



2018 List of Asphalt Eligible Tyres



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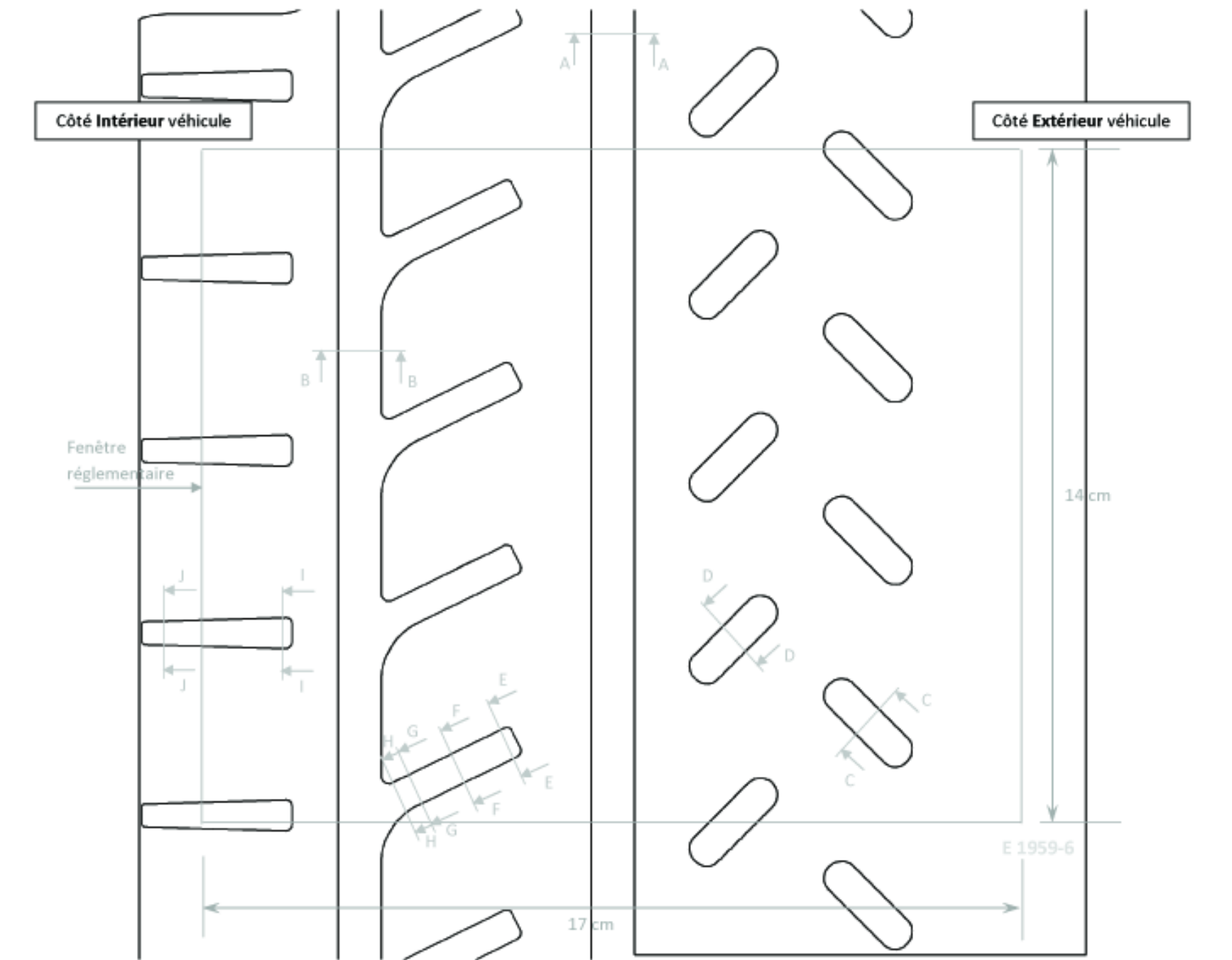


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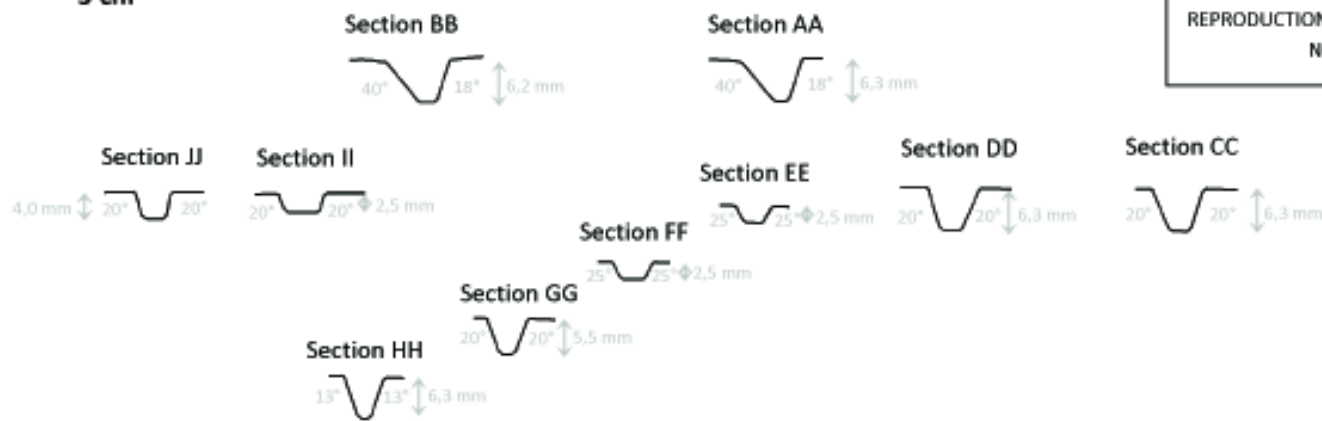
Domaine : Rallye Asphalte
Dimension : 20 / 65 – 18
Plan de la sculpture : Pilot Sport R
Entaillement Surfamique dans fenêtre réglementaire : 21,51 %

Clermont-Ferrand le 05/12/2013



Echelle 1:1
 5 cm

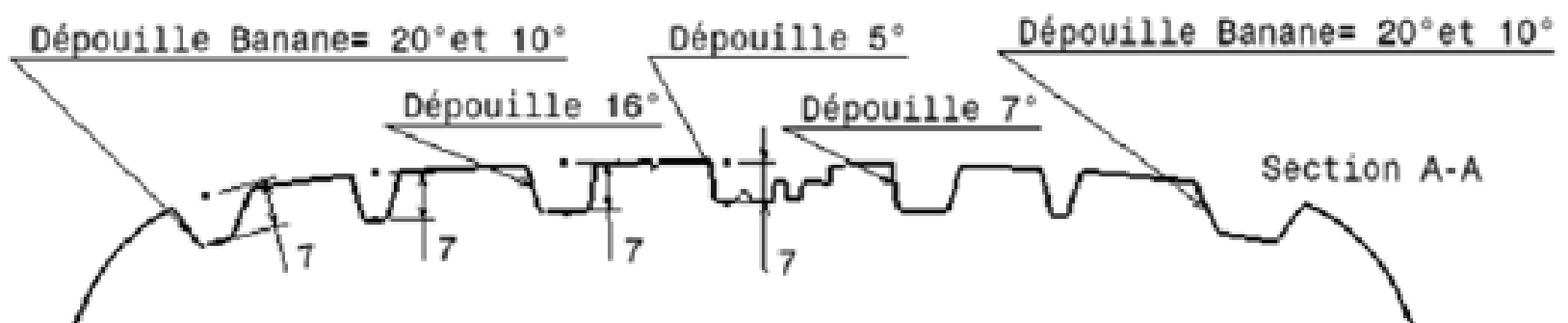
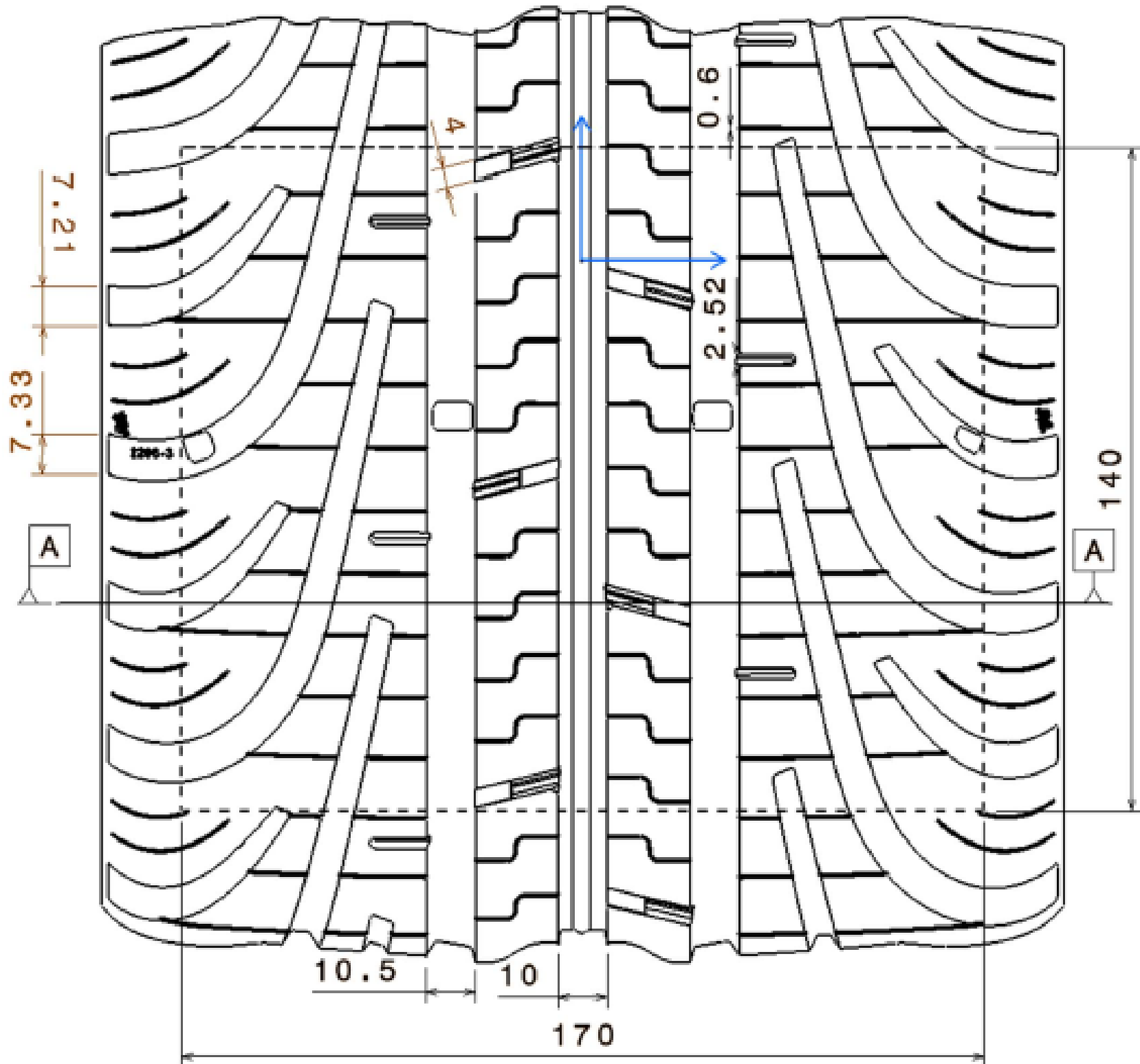
MANUFACTURE FRANCAISE DES PNEUMATIQUES
 MICHELIN CLERMONT-FERRAND
 PROPRIETE EXCLUSIVE DE NOTRE SOCIETE
 REPRODUCTION OU UTILISATION INTERDITE SANS
 NOTRE ACCORD ECRIT





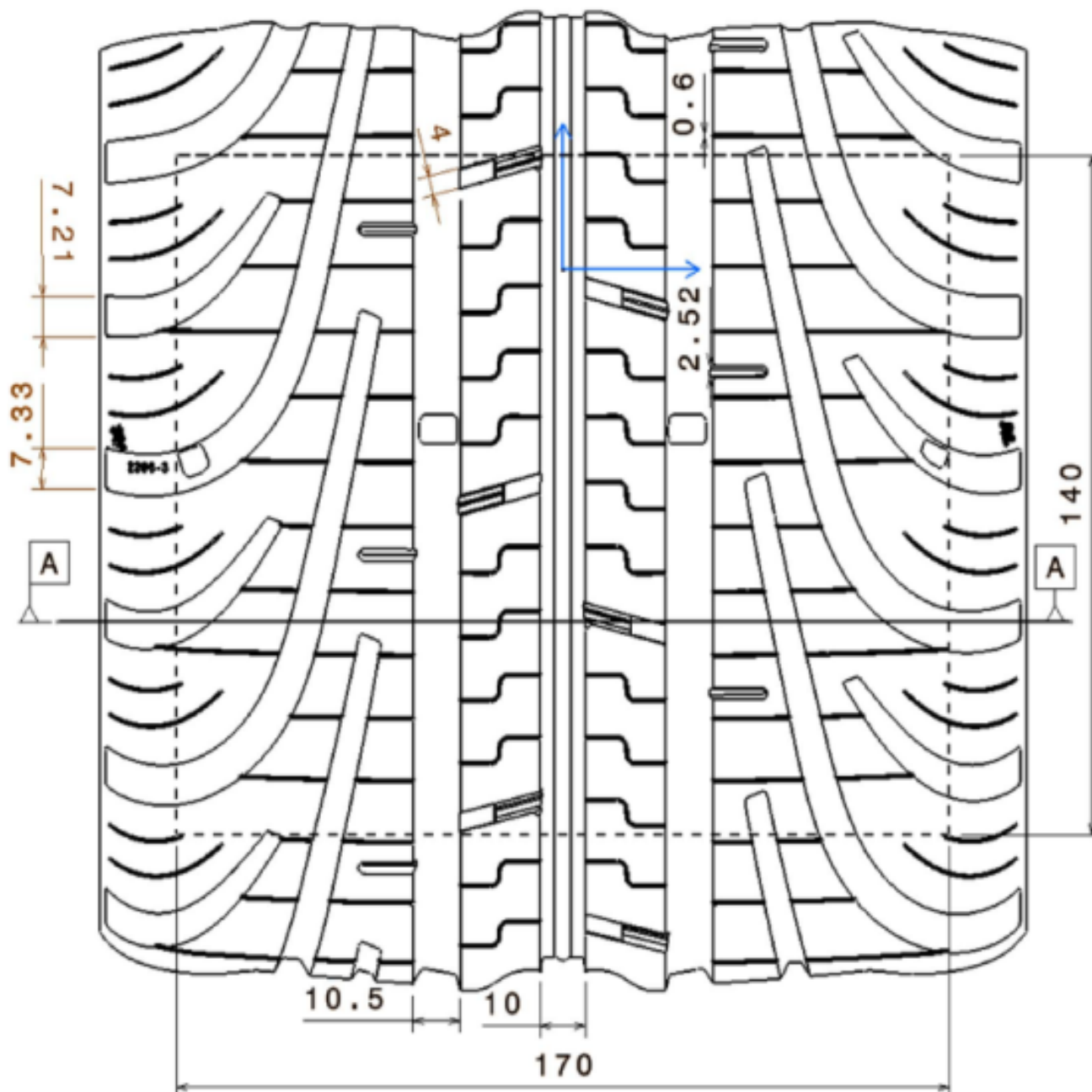
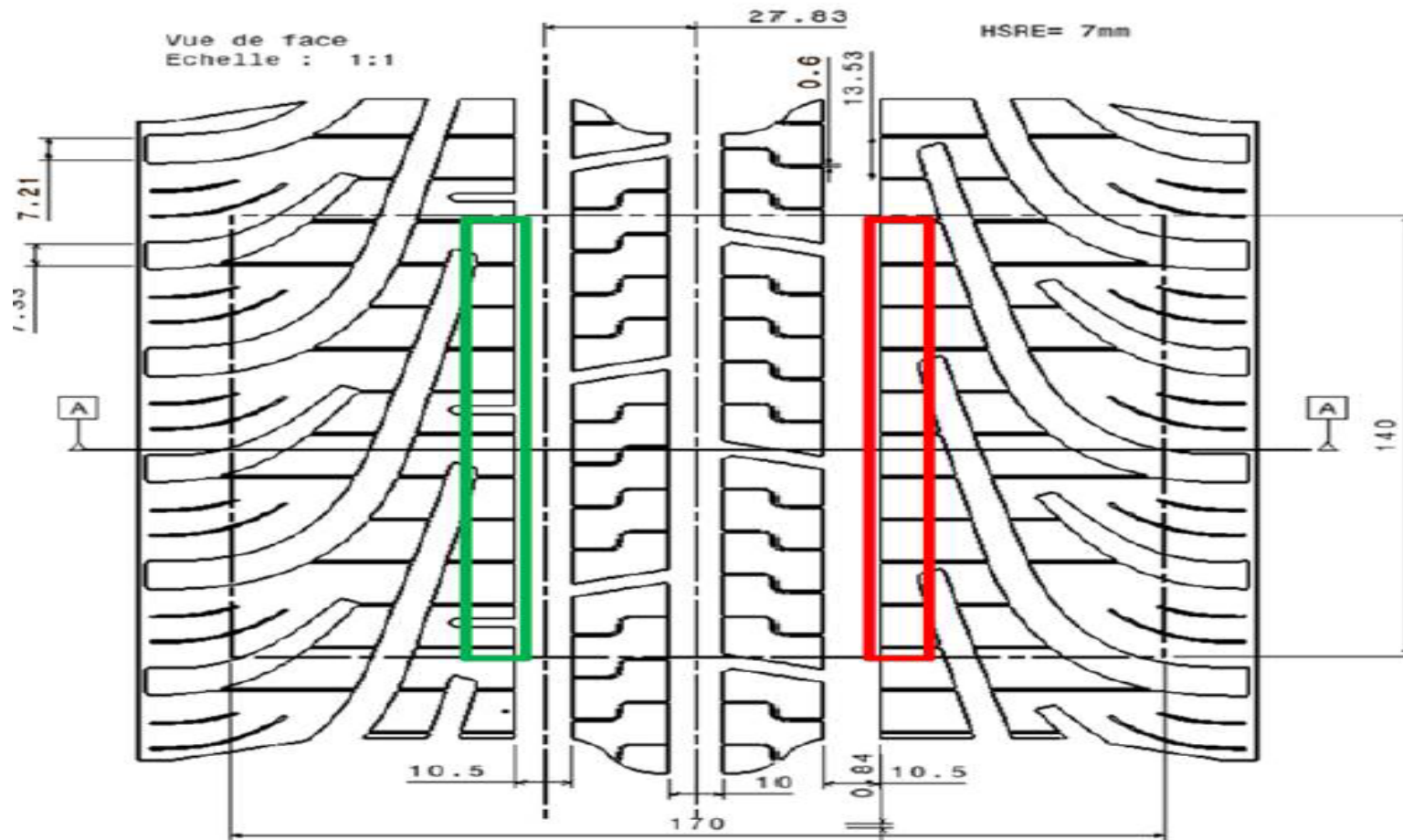
Clermont-Ferrand le : 15/12/2016
Domaine : Rallye Asphalt WRC Wet
Dimension : 18 / 65 - 18
Plan de la sculpture : Pilot Sport FW3
Entaillement Surfacique sur entaille $\geq 5,5$ mm de profondeur : 27.5%

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





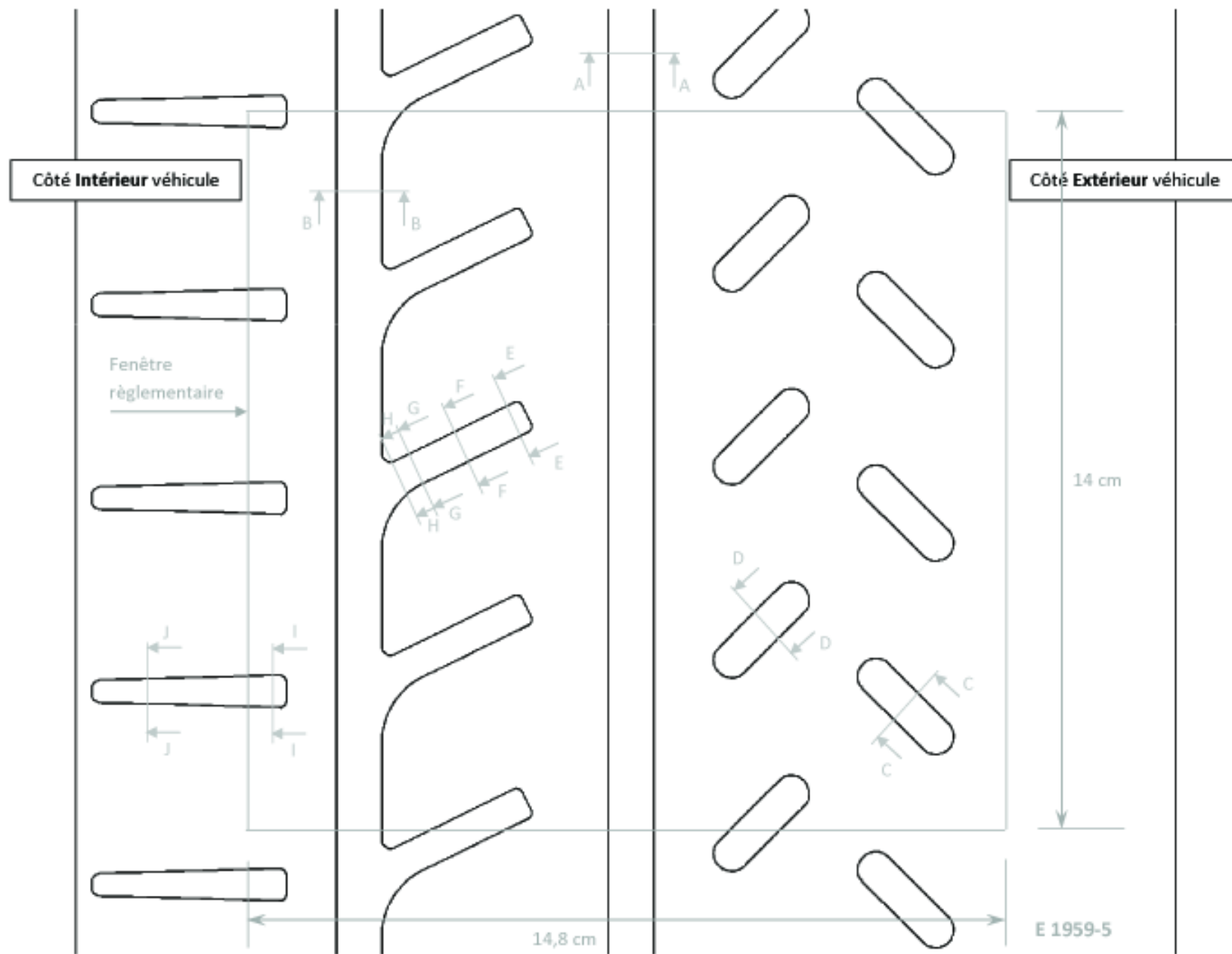
Valid until 31.12.2017



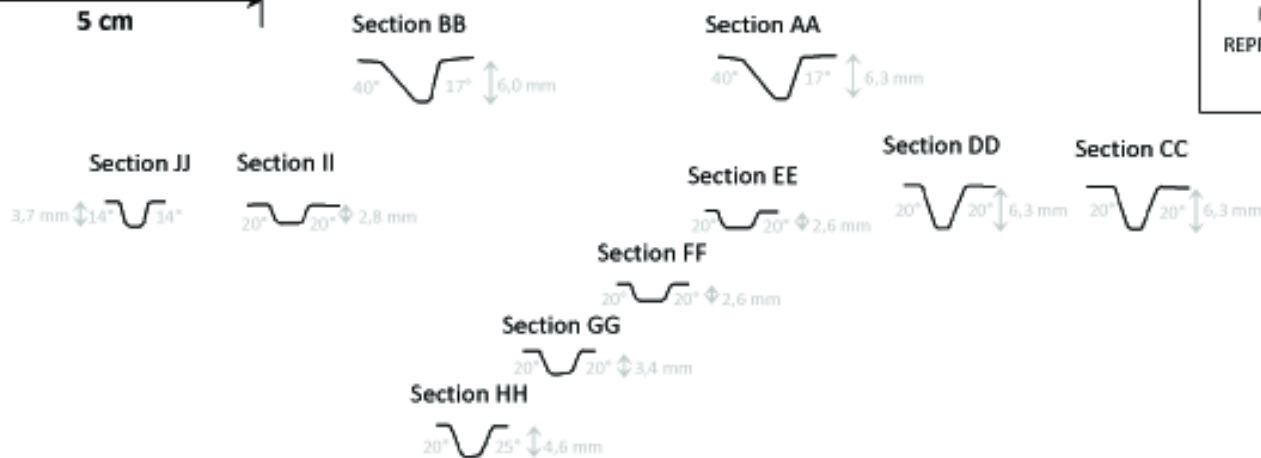


Domaine : Rallye Asphalte
 Dimension : 19 / 63 – 17
 Plan de la sculpture : Pilot Sport R
 Entaillement surfacique sur fenêtre réglementaire : 21,51 %

Clermont-Ferrand le 05/12/2013



Echelle 1:1
 5 cm

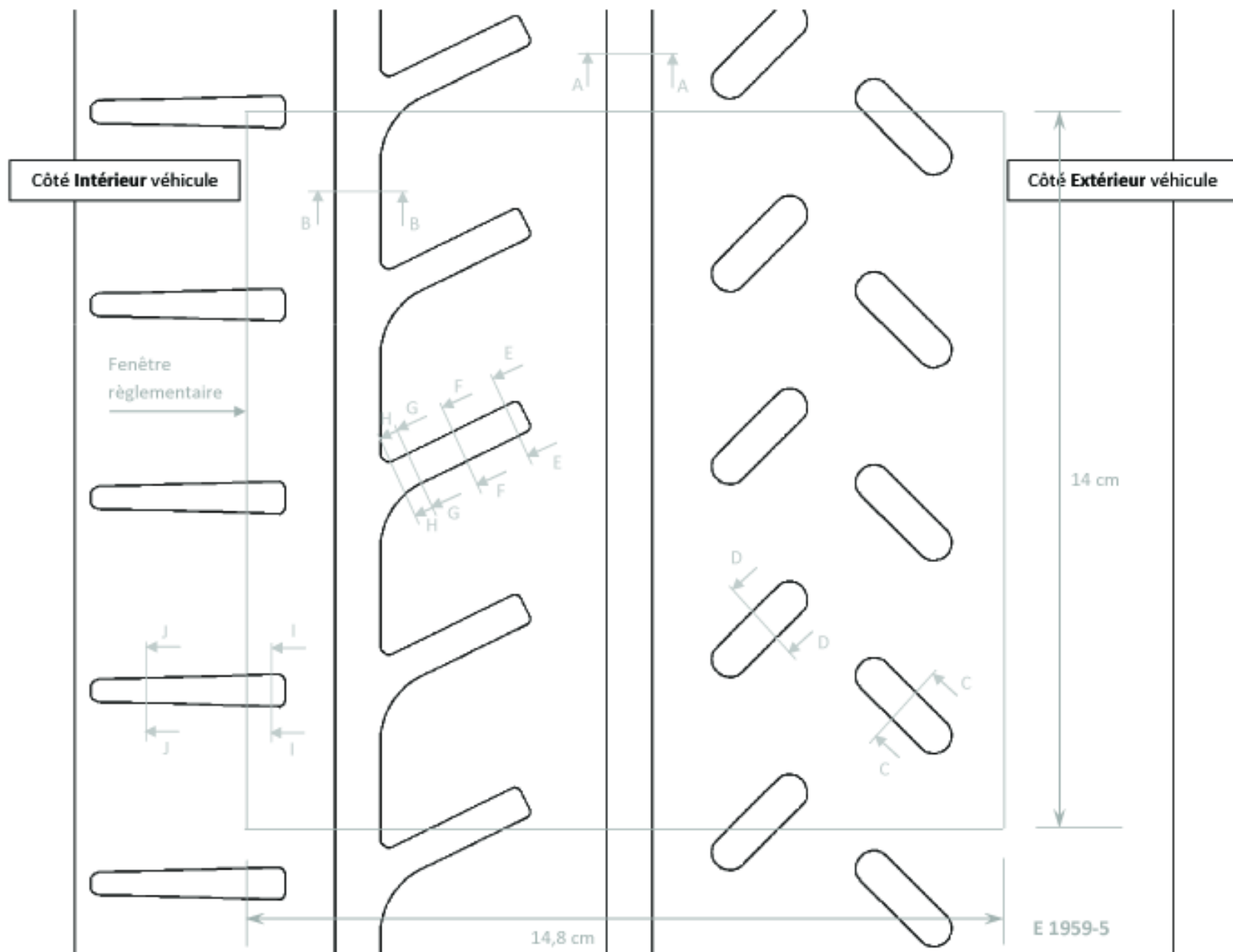


MANUFACTURE FRANCAISE DES PNEUMATIQUES
 MICHELIN CLERMONT-FERRAND
 PROPRIETE EXCLUSIVE DE NOTRE SOCIETE
 REPRODUCTION OU UTILISATION INTERDITE SANS
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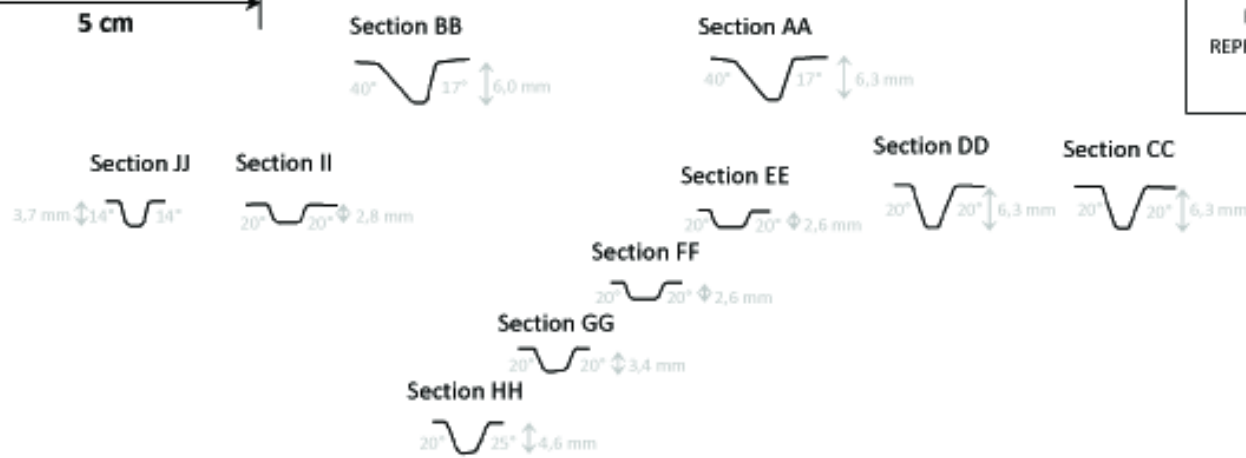


Domaine : Rallye Asphalte
 Dimension : 19 / 60 – 16
 Plan de la sculpture : **Pilot Sport R**
 Entaillement surfacique sur fenêtre réglementaire : **21,51 %**

Clermont-Ferrand le 05/12/2013



Echelle 1:1
 5 cm

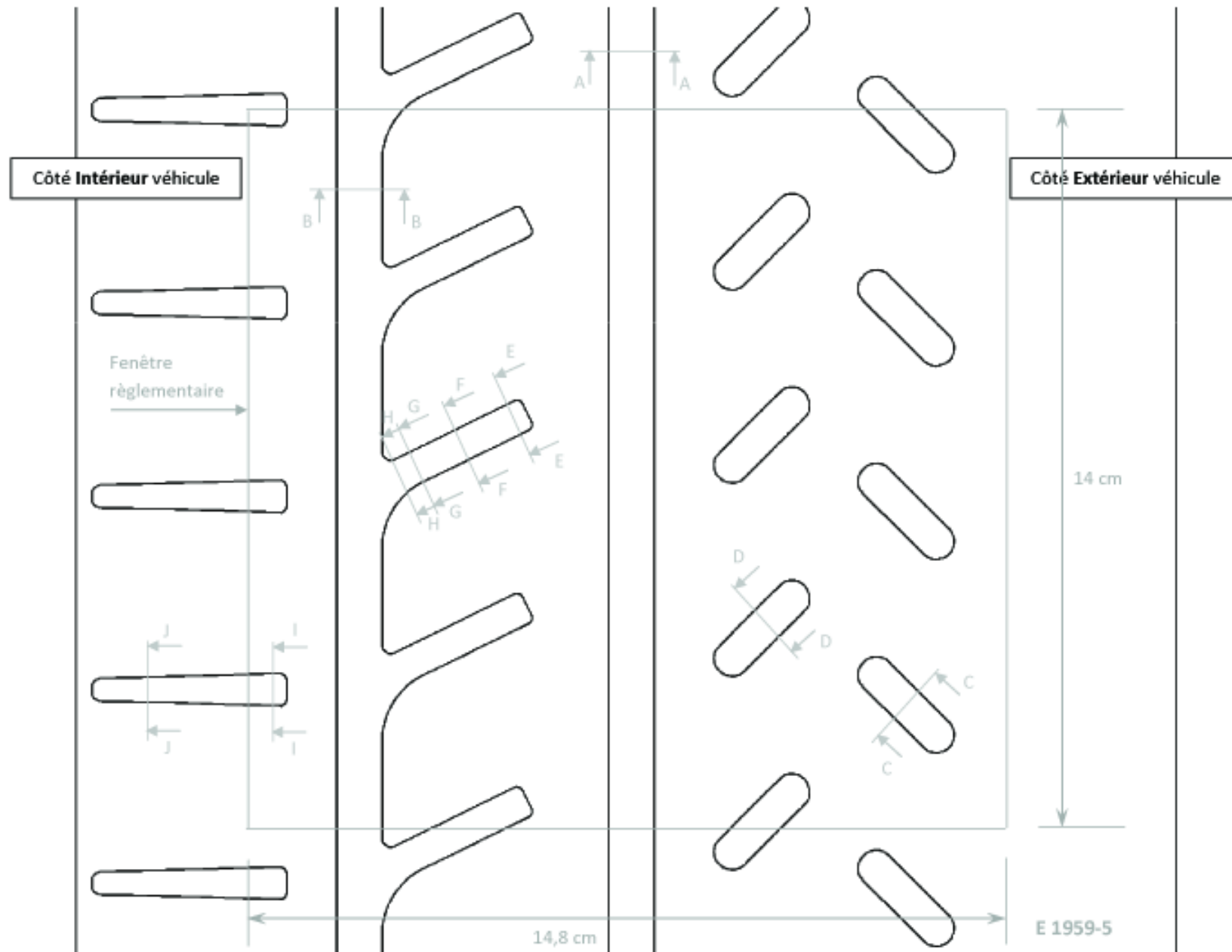


MANUFACTURE FRANCAISE DES PNEUMATIQUES
 MICHELIN CLERMONT-FERRAND
 PROPRIETE EXCLUSIVE DE NOTRE SOCIETE
 REPRODUCTION OU UTILISATION INTERDITE SANS
 NOTRE ACCORD ECRIT

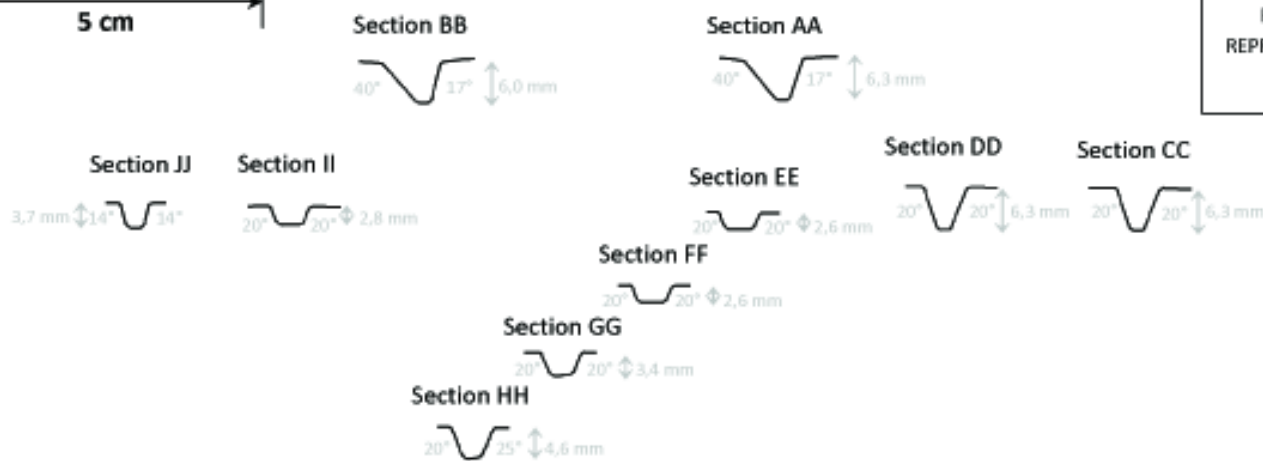


Domaine : Rallye Asphalte
 Dimension : **19 / 58 – 15**
 Plan de la sculpture : **Pilot Sport R**
 Entaillement surfacique sur fenêtre réglementaire : **21,51 %**

Clermont-Ferrand le 05/12/2013



Echelle 1:1
 5 cm



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

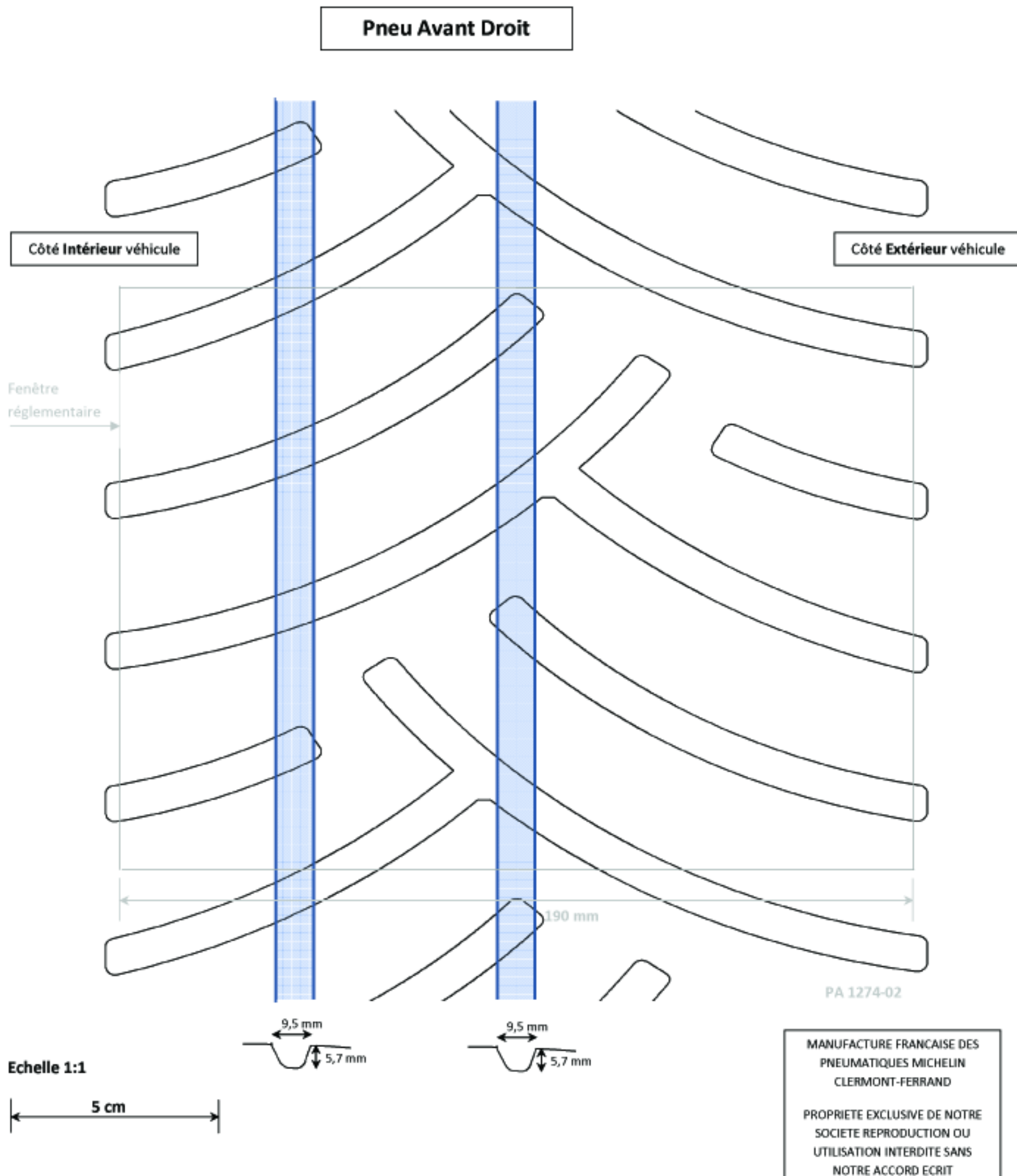


Domaine : Rallye Asphalte

Dimension : 24 / 65 - 18

Entaillement surfacique sur une fenêtre de 190 mm de large : 32,8 %

Clermont-Ferrand le 18/12/2013



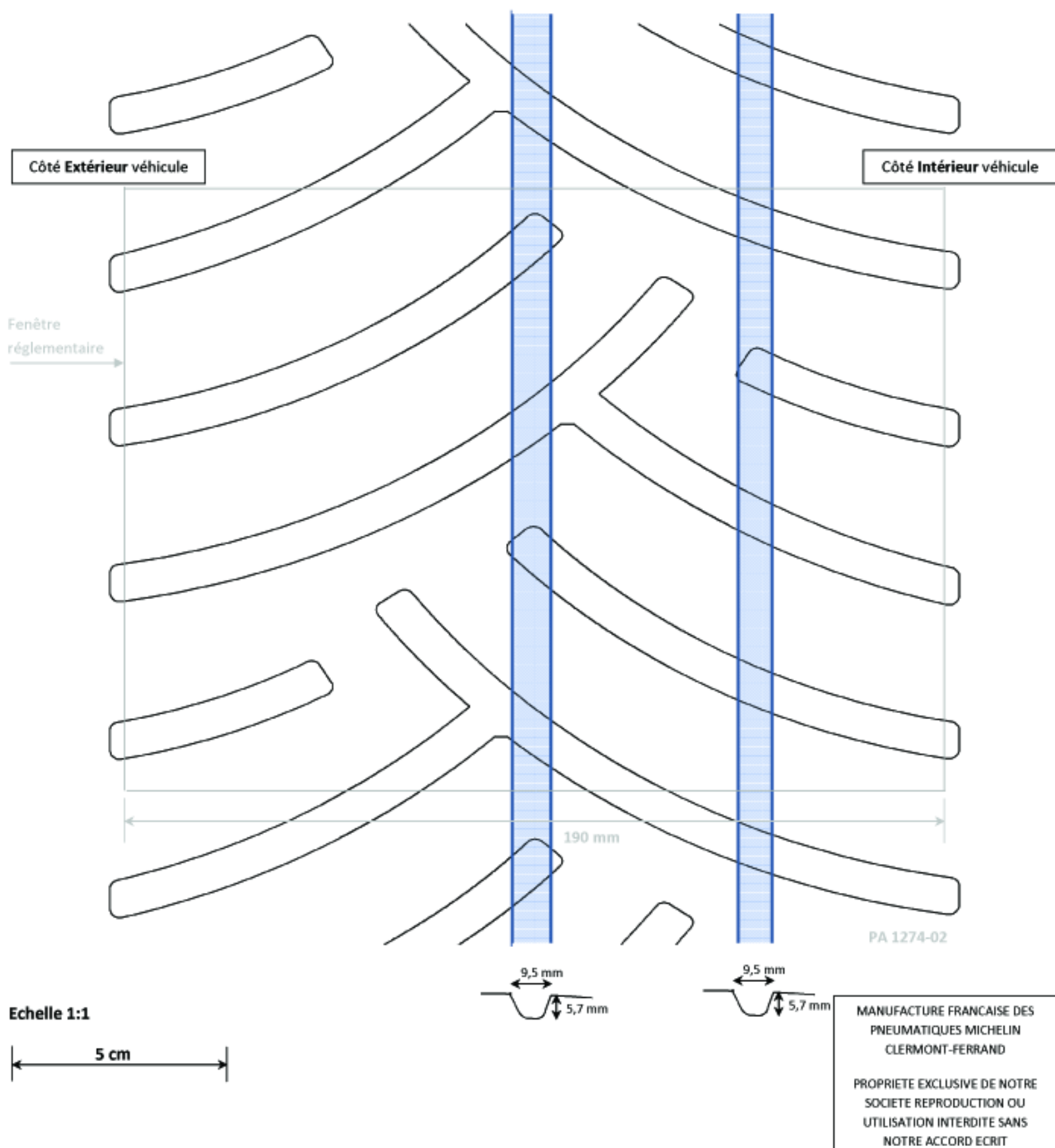
Circumferential grooves are hand-cutted.



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

Clermont-Ferrand le 18/12/2013

Pneu Avant Gauche

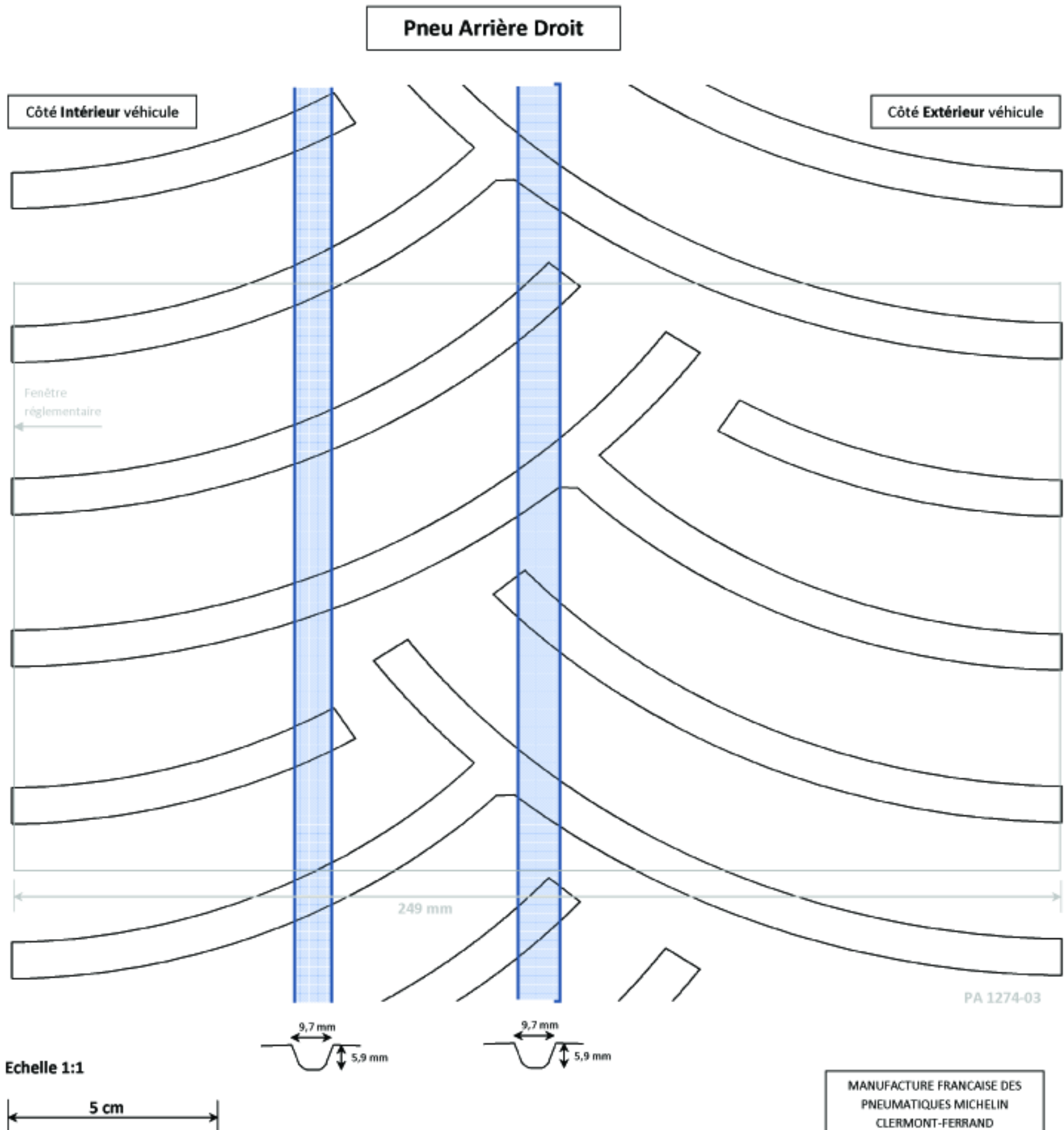


Circonférentielles sont manuellement coupées.



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

Clermont-Ferrand le 18/12/2013

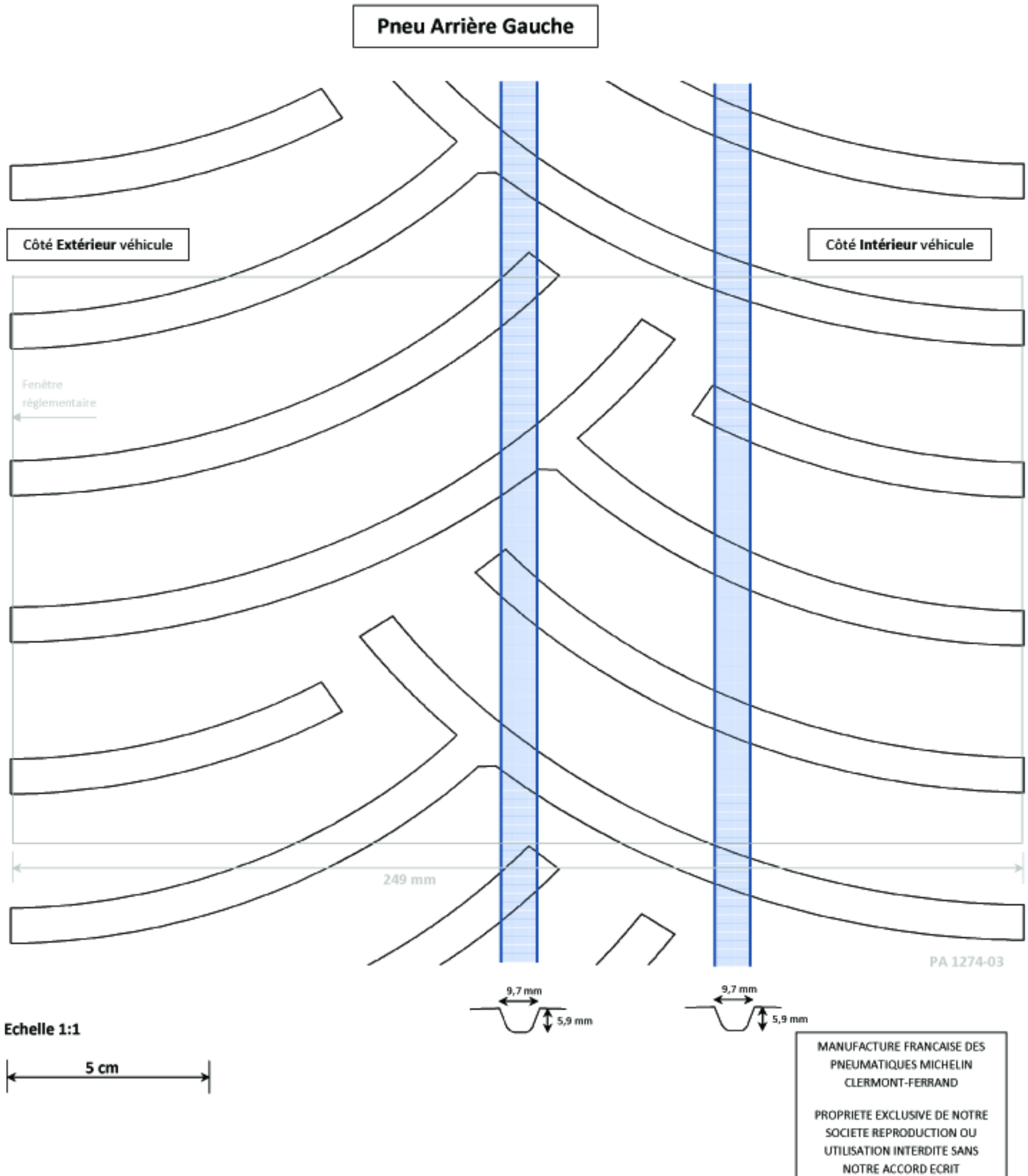


Circonférential grooves are hand-cutted.



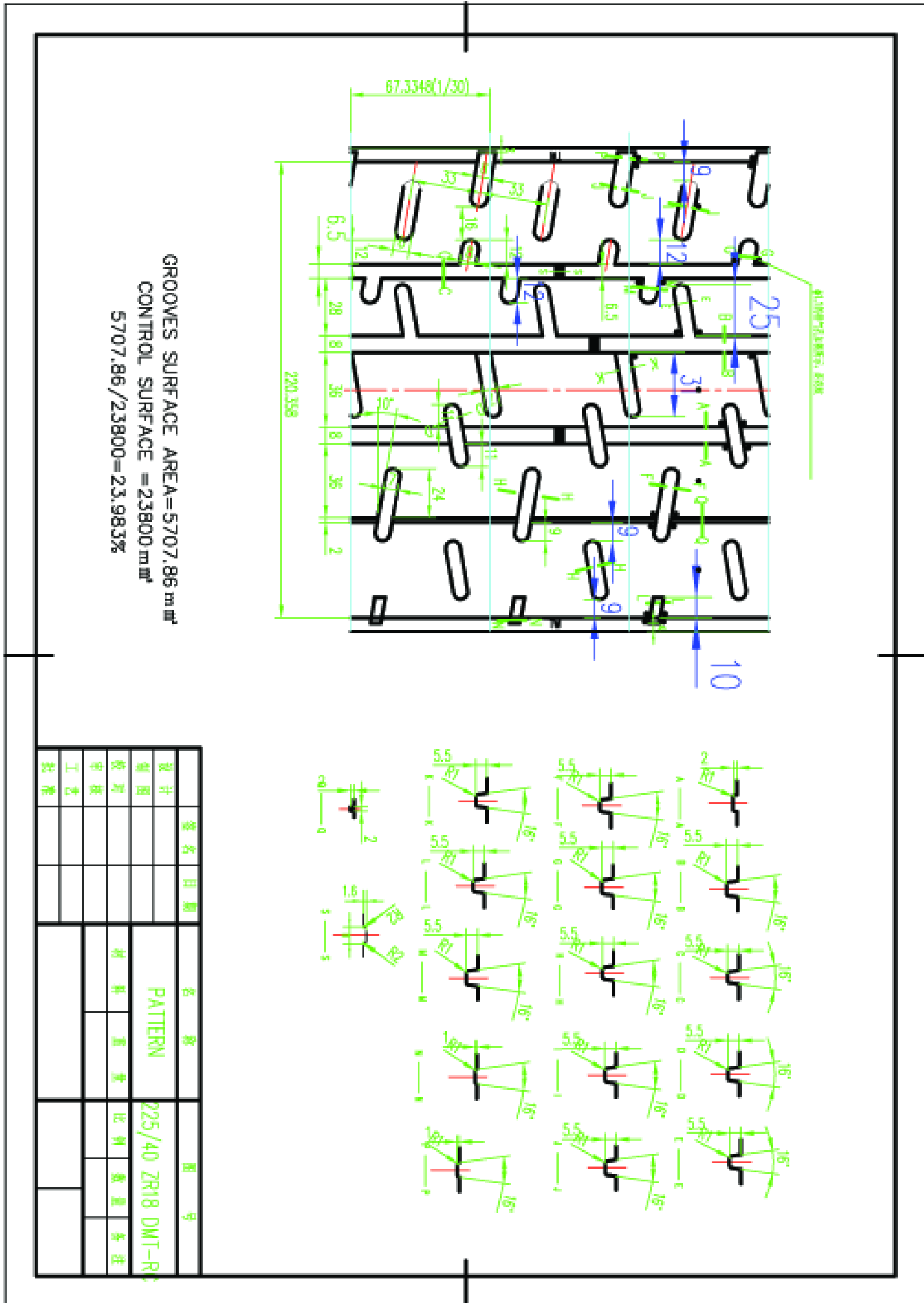
Domaine : **Rallye Asphalte**
Dimension : **29 / 65 – 18**
Entaillement surfacique sur fenêtre de 249 mm de large : **31 %**

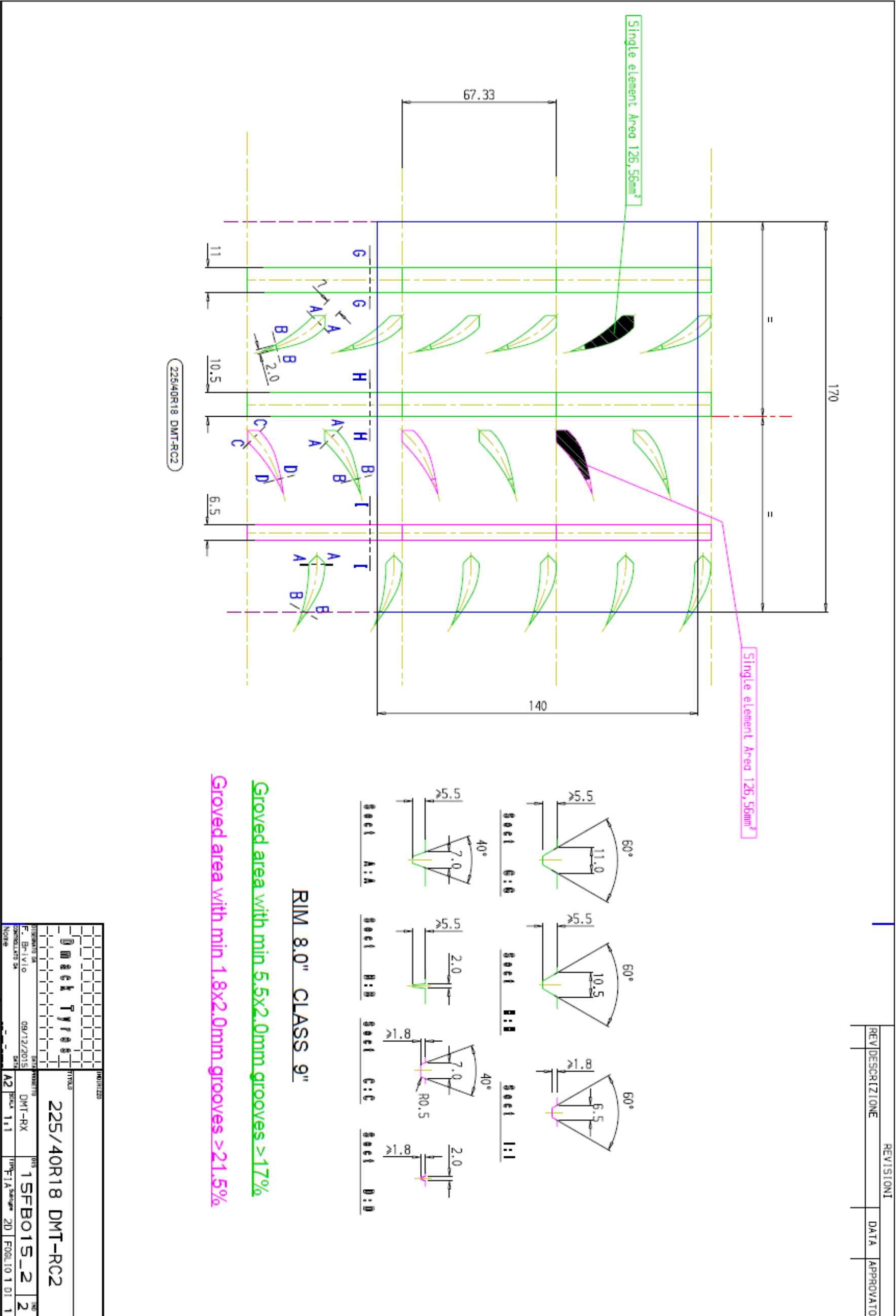
Clermont-Ferrand le 18/12/2013



Circonfential groves are hand-cutted.

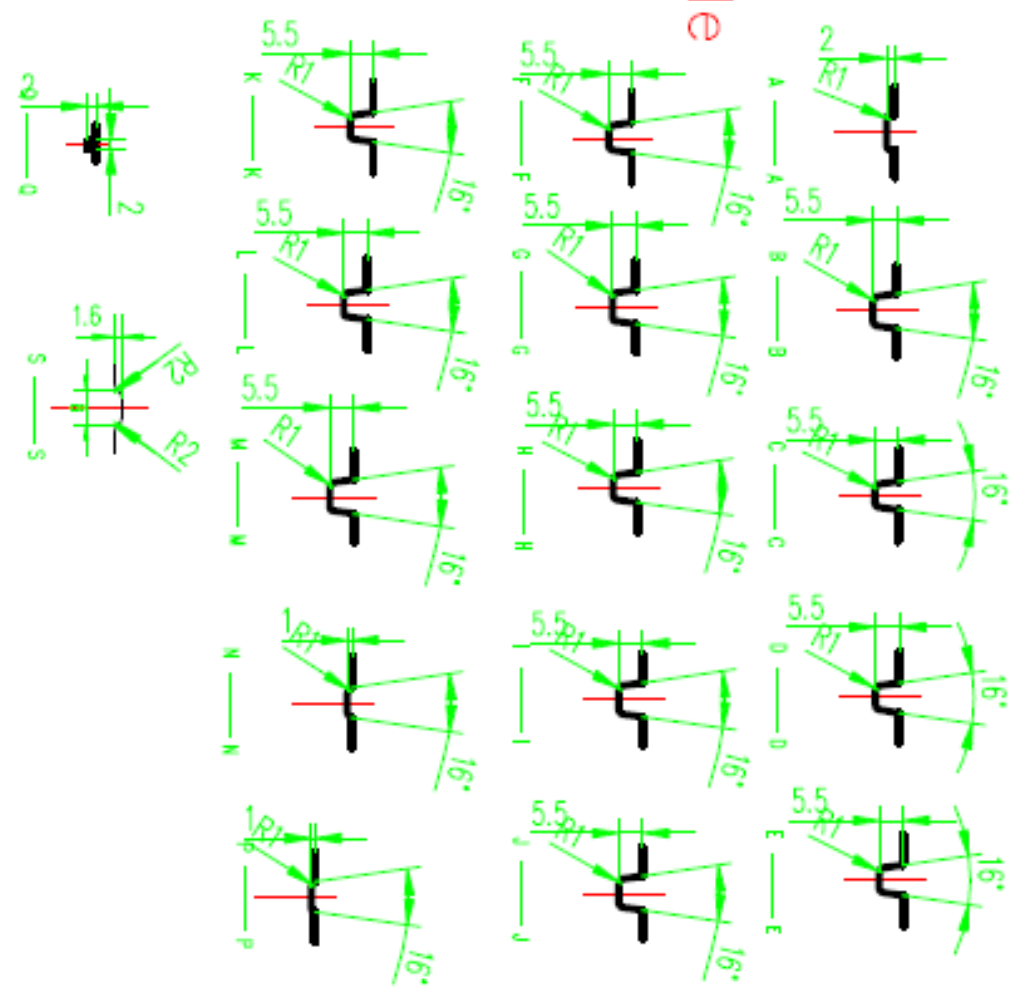
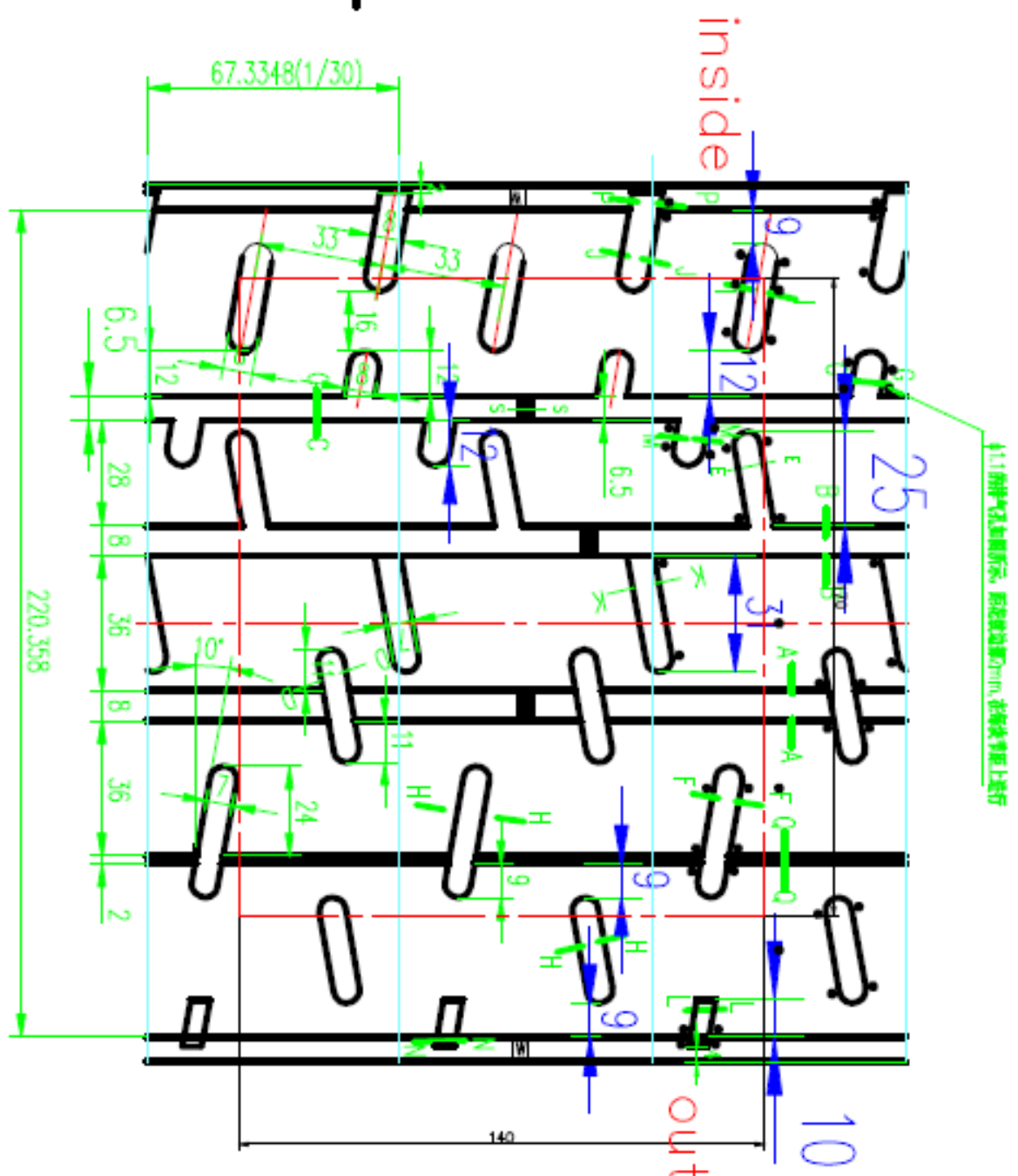
18" – 225/40-18





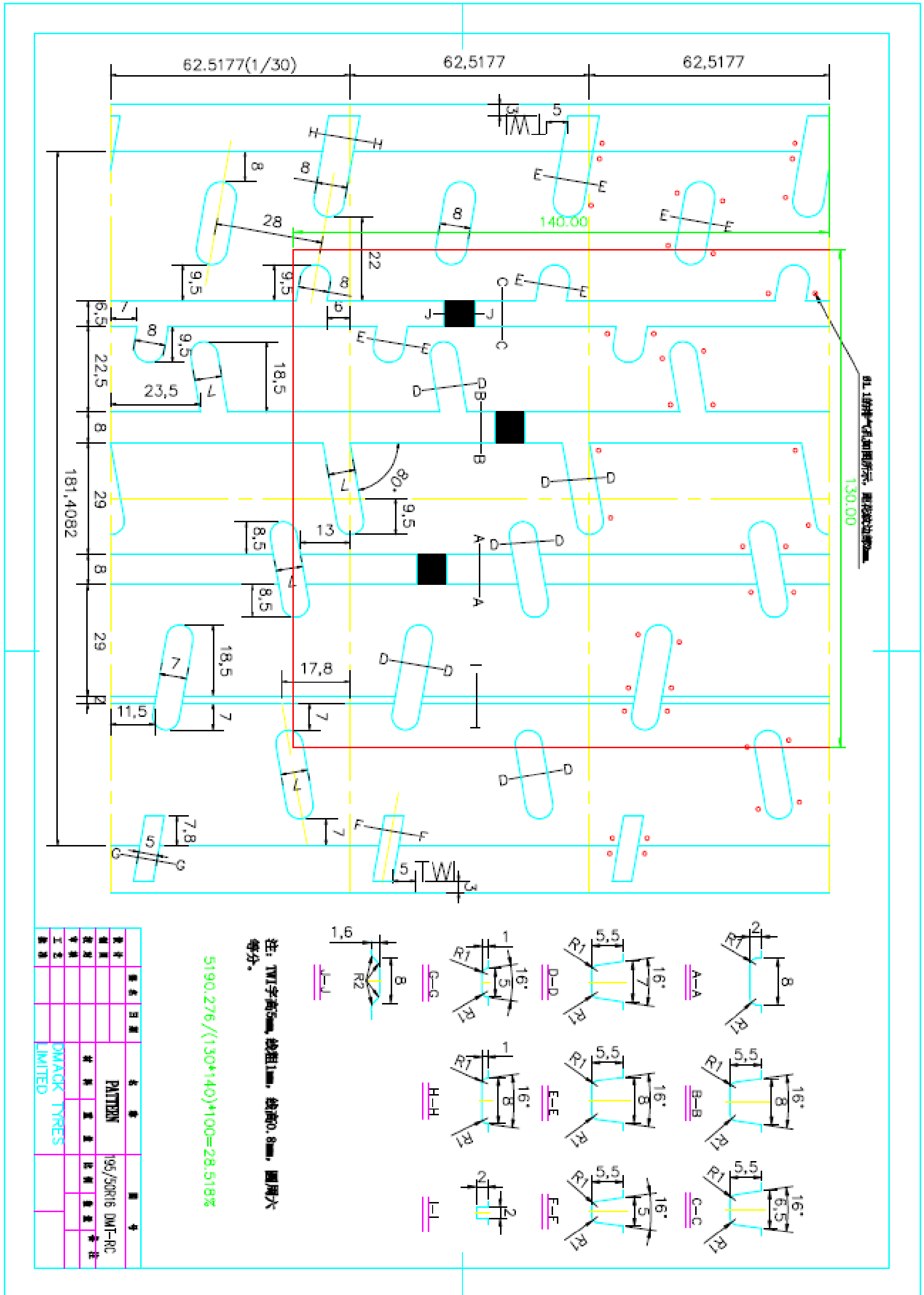
17" – 225/45-17

GROOVES SURFACE AREA=5707.86 mm²
 CONTROL SURFACE =23800 mm²
 5707.86/23800=23.983%



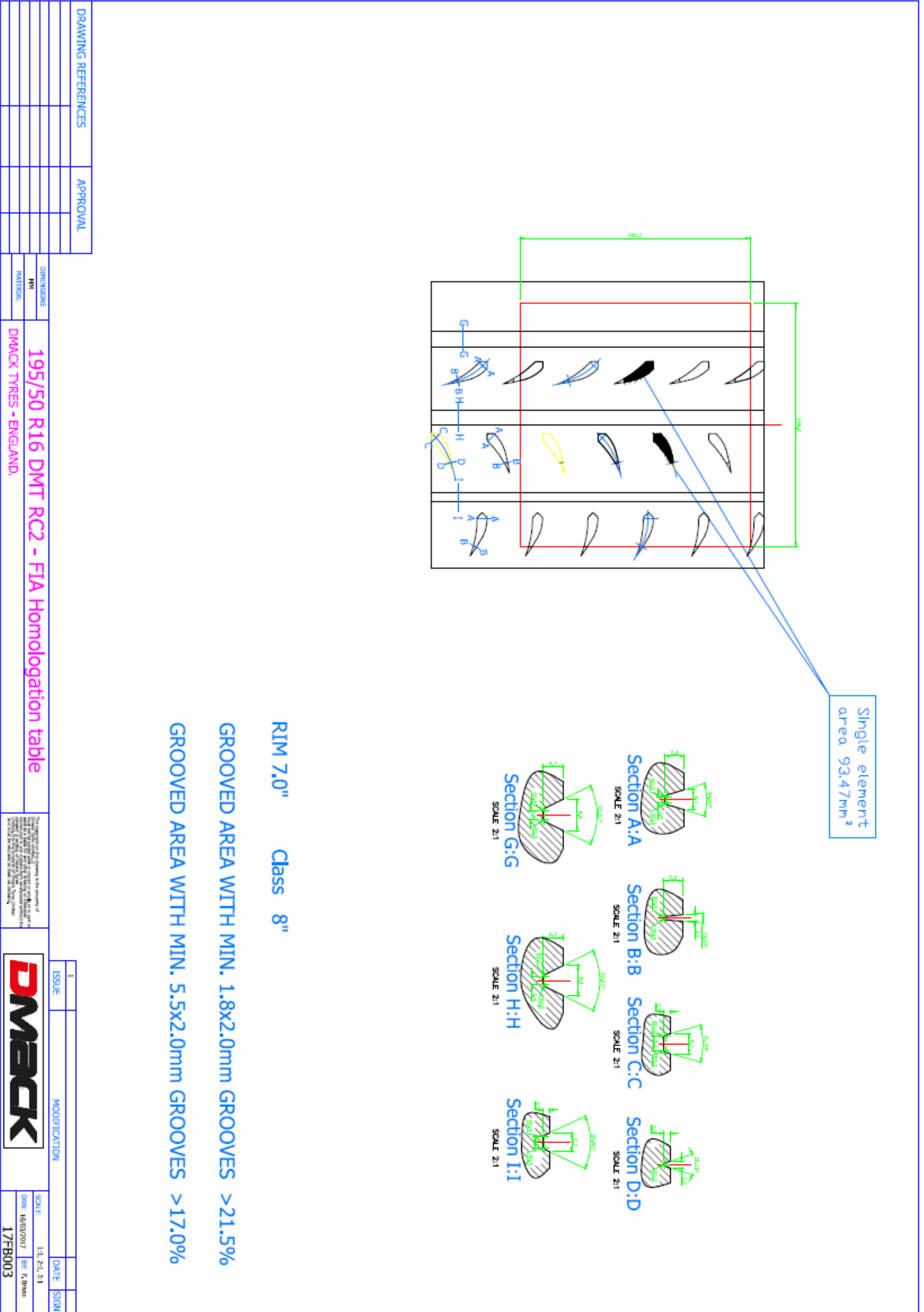
设计	审核	工艺	批准	名称	日期	图号	备注
				PATTERN		225/45R17 DMT-RC	
				材料		重量	比例
						数量	
				Dmack Tyre Ltd			

16" - 195/50-16



項目	內容
圖號	
圖名	PATTERN
規格	195/50R16 DMF-RC
材料	
製法	
備註	DMACK TYRES LIMITED

16" – 195/50-16



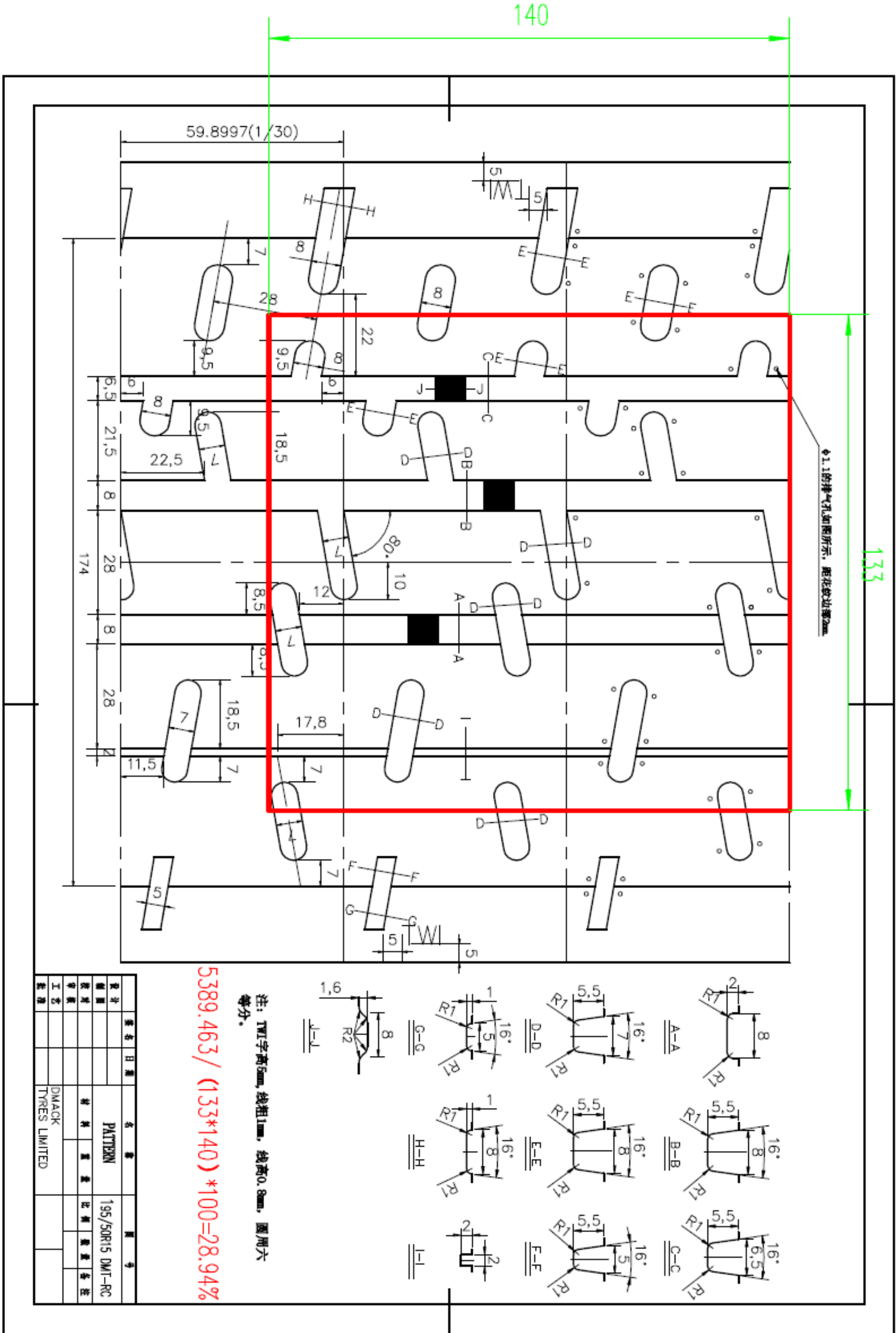
DRAWING REFERENCES	APPROVAL

DIMENSIONS	195/50 R16 DMT RC2 - FIA Homologation table
MM	
MATERIAL	DMACK TYRES - ENGLAND.

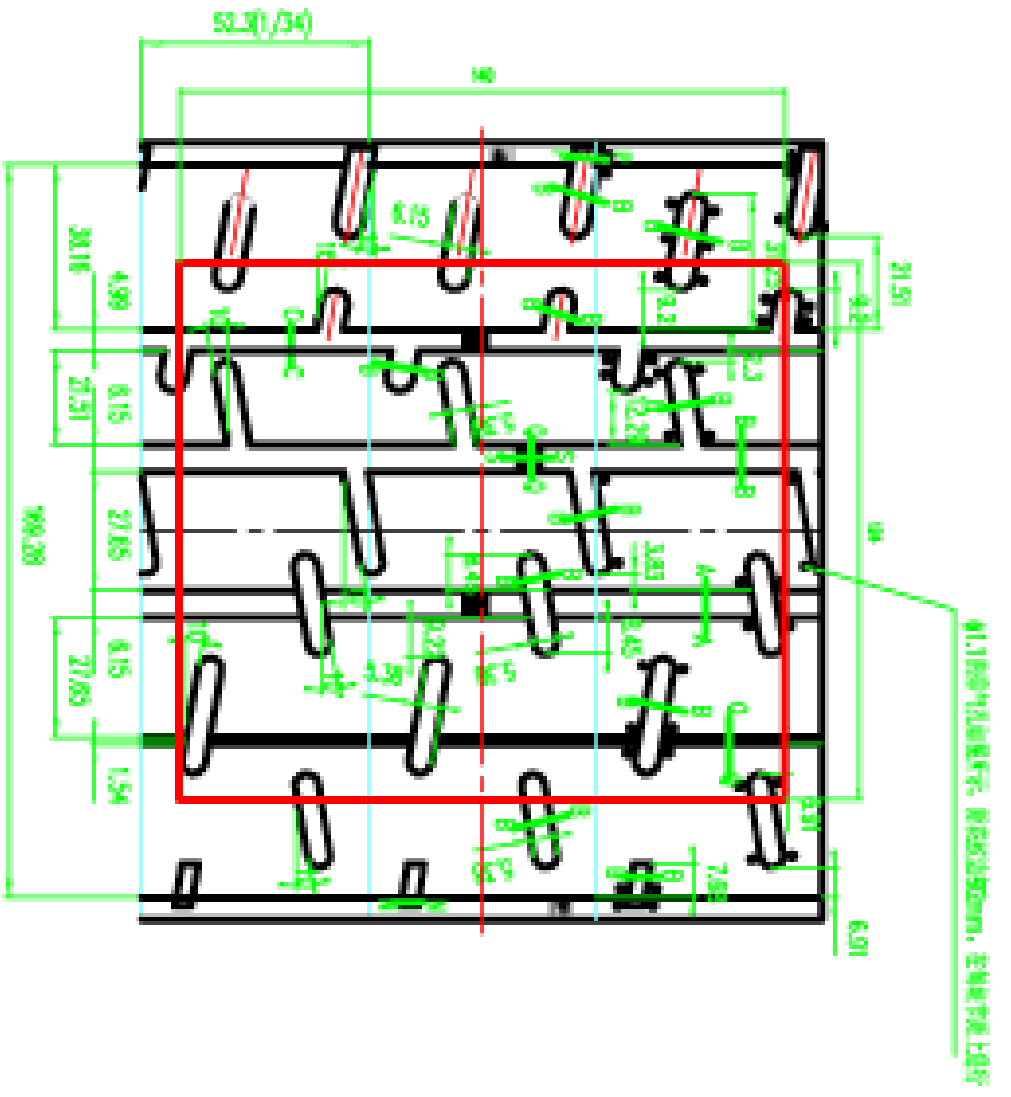
ISSUE	MODIFICATION	DATE	SIGN
1			



SCALE: 1:1, 2:1, 3:1
 DWG: 16/03/2017 BY: F. BMM
 17FB003

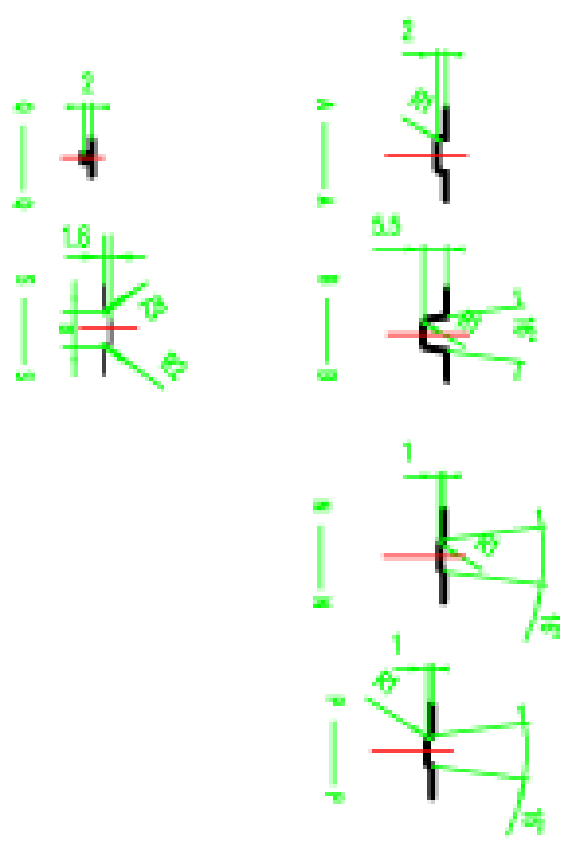


14" – 175/60-14



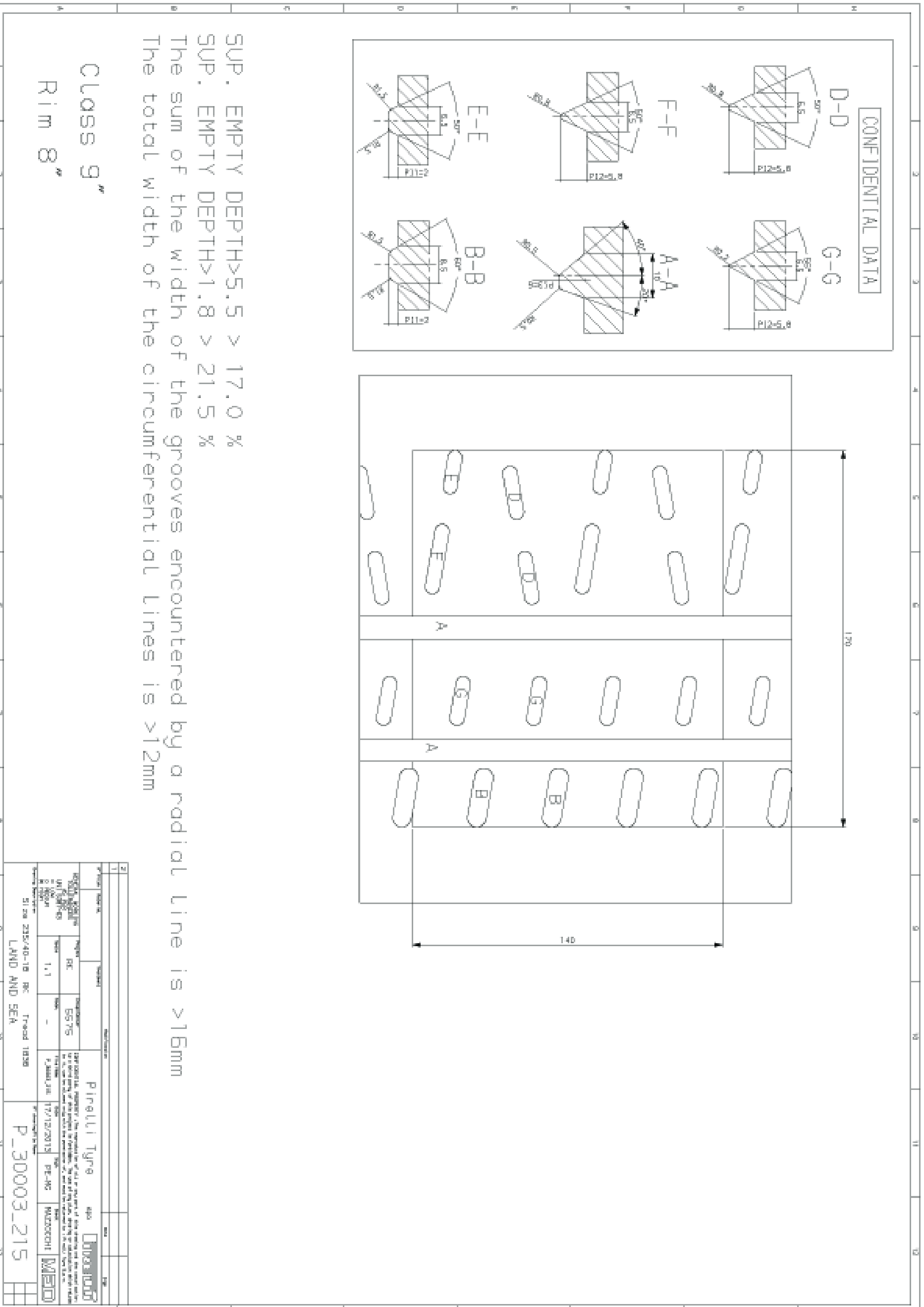
注：TWI字高3mm，线粗1mm，线高0.8mm，圆周六等分

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

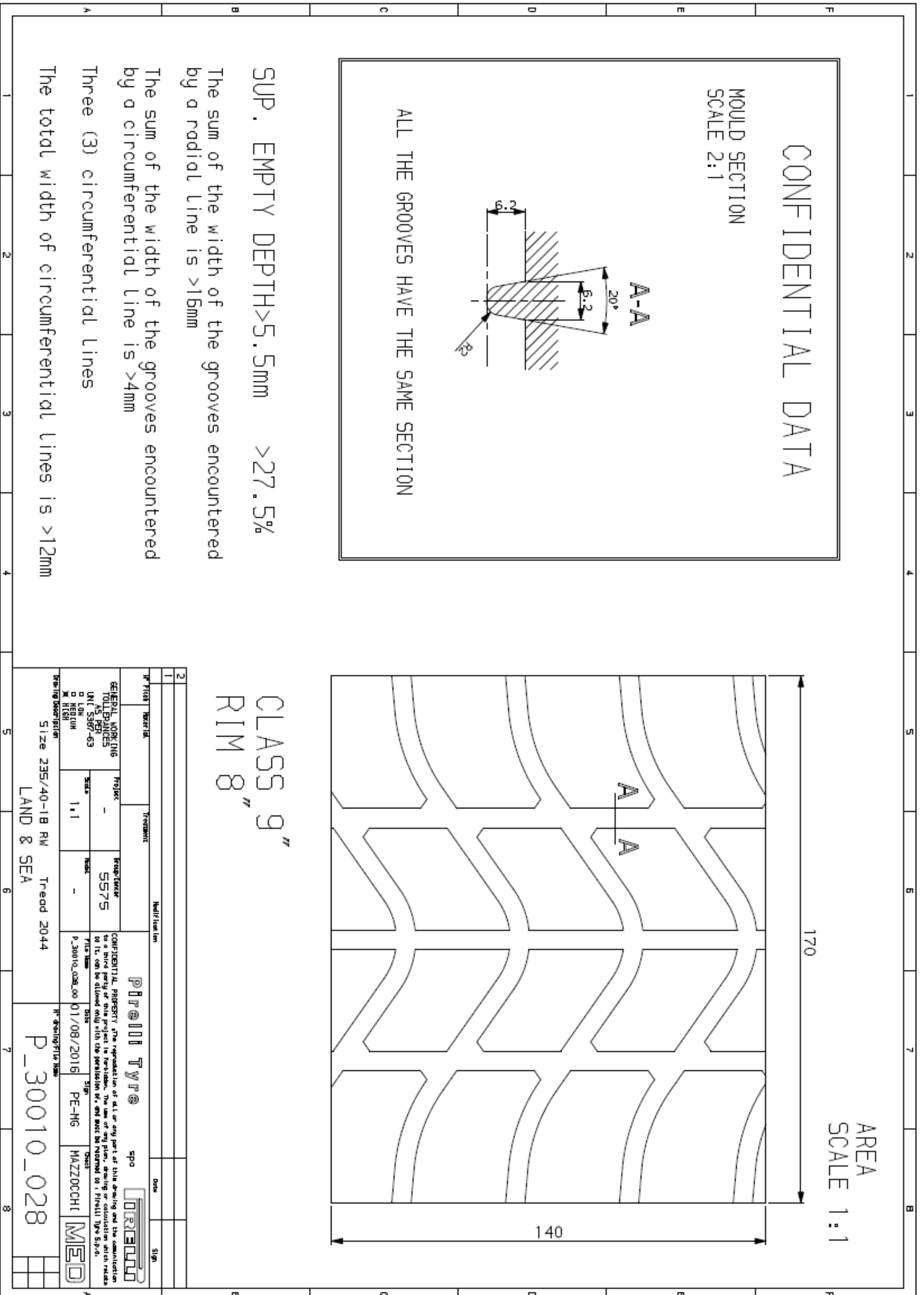


设计	姓名	日期	名称	图号
制图			TREAD	175/60R14 DMT-RC
校对			材料	比例
审核			重量	数量
工艺				备注
标准			DMACK TYRES LTD	

18" – 235/40-18

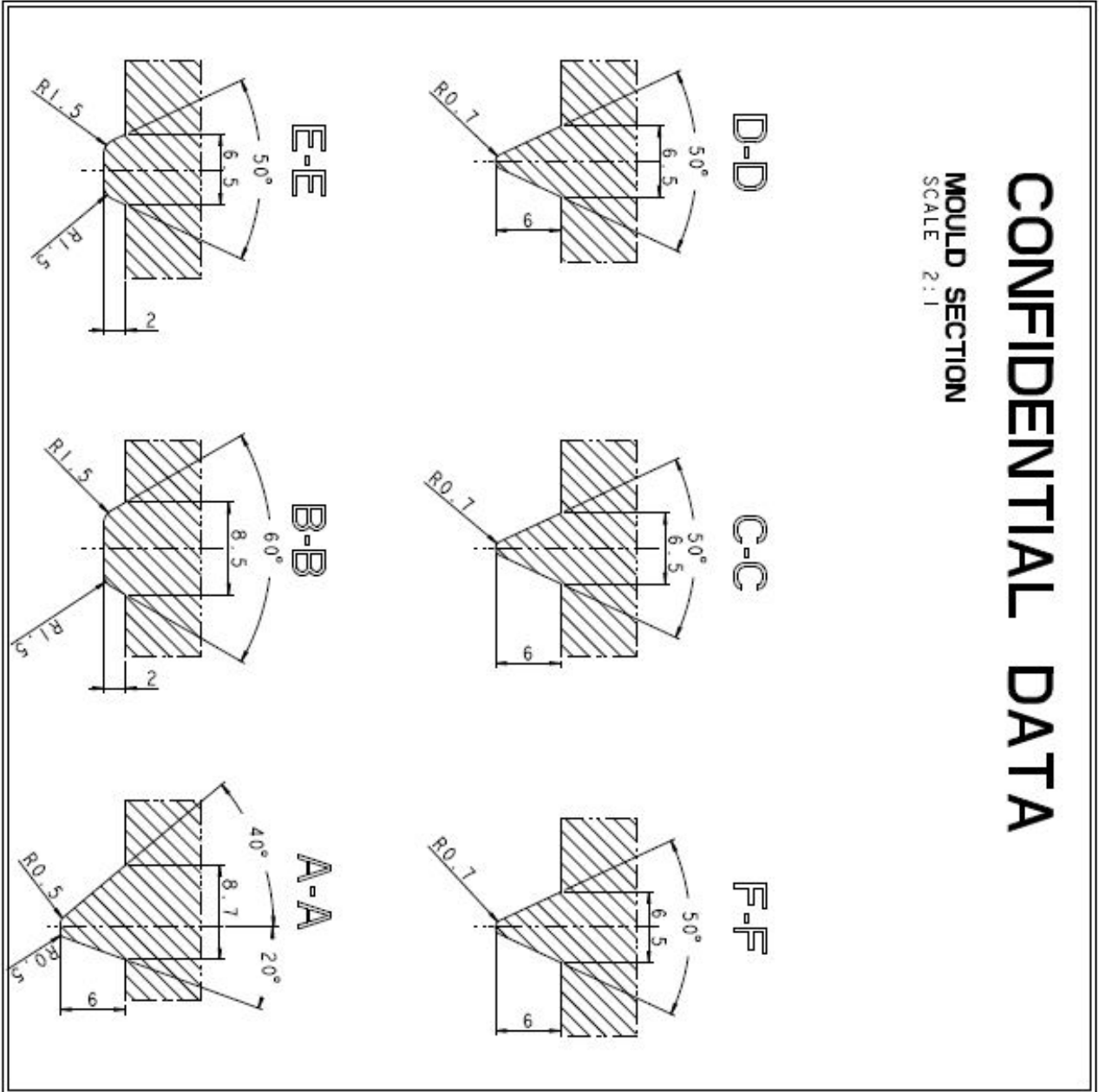


18" – 235/40 - 18



CONFIDENTIAL DATA

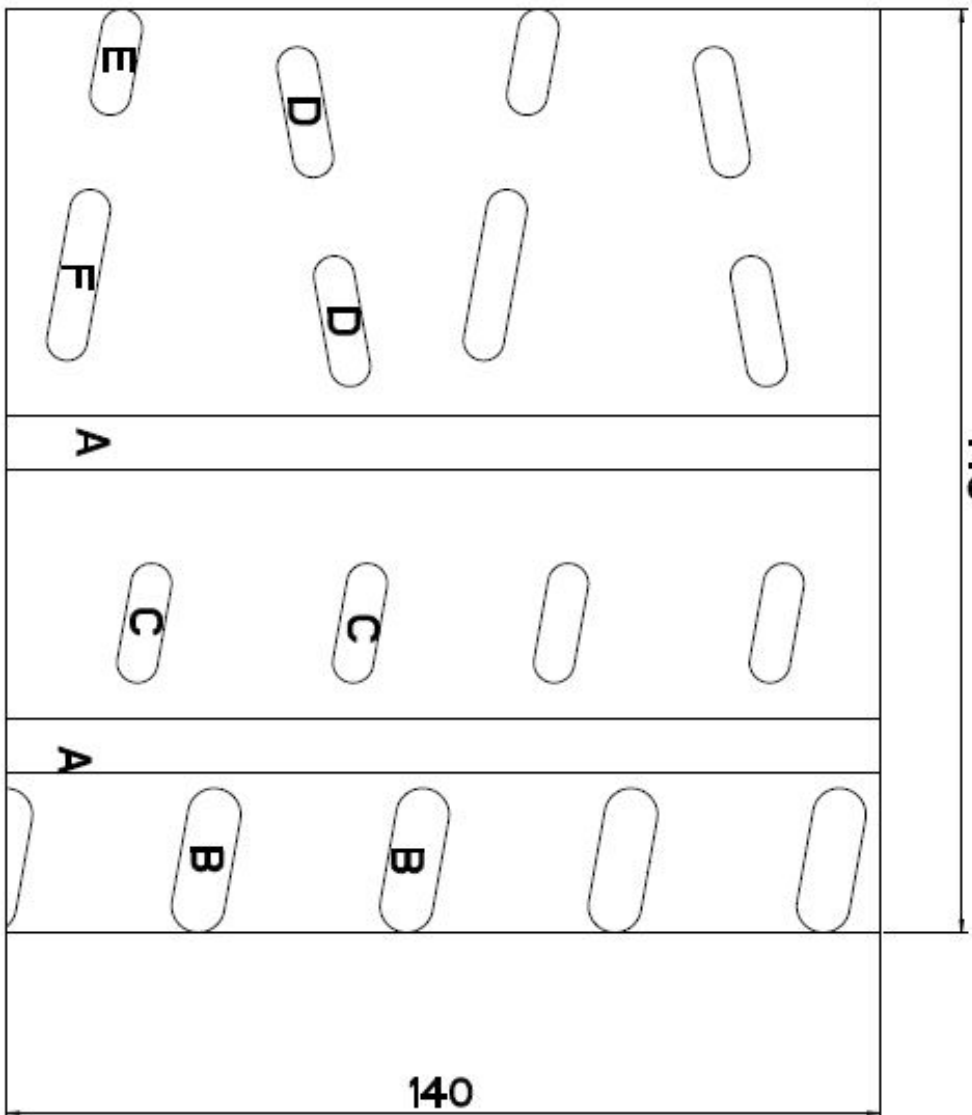
MOULD SECTION
SCALE 2:1



SUP. EMPTY DEPTH > 5.5 **> 17%**
SUP. EMPTY DEPTH > 1.8 **> 21.5%**

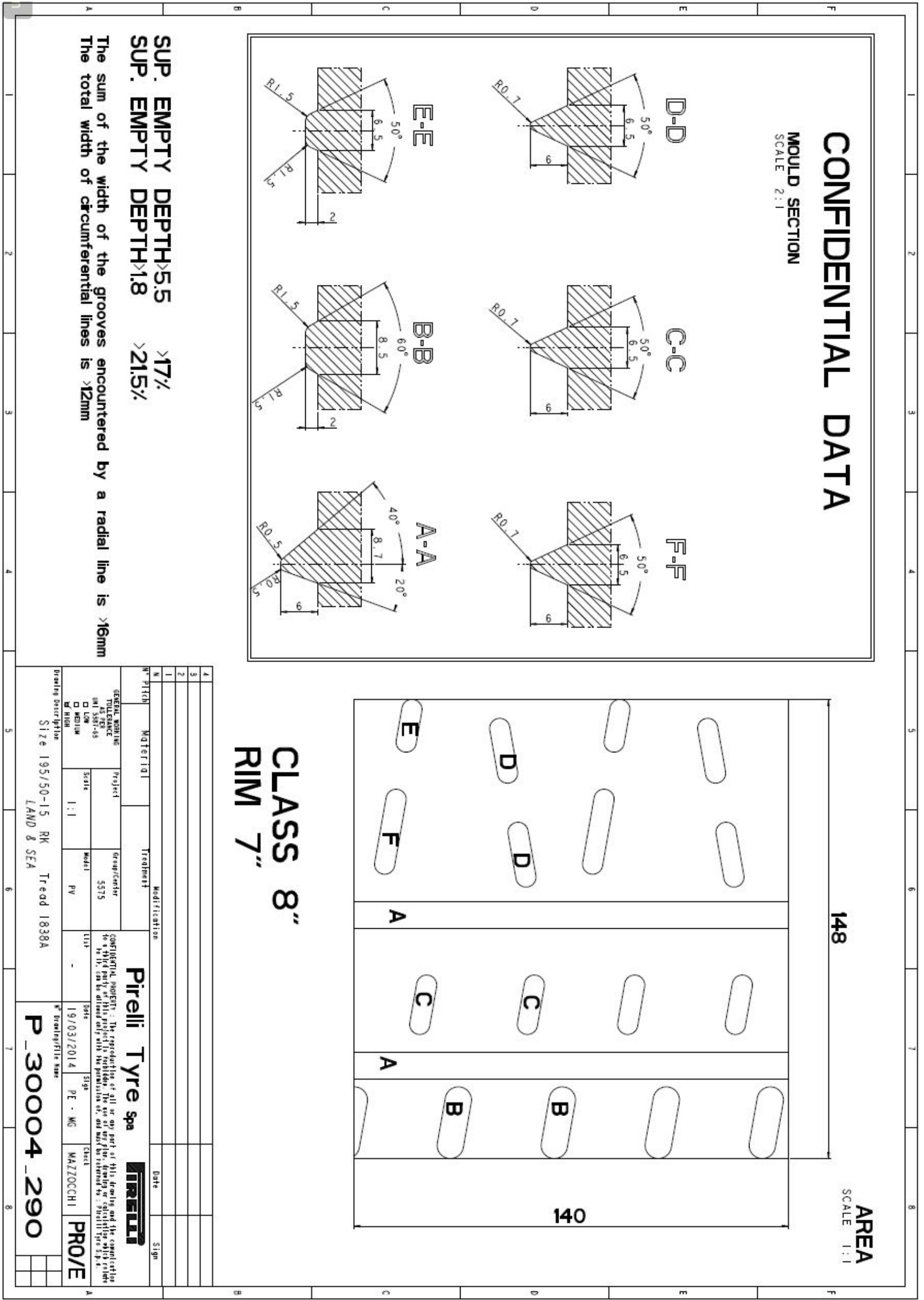
The sum of the width of the grooves encountered by a radial line is > 16mm
The total width of circumferential lines is > 12mm

AREA
SCALE 1:1

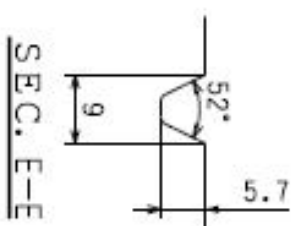
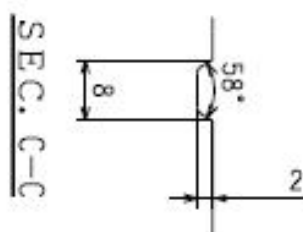
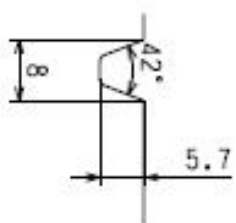
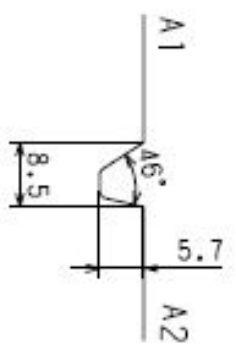
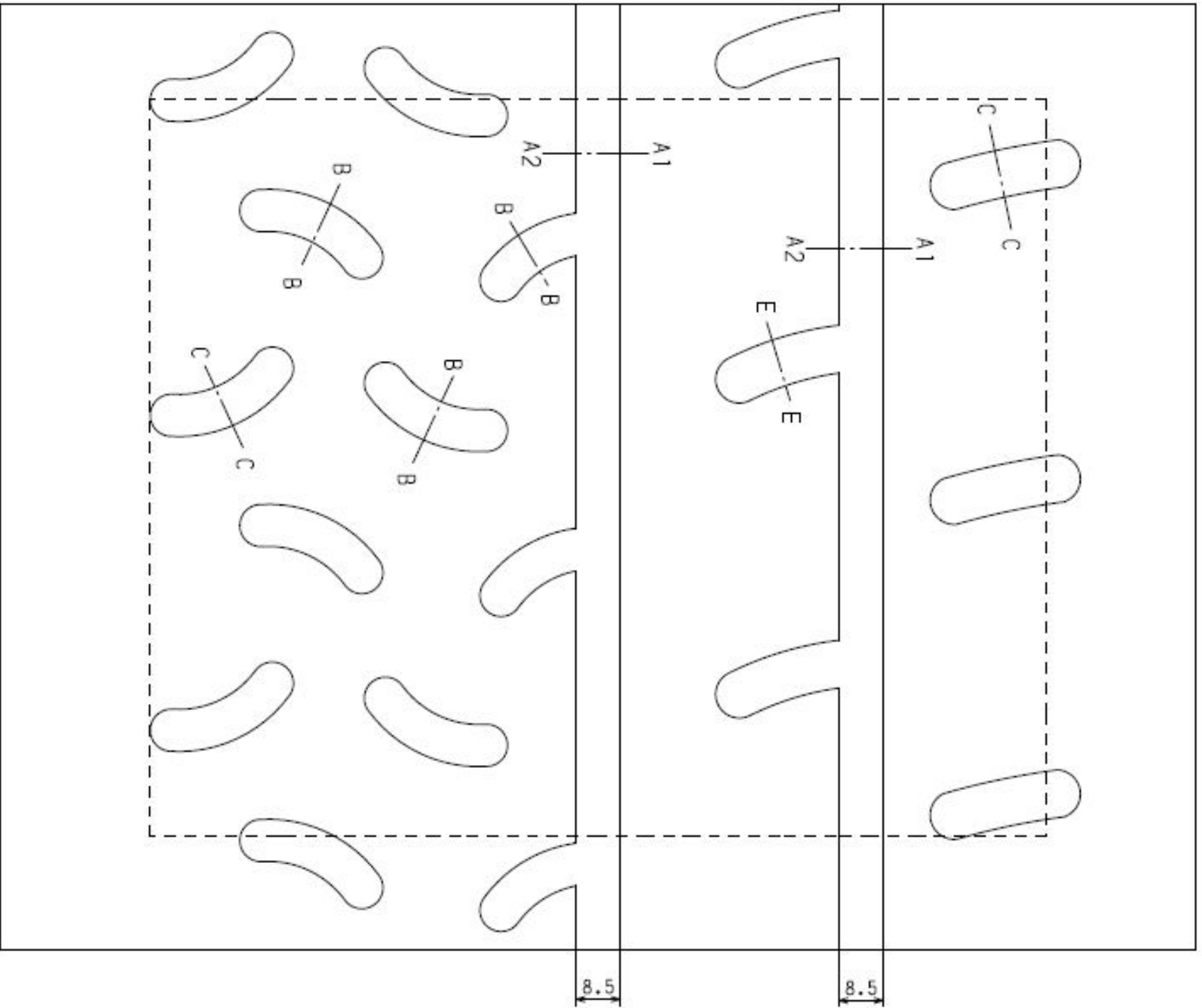


CLASS 8"
RIM 7"

4									
3									
2									
1									
N									
GENERAL WORKING TOLERANCE UNI 3881-85		Project		Treatment		Modification		Date	
<input type="checkbox"/> LOW <input type="checkbox"/> MEDIUM <input checked="" type="checkbox"/> HIGH		Scale 1:1		Model PV		CONFIDENTIAL PROPERTY: The reproduction of all or any part of this drawing and the communication 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.		Pirelli Tyre spa 	
Drawing Description		Size 195/50-16 RK		Tread 1838A		Date 19/03/2014		Sign	
		LAWD & SEA				PE - MG		MAZZOCCHI	
								PRO/E	
								P_30004_291	



18" – 235/40-18



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

----- Control area 170X140

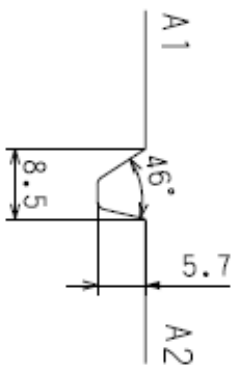
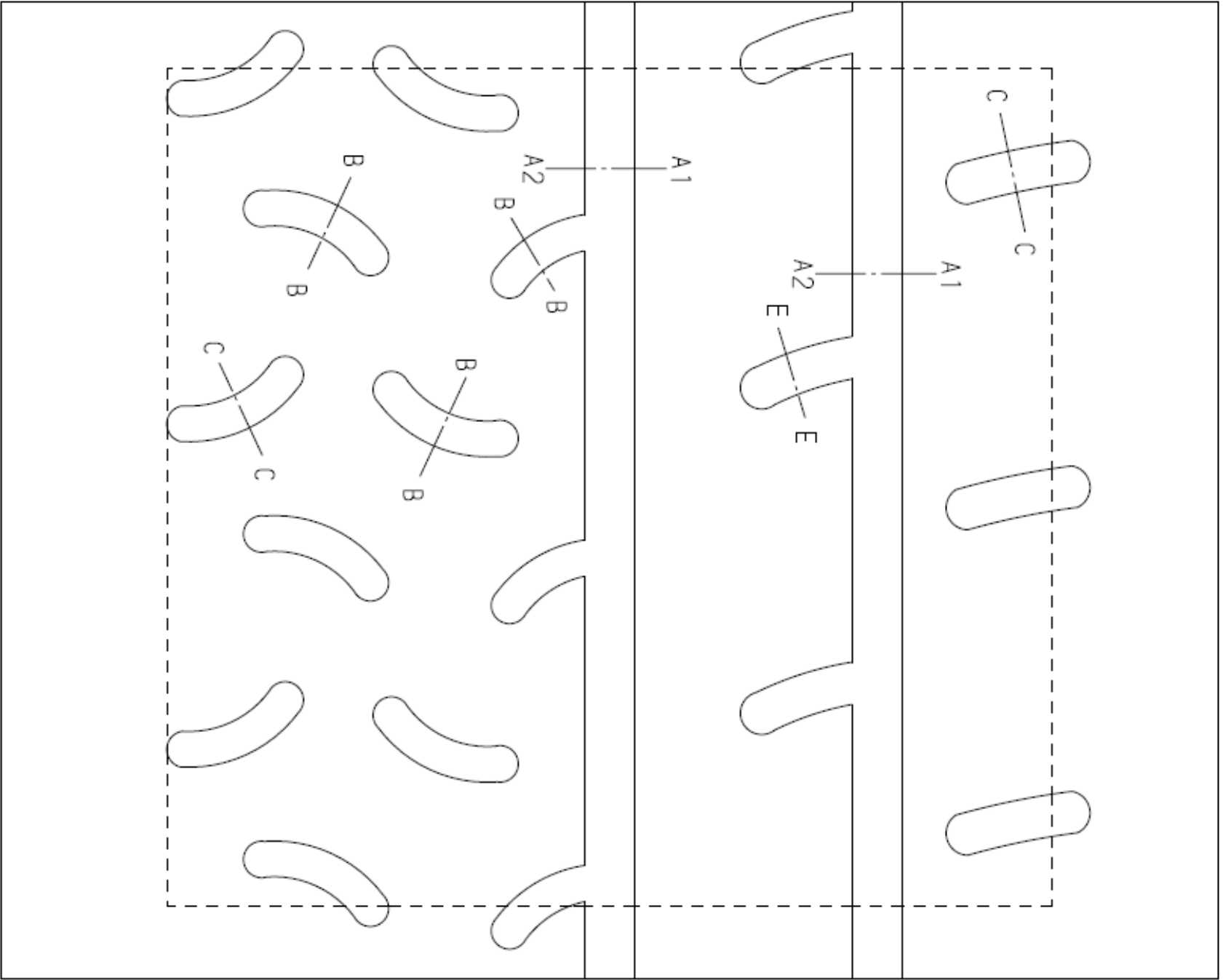
Tyre weight 9.7kg

PRODUCT NAME
YOKOHAMA ADVAN A051T

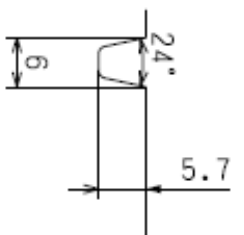
PATTERN NAME
A051A

SIZE 210/650R18

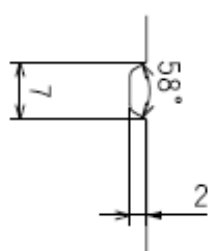
17" – 190/625-17



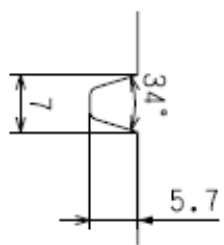
SEC. A1-A2



SEC. B-B



SEC. C-C



SEC. E-E

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

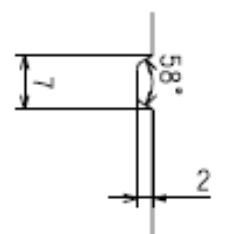
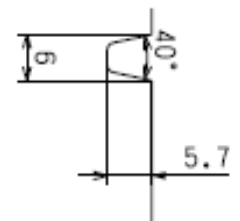
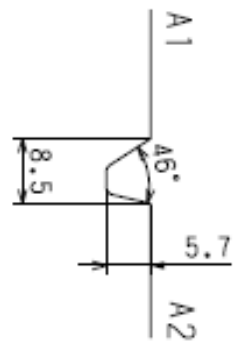
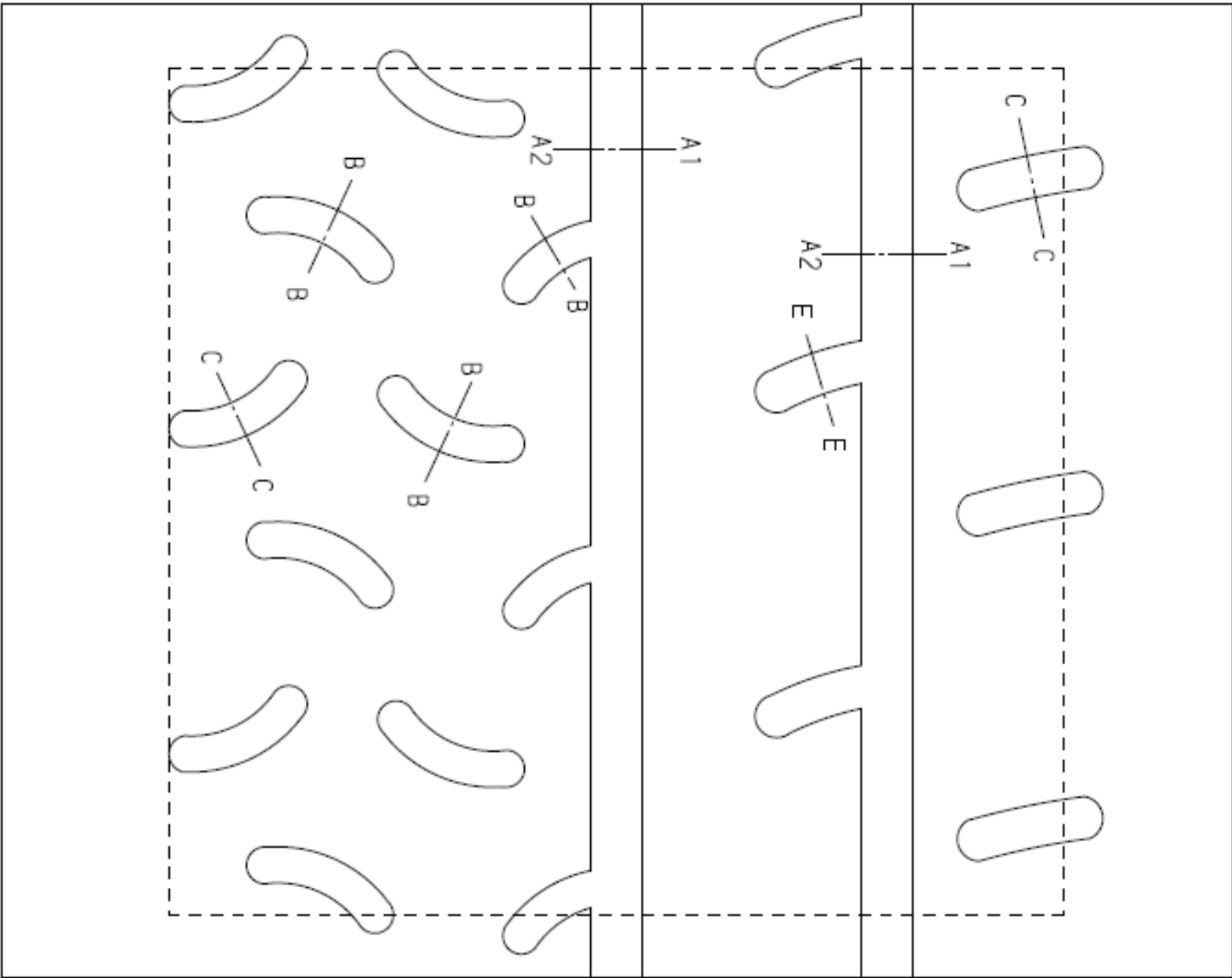
----- Control area 148X140

PRODUCT NAME
YOKOHAMA ADVAN A0517

PATTERN NAME
A051A

SIZE 190/625R17

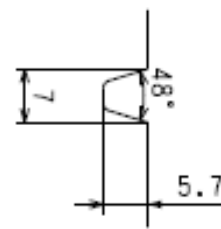
17" – 210/625-17



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%

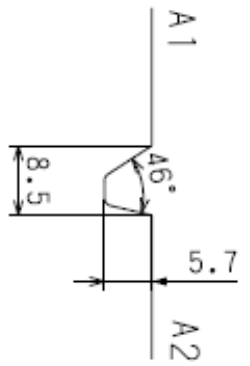
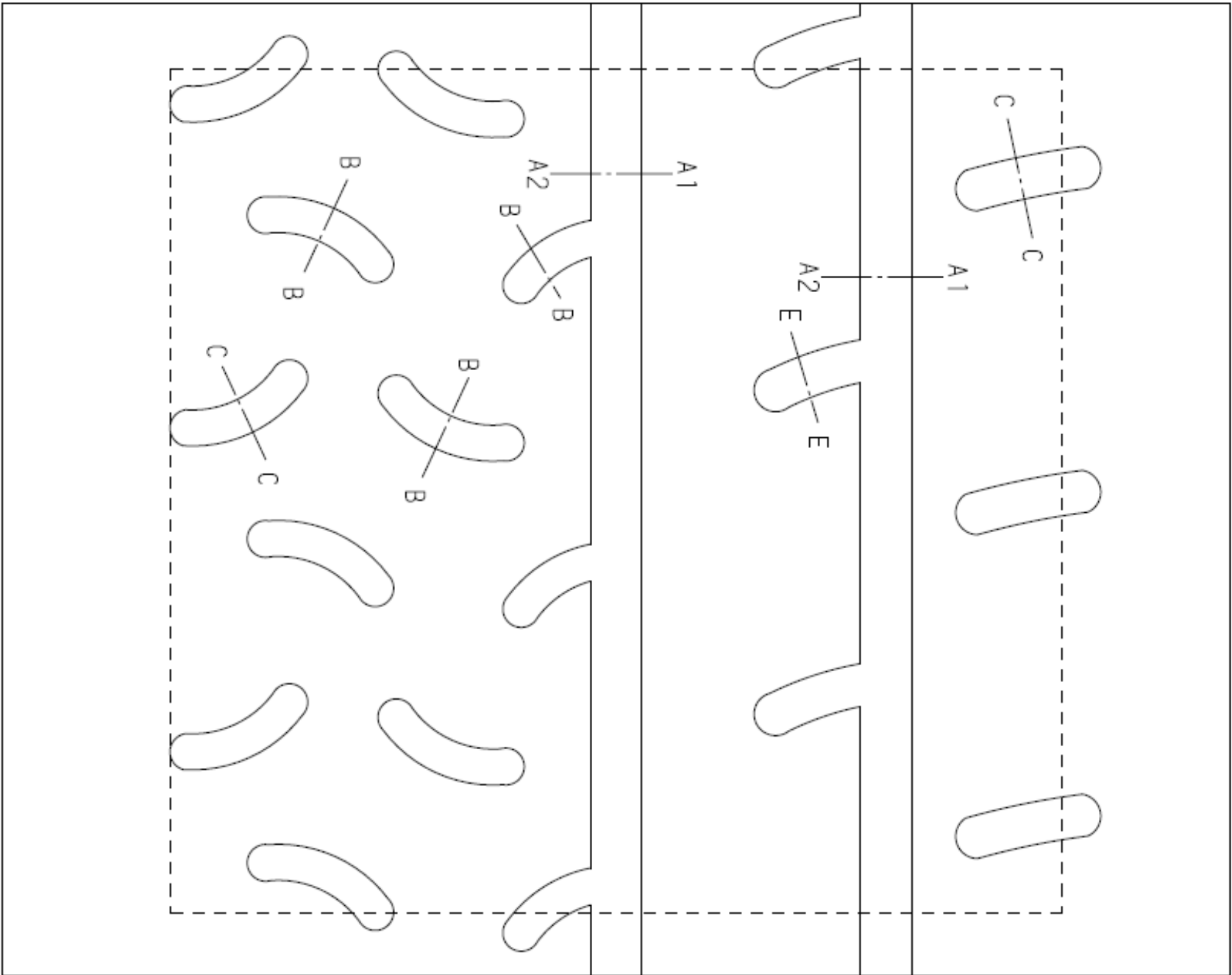
----- Control area 170X140

PRODUCT NAME
YOKOHAMA ADVAN A051T

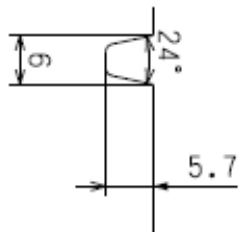
PATTERN NAME
A051A

SIZE 210/625R17

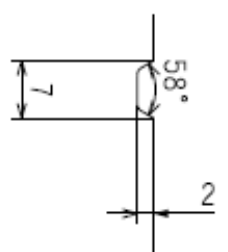
16" – 190/600-16



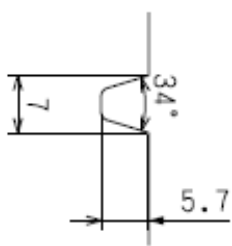
SEC. A1-A2



SEC. B-B



SEC. C-C



SEC. E-E

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

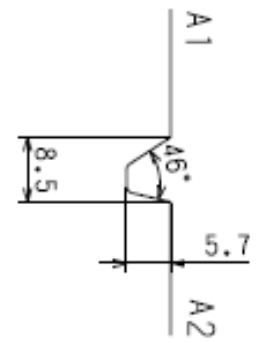
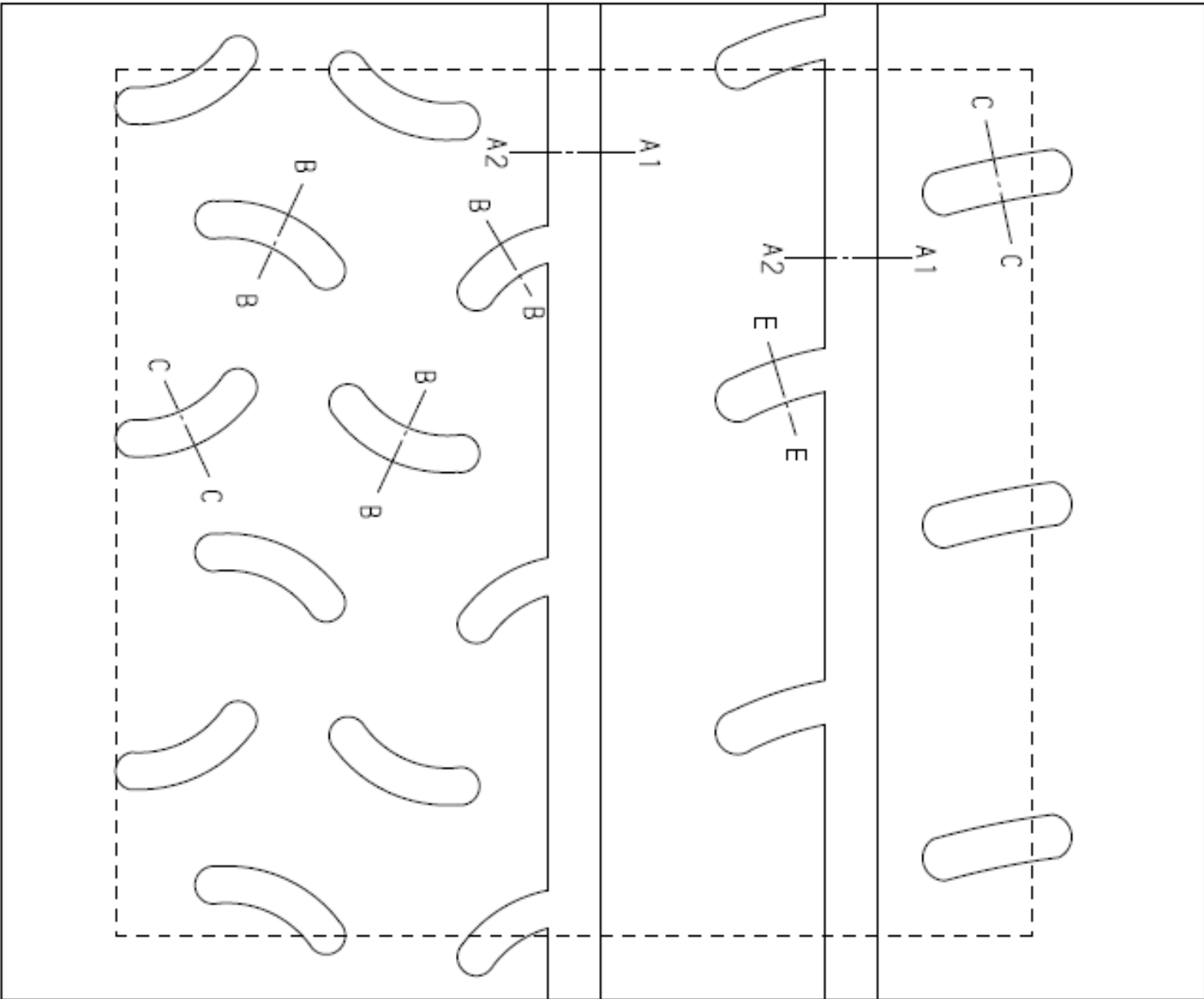
----- Control area 148X140

PRODUCT NAME
YOKOHAMA ADVAN A051T

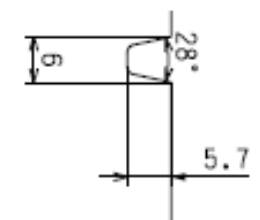
PATTERN NAME
A051A

SIZE 190/600R16

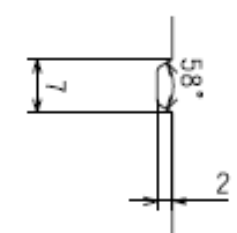
15" – 190/580-15



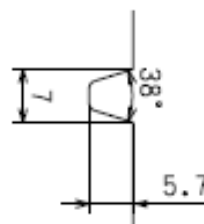
SEC. A1-A2



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

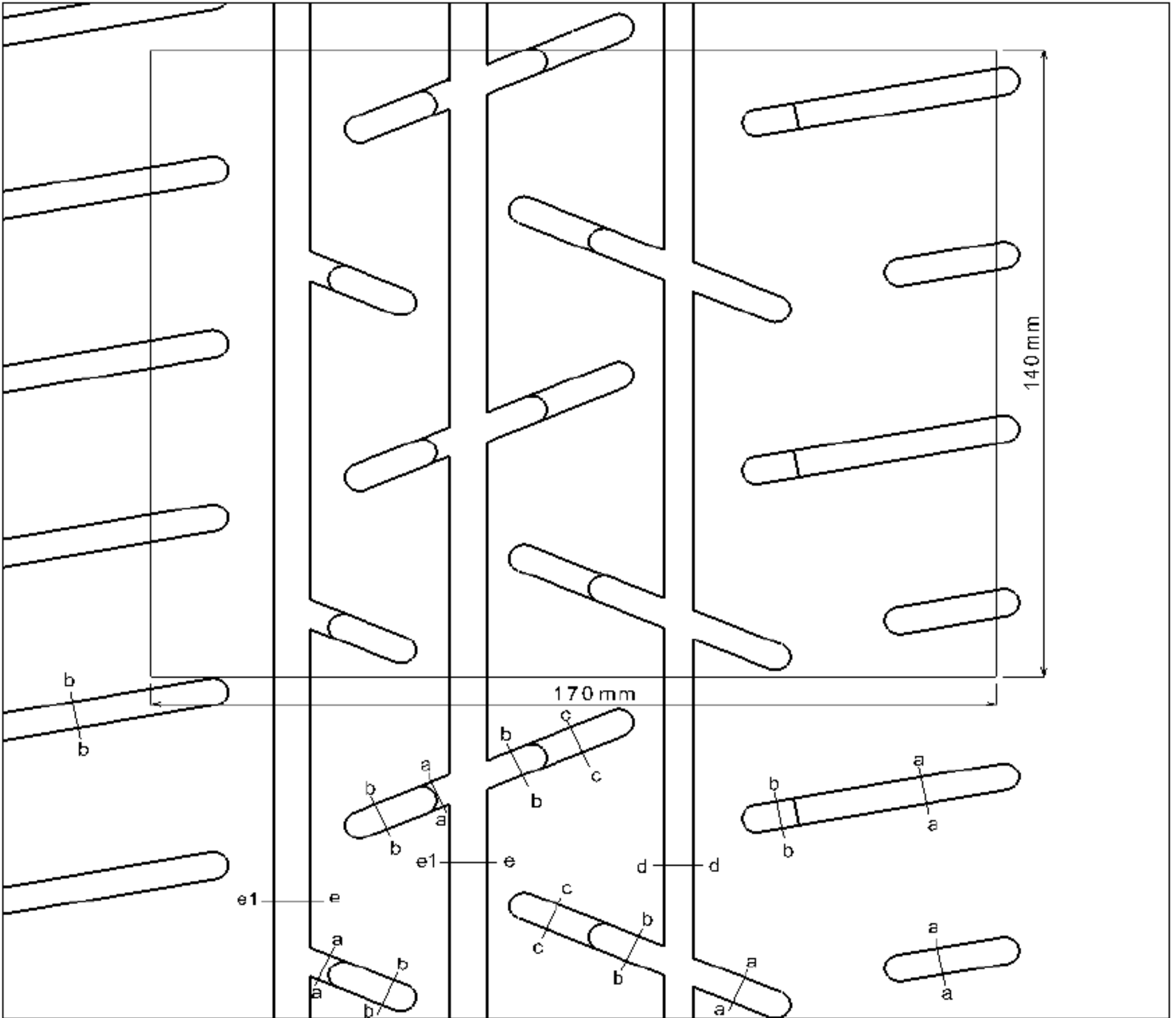
PRODUCT NAME
YOKOHAMA ADVAN A051T

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%

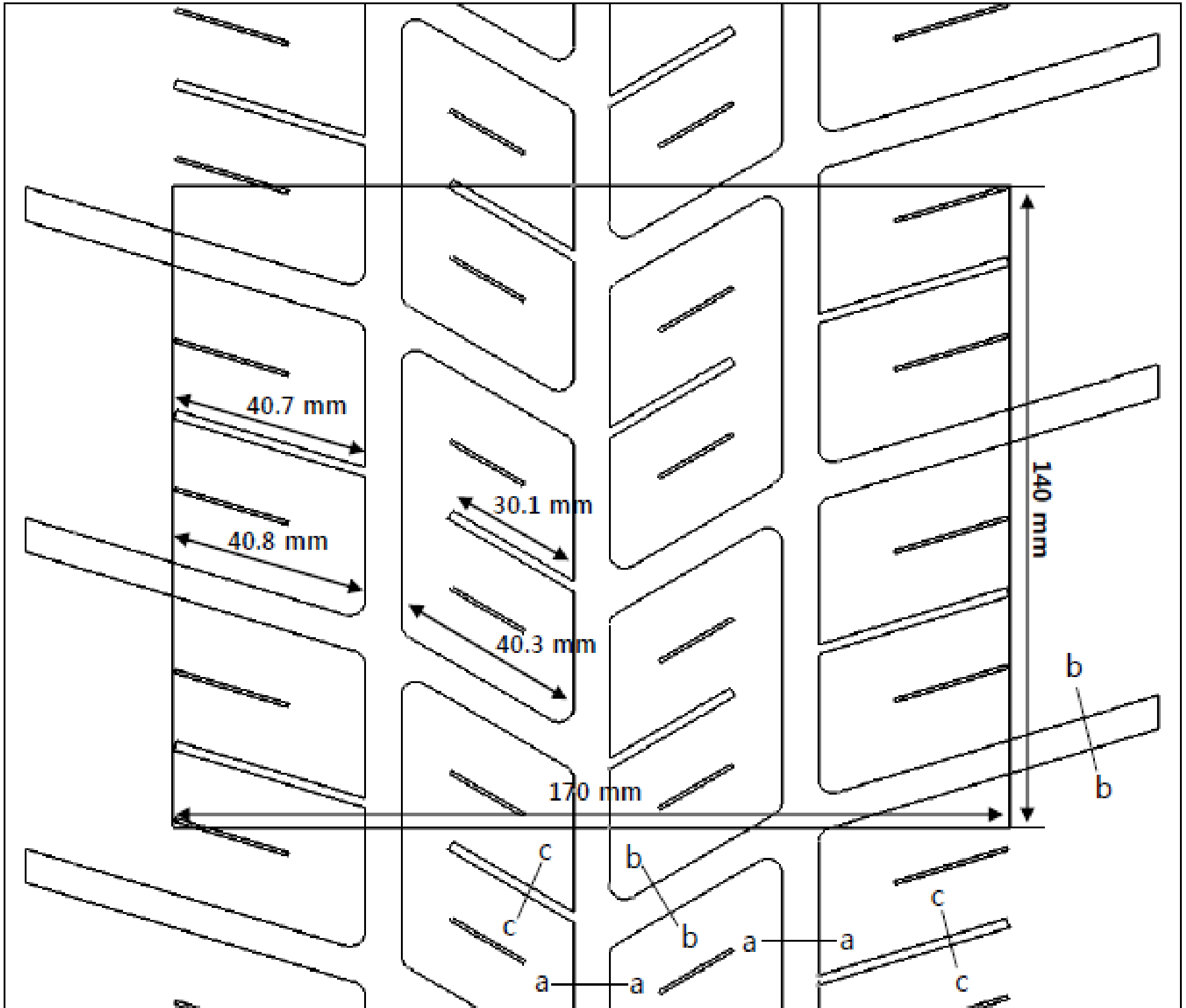
Empty Depth > 1.8mm : 23.30%

GROOVE SURFACE AREA = 554540 mm²

Control Surface = 23800 mm²

18" - 210/650R18

Product : Ventus Z210



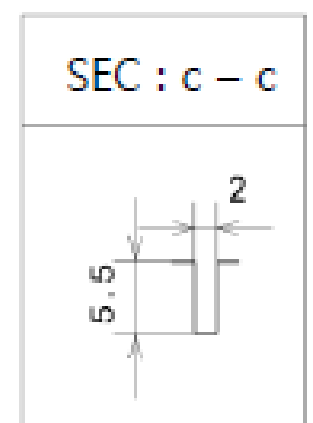
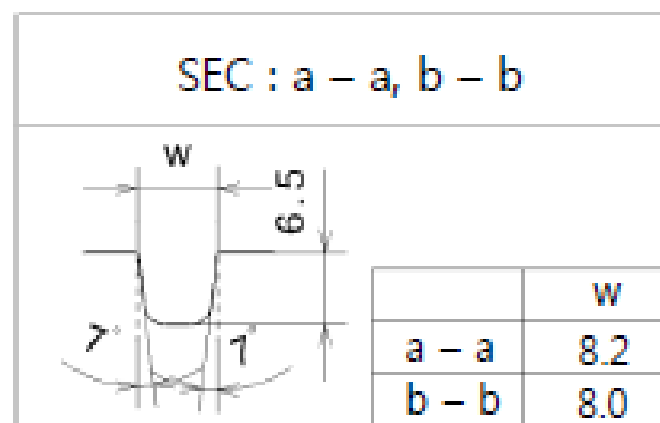
Class 9" (Rim 8")

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

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

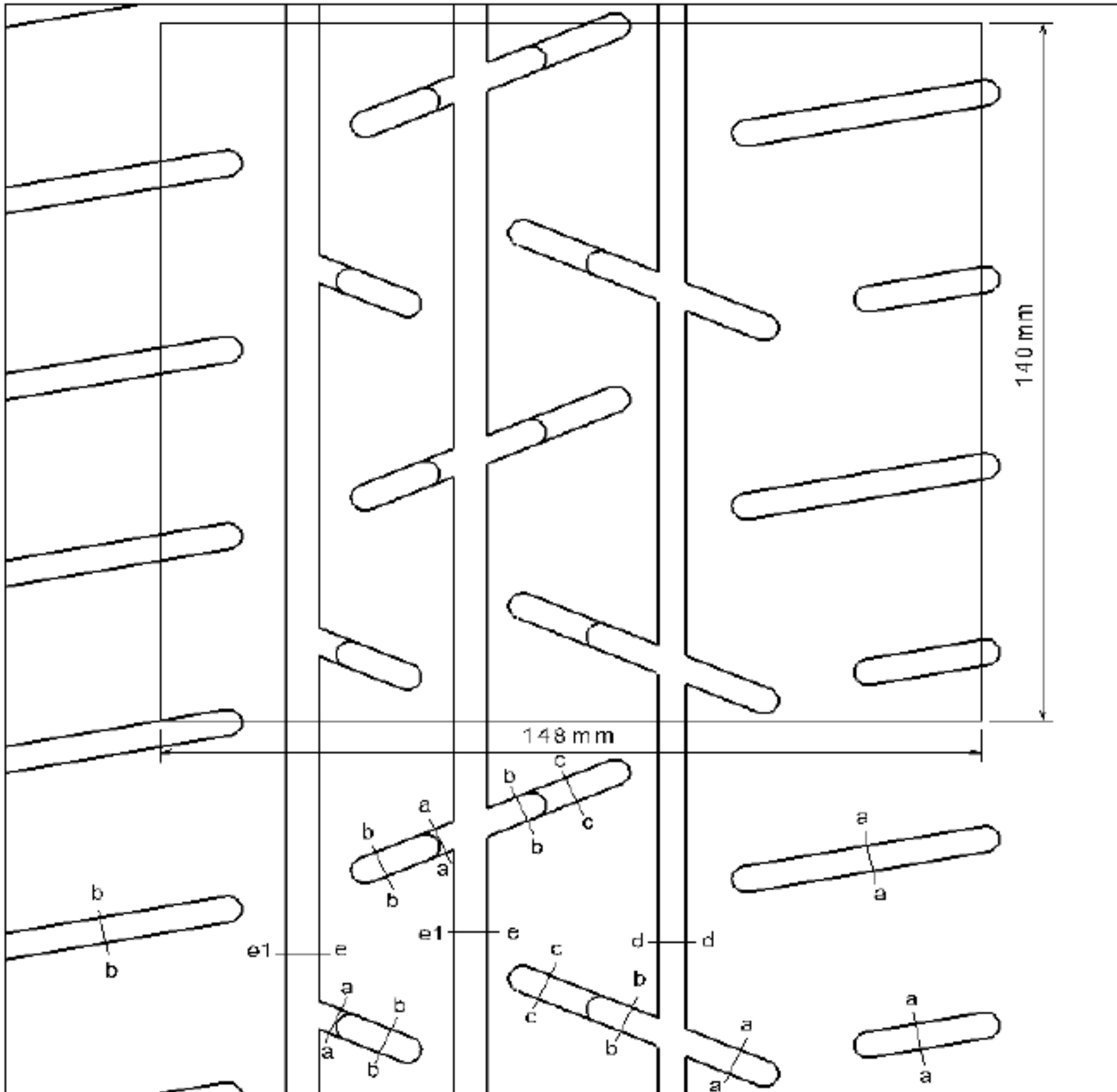
Empty Depth > 5.5mm : 27.5%

Control Surface = 23800 mm²



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%

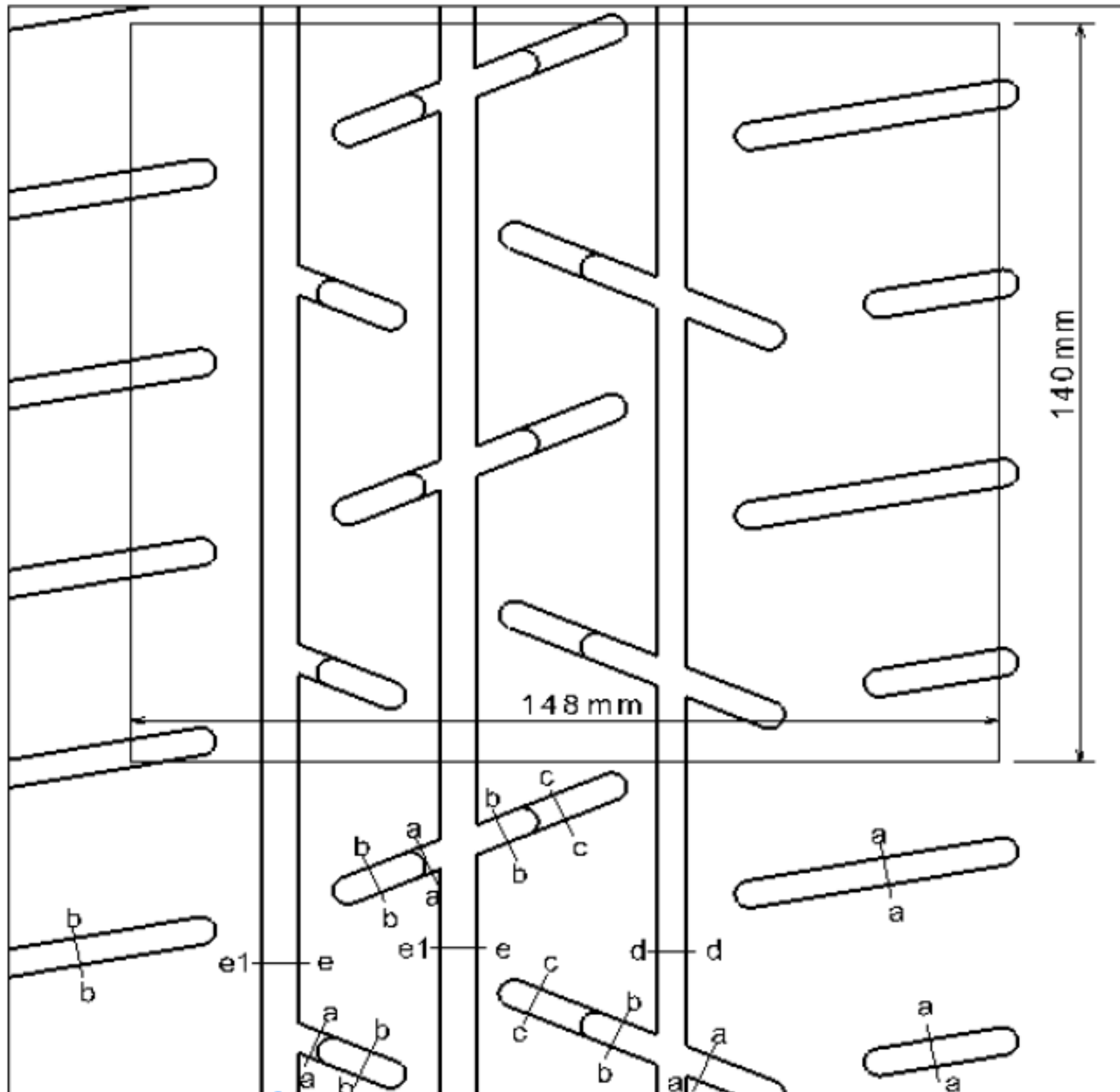
8

GROOVE SURFACE AREA = 353483.2 mm²

Control Surface = 20720 mm²

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 mm²

Control Surface = 20720 mm²



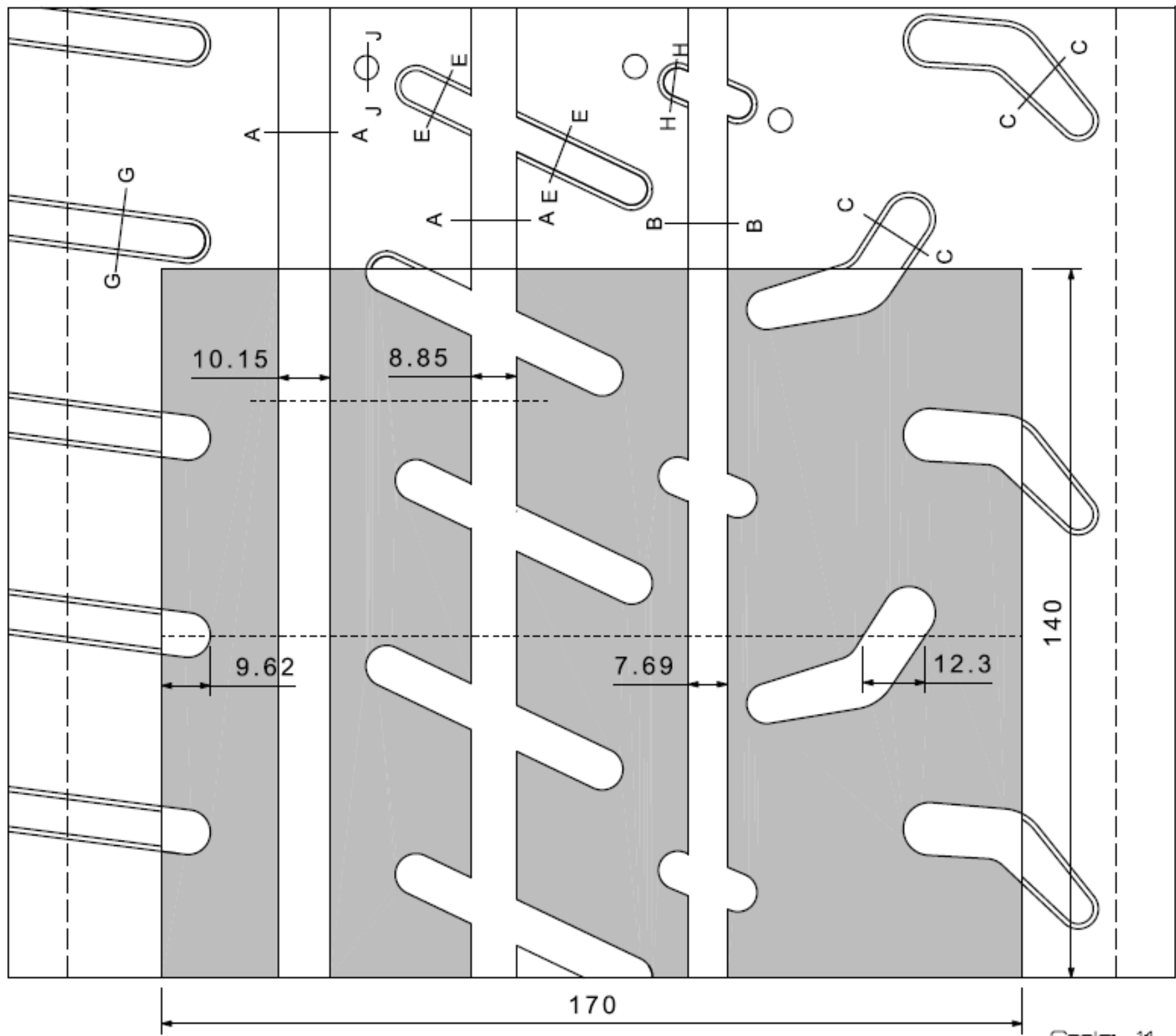
KUMHO TYRES

18" - 210/645R18

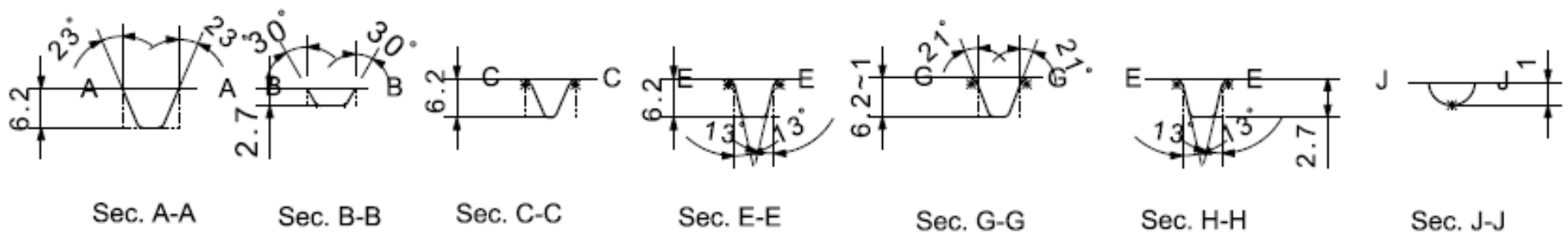
Moulded tyre for FIA homologation
 Size : 210/645R18
 Pattern : TM01

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 : 5815.4mm²
 Void % : 24.4%
 Groove Area by 170 x 140 at least 5.5mm deep : 4580.7mm²
 Void % : 19.2%





KUMHO TYRES

18" - 210/645R18

KUMHO TIRE

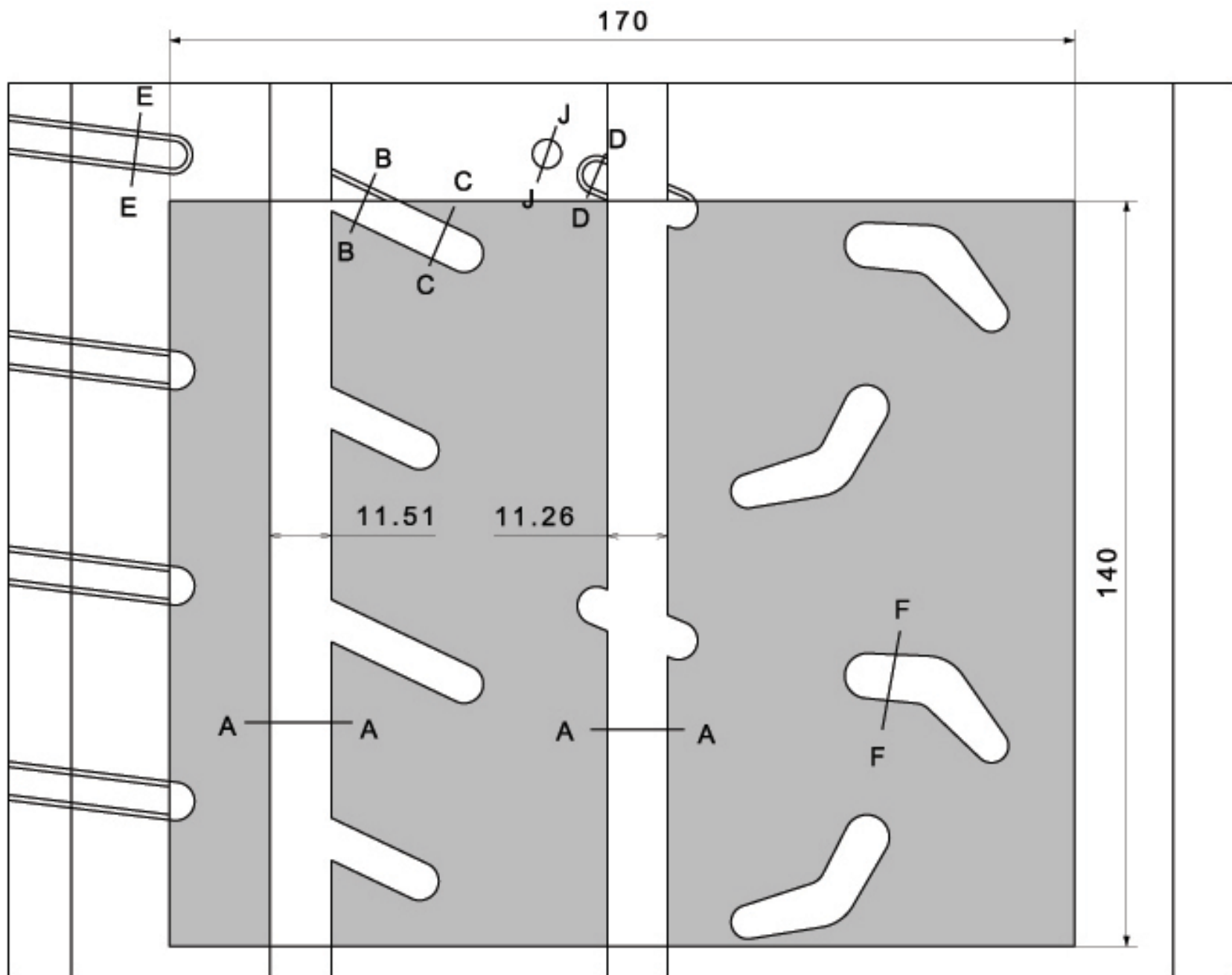
Moulded tyre for FIA homologation

Size : 210/645R18

Pattern : TM02

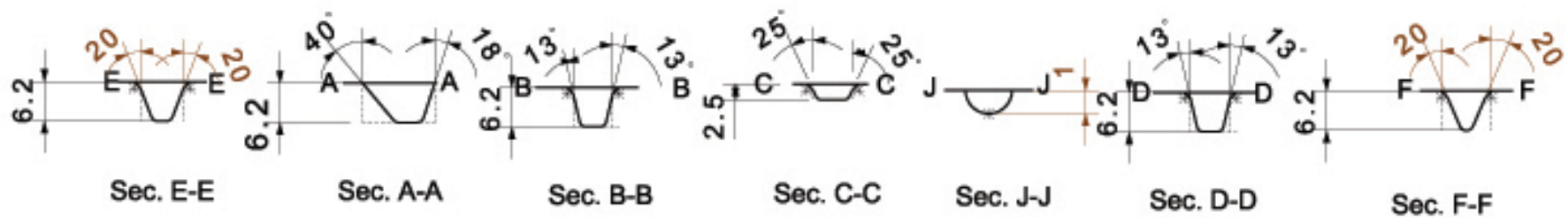
On the basis of a tread pattern width of 170mm and circumference of 140mm

- 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 : 5159mm²
 Void % : 21.7%
 Groove Area by 170 x 140 at least 5.5mm deep : 4446mm²
 Void % : 18.7%





KUMHO TYRES

18" - 210/645R18

KUMHO TIRE

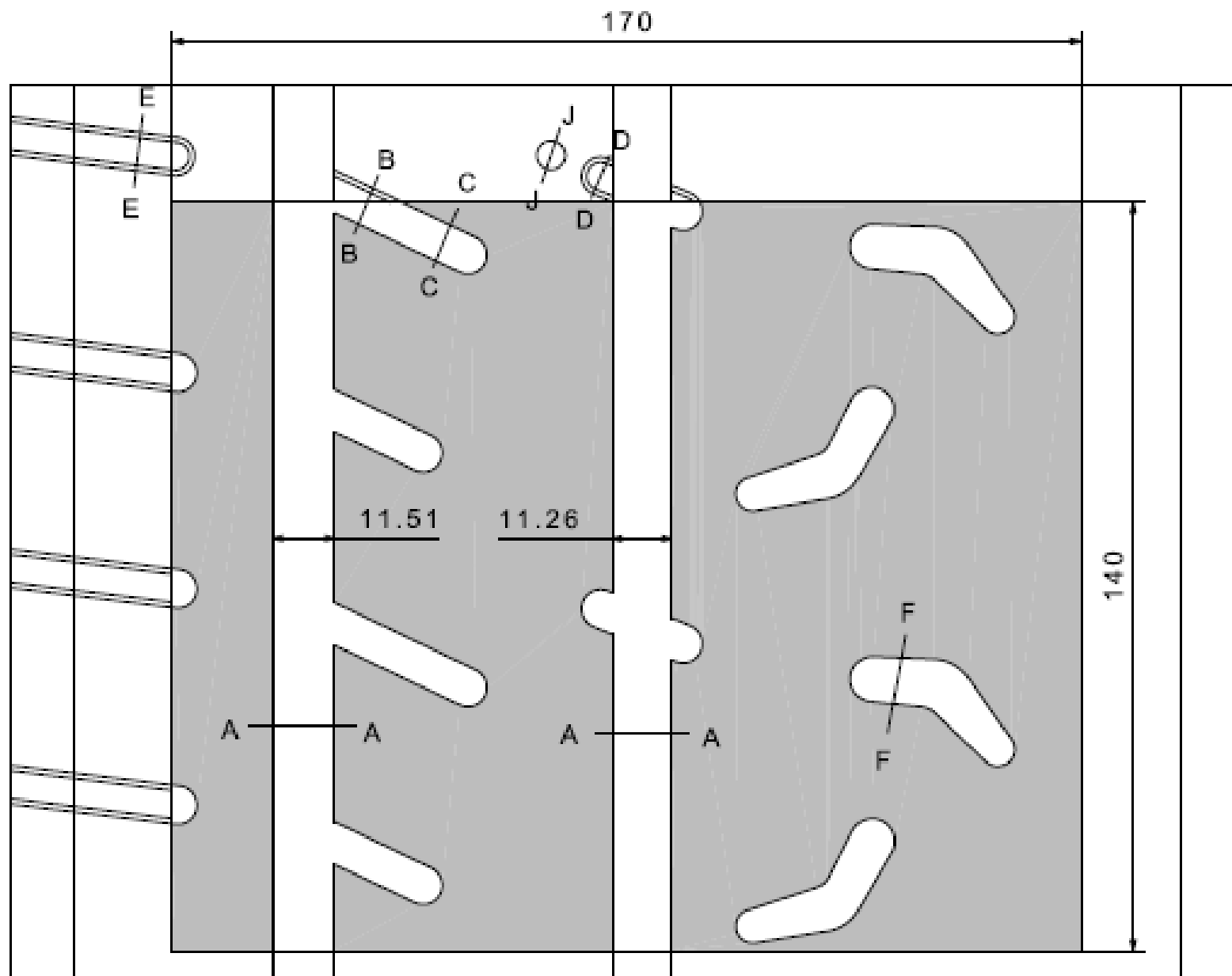
Moulded tyre for FIA homologation

Size : 210/645R18

Pattern : TM02

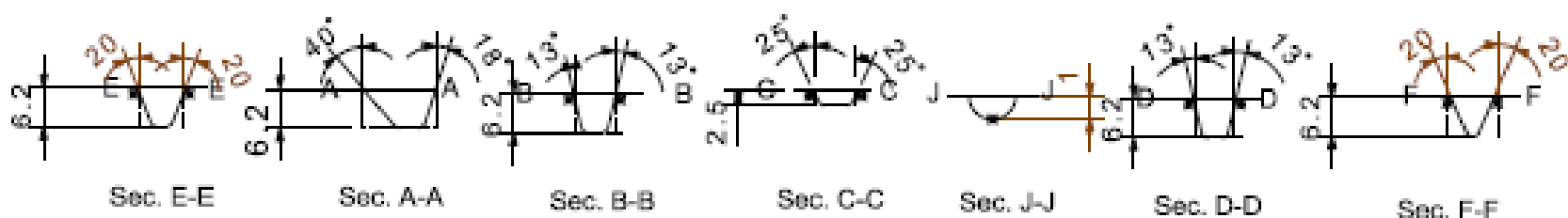
On the basis of a tread pattern width of 170mm and circumference of 140mm

- 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 : 5159mm²
 Void % : 21.7%
 Groove Area by 170 x 140 at least 5.5mm deep : 4446mm²
 Void % : 18.7%



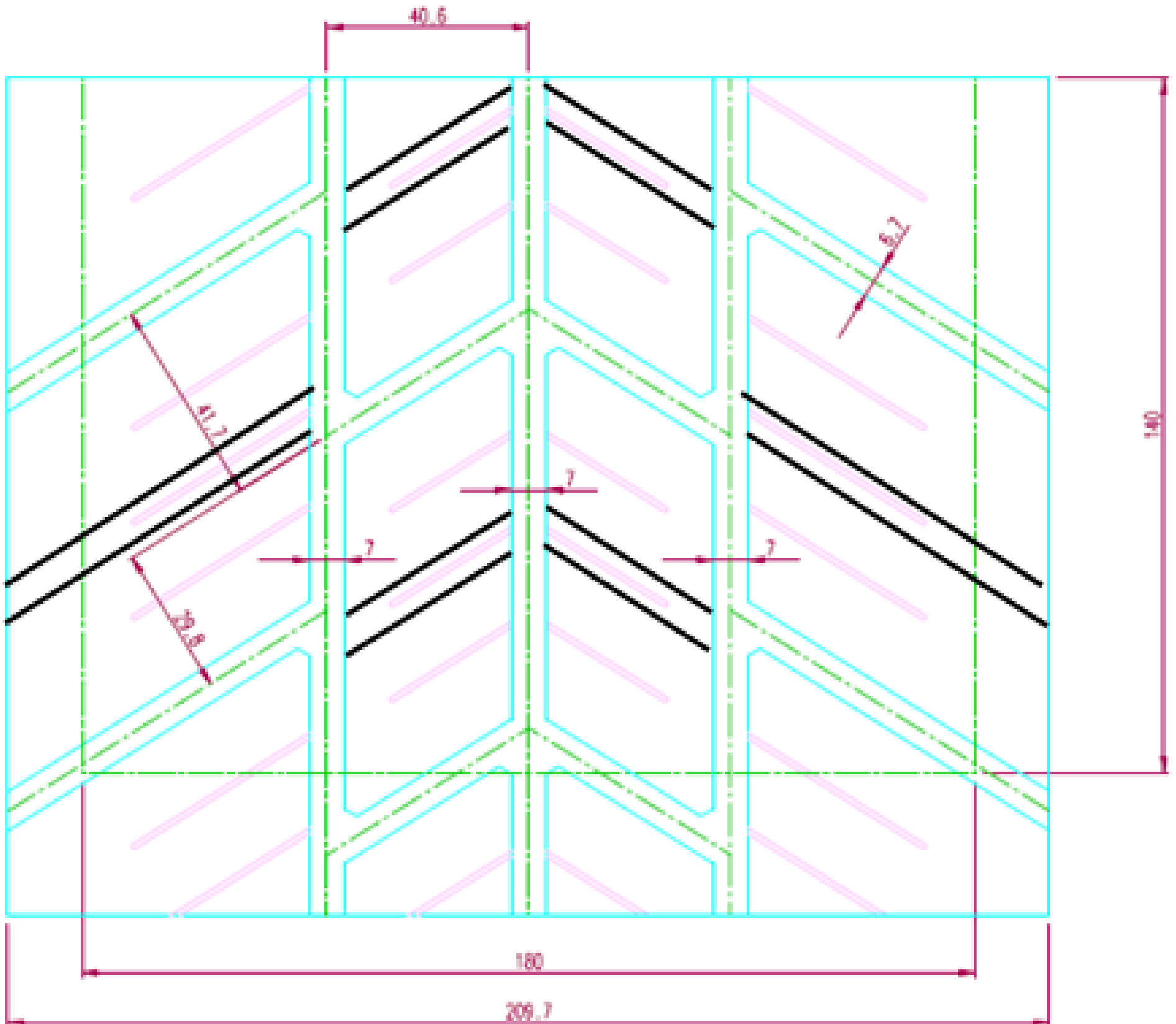


KUMHO TYRES

18" - 210/645R18

Valid until 31.12.2018

MODIFICATION OF EXISTING KUMHO TW02 TO GIVE >27.5% VOID (HANDCUT GROOVES 6.7mm)





KUMHO TYRES

17" - 190/630R17

KUMHO TIRE

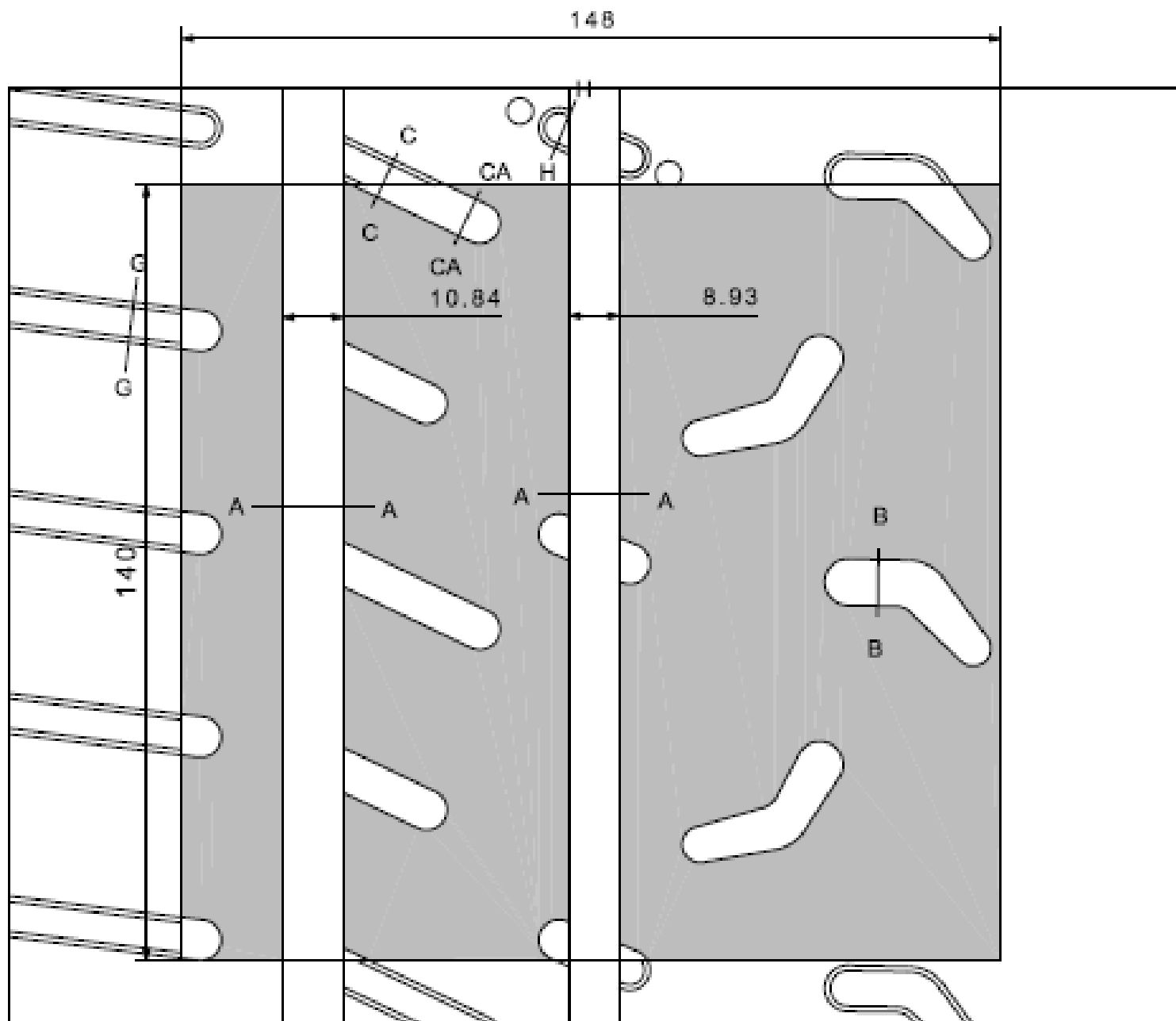
Moulded tyre for FIA homologation

Size : 190/630 R17

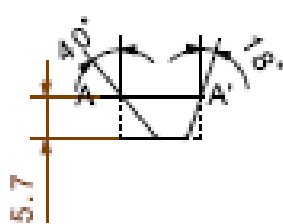
Pattern : TM02

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

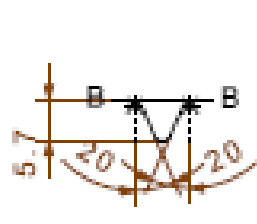
- The surface taken up by grooves at least 5.5 mm deep, with a maximum angle of 60° between the block in section and 2mm wide, must occupy at least 17% of the total surface.
- The surface taken up by grooves at least 1.8 mm deep, with a maximum angle of 60° between the block in section and 2mm wide, 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



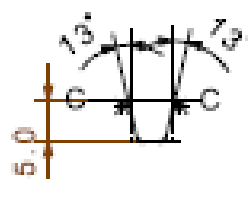
Groove Area by 148 x 140 at least 1.8mm deep : 4579.1mm²
 Void % : 22.1%
 Groove Area by 148 x 140 at least 5.5mm deep : 3688.1mm²
 Void % : 17.8%



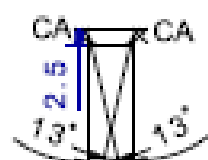
Sec. A-A'



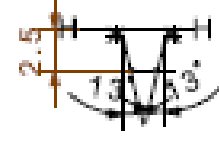
Sec. B-B



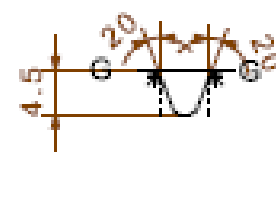
Sec. C-C



Sec. CA-CA



Sec. H-H



Sec. G-G

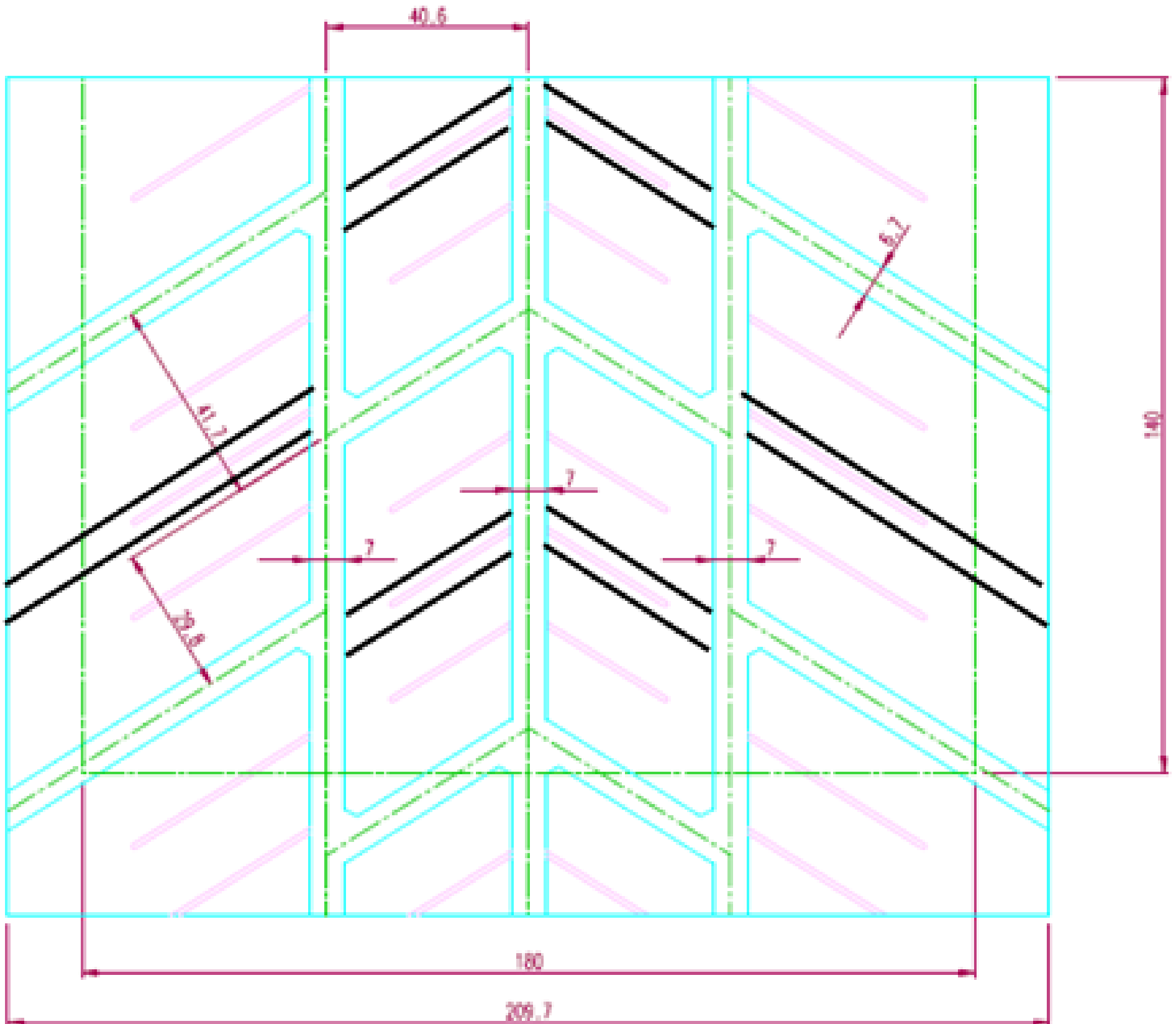


KUMHO TYRES

17" - 210/645R17

Valid until 31.12.2018

MODIFICATION OF EXISTING KUMHO TW02 TO GIVE >27.5% VOID (HANDCUT GROOVES 6.7mm)





KUMHO TYRES

16" - 190/600R16

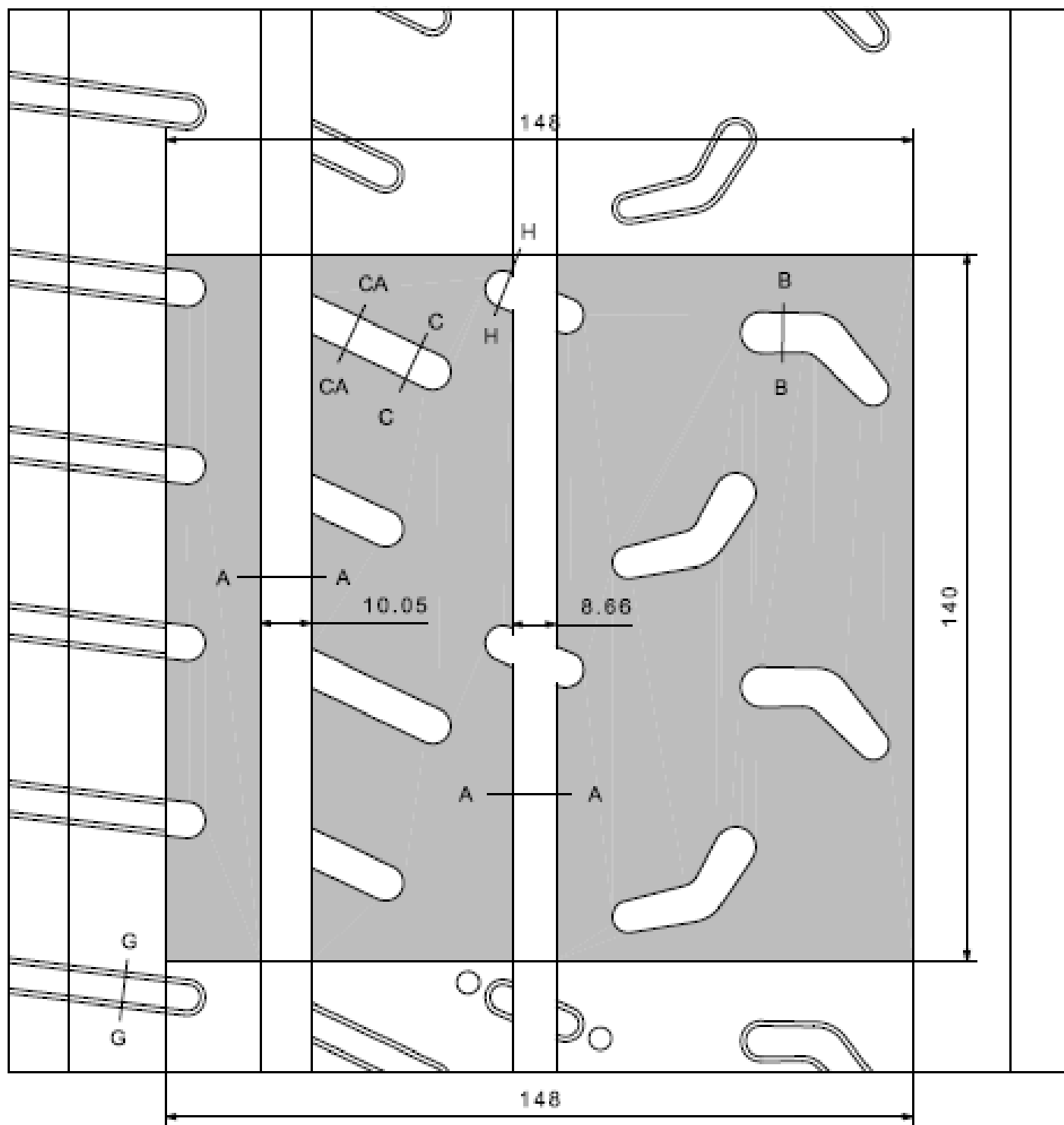
KUMHO TIRE

Moulded tyre for FIA homologation

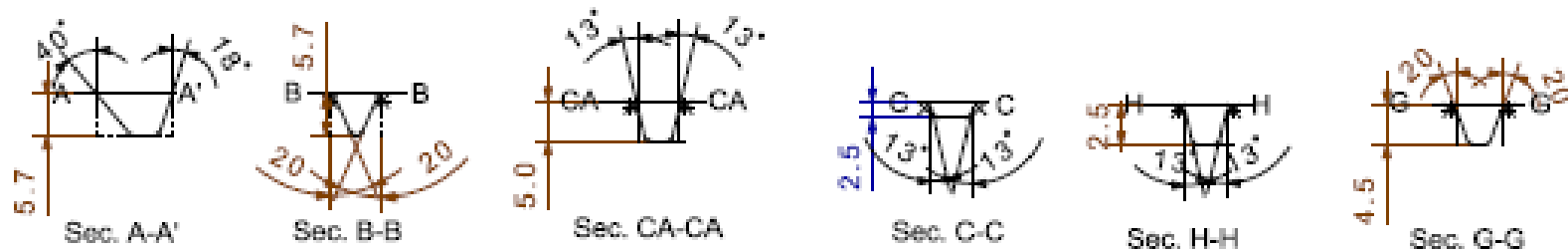
Size : 190/600 R16

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 : 4579.1mm²
 Void % : 22.1%
 Groove Area by 148 x 140 at least 5.5mm deep : 3584.5mm²
 Void % : 17.3%





KUMHO TYRES

15" - 180/580R15

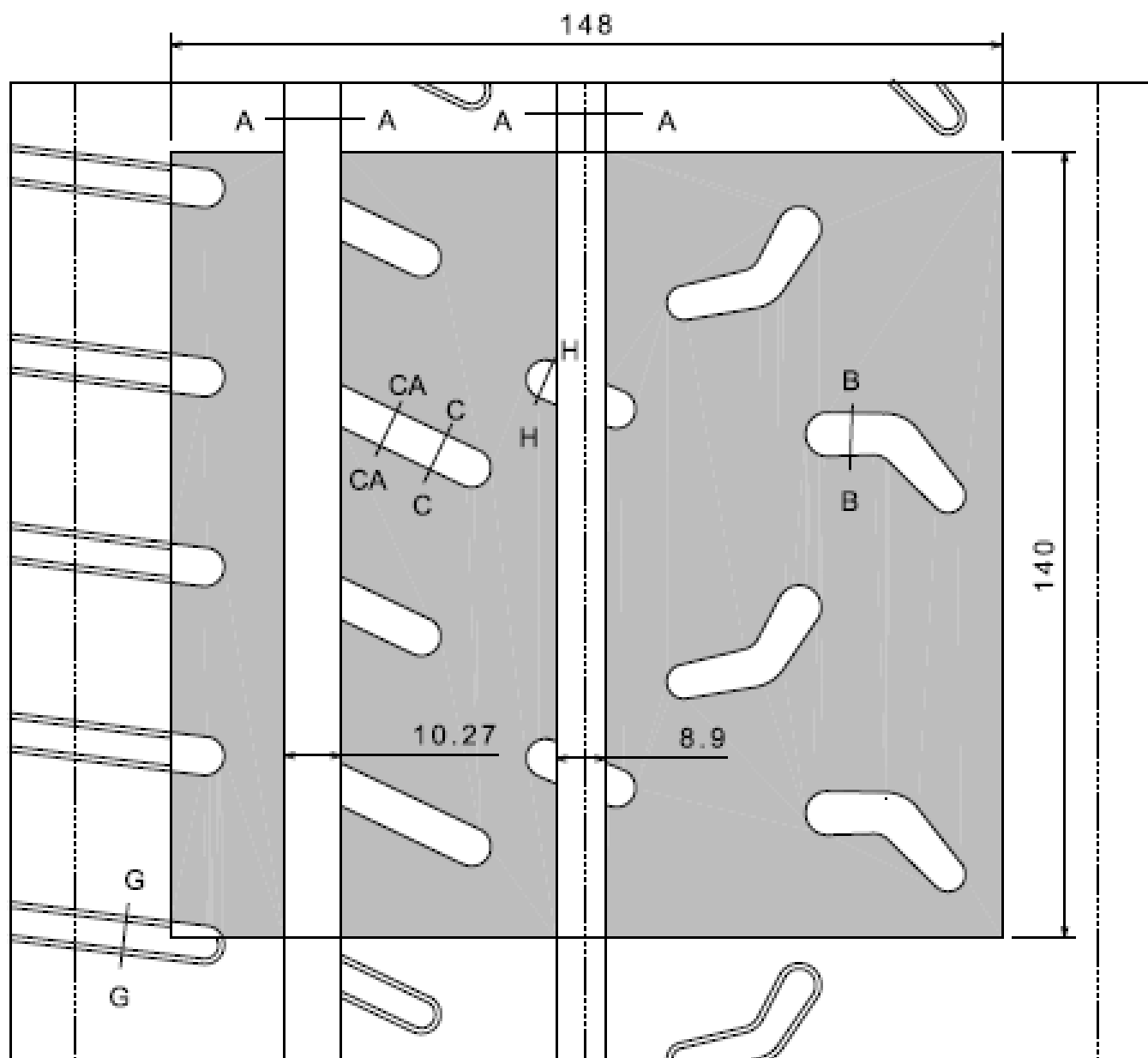
KUMHO TIRE

Moulded tyre for FIA homologation

Size : 180/580 R15

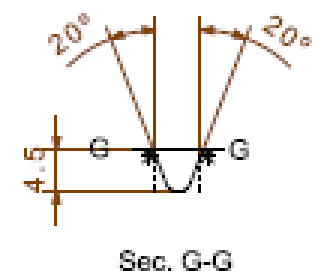
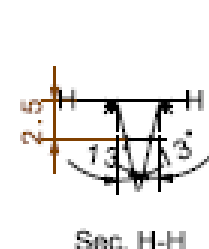
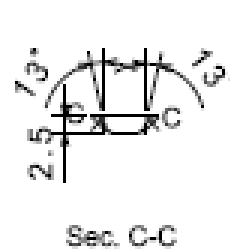
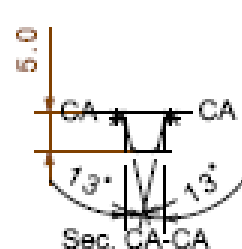
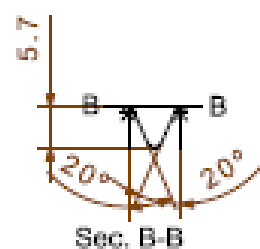
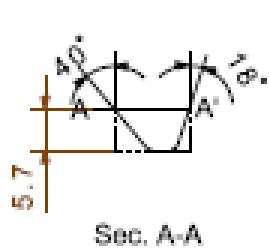
Pattern : TM02

- 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



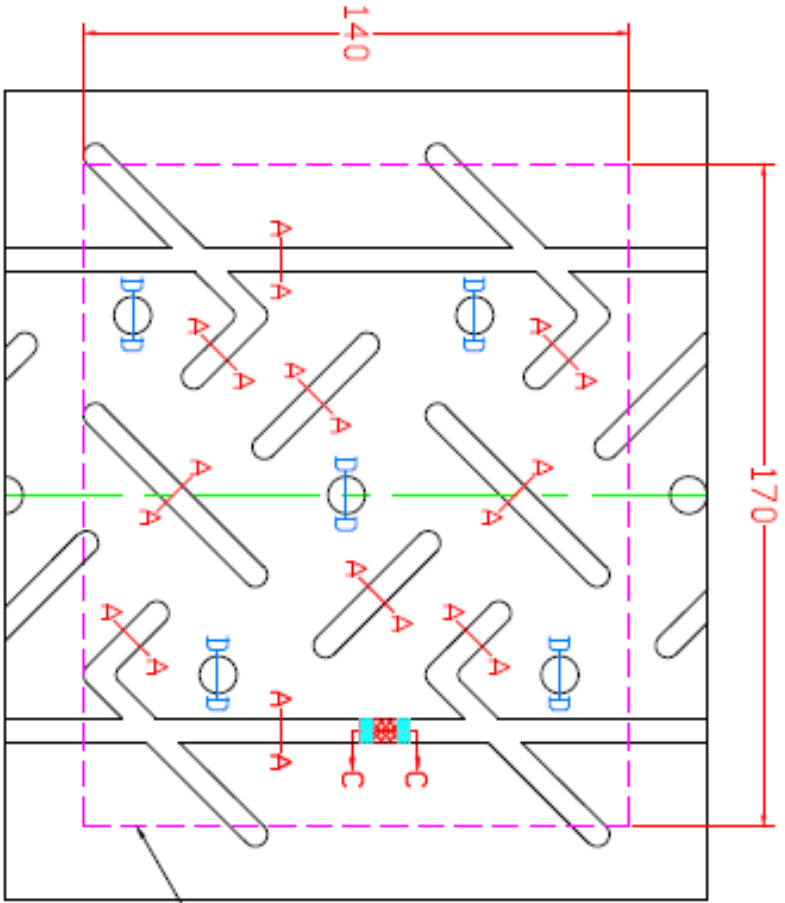
Scale 1:1

Groove Area by 148 x 140 at least 1.8mm deep : 4599.8mm²
 Void % : 22.2%
 Groove Area by 148 x 140 at least 5.5mm deep : 3563.8mm²
 Void % : 17.2%

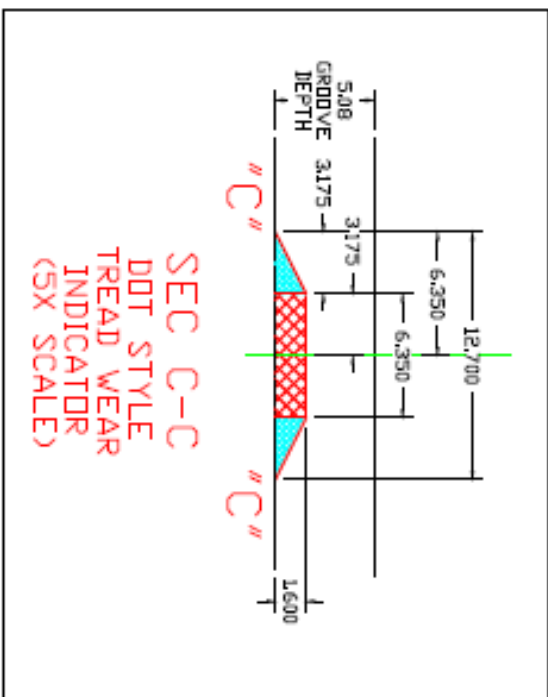
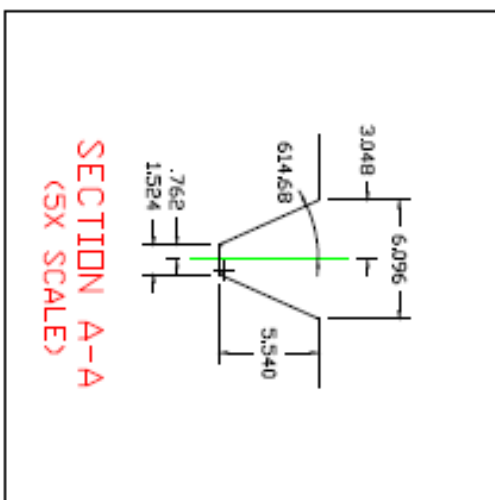
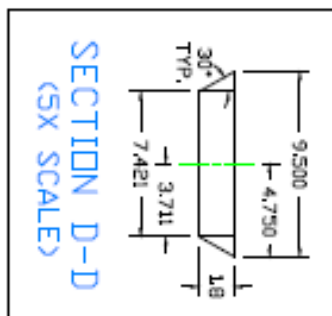


18" - 200/650R18

<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

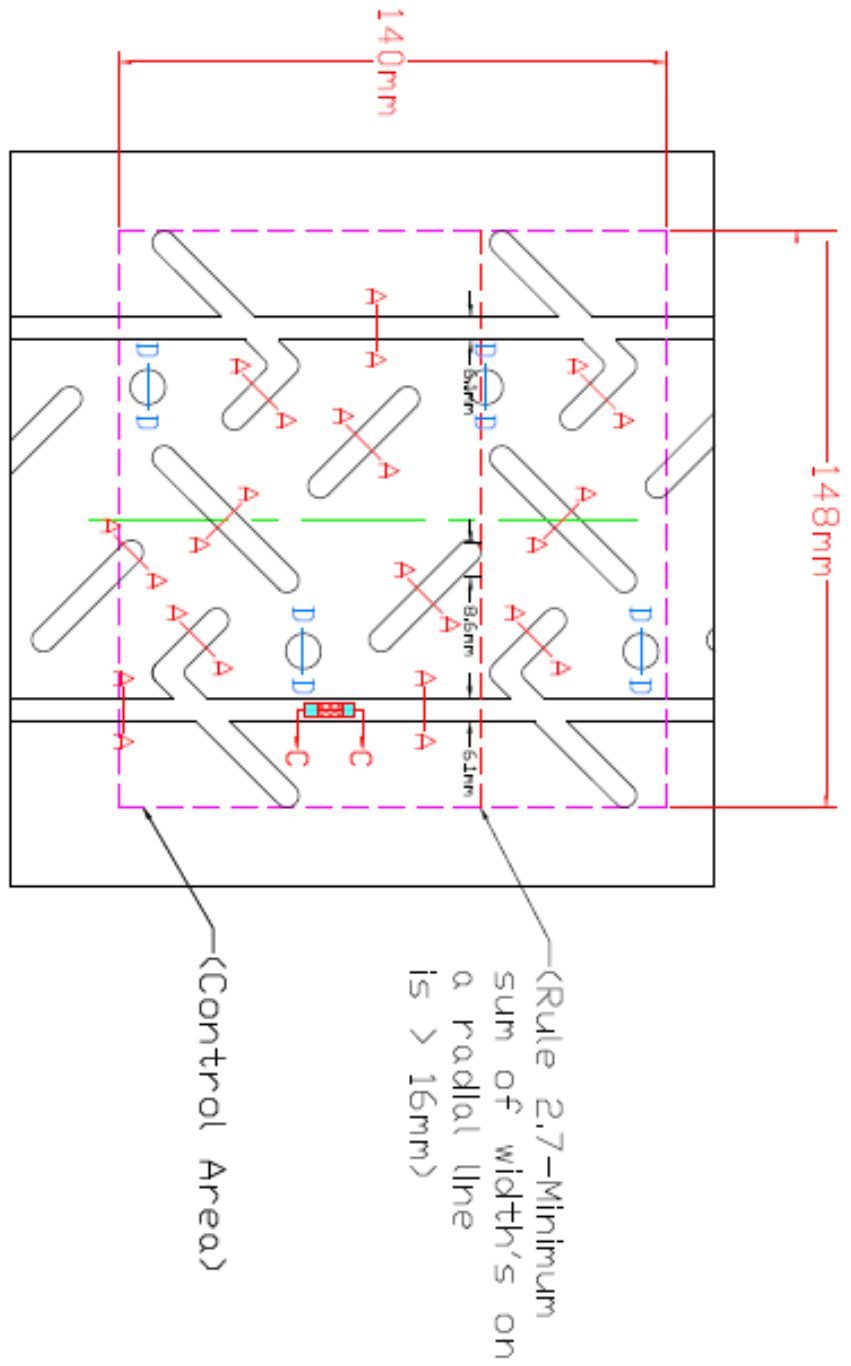
F.I.A. COMPLIANCE FOR '200/650R18'
ROAD RALLY

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

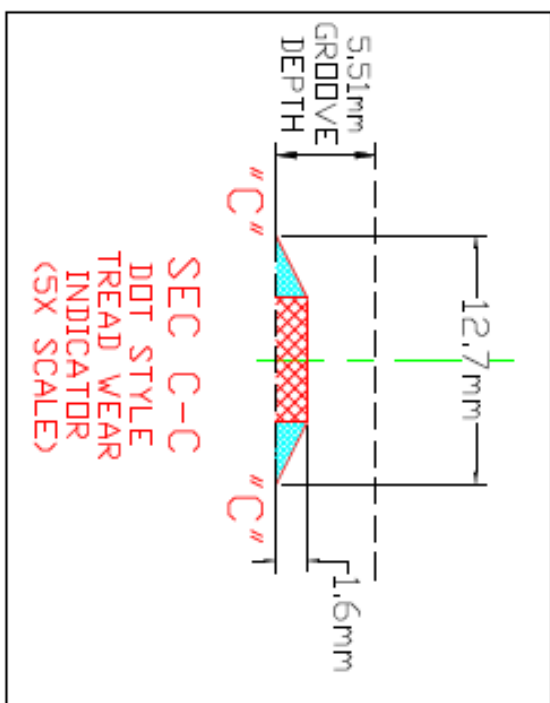
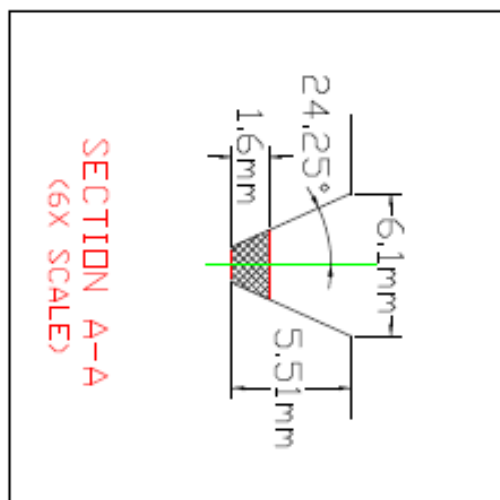
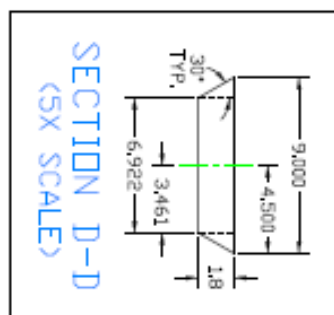
15" - 185/580R15



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

(Rule 2.7-Minimum sum of width's on a radial line is > 16mm)

(Control Area)



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

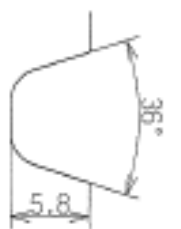
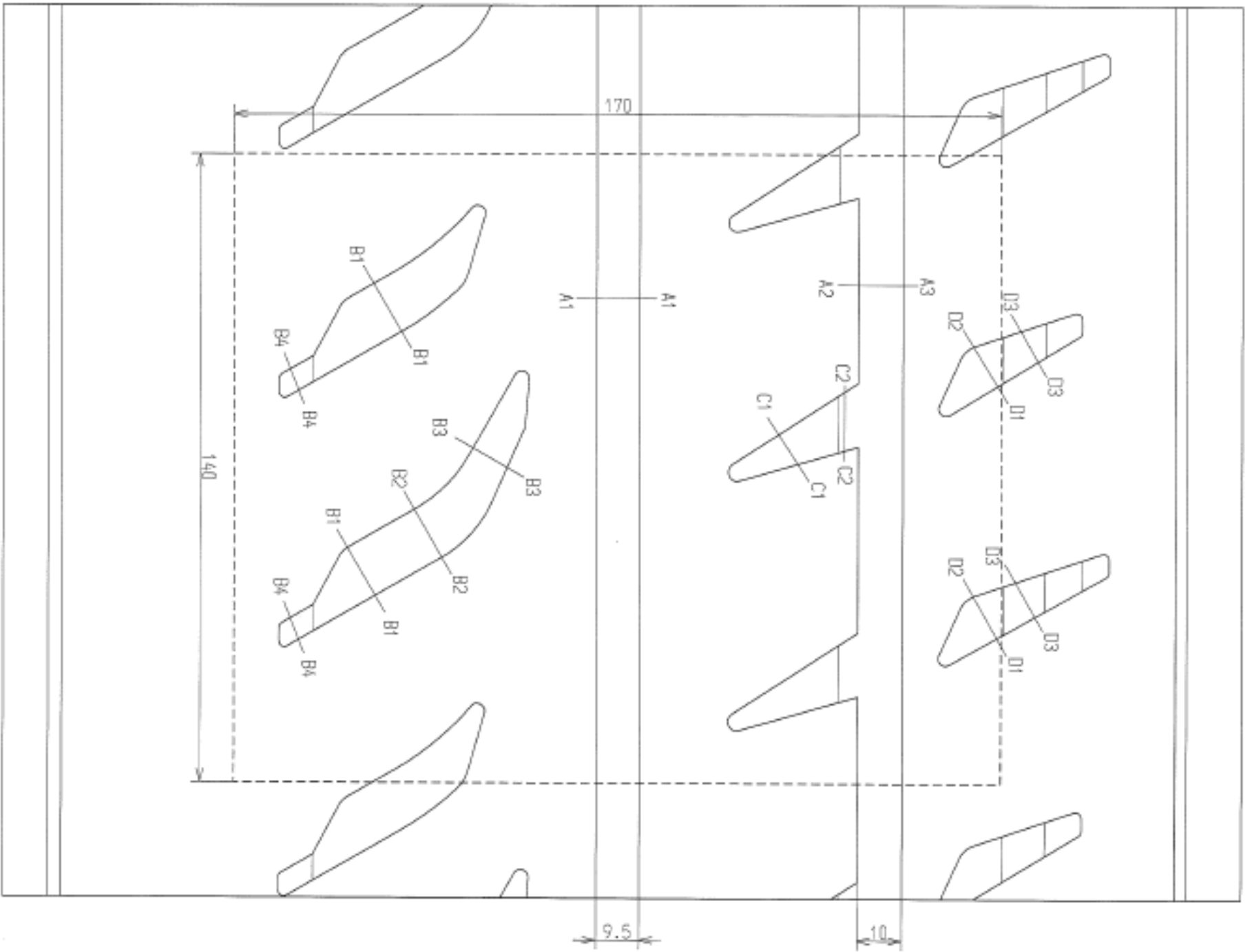
Hoosier RACING TIRE CORP.
LAKEVILLE, INDIANA

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

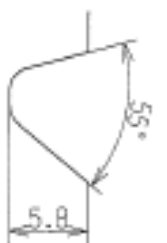
S/N 4854

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:	---

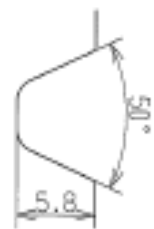
18" - 205/640R18



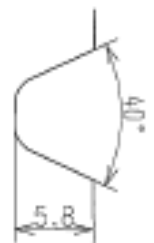
SEC.A1-A1



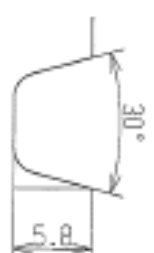
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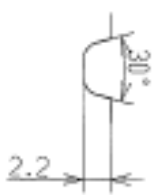
SEC.B1-B1



SEC.B2-B2



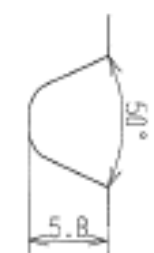
SEC.B3-B3



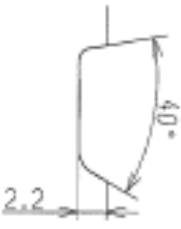
SEC.B4-B4



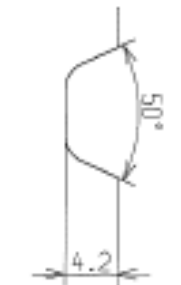
SEC.C1-C1



SEC.C2-C2



SEC.D1-D2



SEC.D3-D3

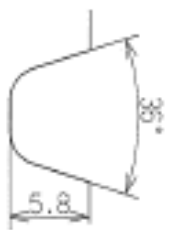
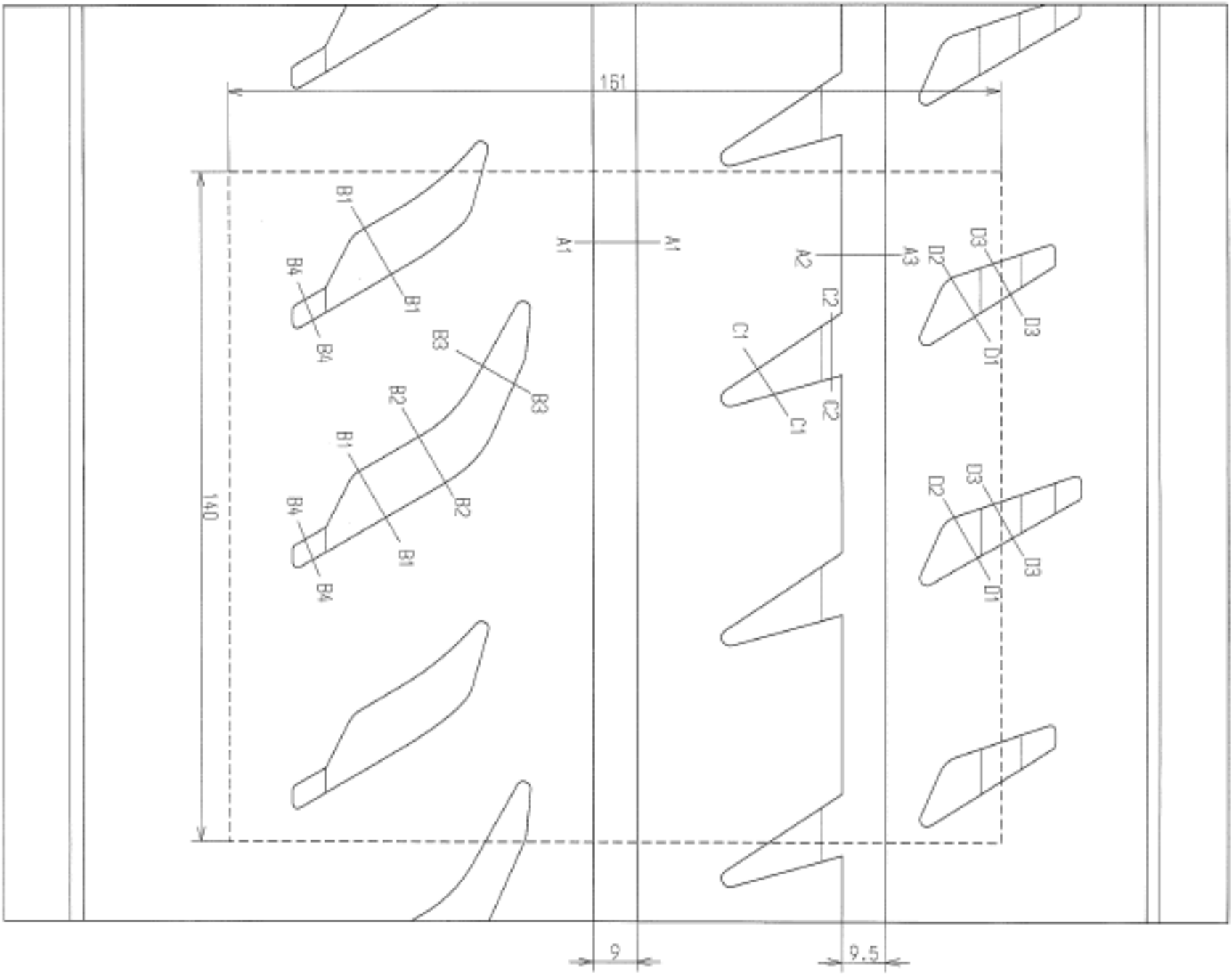
In the control area
5.5mm grooves-18.2%
Total grooves 22.3%

-----Control area(170x140)

PRODUCT NAME
TOYO PROXES 888RT

SIZE 205/640R18

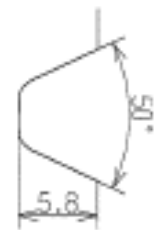
15" - 185/580R15



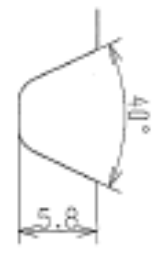
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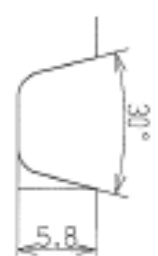
SEC.A2-A3



SEC.B1-B1



SEC.B2-B2



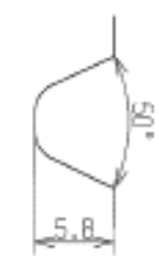
SEC.B3-B3



SEC.B4-B4



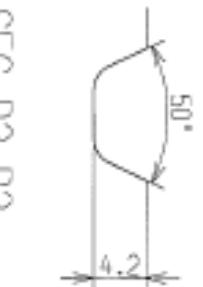
SEC.C1-C1



SEC.C2-C2



SEC.D1-D2



SEC.D3-D3

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

-----Control area(161 x 140)

PRODUCT NAME
TOYO PROXES 888RT

SIZE 185/580R15