm inch			
18"													
15.5/60-18 Tubeless	FG	8	L2	-	-	-	932 36.7	391 15.4	416 16.4	404 15.9	21.5	- -	W10
15.5/70-18 Tubeless	FG	8	L2	-	-	-	1035 40.7	405 15.9	459 18.1	424 16.7	20.5	- -	W13
20"													
9.00-20	RG	10	G1	-	-	-	1023 40.3	267 10.5	473 18.6	291 11.5	15.0	- -	7.00T
	RR	10	C1	-	-	-	1005 39.6	265 10.4	458 18.0	297 11.7	-	310 12.2	
	GL	14	G2,L2	-	-	-	1023 40.3	255 10.0	478 18.8	276 10.9	21.0	- -	
	WL	14	E3	SCR	-	-	1027 40.4	257 10.1	466 18.3	280 11.0	19.5	310 12.2	
10.00-20	FG	10	L2	-	-	-	1064 41.9	281 11.1	479 18.9	307 12.1	24.0	- -	7.50V
		12											
		14											
	FGF	16	L2	-	-	-	1057 41.6	276 10.9	478 18.8	302 11.9	18.0	334 13.1	
	RL	14	E3	CRT	42	29	1067 42.0	285 11.2	489 19.3	304 12.0	22.5	- -	
11.00-20	FG	10	L2	-	-	-	1100 43.3	299 11.8	510 20.0	323 12.7	24.5	352 13.9	8.00V
		16											
	RL	14	E3	CRT	49	34	1091 43.0	296 11.7	514 20.2	311 12.2	24.0	344 13.5	

For the TKPH(TMPH) Ratings of Bias Tires

- 1) The figures are at 38°C (or 100°F) ambient temperature. If the ambient temperature is over 38°C (or 100°F), consult a Bridgestone Representative.
 - 2) If the round-trip distance is less than 5km (or 3 miles), the above ratings can be increased by 12%.
 - 3) If the Maximum Speed exceeds 50km/h (or 30 mph), consult a Bridgestone Representative.
 - 4) When haul length exceeds 16km (10miles) one way, consult a Bridgestone Representative.

For the Load and Inflation Pressure Tables of Bias Tires

- 1) Maximum Speeds are as below. Earthmover Service : 50km/h (30mph), Grader Service : 40km/h (25mph), Loader & Dozer Service : 10km/h (5mph), Compactor Service : 10km/h (5mph)
 - 2) Figures under the ply rating denote the maximum load and inflation pressures.
 - 3) For Loader & Dozer Service, Dig & Load Operation or distances are up to 76m (250ft) one way.
 - 4) For Load & Carry operations, the load limit will be adjusted following the table of page 83.

Tire Size	Pattern	Ply Rating	TRA Code or Application	Spec	TKPH	TMPH	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height
							OD mm inch	OW mm inch	SLR mm inch	SLW mm inch			
							mm	inch	mm	inch			
12.00-20	RL	18	E3	SCR	52	36	1138 44.8	316 12.4	513 20.2	331 13.0	25.5	382 15.0	8.50V
		20	Industrial Service	IDU	-	-	See characteristics page 78						
14.00-20	SCP2	18	E7	-	-	-	See characteristics page 80						
14/70-20	RR	12	C1	-	-	-	970 38.2	380 15.0	448 17.6	392 15.4	-	-	11.00TG
15.5/70-20 Tubeless	FG	10	L2	-	-	-	1072 42.2	410 16.1	TBA* TBA*	TBA* TBA*	21.5	-	W13
42x17-20	FG	10	L2	-	-	-	1077 42.4	431 17.0	TBA* TBA*	TBA* TBA*	25.5	-	14.00TG
17.5/65-20 Tubeless	FG	10	L2	-	-	-	1107 43.6	450 17.7	TBA* TBA*	TBA* TBA*	25.0	-	W14L
24"													
12.00-24	RL	20	E3	DE2	66	45	1238 48.7	326 12.8	576 22.7	341 13.4	24.5	-	8.5 8.50V
		16	L3	D2A	-	-	1257 49.5	330 13.0	584 23.0	346 13.6		391 15.4	
	STMS	16	L5S	D2A	-	-	1275 50.2	321 12.6	606 23.9	339 13.3	55.0	-	8.5 8.50V
		20			-	-	1286 50.6	340 13.4	588 23.1	374 14.7		28.0	
See characteristics page 78													
13.00-24 TG Tubeless	FG	12	G2	DG2	-	-	1286 50.6	340 13.4	588 23.1	374 14.7	28.0	-	8.00TG (10.00VA)
13.00-24 TG		10	G2	G2A	-	-							
		12	L2	D2A	-	-							

*Due to factory transfer.

For the TKPH(TMHP) Ratings of Bias Tires

- 1) The figures are at 38°C (or 100°F) ambient temperature. If the ambient temperature is over 38°C (or 100°F), consult a Bridgestone Representative.
- 2) If the round-trip distance is less than 5km (or 3 miles), the above ratings can be increased by 12%.
- 3) If the Maximum Speed exceeds 50km/h (or 30 mph), consult a Bridgestone Representative.
- 4) When haul length exceeds 16km (10miles) one way, consult a Bridgestone Representative.

Pattern	Application Max.Speed km/h mph	Tire Load Limits at Various Cold Inflation Pressures												Size			
		kPa psi	275 40	300 44	325 47	350 51	375 54	400 58	425 62	450 65	475 69	500 73					
RL	E/M 50 30	PR kg lbs	2180 4800	2300 5080	2430 5360	2500 5520	2650 5840	2725 6000	2800 6150	2900 6400	3000 6600	3075 6800	18	12.00-20			
RL	IDU	See characteristics page 79												12.00-20			
SCP2	Sand	See characteristics page 81												14.00-20			
RR	Compactor 10 5	PR kg lbs	12												14/70-20		
FG	Loader 10 5	PR kg lbs	1835 4045	2010 4430	2175 4795	2330 5135	2475 5455	2620 5775	2755 6075	2890 6370	10	10				15.5/70-20	
FG			10												42x17-20		
FG			10												17.5/65-20		
24"																	
RL	E/M 50 30	PR kg lbs	2500 5520	2575 5680	2725 6000	2800 6150	3000 6600	3075 6800	3150 6950	3250 7150	3350 7400	3450 7600	3550 7850	3650 8050	20	12.00-24	
		PR kg lbs	475 69	500 73	525 76	550 80	575 83	600 87	625 91	650 94	675 98	700 102	725 105	750 109	775 112	800 115	825 120
RL	Loader 10 5	PR kg lbs	16												20	13.00-24 TG	
STMS	IDU	See characteristics page 79													13.00-24 TG		
PR kg lbs	5000 11000	5150 11400	5300 11700	5450 12000	5600 12300	5600 12300	5800 12800	6000 13200	6150 13600	6270 13790	6410 14100	6540 14390	6660 14700	6780 14900	6900 15200		
PR kg lbs	1700 3740	1900 4180	2060 4540	2240 4940	2360 5200	2500 5520	2650 5840	2725 6000	10	12							
PR kg lbs	4500 9900	4750 10500	5000 11000	5150 11400	5300 11700	5600 12300	4500 9900	4750 10500	5000 11000	5150 11400	5300 11700	5600 12300	12				

For the Load and Inflation Pressure Tables of Bias Tires

- 1) Maximum Speeds are as below. Earthmover Service : 50km/h (30mph), Grader Service : 40km/h (25mph), Loader & Dozer Service : 10km/h (5mph), Compactor Service : 10km/h (5mph)
- 2) Figures under the ply rating denote the maximum load and inflation pressures.
- 3) For Loader & Dozer Service, Dig & Load Operation or distances are up to 76m (250ft) one way.
- 4) For Load & Carry operations, tire load limit will be adjusted following the table of page 83.

Tire Size	Pattern	Ply Rating	TRA Code or Application	Spec	TKPH	TMMPH	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height
							OD mm inch	OW mm inch	SLR mm inch	SLW mm inch			
							mm inch	mm inch	mm inch	mm inch			
14.00-24	RL	28	E3	E2A	109	75	1355 53.3	387 15.2	627 24.7	400 15.7	28.0	450 17.7	10.00W
		24	L3	D2A	-	-							
		Industrial Service	IDU	-	-								
		28											
	RLS	20	L4	D2A	-	-	1407 55.4	390 15.4	646 25.4	440 17.3	48.0	450 17.7	10.00W
	STMS	20	L5S	D2A	-	-	1373 54.1	367 14.4	646 25.4	391 15.4	78.0	-	
14.00-24 TG Tubeless	FG	14	G2	G2A	-	-	1336 52.6	375 14.8	606 23.9	374 14.7	31.0	-	8.00TG (10.00VA)
		12	L2	D2A	-	-	1336 52.6	390 15.4	TBA TBA	TBA TBA			10.00VA
	RL	12	L3	D2A D2V	-	-	1355 53.3	387 15.2	614 24.2	410 16.1	28.0	450 17.7	10.00VA (8.00TG)
		24	Industrial Service	IDU	-	-							
	RLS	24	Industrial Service	IDU	-	-							
14.00-24 TG	FG	12	G2	G2A	-	-	1336 52.6	375 14.8	606 23.9	400 15.7	31.0	-	8.00TG (10.00VA)
		16					395 15.6			430 16.9			10.00VA (8.00TG)
		12	L2	D2A	-	-	1330 52.3	390 15.4	TBA TBA	TBA TBA			10.00VA
	FG	16	G2	G2A	-	-	1453 57.2	438 17.2	638 25.1	500 19.7	32.5	-	10.00VA
		RL	16	G3, L3	DG2	-	-	1478 58.2	419 16.5	671 26.4	446 17.6	513 20.2	
16.9-24	FG	10	L2	-	-	-	1320 52.0	447 17.6	591 23.3	462 18.2	30.5	-	W15L
18.4-24	FG	10	L2	-	-	-	1385 54.5	483 19.0	612 24.1	516 20.3	32.5	-	W16L
25"													
15.5-25 Tubeless	FG	12	L2	D2A	-	-	1284 50.6	410 15.7	565 22.2	399 15.7	23.5	-	12.00/1.3
	VL2	12	L3	D2A	-	-	1284 50.6	410 15.6	568 22.4	448 17.6	27.0	-	

For the TKPH(TMMPH) Ratings of Bias Tires

- 1) The figures are at 38°C (or 100°F) ambient temperature. If the ambient temperature is over 38°C (or 100°F), consult a Bridgestone Representative.
- 2) If the round-trip distance is less than 5km (or 3 miles), the above ratings can be increased by 12%.
- 3) If the Maximum Speed exceeds 50km/h (or 30 mph), consult a Bridgestone Representative.
- 4) When haul length exceeds 16km (10miles) one way, consult a Bridgestone Representative.

Pattern	Application Max.Speed km/h mph	Tire Load Limits at Various Cold Inflation Pressures																		Size	
		kPa psi	275 40	300 44	325 47	350 51	375 54	400 58	425 62	450 65	475 69	500 73	525 76	550 80	575 83	600 87	625 91	650 94			
RL	E/M 50 kg 30 lbs	PR	3350 7400	3550 7850	3750 8250	3875 8550	4000 8800	4250 9350	4375 9650	4500 9900	4625 10200	4750 10500	4875 10700	5000 11000	5150 11400	5300 11700	5450 12000	5600 12300	24	28	
RL	E/M 10 kg 5 lbs	PR	425 62	450 65	475 69	500 73	525 76	550 80	575 83	600 87	625 91	650 94	675 98	700 102	725 105	750 109	775 112	800 115	825 120	850 124	
RL	Loader 10 kg 5 lbs	PR	12 6300 13900	15 6500 14300	25 6700 14800	30 6900 15200	35 7100 15700	40 7300 16100	45 7500 16500	50 7750 17100	55 8000 17600	60 8250 18200	65 8500 18700	70 8670 19100	75 8830 19500	80 9000 19800	85 9170 20200	90 9330 20600	95 9500 21000	24	24
RL	IDU		See characteristics page 79																		
FG	Grader 40 kg 25 lbs	PR	125 18	150 22	175 25	200 29	225 33	250 36	275 40	300 44	325 47	350 51	375 54	400 58	425 62	450 65	475 69	500 73	525 77	550 80	
FG	Loader 10 kg 5 lbs	PR	2060 4540	2300 5080	2500 5520	2650 5840	2800 6150	3075 6800	3250 7150	3450 7600	3550 7850	3650 8050	3750 8250	3850 8500	3950 8670	4050 8830	4150 9000	4250 9170	4350 9330	4450 9500	4550 9700
FG	Loader 10 kg 5 lbs	PR	12 6300 13900	14 6500 14300	16 6700 14800	18 6900 15200	20 7100 15700	22 7300 16100	24 7500 17100	26 7750 17600	28 8000 18200	30 8250 18700	32 8500 19100	34 8670 19500	36 8830 19800	38 9000 20200	40 9170 20600	42 9330 21000	44 9500 21400	46 9700 21800	48 9900 22200
RL	IDU		See characteristics page 79																		
FG	Grader 40 kg 25 lbs	PR	2650 5840	3000 6600	3250 7150	3450 7600	3650 8050	4000 8800	4250 9350	4500 9900	4750 10500	5000 11000	5250 11400	5500 11700	5750 12300	6000 12300	6250 12700	6500 13100	6750 13500	7000 13900	7250 14300
RL	Loader 10 kg 5 lbs	PR	7100 15700	7300 16100	7500 17100	7750 17600	8000 18200	8250 18700	85												

For the TKPH(TMPH) Ratings of Bias Tires

- For the TR11 (Tire 11) Ratings of Bias Tires

 - 1) The figures are at 38°C (or 100°F) ambient temperature. If the ambient temperature is over 38°C (or 100°F), consult a Bridgestone Representative.
 - 2) If the round-trip distance is less than 5km (or 3 miles), the above ratings can be increased by 12%.
 - 3) If the Maximum Speed exceeds 50km/h (or 30 mph), consult a Bridgestone Representative.
 - 4) When haul length exceeds 16km (10miles) one way, consult a Bridgestone Representative.

For the Load and Inflation Pressure Tables of Bias Tires

- For the Load and Inflation Pressure Tables of Bias Tires**

 - 1) Maximum Speeds are as below. Earthmover Service : 50km/h (30mph), Grader Service : 40km/h (25mph), Loader & Dozer Service : 10km/h (5mph), Compactor Service : 10km/h (5mph)
 - 2) Figures under the ply rating denote the maximum load and inflation pressures.
 - 3) For Loader & Dozer Service, Dig & Load Operation or distances are up to 76m (250ft) one way.
 - 4) For Load & Carry operations, tire load limit will be adjusted following the table of page 83.

Tire Size	Pattern	Ply Rating	TRA Code or Application	Spec	TKPH	TMMPH	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height
							OD mm inch	OW mm inch	SLR mm inch	SLW mm inch			
							mm	inch	mm	inch			
20.5-25 Tubeless	FG	12	G2, L2	DG2	-	-	1493 58.8	534 21.0	652 25.7	551 21.7	29.5	-	17.00/1.7 (12,16PR) 17.00/2.0
	VL2	16 20 24	E3 L3	DE2	80 -	55 -	1494 58.8	542 21.3	641 25.2	587 23.1	33.0	-	
							1558 61.3	548 21.6	714 28.1	570 22.4	79.5	-	
	DL	12 16	L5	D2A	-	-	1493 58.8	534 21.0	652 25.7	551 21.7	29.5	-	
	20.5-25	FG	12	G2, L2	DG2	-	-	1493 58.8	534 21.0	652 25.7	551 21.7	29.5	-
		VL2	16 20	L3	D2A	-	-	1494 58.8	542 21.3	641 25.2	587 23.1	33.0	-
21.00-25 Tubeless	RL	40	Industrial Service	IDU	-	-	See characteristics page 78						
23.5-25 Tubeless	VL2	16 20 24	E3 L3	DE2	107 -	73 -	1607 63.3	618 24.3	682 26.9	688 27.1	43.0	-	19.50/2.5
	RLS	16	L4	D2A	-	-	1658 65.3	615 24.2	724 28.5	668 26.3	67.5	-	
	DL	20	L5	D2A	-	-	1673 65.9	616 24.3	779 30.7	646 25.4	88.0	-	
23.5-25	VL2	16 20 24	L3	D2A	-	-	1607 63.3	618 24.3	682 26.9	688 27.1	43.0	-	

For the TKPH(TMMPH) Ratings of Bias Tires

- 1) The figures are at 38°C (or 100°F) ambient temperature. If the ambient temperature is over 38°C (or 100°F), consult a Bridgestone Representative.
- 2) If the round-trip distance is less than 5km (or 3 miles), the above ratings can be increased by 12%.
- 3) If the Maximum Speed exceeds 50km/h (or 30 mph), consult a Bridgestone Representative.
- 4) When haul length exceeds 16km (10miles) one way, consult a Bridgestone Representative.

Pattern	Application Max.Speed km/h mph	Tire Load Limits at Various Cold Inflation Pressures																Size	
		kPa psi	125 18	150 22	175 25	200 29	225 33	250 36	275 40	300 44	325 47	350 51	375 54	400 58	425 62	450 65	475 69		
VL2	E/M 50 30	PR kg lbs																20.5-25	
FG	Grader 40 25	PR kg lbs																20.5-25	
	For slope and ditching service, inflation pressures should be increased by 100kPa (15psi) with no increase in load rating. For extreme conditions, consult a Bridgestone Representative for additional recommended operating requirements.																	20.5-25	
FG	Loader VL2 10 5	PR kg lbs																21.00-25	
RL	IDU		See characteristics page 79																21.00-25
																		21.00-25	
VL2	Loader RLS DL	PR kg lbs																23.5-25	
VL2	E/M 50 30	PR kg lbs																23.5-25	

For the Load and Inflation Pressure Tables of Bias Tires

- 1) Maximum Speeds are as below. Earthmover Service : 50km/h (30mph), Grader Service : 40km/h (25mph), Loader & Dozer Service : 10km/h (5mph), Compactor Service : 10km/h (5mph)
- 2) Figures under the ply rating denote the maximum load and inflation pressures.
- 3) For Loader & Dozer Service, Dig & Load Operation or distances are up to 76m (250ft) one way.
- 4) For Load & Carry operations, tire load limit will be adjusted following the table of page 83.

Tire Size	Pattern	Ply Rating	TRA Code or Application	Spec	TKPH	TMMPH	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height
							OD mm inch	OW mm inch	SLR mm inch	SLW mm inch			
							mm inch	mm inch	mm inch	mm inch			
26.5-25 Tubeless	VL2	20	E3	DE2	132	90	1738 68.4	683 26.9	745 29.3	734 28.9	44.0	-	22.00/3.0
		24	L3	D2A	-	-	1785 70.3	700 27.6	800 31.5	736 29.0	67.0	-	
		26			-	-						-	
		16	L4	D2A	-	-	1798 70.8	694 27.3	815 32.1	727 28.6	97.0	-	
		24			-	-						-	
	RLS	26	L5	D2A	-	-	1798 70.8	694 27.3	815 32.1	727 28.6	97.0	-	
		20			-	-	1798 70.8	680 26.8	827 32.6	719 28.3	95.0	-	
		26			-	-						-	
		32	L5S	D2A	-	-	1798 70.8	680 26.8	827 32.6	719 28.3	95.0	-	
		36			-	-	-						
26.5-25	VL2	20	L3	D2A	-	-	1738 68.4	683 26.9	745 29.3	734 28.9	44.0	-	
		24			-	-	-						
29.5-25 Tubeless	VL2	22	E3	DE2	150	103	1850 72.8	770 30.3	792 31.2	833 32.8	49.0	-	25.00/3.5
		28	L3	D2A	-	-	1912 75.3	784 30.9	813 32.0	805 31.7	74.0	-	
		28			-	-						-	
	RLS	28	L4	D2A	-	-	1900 74.8	768 30.2	873 34.4	805 31.7	105.5	-	
		28			-	-	-						
		28	L5	D2A	-	-	-						
26"													
23.1-26 Tubeless	AL2	8	C2	-	-	-	1472 58.0	595 23.4	654 25.7	618 24.3	19.0	-	DW20A DW20B
23.1-26	AL2	8	C2	-	-	-	1472 58.0	595 23.4	654 25.7	618 24.3	19.0	-	
29"													
29.5-29 Tubeless	STMS	34	L5S	D2A	-	-	2023 79.6	749 29.5	931 36.7	792 31.2	103.0	-	25.00/3.5
					D2Z								
32"													
30.5L-32	TGS	16	LS2	S2V	-	-	1847 72.7	780 30.7	840 33.1	790 31.1	56.0	-	DW27A DW27B

For the TKPH(TMMPH) Ratings of Bias Tires

- 1) The figures are at 38°C (or 100°F) ambient temperature. If the ambient temperature is over 38°C (or 100°F), consult a Bridgestone Representative.
- 2) If the round-trip distance is less than 5km (or 3 miles), the above ratings can be increased by 12%.
- 3) If the Maximum Speed exceeds 50km/h (or 30 mph), consult a Bridgestone Representative.
- 4) When haul length exceeds 16km (10miles) one way, consult a Bridgestone Representative.

Pattern	Application Max.Speed km/h mph	Tire Load Limits at Various Cold Inflation Pressures																Size		
		kPa psi	175 25	200 29	225 33	250 36	275 40	300 44	325 47	350 51	375 54	400 58	425 62	450 65	475 69	500 73	525 76	550 80		
VL2	E/M 50 30	PR kg lbs	20 24 26																26.5-25	
		6700 14800	7300 16100	7750 17100	8250 18200	8750 19300	9250 20400	9500 20900												
VL2	Loader 10 5	PR kg lbs	16 20 24 26																29.5-25	
		10000 22000	10900 24000	11500 25400	12150 26800	12850 27600	13200 29100	13600 30000	14000 32000	14500 33100	15000 34200	15500 35300	16000 36480	16500 37500	17000 38600	17500 38600				
26"																			23.1-26	
29"																				29.5-29
STMS	Loader 10 5	PR kg lbs	22 28																30.5L-32	
		8000 17600	8750 19300	9250 20400	10000 22000	10600 23400	10900 24000	11500 25400												
VL2	Loader 10 5	PR kg lbs	28																30.5L-32	
		12150 26800	12850 2																	

Tire Size	Pattern	Ply Rating	TRA Code or Application	Spec	TKPH	TMPH	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height
							OD	OW	SLR	SLW			
							mm inch	mm inch	mm inch	mm inch			
33"													
18.00-33 Tubeless	RLS	32	E4	E2A	161	110	1877 73.9	504 19.8	860 33.9	530 20.9	56.5	587 23.1	13.00/2.5
	ELS2	32	E4	E2A	161	110	1860 73.2	509 20.0	887 34.9	533 21.0	66.5	587 23.1	
		36	Industrial Service	IDU	-	-	See characteristics page 78						
35/65-33 Tubeless	NL	24	L4	D2V	-	-	2085 82.1	890 35.0	953 37.5	928 36.5	62.5	-	28.00/3.5
		30			-	-	2085 82.1	890 35.0	979 38.5	945 37.2	97.0	-	
	DL	42	L5	D2V	-	-	2085 82.1	890 35.0	979 38.5	945 37.2	97.0	-	
35"													
21.00-35 Tubeless	RL	40	Industrial Service	IDU	-	-	See characteristics page 80						
	ELS2	40	Industrial Service	IDU	-	-							
37.25-35 Tubeless	RL	36	E3	E1A	358	245	2330 91.7	955 37.6	1060 41.7	1000 39.4	51.5	-	31.00/4.0
39"													
40/65-39 Tubeless	DL	56	L5	D2V	-	-	2420 95.3	1020 40.2	1112 43.8	1070 42.1	106.5	-	32.00/4.0
41.25/70-39 Tubeless	DL	42	L5	D2V	-	-	2510 98.8	1054 41.5	1145 45.1	1104 43.5	115.5	-	32.00/4.5
45"													
45/65-45 Tubeless	DL	58	L5	D2V	-	-	2730 107.5	1146 45.1	1261 49.6	1185 46.6	116.0	-	36.00/4.5
51"													
50/65-51 Tubeless	DL	62	L5	D2A	-	-	3070 120.9	1260 49.6	1412 55.6	1300 51.2	127.5	-	40.00/4.5
				D2V			3070 120.9	1260 49.6	1412 55.6	1300 51.2	127.5		
57"													
65/65-57 Tubeless	DL	62	L5	D2V	-	-	3735 147.0	1640 64.6	1672 65.8	1706 67.2	142.5	-	52.00/6.0

For the TKPH(TMPH) Ratings of Bias Tires

- 1) The figures are at 38°C (or 100°F) ambient temperature. If the ambient temperature is over 38°C (or 100°F), consult a Bridgestone Representative.
 - 2) If the round-trip distance is less than 5km (or 3 miles), the above ratings can be increased by 12%.
 - 3) If the Maximum Speed exceeds 50km/h (or 30 mph), consult a Bridgestone Representative.
 - 4) When haul length exceeds 16km (10miles) one way, consult a Bridgestone Representative.

For the Load and Inflation Pressure Tables of Bias Tires

- 1) Maximum Speeds are as below. Earthmover Service : 50km/h (30mph), Grader Service : 40km/h (25mph), Loader & Dozer Service : 10km/h (5mph), Compactor Service : 10km/h (5mph)
 - 2) Figures under the ply rating denote the maximum load and inflation pressures.
 - 3) For Loader & Dozer Service, Dig & Load Operation or distances are up to 76m (250ft) one way.
 - 4) For Load & Carry operations, tire load limit will be adjusted following the table of page 83.

Tire Size	Pattern	Ply Rating	TRA Code or Application	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height							
				OD mm inch	OW mm inch	SLR mm inch	SLW mm inch										
Industrial Service																	
20"																	
12.00-20	RL	20	Industrial Service	1138 44.8	316 12.4	507 20.0	348 13.7	24.0	378 14.9	8.50V							
24"																	
12.00-24	STMS	20	Industrial Service	1275 50.2	321 12.6	606 23.9	339 13.3	55.0	391 15.4	8.50V							
14.00-24	RL	24 28	Industrial Service	1355 53.3	367 14.4	627 24.7	400 15.7	28.0	450 17.7	10.00W							
14.00-24 TG Tubeless	RL	24	Industrial Service	1360 53.5	395 15.6	614 24.2	410 16.1	28.0	450 17.7	10.00VA							
	RLS	24	Industrial Service	1407 55.4	390 15.4	646 25.4	440 17.3	48.0	-								
25"																	
16.00-25 Tubeless	RL	28 32	Industrial Service	1495 58.9	445 17.5	671 26.4	459 18.1	33.5	513 20.2	11.25/2.0							
	RLS	28 32	Industrial Service	1548 60.9	438 17.2	722 28.4	460 18.1	57.0	513 20.2								
	YS2	32	Industrial Service	1465 57.7	430 16.9	658 25.9	472 18.6	49.2	513 20.2								
16.00-25	RL	28	Industrial Service	1478 58.2	445 17.5	671 26.4	459 18.1	33.5	513 20.2								
18.00-25 Tubeless	RL	36 40	Industrial Service	1608 63.3	508 20.0	727 28.6	572 22.5	36.0	587 23.1	13.00/2.5							
	ELS2	40	Industrial Service	1685 66.3	515 20.3	796 31.3	530 20.9	66.5	587 23.1								
	STMS	40	Industrial Service	1675 65.9	520 20.5	762 30.0	550 21.7	84.0	587 23.1								
21.00-25	RL	40	Industrial Service	1745 68.7	560 22.0	775 30.5	620 24.4	41.0	668 26.3	15.00/3.0							
33"																	
18.00-33 Tubeless	ELS2	36	Industrial Service	1860 73.2	509 20.0	887 34.9	533 21.0	66.5	587 23.1	13.00/2.5							

Pattern	Appli.	Ply Rating	Inflation Pressure	Tire Load Limits at Various Speeds												Size				
				Tire Load Limits at Various Speeds																
Industrial Service																				
20"																				
				kPa psi	km/h mph	0 Static	Creep Creep	5 3	10 5	15 9	20 12	25 15	30 19							
RL	IDU	20	Load Wheel	1000 kg 145	11880 26200 lbs	10560 23290	9570 21100	8910 19650	8580 18920	8380 18480	8250 18190	8185 18050					12.00-20			
			Steering Wheel	1000 kg 145	9505 20960	8450 18630	7655 16880	7130 15720	6865 15135	6705 14785	6600 14550	6550 14440								
24"																				
STMS	IDU	20	Load Wheel	1000 kg 145	12420 27385	11040 24345	10005 22060	9315 20540	8970 19780	8765 19320	8625 19020	8555 18865					12.00-24			
			Steering Wheel	1000 kg 145	9935 21910	8830 19475	8005 17650	7450 16430	7175 15825	7010 15455	6900 15215	6845 15090								
RL RLS	IDU	24	Load Wheel	1000 kg 145	17100 37705	15200 33515	13775 30375	12825 28280	12350 27230	12065 26605	11875 26185	11780 25975					14.00-24			
			Steering Wheel	1000 kg 145	13680 30165	12160 26810	11020 24300	10260 22625	9880 21785	9650 21280	9500 20945	9425 20780								
		28	Load Wheel	1000 kg 145	18000 39690	16000 35280	14500 31970	13500 29765	13000 28665	12700 28005	12500 27560	12400 27340								
			Steering Wheel	1000 kg 145	14400 31750	12800 28225	11600 25580	10800 23815	10400 22930	10160 22400	10000 22050	9920 21875								
25"																				
RL RLS YS2	IDU	28	Load Wheel	900 kg 131	20700 45645	18400 40570	16675 36770	15525 34230	14950 32965	14605 32205	14375 31695	14260 31445					16.00-25			
			Steering Wheel	900 kg 131	16560 36515	14720 32455	13340 29415	12420 27385	11960 26370	11685 25765	11500 25355	11410 25155								
		32	Load Wheel	1000 kg 145	22500 49610	20000 44100	18125 39965	16875 37210	16250 35830	15875 35005	15625 34455	15500 34175								
			Steering Wheel	1000 kg 145	18000 39690	16000 35280	14500 31970	13500 29765	13000 28665	12700 28005	12500 27560	12400 27340								
RL ELS2 STMS	IDU	36	Load Wheel	1000 kg 145	28800 63505	25600 56450	23200 51155	21600 47630	20800 45865	20320 44805	20000 44100	19840 43745					18.00-25			
			Steering Wheel	1000 kg 145	23040 50805	20480 45160	18560 40925	17280 38100	16640 36690	16255 35845	16000 35280	15870 34995								

Tire Size	Pattern	Ply Rating	TRA Code or Application	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height	
				OD mm inch	OW mm inch	SLR mm inch	SLW mm inch				
				mm	mm inch	mm inch	inch				
35"											
21.00-35 Tubeless	RL	40	Industrial Service	2000 78.7	575 22.6	937 36.9	648 25.5	41.0	701 27.6	15.00/3.0	21.00-35
	ELS2	40	Industrial Service	2040 80.3	592 23.3	955 37.6	617 24.3	67.0	701 27.6		

Pattern	Appli.	Ply Rating	Inflation Pressure	Tire Load Limits at Various Speeds											Size	
				Tire Load Limits at Various Speeds												
35"				kPa psi	km/h mph	0 Static	Creep Creep	5 3	10 5	15 9	20 12	25 15	30 19			
RL ELS2	IDU	40	Load Wheel	1000	kg lbs	43740	38880	35235	32805	31590	30860	30375	30130			
				1000	kg lbs	34990	31105	28190	26245	25270	24690	24300	24105			
21.00-35																

Off-the-Road Tires Used for Industrial Vehicle Applications

- 1) Industrial Vehicles comprise vehicles such as counter-balanced lift trucks, container handlers, straddle carriers, aircraft tow tractors, mobile crushers, log stackers etc., used on hard improved surfaces, smooth floors and runways.
- 2) Use Specifications of **Industrial Service only**.
- 3) Consult a Rim Manufacturer when inflation pressure exceeds 800kPa (116psi).
- 4) For Speeds exceeding 30km/h (18mph), consult a Bridgestone Representative.
- 5) For tire sizes and star ratings other than listed above, consult a Bridgestone Representative.
- 6) For RTG (Rubber Tired Gantry Crane) operation, consult a Bridgestone Representative.

Tire Size	Pattern	Ply Rating	TRA Code or Application	Approximate Inflated Dimensions				OTD	Minimum Dual Spacing	Recommended Rim/Flange Height	Size								
				OD mm inch	OW mm inch	SLR mm inch	SLW mm inch												
				mm	mm inch	mm inch	inch												
Sand Service																			
20"																			
14.00-20	SCP2	18	E7	1206 47.5	370 14.6	TBA* TBA*	TBA* TBA*	10.5	- -	9.00V									

*Due to factory transfer.

Pattern	Appli.	Max. Speed	Tire Load Limits at Various Cold Inflation Pressures (100kPa = 1bar)											Size				
			Tire Load Limits at Various Cold Inflation Pressures (100kPa = 1bar)															
Sand Service																		
20"																		
SCP2	Sand	kPa psi	70 10	100 15	140 20	170 25	210 30	240 35										
		10km/h 5mph	kg lbs	1960 4320	2485 5480	2950 6500	3355 7400	3720 8200	4080 9000									
		50km/h 30mph	kg lbs	1340 2950	1695 3740	2015 4440	2285 5040	2550 5620	2790 6150									
14.00-20																		
65km/h 40mph																		
kg lbs																		
1135 2500																		
1435 3160																		
1695 3740																		
1940 4280																		
2160 4760																		
2360 5200																		

4. Remarks

4.1 Excess Load

Due to the specialized nature of Off-The-Road vehicle usage, loads in excess of those in the appropriate above-listed load tables are often encountered.

These excess loads result from items such as actual vehicle weight exceeding the design weight, varying density of materials, field modifications to the equipment, load transfer, etc.

Only under these conditions, the actual tire load in service may exceed the above load ratings for the tire(*) by an amount not greater than shown in the following table:

	E2, E3, E4*	L** L5/L5S***
Maximum Excess Load	15%	15% 0%
Maximum Excess Pressure	30%	30% +100kPa
Maximum Pressure	825kPa 120psi	825kPa 120psi

(except for underground vehicles)

When excess loads are encountered, cold inflation pressures must be increased to compensate for higher loads.

For each 1% increase in load, the inflation pressure must be increased by 2%.

*except following sizes on the list 9.00-20 10.00-20 11.00-20

**except following sizes on the list

5.70-12	33x12.5-15	12-16.5	15.5/70-18	17.5/65-20
23x8.50-12	12.5/70-16	12.5/65-18	15.5/70-20	16.9-24
27x8.50-15	10-16.5	15.5/60-18	42x17-20	18.4-24

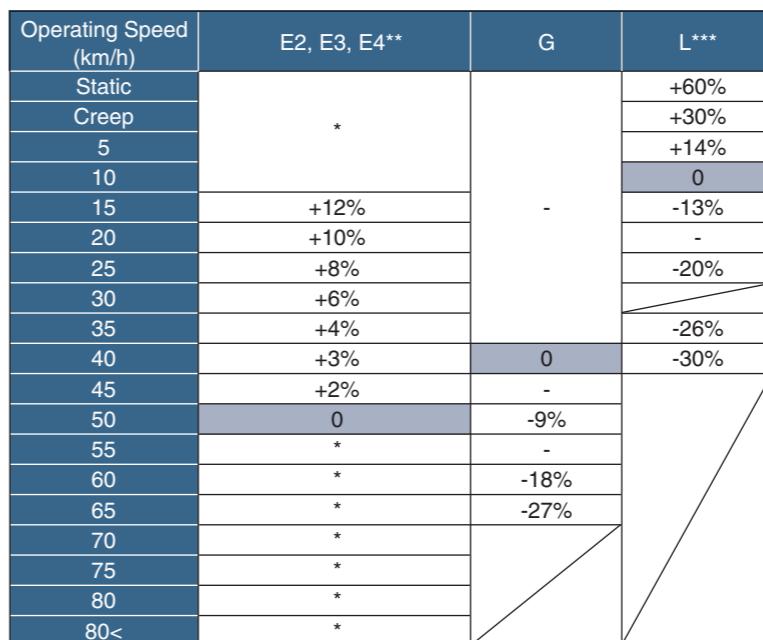
***For L5/L5S tyres following sizes on the list, on front tires for front end loaders, it is permissible to increase inflation pressure up to 100kPa (15psi) above, with no increase in load.

(Maximum inflation pressure should not exceed 825 kPa (120psi).)

17.5-25	26.5-25	35/65-33	45/65-45
20.5-25	29.5-25	40/65-39	50/65-51
23.5-25	29.5-29	41.25/70-39	65/65-57

The maximum excess loads will result in reduced tire performance.

4.2 The Variation in Load Carrying Capacity with Operating Speed



Reference speed for calculating load variance

* Consult a Bridgestone Representative

**except following sizes on the list 9.00-20 10.00-20 11.00-20

***except following sizes on the list

5.70-12	33x12.5-15	12-16.5	15.5/70-18	17.5/65-20
23x8.50-12	12.5/70-16	12.5/65-18	15.5/70-20	16.9-24
27x8.50-15	10-16.5	15.5/60-18	42x17-20	18.4-24

This table doesn't secure to prevent the risk derived from heat buildup.

4.3 Load-and-Carry Operations for Front End Loader Service

Service conditions of a loader is defined as "picking up material and relocating a short distance away, a maximum of 76m (250 feet), one way, with a maximum speed of 10km/h (5mph)". However, a loader can pick up a load and transport such load to another location and return unloaded for a longer distance. This type of service is called **Load-and-Carry** operations. Transportation usually occurs at low speeds, up to 25km/h (15mph), and distances are limited.

The tires when used in Load-and-Carry operations may encounter heat problems especially on the front axle tires. To avoid such problems, Bridgestone recommends the following operating conditions.

For tires over 33" inch rim diameter tires, careful study is required to maximize tire life while considering Ton-Kilometer-Per-Hour (Ton-Mile-Per-Hour) limits. Please consult Bridgestone representative for more information.

If you need to use the tire beyond this recommendation, please consult Bridgestone representative.



For Bias Tires

Tread Class	Inflation Pressure for Front Tires	Load Capacity** 10km/h (5mph)		Maximum Cycle Distance (m)	Allowable Average Work-shift Speed (km/h)		
		Rim Diameter					
		29" and below	33" and above				
L2, L3	Standard inflation pressure + 100kpa (15psi)	90% of STD. load	85% of STD. load	1200	10		
			500	300	3		

** STD.load: Maximum permissible load at standard inflation pressure for respective tire size and star rating.
Please refer to the load - inflation pressure table for loader and dozer service "10km/h (5mph) service".

***Not permissible

The inflation pressure should not exceed 825kPa (120psi).

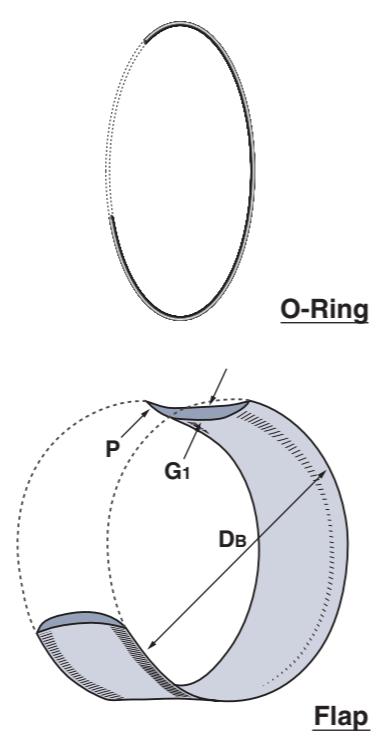
OTHER SPECIFICATION

1. O-Ring Specifications

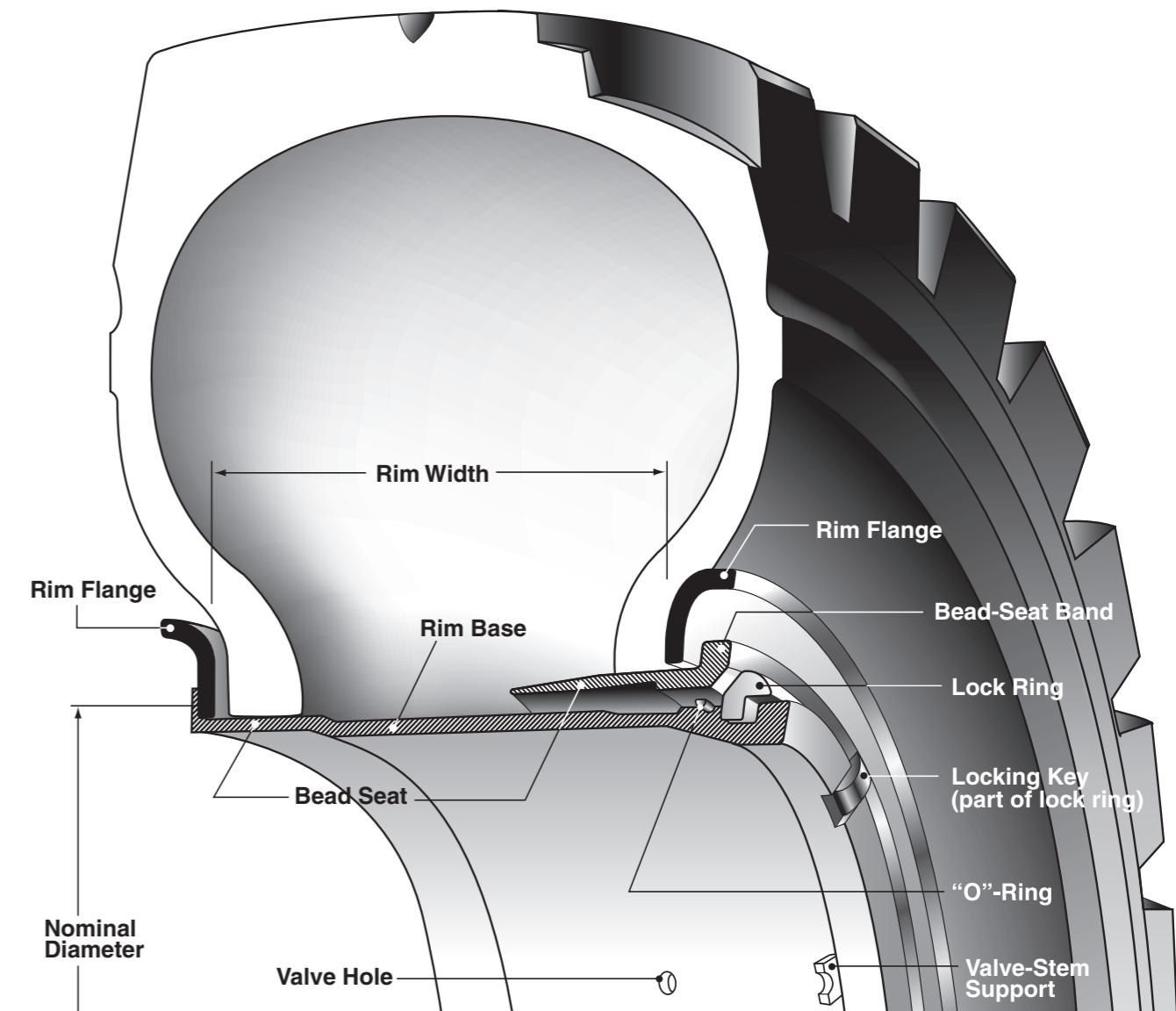
Code No.	Applicable Size		Diameter		Inner Circumference	
	Radial	Bias	mm	inch	mm	inch
P-24A	13.00R24 TG 14.00R24 TG 16.00R24 TG	13.00-24 TG 14.00-24 TG	6.6	0.26	1768	69.61
P-25AX	14.00R25* 15.5R25 17.5R25 20.5R25 29.5R25 385/95R25 445/80R25 445/95R25	- 15.5-25 17.5-25 20.5-25 -	6.8	0.27	1779	70.04
P-25B	14.00R25** 16.00R25 17.5R25 18.00R25 20.5R25 21.00R25 23.5R25 25/65R25 26.5R25 29.5R25 30/65R25(750/65R25) 385/95R25 445/80R25 445/95R25 505/95R25 525/80R25 550/65R25 600/65R25 650/65R25 750/65R25	- 16.00-25 17.5-25 18.00-25 20.5-25 21.00-25 23.5-25 25/65-25 26.5-25 29.5-25 -	9.8	0.39	1779	70.04
P-29B	29.5R29 33.25R29 775/65R29 875/65R29	29.5-29 -	9.8	0.39	2127	83.74

2. Flap Specifications

Flap	πD_B		G ₁		P	
	mm	inch	mm	inch	mm	inch
550/600-15	1175	46.3	4.0	0.16	129	5.1
650/700/750-15	1177	46.3	4.5	0.18	169	6.7
12/65B-15	1196	47.1	7.0	0.28	270	10.6
750/825AR15	1201	47.3	6.0	0.24	184	7.2
750/825-R16	1255	49.4	5.0	0.20	174	6.9
200D1000-R15	1201	47.3	6.5	0.26	205	8.1
700A825-R20	1255	49.4	5.0	0.20	180	7.1
900A111-R20	1201	47.3	6.0	0.24	205	8.1
1100B13/80-R20	1594	62.8	6.5	0.26	218	8.6
1400/14/80R20	1594	62.8	8.5	0.33	240	9.4
1300A1600-20	1618	63.7	8.0	0.31	246	9.7
42x17-20	1576	62.1	9.0	0.35	390	15.4
14/70-20	1587	62.5	9.0	0.35	331	13.0
1300-24	1916	75.4	9.0	0.35	229	9.0
1200A1400-24,25	1942	76.5	9.0	0.35	232	9.1
1100B1300-R24	1922	75.7	7.5	0.30	220	8.7
1300/1400-24,25	1942	76.5	9.0	0.35	232	9.1
1400/1600R24,25	1942	76.5	9.0	0.35	260	10.2
1600-24,25	1916	75.4	9.0	0.35	293	11.5
155A1800-24,25	1926	75.8	6.0	0.24	340	13.4
235-25	1934	76.1	9.0	0.35	560	22.1
265-25	2010	79.1	12.0	0.47	570	22.4
2100R33	2553	100.5	9.0	0.35	413	16.3



3. Rim and Valve



Five-piece fully-tapered bead-seat rim
with air-sealing "O"-ring gasket for earthmover

8.50V × 24

Nominal Diameter of Rim (inches)

Flange Type

Rim Width (inches)

3.1 Rim Designation

Full Tapered Bead Seat Rims (5 pieces)			Full Tapered Bead Seat Rims (3 pieces)			Semi Drop Center Rims (SDC)			Flat Base Rims		
Recommended Rim/ Flange Height	Tire Size		Recommended Rim/ Flange Height	Tire Size		Recommended Rim/ Flange Height	Tire Size		Recommended Rim/ Flange Height	Tire Size	
	Radial	Bias		Radial	Bias		Radial	Bias		Radial	Bias
11.00/1.5	14.5R15	-	10.00/1.5	14.00R25	14.00-25	6.00GS	-	7.50-15	6.50T	8.25R15	-
11.25/2.0	16.00R25	16.00-25		385/95R25(14.00R25)	-		-	7.50-16		-	8.25-20
	445/95R25(16.00R25)	-	12.00/1.3	15.5R25	15.5-25	8.00TG	13.00R24 TG	-	7.00T	9.00R20	9.00-20
13.00/2.5	18.00R25	18.00-25	14.00/1.5	17.5R25	17.5-25	10.00F	-	33x12.5-15	7.50V	10.00R15	-
	505/95R25(18.00R25)	-		445/80R25(17.5R25)	-	10.00VA	-	13.00-24 TG		-	10.00-20
	18.00R33	18.00-33		550/65R25	-		14.00R24 TG	14.00-24 TG	8.00V	11.00R20	11.00-20
15.00/3.0	21.00R25	21.00-25	17.00/2.0	550/65R25	-	16.00R24 TG	16.00-24 TG		8.5	-	12.00-24
	21.00R33	-		20.5R25	-			335/80R20	8.50V	12.00R20	12.00-20
	21.00R35	21.00-35	17.00/1.7	-	20.5-25		365/80R20	-	12.00R24	12.00-24	
17.00/2.0	550/65R25	-		600/65R25	-	11x20	-	14/70-20	9.00	12R22.5	-
	600/65R25	-	17.00/2.0	20.5R25	20.5-25	13x20	405/70R20	-	9.00V	-	14.00-24
17.00/3.5	24.00R35	24.00-35		525/80R25(20.5R25)	-	14.00TG	-	42x17-20	10.00WI	14.00R20	-
	24.00R49	-							10.00W	16.00R20	-
18.00/1.5	24R21	-								14.00R24	14.00-24
19.50/2.5	23.5R25	23.5-25								385/95R24(14.00R24)	-
	600/65R25	-								385/95R25(14.00R25)	-
19.50/4.0	650/65R25	-									
	27.00R49	-									
	31/90R49	-									
20.00/2.0	25/65R25	-									
22.00/3.0	750/65R25(30/65R25)	-									
	26.5R25	26.5-25									
22.00/4.5	30.00R51	-									
24.00/3.0	750/65R25(30/65R25)	-									
24.00/3.5	775/65R29	-									
24.00/5.0	33.00R51	-									
25.00/3.5	29.5R25	29.5-25									
	775/65R29	-									
	29.5R29	29.5-29									
	29.5R35	-									
26.00/5.0	29.5R35	-									
27.00/3.5	36.00R51	-									
	875/65R29	-									
	33.25R29	-									
	33.25R35	-									
27.00/6.0	33.25R35	-									
	37.00R57	-									
	42/90R57	-									
28.00/3.5	42/90R57	-									
	875/65R29	-									
	35/65R33	35/65-33									
29.00/6.0	40.00R57	-									
	46/90R57	-									
31.00/4.0	46/90R57	-									
32.00/4.0	37.25R35	37.25-35									
	-	40/65-39									
32.00/4.5	37.5R39	-									
	40.5/75R39	-									
	-	41.25/70-39									
	45/65R39	-									
32.00/6.5	50/90R57	-									
34.00/6.5	50/90R57	-									
36.00/4.5	45/65R39	-									
	45/65R45	45/65-45									
36.00/5.0	53/80R63	-									
40.00/4.5	50/65R51	50/65-51									
41.00/5.0	59/80R63	-									
44.00/5.0	59/80R63	-									
44.00/6.0	55.5/80R57	-									
47.00/6.0	60/80R57	-									
52.00/6.0	-	65/65-57									

Drop Center Rims (DC, W, DW)		
Recommended Rim/ Flange Height	Tire Size	
	Radial	Bias
5JA	-	23x8.50-12
4.50E	-	5.50-15
5.1/2K	-	9.00-15
5.50F	-	9.00-15
7JA	-	23x8.50-12
	-	27x8.50-15
		9.5/65-15
11LB	-	14.0/65-15
6LB	-	7.50-16
8LB	-	10.5/80-16
10LB	-	12.5/70-16
8.25	-	10-16.5
9.75	-	12-16.5
W13	-	15.5/70-18
	-	15.5/70-20
W14L	-	17.5/65-20
	-	16.9-24
W15L	-	18.4-24
DW20B	-	23.1-26
DW27B	-	30.5L-32

(A)

(B)

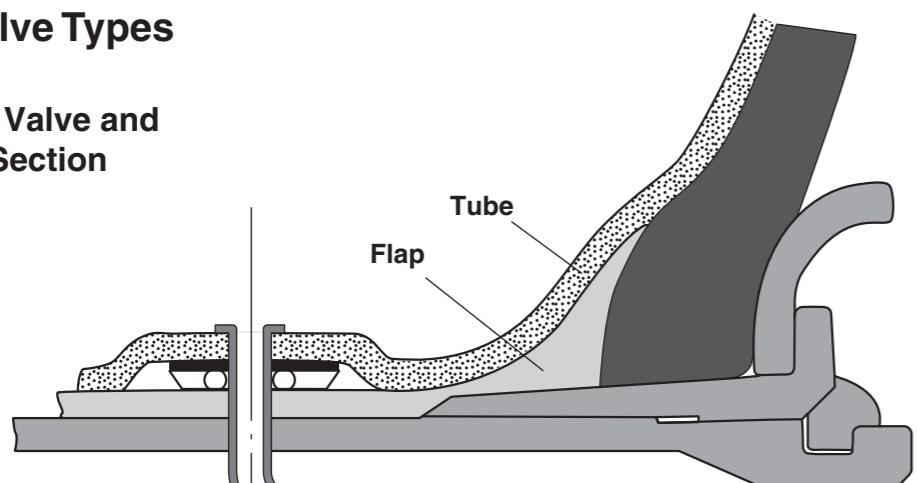
(C)

(D)

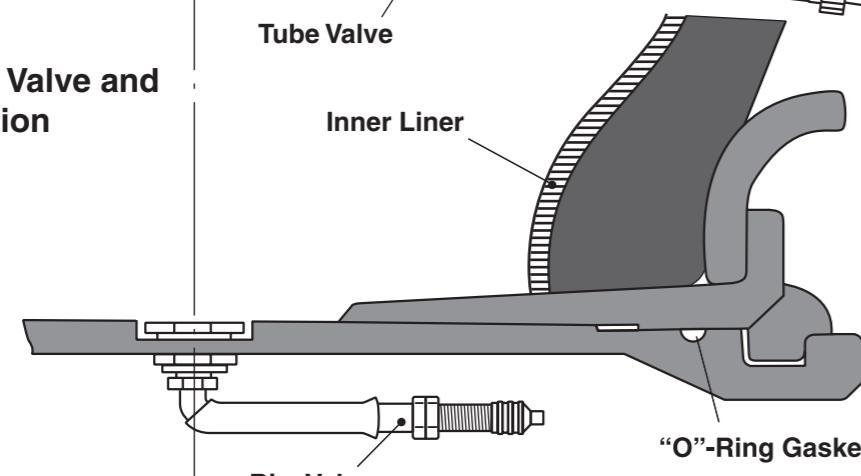
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3.2 Valve Types

Tube Valve and Rim Section



Tubeless Valve and Rim Section



Tube Valve

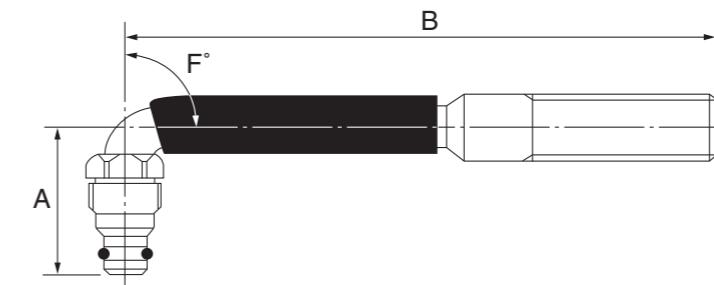


Tubeless Valve



Interchangeable Swivel Valves For Tubeless Or Tube Type Tires

TRJ4000-4 1/2



Large Bore Valves

Valve No.	Dimensions (mm)		
	A	B	F°
TRJ650	27.5	79.5	80°
TRJ4000-4 1/2	31	114.0	90°
TRJ4000-8	31	203.0	90°
TRJ4000-7 1/2	31	190.5	90°

This type of VALVE consists of a combination of the rubber base SP-4000 or SP-2.

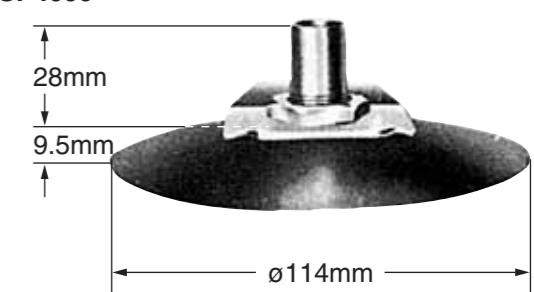
Tubeless Type Spud

SP2



Tube Type Spud

SP4000



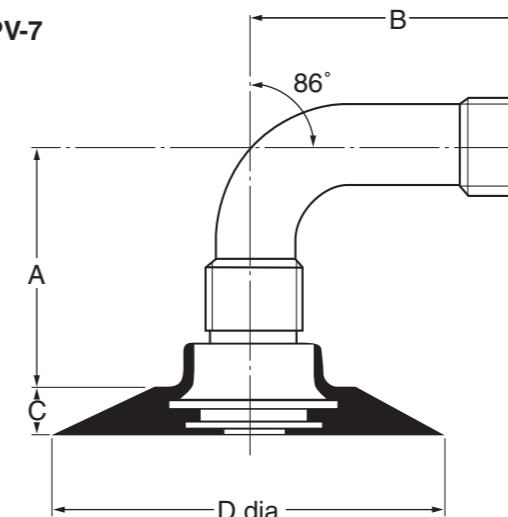
Tube Type Rubber Base Valves

TR218



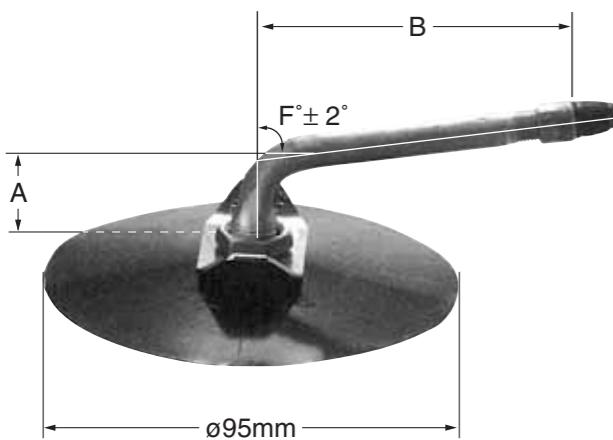
Valve No.	Dimensions (mm)	
	A	B
TR218A	20.6	11.1
TR220A	30.2	20.7

PV-7

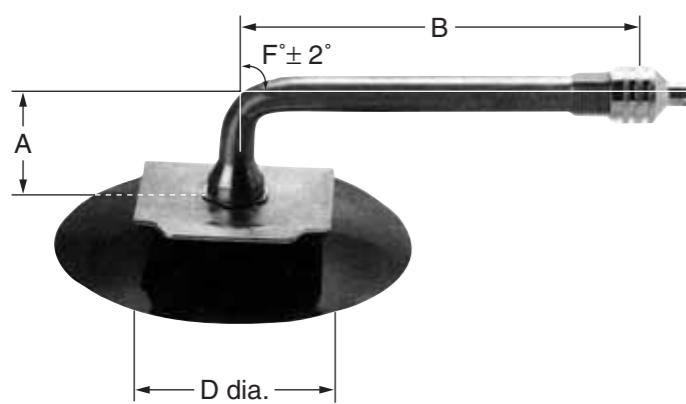


Valve No.	Dimensions (mm)			
	A	B	C	D dia.
PV-7	73	100	7	90

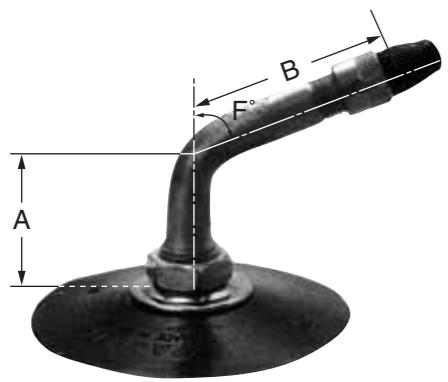
JS75



JSJ1175



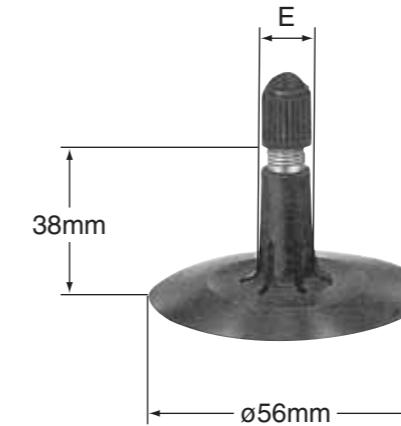
JS2



Valve No.	Dimensions (mm)		
	A	B	F°
JS75	24	70	82°
TR76A	24	86	86°
TR77A	24	105	86°
TR77E	35	94	86°
TR78A	24	127	86°
TR175A	24	115	86°
TR177A	24	95	86°
JS177B	28	91	86°
JS179	36	133	86°
JS179A	29	137	86°
TR179A	24	141	86°
PV38	24	136	80°
PV89	42.8	123	86°
V3-02-3	35.8	44.5	85°
V3-02-15	23.3	145.5	86°

Tube Type Rubber Covered Valves

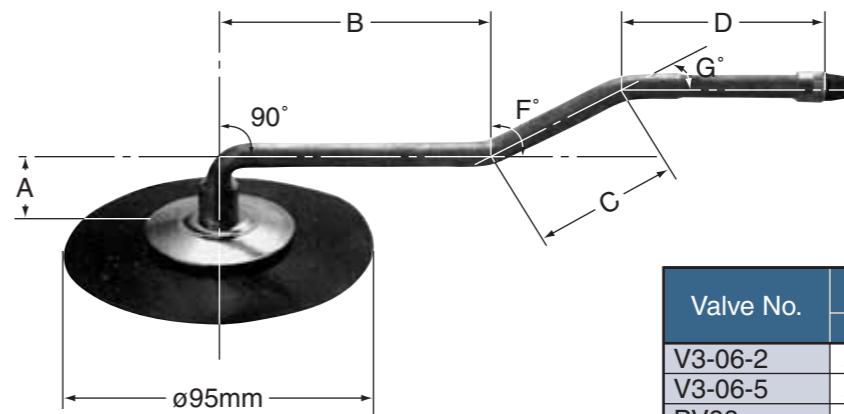
TR13



Valve No.	Dimensions (mm)	
	E	
TR13	11.5	
TR15	16.5	

Tube Type Screw-on Valves

PV88



Valve No.	Dimensions (mm)					
	A	B	C	D	F°	G°
V3-06-2	23.3	44.5	20.8	37.5	55°	55°
V3-06-5	23.3	62.5	25.9	49.0	41°	41°
PV88	26.3	80.5	47.0	54.5	30°	30°
PV118	35.4	130.0	84.0	—	10°	—

TR150CW



Valves, TR150 and TR150CW, are also called Hand Bendable Valves, that is, their stems are made of very flexible material permitting manual bending in all directions and to any angle.

OTHER INFORMATION

1. Unit Conversion Tables

INFLATION PRESSURE

kg/cm ²	lb/in ²	kPa	bar	kg/cm ²	lb/in ²	kPa	bar
0.1	1	10	0.1	2.6	37	250	2.5
0.2	3	20	0.2	2.7	38	260	2.6
0.3	4	30	0.3	2.8	40	270	2.7
0.4	6	40	0.4	2.9	41	280	2.8
0.5	7	50	0.5	3.0	43	290	2.9
0.6	9	60	0.6	3.1	44	300	3.0
0.7	10	70	0.7	3.2	45	310	3.1
0.8	11	80	0.8	3.3	47	320	3.2
0.9	13	90	0.9	3.4	48	330	3.3
1.0	14	100	1.0	3.5	50	340	3.4
1.1	16	110	1.1	3.6	51	350	3.5
1.2	17	120	1.2	3.7	53	360	3.6
1.3	18	130	1.3	3.8	54	370	3.7
1.4	20	140	1.4	3.9	55	380	3.8
1.5	21	150	1.5	4.0	57	390	3.9
1.6	23	160	1.6	4.1	58	400	4.0
1.7	24	170	1.7	4.2	60	410	4.1
1.8	26	180	1.8	4.3	61	420	4.2
1.9	27	190	1.9	4.4	62	430	4.3
2.0	28	200	2.0	4.5	64	440	4.4
2.1	30	210	2.1	4.6	65	450	4.5
2.2	31	220	2.2	4.7	67	460	4.6
2.3	33	230	2.3	4.8	68	470	4.7
2.4	34	240	2.4	4.9	70	480	4.8
2.5	36	250	2.5	5.0	71	490	4.9

WEIGHT

(FROM POUND TO KILOGRAM)

lb	kg	lb	kg	lb	kg	lb	kg
1	0.5	260	117.9	1200	544.3	5000	2268.0
10	4.5	280	120.0	1300	589.7	5200	2358.7
20	9.1	300	136.1	1400	635.0	5400	2449.4
30	13.6	320	145.2	1500	680.4	5600	2540.2
40	18.1	340	154.2	1600	725.8	5800	2630.9
50	22.7	360	163.3	1700	771.1	6000	2721.6
60	27.2	380	172.4	1800	816.5	7000	3175.2
70	31.8	400	181.4	1900	861.8	8000	3628.8
80	36.3	420	190.5	2000	907.2	9000	4082.4
90	40.8	440	199.6	2200	997.9	10000	4536.0
100	45.4	460	208.7	2400	1088.6	11000	4989.6
110	49.9	480	217.7	2600	1179.4	12000	5443.2
120	54.4	500	226.8	2800	1270.1	13000	5896.8
130	59.0	520	235.9	3000	1360.8	14000	6350.4
140	63.5	540	244.9	3200	1451.5	15000	6804.0
150	68.0	560	254.0	3400	1542.2	16000	7257.6
160	72.6	580	263.1	3600	1633.0	17000	7711.2
170	77.1	600	272.2	3800	1723.7	18000	8164.8
180	81.6	700	317.5	4000	1814.4	19000	8618.4
190	86.2	800	362.9	4200	1905.1	20000	9072.0
200	90.7	900	408.2	4400	1995.8		
220	99.8	1000	453.6	4600	2086.6		
240	108.9	1100	499.0	4800	2177.3		

TEMPERATURE

(CENTIGRADE/FAHRENHEIT)

°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
-19	-2.2	+11	+51.8	+41	+105.8	+71	+159.8	+101	+213.8	+131	+267.8
18	0.4	12	53.6	42	107.6	72	161.6	102	215.6	132	269.6
17	+1.4	13	55.4	43	109.4	73	163.4	103	217.4	133	271.4
16	3.2	14	57.2	44	111.2	74	165.2	104	219.2	134	273.2
15	5.0	15	59.0	45	113.0	75	167.0	105	221.0	135	275.0
14	6.8	16	60.8	46	114.8	76	168.8	106	222.8	136	276.8
13	8.6	17	62.6	47	116.6	77	170.6	107	224.6	137	278.6
12	10.4	18	64.4	48	118.4	78	172.4	108	226.4	138	280.4
11	12.2	19	66.2	49	120.2	79	174.2	109	228.2	139	282.2
10	14.0	20	68.0	50	122.0	80	176.0	110	230.0	140	284.0
9	15.8	21	69.8	51	123.8	81	177.8	111	231.8	141	285.8
8	17.6	22	71.6	52	125.6	82	179.6	112	233.6	142	287.6
7	19.4	23	73.4	53	127.4	83	181.4	113	235.4	143	289.4
6	21.2	24	75.2	54	129.2	84	183.2	114	237.2	144	291.2
5	23.0	25	77.0	55	131.0	85	185.0	115	239.0	145	293.0
4	24.8	26	78.8	56	132.8	86	186.8	116	240.8	146	294.8
3	26.6	27	80.6	57	134.6	87	188.6	117	242.6	147	296.6
2	28.4	28	82.4	58	136.4	88	190.4	118	244.4	148	298.4
1	30.2	29	84.2	59	138.2	89	192.2	119	246.2	149	300.2
0	32.0	30	86.0	60	140.0	90	194.0	120	248.0	150	302.0
+1	33.8	31	87.8	61	141.8	91	195.8	121	249.8	160	320.0
2	35.6	32	89.6	62	143.6	92	197.6	122	251.6	170	338.0
3	37.4	33	91.4	63	145.4	93	199.4	123	253.4	180	356.0
4	39.2	34	93.2	64	147.2	94	201.2	124	255.2	190	374.0
5	41.0	35	95.0	65	149.0	95	203.0	125	257.0	200	392.0

kg/cm ²	lb/in ²	kPa</th
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2. Specific Weight (Approximately)

LENGTH

	m.meter	c.meter	meter	k.meter	inch	foot	yard	mile
m.meter	1	0.10000	0.00100	-	0.03937	0.00328	0.00109	-
c.meter	10.0000	1	0.01000	0.00001	0.39371	0.03281	0.01094	-
meter	1000.00	100.00	1	0.00100	39.3707	3.28089	1.09363	0.00062
k.meter	-	100000	1000.00	1	39370.7	3280.89	1093.63	0.62138
inch	25.3995	2.53995	0.02540	0.00003	1	0.08333	0.02778	0.00002
foot	304.794	30.4794	0.30479	0.00030	12.0000	1	0.33333	0.00019
yard	914.383	91.4383	0.91438	0.00091	36.0000	3.00000	1	0.00057
mile	-	160931	1609.31	1.60931	63360.0	5280.00	1760.00	1

AREA

	meter ²	are	hectare	k.meter ²	foot ²	yard ²	acre	mile ²
meter ²	1	0.010000	0.000100	0.000001	10.7639	1.19600	0.000247	0.000000
are	100.000	1	0.010000	0.000100	1076.39	119.600	0.024710	0.000039
hectare	10000.0	100.000	1	0.010000	107639.0	11960.0	2.47105	0.003861
k.meter ²	-	10000.0	100.000	1	-	-	247.105	0.386098
foot ²	0.092903	0.000929	0.000009	0.000000	1	0.111111	0.000023	0.000000
yard ²	0.836130	0.008361	0.000084	0.000000	9.00000	1	0.000207	0.000000
acre	4046.87	40.4687	0.404687	0.004047	43560.2	4840.00	1	0.001562
mile ²	-	25900.2	259.002	2.59002	-	-	640.000	1

WEIGHT

	gram	k.gram	ton	s.ton	l.ton	ounce	pound
gram	1	0.00100	-	-	-	0.03527	0.00220
k.gram	1000.00	1	0.00100	0.00110	0.00098	35.2739	2.20462
ton	-	1000.00	1	1.10230	0.98421	35273.9	2204.62
s.ton	907185	907.185	0.90719	1	0.89286	32000.0	2000.00
l.ton	-	1016.04	1.01604	1.12000	1	35840.0	2240.00
ounce	28.3495	0.02835	0.00003	0.00003	0.00003	1	0.06250
pound	453.592	0.45359	0.00045	0.00050	0.00045	16.0000	1

CAPACITY

	cub.meter	liter	cub.inch	cub.foot	cub.yard	U.S.gallon	U.K.gallon
cub.meter	1	1000.00	61027.1	35.3147	1.30802	264.186	220.216
liter	0.00100	1	61.0271	0.03532	0.00131	0.26419	0.22022
cub.inch	0.00002	0.01639	1	0.00058	0.00002	0.00433	0.00361
cub.foot	0.02832	28.3167	1728.00	1	0.03704	7.48051	6.23549
cub.yard	0.76455	764.554	46656.0	27.0000	1	201.974	168.358
U.S.gallon	0.00379	3.78543	231.000	0.13368	0.00495	1	0.83270
U.K.gallon	0.00455	4.54596	277.413	0.16037	0.00594	1.20091	1

FORCE

1 kgf = 9.81 N

POWER (horse power)

1 hp = 550 ft • lbf/s = 745.7 W

1 PS = 75 m • kgf/s = 735.5 W

Material	Pounds/cu.yd	Metric Tons/m ³	Material	Pounds/cu.yd	Metric Tons/m ³
Anthracite	2000	1.2	Iron ore: Magnetite	4700	2.8
Basalt	3400	2.0	Limestone	2500	1.5
Bauxite	2400	1.4	Pyrites	4400	2.6
Clay: dry	2500	1.5	Over-Burden		
wet	2900	1.7	75%rock-25%earth	3400	2.0
Coal	1200	0.7	50%rock-50%earth	2900	1.7
Copper ore	2700	1.6	25%rock-75%earth	2700	1.6
Crushed gypsum	2700	1.6	Sand: dry	2400	1.4
Earth: dry	2500	1.5	wet	3000	1.8
wet	2700	1.6	Sandstone	2500	1.5
Granite	2900	1.7	Snow: dry	170	0.1
Gravel: dry	2900	1.7	wet	840	0.5
wet	3400	2.0	Uranium	2700	1.6

Note: Weight of materials varies with moisture content, grain size, degree of compaction, etc. Test must be made to know exact weight.

MEMO

DATA BOOK

BRIDGESTONE



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