



# 2019 List of Asphalt Eligible Tyres



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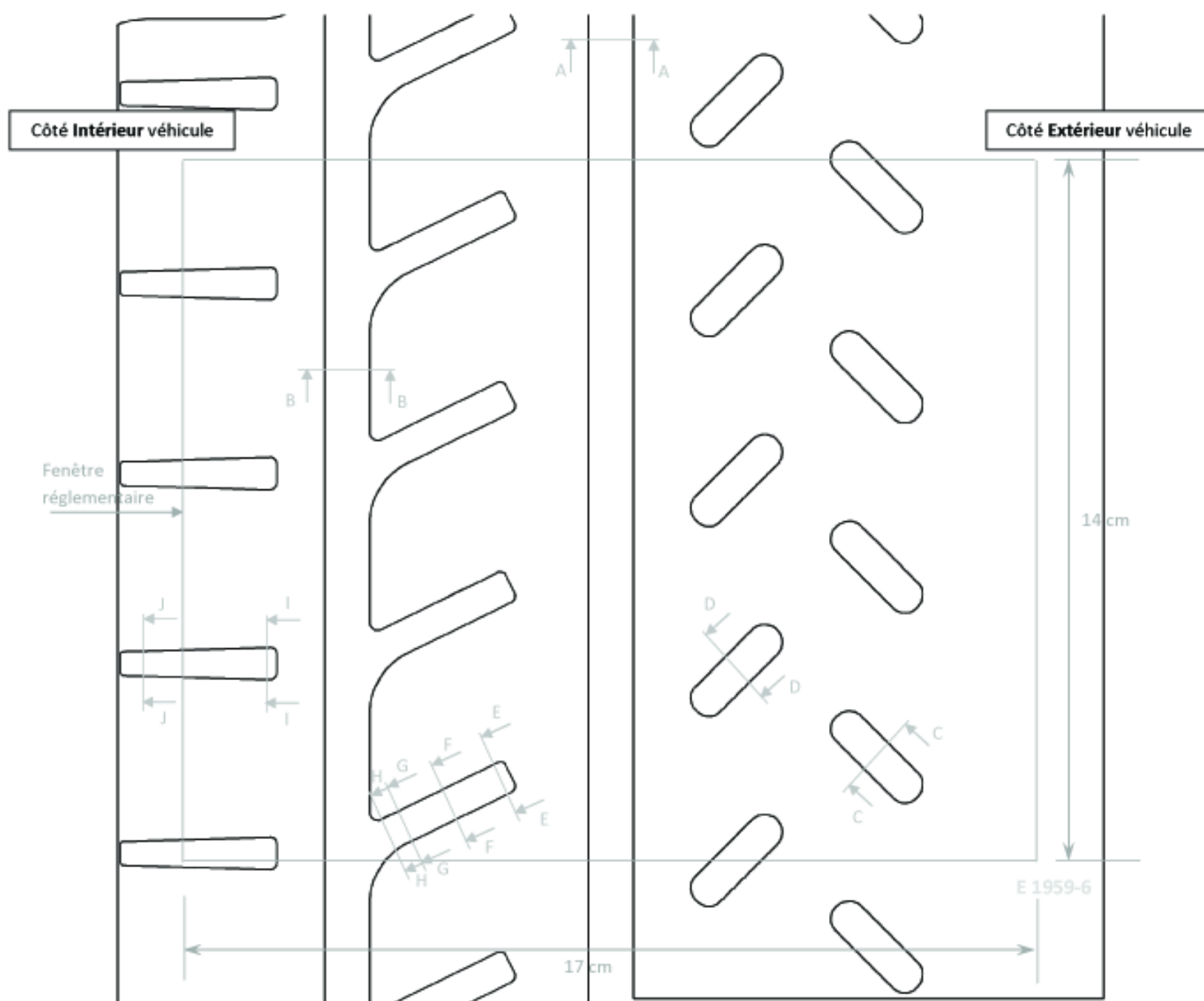


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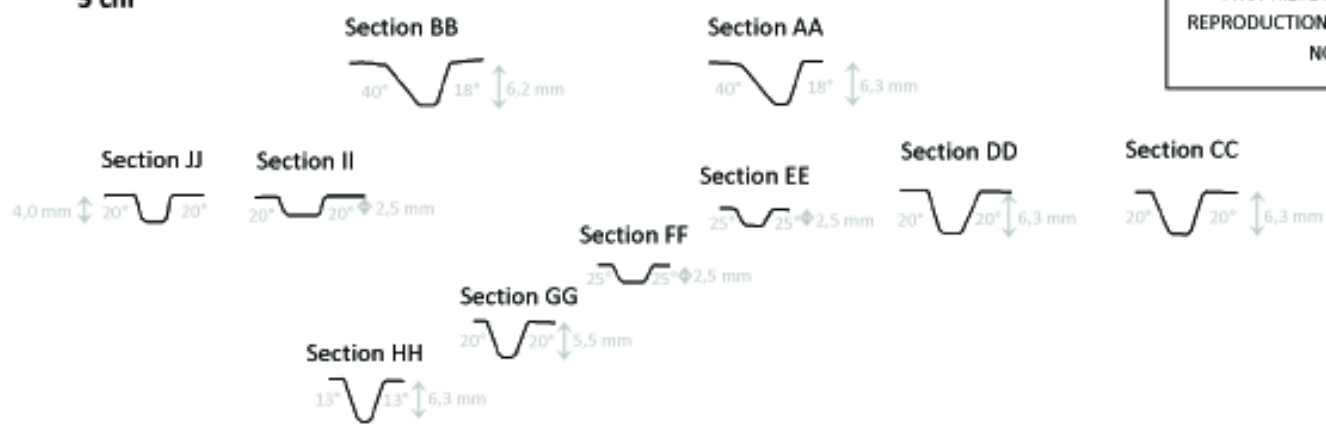
**Domaine : Rallye Asphalte**  
**Dimension : 20 / 65 – 18**  
**Plan de la sculpture : Pilot Sport R**  
**Entaillement Surfamique dans fenêtre réglementaire : 21,51 %**

Clermont-Ferrand le 05/12/2013



**Echelle 1:1**  
 5 cm

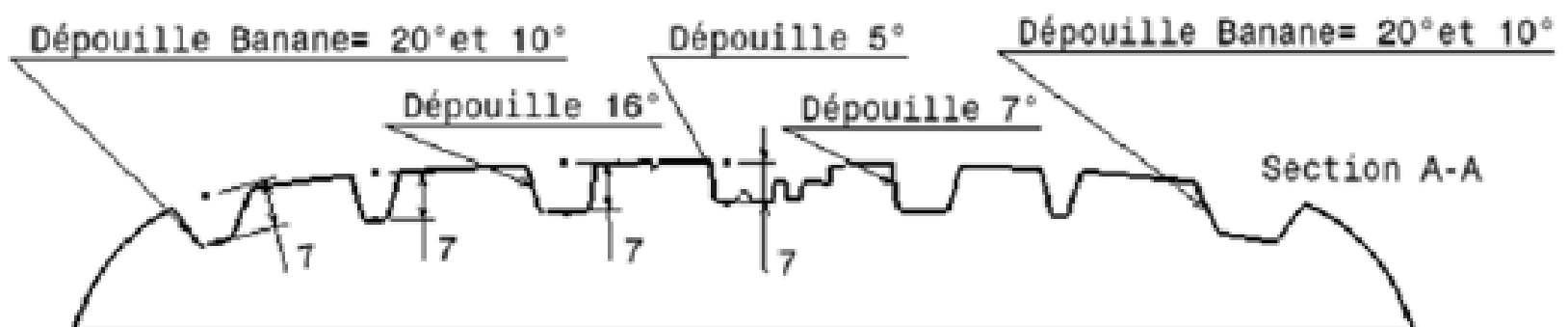
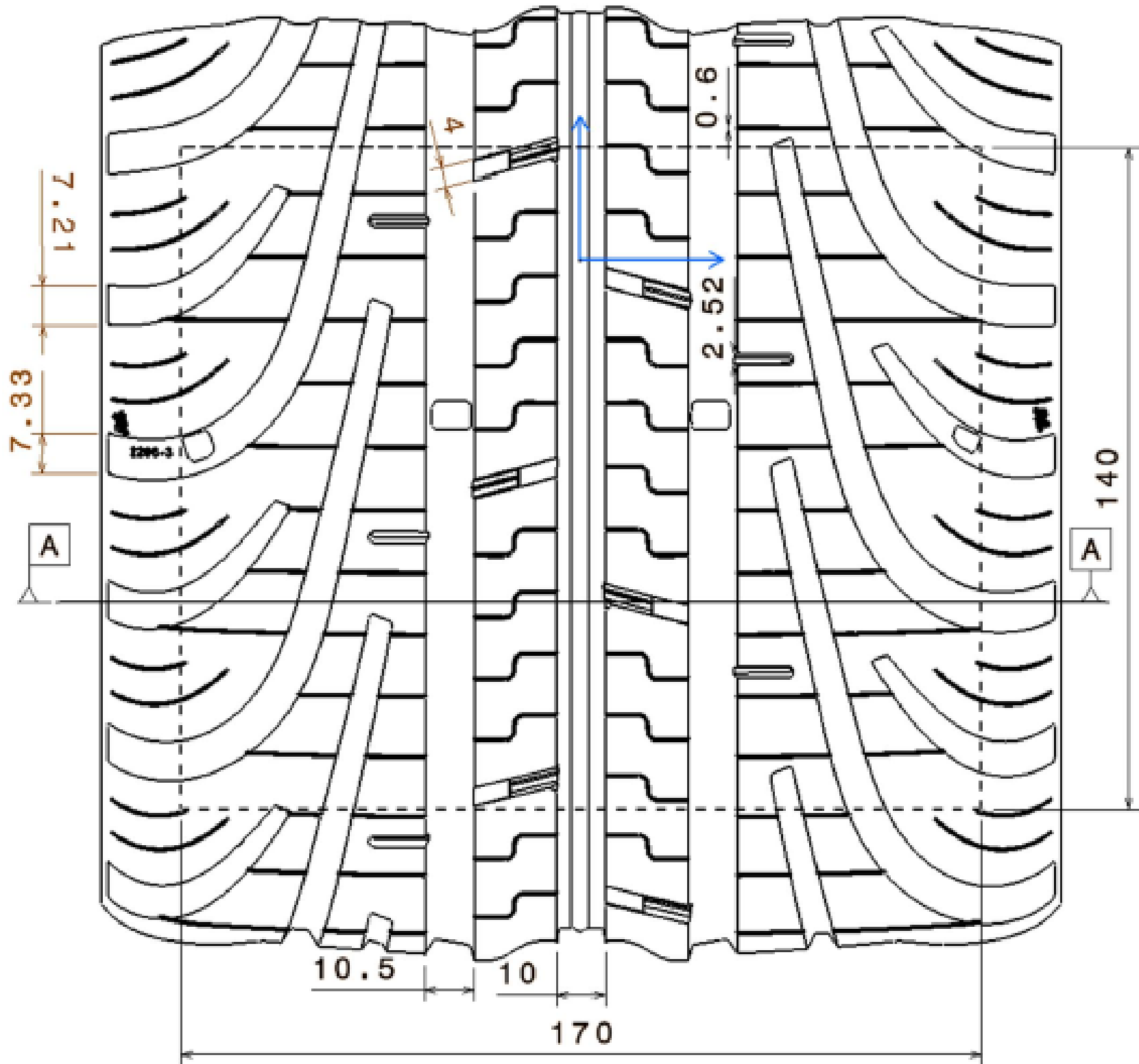
MANUFACTURE FRANCAISE DES PNEUMATIQUES  
 MICHELIN CLERMONT-FERRAND  
 PROPRIETE EXCLUSIVE DE NOTRE SOCIETE  
 REPRODUCTION OU UTILISATION INTERDITE SANS  
 NOTRE ACCORD ECRIT





Clermont-Ferrand le : 15/12/2016  
Domaine : Rallye Asphalt WRC Wet  
Dimension : 18 / 65 - 18  
Plan de la sculpture : Pilot Sport FW3  
Entaillement Surfacique sur entaille  $\geq 5,5$ mm de profondeur : 27.5%

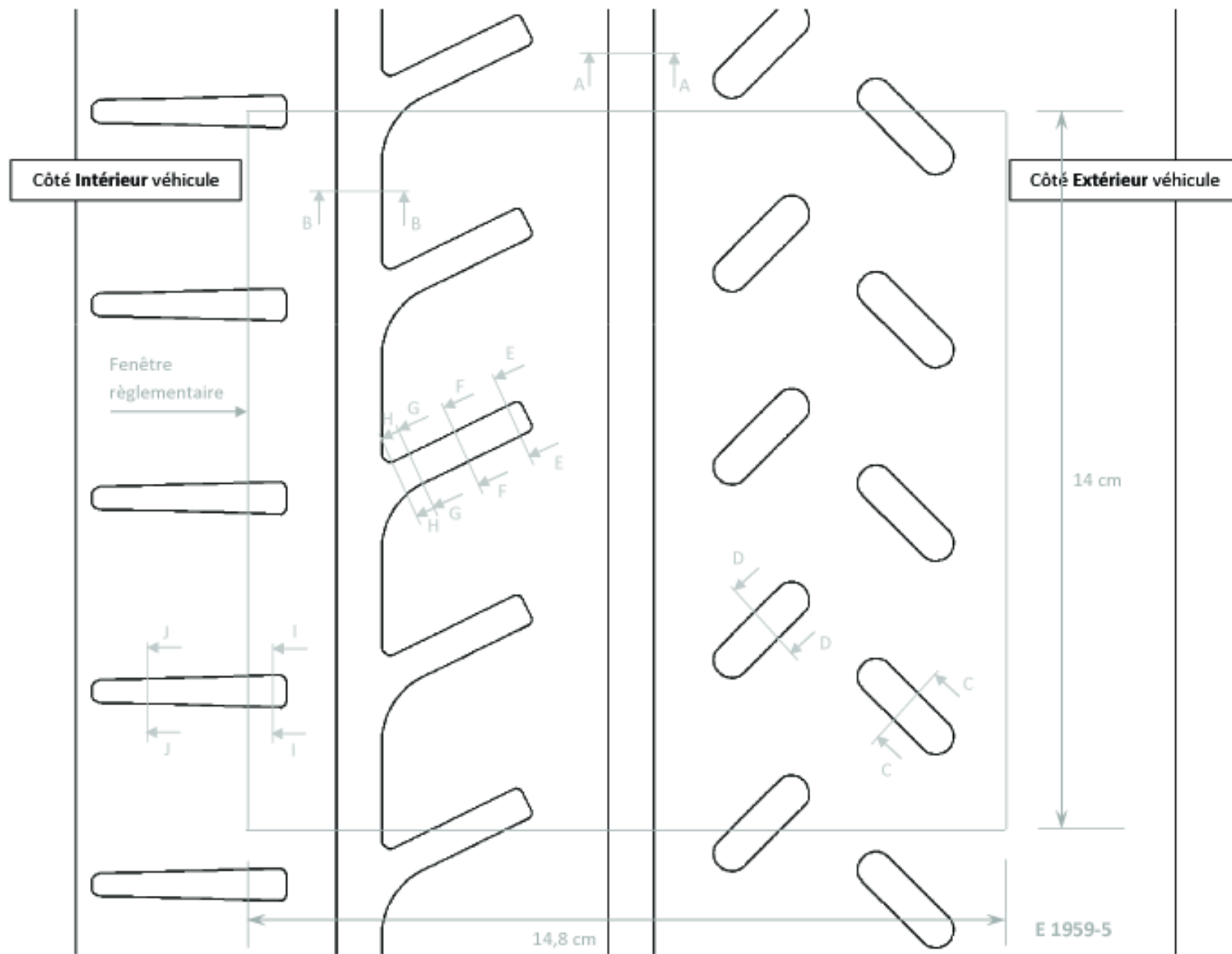
MANUFACTURE FRANCAISE DES PNEUMATIQUES  
MICHELIN CLERMONT-FERRAND  
PROPRIETE EXCLUSIVE DE NOTRE SOCIETE  
REPRODUCTION OU UTILISATION INTERDITE SANS  
NOTRE ACCORD ECRIT



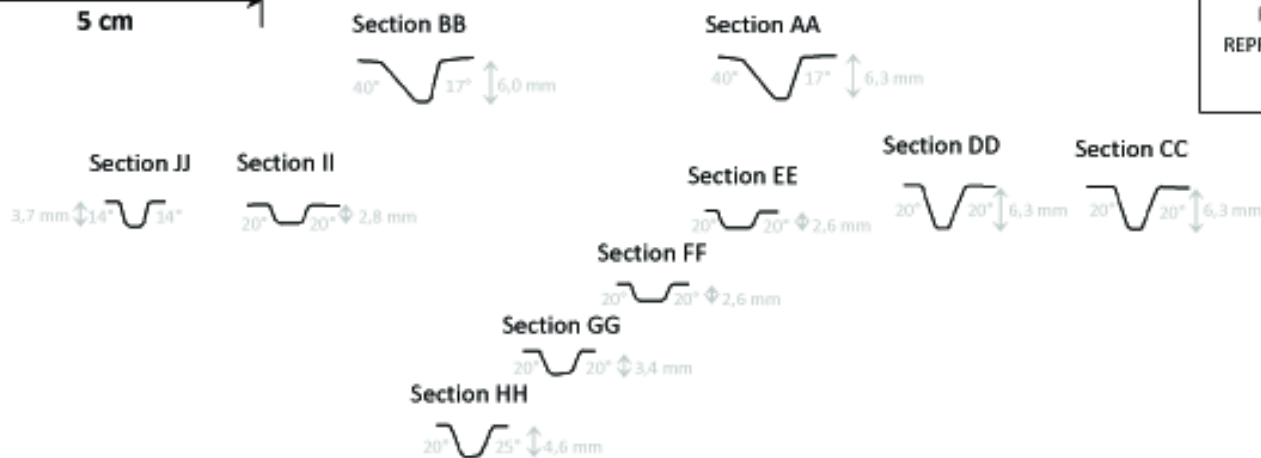


Domaine : Rallye Asphalte  
 Dimension : 19 / 63 – 17  
 Plan de la sculpture : Pilot Sport R  
 Entaillement surfacique sur fenêtre réglementaire : 21,51 %

Clermont-Ferrand le 05/12/2013



**Echelle 1:1**  
 5 cm

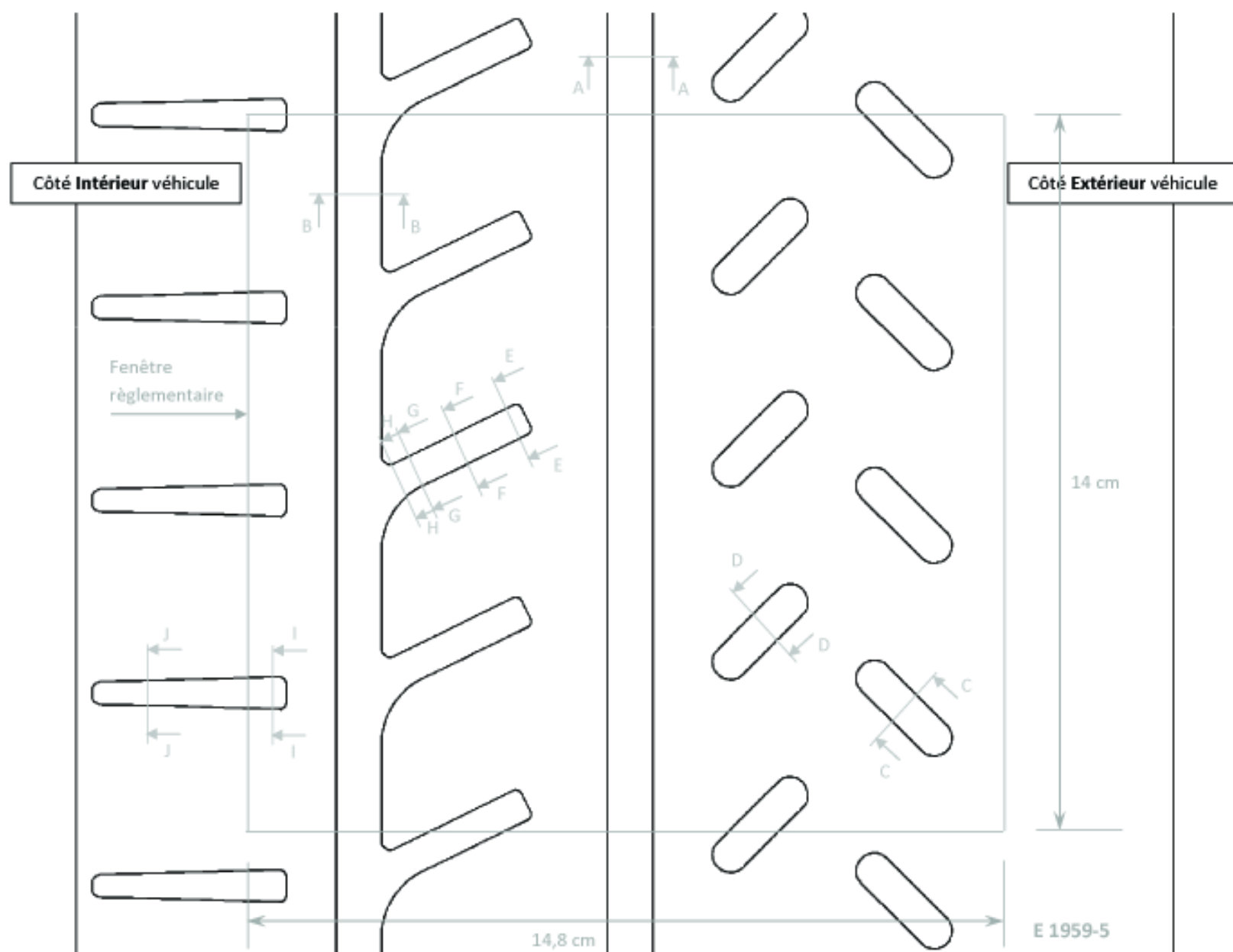


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Domaine : Rallye Asphalte  
 Dimension : 19 / 60 – 16  
 Plan de la sculpture : **Pilot Sport R**  
 Entaillement surfacique sur fenêtre réglementaire : **21,51 %**

Clermont-Ferrand le 05/12/2013



**Echelle 1:1**  
 5 cm

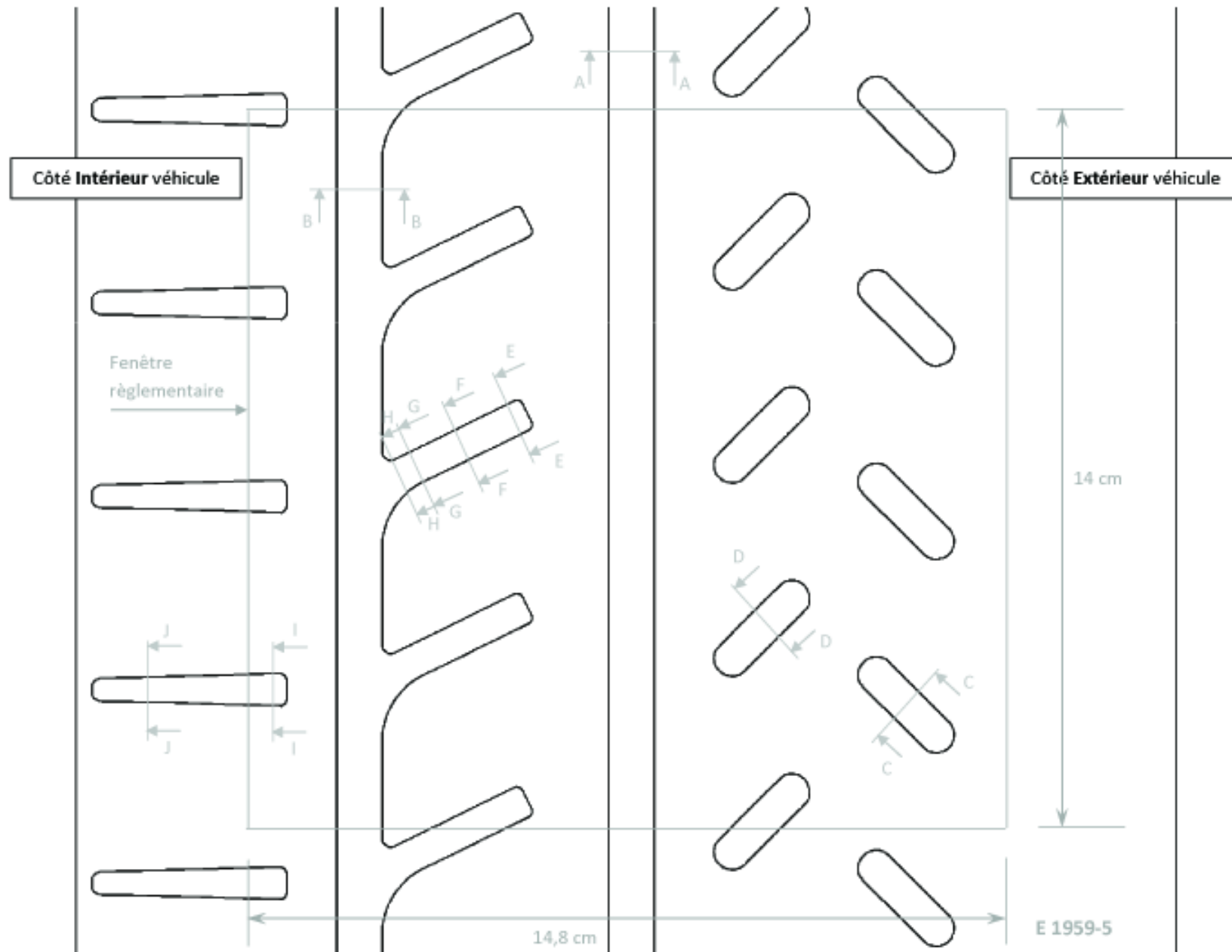


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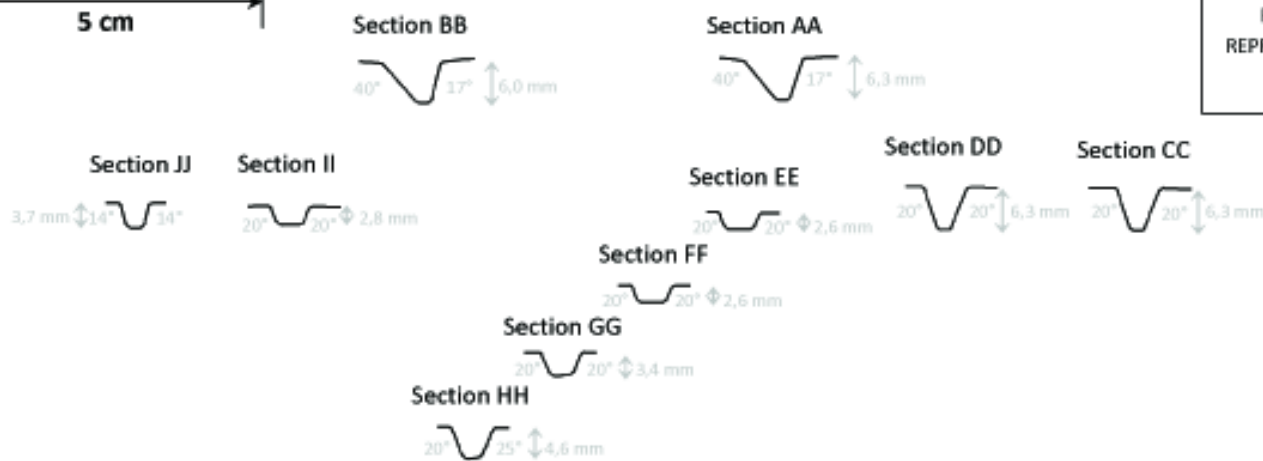


Domaine : Rallye Asphalte  
 Dimension : **19 / 58 – 15**  
 Plan de la sculpture : **Pilot Sport R**  
 Entaillement surfacique sur fenêtre réglementaire : **21,51 %**

Clermont-Ferrand le 05/12/2013



**Echelle 1:1**  
5 cm

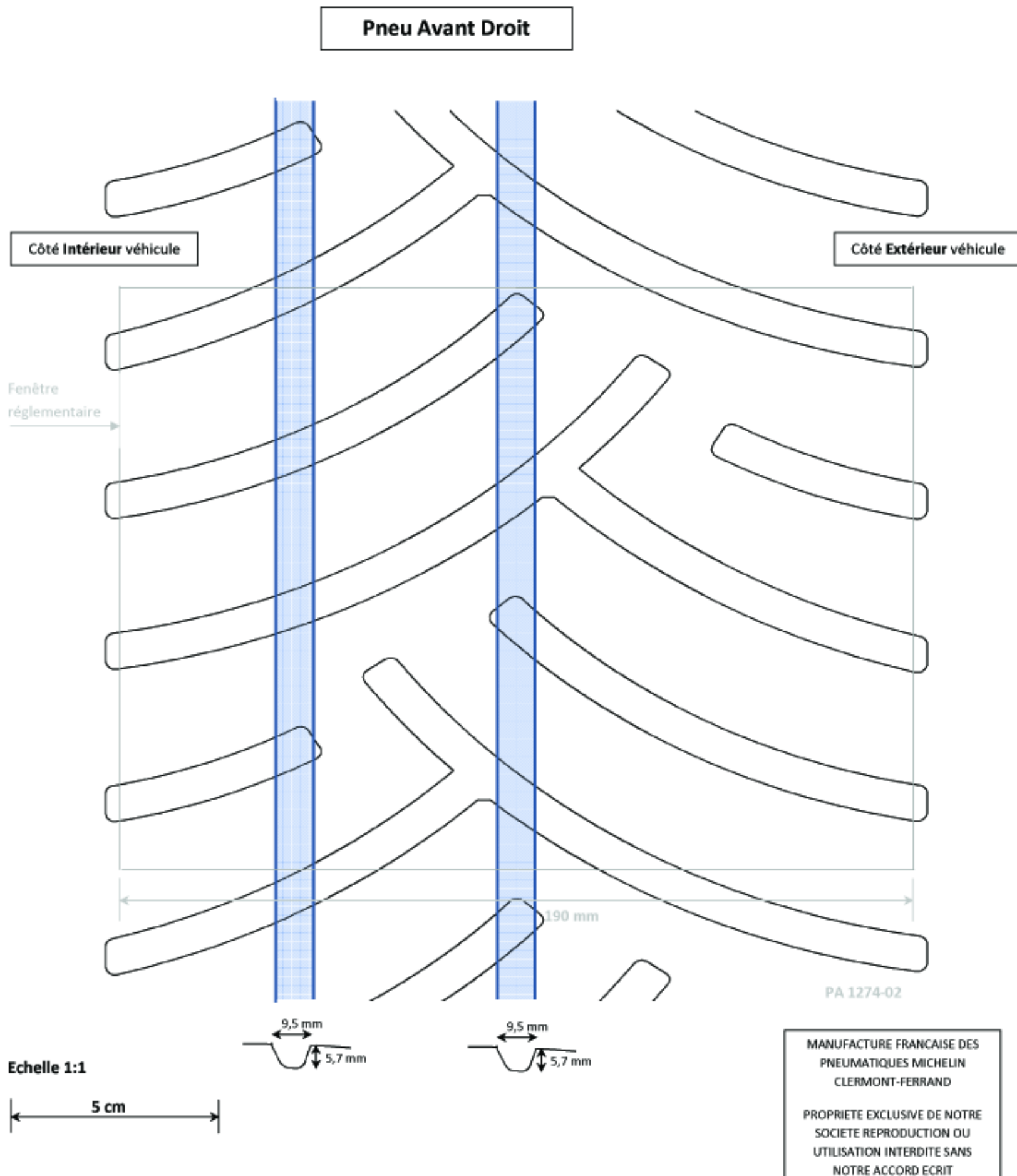


MANUFACTURE FRANCAISE DES PNEUMATIQUES  
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Domaine : Rallye Asphalte  
Dimension : 24 / 65 - 18  
Entaillement surfacique sur une fenêtre de 190 mm de large : 32,8 %

Clermont-Ferrand le 18/12/2013



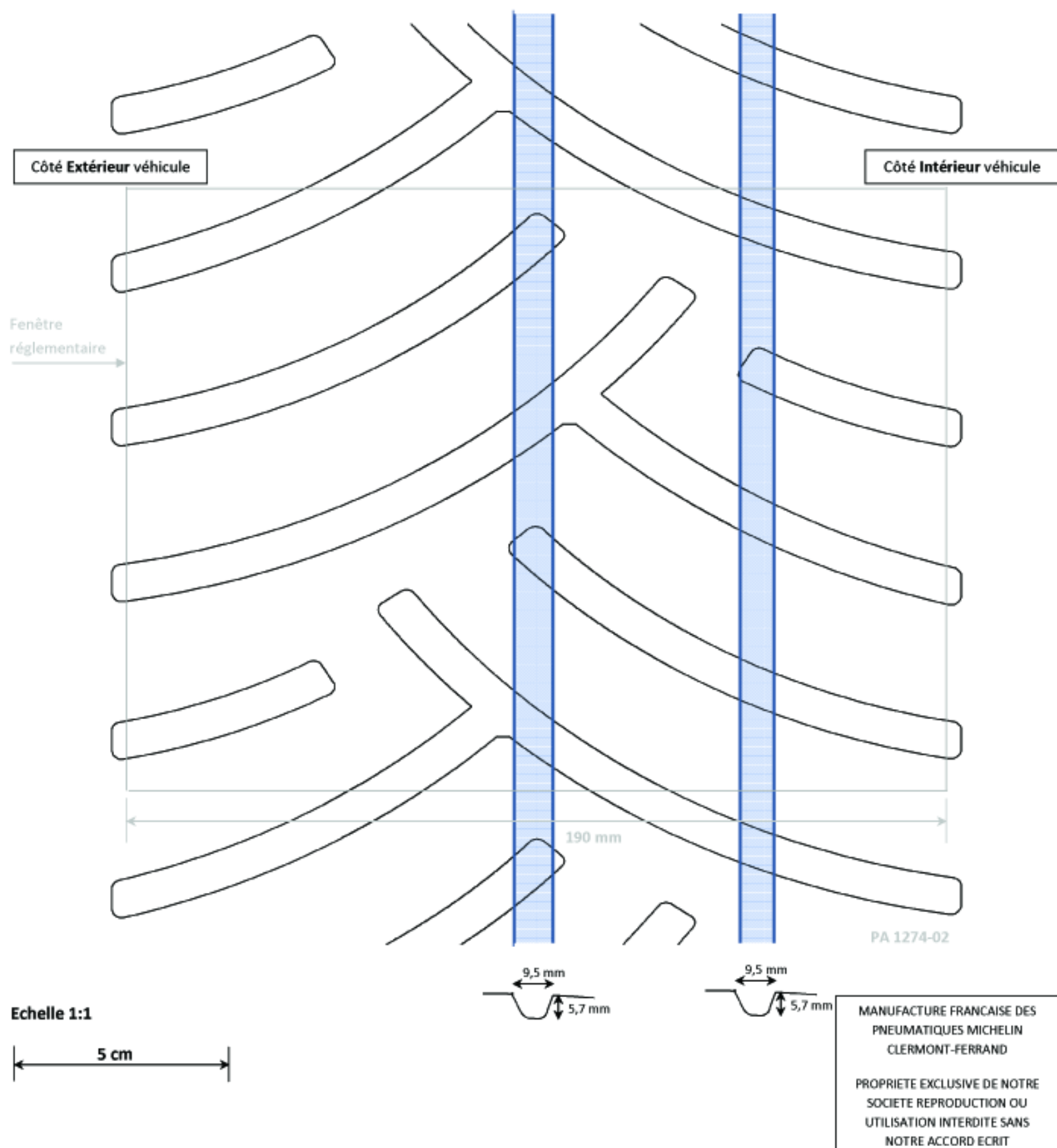
Circonférential grooves are hand-cutted.



Domaine : Rallye Asphalte  
Dimension : 24 / 65 - 18  
Entaillement surfacique global : 32,8 %

Clermont-Ferrand le 18/12/2013

## Pneu Avant Gauche



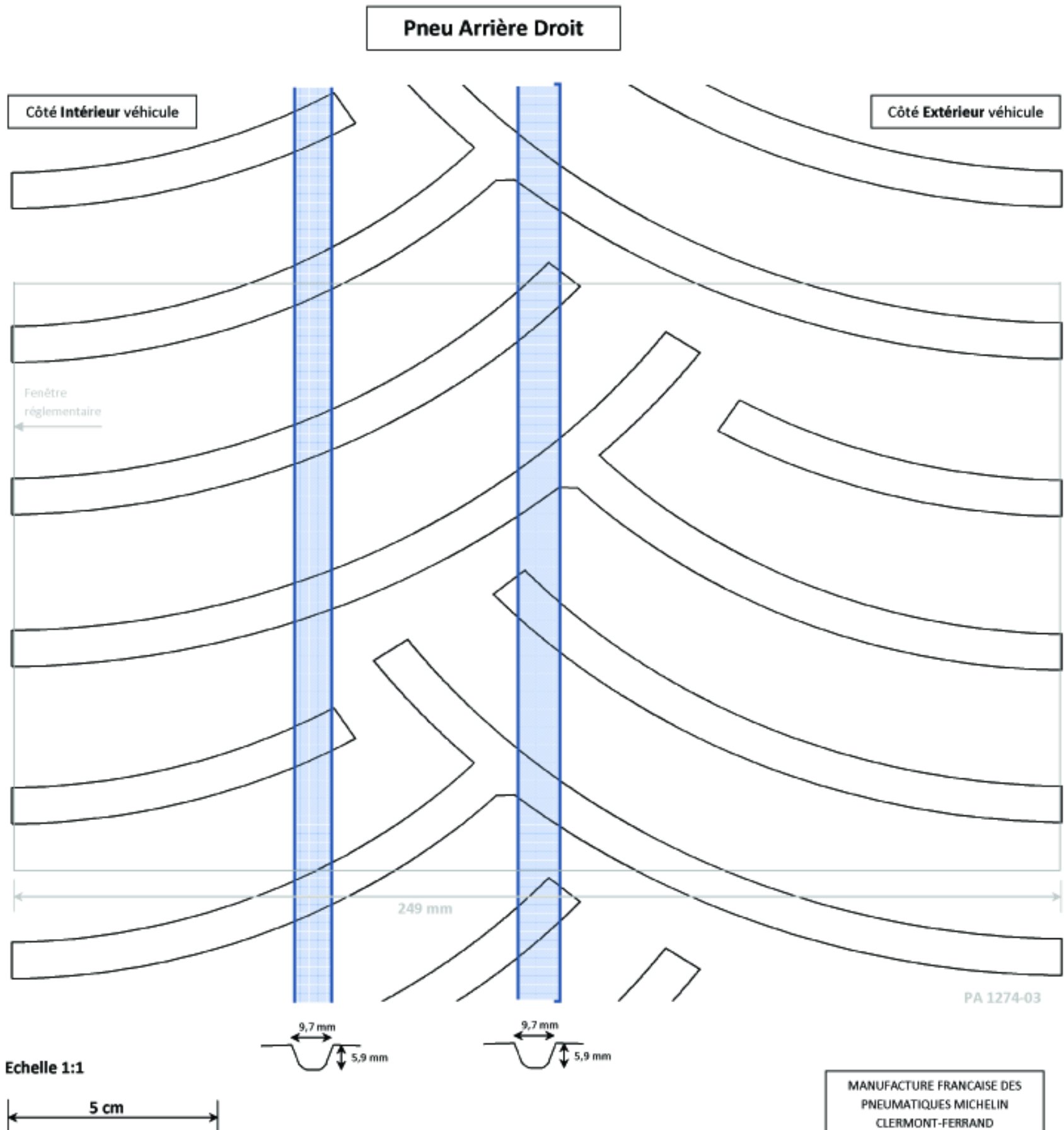
Circonférential grooves are hand-cutted.





Domaine : **Rallye Asphalte**  
Dimension : **29 / 65 - 18**  
Entaillement surfacique sur fenêtre de 249 mm de large : **31 %**

Clermont-Ferrand le 18/12/2013

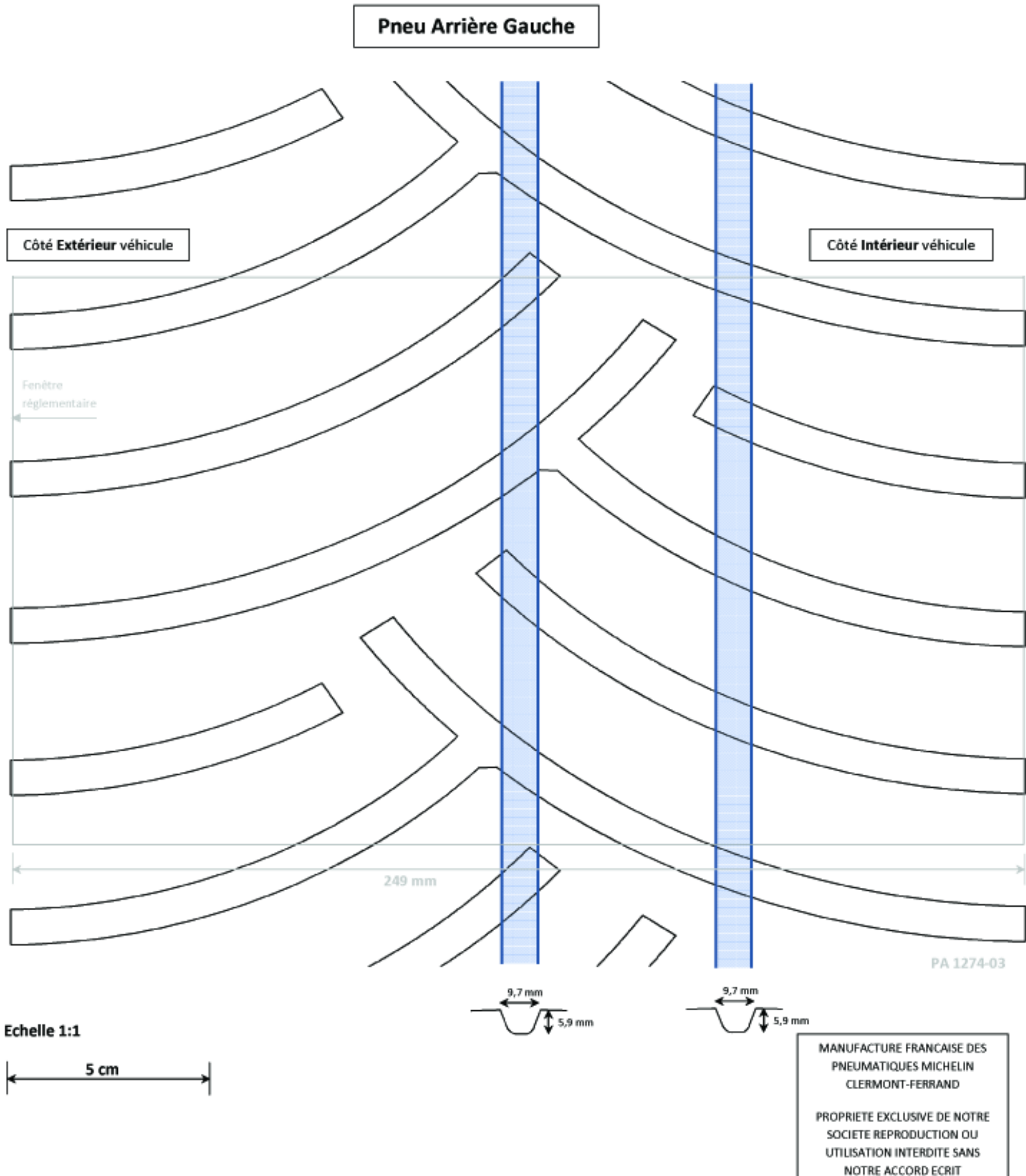


Circonférential grooves are hand-cutted.



Domaine : **Rallye Asphalte**  
Dimension : **29 / 65 – 18**  
Entaillement surfacique sur fenêtre de 249 mm de large : **31 %**

Clermont-Ferrand le 18/12/2013



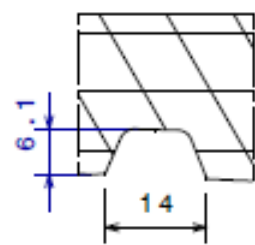
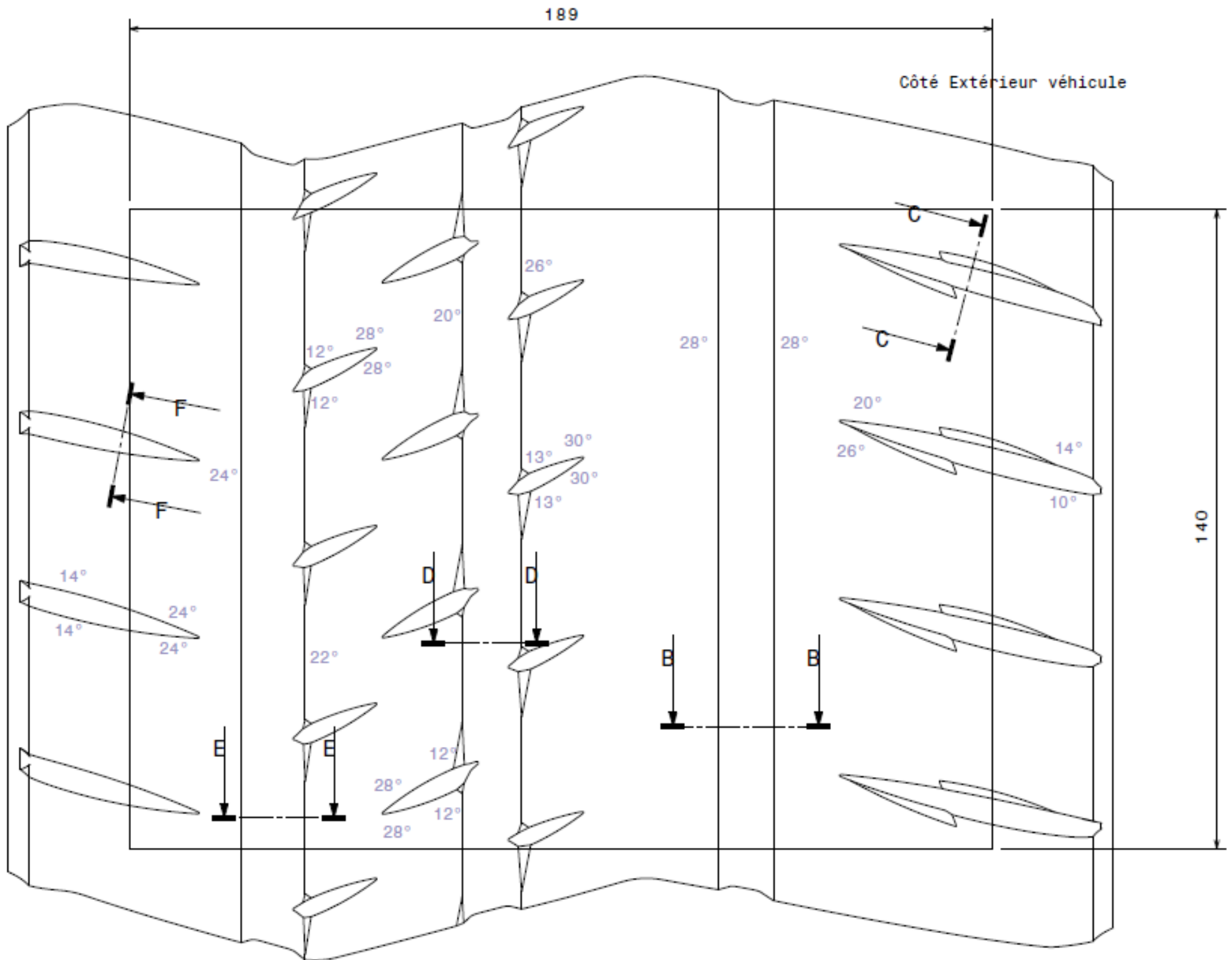
Circonfential groves are hand-cutted.

# RGT only – 24/65-18

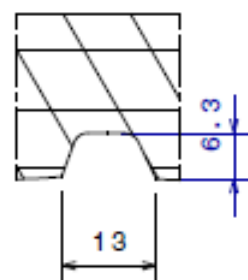


Domaine : Rallye Asphalte  
 Dimension : 24/65 R18  
 Plan de la sculpture : Pilot Sport R  
 Entaillement Surfacique dans fenetre règlementaire : 21.7 % à 1.8 mm d'usure  
 : 17 % à 5.5 mm d'usure

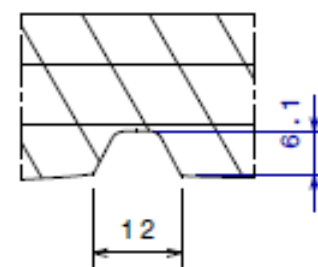
Clermont-Ferrand le 28/02/2018



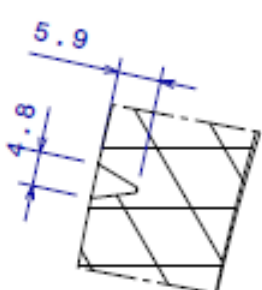
Coupe E-E



Coupe D-D

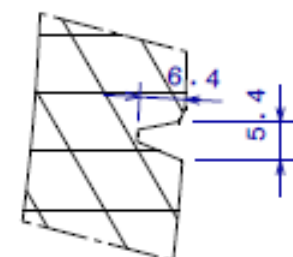


Coupe B-B



Coupe F-F

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 SANS NOTRE ACCORD ECRIT

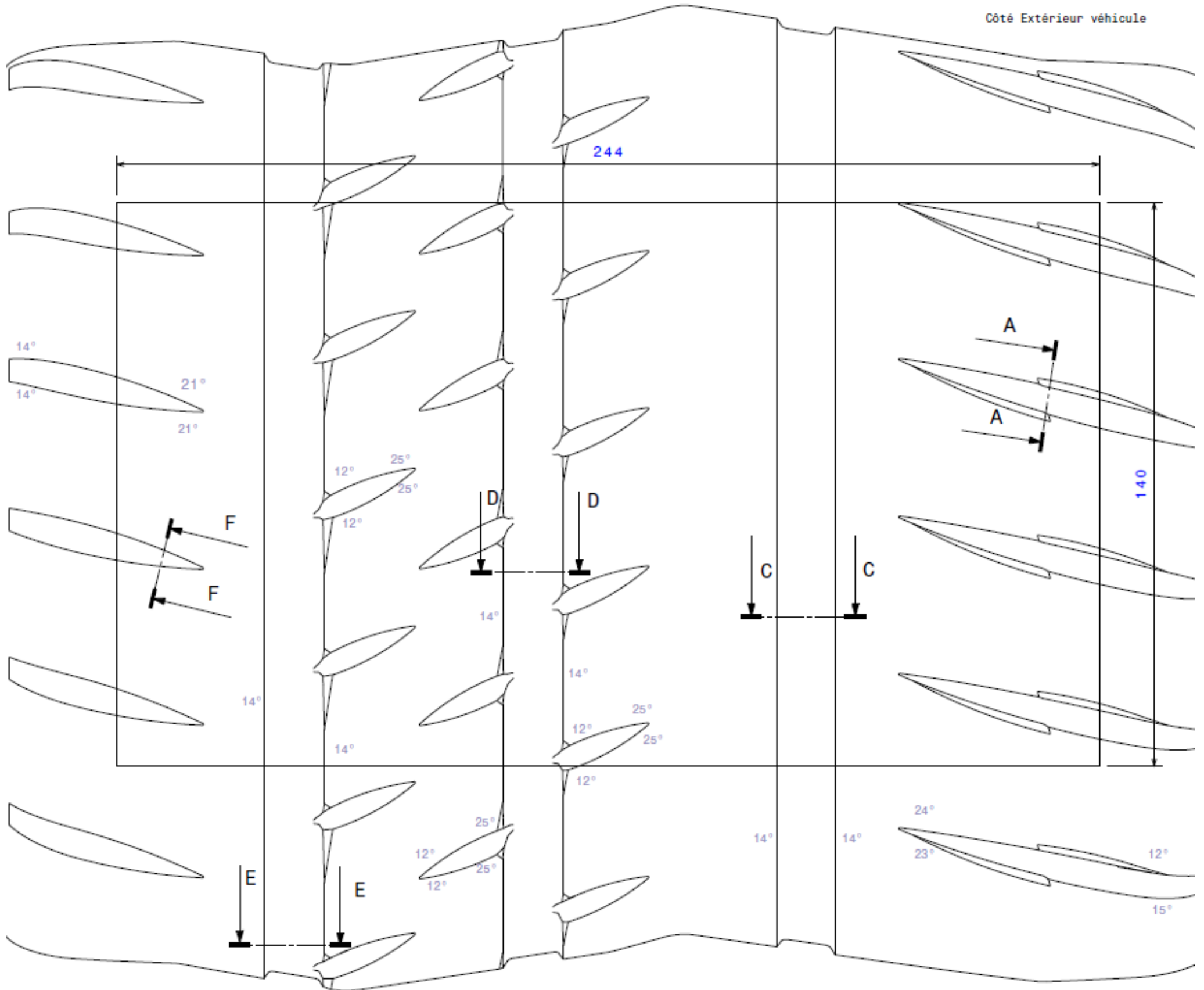


Coupe C-C

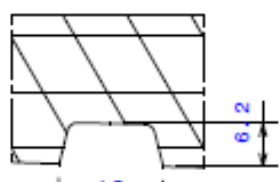


Domaine : Rallye Asphalte  
 Dimension : 29/65 R18  
 Plan de la sculpture : Pilot Sport R  
 Entaillement Surfamique dans fenêtre réglementaire : 22.6 % à 1.8 mm d'usure  
 : 19.2 % à 5.5 mm d'usure

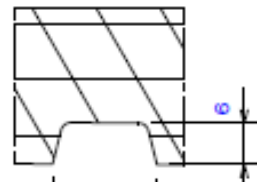
Clermont-Ferrand le 28/02/2018



Coupe F-F



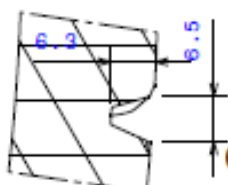
Coupe E-E



Coupe D-D



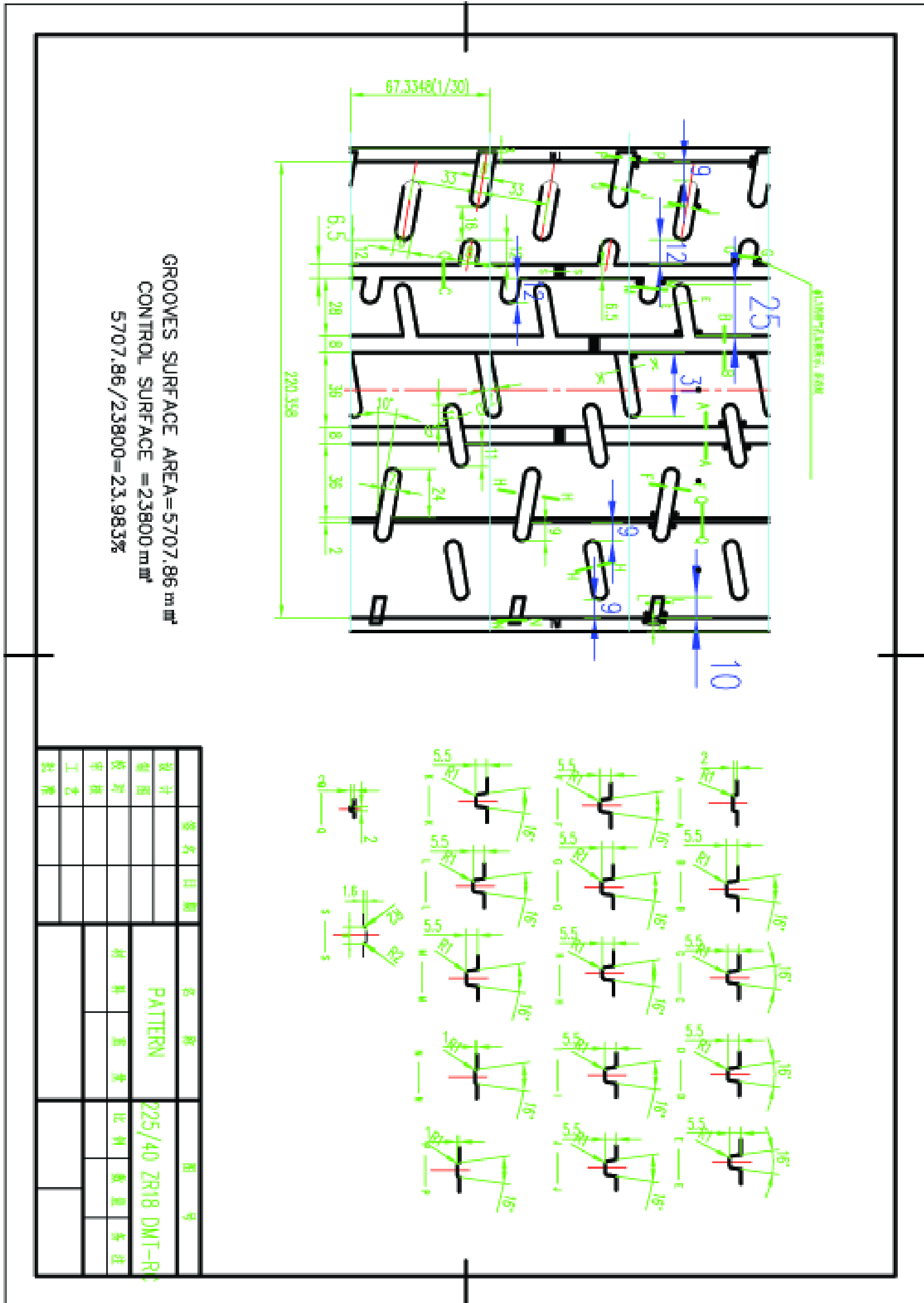
Coupe C-C



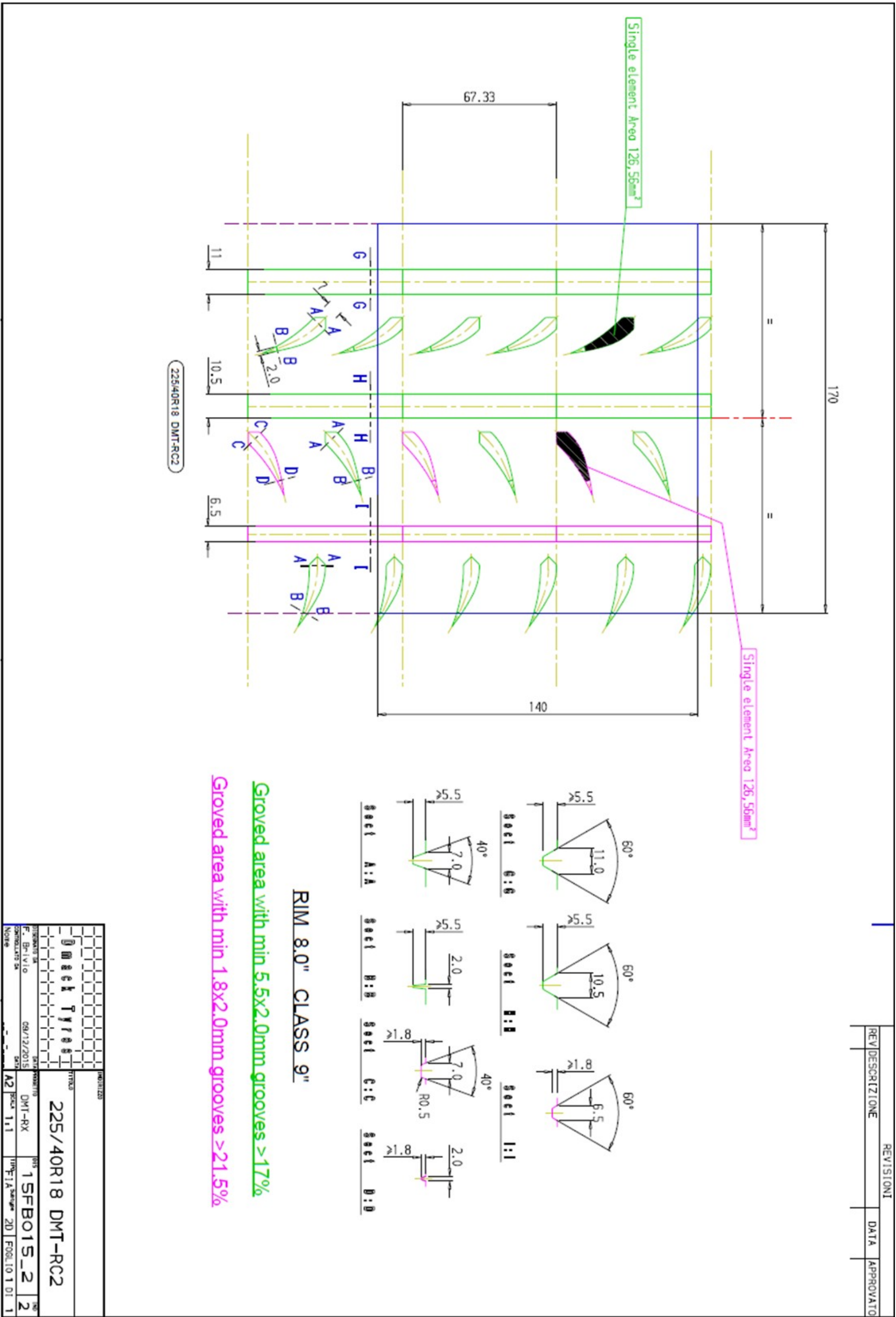
Coupe A-A

MANUFACTURE FRANCAISE DES PNEUMATIQUES MICHELIN  
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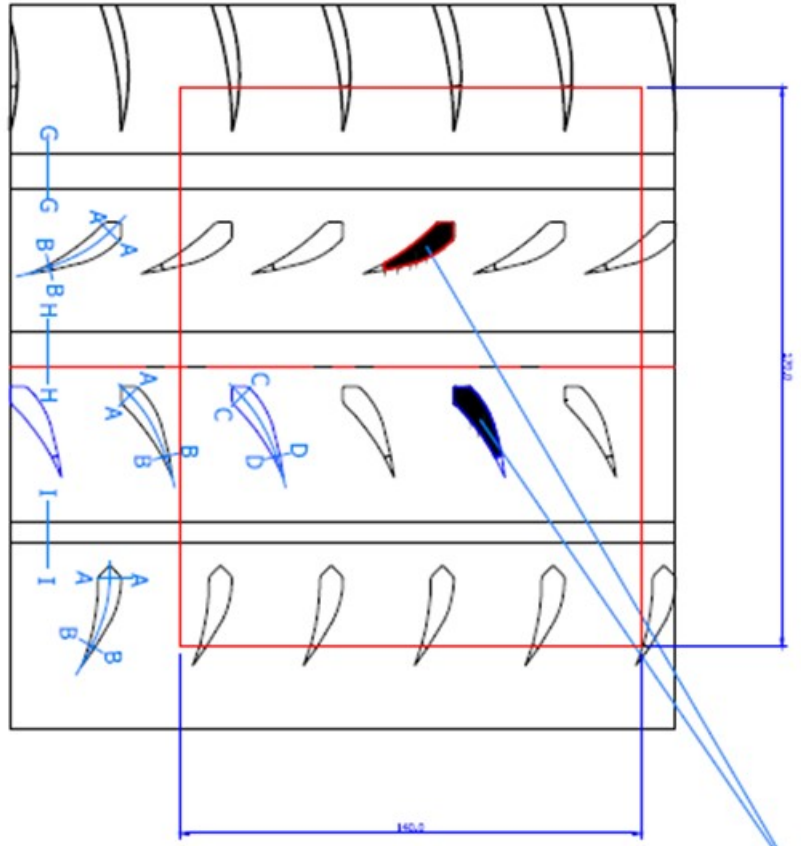
## 18" – 225/40-18



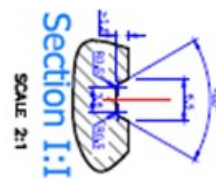
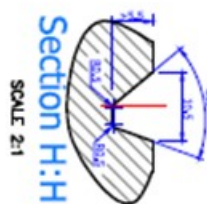
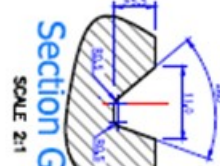
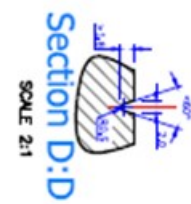
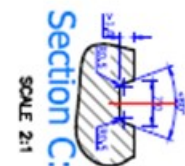
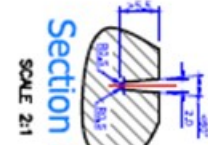
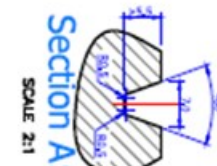
**18" – 225/40-18**



## 18" – 225/40-18



Single element area 125,56mm<sup>2</sup>



RIM 8.0" Class 9"

GROOVED AREA WITH MIN. 1.8x2.0mm GROOVES >21.5%

GROOVED AREA WITH MIN. 5.5x2.0mm GROOVES >17.0%

DRAWING REFERENCES	APPROVAL

DIMENSIONS
HM
MATERIAL

**225/40 R18 DMT RC22 - FIA Homologation table**  
 DMACK TYRES - ENGLAND.

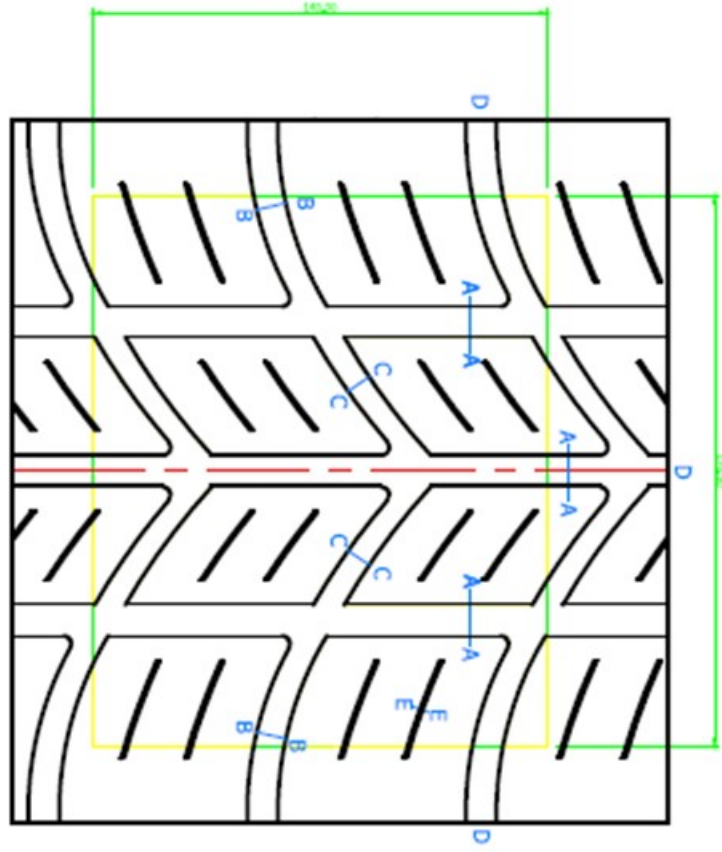
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ISSUE	MODIFICATION	DATE	SIGN
1			

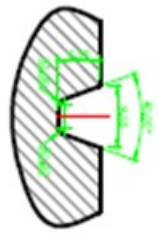


SCALE: 1:1, 2:1, 3:1  
 DNR: 02/22/2016 BY: F. B. M. 16FB037

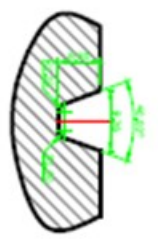
## 18" – 225/40-18



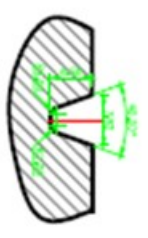
Tread Pattern Detail  
SCALE 1:1



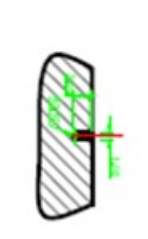
Section A:A  
SCALE 2:1



Section B:B  
SCALE 2:1



Section C:C  
SCALE 2:1



Section E:E  
SCALE 2:1

RIM 8.0" Class 9"

GROOVED AREA WITH MIN. 5.5x2.0mm GROOVES > 27.5%

DRAWING REFERENCES		APPROVAL	

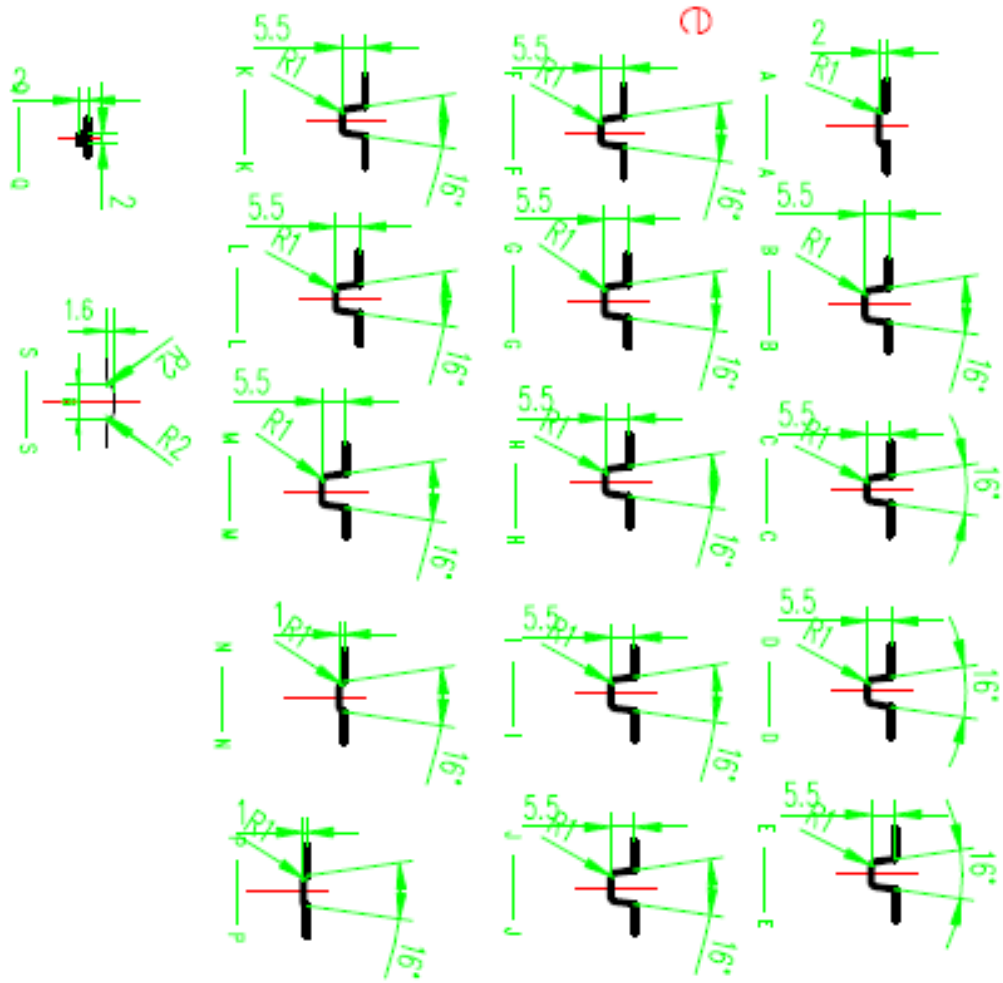
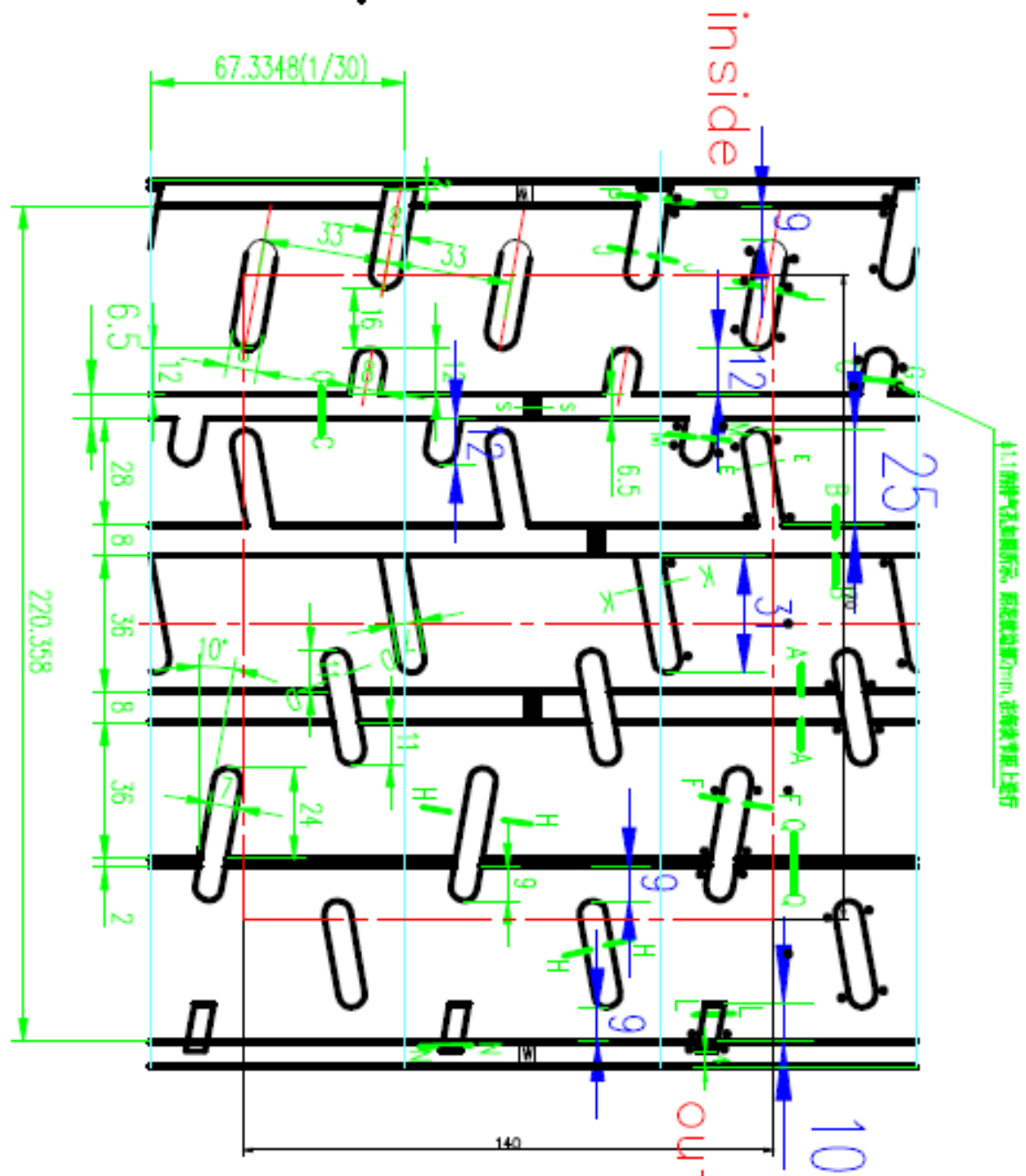
DRAWING REFERENCES		APPROVAL	

DRAWING REFERENCES		APPROVAL	



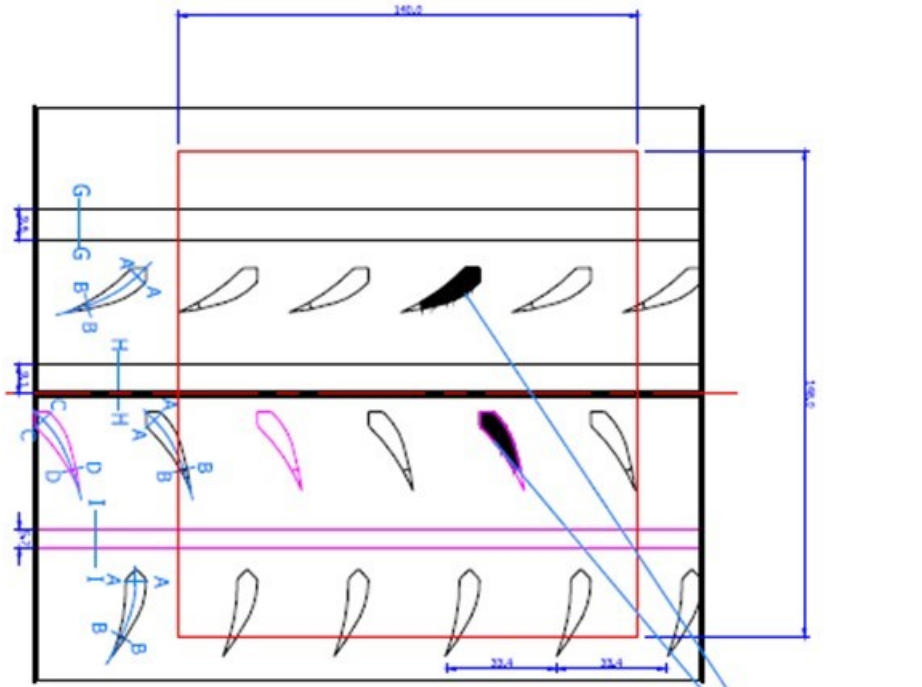
**17" – 225/45-17**

GROOVES SURFACE AREA=5707.86 mm<sup>2</sup>  
 CONTROL SURFACE =23800 mm<sup>2</sup>  
 5707.86/23800=23.983%

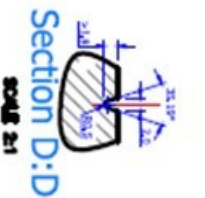
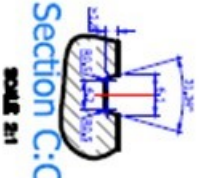
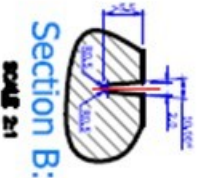
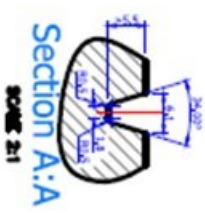
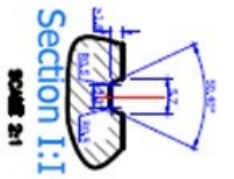
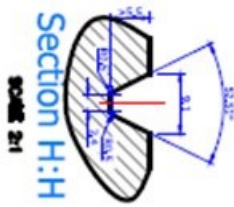
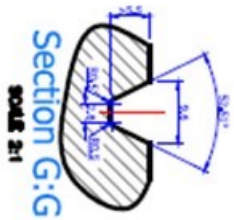


设计	审核	工艺	批准	名称	日期	图号	备注
				PATTERN		225/45R17 DMT-RC	
				材料		重量	比例
						数量	备注
				Dmack Tyre Ltd			

**17" – 205/45-17**



Single element  
area 93.7mm<sup>2</sup>



RIM 7.0" Class 8"

GROOVED AREA WITH MIN. 1.8x2.0mm GROOVES >21.5%

GROOVED AREA WITH MIN. 5.5x2.0mm GROOVES >17.0%

DRAWING REFERENCES	APPROVAL

DIMENSIONS	
MM	205/45 R17 DMT RC2 - FIA Homologation details
MATERIAL	DMACK TYRES - ENGLAND.

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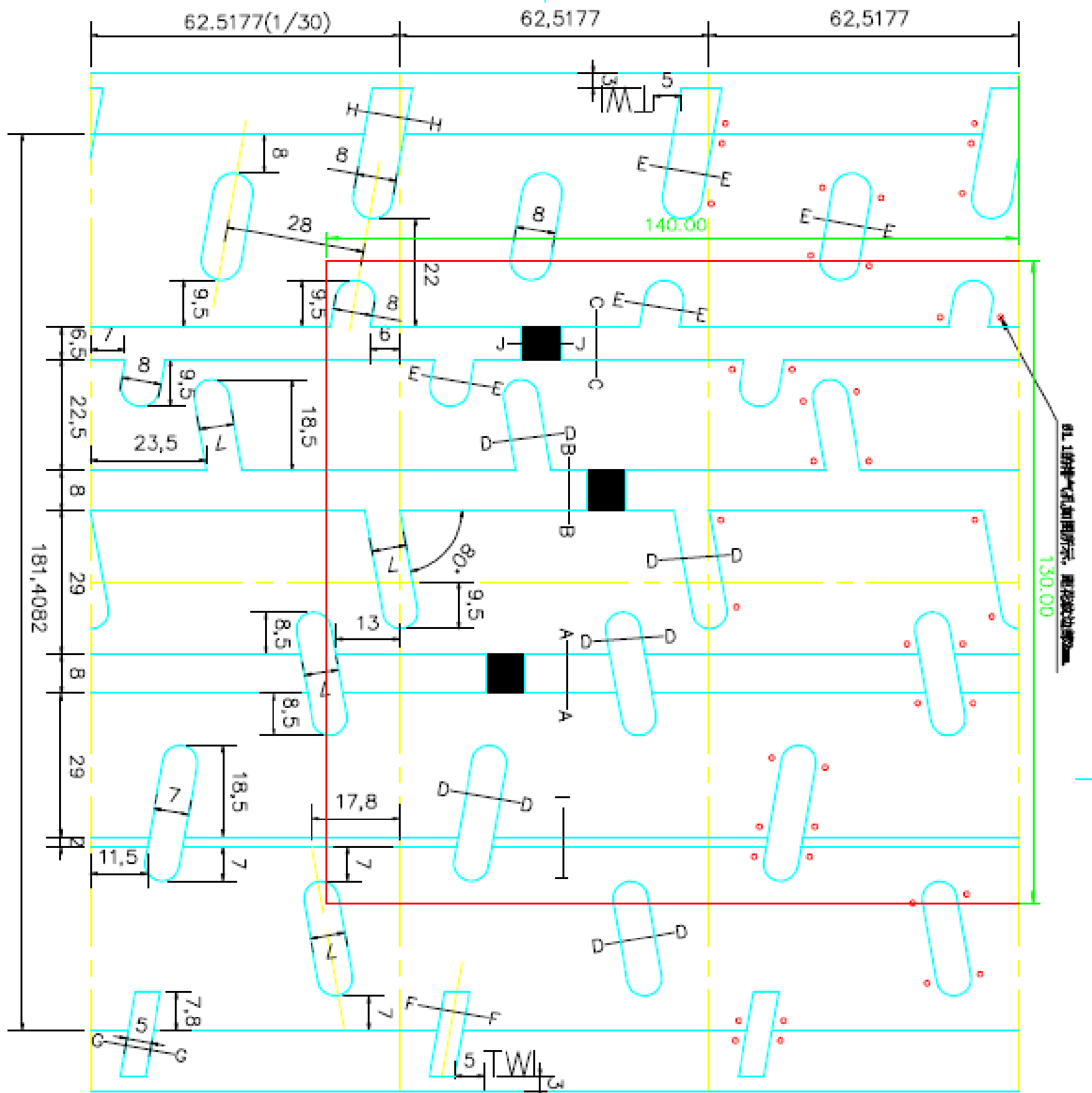
ISSUE	MODIFICATION	DATE	SIGN
1		11.21.14	



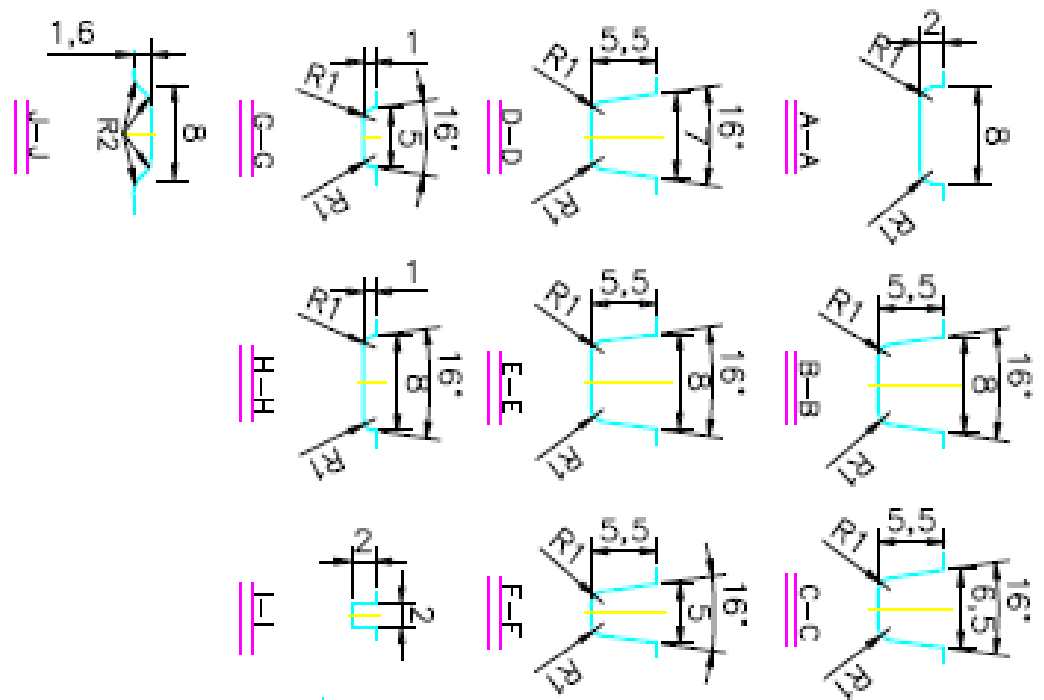
SCALE: 1:1, 2:1, 3:1  
DIN: 1970/2016 BY: F. BWA  
16FB031



## 16" - 195/50-16



01. 16吋-195/50R16 DMACK 輪胎胎面圖示，圖樣按公制繪製。

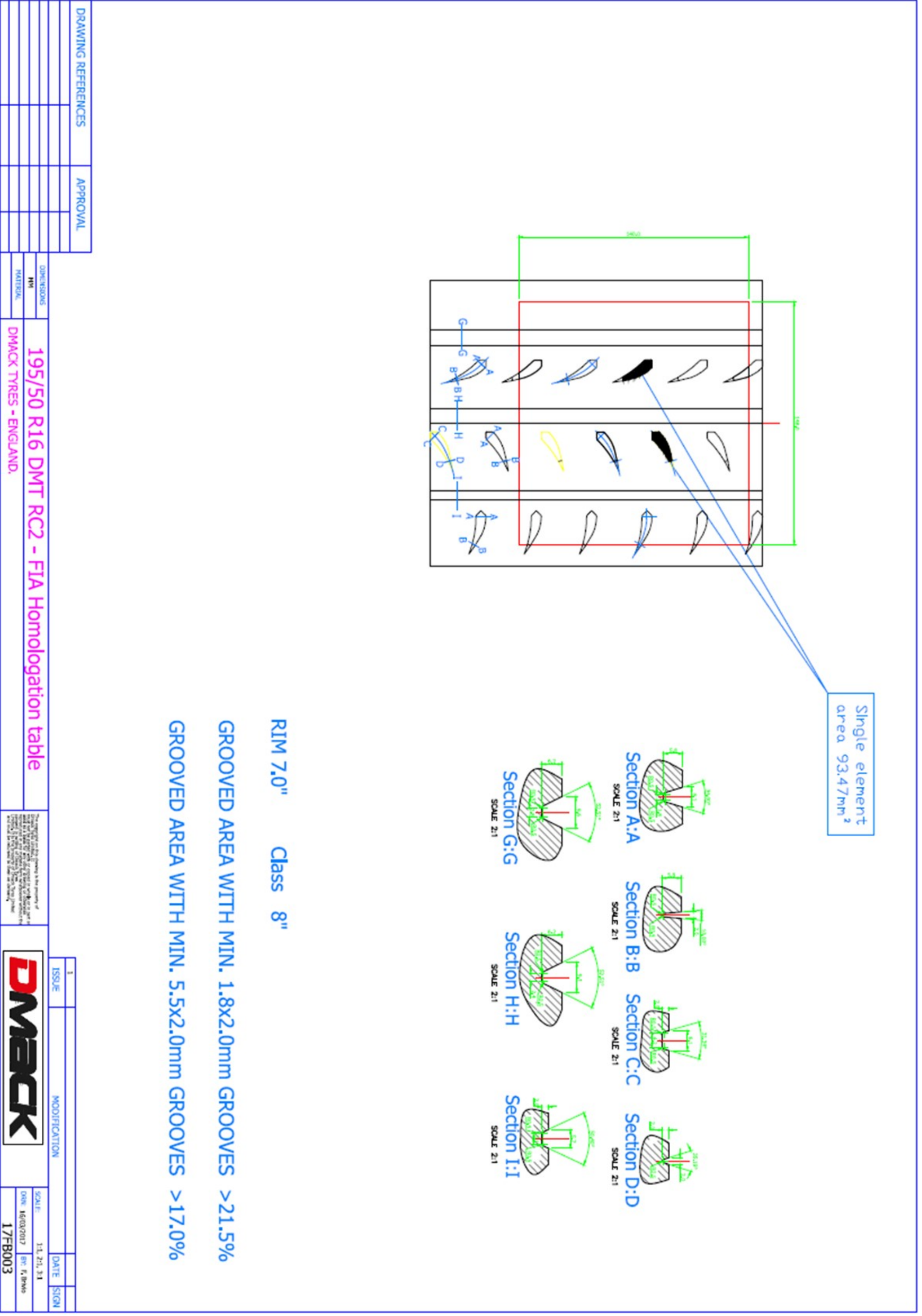


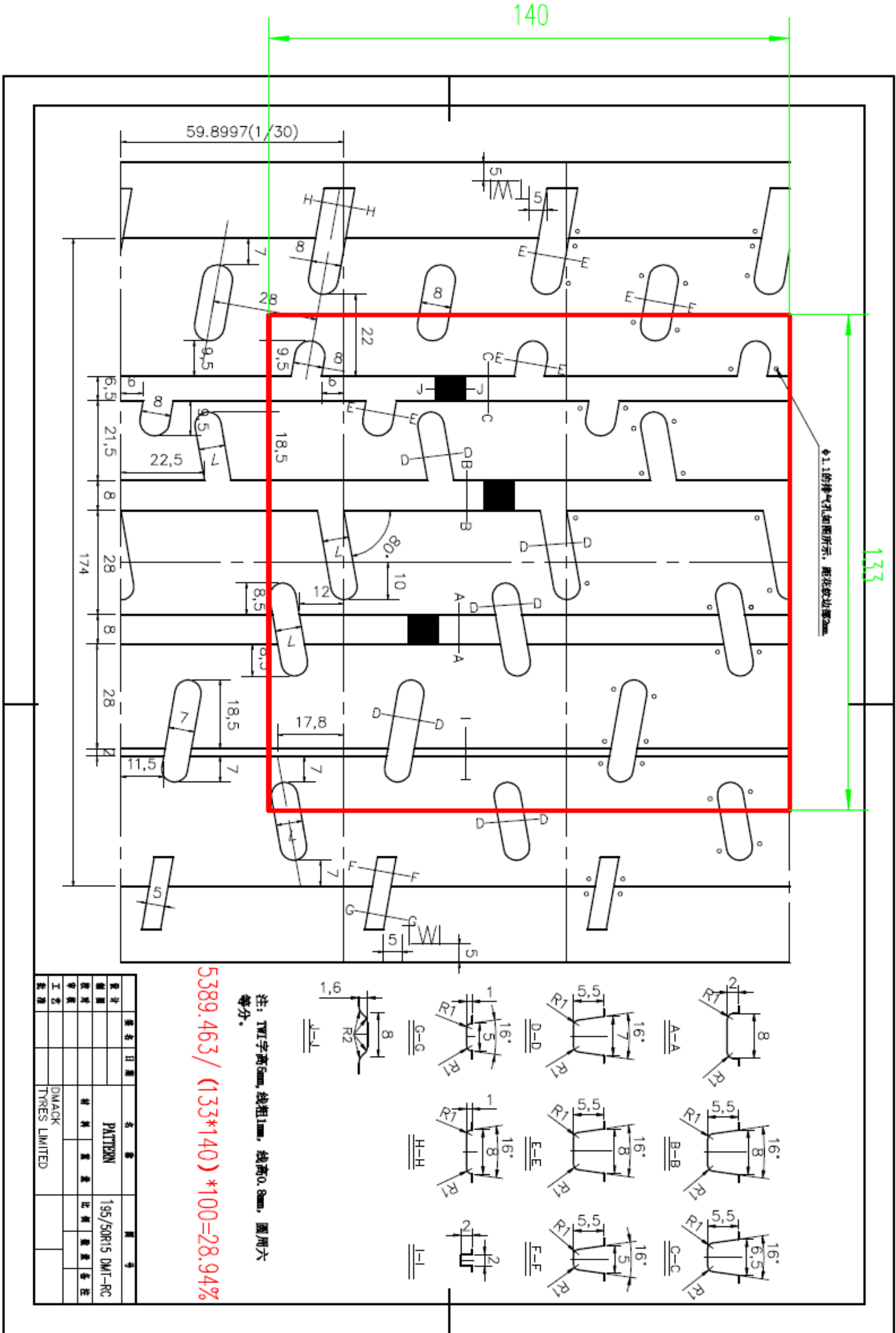
注：TWI字高5mm，紋距1mm，紋高0.8mm，圓角大等分。

$$5190.276 / (130 + 140) * 100 = 28.518\%$$

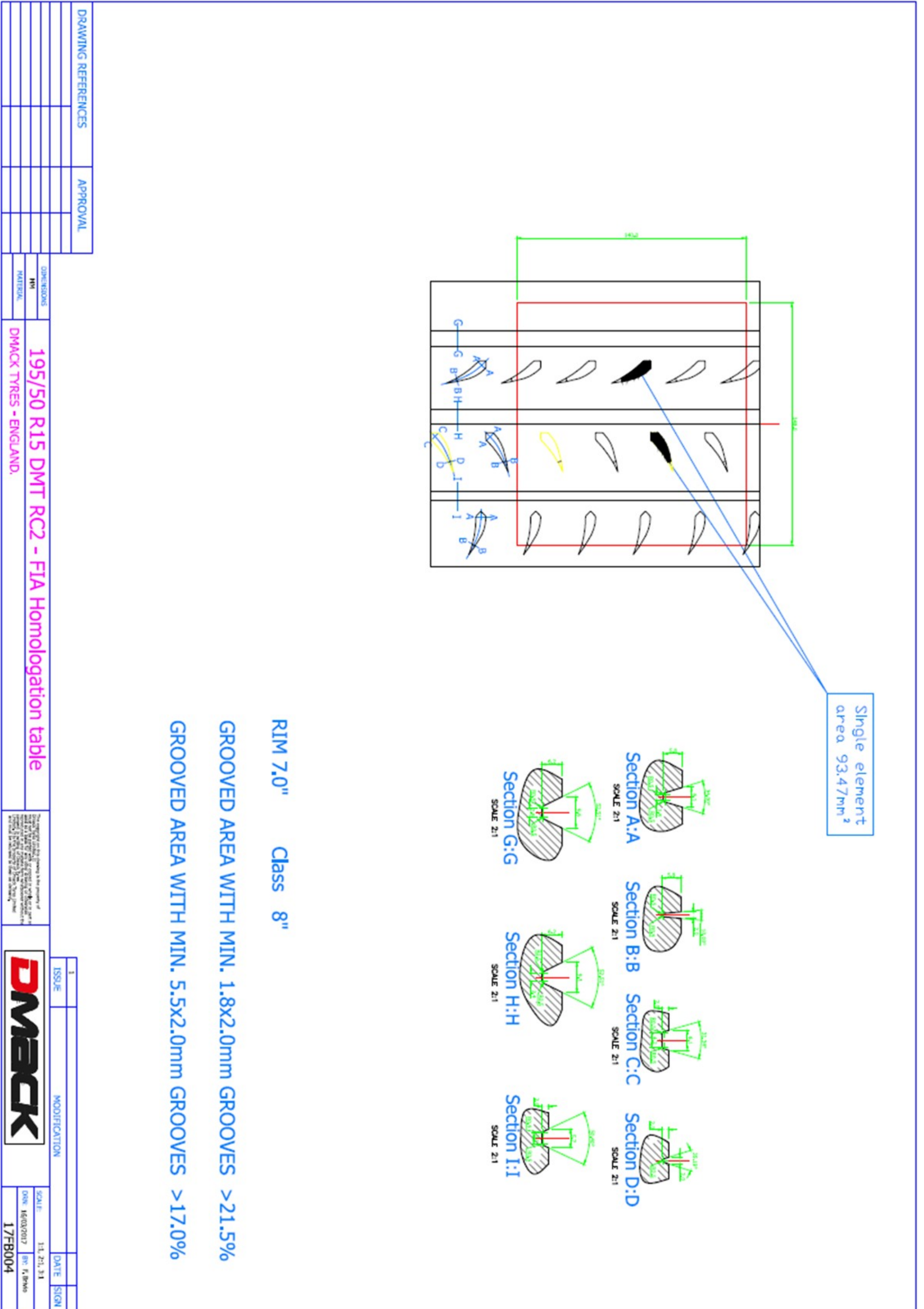
圖號	圖名	比例	圖號	圖名	比例
	PATTERN			195/50R16 DMACK	
				DMACK TYRES	
				LIMITED	

## 16" – 195/50-16

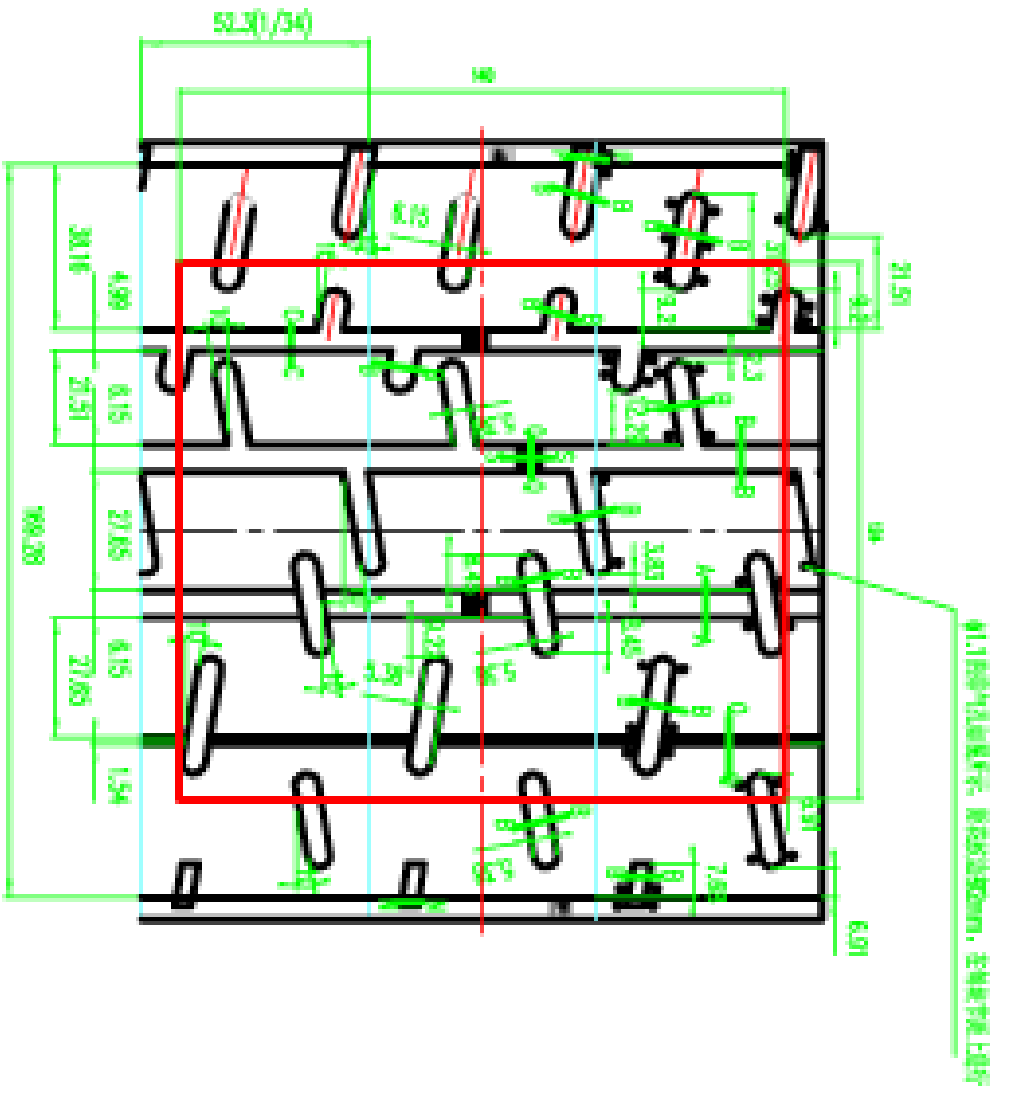




**15" – 195/50-15**

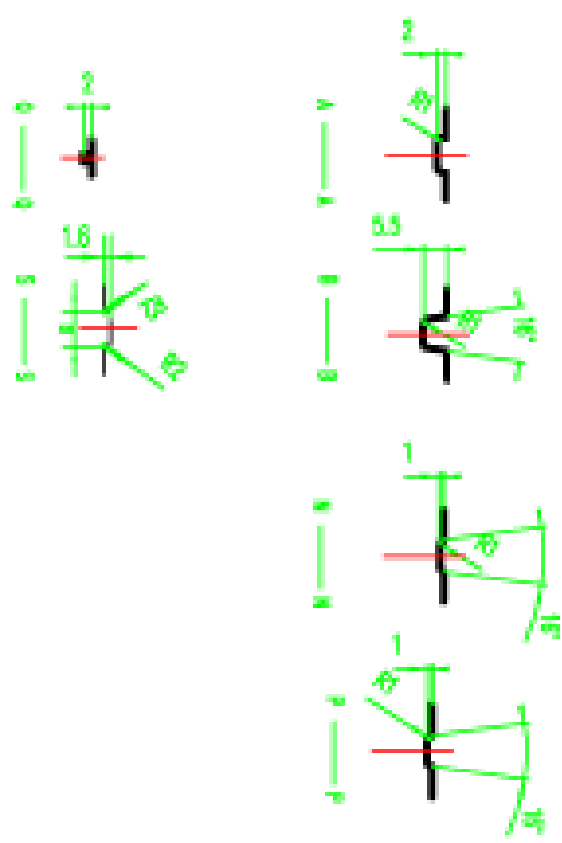


## 14" – 175/60-14



注：TWI字高3mm，线粗1mm，线高0.8mm，圆周六等分

GROOVES SURFACE AREA=4292.808;  
CONTROL SURFACE 17360;  
4292.808/17360=24.728%

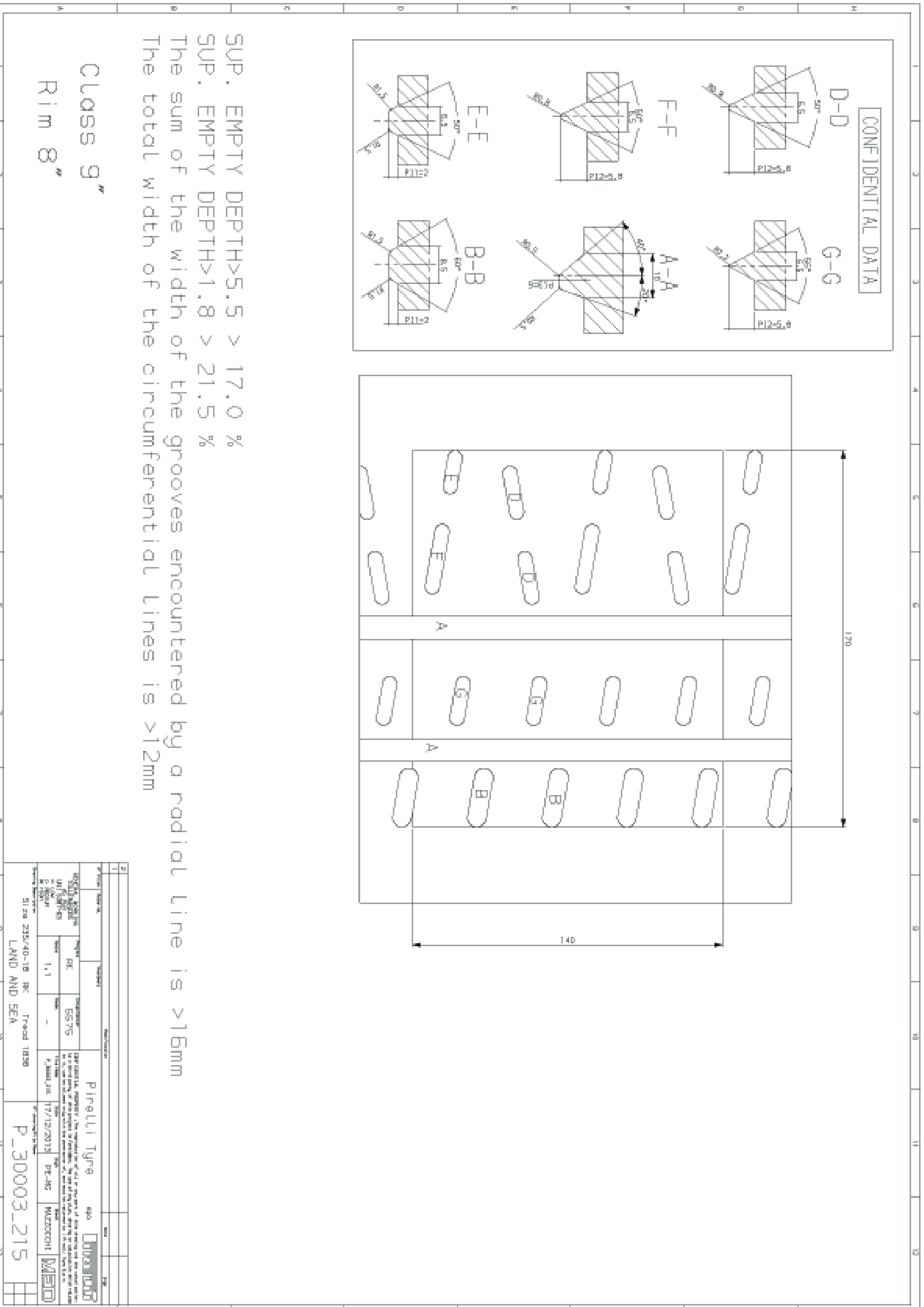


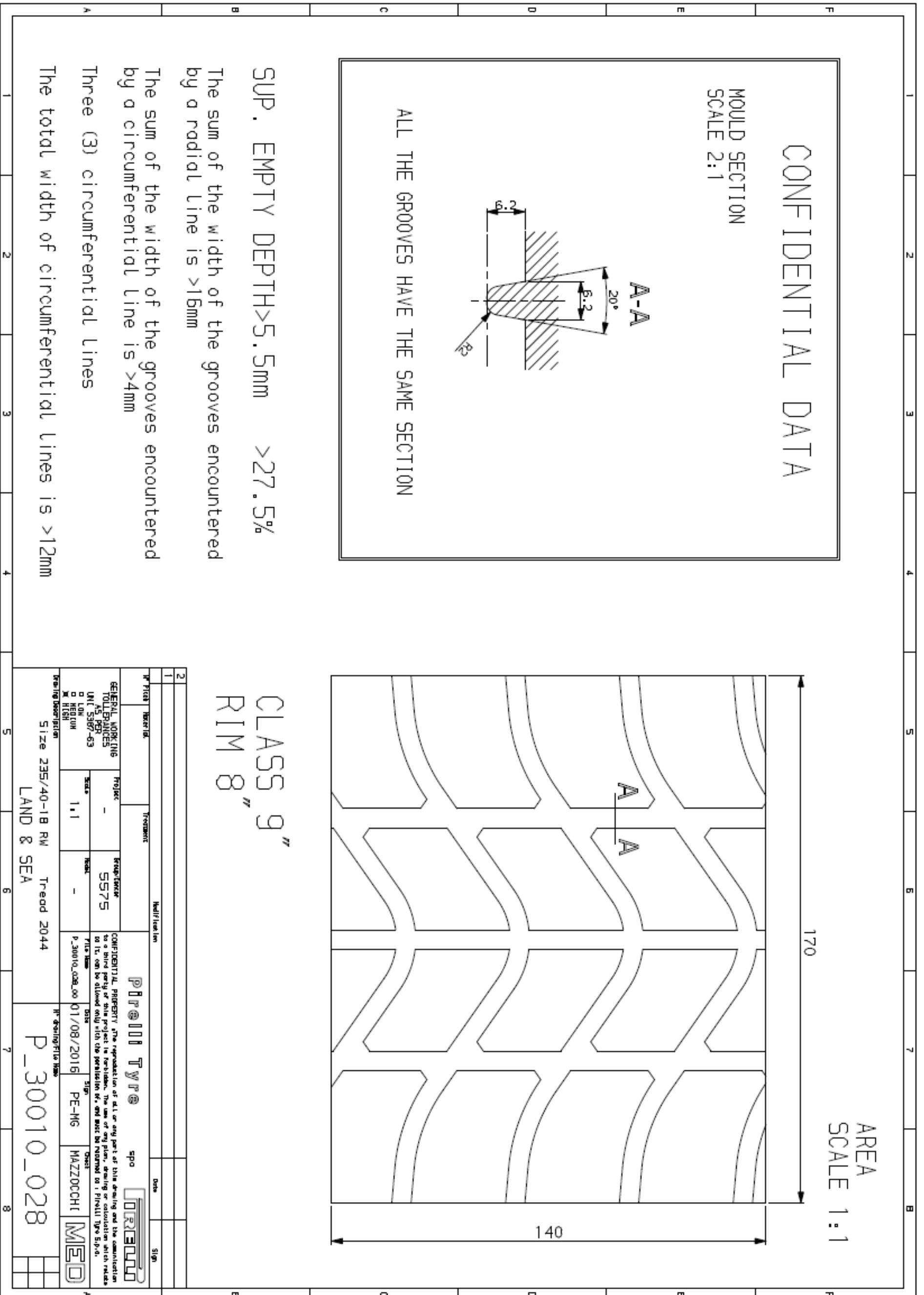
设计	姓名	日期	名称	规格	图号
制图			TREAD	175/60R14	DMT-RC
校核			材料	重量	比例
审核					数量
工艺					备注
标准			DMACK TYRES LTD		





# 18" – 235/40-18

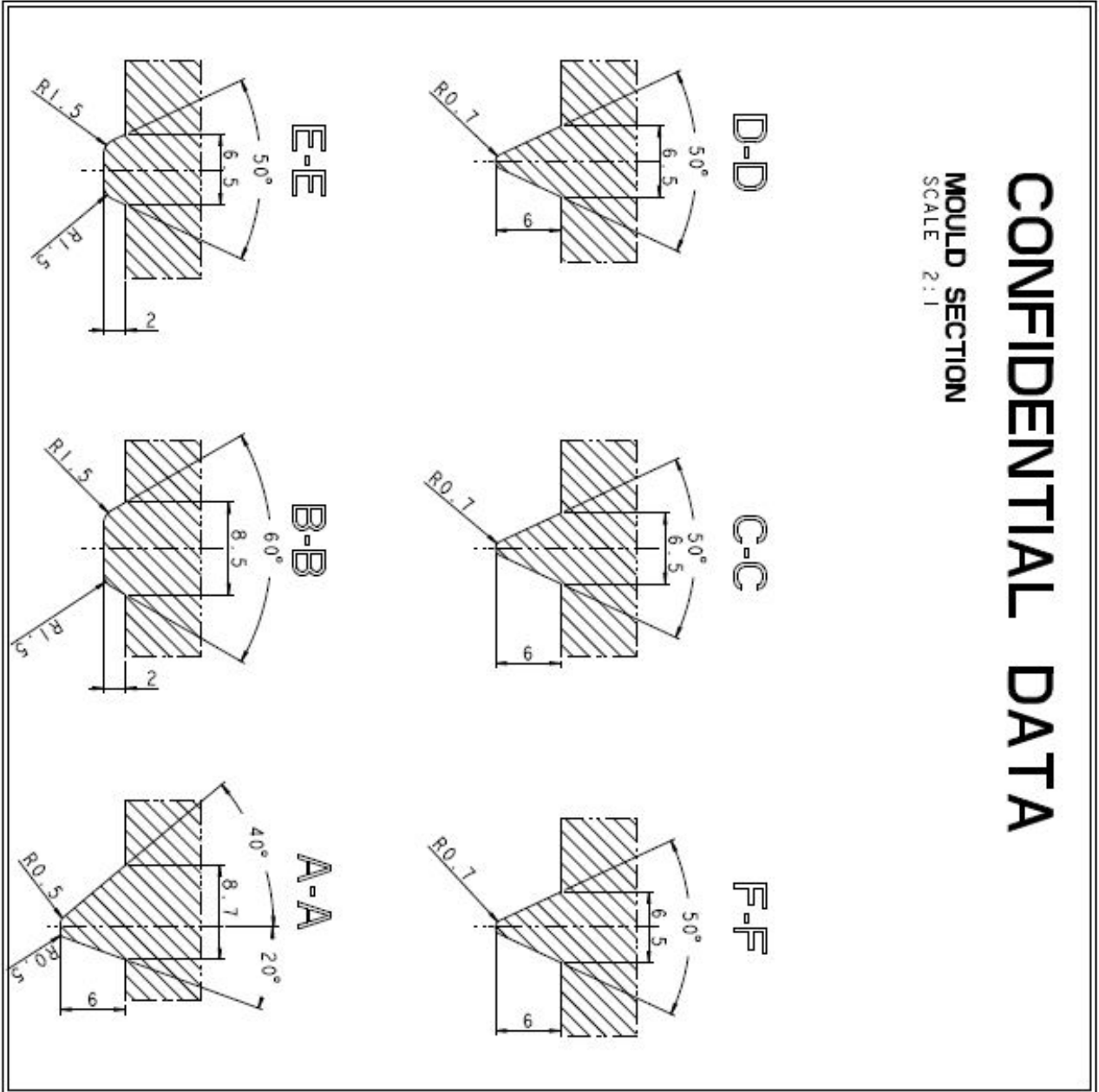






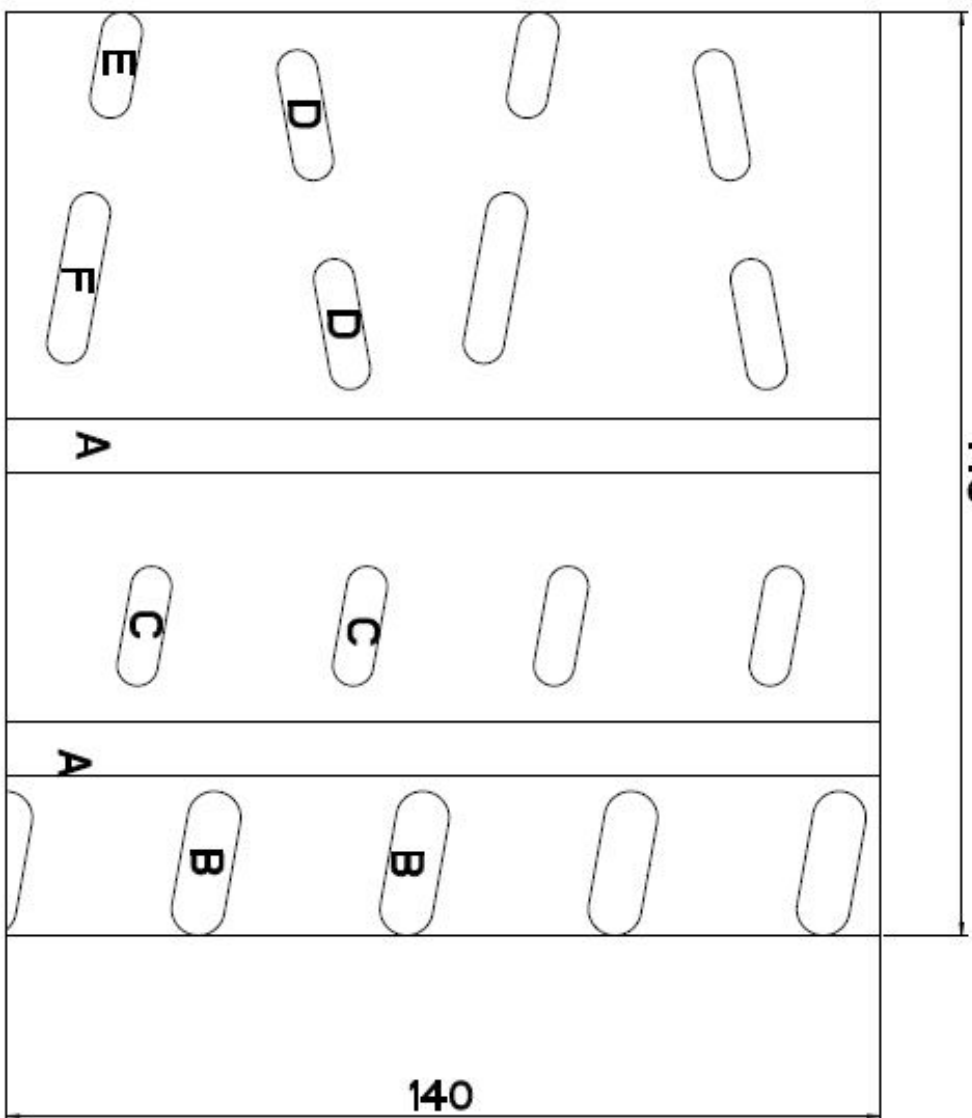
# CONFIDENTIAL DATA

MOULD SECTION  
SCALE 2:1



SUP. EMPTY DEPTH > 5.5 > 17%  
 SUP. EMPTY DEPTH > 1.8 > 21.5%  
 The sum of the width of the grooves encountered by a radial line is > 16mm  
 The total width of circumferential lines is > 12mm

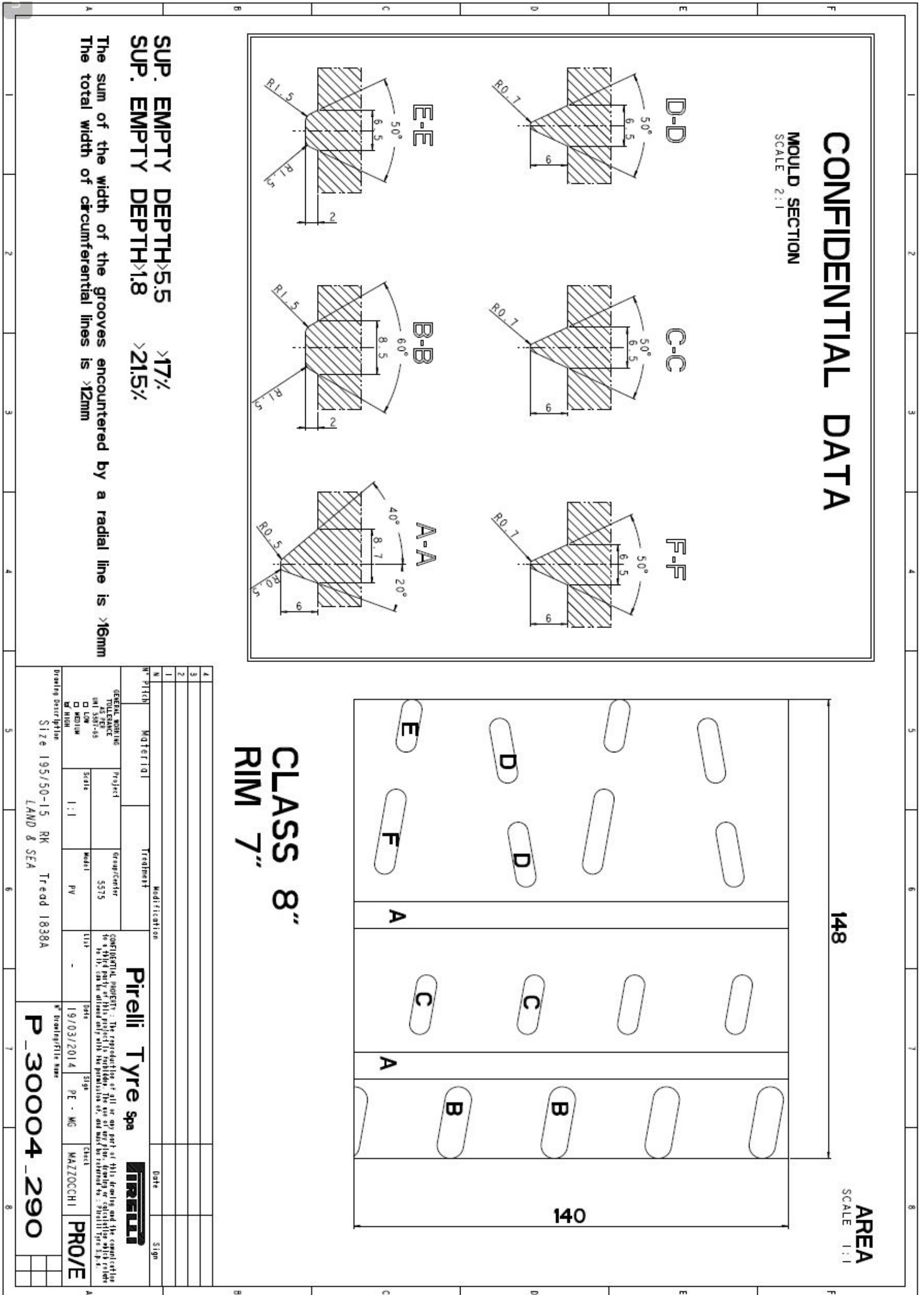
148  
 AREA  
 SCALE 1:1



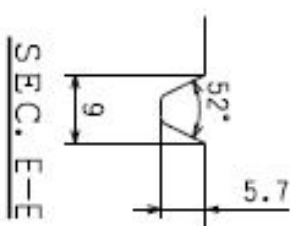
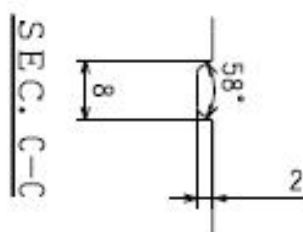
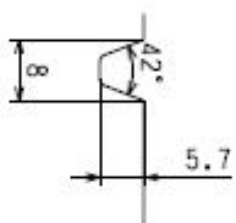
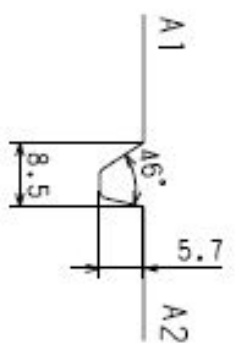
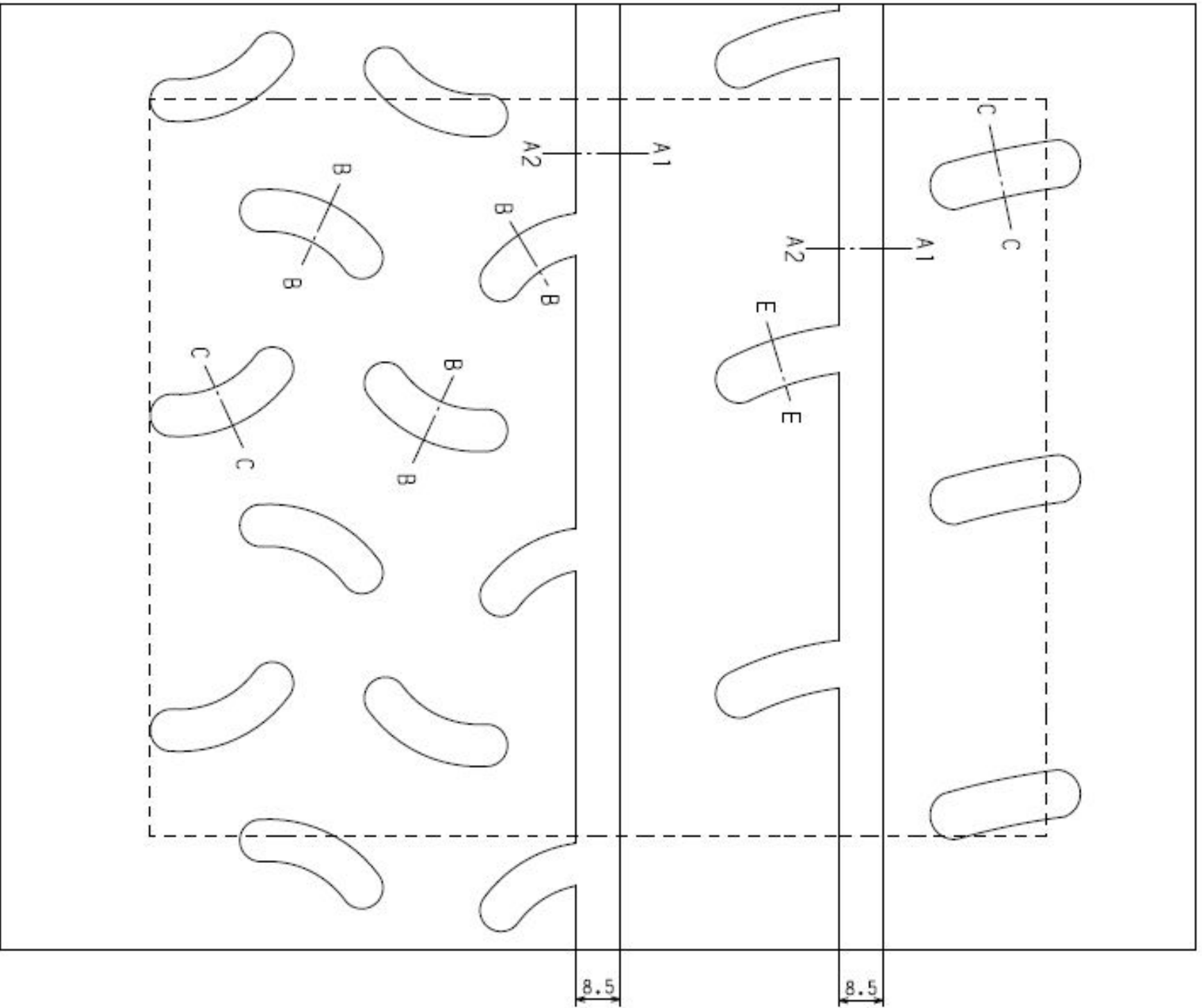
CLASS 8"  
 RIM 7"

4									
3									
2									
1									
N									
GENERAL WORKING TOLERANCE UNI 3881-85		Project		Treatment		CONFIDENTIAL PROPERTY: The reproduction of all or any part of this drawing and the compilation to a third party of this project is forbidden. The use of any plan, drawing or calculation which relates to it, can be allowed only with the permission of: Pirelli Tyre S.p.A.		Date	
<input type="checkbox"/> LOW <input type="checkbox"/> MEDIUM <input checked="" type="checkbox"/> HIGH		Scale 1:1	Model PV	Usp	Site 19/03/2014	Slip PE - WG	Check MAZZOCCHI	Sign	
Drawing description		Size 195/50-16 RK Tread 1838A		LAWD & SEA		Pirelli Tyre spa		Date	
						P_30004_291			
						PRO/E			





**18" – 235/40-18**



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

----- Control area 170X140

Tyre weight 9.7kg

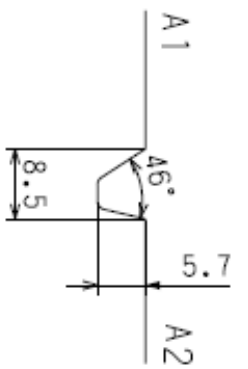
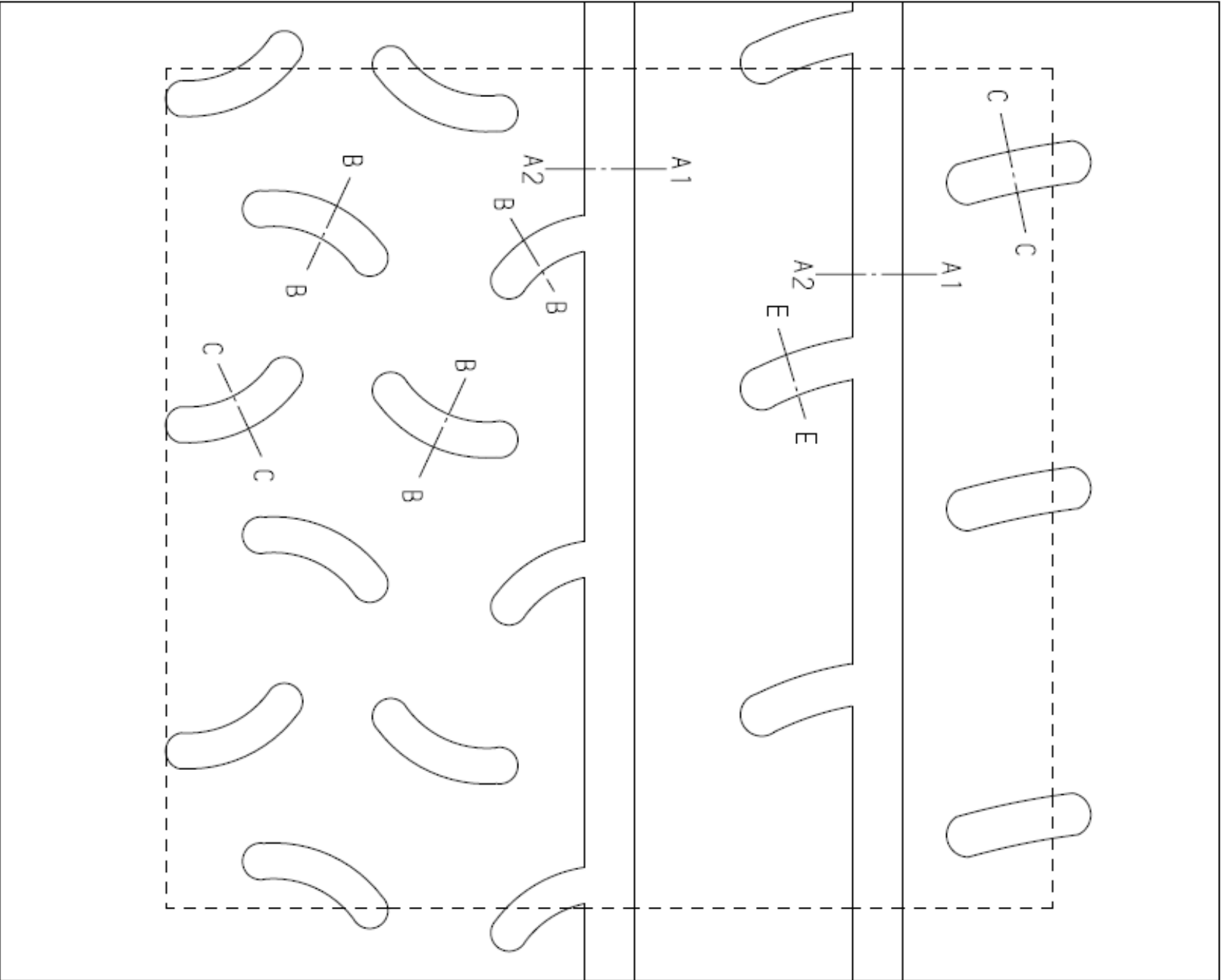
**PRODUCT NAME**  
**YOKOHAMA ADVAN A051T**

**PATTERN NAME**  
**A051A**

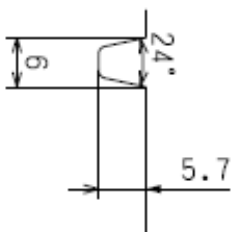
**SIZE 210/650R18**



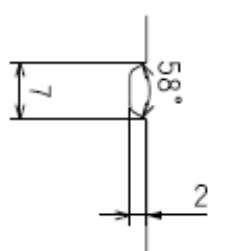
17" – 190/625-17



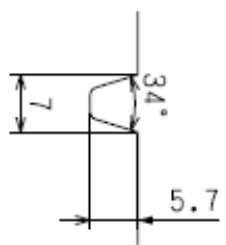
SEC. A1-A2



SEC. B-B



SEC. C-C



SEC. E-E

In the control area  
5.5mm grooves-18.2%  
Total grooves-22.0%

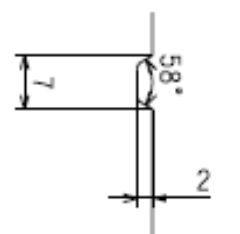
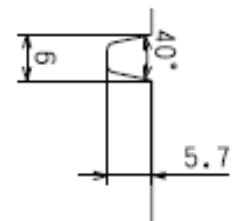
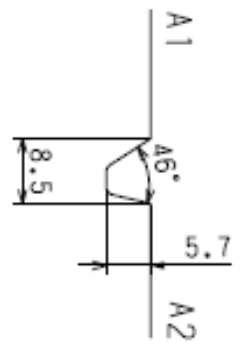
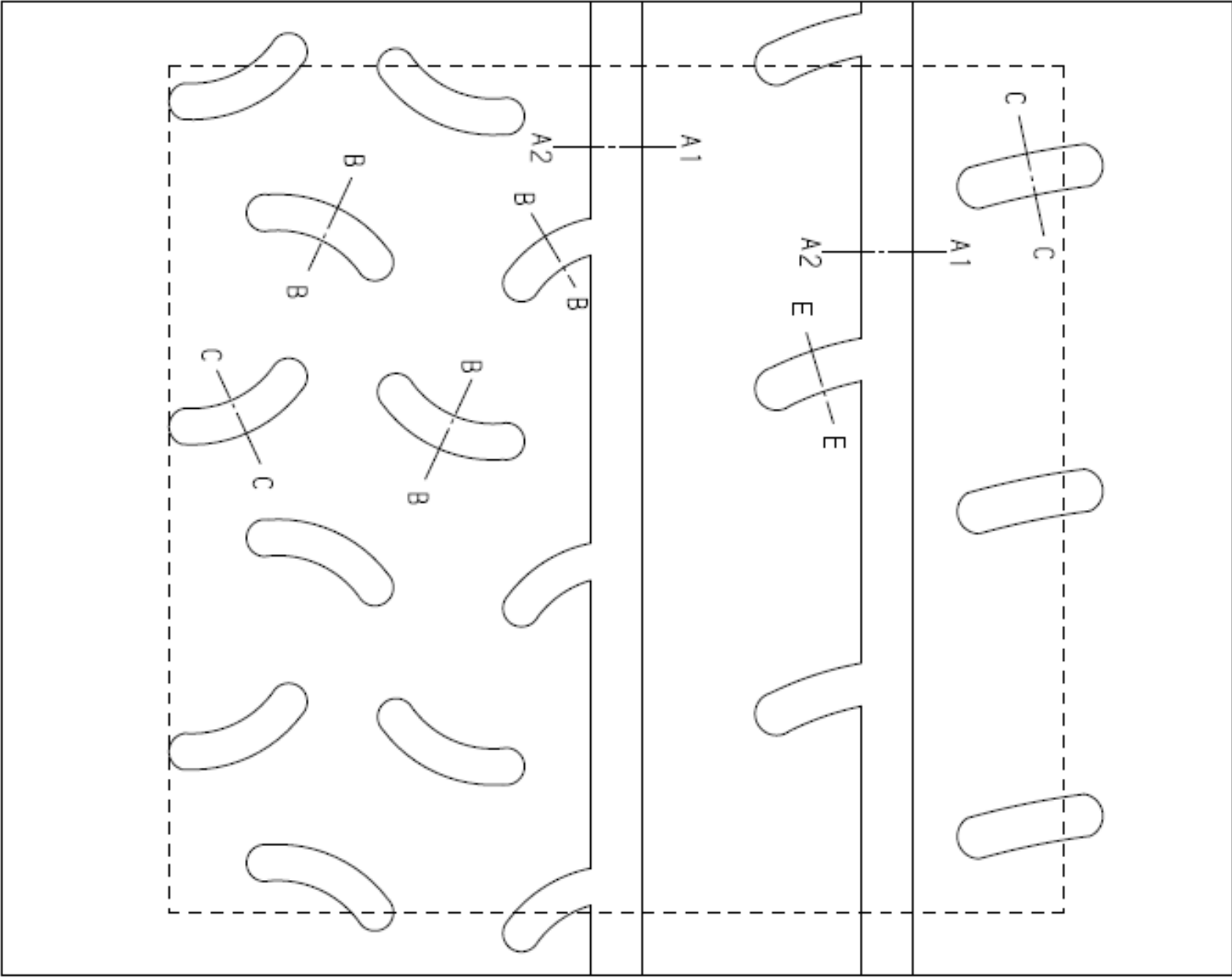
----- Control area 148X140

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

**PATTERN NAME**  
**A051A**

**SIZE 190/625R17**

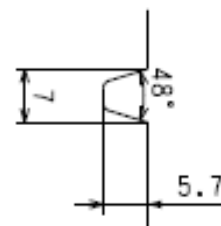
17" – 210/625-17



SEC. A1-A2

SEC. B-B

SEC. C-C



SEC. E-E

In the control area  
 5.5mm grooves-17.9%  
 Total grooves-21.6%

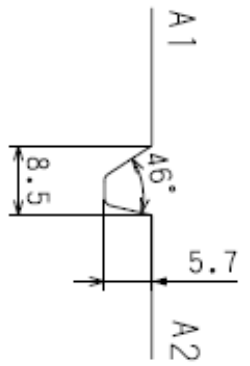
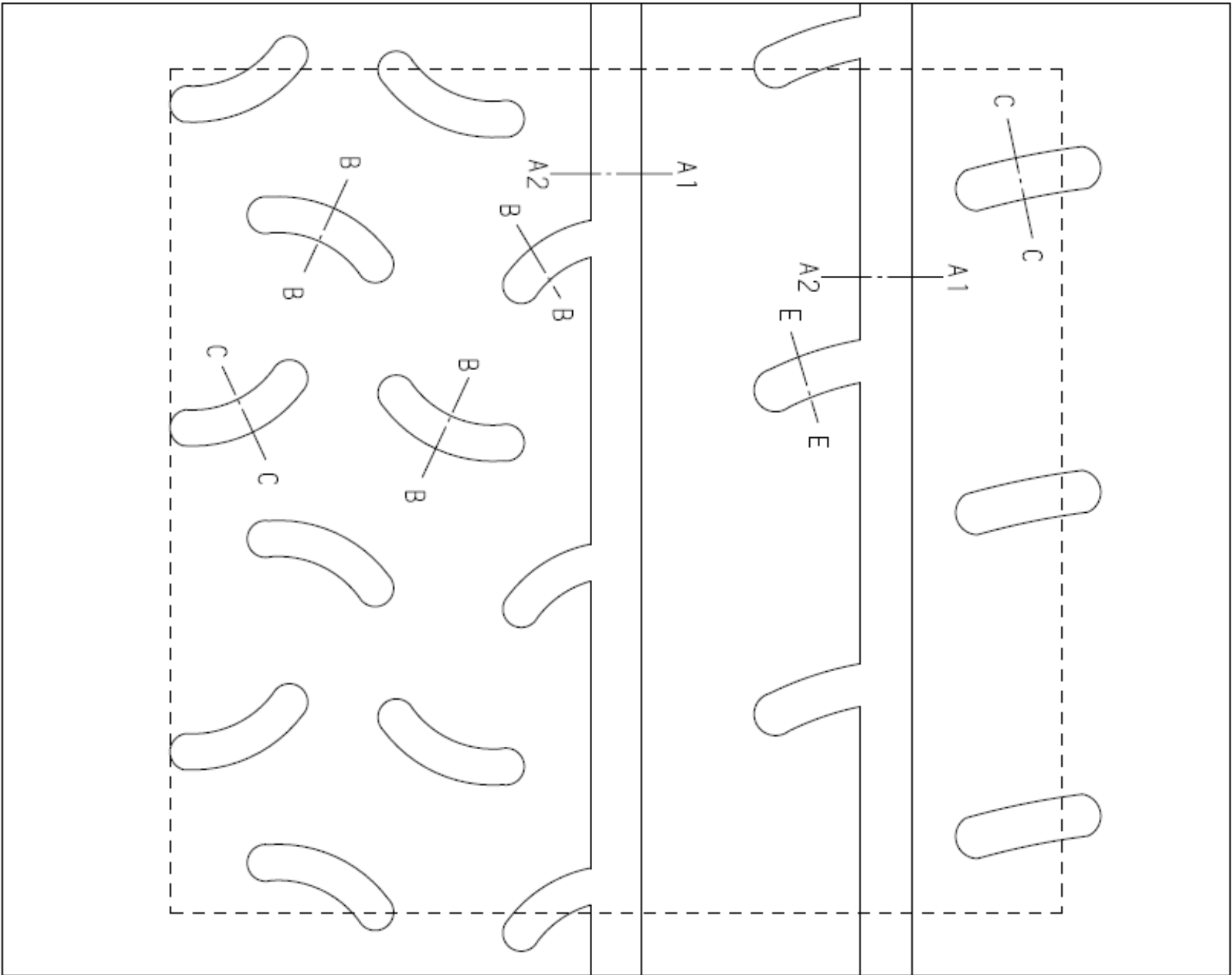
----- Control area 170X140

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

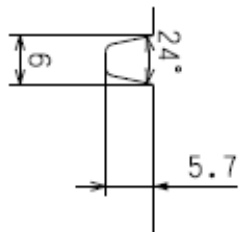
**PATTERN NAME**  
**A051A**

**SIZE 210/625R17**

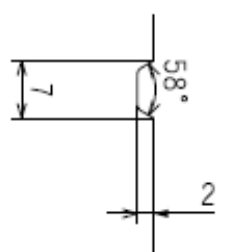
**16" – 190/600-16**



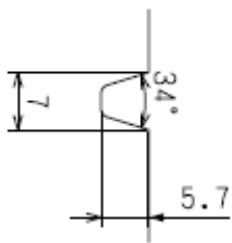
**SEC. A1-A2**



**SEC. B-B**



**SEC. C-C**



**SEC. E-E**

In the control area  
 5.5mm grooves-18.1%  
 Total grooves-21.9%

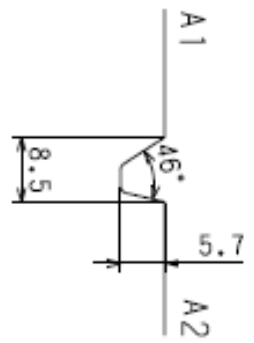
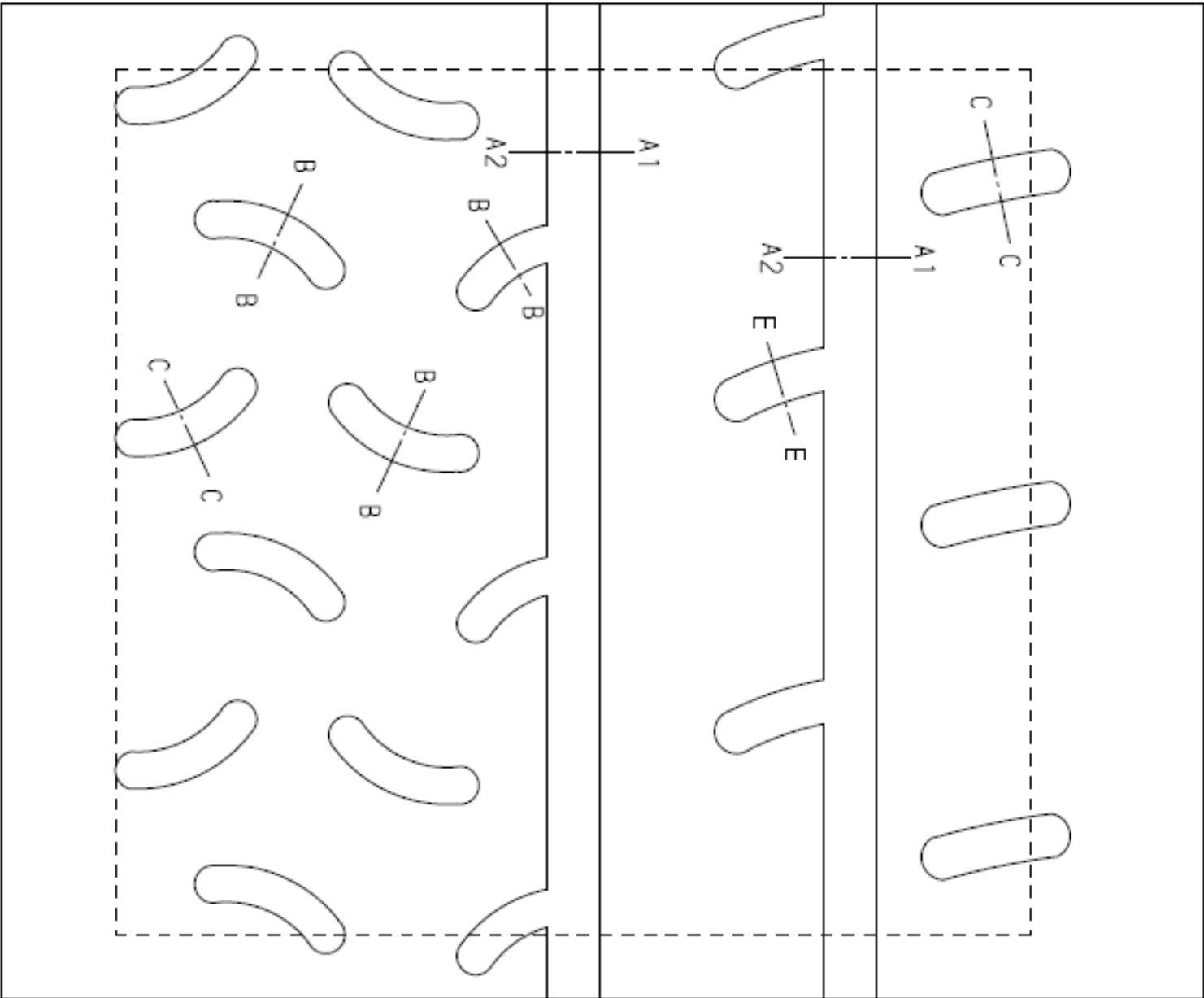
----- Control area 148X140

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

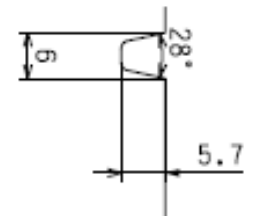
**PATTERN NAME**  
**A051A**

**SIZE 190/600R16**

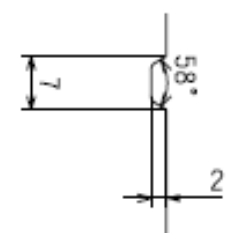
**15" – 190/580-15**



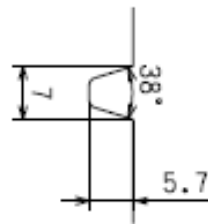
**SEC. A1-A2**



**SEC. B-B**



**SEC. C-C**



**SEC. E-E**

In the control area  
 5.5mm grooves-18.2%  
 Total grooves-21.6%

----- Control area 148X140

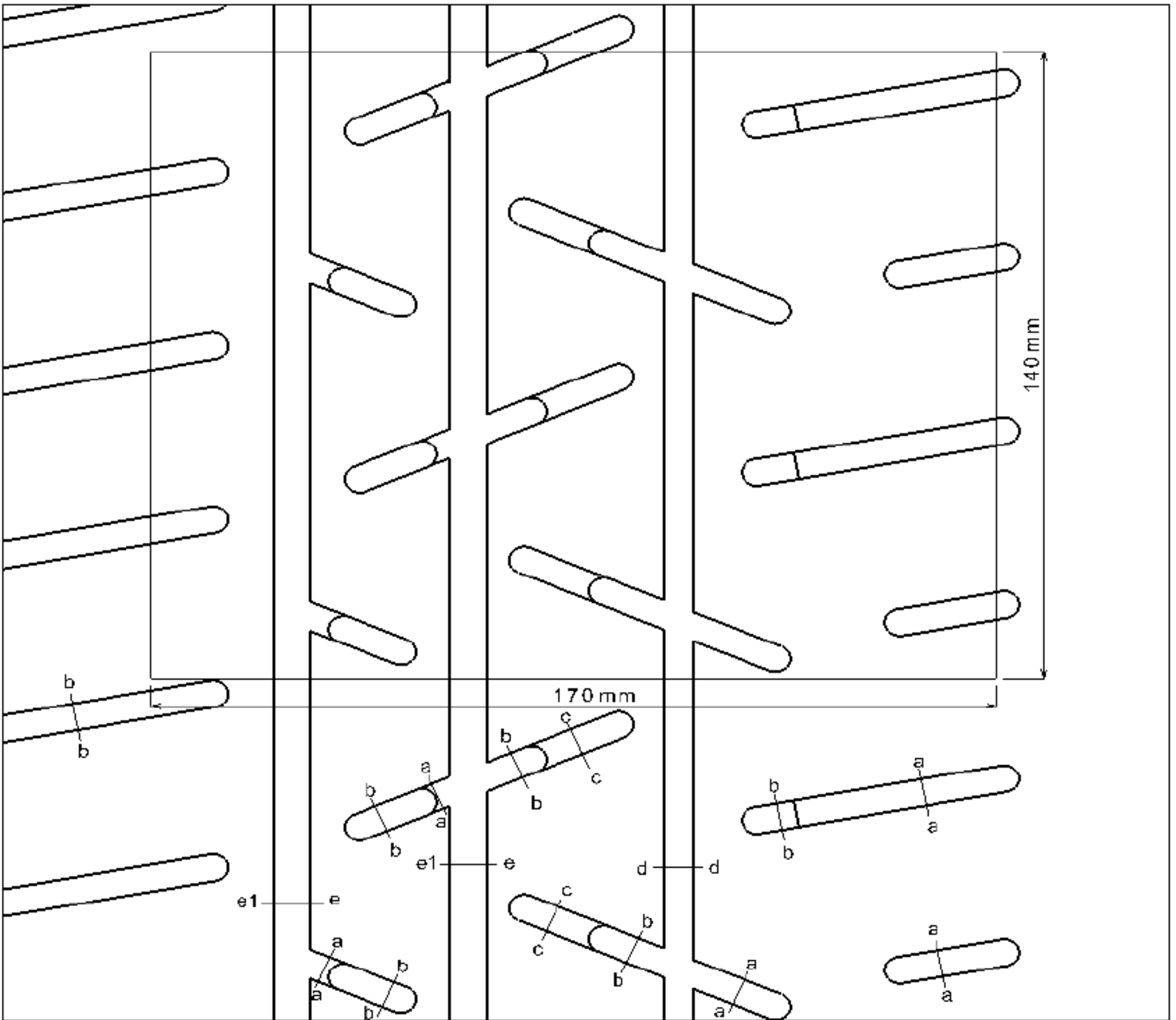
**PRODUCT NAME**  
**YOKOHAMA ADVAN A051T**

**PATTERN NAME**  
**A051A**

**SIZE 190/580R15**

# 18" - 210/650R18

Product : Ventus Z205



Sec. a-a	Sec. b-b	Sec. c-c
Sec. d-d	Sec. e-e1	

## Class 9" (Rim 8")

Empty Depth > 5.5mm : 17.07%

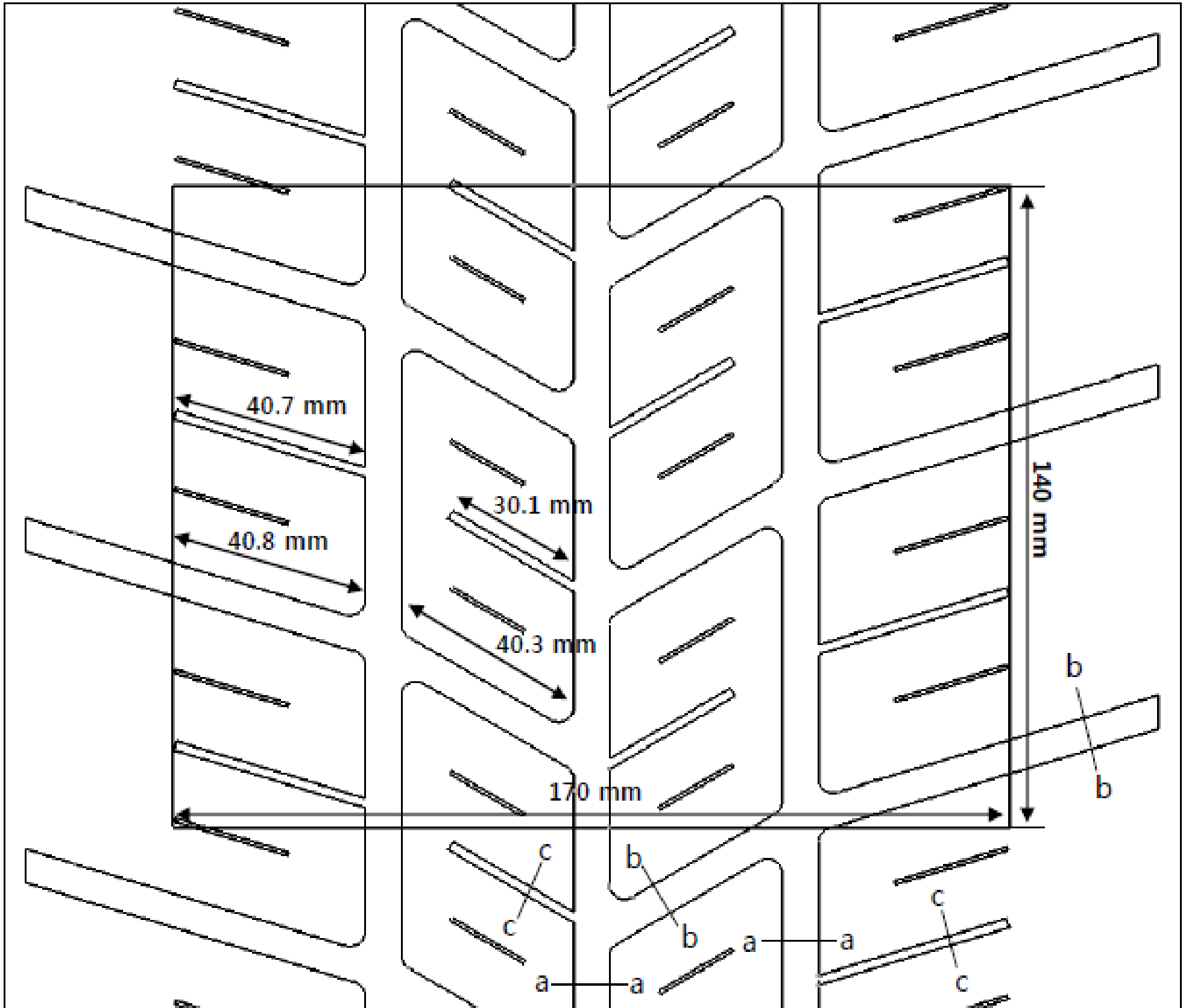
Empty Depth > 1.8mm : 23.30%

GROOVE SURFACE AREA = 554540 mm<sup>2</sup>

Control Surface = 23800 mm<sup>2</sup>

# 18" - 210/650R18

Product : Ventus Z210



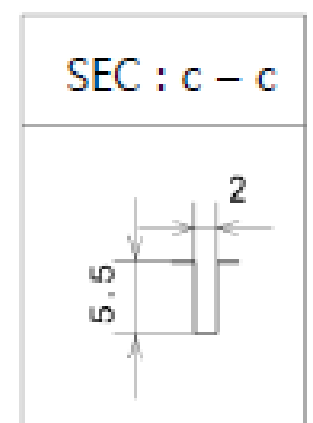
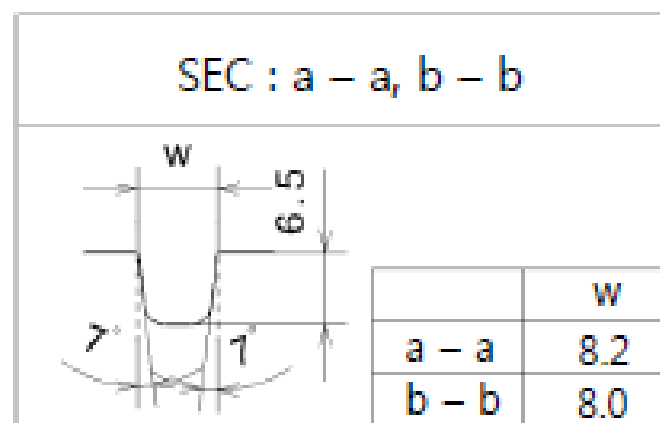
## Class 9" (Rim 8")

a – a groove width / depth : 8.2 mm / 6.5 mm

b – b groove width / depth : 8.0 mm / 6.5 mm

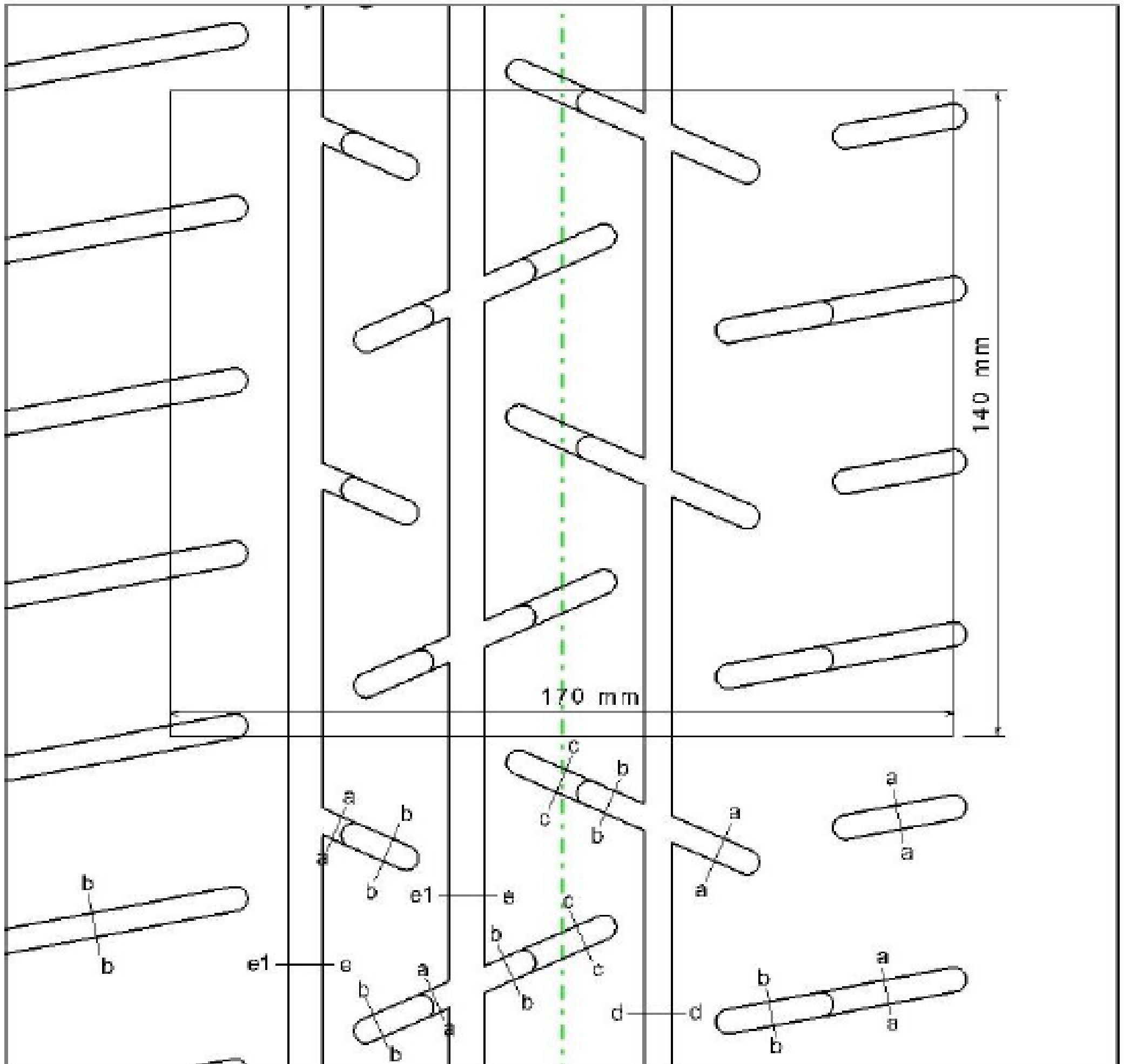
Empty Depth > 5.5mm : 27.5%

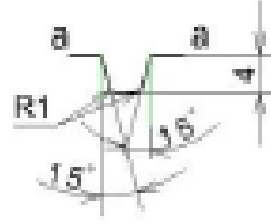
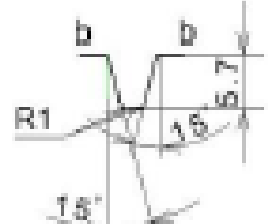
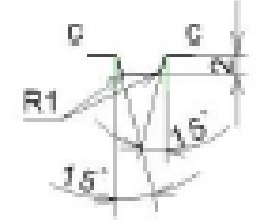
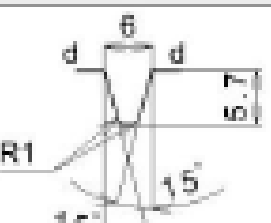
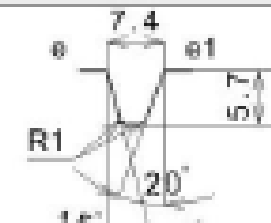
Control Surface = 23800 mm<sup>2</sup>



# 17" - 210/625R17

Product : Ventus Z205



Sec. a-a	Sec. b-b	Sec. c-c
		
Sec. d-d	Sec. e-e1	
		

## Class 9" (Rim 7.5")

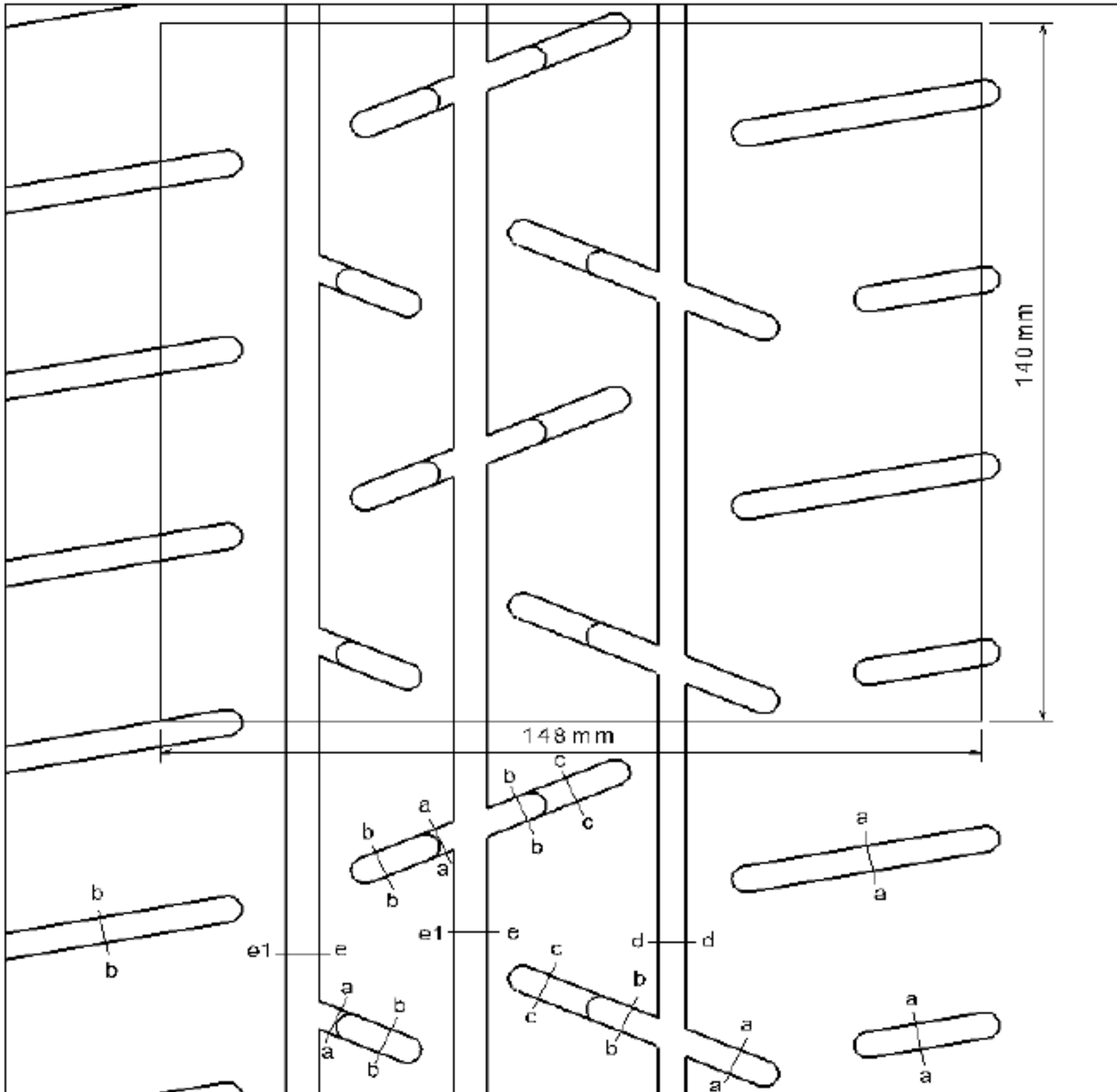
Empty Depth > 5.5mm : 17.05%

Empty Depth > 1.8mm : 25.08%

Control Surface = 23800 mm<sup>2</sup>

# 17" - 180/625R17

Product : Ventus Z205



Sec. a-a	Sec. b-b	Sec. c-c
Sec. d-d	Sec. e-e1	

## Class 8" (Rim 7")

Empty Depth > 5.5mm : 17.06%

Empty Depth > 1.8mm : 22.48%

8

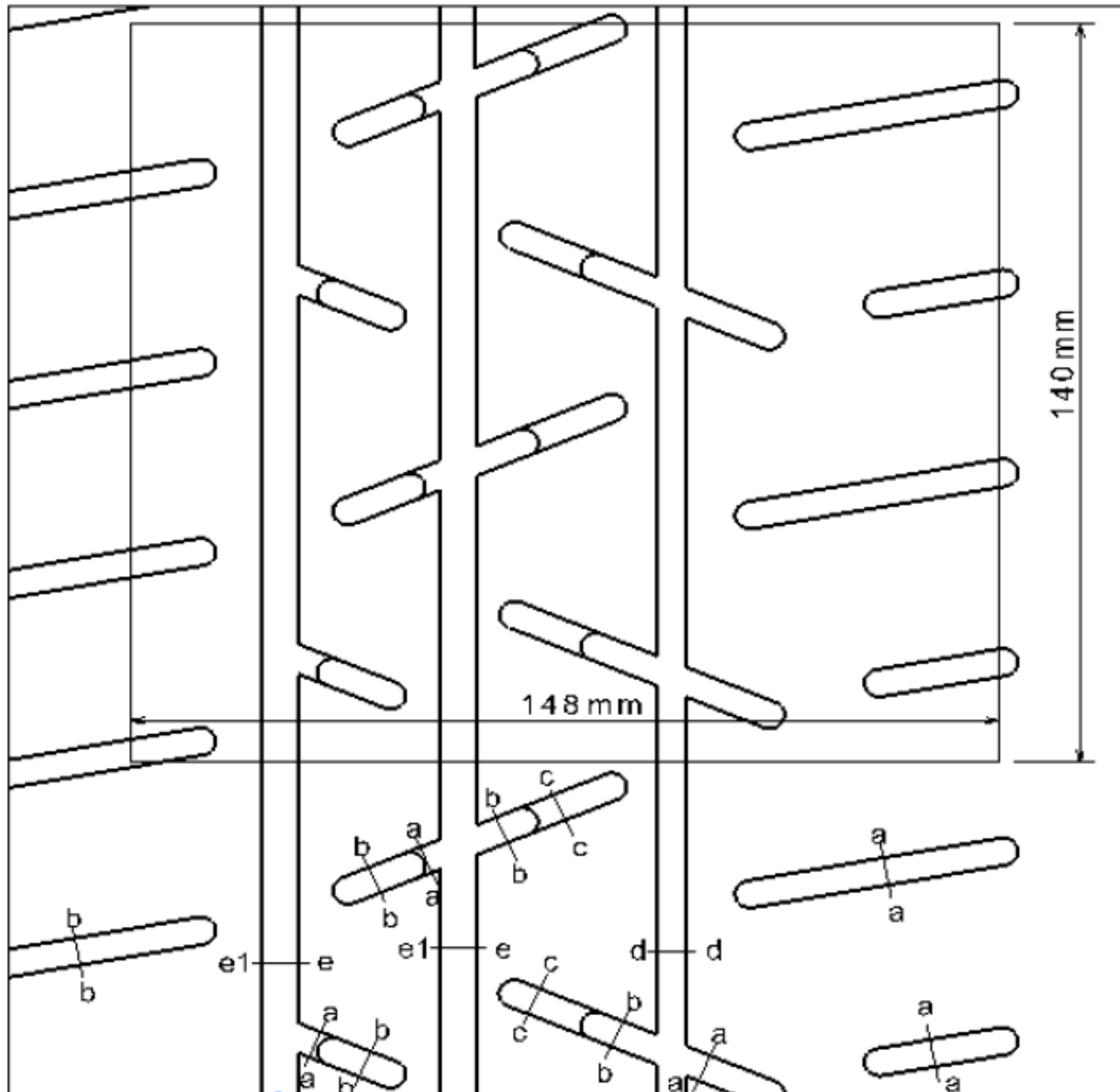
GROOVE SURFACE AREA = 353483.2 mm<sup>2</sup>

Control Surface = 20720 mm<sup>2</sup>



# 16" - 180/600R16

Product : Ventus Z205



Sec. a-a	Sec. b-b	Sec. c-c
Sec. d-d	Sec. e-e1	

## Class 8" (Rim 6.5")

Empty Depth > 5.5mm : 17.30%

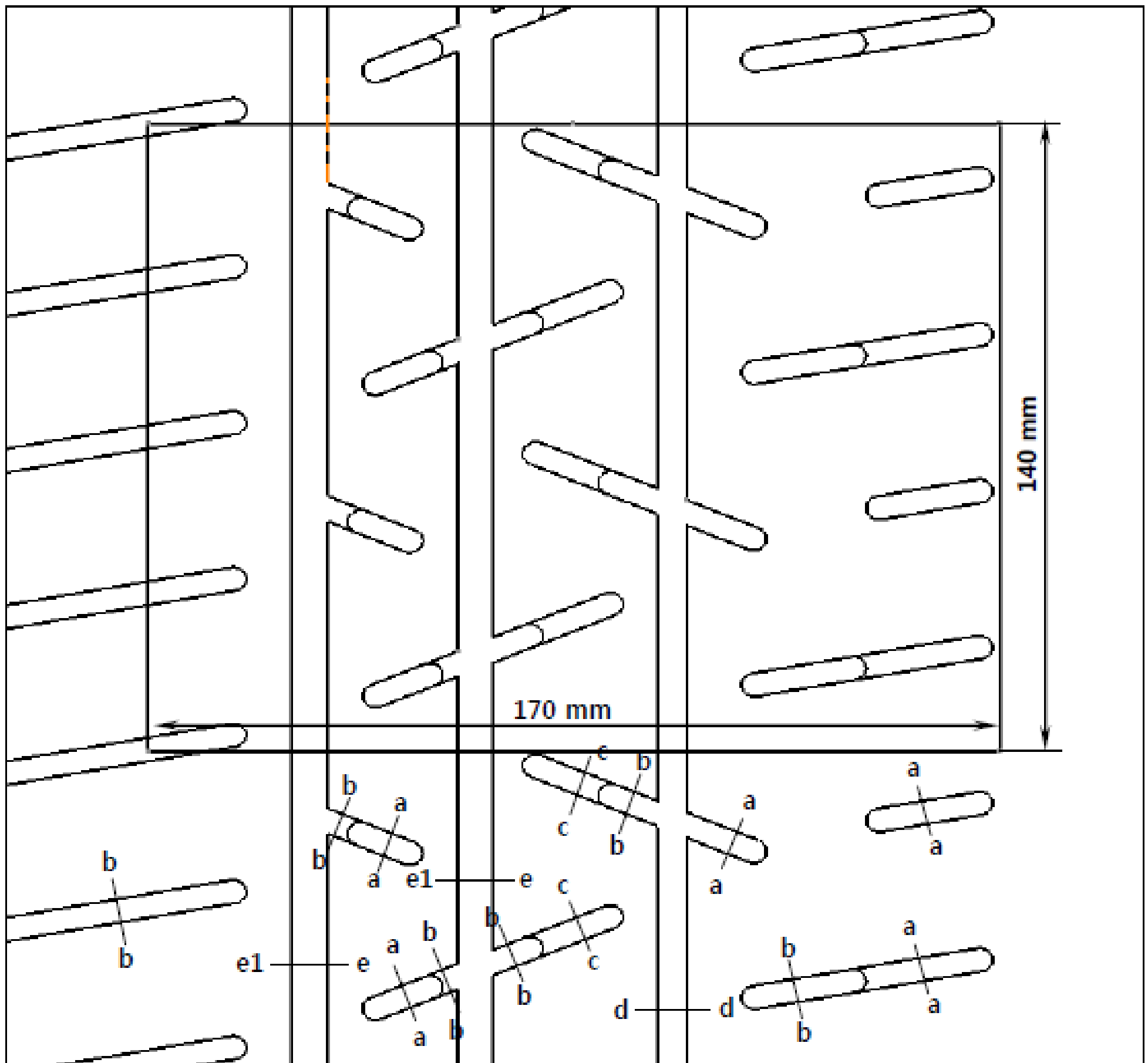
Empty Depth > 1.8mm : 22.95%

GROOVE SURFACE AREA = 358456 mm<sup>2</sup>

Control Surface = 20720 mm<sup>2</sup>

# 15" - 200/580R15

Product : Ventus Z205



Sec. a-a	Sec. b-b	Sec. c-c
Sec. d-d	Sec. e-e1	

## Class 9" (Rim 7.0")

Empty Depth > 5.5mm : 17.06%

Empty Depth > 1.8mm : 25.07%

Control Surface = 23800 mm<sup>2</sup>



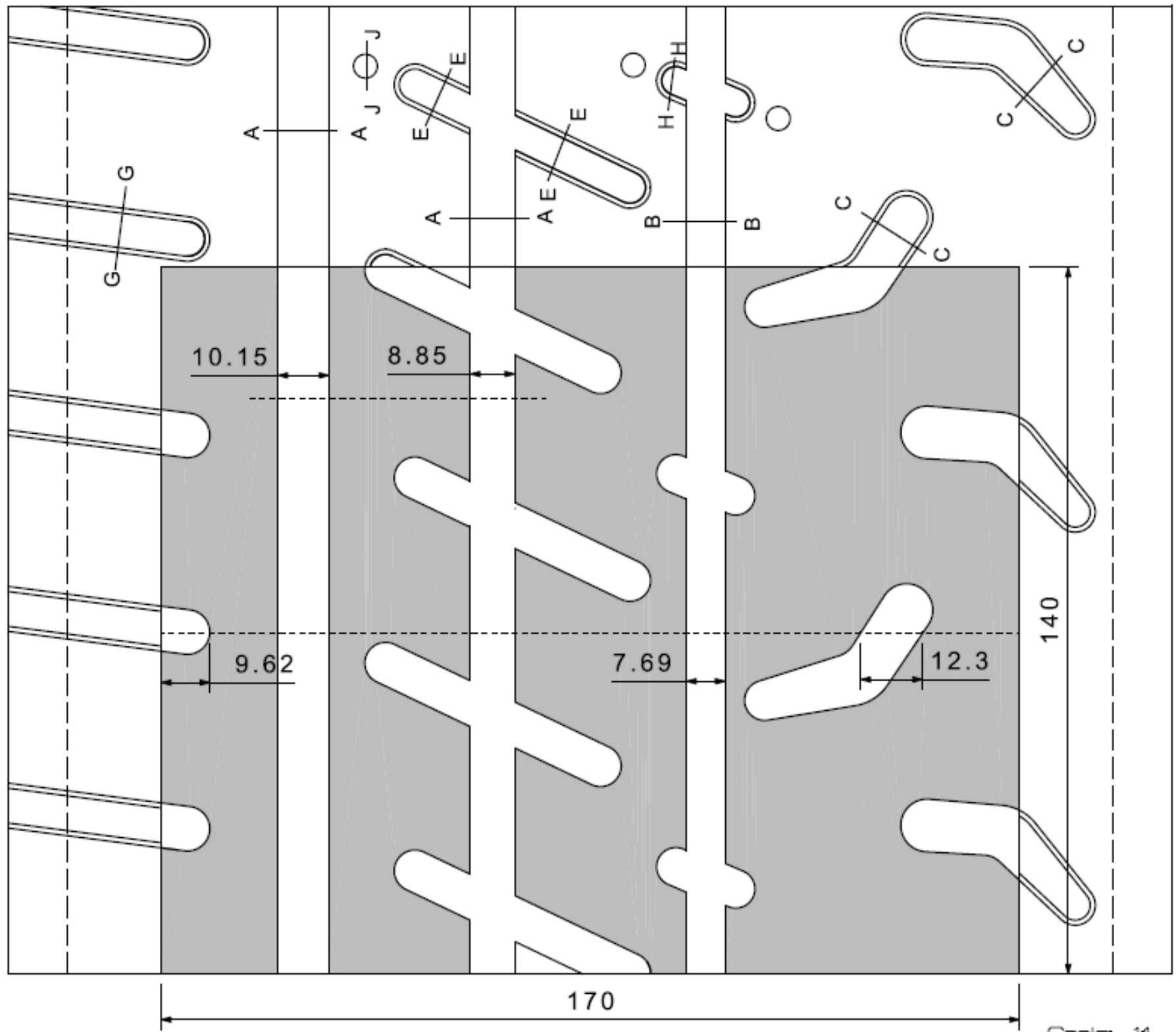
# KUMHO TYRES

## 18" - 210/645R18

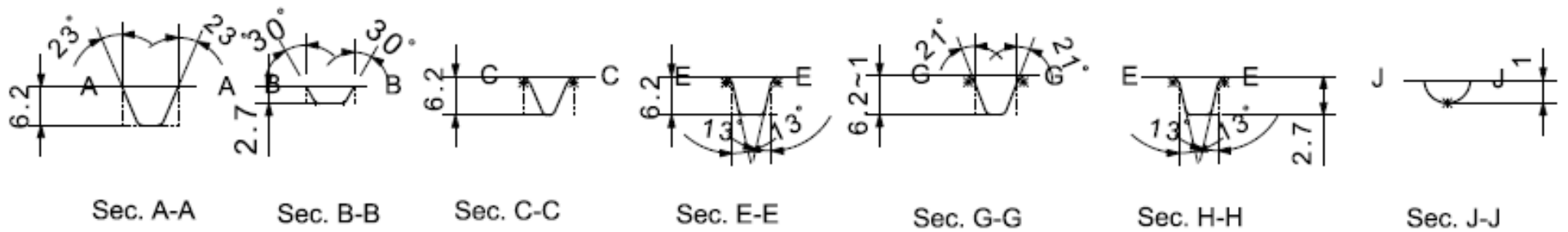
Moulded tyre for FIA homologation  
Size : 210/645R18  
Pattern : TM01

On the basis of a tread pattern width of 170mm and circumference of 140mm

- \* The surface taken up by grooves at least 5.5 mm deep, with a maximum angle of 60° between the block in section and 2mm wide, must occupy at least 17% of the total surface.
- \* The surface taken up by grooves at least 1.8 mm deep, with a maximum angle of 60° between the block in section and 2mm wide, must occupy at least 21.5% of the total surface.
- \* The sum of the width of the grooves encountered by a radial line must be at least 16mm
- \* At least 2 circumferential lines / Minimum total width of circumferential lines at least 12mm



Groove Area by 170 x 140 at least 1.8mm deep : 5815.4mm<sup>2</sup>  
 Void % : 24.4%  
 Groove Area by 170 x 140 at least 5.5mm deep : 4580.7mm<sup>2</sup>  
 Void % : 19.2%





# KUMHO TYRES

## 18" - 210/645R18

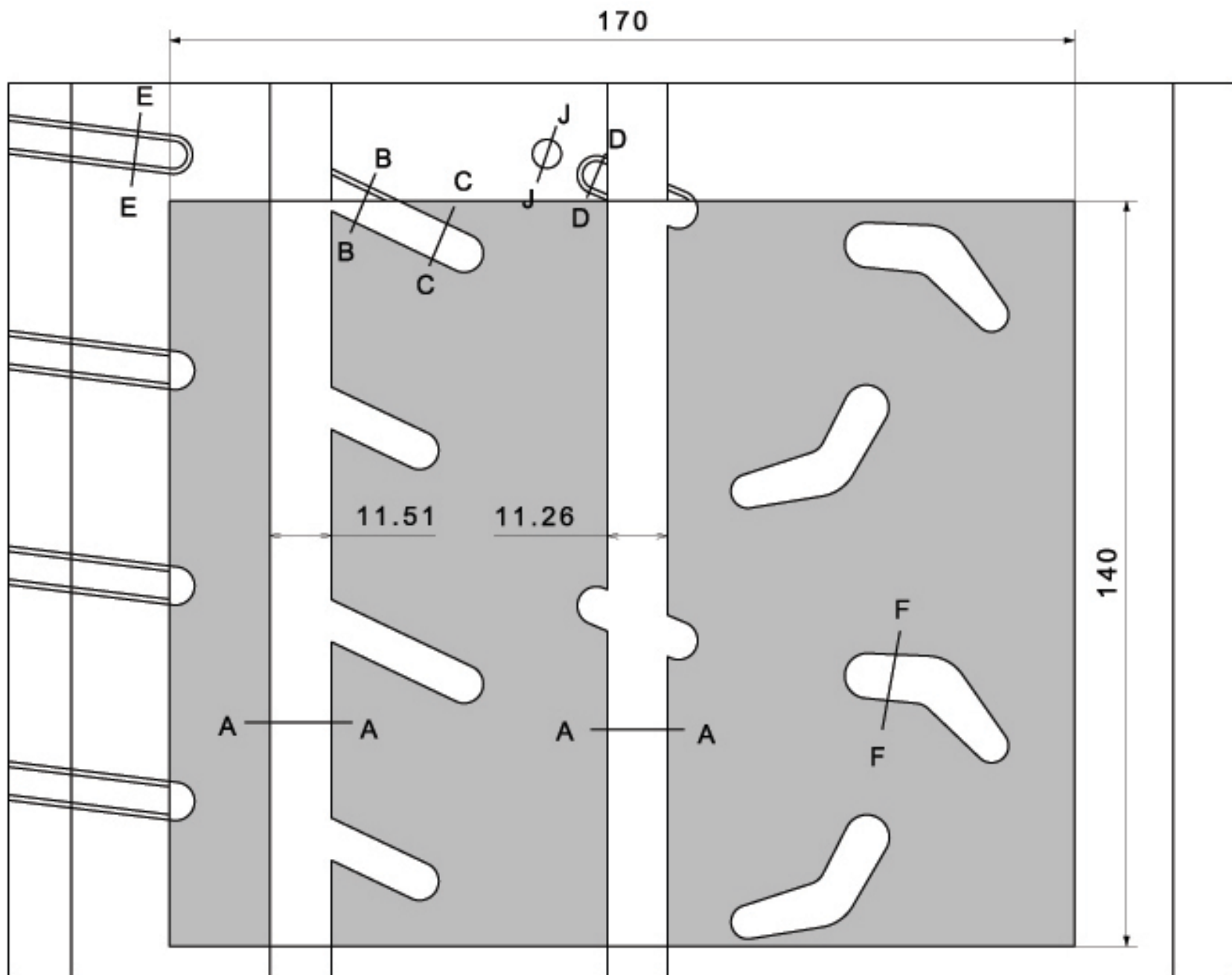
### KUMHO TIRE

Moulded tyre for FIA homologation

Size : 210/645R18

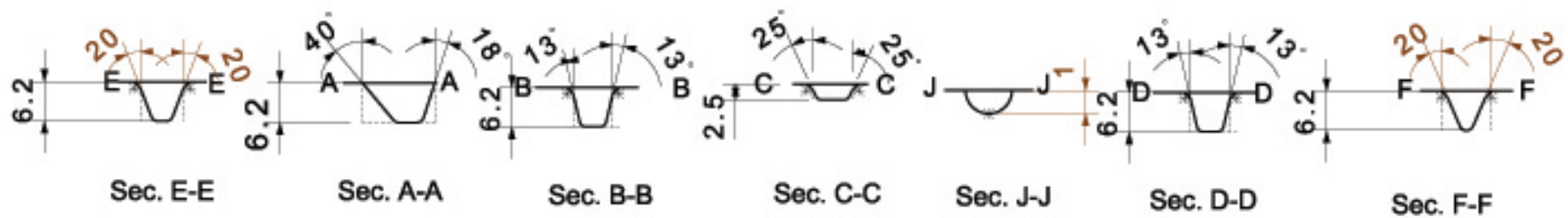
Pattern : TM02

- On the basis of a tread pattern width of 170mm and circumference of 140mm
- The surface taken up by grooves at least 5.5 mm deep, with a maximum angle of 60° between the block in section and 2mm wide, must occupy at least 17% of the total surface.
  - The surface taken up by grooves at least 1.8 mm deep, with a maximum angle of 60° between the block in section and 2mm wide, must occupy at least 21.5% of the total surface.
  - The sum of the width of the grooves encountered by a radial line must be at least 16mm
  - At least 2 circumferential lines / Minimum total width of circumferential lines at least 12mm



Scale 1:1

Groove Area by 170 x 140 at least 1.8mm deep : 5159mm<sup>2</sup>  
 Void % : 21.7%  
 Groove Area by 170 x 140 at least 5.5mm deep : 4446mm<sup>2</sup>  
 Void % : 18.7%





# KUMHO TYRES

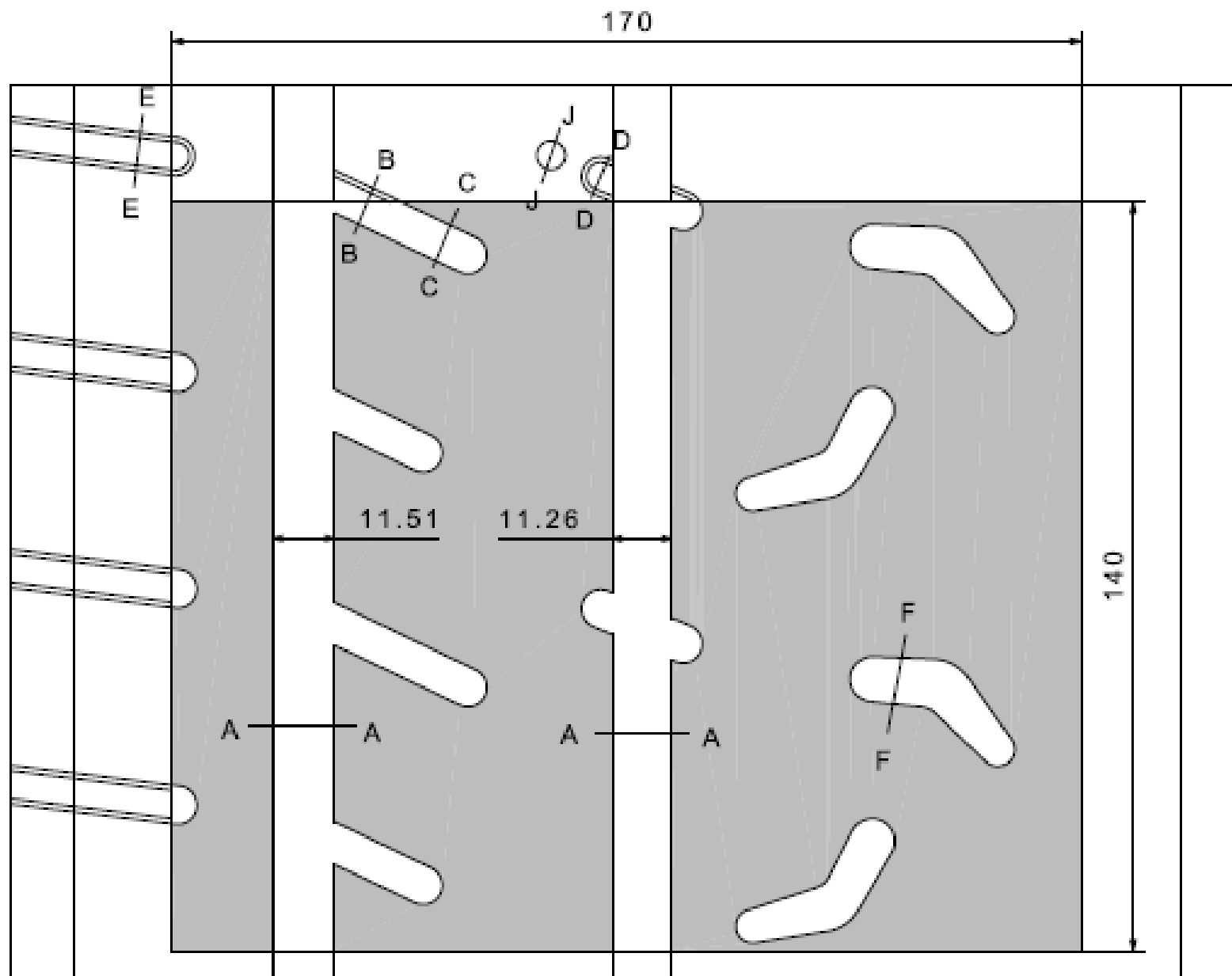
## 18" - 210/645R18

### KUMHO TIRE

Moulded tyre for FIA homologation  
Size : 210/645R18  
Pattern : TM02

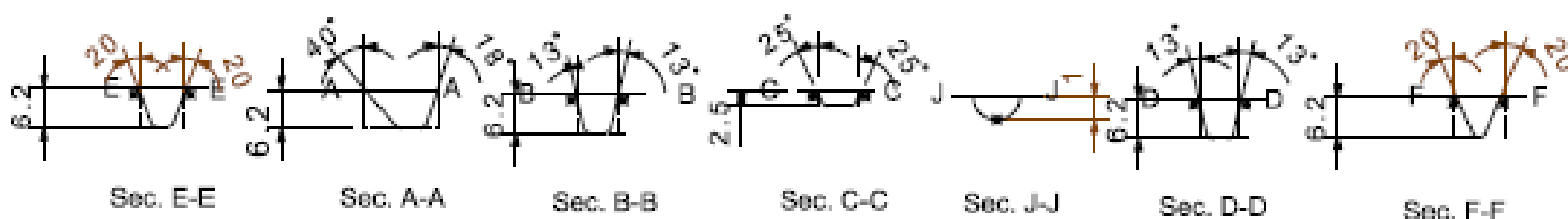
On the basis of a tread pattern width of 170mm and circumference of 140mm

- The surface taken up by grooves at least 5.5 mm deep, with a maximum angle of 60° between the block in section and 2mm wide, must occupy at least 17% of the total surface.
- The surface taken up by grooves at least 1.8 mm deep, with a maximum angle of 60° between the block in section and 2mm wide, must occupy at least 21.5% of the total surface.
- The sum of the width of the grooves encountered by a radial line must be at least 16mm
- At least 2 circumferential lines / Minimum total width of circumferential lines at least 12mm



Scale 1:1

Groove Area by 170 x 140 at least 1.8mm deep : 5159mm<sup>2</sup>  
 Void % : 21.7%  
 Groove Area by 170 x 140 at least 5.5mm deep : 4446mm<sup>2</sup>  
 Void % : 18.7%





NEW

KUMHO TYRES

18" - 210/645R18

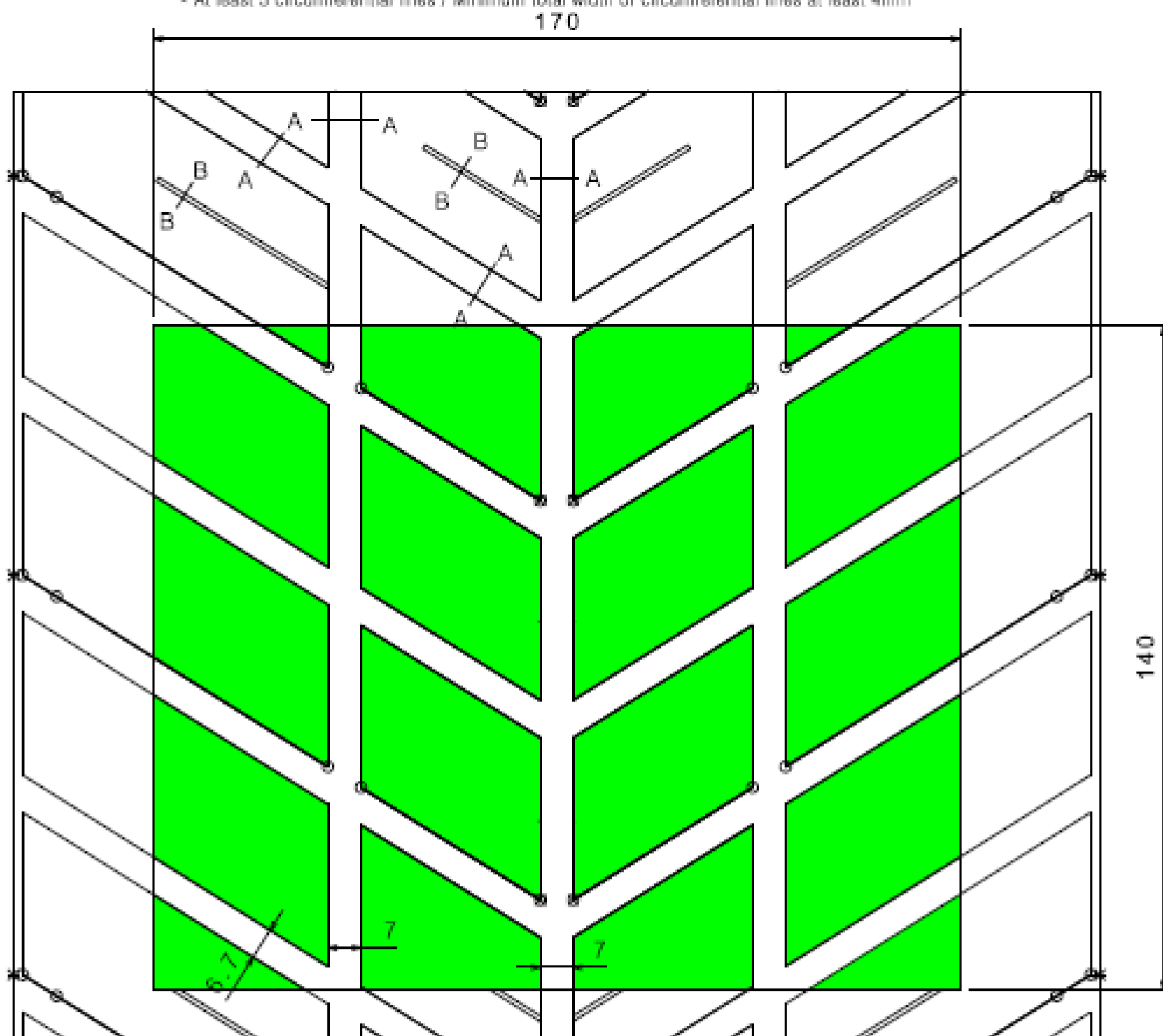
# KUMHO TIRE

Moulded tyre for FIA homologation

Size : 210/645R18

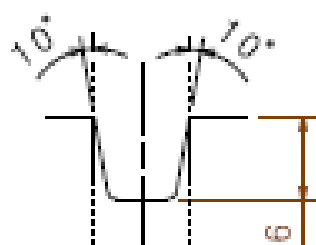
Pattern : TW03

- On the basis of a tread pattern width of 170mm and circumference of 140mm
- The surface taken up by grooves at least 5.5mm deep must occupy at least 27.5% of the total surface.
  - The sum of the width of the grooves encountered by a radial line must be at least 16mm
  - At least 3 circumferential lines / Minimum total width of circumferential lines at least 4mm

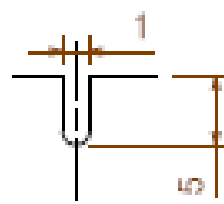


Scale: 1:1

Groove Area by 170 x 140 at least 5.5mm deep : 6789.4mm<sup>2</sup>  
 Void % : 28.5%



SEC.A-A



SEC.B-B



# KUMHO TYRES

## 17" - 190/630R17

### KUMHO TIRE

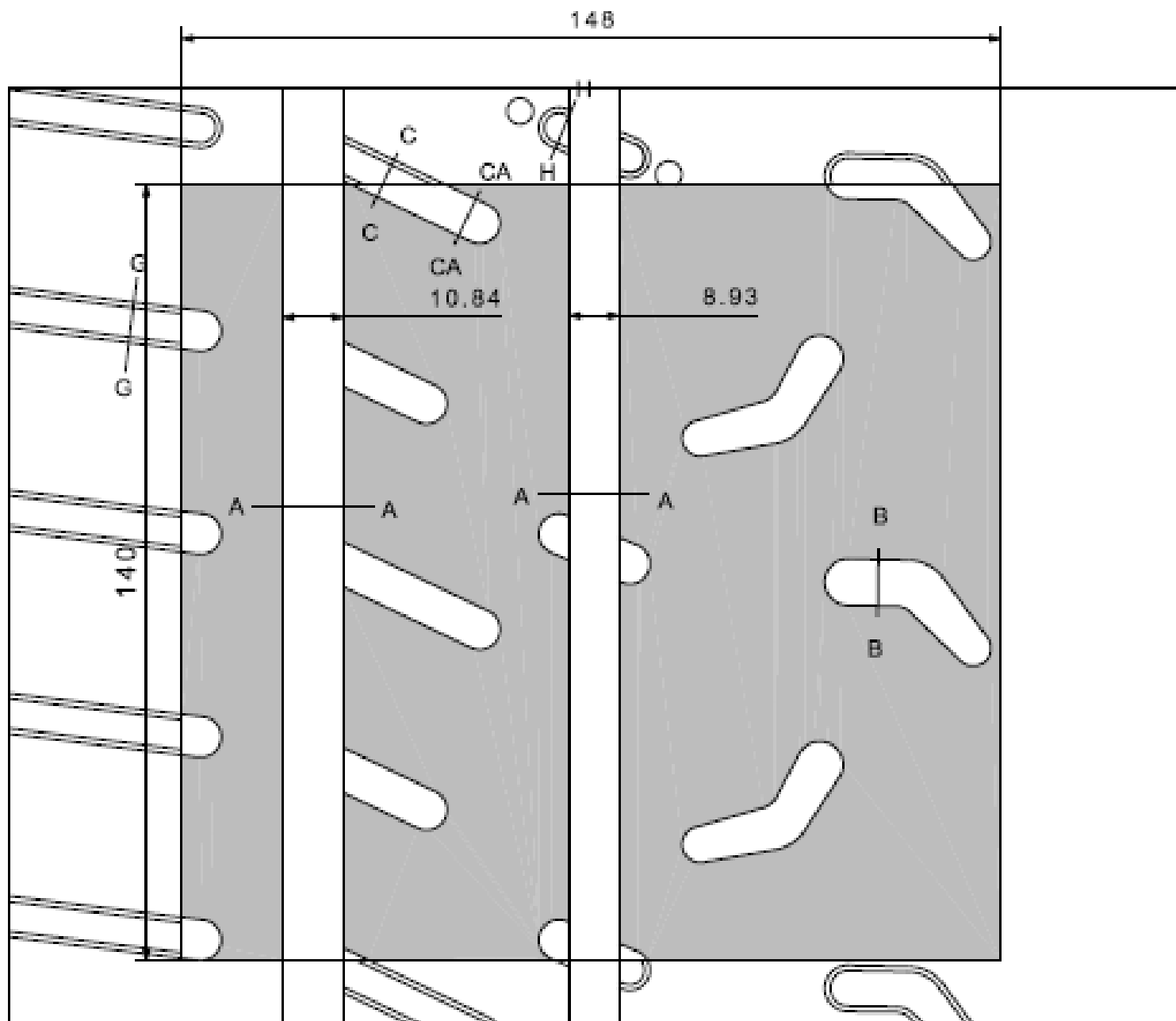
Moulded tyre for FIA homologation

Size : 190/630 R17

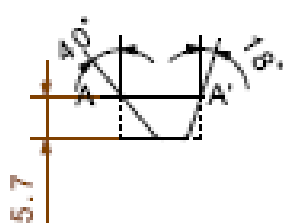
Pattern : TM02

On the basis of a tread pattern width of 148mm and circumference of 140mm

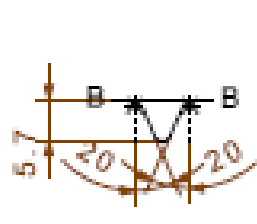
- The surface taken up by grooves at least 5.5 mm deep, with a maximum angle of 60° between the block in section and 2mm wide, must occupy at least 17% of the total surface.
- The surface taken up by grooves at least 1.8 mm deep, with a maximum angle of 60° between the block in section and 2mm wide, must occupy at least 21.5% of the total surface.
- The sum of the width of the grooves encountered by a radial line must be at least 16mm
- At least 2 circumferential lines / Minimum total width of circumferential lines at least 12mm



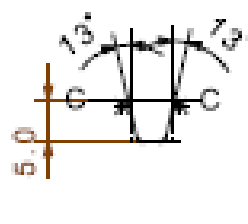
Groove Area by 148 x 140 at least 1.8mm deep : 4579.1mm<sup>2</sup>  
 Void % : 22.1%  
 Groove Area by 148 x 140 at least 5.5mm deep : 3688.1mm<sup>2</sup>  
 Void % : 17.8%



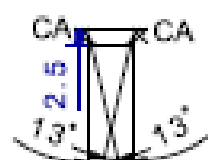
Sec. A-A'



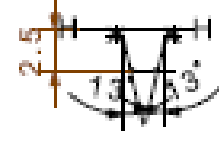
Sec. B-B



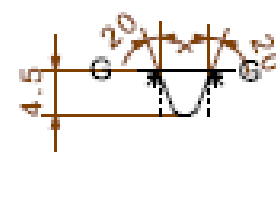
Sec. C-C



Sec. CA-CA



Sec. H-H



Sec. G-G



# KUMHO TYRES

## 16" - 190/600R16

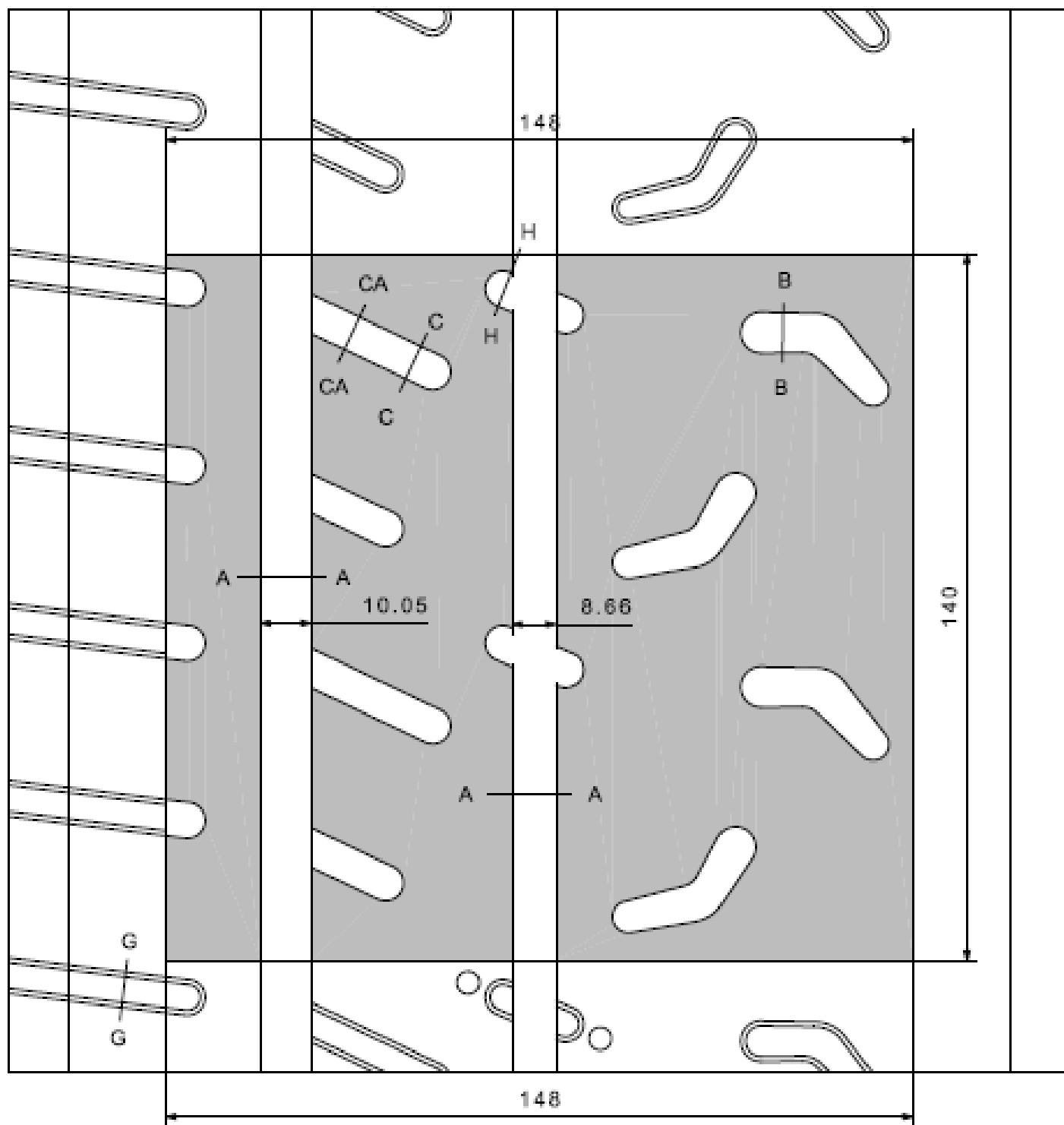
# KUMHO TIRE

Moulded tyre for FIA homologation

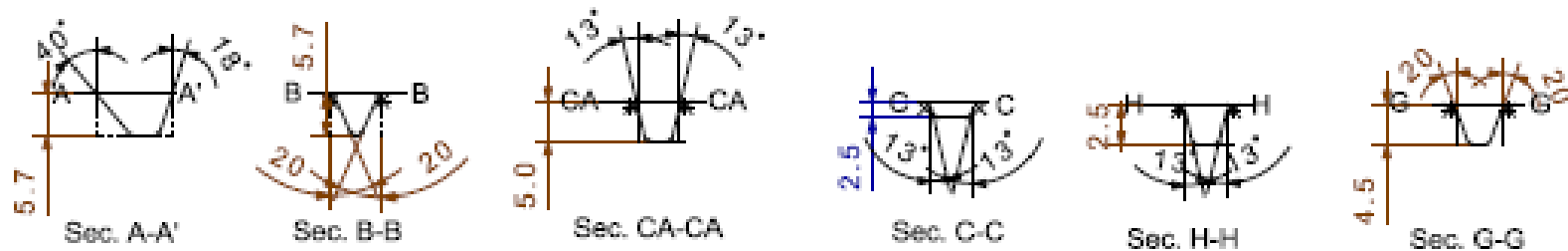
Size : 190/600 R16

Pattern : TM02

- On the basis of a tread pattern width of 148mm and circumference of 140mm
- The surface taken up by grooves at least 5.5 mm deep, with a maximum angle of 60° between the block in section and 2mm wide, must occupy at least 17% of the total surface.
  - The surface taken up by grooves at least 1.8 mm deep, with a maximum angle of 60° between the block in section and 2mm wide, must occupy at least 21.5% of the total surface.
  - The sum of the width of the grooves encountered by a radial line must be at least 16mm
  - At least 2 circumferential lines / Minimum total width of circumferential lines at least 12mm



Groove Area by 148 x 140 at least 1.8mm deep : 4579.1mm<sup>2</sup>  
 Void % : 22.1%  
 Groove Area by 148 x 140 at least 5.5mm deep : 3584.5mm<sup>2</sup>  
 Void % : 17.3%







# KUMHO TYRES

## 15" - 180/580R15

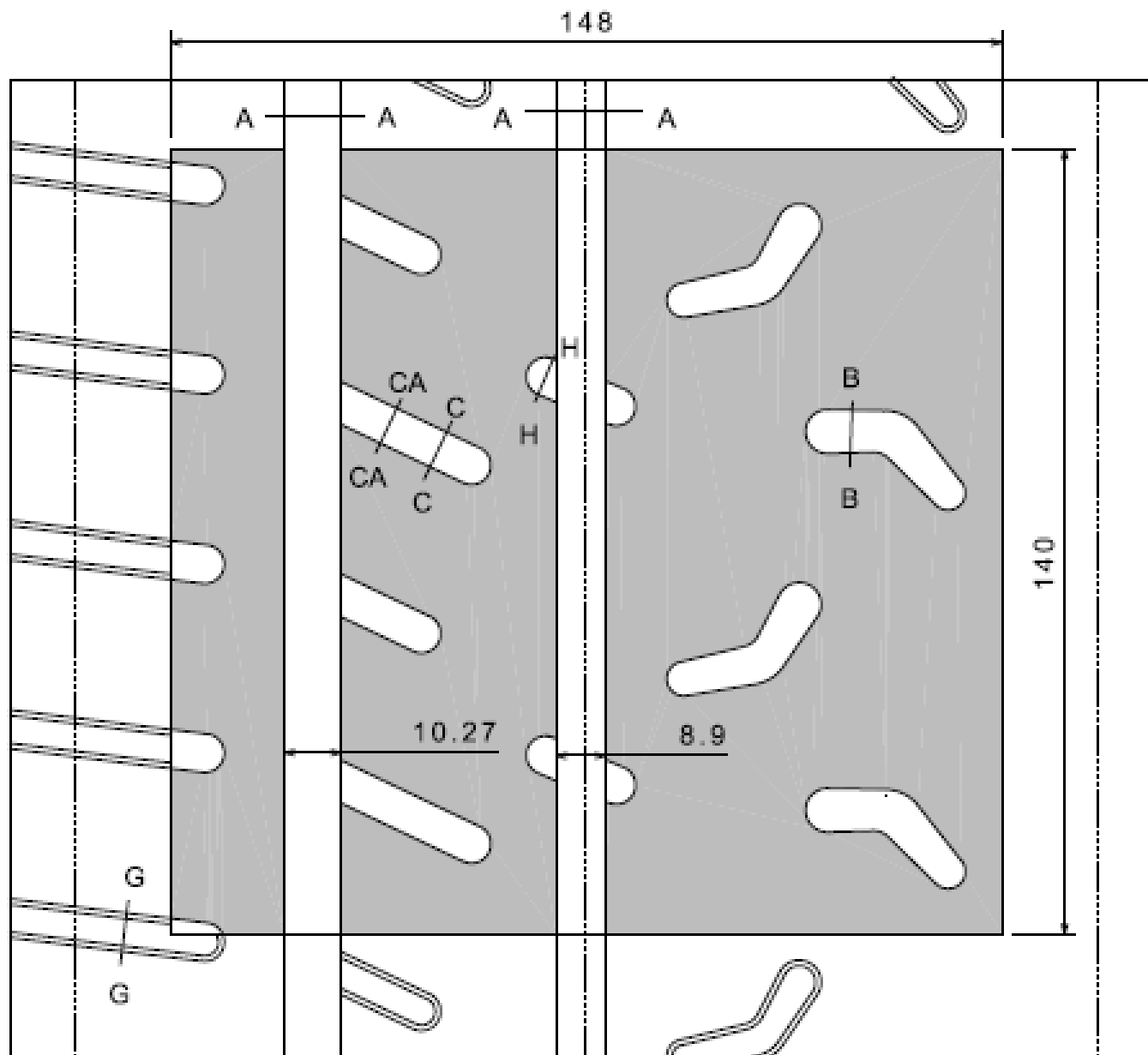
### KUMHO TIRE

Moulded tyre for FIA homologation

Size : 180/580 R15

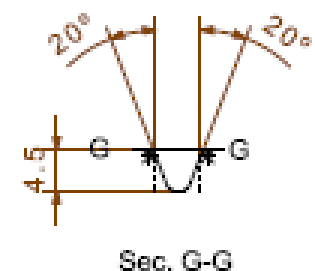
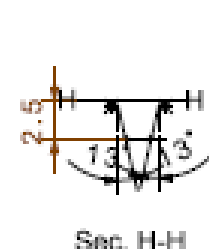
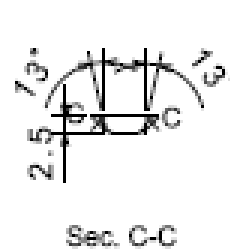
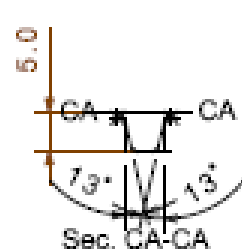
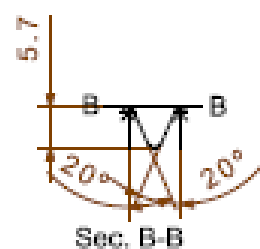
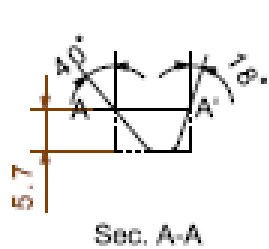
Pattern : TM02

- On the basis of a tread pattern width of 148mm and circumference of 140mm
- The surface taken up by grooves at least 5.5 mm deep, with a maximum angle of 60° between the block in section and 2mm wide, must occupy at least 17% of the total surface.
  - The surface taken up by grooves at least 1.8 mm deep, with a maximum angle of 60° between the block in section and 2mm wide, must occupy at least 21.5% of the total surface.
  - The sum of the width of the grooves encountered by a radial line must be at least 16mm
  - At least 2 circumferential lines / Minimum total width of circumferential lines at least 12mm

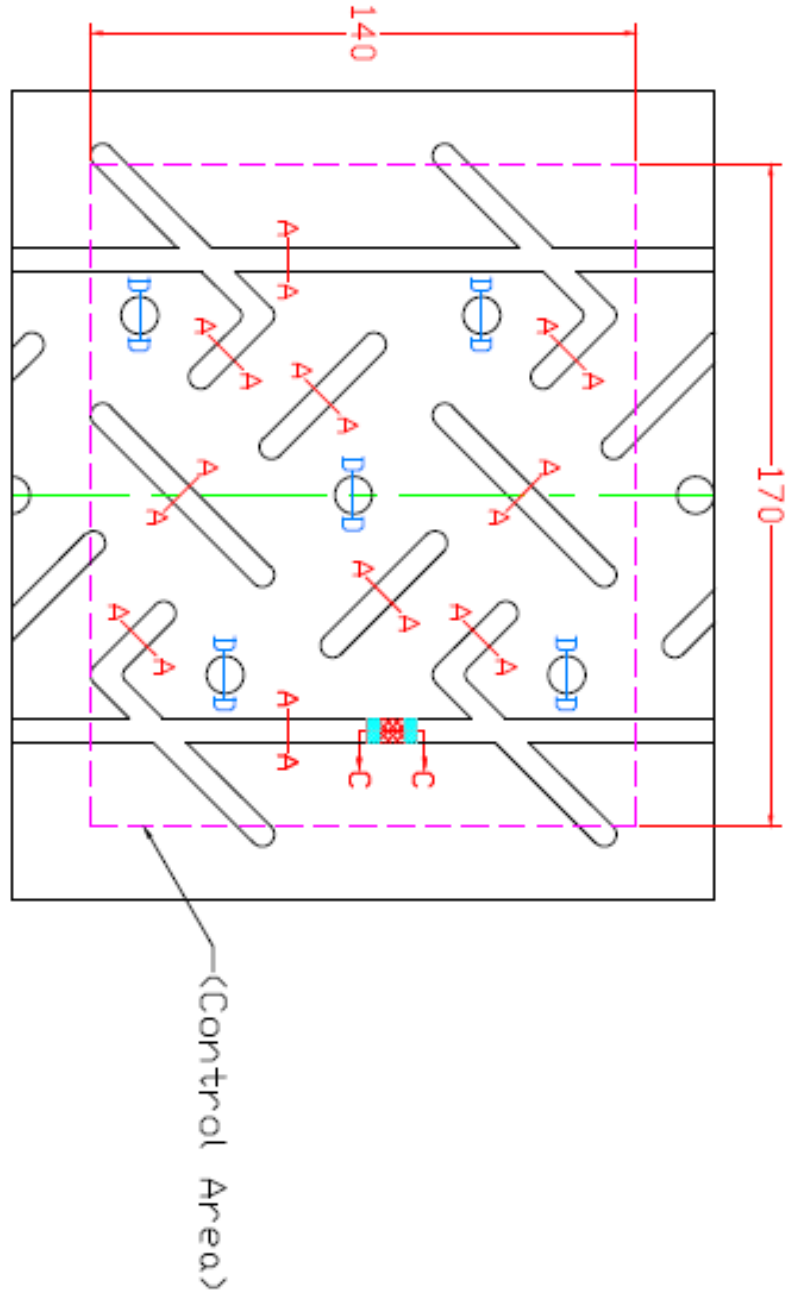


Scale 1:1

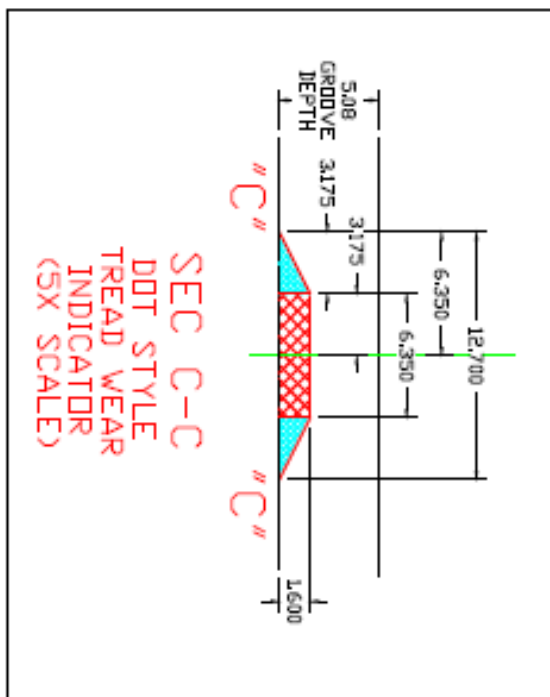
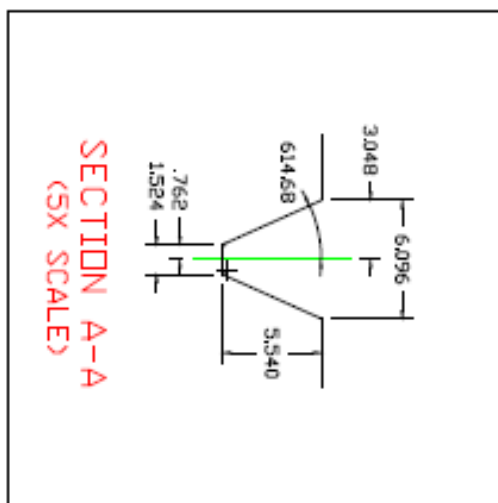
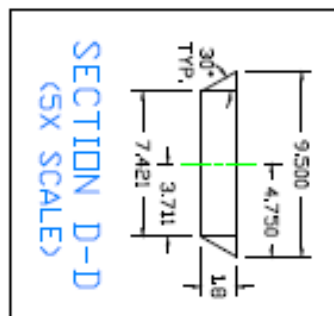
Groove Area by 148 x 140 at least 1.8mm deep : 4599.8mm<sup>2</sup>  
 Void % : 22.2%  
 Groove Area by 148 x 140 at least 5.5mm deep : 3563.8mm<sup>2</sup>  
 Void % : 17.2%



<UNITS = METRIC>



CONTROL SURFACE =  $23,800\text{mm}^2$   
 GROOVES  $\rightarrow$   $5.5\text{mm} = 4,797.71\text{mm}^2 = 20.16\%$   
 GROOVES  $\geq 1.8\text{mm} = 5,152.09\text{mm}^2 = 21.65\%$



REV 1 -

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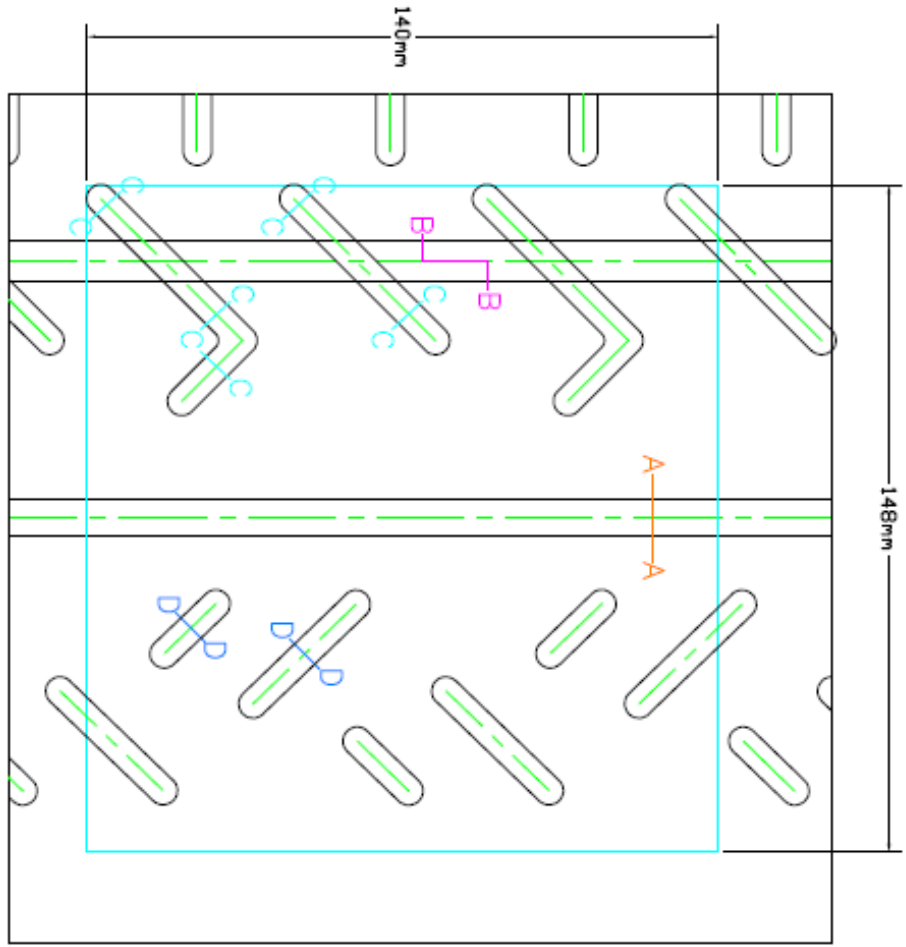
**Hoosier** RACING TIRE CORP.  
LAKEVILLE, INDIANA

F.I.A. COMPLIANCE FOR '200/650R18'  
ROAD RALLY

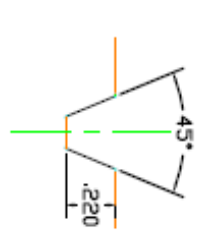
S/N 4770

DRAWN BY: TDC APPROVED BY: XXX CHECKED BY: XXX  
 DATE: 03/06/2015 DATE: XX/XX/XXXX DATE: XX/XX/XXXX

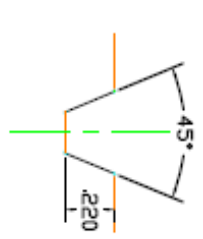
SCALE: 1:1 SHEET: 2 OF 2



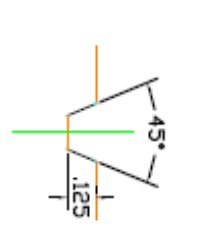
CONTROL SURFACE =  $20,720\text{mm}^2$   
 GROOVES  $>5.5\text{mm}$  DEEP =  $3617.7\text{mm}^2$  = 17.46%  
 GROOVES  $>1.8\text{mm}$  DEEP =  $4638.2\text{mm}^2$  = 22.39%



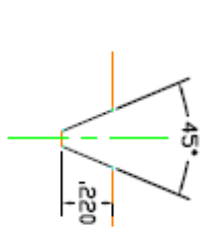
SEC A-A  
(2X SCALE)



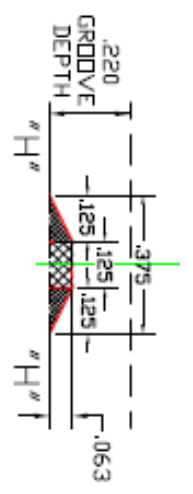
SEC B-B  
(2X SCALE)



SEC C-C  
(2X SCALE)

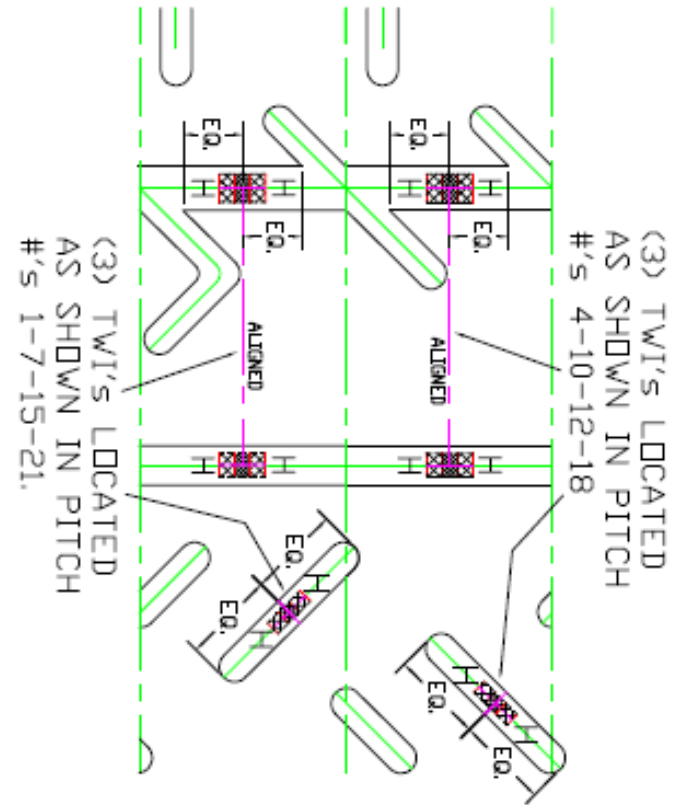


SEC D-D  
(2X SCALE)



SEC H-H  
DOT STYLE  
TREAD WEAR  
INDICATOR  
(3X SCALE)

(8) TWI'S PER CIRCUMFL GROOVE  
 AND TREAD ELEMENTS AS SHOWN.  
 (24) TOTAL FOR THE MOLD.



(3) TWI'S LOCATED  
AS SHOWN IN PITCH  
#S 4-10-12-18

(3) TWI'S LOCATED  
AS SHOWN IN PITCH  
#S 1-7-15-21.

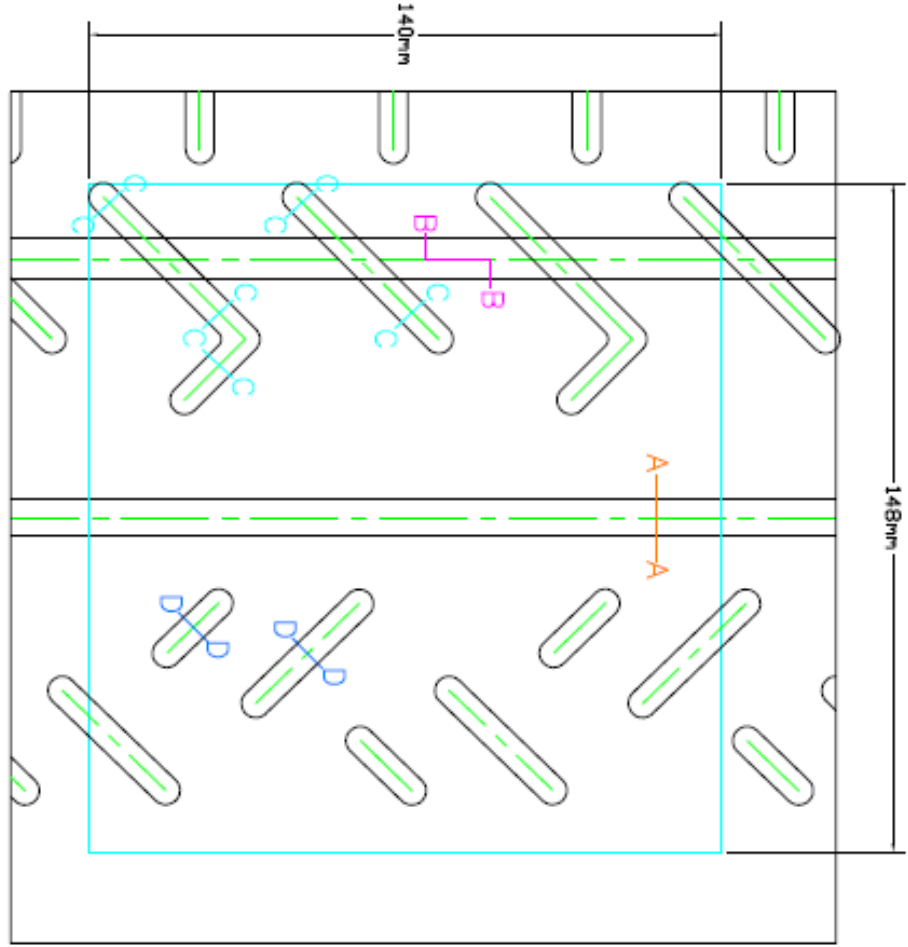
THIS IS A CAD DRAWING. MANUAL CHANGES ARE NOT PERMITTED.

**Hoosier** RACING TIRE CORP.  
LAKEVILLE, INDIANA

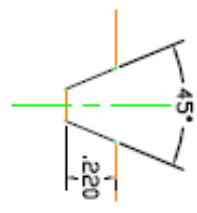
195/50R17 TARMAC RALLY S/N 4927

DRAWN BY	KSB	APPROVED BY	XXX	CHECKED BY	KSB
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FULL	INCH	FULL	MILL	FULL	MILL

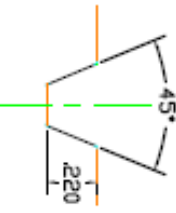
1 SHEET



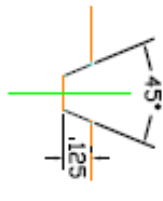
CONTROL SURFACE =  $20,720\text{mm}^2$   
 GROOVES  $>5.5\text{mm}$  DEEP =  $3617.7\text{mm}^2$  = 17.46%  
 GROOVES  $>1.8\text{mm}$  DEEP =  $4638.2\text{mm}^2$  = 22.39%



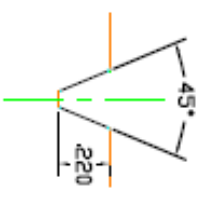
SEC A-A  
(2X SCALE)



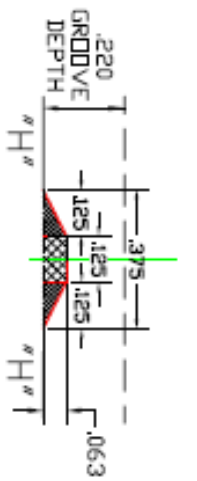
SEC B-B  
(2X SCALE)



SEC C-C  
(2X SCALE)



SEC D-D  
(2X SCALE)

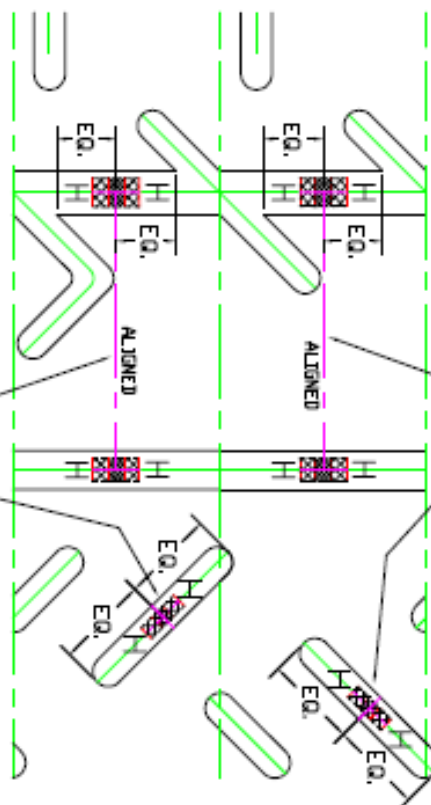


SEC H-H  
DOT STYLE  
TREAD WEAR  
INDICATOR  
(3X SCALE)

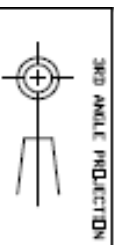
(8) TWI'S PER CIRCUMFL GROOVE  
AND TREAD ELEMENTS AS SHOWN.  
(24) TOTAL FOR THE MOLD.

(3) TWI'S LOCATED  
AS SHOWN IN PITCH  
#'S 4-10-12-18

(3) TWI'S LOCATED  
AS SHOWN IN PITCH  
#'S 1-7-15-21.



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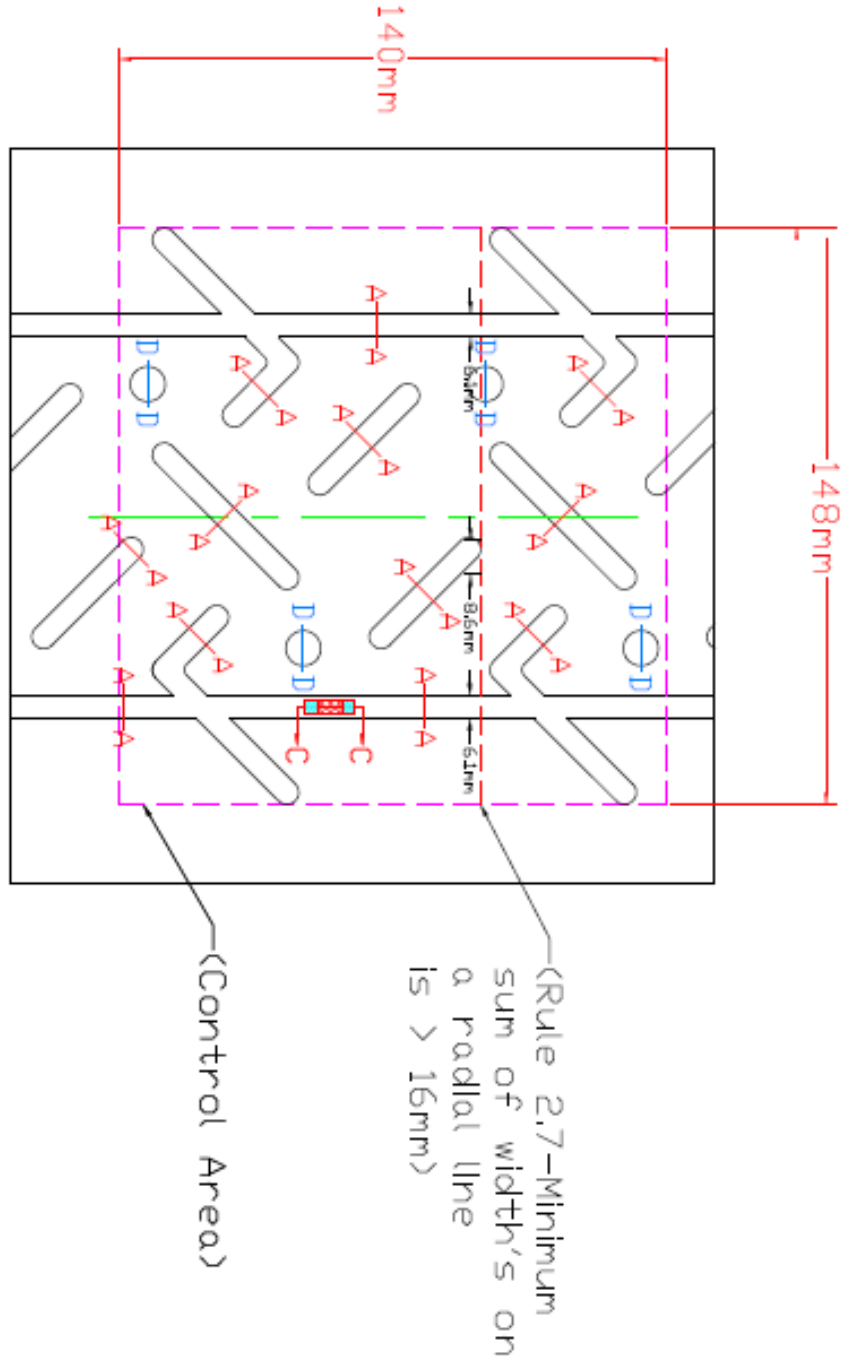
THIS IS A CAD DRAWING. MANUAL CHANGES ARE NOT PERMITTED.

**Hoosier** RACING TIRE CORP.  
LAKEVILLE, INDIANA

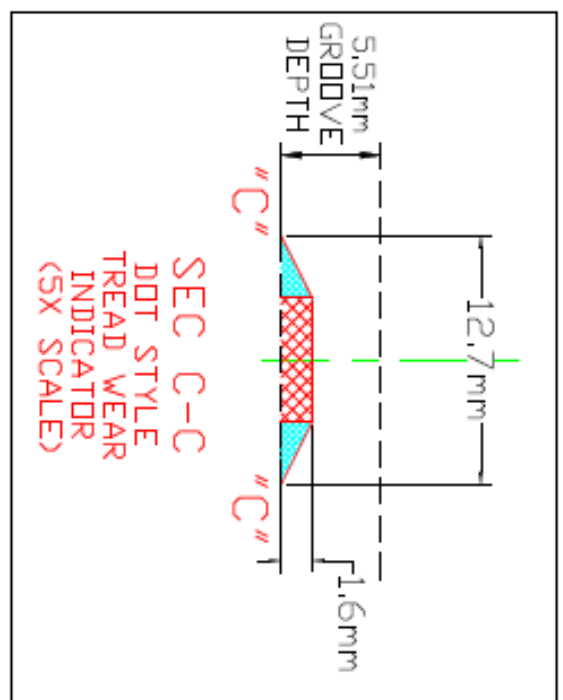
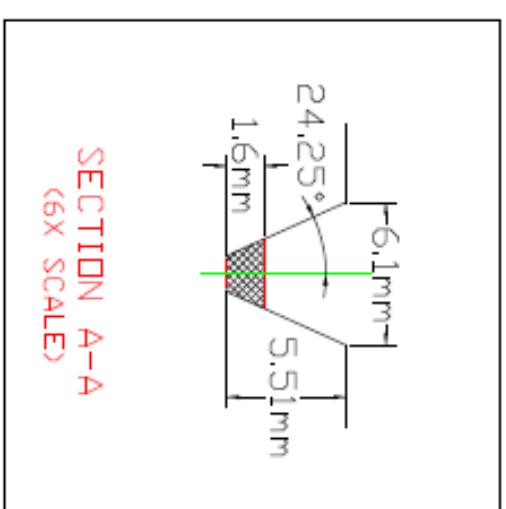
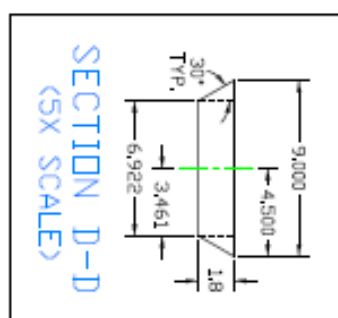
195/50R16 TARMAC RALLY

S/N 4926

DRAWN BY	KSB	APPROVED BY	XXX	CHECKED BY	KSB
DATE	04-09-2018	DATE	XX-XX-XXXX	DATE	04-09-2018
SCALE	1:1	SCALE	1:1	SCALE	1:1
FULL	1:1	FULL	1:1	FULL	1:1
SHEET	1	SHEET	1	SHEET	1



CONTROL SURFACE =  $20,720\text{mm}^2$   
 GROOVES  $> 5.5\text{mm}^2 = 4,277.4\text{mm}^2 = 20.64\%$   
 GROOVES  $\geq 1.8\text{mm}^2 = 4,531.9\text{mm}^2 = 21.87\%$



THIS IS A CAD DRAWING. MANUAL CHANGES ARE NOT PERMITTED.

**Hoosier** RACING TIRE CORP.  
LAKEVILLE, INDIANA

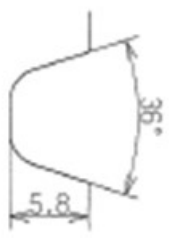
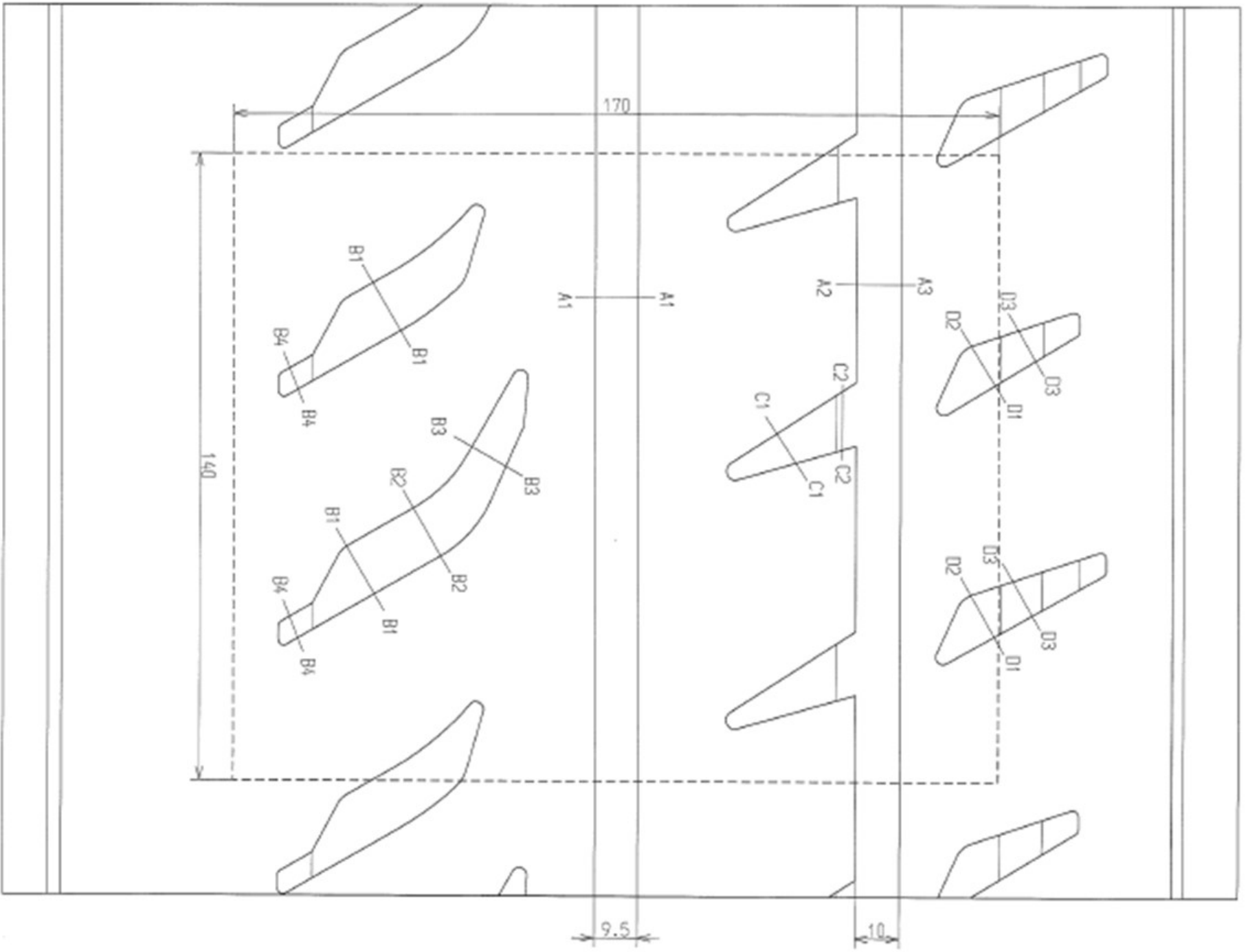
F.I.A. COMPLIANCE FOR '185/580R15'  
ROAD RALLY

S/N 4854

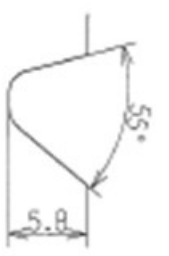
DRAWN BY:	TBC	APPROVED BY:	XXX	CHECKED BY:	TBC
DATE:	11/12/2015	DATE:	XX/XX/XXXX	DATE:	11/12/2015
SCALE:	AS SHOWN	SCALE:	---	SCALE:	---
FULL NAME:	HOOSIER RACING TIRE CORP.	FULL NAME:	---	FULL NAME:	---

11/12/2015 SHEET 1

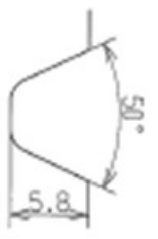
## 18" - 205/640R18



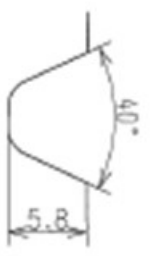
SEC.A1-A1



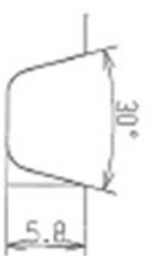
SEC.A2-A3



SEC.B1-B1



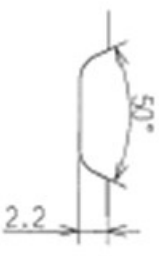
SEC.B2-B2



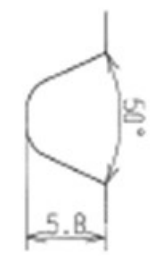
SEC.B3-B3



SEC.B4-B4



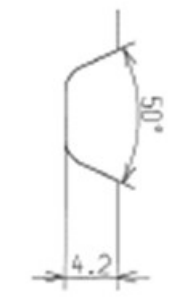
SEC.C1-C1



SEC.C2-C2



SEC.D1-D2



SEC.D3-D3

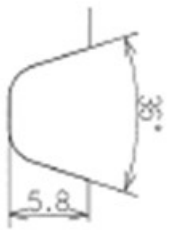
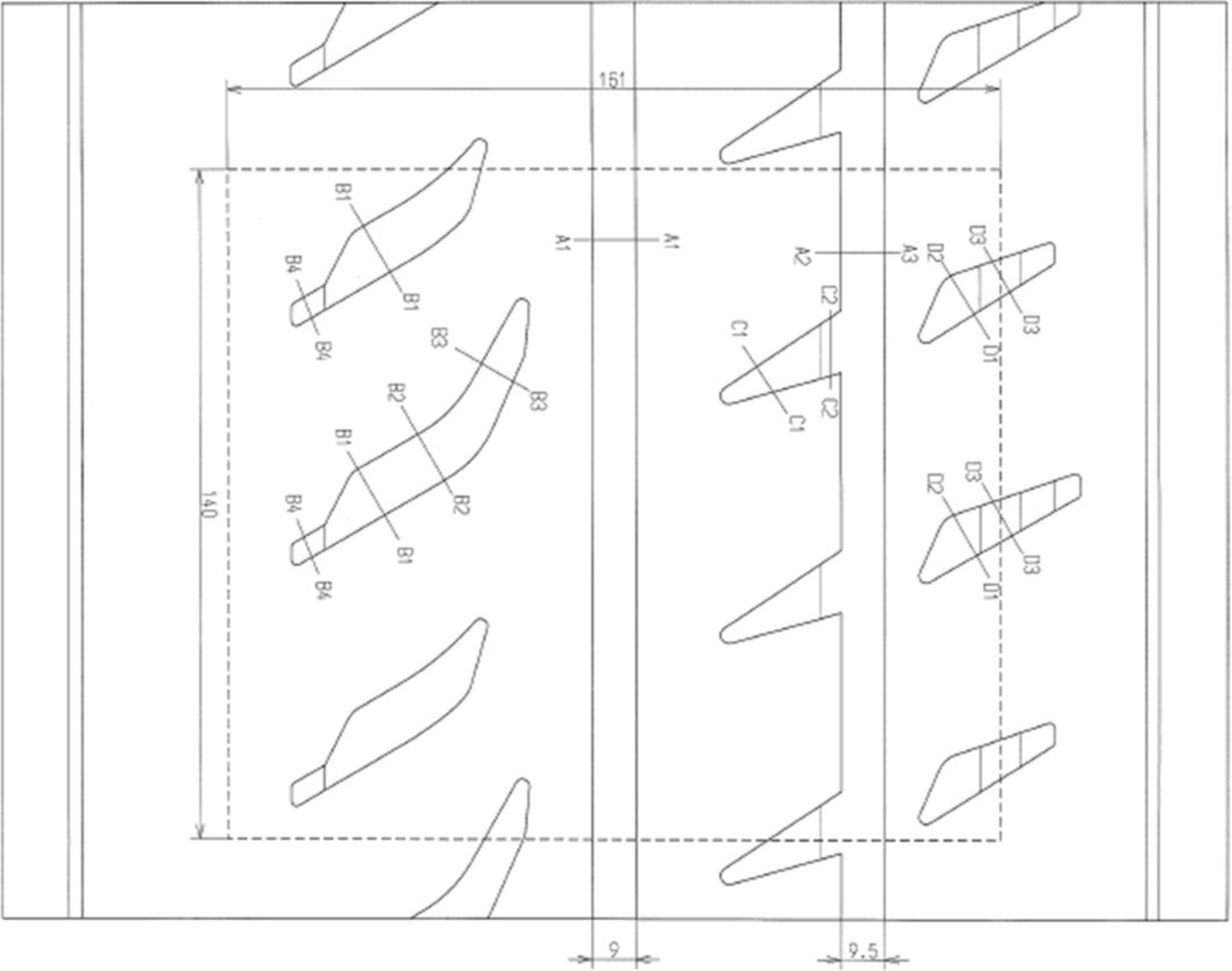
In the control area  
5.5mm grooves-18.2%  
Total grooves 22.3%

-----Control area(170x140)

PRODUCT NAME  
TOYO PROXES 888RT

SIZE 205/640R18

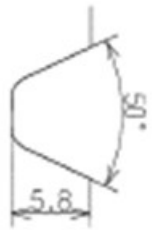
**15" - 185/580R15**



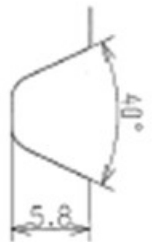
SEC.A1-A1



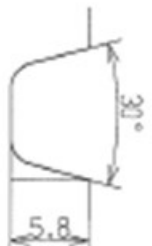
SEC.A2-A3



SEC.B1-B1



SEC.B2-B2



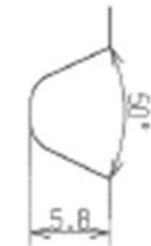
SEC.B3-B3



SEC.B4-B4



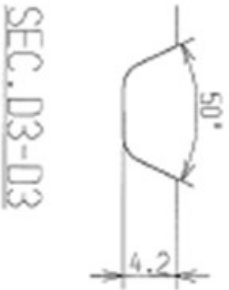
SEC.C1-C1



SEC.C2-C2



SEC.D1-D2



SEC.D3-D3

In the control area  
5.5mm grooves-18.2%  
Total grooves 22.3%

-----Control area(161x140)

PRODUCT NAME  
TOYO PROXES 888RT

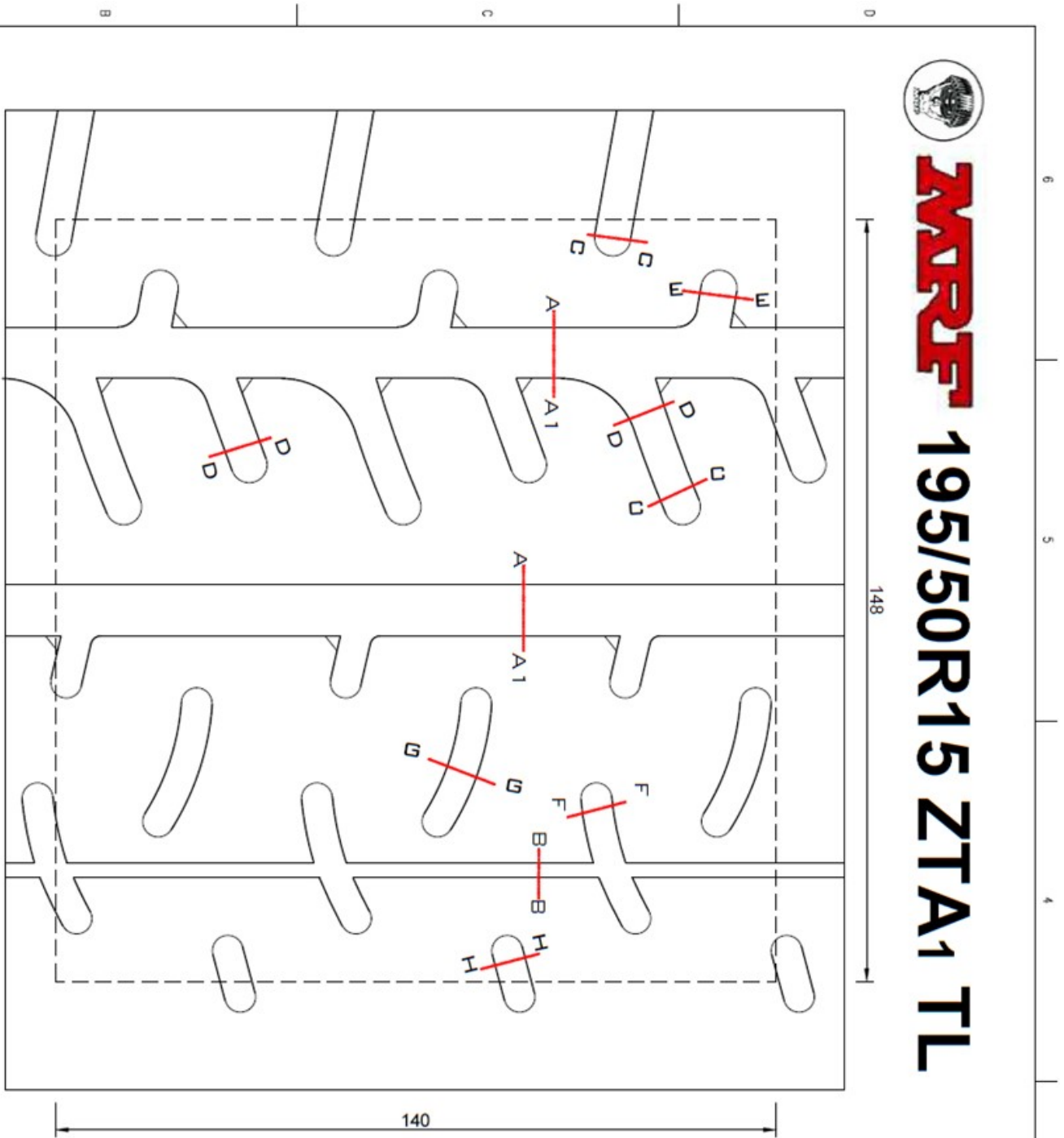
SIZE 185/580R15



**15" - 195/50R15**



**MRF 195/50R15 ZTA1 TL**



In the control area 148x140 mm (Indicated in the dotted line)

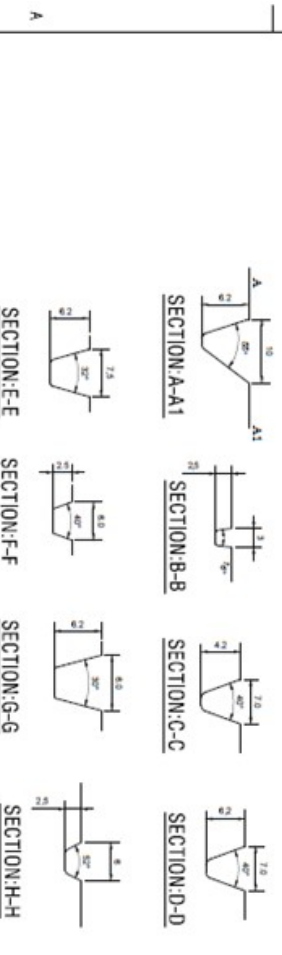
Grooved area within Min. 1.8 deep grooves > 21.5%

Grooved area within Min. 5.5 deep grooves > 17.0%

The total width of the circumferential line is >12 mm

The sum of the width of the grooves encountered by a radial line is >16 mm

**CLASS 8"  
RIM 6.5"**



All dimensions are in mm, unless otherwise specified

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NOT TO SCALE

S.No.	DATE	DESCRIPTIONS	DRAWN	EVPRD / PDM

CHENNAI		<b>MRF</b>		INDIA	
DRAWN	G Kirubhakar	APPROVED	T N Sundar	SCALE	
SIGNATURE	DE	EVPRD / PDM		NTS	
DATE	25.01.18		29.01.18		

**F.I.A COMPLIANCE FOR 195/50R15 ZTA1 TL**

CORPORATE TECHNICAL MOULD DESIGN	DRG No.	RR-195/50R15_0518	REVISION No.	00
SAP DOCUMENT TYPE:	SAP DOCUMENT No.		VER	

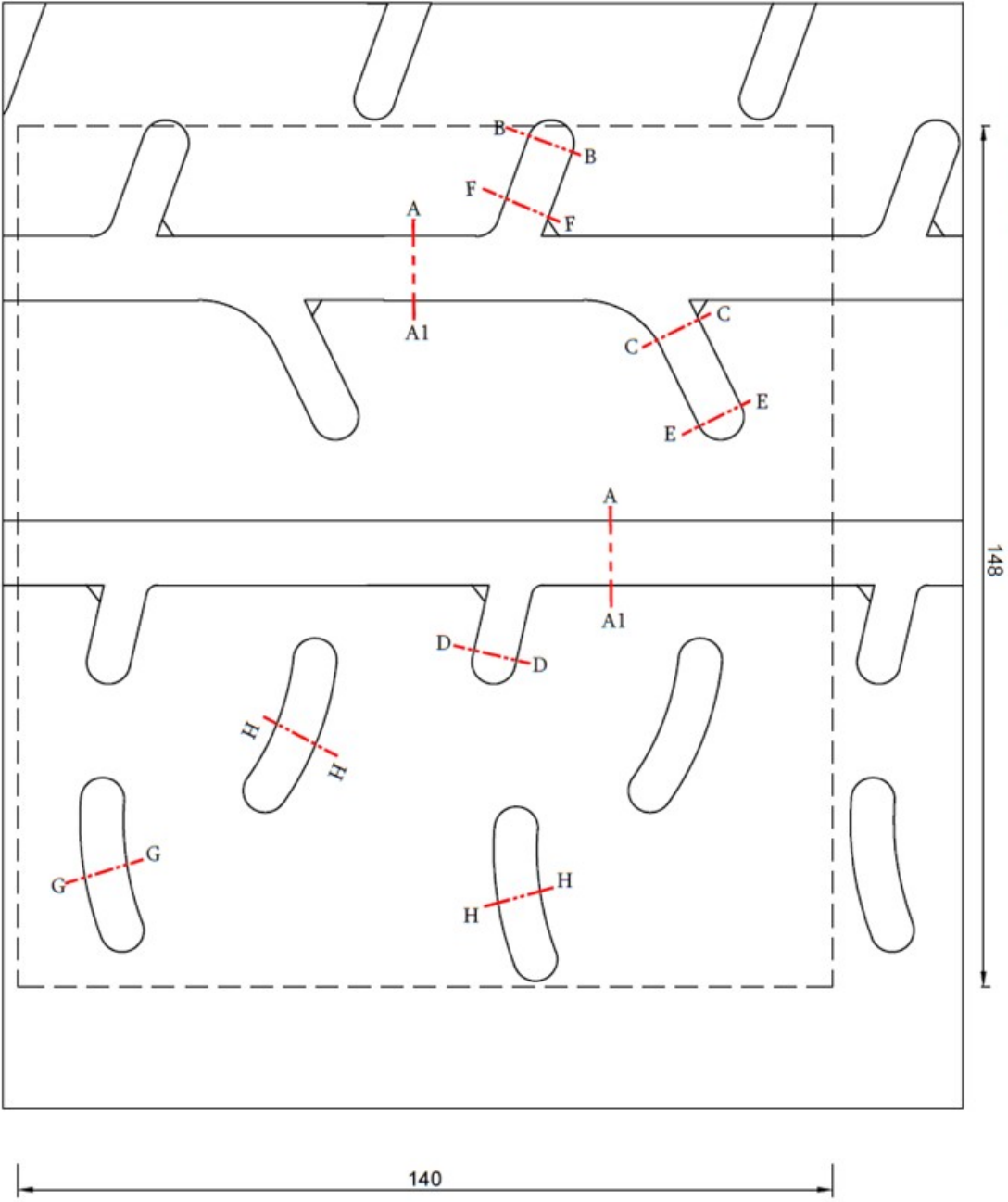




**16" - 195/50R16**



**MRF 195/50R16 ZTA1 TL**



In the control area 148x140 mm (Indicated in the dotted line)

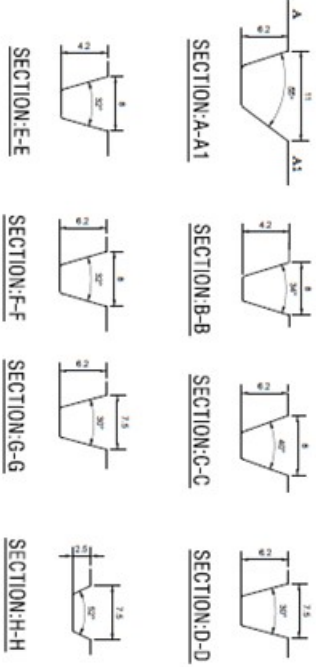
Grooved area within Min. 1.8 deep grooves > 21.5%

Grooved area within Min. 5.5 deep grooves > 17.0%

The total width of the circumferential line is > 12 mm

The sum of the width of the grooves encountered by a radial line is > 16 mm

**CLASS 8"  
RIM 6.5"**



IF IN DOUBT ASK...  
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NOT TO SCALE

S.No.	DATE	DESCRIPTIONS	DRAWN	EVPRD / PDM

CHENNAI **MRF** INDIA

DRAWN	APPROVED	SCALE
G Krubhakar	T N Sundar	NTS
DE	EVPRD / PDM	
DATE 25.01.18	29.01.18	

**F.I.A COMPLIANCE FOR 195/50R16 ZTA1 TL**

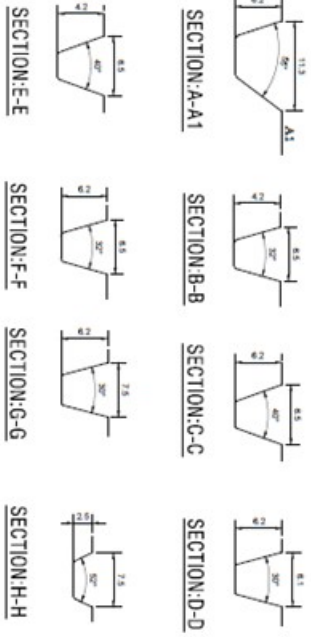
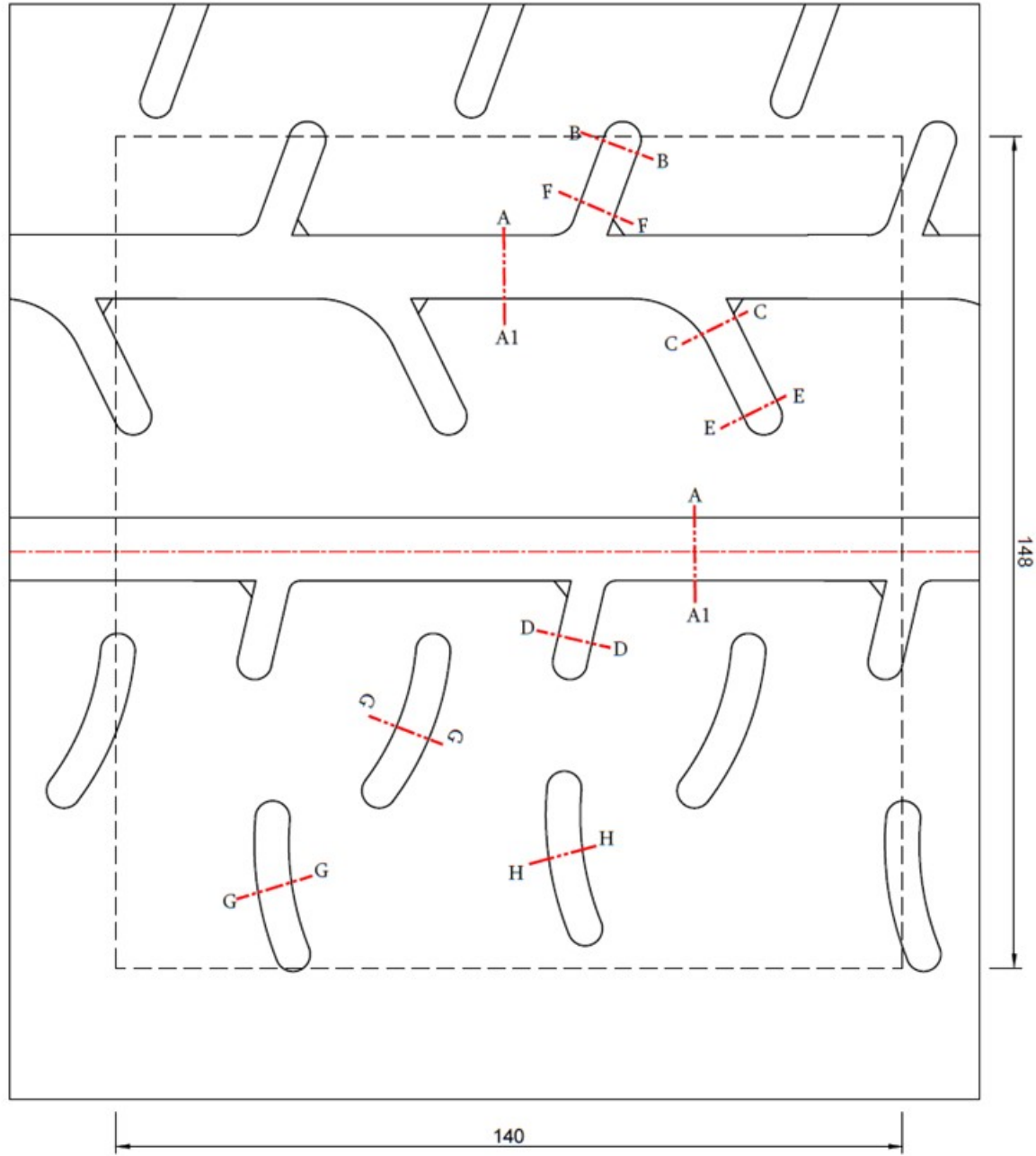
CORPORATE TECHNICAL MOULD DESIGN	DRG No.	RR-195/50R16_0518	REVISION No.	00
SAP DOCUMENT TYPE:	SAP DOCUMENT No.	VER		



**17" - 205/45R17**



**MRF 205/45R17 ZTA1 TL**



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NOT TO SCALE

In the control area 148x140 mm (Indicated in the dotted line)

Grooved area within Min. 1.8 deep grooves > 21.5%

Grooved area within Min. 5.5 deep grooves > 17.0%

The total width of the circumferential line is >12 mm

The sum of the width of the grooves encountered by a radial line is >16 mm

**CLASS 8"  
RIM 7.0"**

S.No.	DATE	DESCRIPTIONS	DRAWN	EVPRD / PDM

CHENNAI		INDIA	
DRAWN	G Kirubhakar	APPROVED	T N Sundar
SIGNATURE	DE	EVPRD / PDM	NTS
DATE	25.01.18	DATE	29.01.18

**F.I.A COMPLIANCE FOR 205/45R17 ZTA1 TL**

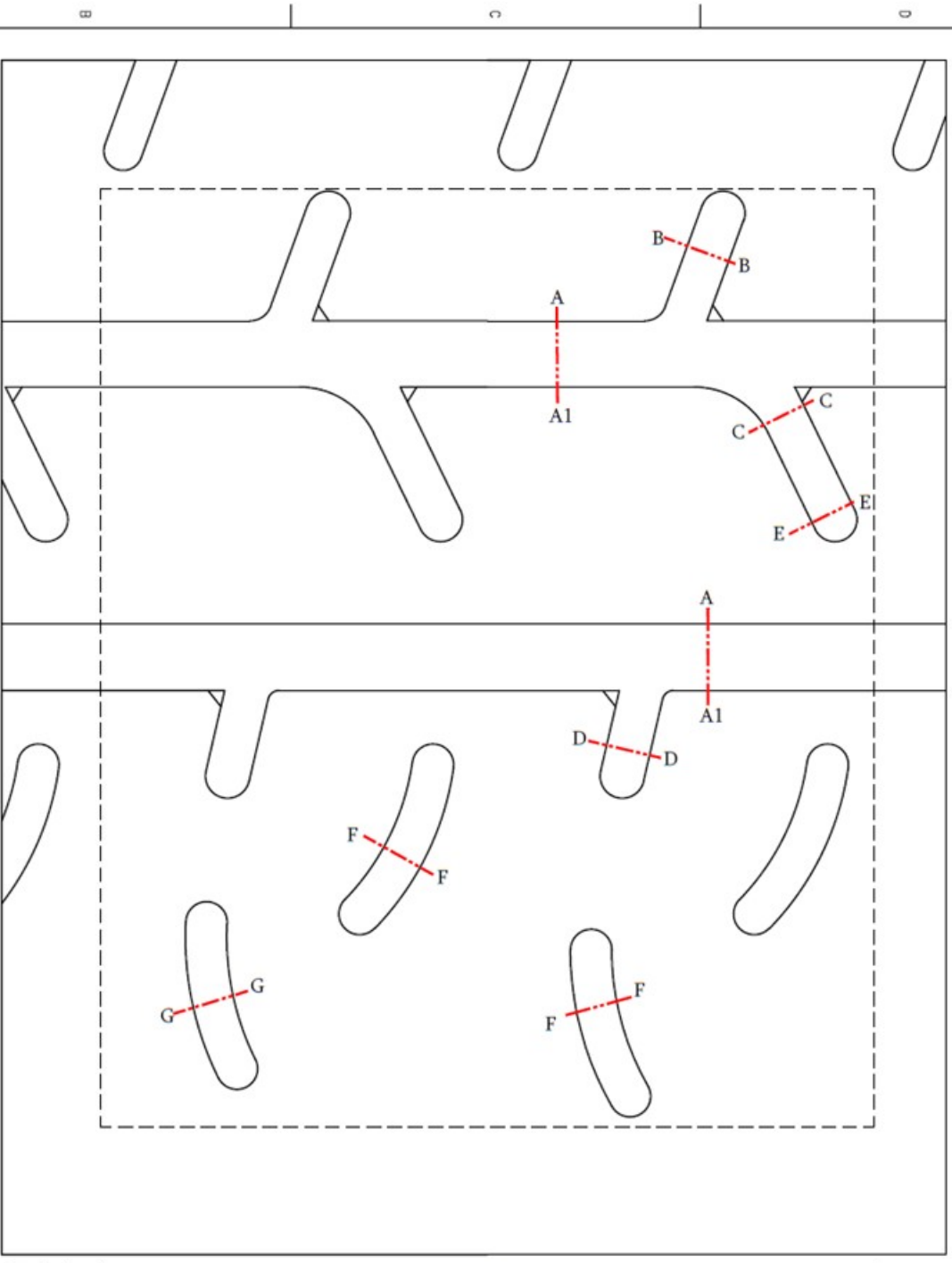
CORPORATE TECHNICAL MOULD DESIGN	DRG No.	RR-205/45R17_0518	REVISION No.	00
SAP DOCUMENT TYPE:	SAP DOCUMENT No.	VER		



**18" - 235/40R18**



**MRF 235/40R18 ZTA1 TL**



In the control area 170x140 mm (Indicated in the dotted line)

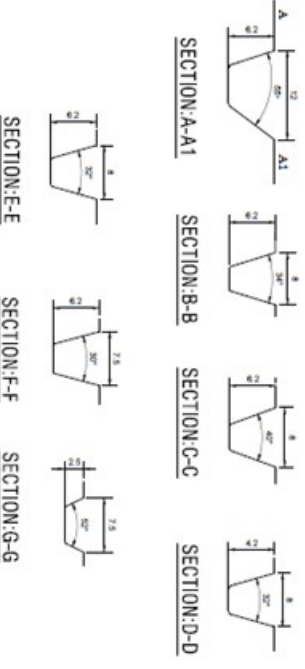
Grooved area within Min. 1.8 deep grooves > 21.5%

Grooved area within Min. 5.5 deep grooves > 17.0%

The total width of the circumferential line is > 12 mm

The sum of the width of the grooves encountered by a radial line is > 16 mm

**CLASS 9"  
RIM 8.0"**



All dimensions are in mm, Unless otherwise specified

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IF IN DOUBT ASK...  
NOT TO SCALE

S.No.	DATE	DESCRIPTIONS	DRAWN	EVPRD / PDM

CHENNAI				INDIA	
DRAWN	G Kirubhakar			APPROVED	T N Sundar
SIGNATURE	DE	EVPRD / PDM			NTS
DATE	25.01.18		29.01.18		

F.I.A COMPLIANCE FOR 235/40R18 ZTA1 TL					
CORPORATE TECHNICAL MOULD DESIGN	DRG No.	RR-235/40R18_0518	REVISION No.		
SAP DOCUMENT TYPE:	SAP DOCUMENT No.		VER		