

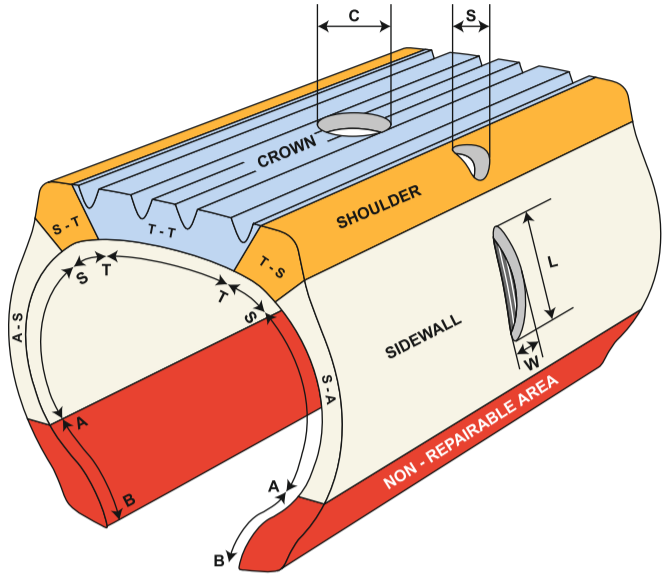


# Radial Repair Unit Selection Chart

## Passenger, Light Truck, Truck and Bus

Document No: AA/EN-GB/20/RSC/01/01/04

August, 2020



Legend	
T-T	CROWN
C	Diameter of injury
T-S / S-T	SHOULDER
S	Diameter of injury
S-A / A-S	SIDEWALL
L	Length of injury
W	Width of injury
A-B / B-A	NON-REPAIRABLE AREA

Repair Restriction		
SECTION WIDTH	NON-REPAIRABLE AREA	SHOULDER
Passenger Tyres	1-1/2" (40 mm)	1" (25 mm)
6.50-7.00 (165-195)	2-1/2" (65 mm)	1-1/2" (40 mm)
7.50-16.00 (190-385)	3" (75 mm)	
17.50-23.50 (425-600)	3-1/2" (90 mm)	

The above dimension are only guidelines.



CROWN Injury Diameter	SHOULDER Injury Diameter	SIDEWALL Injury		Speed Rating ≤U
		Width	Length	
1/4" (6 mm)	1/4" (6 mm)			R 110
				R 114
		1/4" (6 mm)	1/2" (13 mm)	R 110
		1/4" (6 mm)	2" (50 mm)	R 112
3/8" (10 mm)	3/8" (10 mm)			R 110 H
				R 114
		3/8" (10 mm)	1-1/2" (40 mm)	R 112 H
		3/8" (10 mm)	2" (50 mm)	R 114
1/2" (13 mm)	1/2" (13 mm)			R 112 H
				R 114
		1/2" (13 mm)	1-1/2" (40 mm)	R 114
		1/2" (13 mm)	2" (50 mm)	R 114
3/4" (20 mm)	3/4" (20 mm)			R 112 H
				R 114
		3/4" (20 mm)	1-1/2" (40 mm)	R 112 H
		3/4" (20 mm)	2" (50 mm)	R 114
1" (25 mm)	1" (25 mm)			R 114
				R 114
		1" (25 mm)	1-1/2" (40 mm)	R 114
		1" (25 mm)	2" (50 mm)	R 114

**Note for Passenger Tyres:** Tyres with speed rating of H, V, W, Y or Z are repairable in the crown area (T-T) but should not exceed 1/4" (6 mm) or one injury per tyre in order to maintain their designated speed rating. Run flat tyres maintain the same limitation as the performance tyre except multiple nail hole repairs may be performed unless it is in the same radial cord or where repair units overlap. Performance tyres are repairable beyond the shoulder area; but the speed rating would be reduced below H rating.

Repair Unit			Repair Unit Size		Ply Rating
SC Series	CB Series	HC Series	mm	inches	
SR 110	CBR 110	*HR 110	45 x 75	1-3/4 x 3	1
SR 110 H	CBR 110 H	*HR 110 H	65 x 80	2-1/2 x 3-1/4	1
SR 112	CBR 112	*HR 112	60 x 110	2-3/8 x 4-3/8	1
SR 112 H	CBR 112 H	*HR 112 H	70 x 115	2-3/4 x 4-5/8	1
SR 114	CBR 114	*HR 114	75 x 145	3 x 5-3/4	1
SR 120	CBR 120	*HR 120	75 x 125	3 x 5	2
SR 122	CBR 122	*HR 122	75 x 165	3 x 6-1/2	2
SR 122 S	-	-	75 x 165	3 x 6-1/2	1
SR 124	CBR 124	*HR 124	75 x 215	3 x 8-1/2	2
SR 124 S	-	-	75 x 215	3 x 8-1/2	1
SR 126	CBR 126	*HR 126	75 x 250	3 x 10	3
SR 126 S	-	-	75 x 250	3 x 10	1
SR 128	CBR 128	*HR 128	75 x 325	3 x 12-3/4	3
SR 128 S	-	-	75 x 325	3 x 12-3/4	1
SR 133	CBR 133	*HR 133	100 x 125	4 x 5	3
SR 135	CBR 135	*HR 135	125 x 150	5 x 6	4
SR 137	CBR 137	*HR 137	125 x 170	5 x 6-3/4	4
SR 140	CBR 140	*HR 140	100 x 200	4 x 8	3
SR 142	CBR 142	*HR 142	125 x 250	5 x 10	3
SR 144	CBR 144	*HR 144	125 x 330	5 x 13	4
SR 146	CBR 146	*HR 146	140 x 405	5-1/2 x 16	4

CROWN Injury Diameter	SHOULDER Injury Diameter	SIDEWALL Injury		LIGHT TRUCK Tyre Size Load Range ≤E	TRUCK & BUS Tyre Size			
		Width	Length		6.50 - 12.50	7.50 - 10.00	11.00 - 14.00	315/80 495/65 425/50 - 495/45
1/8" (3 mm)	1/8" (3 mm)			R 110	R 110 H	R 110 H	R 110 H	
		1/8" (3 mm)	1/8" (3 mm)	R 122 S	R 124 S	R 124 S	R 126 S	
1/4" (6 mm)	1/4" (6 mm)			R 110	R 110 H	R 110 H	R 110 H	
		1/4" (6 mm)	1/4" (6 mm)	R 122 S	R 124 S	R 124 S	R 126 S	
5/16" (8 mm)	5/16" (8 mm)			R 112	R 112 H	R 112 H	R 112 H	
		5/16" (8 mm)	5/16" (8 mm)	R 122 S	R 124 S	R 124 S	R 126 S	
3/8" (10 mm)	3/8" (10 mm)			R 120	R 120	R 120	R 120	
		1 Cable	1-1/2" (40 mm)	R 120	R 120	R 120	R 120	
		1 Cable	3-1/8" (80 mm)	R 122	R 122	R 124	R 124	
		1 Cable	4-3/4" (120 mm)		R 124	R 124	R 126	
		1 Cable	6" (150 mm)		R 126	R 126	R 128	
		2 Cable	3/4" (20 mm)	R 120	R 120	R 124	R 124	
		2 Cable	1-1/2" (40 mm)	R 120	R 122	R 124	R 124	
		2 Cable	2-3/8" (60 mm)	R 122	R 124	R 126	R 126	
		2 Cable	5-1/8" (130 mm)		R 126	R 126	R 128	
		3/8" (10 mm)	1-1/2" (40 mm)	R 120	R 126	R 140	R 140	
1/2" (13 mm)	1/2" (13 mm)			R 140	R 140	R 140	R 140	
		1/2" (13 mm)	1-1/2" (40 mm)	R 122	R 140	R 140	R 140	
		1/2" (13 mm)	2-3/4" (70 mm)	R 122	R 140	R 142	R 142	
		1/2" (13 mm)	3-3/4" (95 mm)	R 140	R 142	R 142	R 142	
3/4" (20 mm)	3/4" (20 mm)				R 144	R 144	R 144	
		3/4" (20 mm)	5-1/8" (130 mm)		R 133	R 135	R 135	
		3/4" (20 mm)	1" (25 mm)	R 140	R 142	R 142	R 142	
		3/4" (20 mm)	2-1/2" (65 mm)	R 124	R 142	R 142	R 142	
1" (25 mm)	1" (25 mm)				R 142	R 144	R 144	
		3/4" (20 mm)	4-3/8" (110 mm)		R 142	R 144	R 144	
		3/4" (20 mm)	5-1/8" (130 mm)		R 144	R 144	R 144	
		1" (25 mm)	2" (50 mm)	R 140	R 142	R 144	R 144	
1-1/4" (32 mm)	1-1/4" (32 mm)				R 144	R 144	R 144	
		1" (25 mm)	3-1/8" (80 mm)		R 142	R 144	R 144	
		1" (25 mm)	4" (100 mm)		R 144	R 144	R 144	
		1-1/4" (30 mm)	2" (50 mm)		R 142	R 144	R 144	
1-1/4" (30 mm)	1-1/4" (30 mm)				R 144	R 144	R 144	
		1-1/4" (30 mm)	3-1/8" (80 mm)		R 144	R 144	R 144	
		1-1/4" (30 mm)	4" (100 mm)		R 146	R 146	R 146	

**Note:** Repair unit mentioned for crown are limited to (T - T) crown area only. All other repair units mentioned for special repair can be used for crown or sidewall injuries. For (S - T) shoulder area up to 3/8" (10mm) injury use RS - Radial Shoulder repair only. Repair on performance tyre should not exceed or supersede limitation of the new tyre manufacturer's recommendations. All injuries should be filled and supported with the appropriate repair unit. Load, speed and highway application condition may affect section repairs. This repair selection chart is to be used as a guide. \*Sizes under development.



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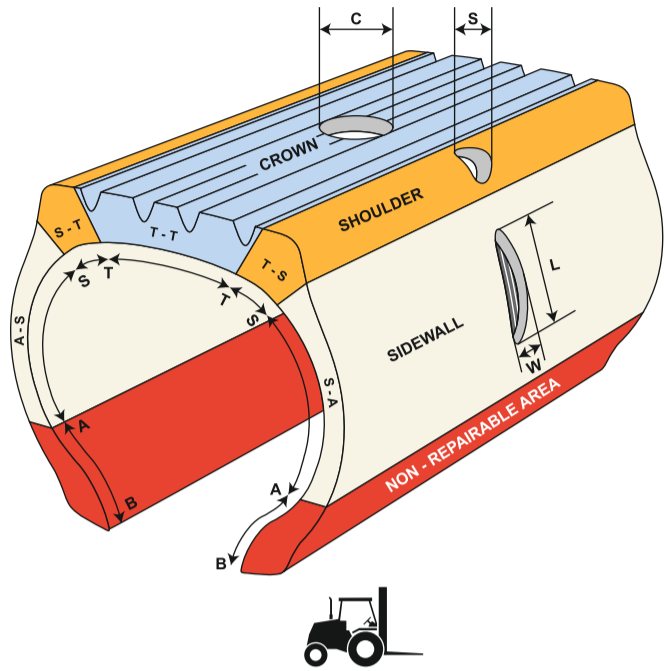


# Radial Repair Unit Selection Chart

## Agricultural, Industrial and Skidder

Document No: AA/EN-GB/20/RSC/01/02/04

August, 2020



Legend	
T-T	CROWN
C	Diameter of injury
T-S / S-T	SHOULDER
S	Diameter of injury
S-A / A-S	SIDEWALL
L	Length of injury
W	Width of injury
A-B / B-A	NON-REPAIRABLE AREA

Repair Restriction		
SECTION WIDTH	NON-REPAIRABLE AREA	
5.00 - 10.00 (125-255)	3-1/2" (80 mm)	
13.6 -16.9 (345-430)	4" (100 mm)	
18.4 - 20.8 (465-530)	4 1/2" (115 mm)	
23.1 & Larger (585 & Larger)	5-1/2" (140 mm)	

The above dimension are only guidelines.



SHOULDER Injury Diameter	SIDEWALL Injury		INDUSTRIAL Tyre Size	
	Width	Length	5.00 - 7.00 125/175	7.50 - 10.00 190/255
1/4" (6 mm)			R 110 H	R 110 H
1/4" (6 mm)			R 122	R 122
	1/4" (6 mm)	1/4" (6 mm)	R 112	R 120
3/8" (10 mm)			R 120	R 122
	3/8" (10 mm)			R 126
	3/8" (10 mm)	3/8" (10 mm)	R 120	R 120
	3/8" (10 mm)	1-1/4" (30 mm)	R 122	R 120
	3/8" (10 mm)	2" (50 mm)	R 122	R 122
5/8" (15 mm)	3/8" (10 mm)	2-3/4" (70 mm)		R 140
	5/8" (15 mm)		R 122	R 140
	5/8" (15 mm)	3/8" (10 mm)	R 122	R 122
	5/8" (15 mm)	1-1/4" (30 mm)	R 122	R 140
5/8" (15 mm)	5/8" (15 mm)	2" (50 mm)		R 140
	5/8" (15 mm)	2-3/4" (70 mm)		R 142
	1" (25 mm)		R 142	
1" (25 mm)	1" (25 mm)	2" (50 mm)		R 142

CROWN Injury Diameter	SHOULDER Injury Diameter	SIDEWALL Injury		AGRICULTURAL & SKIDDER Tyre Size		
		Width	Length	8 - 11 8.3 - 12.4 180/270	12 - 15 13.6 - 23.5 440/65 - 600/65	
3/8" (10 mm)				R 112	R 112	
	3/8" (10 mm)			R 120	R 120	
		1/4" (6 mm)	1/4" (6 mm)	R 112	R 112	
		3/8" (10 mm)	3/8" (10 mm)	R 112	R 112	
3/8" (10 mm)		1 1/2" (40 mm)	R 120	R 120		
	3/8" (10 mm)	5" (125 mm)	R 126	R 126		
	3/4" (20 mm)		R 120	R 120		
3/4" (20 mm)	3/4" (20 mm)		R 122 S	R 180		
	3/4" (20 mm)	3/4" (20 mm)	R 120	R 120		
	3/4" (20 mm)	3" (75 mm)	R 122	R 180		
1 1/2" (40 mm)			R 180	R 182		
	1 1/2" (40 mm)		R 180	R 182		
1 1/2" (40 mm)	1 1/2" (40 mm)	4" (100 mm)	R 180	R 182		
	2 3/4" (70 mm)			R 182		
2 3/4" (70 mm)	2" (50 mm)		R 182	R 184		
	2 3/4" (70 mm)			R 186		
	2" (50 mm)	3/4" (80 mm)	R 180	R 182		
	2 1/2" (65 mm)	3" (75 mm)	R 180	R 182		
	2 1/2" (65 mm)	4" (100 mm)		R 182		
2 3/4" (70 mm)	2 3/4" (70 mm)	2 3/4" (70 mm)	R 180	R 182		
	3 1/2" (90 mm)			R 184		
	3 1/4" (80 mm)	3 1/4" (80 mm)		R 182		
3 1/4" (80 mm)		5 1/4" (130 mm)		R 184		
	3 1/2" (90 mm)	4 1/2" (115 mm)		R 184		
	4" (100 mm)			R 184		
4" (100 mm)	4" (100 mm)	4" (100 mm)		R 184		
	4" (100 mm)	6 1/2" (165 mm)		R 186		
	5" (125 mm)			R 186		
5" (125 mm)	5" (125 mm)	5" (125 mm)		R 186		

Repair Unit		Repair Unit Size		Ply Rating
CB Series	HC Series	mm	inches	
CBR 110 H	* HR 110 H	65 x 80	2-1/2 x 3-1/4	1
CBR 112	* HR 112	60 x 110	2-3/8 x 4-3/8	1
CBR 120	* HR 120	75 x 125	3 x 5	2
CBR 122	* HR 122	75 x 165	3 x 6-1/2	2
-	-	75 x 165	3 x 6-1/2	1
CBR 126	* HR 126	75 x 250	3 x 10	3
CBR 140	* HR 140	100 x 200	4 x 8	3
CBR 142	* HR 142	125 x 250	5 x 10	3
CBR 180	* HR 180	150 x 195	6 x 7-3/4	2
CBR 182	* HR 182	190 x 250	7-1/2 x 10	3
CBR 184	* HR 184	215 x 290	8-1/2 x 11-1/2	3
CBR 186	* HR 186	245 x 340	9-3/4 x 13-1/2	3

**Note:** Repair unit mentioned for crown are limited to (T - T) crown area only. All other repair units mentioned for special repair can be used for crown or sidewall injuries. For (S - T) shoulder area up to 3/8" (10mm) injury use RS - Radial Shoulder repair only. Repair on performance tyre should not exceed or supersede limitation of the new tyre manufacturer's recommendations. All injuries should be filled and supported with the appropriate repair unit. Load, speed and highway application condition may affect section repairs. This repair selection chart is to be used as a guide. \*Sizes under development.



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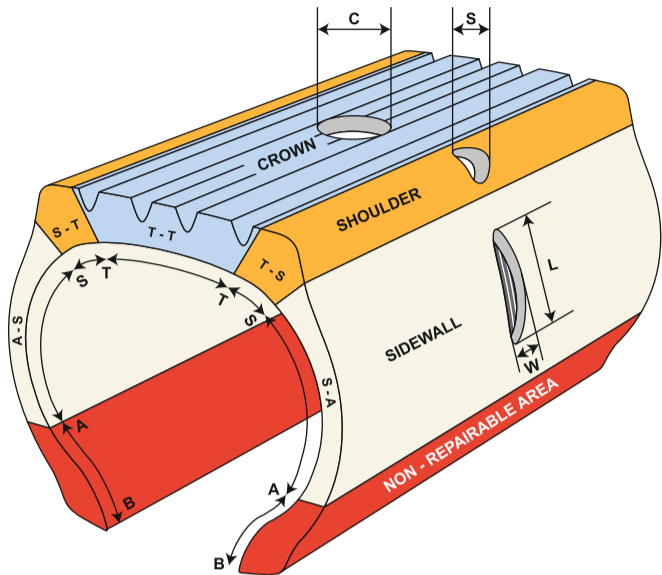


# Radial Repair Unit Selection Chart

## Earthmover, Grader, Loader and Dozer

Document No: AA/EN-GB/20/RSC/01/03/04

August, 2020



Legend	
T-T	CROWN
C	Diameter of injury
T-S / S-T	SHOULDER
S	Diameter of injury
S-A / A-S	SIDEWALL
L	Length of injury
W	Width of injury
A-B / B-A	NON-REPAIRABLE AREA

Repair Restriction		
SECTION WIDTH	NON-REPAIRABLE AREA	SHOULDER
14.00 - 16.00 (15.5 - 17.5)	3" (75 mm)	1-1/2" (40 mm)
18.00 - 24.00 (20.5 - 29.5)	5" (125 mm)	2-3/4" (70 mm)
27.00 - 33.00 (33.25 - 37.5)	6" (150 mm)	
40/65 - 50/65 (40.5)	6-3/4" (170 mm)	
36.00	8" (200 mm)	3-1/2" (90 mm)
37.00 - 40.00 (50.5 & Larger)	10" (255 mm)	

The above dimension are only guidelines.



Inner Liner removed on these sizes

### TO DETERMINE CROWN INJURY REPAIR AREA

#### Radial / OTR Crown Dimensions:

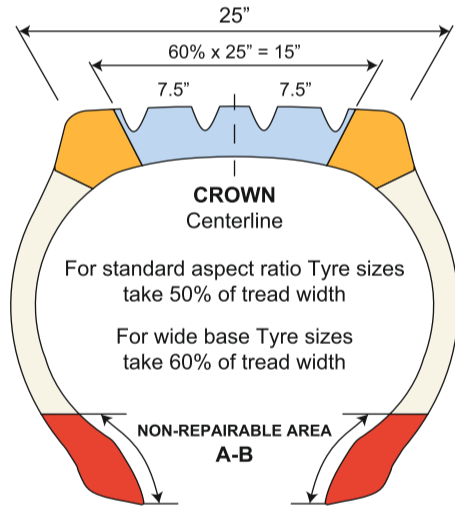
Crown is defined as 50% of tread face for standard aspect ratio Tyre sizes and 60% of tread face for wide base sizes. All measurements are taken on the outside surface of the Tyre.

#### Standard Aspect Tyre Size Example (24.00 R35):

If the tread face measures 24" (610 mm) wide, wherein 50% of the crown area is 12" (300 mm) or 6" (150 mm) on each side of the tread center line. The injury must be located in this area to be considered as a crown area repair.

#### Wide Base Tyre Size Example (29.5 R29):

If the tread face measures 25" (635 mm) wide, wherein 60% of the crown area is 15" (380 mm) or 7.5" (190 mm) on each side of the tread center line. The injury must be located in this area to be considered as a crown area repair.



Repair Unit			Repair Unit Size		Ply Rating
SC Series	CB Series	HC Series	mm	inches	
SR 142	CBR 142	*HR 142	125 x 250	5 x 10	3
SR 144	CBR 144	*HR 144	125 x 330	5 x 13	4
*SR 145	-	-	230 x 195	9-1/8 x 7-3/4	-
SR 146	CBR 146	*HR 146	405 x 140	16 x 5-1/2	4
SR 150	CBR 150	*HR 150	190 x 500	7-1/2 x 19-3/4	5
SR 152	CBR 152	*HR 152	250 x 570	10 x 22-1/2	5
*SR 155	-	-	330 x 260	13 x 10-1/4	-
*SR 156	-	-	265 x 735	10-1/2 x 29	-
SR 160	CBR 160	*HR 160	265 x 860	10-1/2 x 34	7
*SR 162	-	-	325 x 1030	12-3/4 x 40-1/2	-
*SR 165	-	-	420 x 330	16-1/2 x 13	-
SR 172	CBR 172	*HR 172	345 x 760	13-3/4 x 30	7
*SR 175	-	-	535 x 450	20-3/4 x 17-3/4	-
*SR 185	-	-	710 x 560	28 x 22	-

**Note:** Repair unit mentioned for crown are limited to (T - T) crown area only. All other repair units mentioned for special repair can be used for crown or sidewall injuries. For (S - T) shoulder area up to 3/8" (10 mm) injury use RS - Radial Shoulder repair only. Repair on performance tyre should not exceed or supersede limitation of the new tyre manufacturer's recommendations. All injuries should be filled and supported with the appropriate repair unit. Load, speed and highway application condition may affect section repairs. This repair selection chart is to be used as a guide. \*Sizes under development.

CROWN Injury Diameter	SHOULDER Injury Diameter	SIDEWALL Injury		OTR Tyre Size			
		Width	Length	14.00 - 16.00 15.5 - 20.5 20/65 - 30/65	18.00 - 21.00 23.5 - 26.5 35/65	24.00 - 30.00 29.5 - 37.5 40/65 - 45/65	33.00 - 40.00 48/95 - 59/80 50/65 - 65/65
3/8" (10 mm)		3/8" (10 mm)	3" (75 mm)	R 142	R 142	R 142	R 144
			4-3/8" (110 mm)	R 142	R 142	R 144	R 144
				R 145	R 145	R 145	R 145
3/4" (20 mm)	3/4" (20 mm)	2" (50 mm)	R 146	R 146	R 150	R 152	
		5-1/2" (140 mm)	R 146	R 146	R 146	R 150	
		8" (200 mm)	R 146	R 150	R 150	R 150	
1" (25 mm)	1" (25 mm)	5" (125 mm)	R 146	R 150	R 152	R 152	
		8" (200 mm)	R 150	R 150	R 150	R 152	
		10" (250 mm)	R 146	R 150	R 150	R 150	
		10" (250 mm)	R 150	R 150	R 152	R 156	
1-1/2" (40 mm)	1-1/2" (40 mm)	3-1/2" (90 mm)	R 146	R 150	R 152	R 156	
		10" (250 mm)	R 150	R 150	R 152	R 156	
		14" (350 mm)	R 156	R 156	R 156	R 160	
		16" (400 mm)	R 156	R 160	R 160	R 160	
		6-1/2" (165 mm)	R 150	R 150	R 152	R 152	
		10" (250 mm)	R 152	R 152	R 152	R 156	
		14" (350 mm)	R 156	R 156	R 160	R 160	
		14" (350 mm)	R 156	R 160	R 160	R 160	
		16" (400 mm)	R 160	R 160	R 160	R 160	
		16" (400 mm)	R 160	R 160	R 160	R 160	
2" (50 mm)	2" (50 mm)	7" (175 mm)	R 150	R 152	R 156	R 156	
		10" (250 mm)	R 152	R 152	R 152	R 156	
		14" (350 mm)	R 156	R 156	R 160	R 160	
		16" (400 mm)	R 160	R 160	R 160	R 160	
		19" (475 mm)	R 160	R 160	R 160	R 160	
2-3/4" (70 mm)	2-3/4" (70 mm)	8" (200 mm)	R 152	R 152	R 152	R 156	
		10" (250 mm)	R 156	R 156	R 156	R 160	
		13 1/2" (340 mm)	R 156	R 156	R 160	R 160	
		7" (175 mm)	R 152	R 152	R 156	R 156	
		8" (200 mm)	R 152	R 152	R 156	R 172	
		10" (250 mm)	R 156	R 156	R 156	R 172	
		12 1/2" (315 mm)	R 156	R 160	R 160	R 160	
					R 175	R 175	
		5-1/2" (140 mm)	R 152	R 152	R 152	R 156	
		7-1/2" (190 mm)	R 156	R 156	R 156	R 172	
4" (100 mm)	4" (100 mm)	10-1/2" (265 mm)	R 152	R 152	R 162	R 162	
		5" (125 mm)	R 152	R 152	R 156	R 156	
		7" (175 mm)	R 156	R 156	R 172	R 172	
		10" (250 mm)	R 162	R 162	R 162	R 162	
		4-1/2" (115 mm)	R 152	R 152	R 156	R 156	
		6" (150 mm)	R 156	R 156	R 160	R 160	
		9" (225 mm)	R 162	R 162	R 162	R 162	
					R 185	R 185	
		4" (100 mm)	R 172	R 172	R 172	R 172	
		5" (125 mm)	R 160	R 160	R 160	R 160	
5" (125 mm)	5" (125 mm)	7" (175 mm)	R 160	R 160	R 160	R 160	
		3" (75 mm)	R 172	R 172	R 172	R 172	
		5-1/2" (140 mm)	R 172	R 172	R 172	R 172	
6-1/2" (165 mm)	6-1/2" (165 mm)	5" (125 mm)	R 185	R 185	R 185	R 185	
			R 172	R 172	R 172	R 172	



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