

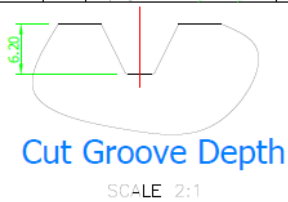
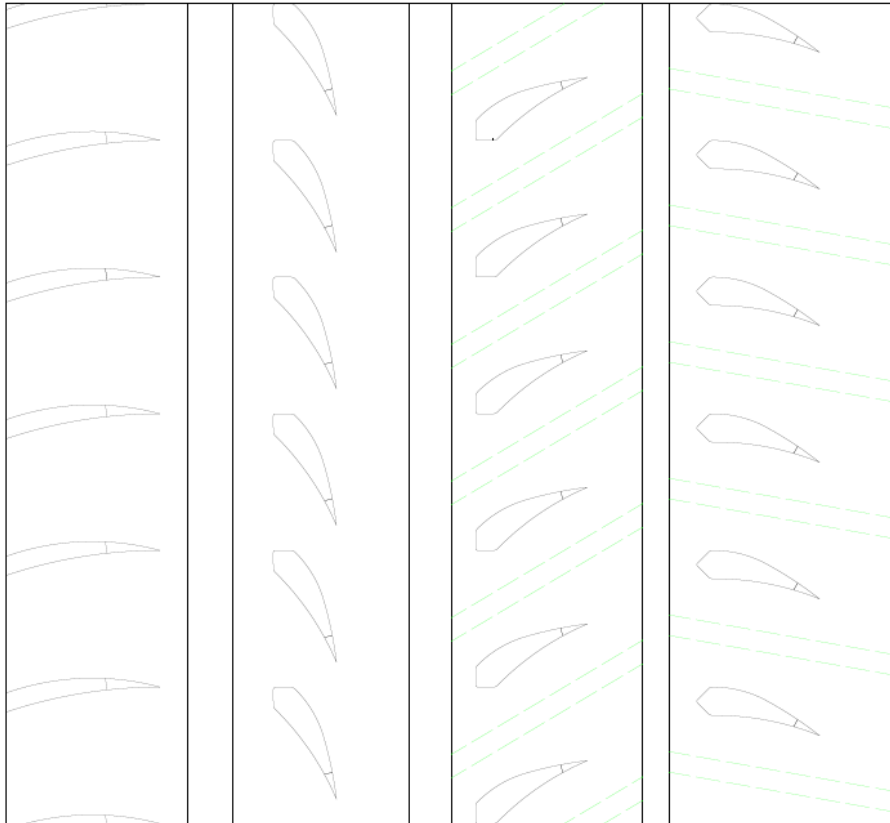


# List of Cut Wet Patterns for Asphalt Tyres

Only valid for European Rally Trophy tarmac events if authorised by the Supplementary Regulations

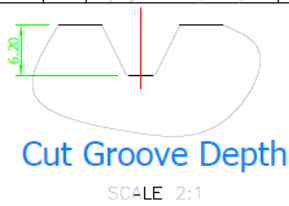
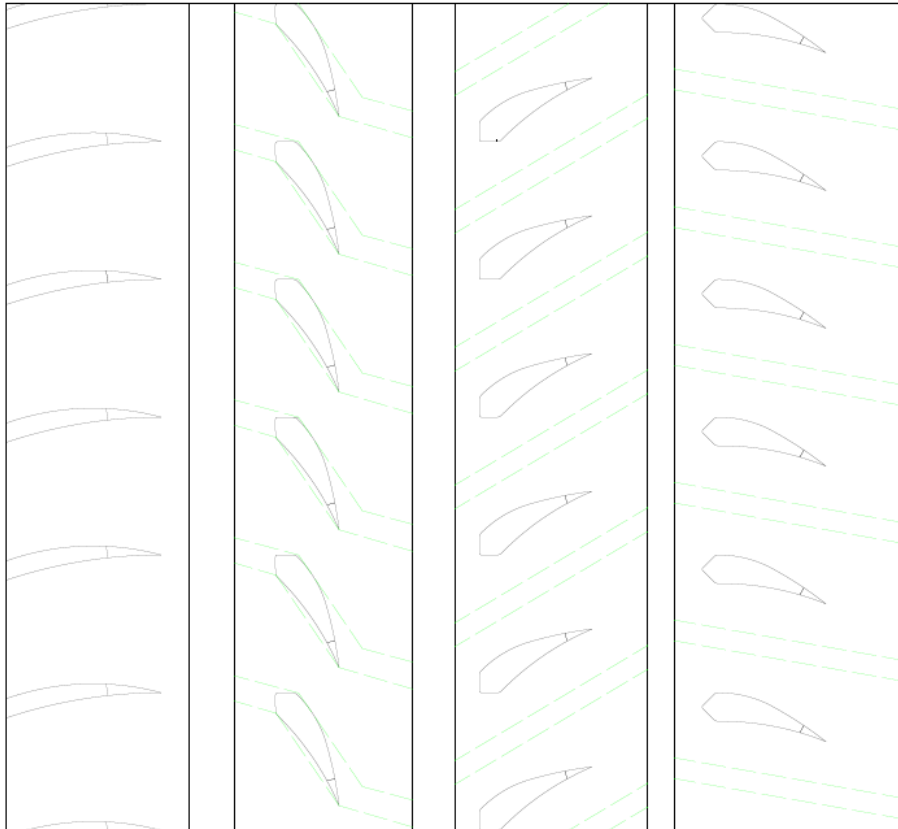
 <b>COOPERTIRES</b>	Page 2
 <b>YOKOHAMA</b>	Page 7
 <b>DMACK</b>	Page 9
 <b>MRF</b>	Page 13
 <b>MICHELIN</b>	Page 18
 <b>PIRELLI</b>	Page 24
 HOOSIER RACING TIRE	Page 27
 <b>EXTREME</b> PERFORMANCE TYRES	Page 31
 <b>DUNLOP</b>	Page 33
 <b>Hankook</b>	Page 34

**COOPER DISCOVERER TARMAC DT02 - 225/40R18 - WET  
CUTTING PATTERN – PHASE 1**



\*Green Lines to Be Cut

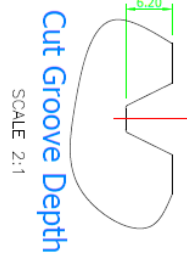
**COOPER DISCOVERER TARMAC DT02 - 225/40R18 - WET  
CUTTING PATTERN – PHASE 2**



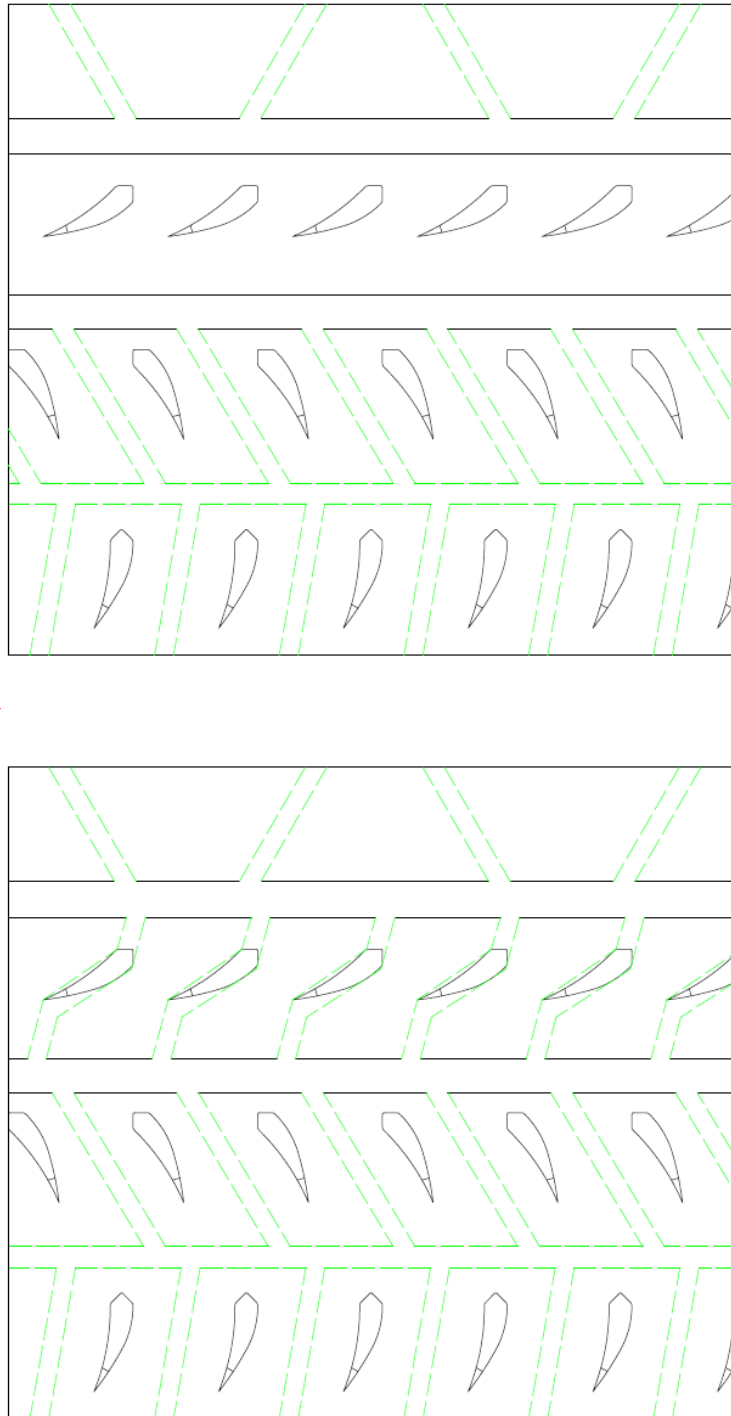
\*Green Lines to Be Cut

**COOPER DISCOVERER TARMAC DT1 - 205/45R17 - WET CUTTING PATTERN**

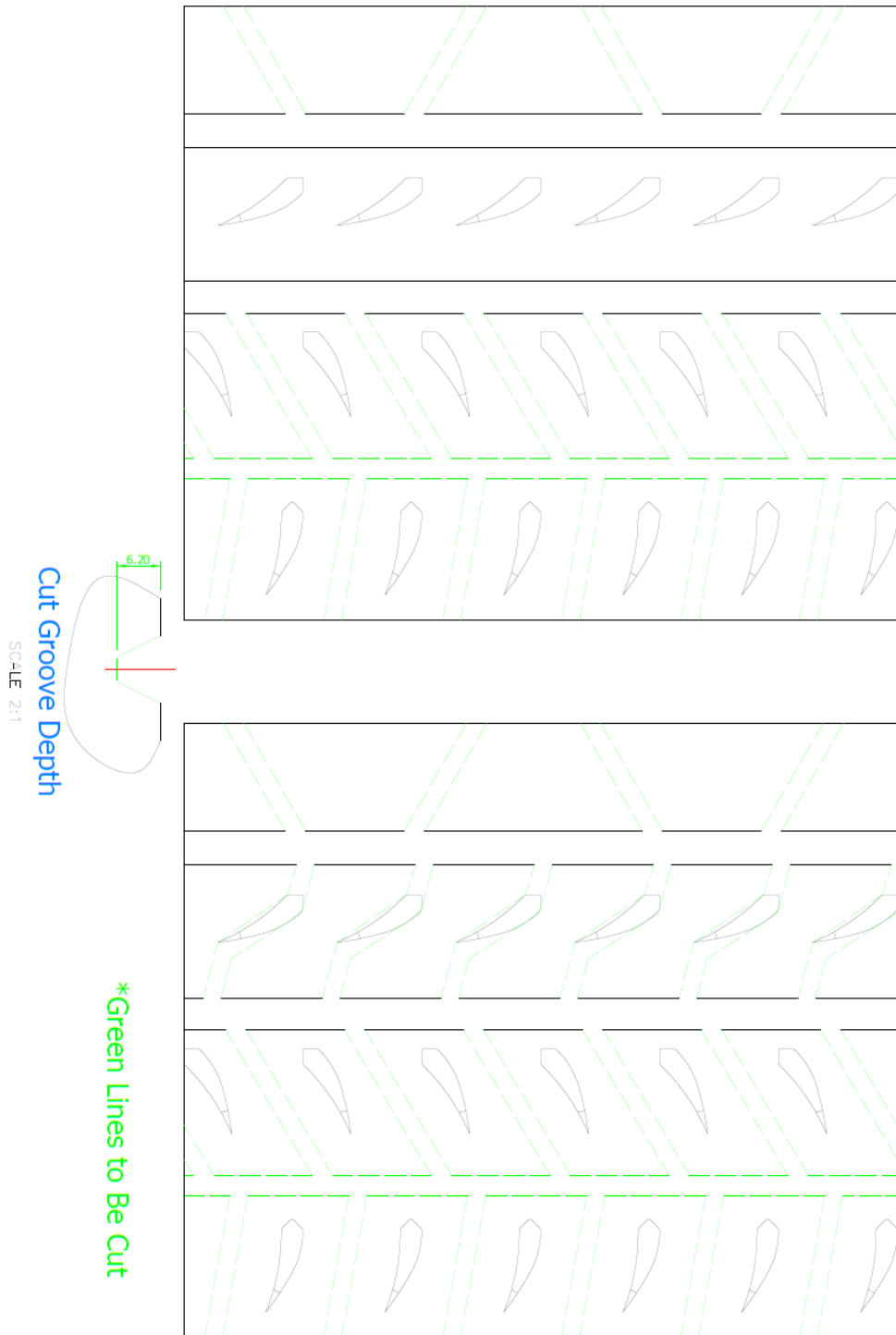
DRAWING REFERENCE



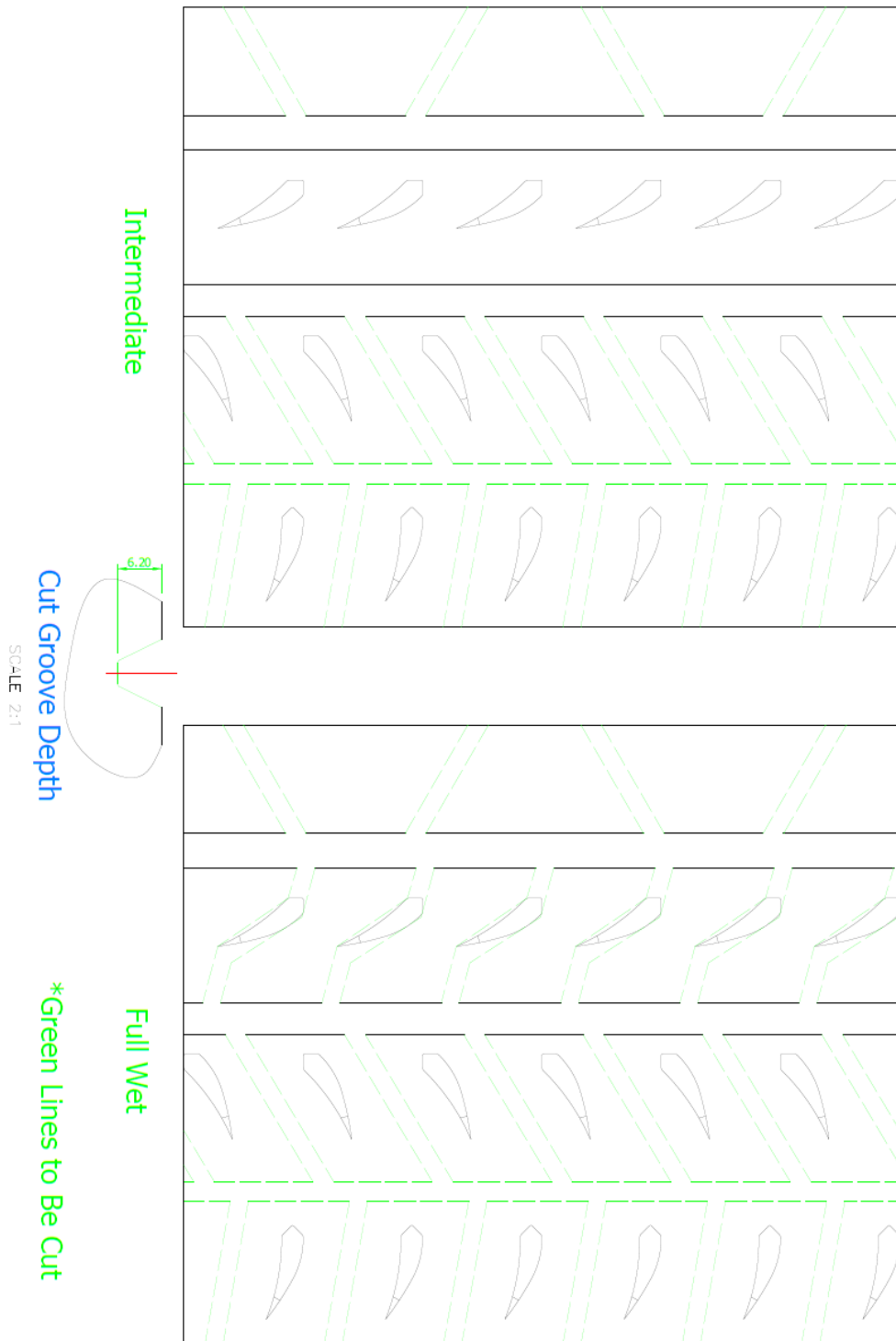
\*Green Lines to Be Cut

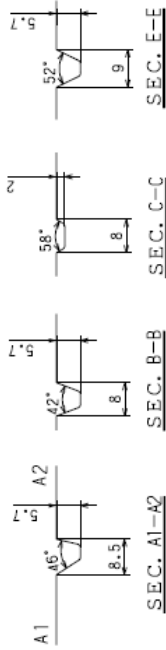


**COOPER DISCOVERER TARMAC DT1 - 195/50R16 - WET CUTTING PATTERN**



**COOPER DISCOVERER TARMAC DT1 - 195/50R15 - WET CUTTING PATTERN**



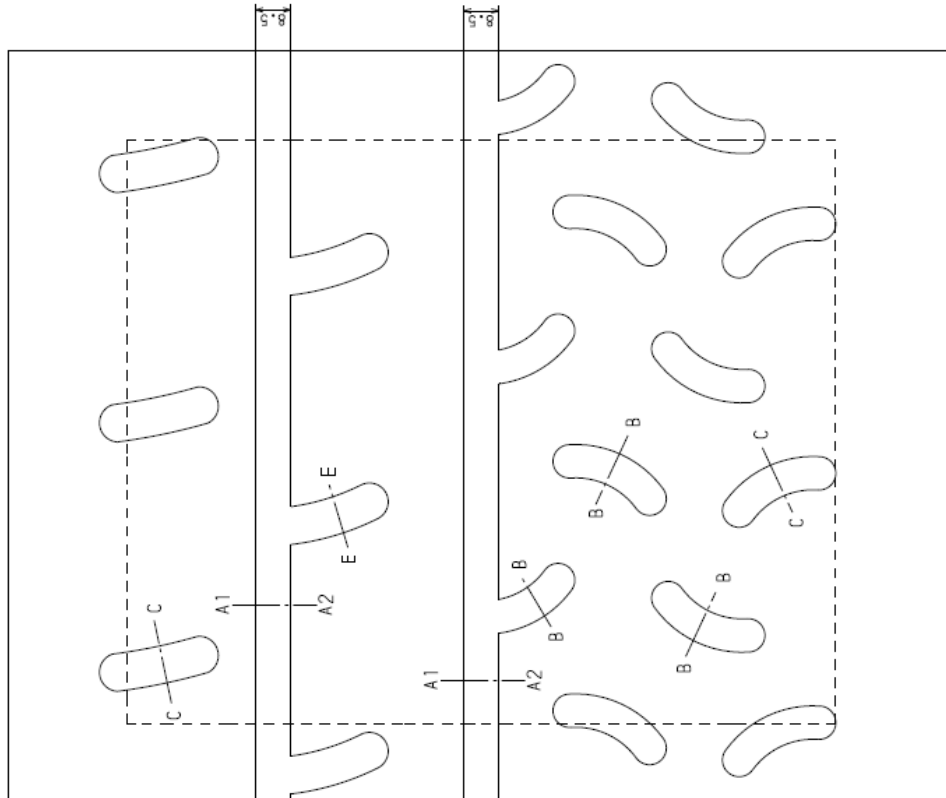
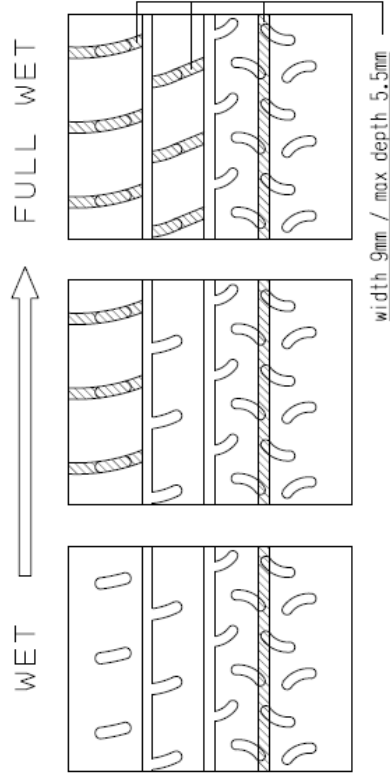


In the control area  
5.5mm grooves-18.1%  
Total grooves-22.2%

----- Control area 170X140

Tyre weight 9.7kg

### HAND-CUT GROOVE RECOMMENDATION

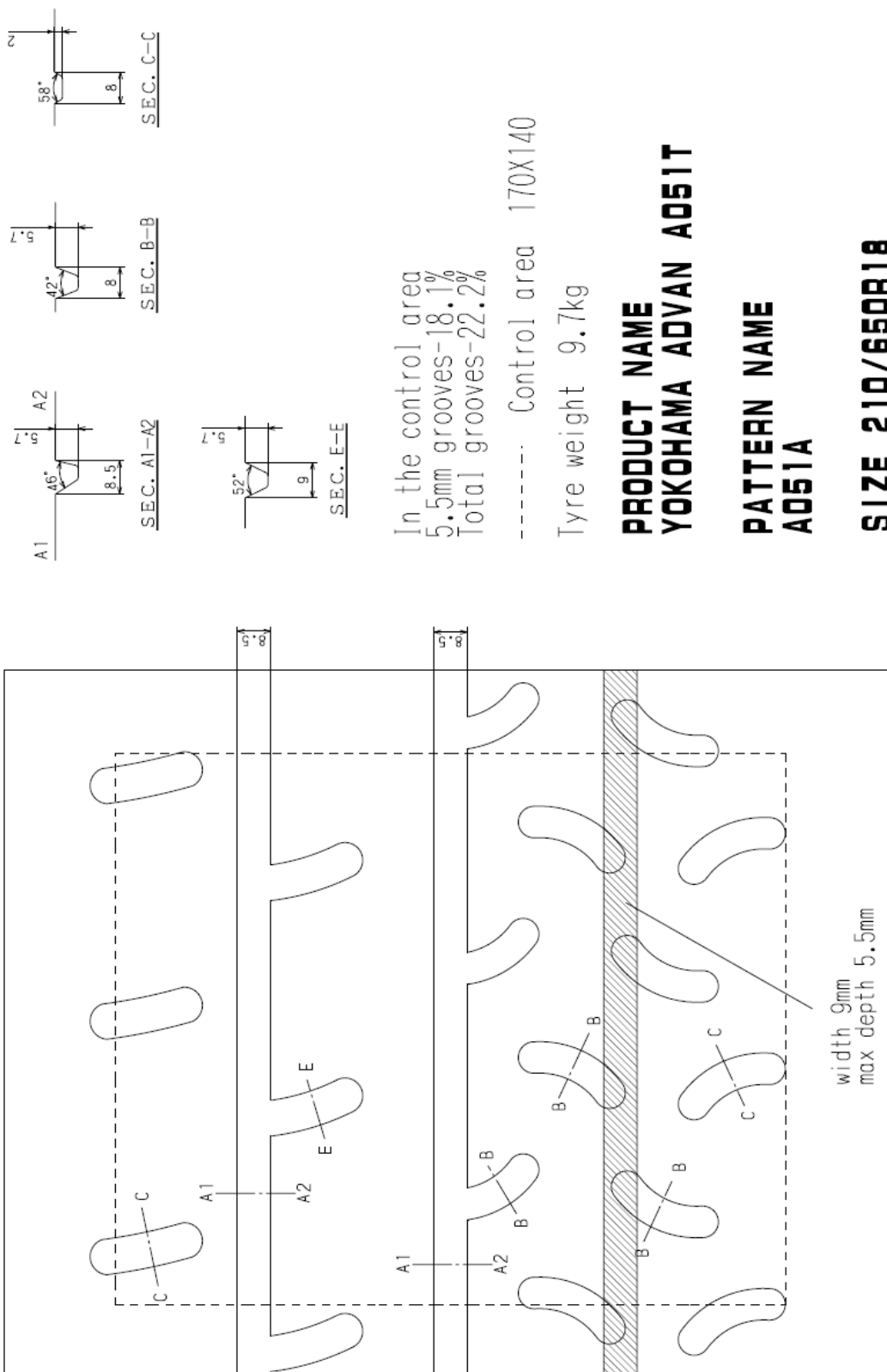


**PATTERN NAME**  
**A051A**

**PRODUCT NAME**  
**YOKOHAMA ADVAN A051T**

**SIZE 210/650R18**

# HAND-CUT GROOVE RECOMMENDATION



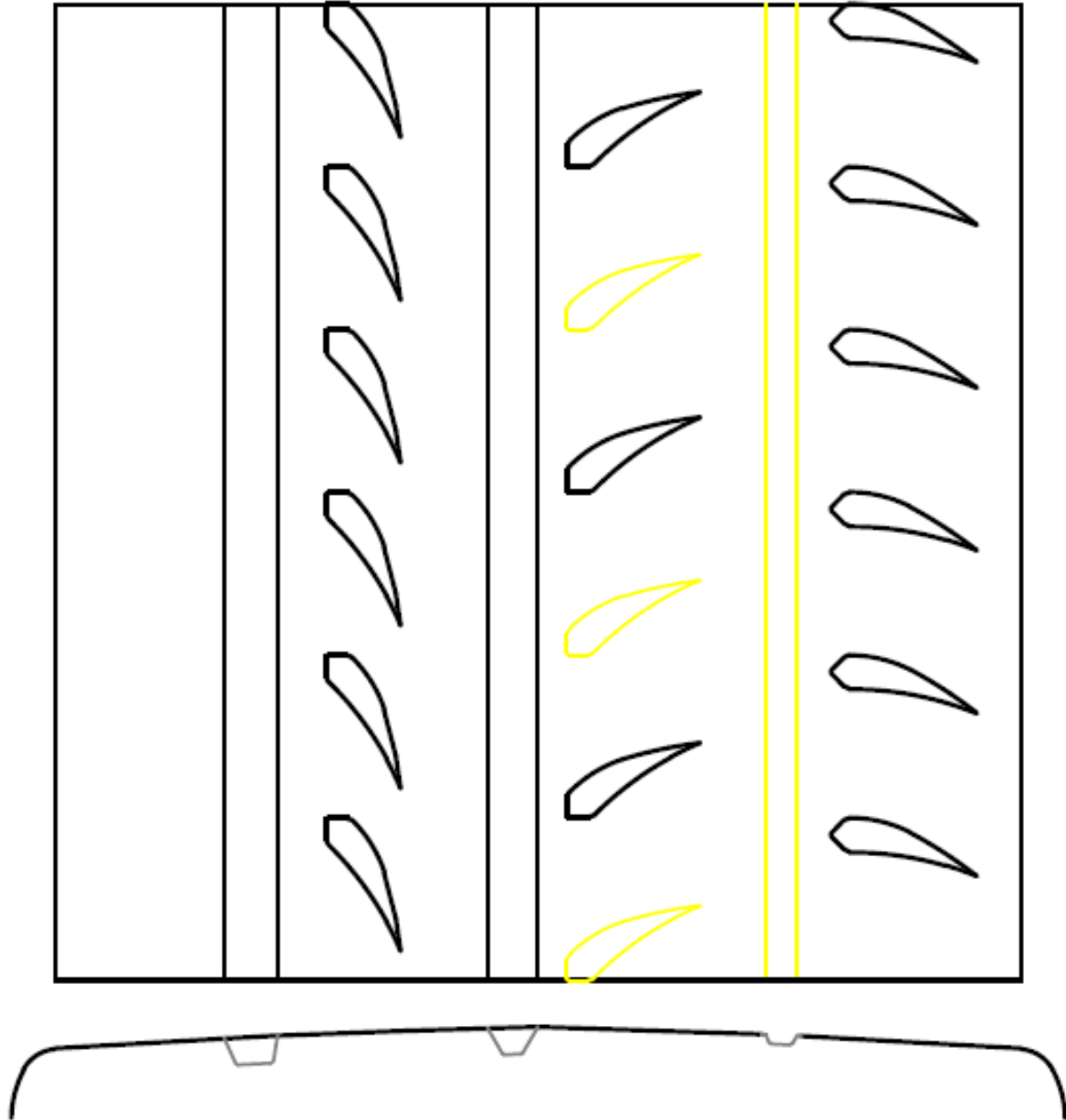
**PRODUCT NAME**  
**YOKOHAMA ADVAN A051T**

**PATTERN NAME**  
**A051A**

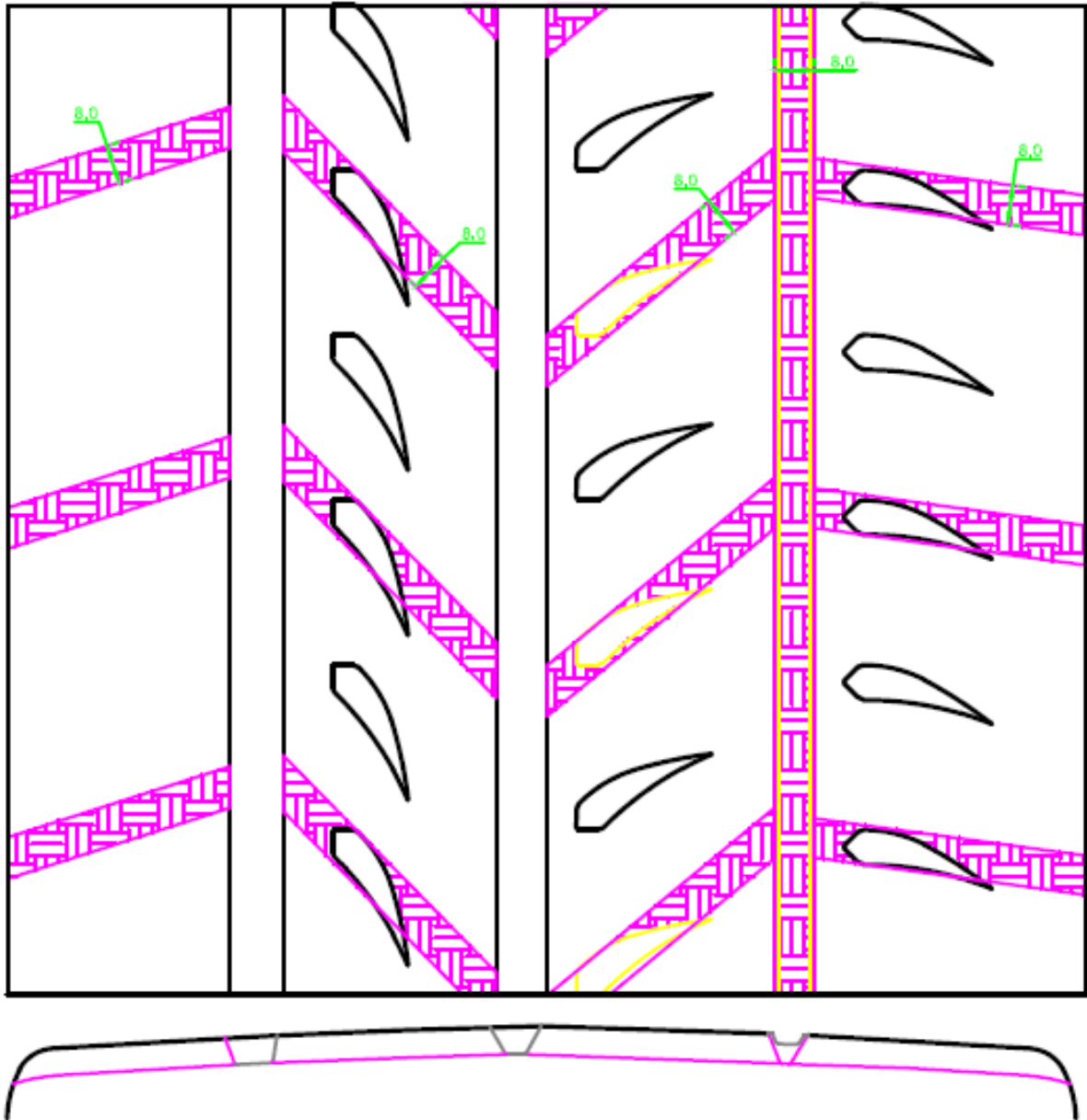
**SIZE 210/650R18**



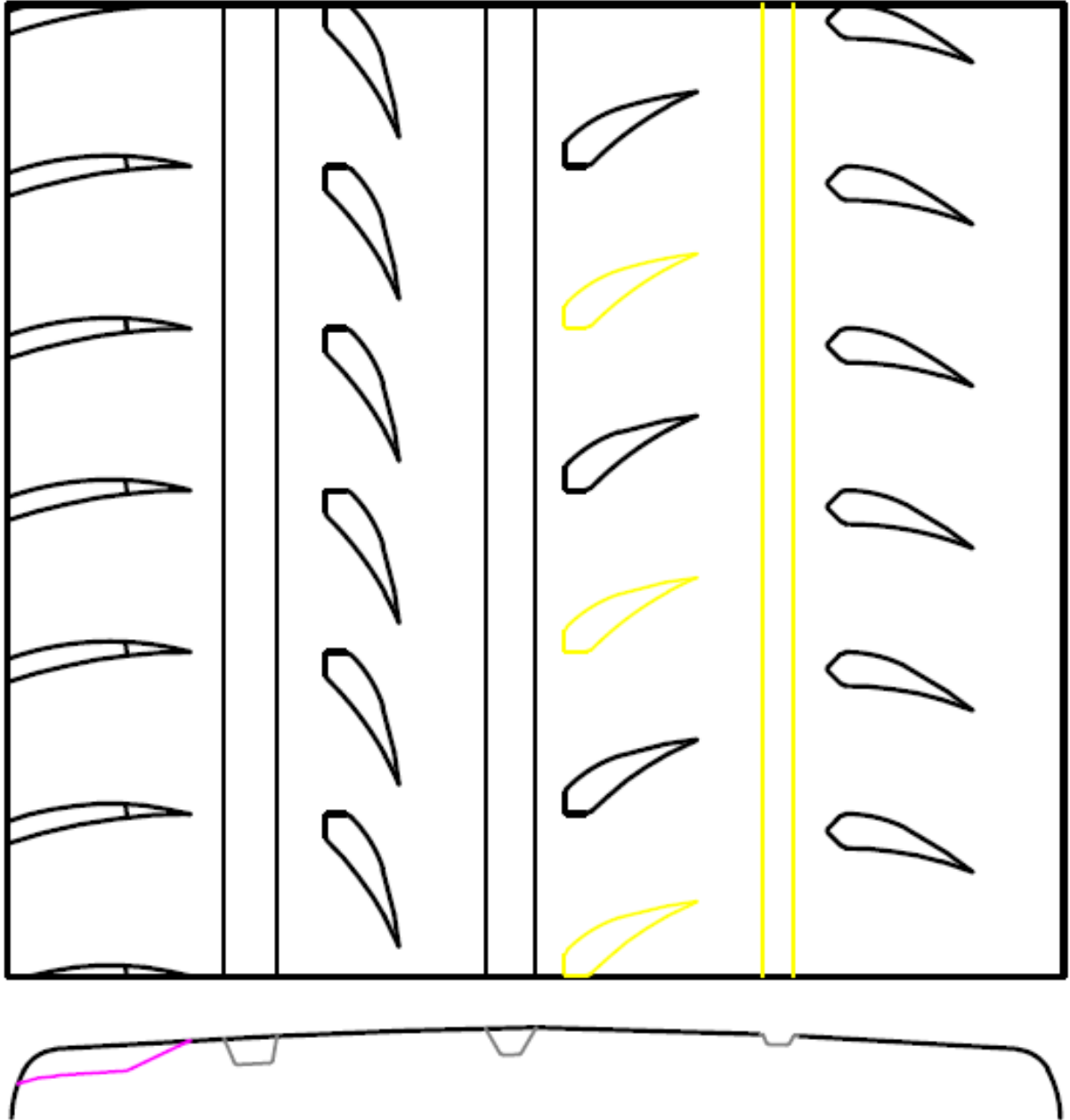
## DMT RC2



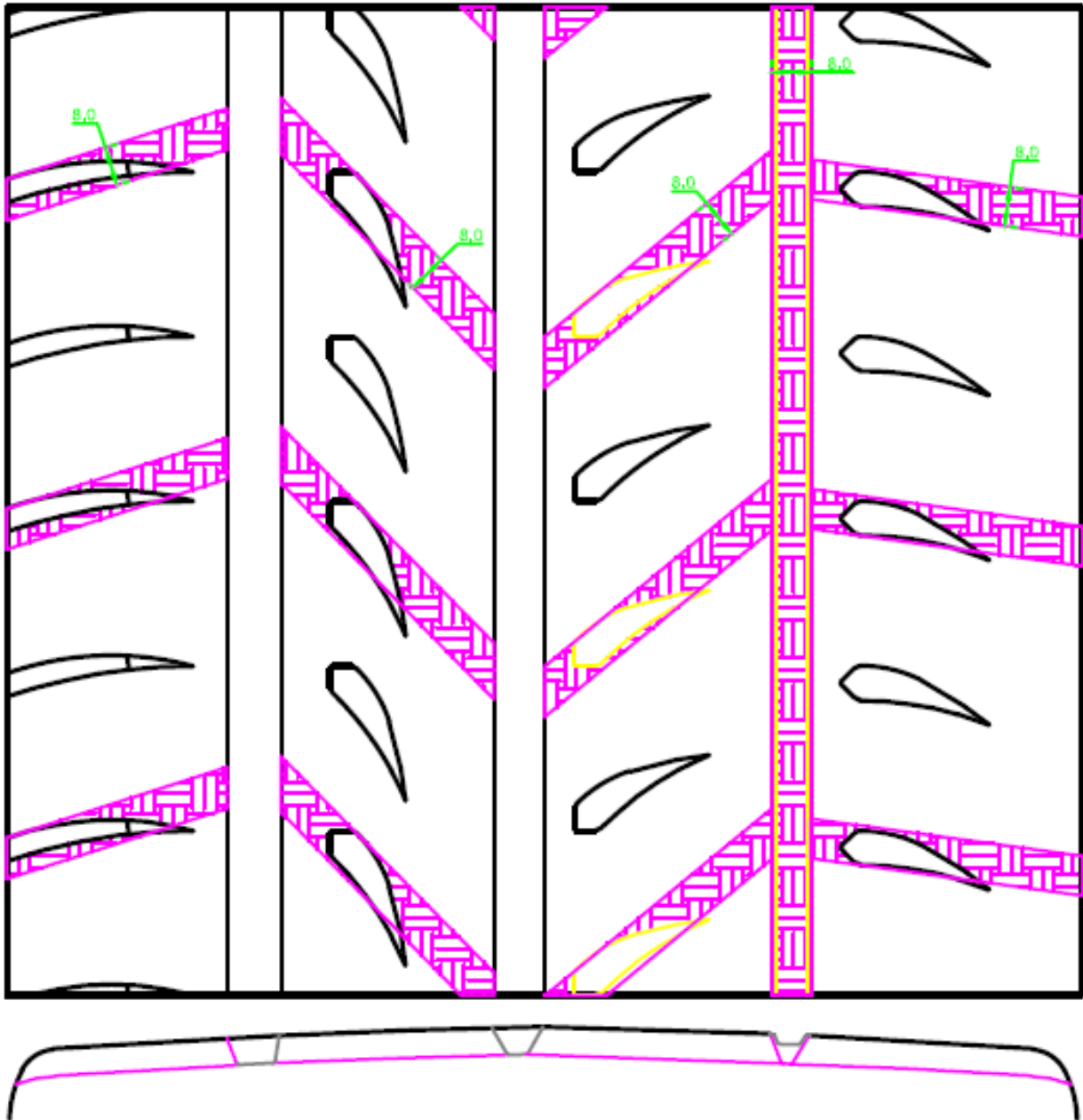
## DMT RC2 Wet Cut



## DMT RC22

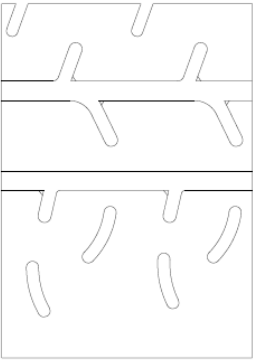
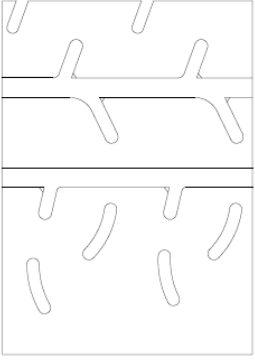
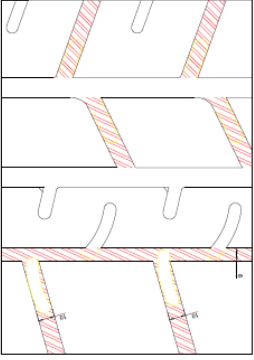


## DMT RC22 Wet Cut







**MRF**

	 <p>235/40 R18 ZTA</p>	 <p>235/40 R18 ZTA HC-1 LIGHT RAIN</p>	 <p>235/40 R18 ZTA HC-2 HEAVY RAIN</p>
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	 <p>235/40R18 ZTA TL-PATTERN HAND CUT WET</p>
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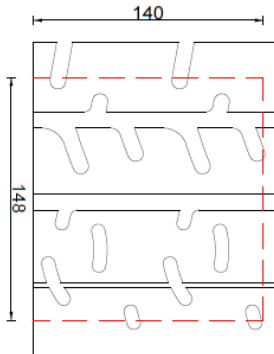
  

	 <p>235/40R18 ZTA TL-PATTERN HAND CUT WET</p>
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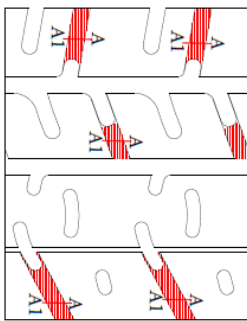


### 195/50 R15 Tarmac Rally - Hand Cut Pattern for Wet

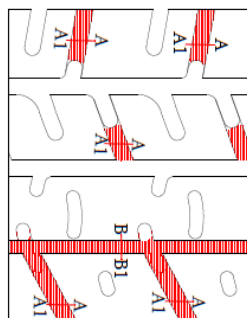
Dry Pattern  
Groove Ratio > 17%



Light Rain  
Groove Ratio > 27.5%



Heavy Rain  
Groove Ratio > 32.5%



Control area 148 x 140 mm (Dotted Line)

SECTION: A-A1

SECTION: B-B1

A-A1 - 10 mm  
B-B1 - 8 mm  
Hand Cut Groove Portion

CLASS 8"  
RIM 6.5"

DATE	19/03/2024	BY	SA
REVISION		REASON	
1			
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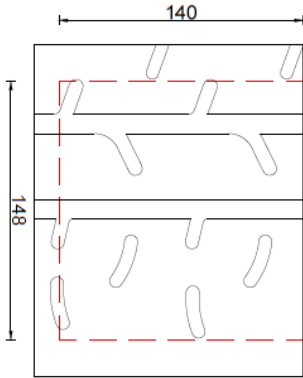


# MRF

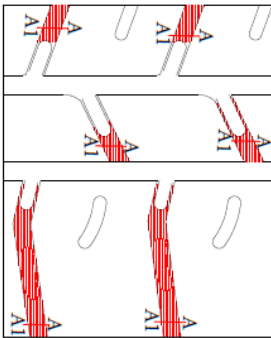


## 195/50 R16 Tarmac Rally - Hand Cut Pattern for Wet

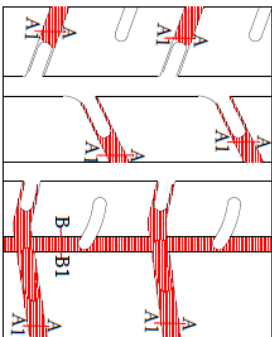
Dry Pattern  
Groove Ratio > 17%



Light Rain  
Groove Ratio > 27.5%



Heavy Rain  
Groove Ratio > 32.5%



Control area 148 x 140 mm (Dotted Line)

SECTION: A-A1

SECTION: B-B1

A-A1 - 10 mm  
B-B1 - 8 mm

Hand Cut Groove Portion

CLASS 8"  
RIM 6.5"

NO.	DESCRIPTION	UNIT	QTY
1	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
2	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
3	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
4	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
5	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
6	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
7	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
8	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
9	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
10	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
11	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
12	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
13	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
14	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
15	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
16	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
17	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
18	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
19	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
20	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
21	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
22	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
23	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
24	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
25	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
26	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
27	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
28	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
29	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
30	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
31	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
32	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
33	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
34	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
35	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
36	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
37	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
38	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
39	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
40	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
41	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
42	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
43	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
44	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
45	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
46	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
47	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
48	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
49	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
50	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
51	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
52	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
53	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
54	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
55	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
56	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
57	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
58	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
59	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
60	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
61	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
62	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
63	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
64	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
65	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
66	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
67	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
68	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
69	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
70	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
71	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
72	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
73	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
74	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
75	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
76	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
77	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
78	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
79	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
80	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
81	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
82	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
83	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
84	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
85	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
86	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
87	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
88	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
89	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
90	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
91	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
92	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
93	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
94	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
95	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
96	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
97	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
98	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
99	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40
100	Hand Cut Groove Portion	m <sup>2</sup>	1.48 x 1.40

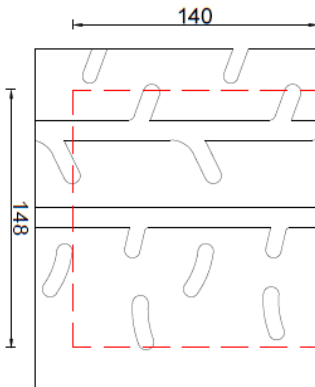


**MRF**

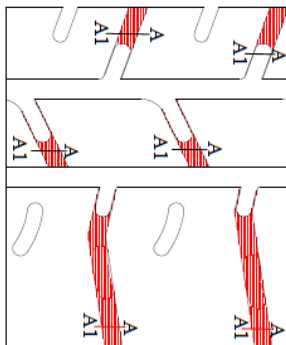


**205/45 R17 Tarmac Rally - Hand Cut Pattern for Wet**

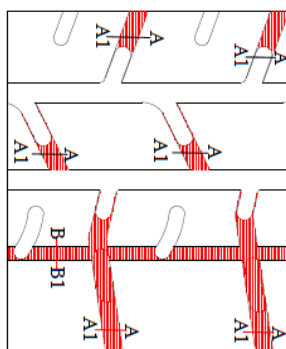
Dry Pattern  
Groove Ratio > 17%



Light Rain  
Groove Ratio > 27.5%



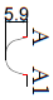
Heavy Rain  
Groove Ratio > 32.5%



Control area 148 x 140 mm (Dotted Line)

SECTION: A-A1

SECTION: B-B1



A-A1 - 10 mm  
B-B1 - 8 mm

Hand Cut Groove Portion

CLASS 8"  
RIM 7.0"

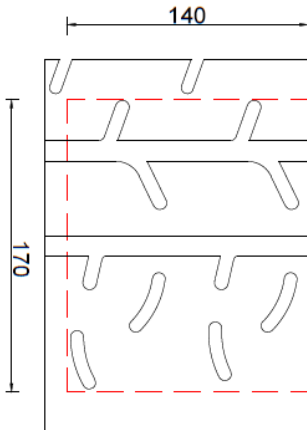
DESIGNER	MRF	DATE	11/11/2023
APPROVED	MRF	DATE	11/11/2023
REVISION			
NO.			
DATE			
BY			
CHECKED			
DATE			
BY			
DRAWN BY: MRF			
CHECKED BY: MRF			
DATE: 11/11/2023			
PROJECT: 205/45 R17 Tarmac Rally - Hand Cut Pattern for Wet			
DRAWING NO: FA-0005			
SCALE: 1:1			
SHEET NO: 1			
TOTAL SHEETS: 1			



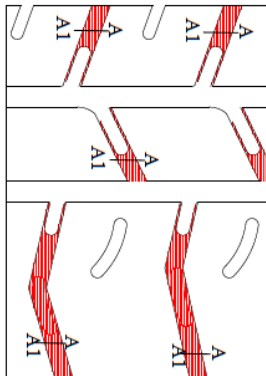


## 235/40 R18 Tarmac Rally - Hand Cut Pattern for Wet

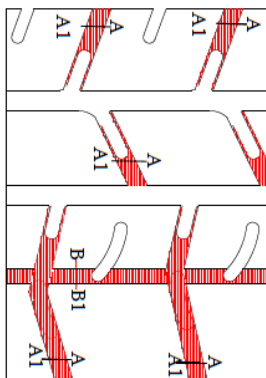
Dry Pattern  
Groove Ratio > 17%



Light Rain  
Groove Ratio > 27.5%



Heavy Rain  
Groove Ratio > 32.5%



Control area 170 x 140 mm (Dotted Line)

SECTION: A-A1

SECTION: B-B1

A-A1 - 10 mm  
B-B1 - 8 mm  
Hand Cut Groove Portion

CLASS 9"  
RIM 8.0"

GENERAL INFORMATION		MATERIAL		FINISH	
Part No.		Material	Steel	Finish	Hand Cut
Part Name		Part Name	Hand Cut Groove Pattern	Part No.	F-A-0018
Part Description		Part Description	Hand Cut Groove Pattern	Part No.	F-A-0018
Part Drawing		Part Drawing	Hand Cut Groove Pattern	Part No.	F-A-0018
Part Material		Part Material	Steel	Part No.	F-A-0018
Part Finish		Part Finish	Hand Cut	Part No.	F-A-0018
Part Class		Part Class	Hand Cut	Part No.	F-A-0018
Part Rim		Part Rim	8.0"	Part No.	F-A-0018
Part Size		Part Size	Hand Cut	Part No.	F-A-0018
Part Weight		Part Weight	Hand Cut	Part No.	F-A-0018
Part Volume		Part Volume	Hand Cut	Part No.	F-A-0018
Part Length		Part Length	Hand Cut	Part No.	F-A-0018
Part Width		Part Width	Hand Cut	Part No.	F-A-0018
Part Height		Part Height	Hand Cut	Part No.	F-A-0018
Part Thickness		Part Thickness	Hand Cut	Part No.	F-A-0018
Part Diameter		Part Diameter	Hand Cut	Part No.	F-A-0018
Part Radius		Part Radius	Hand Cut	Part No.	F-A-0018
Part Area		Part Area	Hand Cut	Part No.	F-A-0018
Part Volume		Part Volume	Hand Cut	Part No.	F-A-0018
Part Weight		Part Weight	Hand Cut	Part No.	F-A-0018
Part Length		Part Length	Hand Cut	Part No.	F-A-0018
Part Width		Part Width	Hand Cut	Part No.	F-A-0018
Part Height		Part Height	Hand Cut	Part No.	F-A-0018
Part Thickness		Part Thickness	Hand Cut	Part No.	F-A-0018
Part Diameter		Part Diameter	Hand Cut	Part No.	F-A-0018
Part Radius		Part Radius	Hand Cut	Part No.	F-A-0018
Part Area		Part Area	Hand Cut	Part No.	F-A-0018
Part Volume		Part Volume	Hand Cut	Part No.	F-A-0018
Part Weight		Part Weight	Hand Cut	Part No.	F-A-0018
Part Length		Part Length	Hand Cut	Part No.	F-A-0018
Part Width		Part Width	Hand Cut	Part No.	F-A-0018
Part Height		Part Height	Hand Cut	Part No.	F-A-0018
Part Thickness		Part Thickness	Hand Cut	Part No.	F-A-0018
Part Diameter		Part Diameter	Hand Cut	Part No.	F-A-0018
Part Radius		Part Radius	Hand Cut	Part No.	F-A-0018
Part Area		Part Area	Hand Cut	Part No.	F-A-0018
Part Volume		Part Volume	Hand Cut	Part No.	F-A-0018
Part Weight		Part Weight	Hand Cut	Part No.	F-A-0018
Part Length		Part Length	Hand Cut	Part No.	F-A-0018
Part Width		Part Width	Hand Cut	Part No.	F-A-0018
Part Height		Part Height	Hand Cut	Part No.	F-A-0018
Part Thickness		Part Thickness	Hand Cut	Part No.	F-A-0018
Part Diameter		Part Diameter	Hand Cut	Part No.	F-A-0018
Part Radius		Part Radius	Hand Cut	Part No.	F-A-0018
Part Area		Part Area	Hand Cut	Part No.	F-A-0018
Part Volume		Part Volume	Hand Cut	Part No.	F-A-0018
Part Weight		Part Weight	Hand Cut	Part No.	F-A-0018



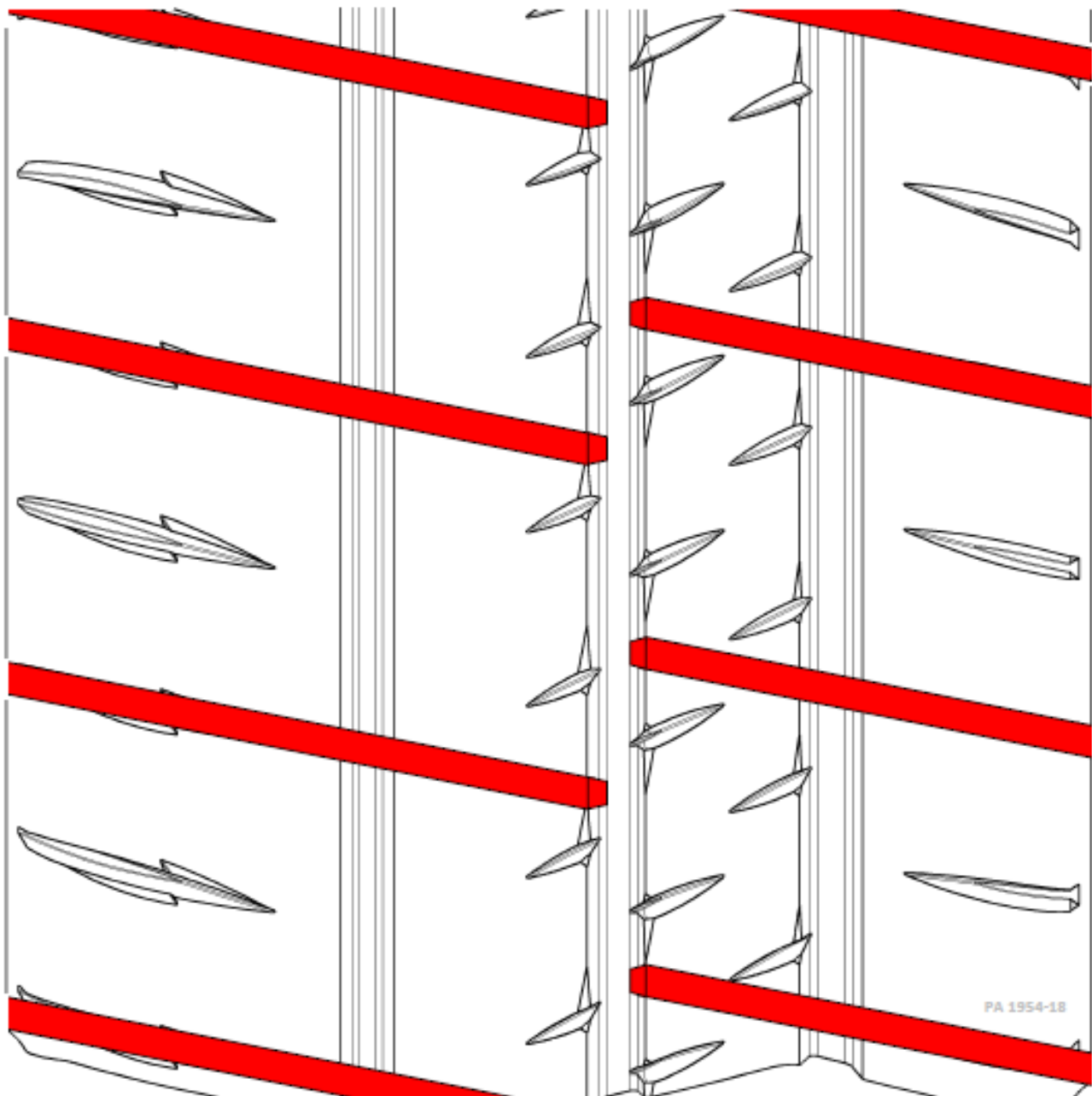
Category : GT Asphalt Rally  
Dimension : 24 / 65 – 18 TL PILOT SPORT R  
Cutting plan of Pilot Sport R tread pattern for RGT

Clermont-Ferrand the 20/05/2020

cuts (red parts) with Blade R2



Extérieur véhicule

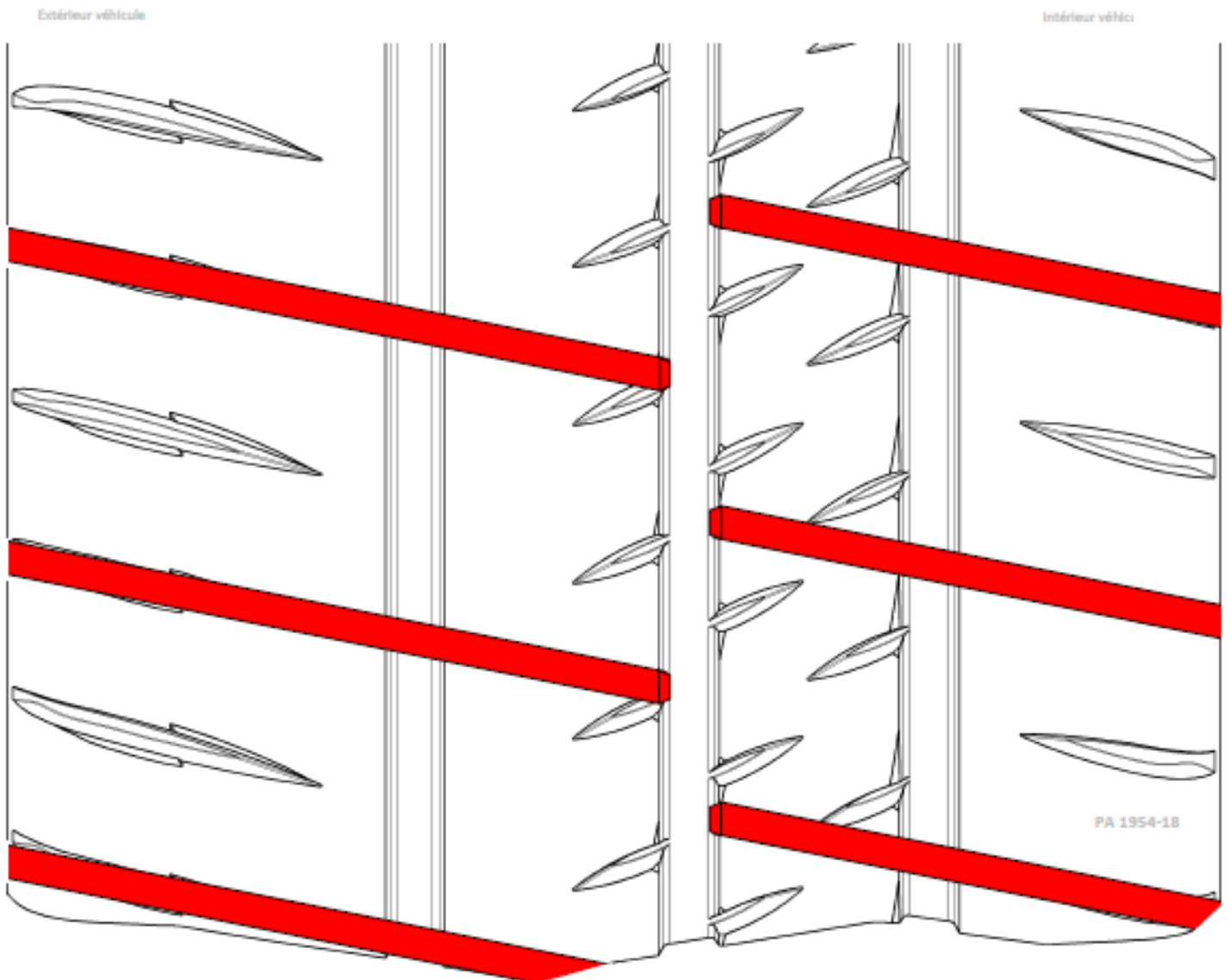
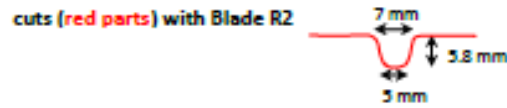


PA 1954-18



Category : GT Asphalt Rally  
Dimension : 29 / 65 – 18 TL PILOT SPORT R  
Cutting plan of Pilot Sport R tread pattern for RGT

Clermont-Ferrand the 20/05/2020



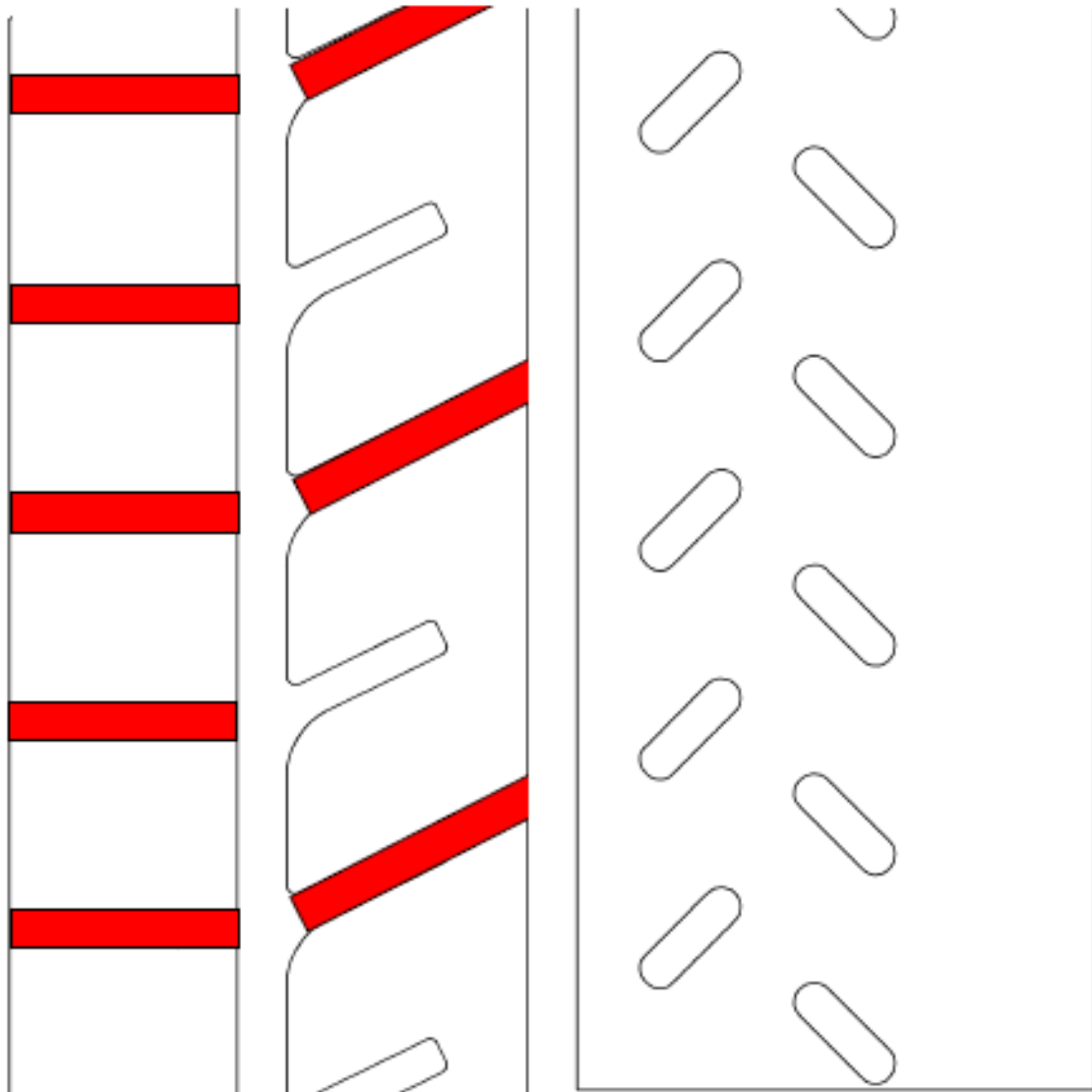
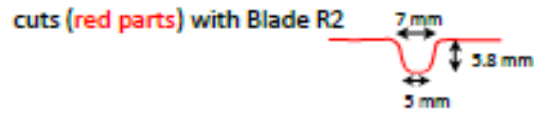


Category : Asphalt Rally

Clermont-Ferrand the 20/05/2020

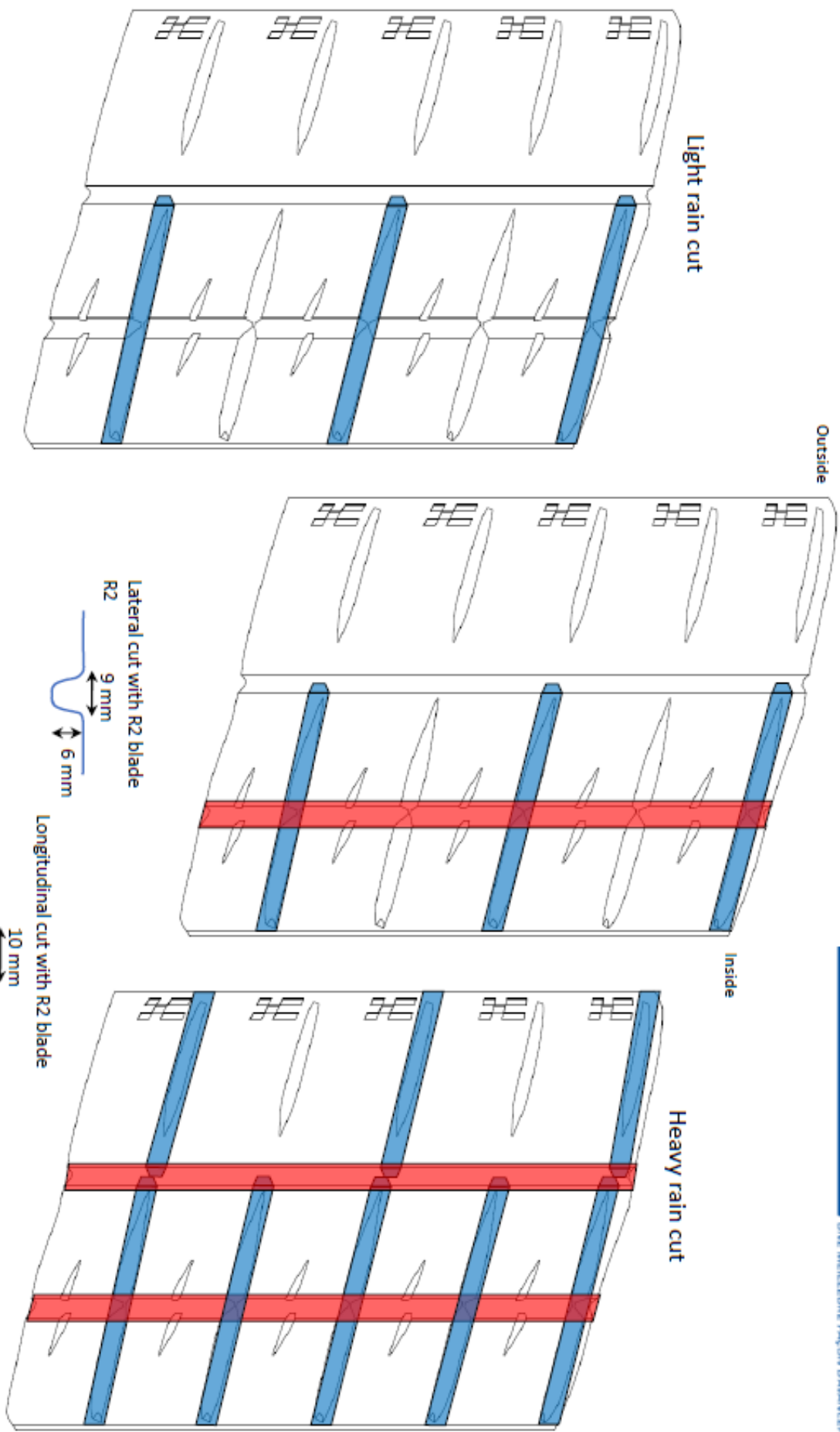
Dimensions : 20/65-18, 20/63/17, 19/63-17, 19/60-16, 20/58-15, 19/58-15, 16/57-14

Cutting plan of Pilot Sport R tread pattern



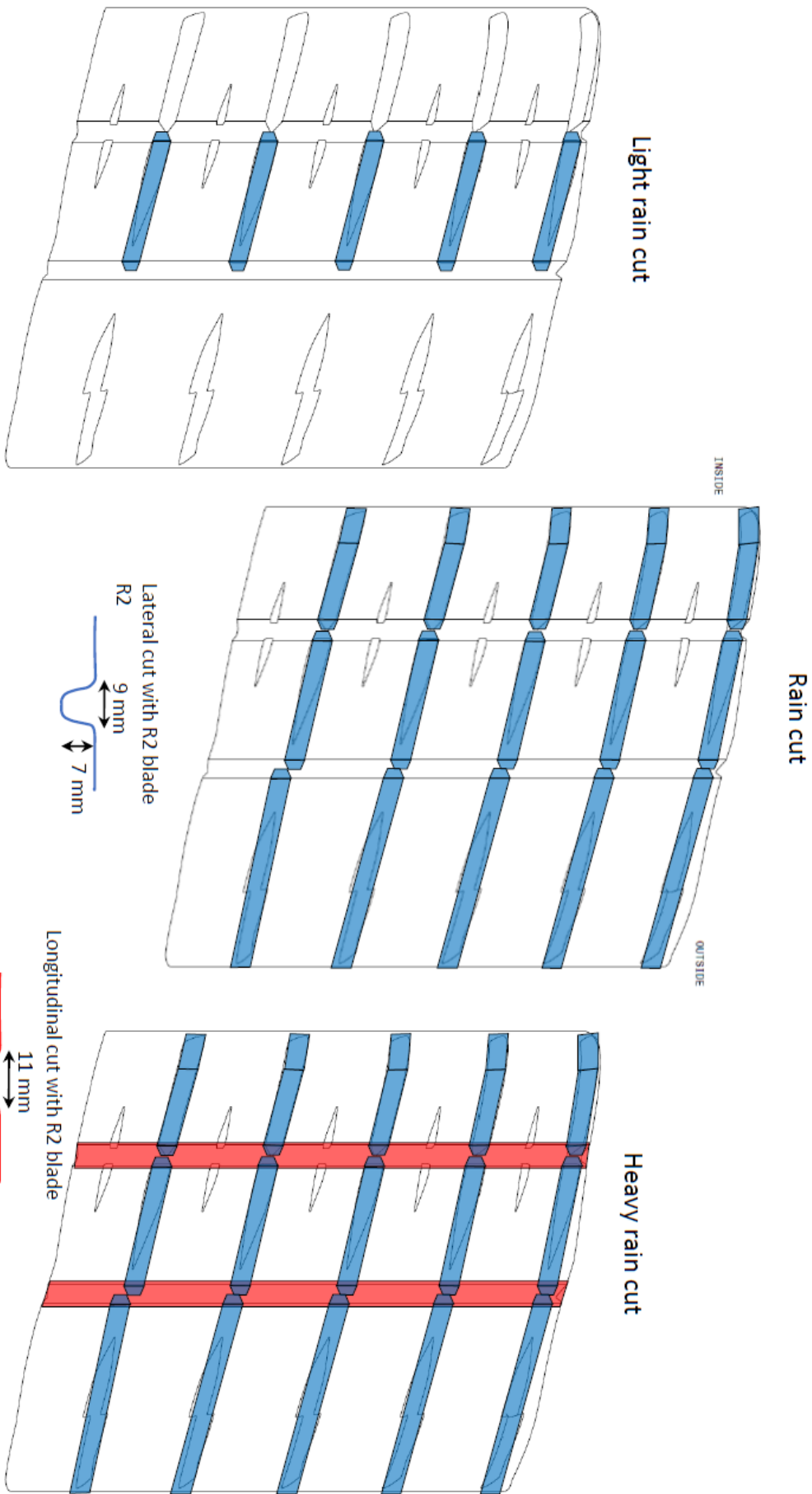
**MICHELIN 19/60-16 & 19/63-17 TL PILOT SPORT PRO RALLY hand cut pattern**

Clermont-Ferrand the 02/19/2023



**MICHELIN 20/65-18 TL PILOT SPORT A hand cut pattern**

Clemont-Ferrand the 02/19/2023



# NEW 2024

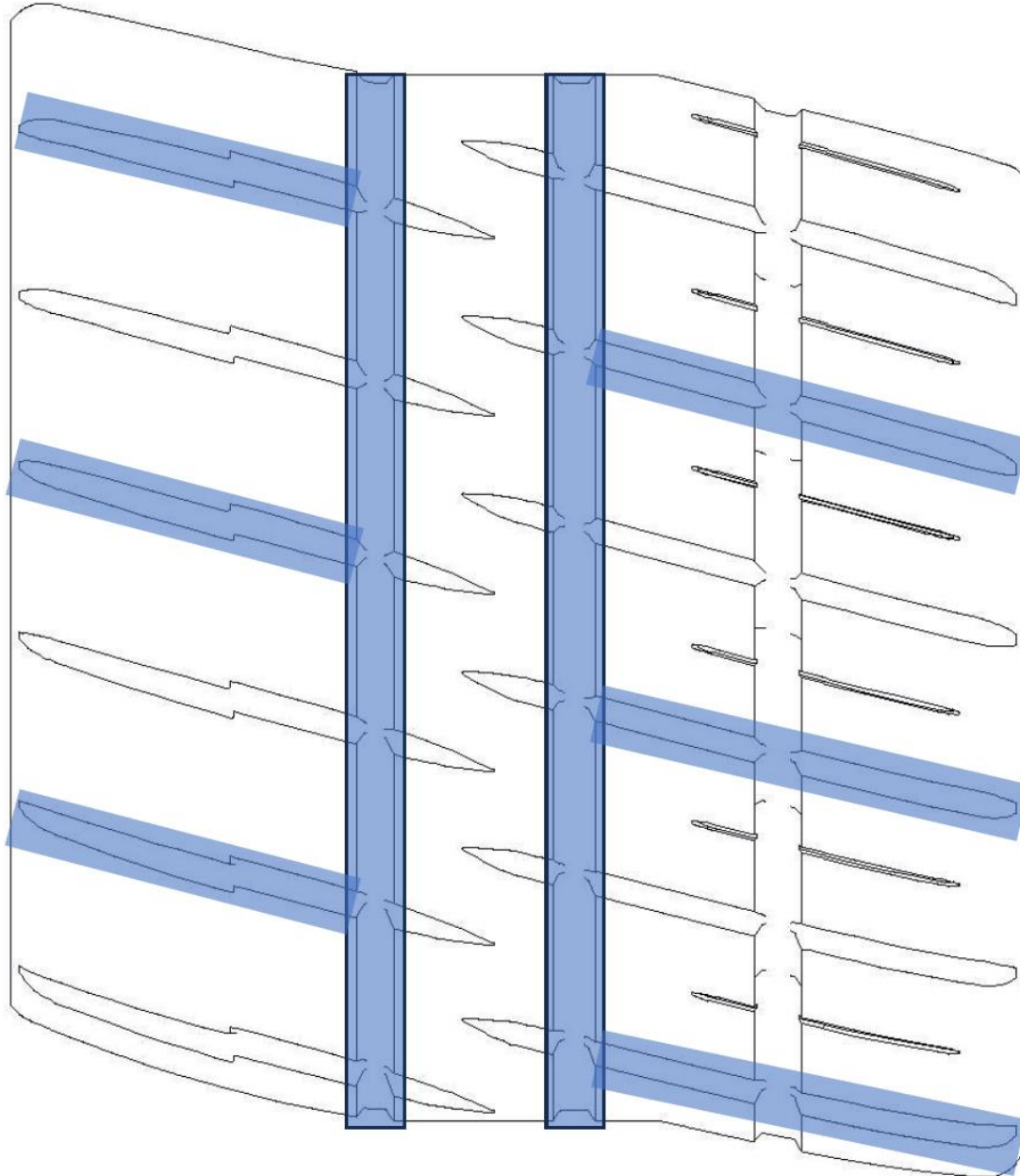
Domaine : Rallye Asphalte  
Dimension : 20 / 65 - 18 TL Pilot Sport A MW1  
Plan de cut



Clermont-Ferrand le 27/03/2024

Côté Extérieur véhicule

Côté Intérieur véhicule



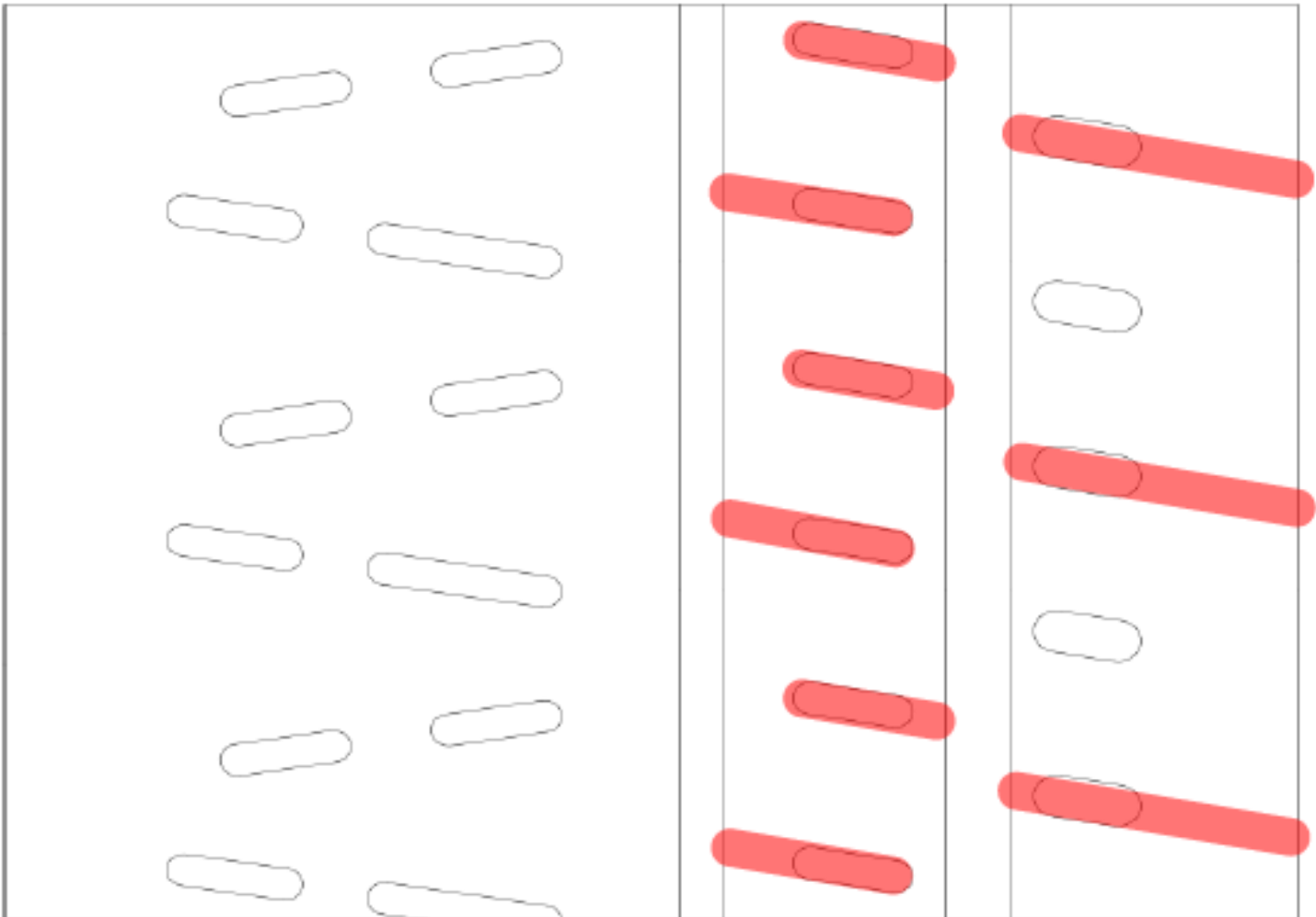


235/40R18 PZERO RA  
205/45R17 PZERO RA  
195/50R16 PZERO RA

Cut 1 for Damp conditions



W = 6 mm  
D = 6 mm  
Blade R2





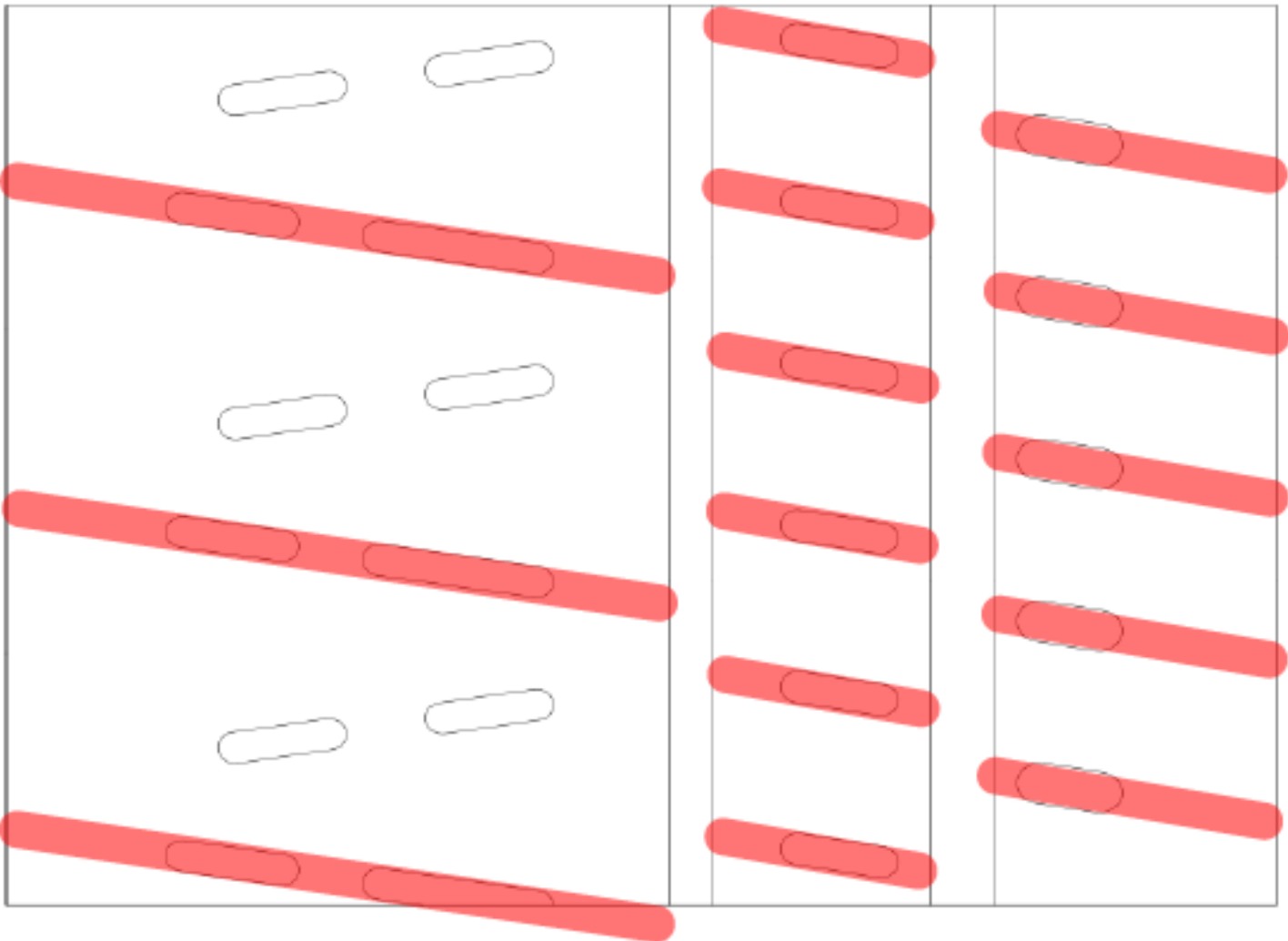


235/40R18 PZERO RA  
205/45R17 PZERO RA  
195/50R16 PZERO RA

Cut 3 for Wet conditions



W = 6 mm  
D = 6 mm  
Blade R2





235/40R18 CINTURATO RW  
205/45R17 CINTURATO RW  
195/50R16 CINTURATO RW

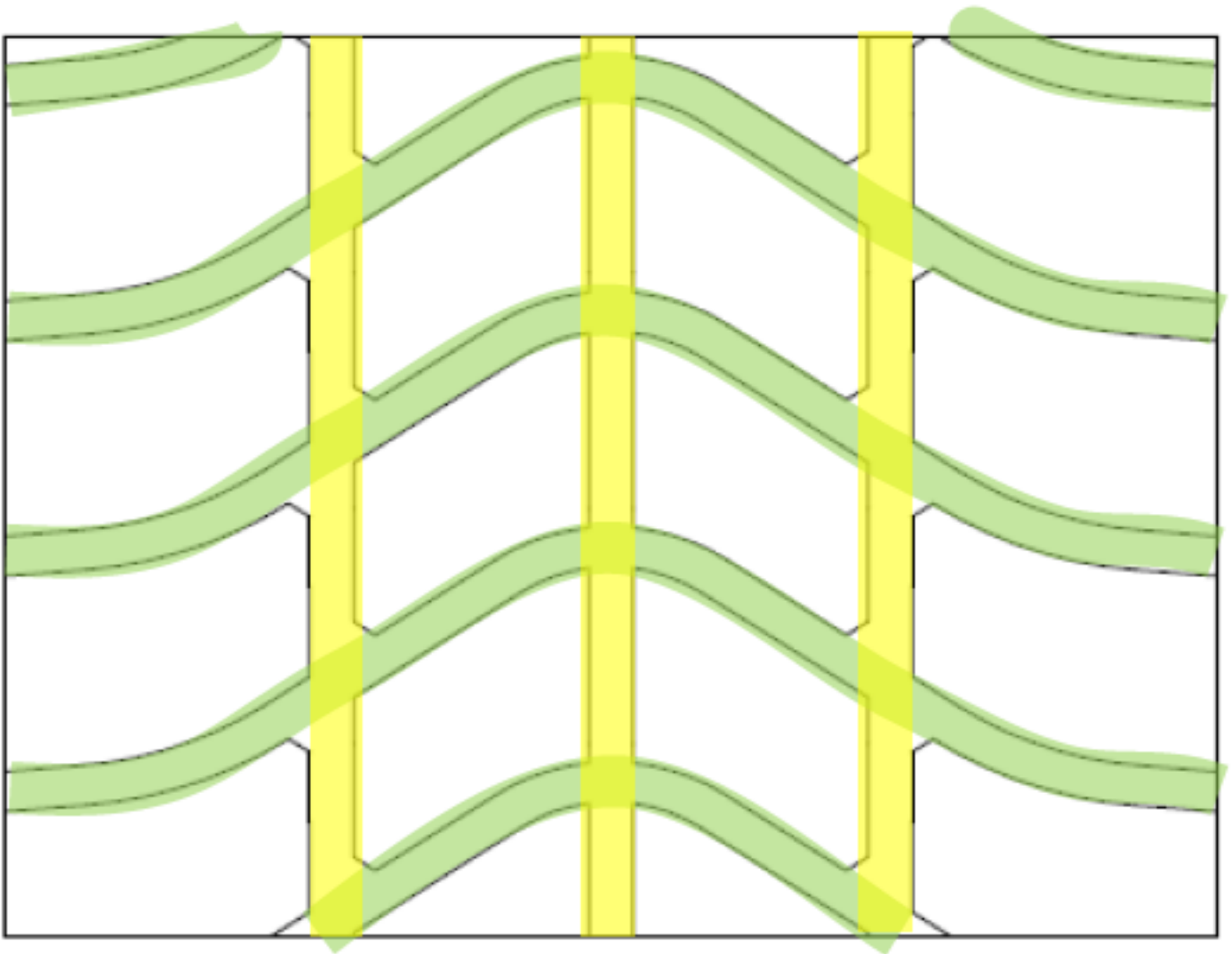
Cut 4 for Wet conditions with standing water on the stage



W = 8 mm  
D = 7 mm  
Blade W4



W = 6 mm  
D = 7 mm  
Blade R3

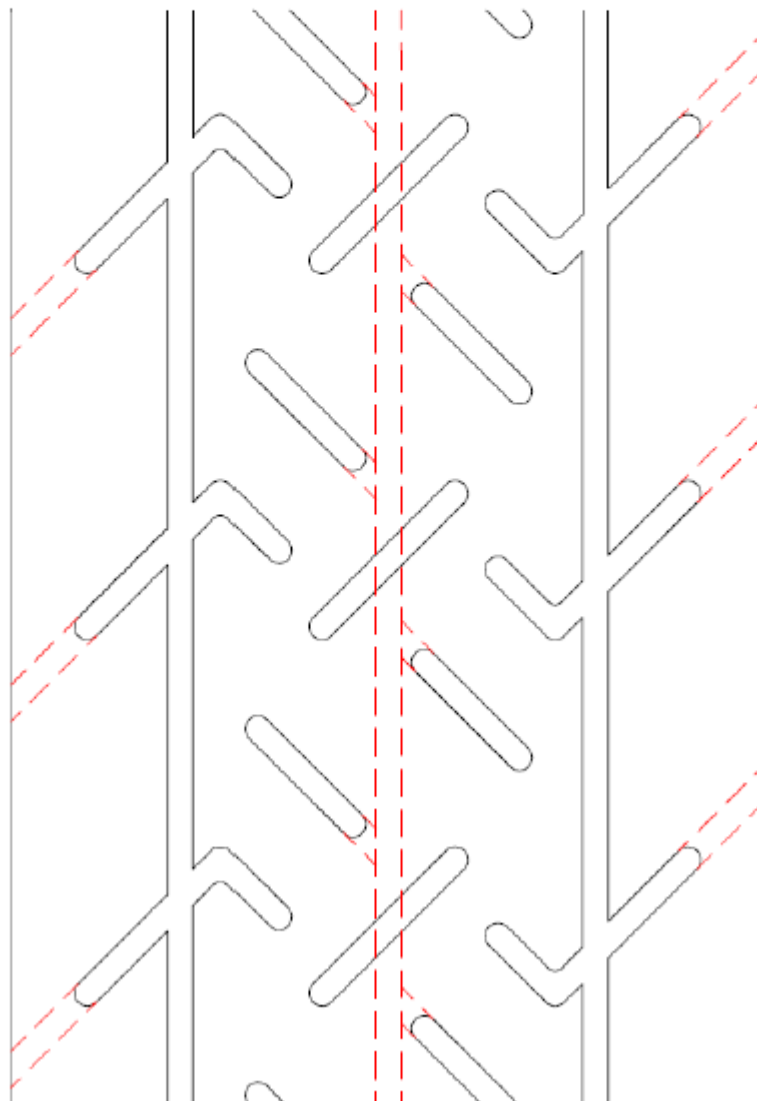




**Tarmac Rally tire hand cut pattern for wet**

(Cut red marked area)

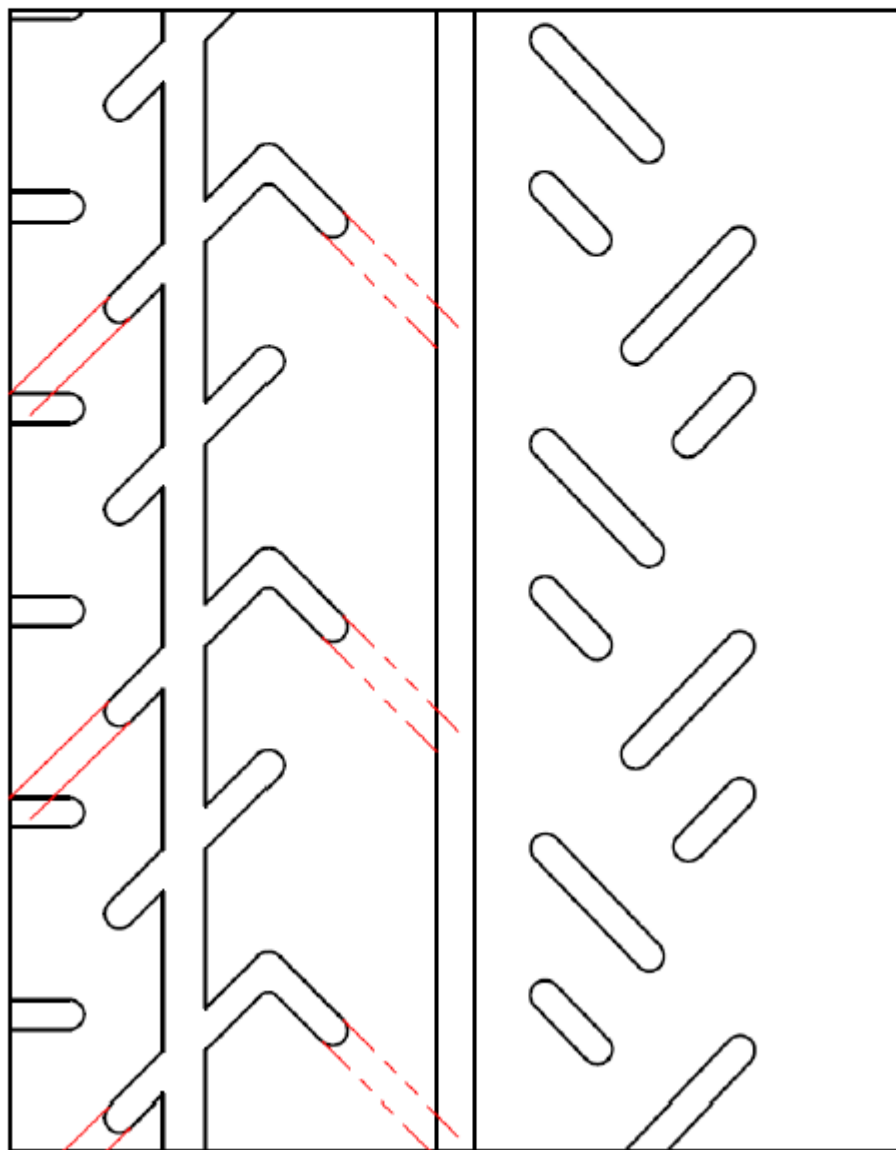
195/50R13 (200/530R13), 225/45R13 (220/530R13),  
195/50R15, 225/45R15





Tarmac Rally tire hand cut pattern for wet  
(Cut red marked area)  
195/50R16, 195/50R17, 225/40R18

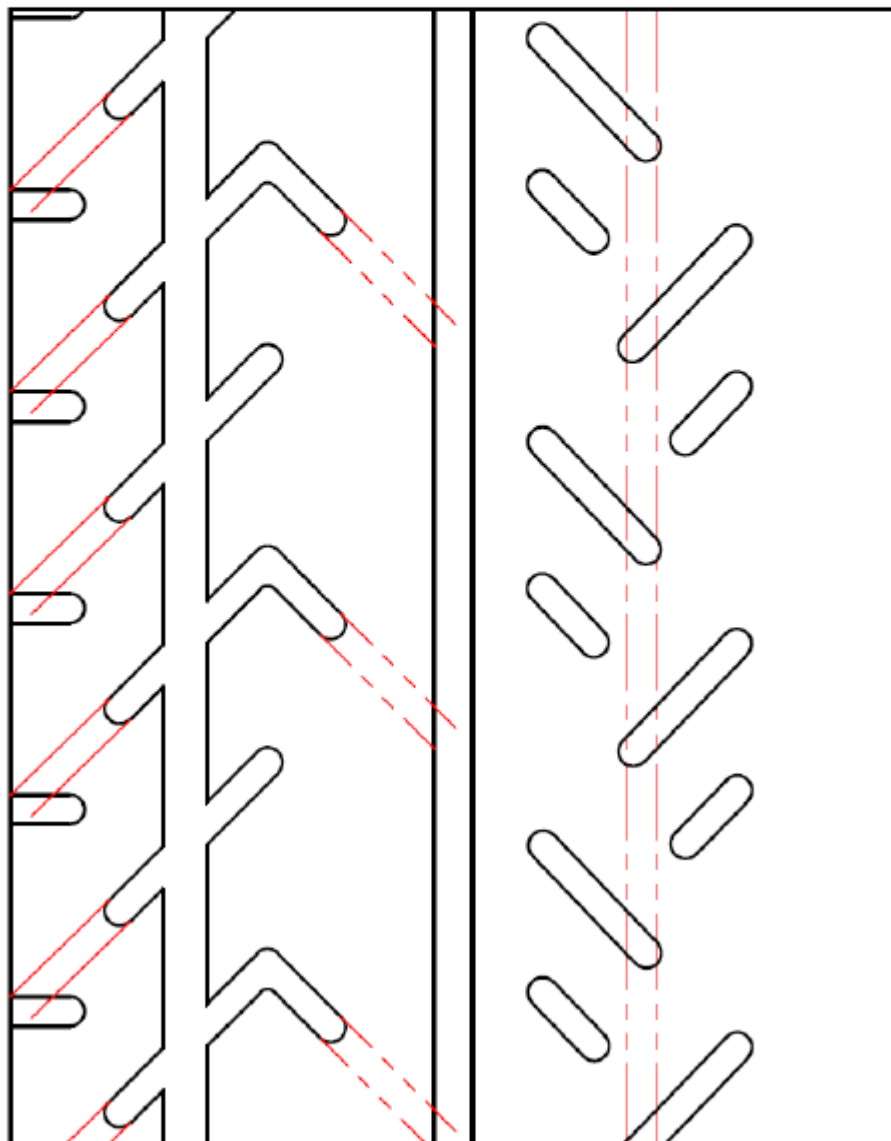
### Light Rain





Tarmac Rally tire hand cut pattern for wet  
(Cut red marked area)  
195/50R16, 195/50R17, 225/40R18

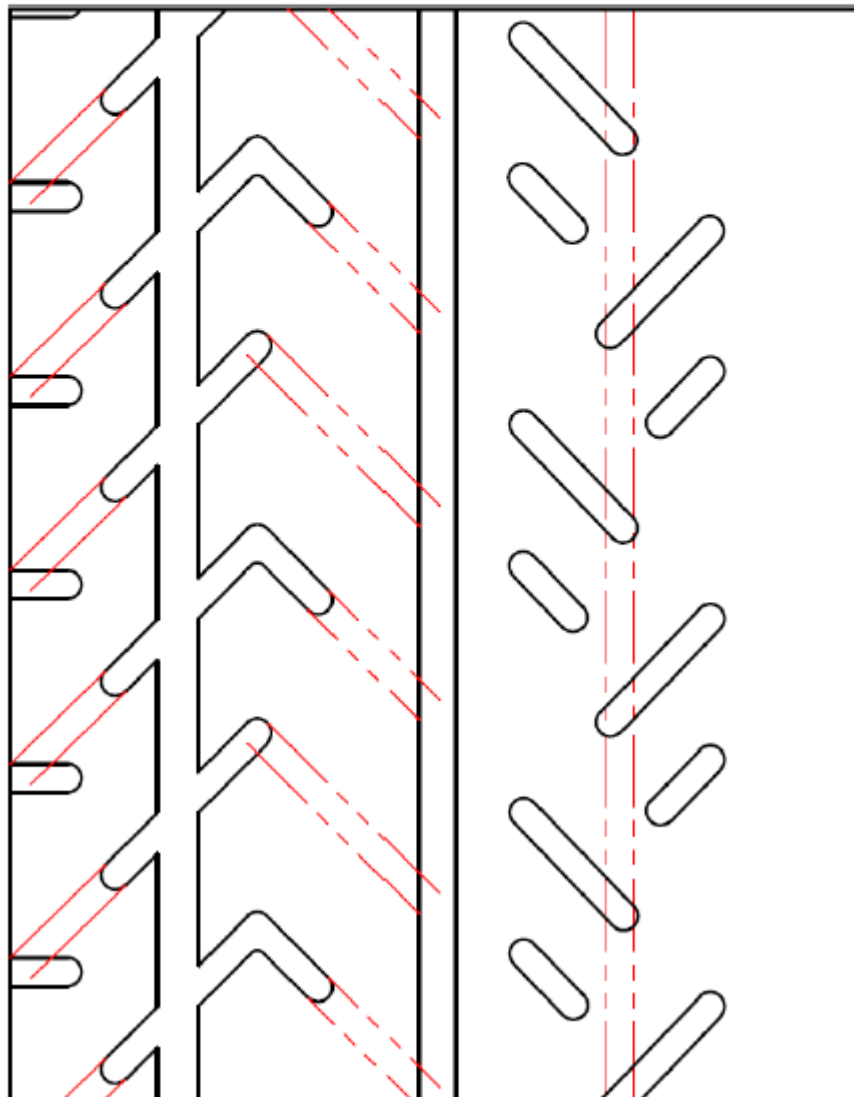
**Medium Rain**





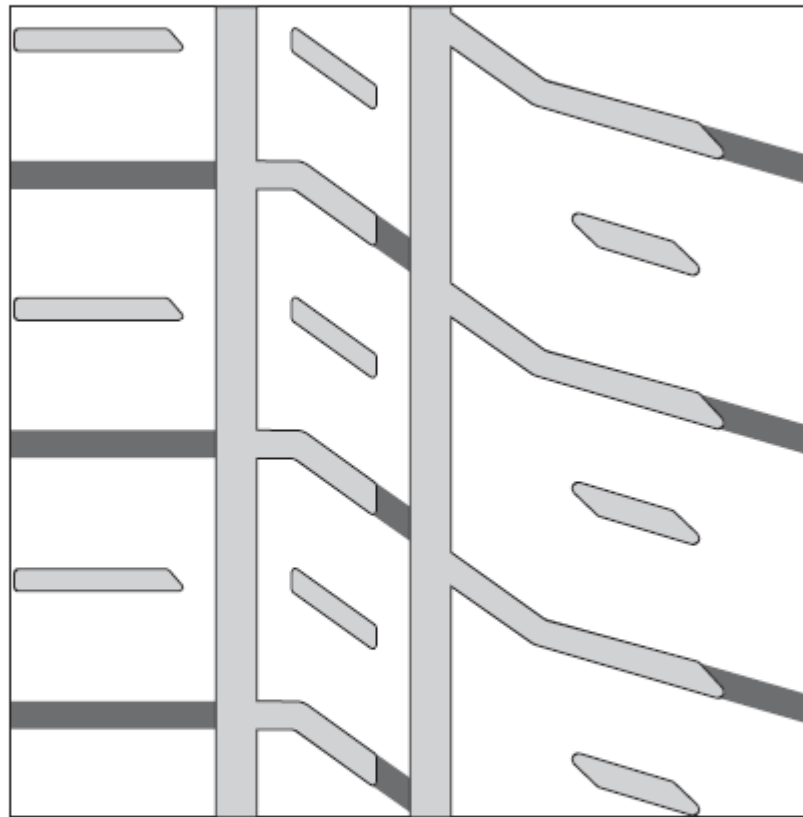
Tarmac Rally tire hand cut pattern for wet  
(Cut red marked area)  
195/50R16, 195/50R17, 225/40R18


### Heavy Rain



## EXTREME VRC 27/66-18

Hand-cut pattern: damp

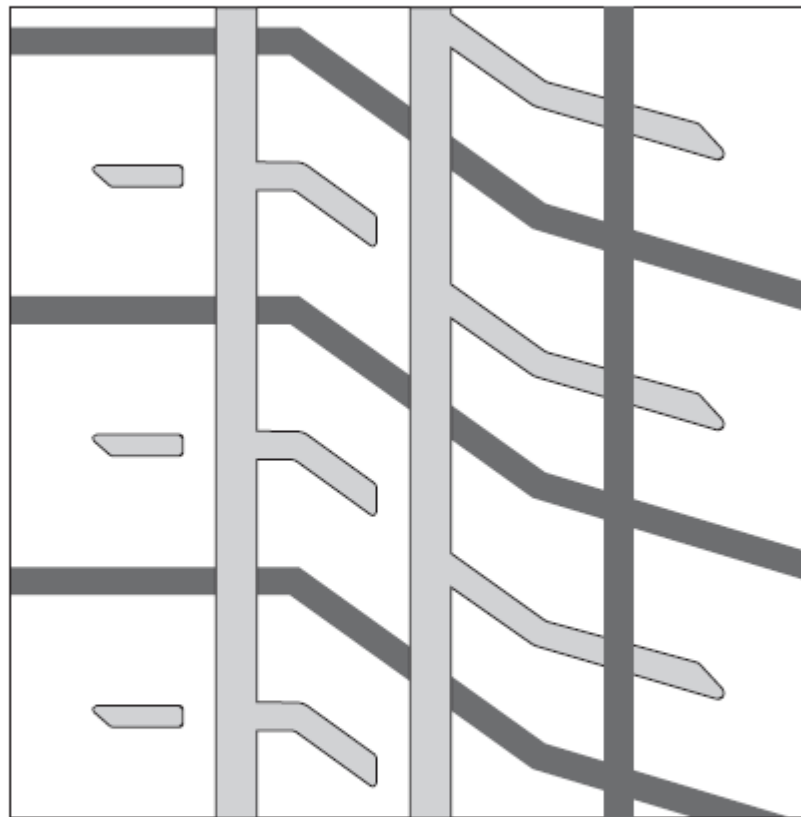



 groove: 9mm width; 6,5mm depth

Scale: 1:2

## EXTREME VRC 27/66-18

Hand-cut pattern: extra wet



 groove: 9mm width; 6,5mm depth

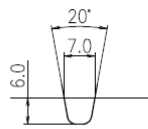
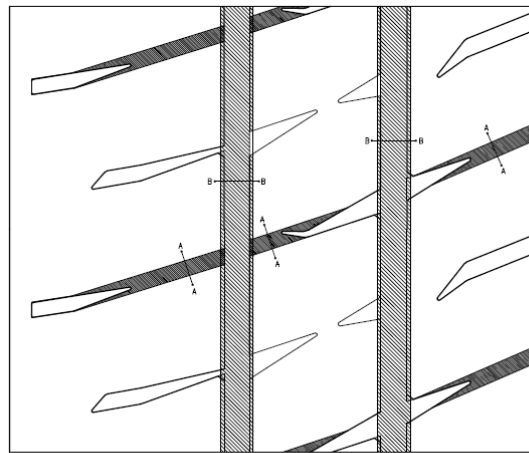
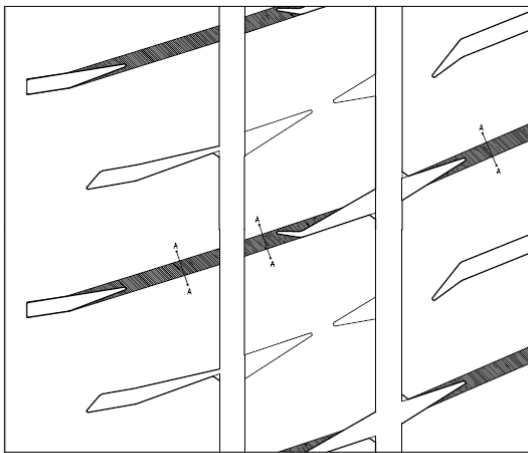
Scale: 1:2



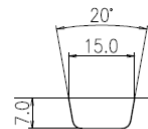


### RAIN CUT

### HEAVY RAIN CUT



A-A

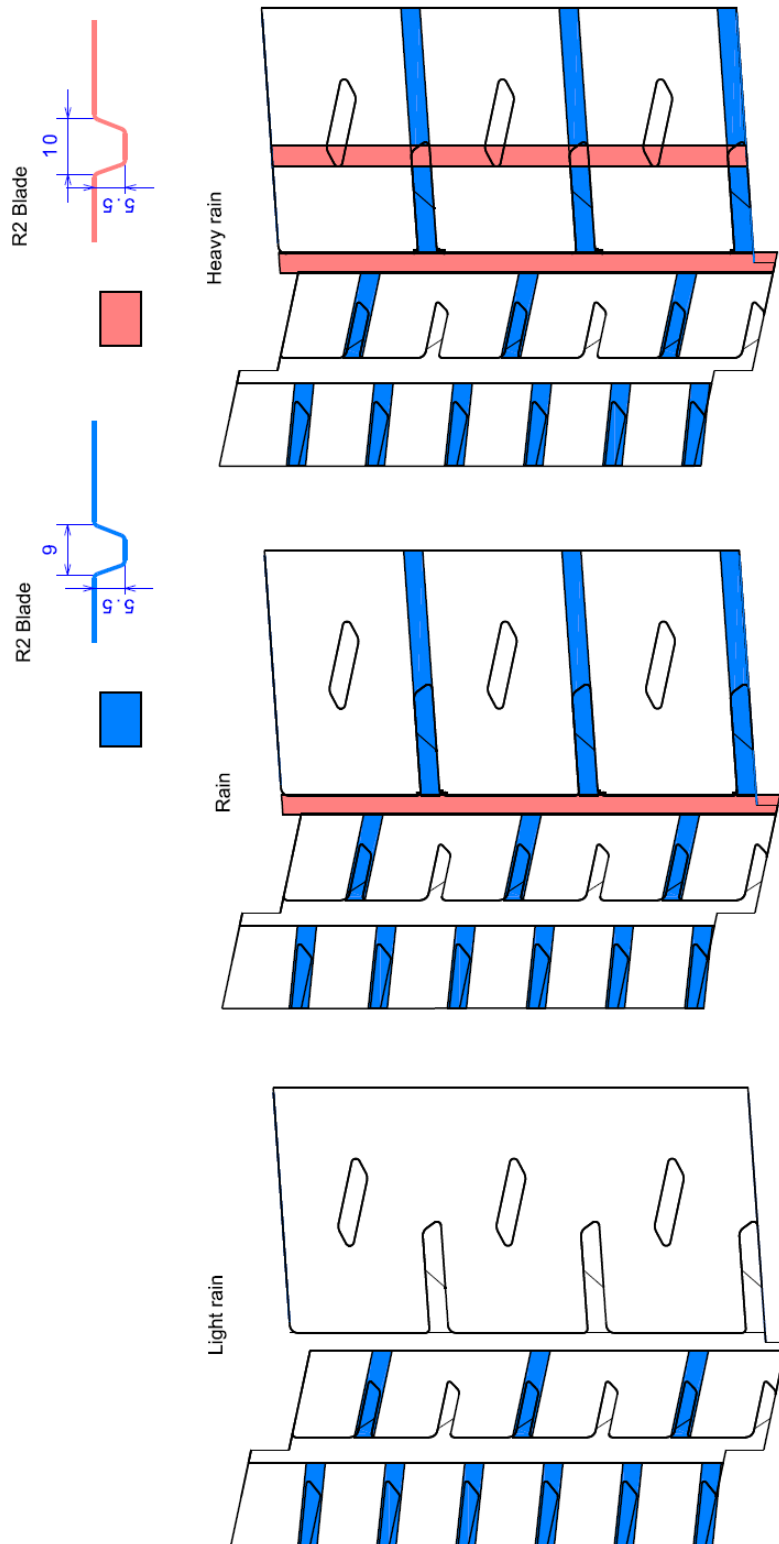


B-B

CUT WET PATTERN	 SUMITOMO RUBBER INDUSTRIES, LTD. MOTOR SPORTS DEPARTMENT	Size • Pattern
		210/650R18
		190/625R17
		DIREZZA 301R

# HANKOOK Ventus Z215 Recut guide

Sizes: 210/650R18, 190/630R17, 190/600R16



## HANKOOK Ventus Z205 Recut guide

Sizes: 210/650R18, 210/625R17, 180/625R17, 180/600R16, 200/580R15, 190/580R15, 170/560R14

