

TIRE REPAIR APPLICATION
CHART
Agricultural



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MA PATCHES - BIAS PLY AGRICULTURAL TIRES



BIAS PLY AGRICULTURAL TIRES																						
THROUGH THE TIRE PENETRATION												DAMAGES THAT DO NOT GO THROUGH THE TIRE										
Number of plies	D (máx.) inches											D (máx.) inches										
	1/8"	3/8"	1"	2"	3"	4"	5"	6"	7"	8"	10"	1/8"	3/8"	1"	2"	3"	4"	5"	6"	7"	8"	10"
4_8	98	98	99	100	100	101	102	103	104	-	-	98	98	98	99	99	100	101	102	103	-	-
10_12	98	98	99	100	101	102	103	104	105	106	107	98	98	98	99	100	101	102	103	104	105	106
14_16	98	99	100	101	102	103	104	105	106	107	-	98	98	99	100	101	102	103	104	105	106	107
18_20	99	100	101	102	103	104	105	106	107	-	-	98	99	100	101	102	103	104	105	106	107	-
22_24	100	101	102	103	104	105	106	107	-	-	-	99	100	101	102	103	104	105	106	107	-	-
26_28	101	102	103	104	105	106	107	-	-	-	-	100	101	102	103	104	105	106	107	-	-	-

Piercing damages are when 50% or more of the main structure is affected (excluding protective plies). Non-piercing damages are when 25% to 50% of the main structure is affected (excluding protective plies).

RAC - AGRICULTURAL RADIAL PATCHES



RADIAL TIRES					
		C x R (inches)	RAC		
		13/16" X 13/16"	20		
		13/16" X 2 3/16"	24		
		2" X 2 3/4"	80		
		2 3/4" X 2"	80		
		2 3/8" X 4"	82		
		4" X 2 15/16"	82		
		2 3/8" X 4 15/16"	84		
		4" X 3 1/8"	84		
				Ø O (inches)	RAC
3/8"	20				
3/8"	24				
1"	80				
1 3/4"	82				
2 3/16"	84				
				Ø B (inches)	RAC
				1/2"	15
				13/16"	20
				13/16"	24
		1 9/16"	80		
		2 3/8"	82		
		2 15/16"	84		
				C x R (inches)	RAC
				1/2" X 1/2"	15
				13/16" X 1 3/16"	20
13/16" X 1 9/16"	24				
1 9/16" X 2 3/8"	80				
2 3/8" X 2 15/16"	82				
2 15/16" X 3 9/16"	84				
				Ø B (inches)	RAC
				3/8"	20
				3/8"	24
		1"	80		
		1 9/16"	82		
		2 3/4"	84		
		3 3/8"	86		
		4"	87		
				C x R (inches)	RAC
				3/8" X 3/8"	20
3/8" X 13/16"	24				
1" X 1 9/16"	80				
1 9/16" X 2 3/8"	82				
2 3/4" X 3 9/16"	84				
3 3/8" X 4 3/4"	86				
1 9/16" X 6 5/16"	87				

6.5 - 12.4
9 - 11
180/ - 340/

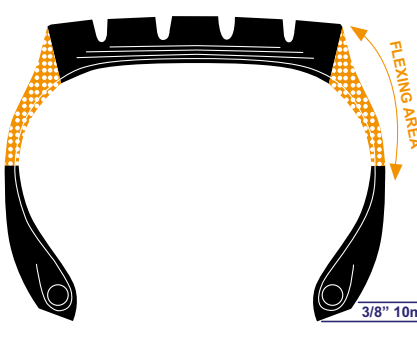
RADIAL TIRES					
		C x R (inches)	RAC		
		5/8" X 1"	20		
		5/8" X 2 3/8"	24		
		1 9/16" X 2 3/8"	80		
		2 3/8" X 1 9/16"	80		
		2 3/8" X 4"	82		
		3 3/8" X 2 3/4"	82		
		2 15/16" X 4 15/16"	84		
		4" X 2 15/16"	84		
		3 9/16" X 5 1/2"	86		
4 15/16" X 4 5/16"	86				
		Ø O (inches)	RAC		
		3/8"	20		
		3/8"	24		
		13/16"	80		
		1 9/16"	82		
		2"	84		
		2 15/16"	86		
				Ø B (inches)	RAC
				3/8"	15
				5/8"	20
5/8"	24				
1 3/16"	80				
2 3/8"	82				
3 1/8"	84				
4"	86				
4 3/4"	87				
				C x R (inches)	RAC
		3/8" X 3/8"	15		
		5/8" X 5/8"	20		
		5/8" X 1 3/16"	24		
		1 3/16" X 2"	80		
		2 3/8" X 2 3/4"	82		
		3 1/8" X 4"	84		
		4" X 5 1/2"	86		
		1 3/16" X 9 7/8"	87		

13.6 - 18.4
12 - 15
300/ - 650/

RADIAL TIRES					
		C x R (inches)	RAC		
		3/8" X 13/16"	20		
		1/2" X 2"	24		
		1" X 2 3/8"	80		
		1 9/16" X 4"	82		
		2 3/8" X 4 15/16"	84		
		3 3/8" X 2 15/16"	84		
		3 3/8" X 4 3/4"	86		
		4 3/4" X 3 1/8"	86		
				Ø O (inches)	RAC
3/8"	20				
3/8"	24				
1 3/16"	82				
1 9/16"	84				
2 3/8"	86				
				Ø B (inches)	RAC
				3/8"	20
				3/8"	24
				1"	80
		1 9/16"	82		
		2 3/4"	84		
		3 3/8"	86		
		4"	87		
				C x R (inches)	RAC
				3/8" X 3/8"	20
3/8" X 13/16"	24				
1" X 1 9/16"	80				
1 9/16" X 2 3/8"	82				
2 3/4" X 3 9/16"	84				
3 3/8" X 4 3/4"	86				
1 9/16" X 6 5/16"	87				

20.8 - 30.5
420/ - 1050/

- Partial penetration of the radial tyres requires a patch in the following cases:
- When the damage reaches the 2nd working band (from the inside outward);
 - When the damage reaches the 3rd working band with 40mm fault, consider 50% of the damage size for patch selection;
 - When the tyre's sidewall is affected;



Notes:
When making the repairs, the patch may not overlap the bending area, if it overlaps this area it must be replaced by another patch of a larger size.
If the patch overlaps the A-B area, the damage is considered as beyond repair.

ATTENTION!

These application charts are valid globally for VIPAL repairs. The magnitude of the damages in the charts is the result of on-field experiences. The applicator must always analyze whether the tire's physical conditions allow safe repairing. Inspecting the casing is essential for checking for other non-apparent damages. Maximum limits of damages must be respected. Repairs with dimensions over the ones estimated in this chart, which may be followed by law in some countries, are not taken into consideration here. The natural responsibility for repair quality falls to the repairman, who technically analyzes and increases these values as necessary, always abiding by the country's laws. Proper patch application and mounting methods should always be considered, as well as the tire manufacturer's repair instructions.

NOMENCLATURE

- C - Circumference - Damage size measured in the direction of tire rotation.
- R - Radial - Damage size measured from bead to bead (Radial) direction.
- ØB - Tread - Diameter of through-the-tire penetration in the tread.
- ØO - Shoulder - Diameter of through-the-tire penetrations in tire's shoulder.