



2017 List of Asphalt Eligible Tyres



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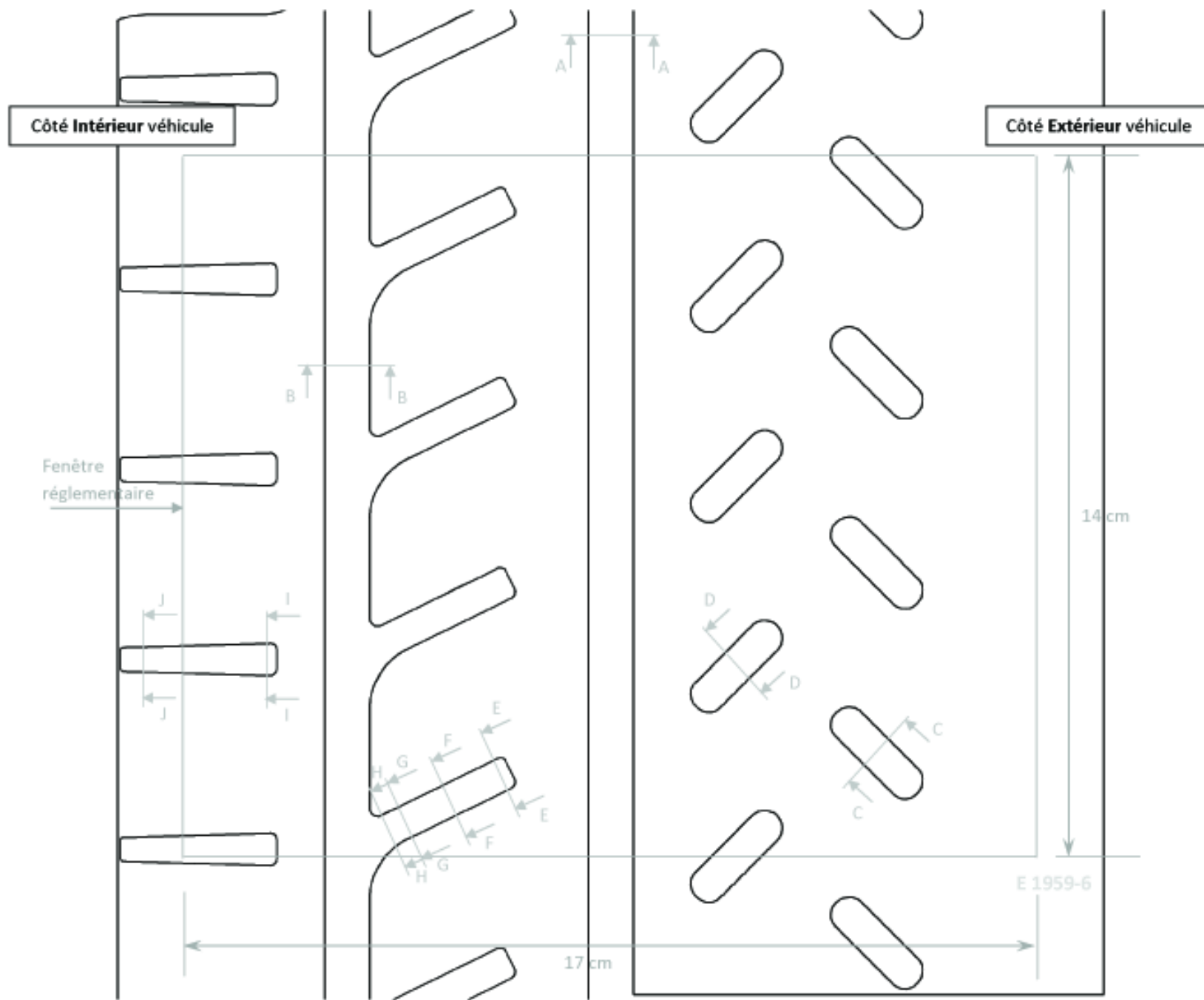


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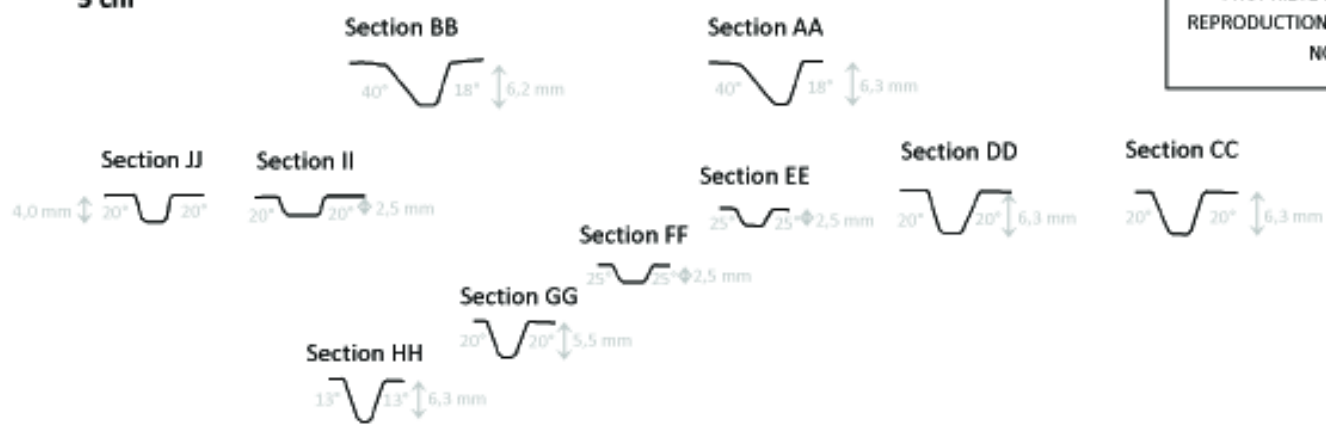
Domaine : Rallye Asphalte
Dimension : 20 / 65 – 18
Plan de la sculpture : Pilot Sport R
Entaillement Surfamique dans fenêtre réglementaire : 21,51 %

Clermont-Ferrand le 05/12/2013



Echelle 1:1
 5 cm

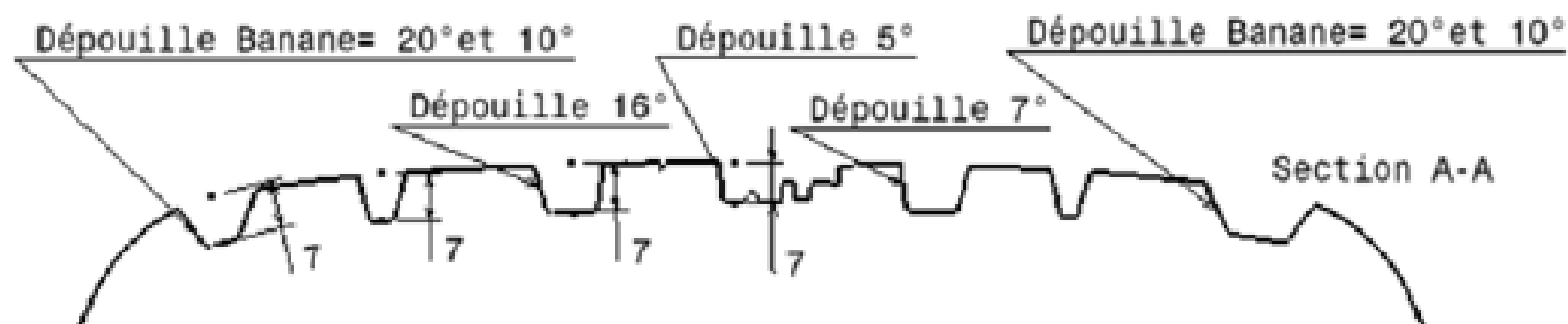
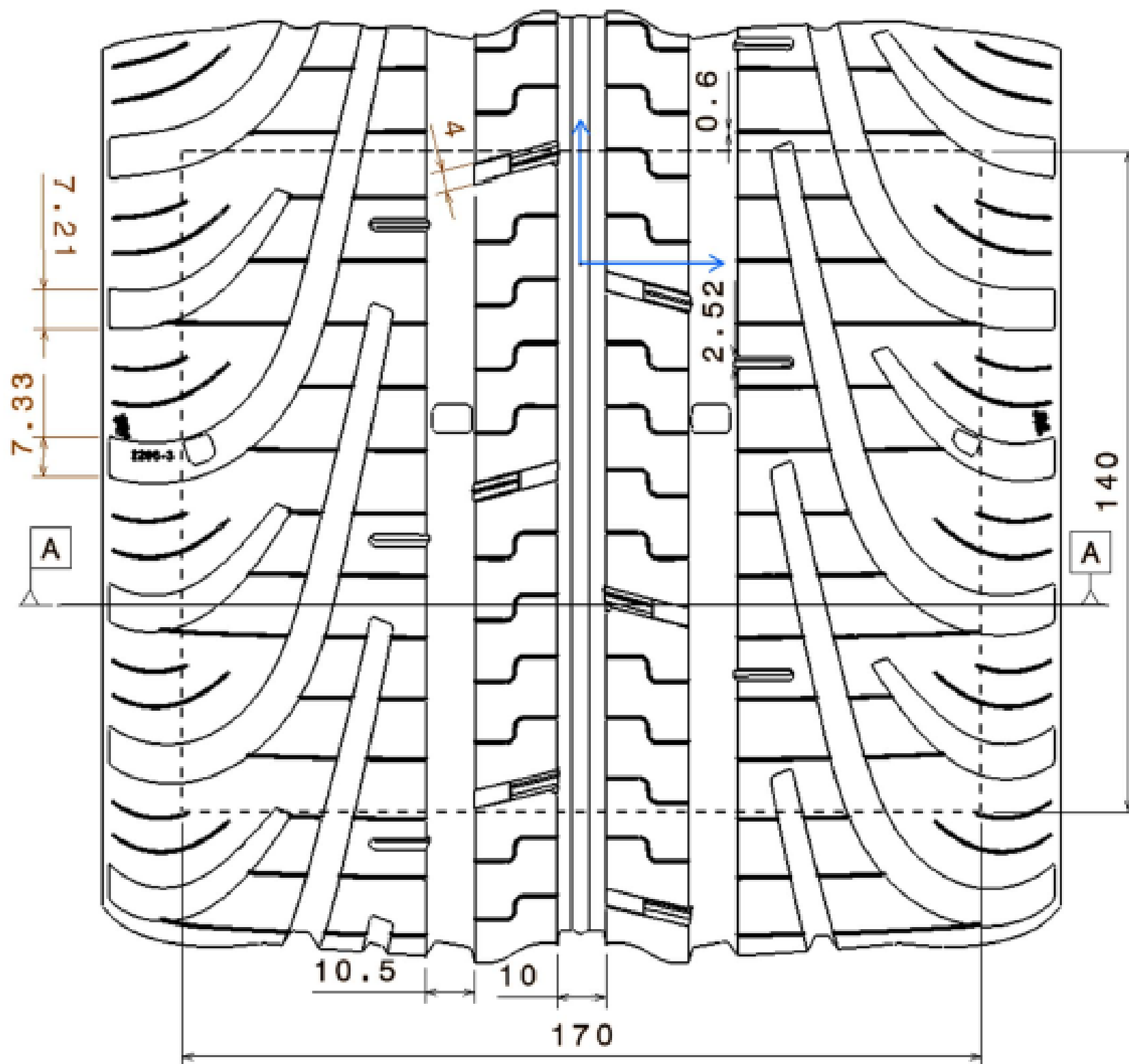
MANUFACTURE FRANCAISE DES PNEUMATIQUES
 MICHELIN CLERMONT-FERRAND
 PROPRIETE EXCLUSIVE DE NOTRE SOCIETE
 REPRODUCTION OU UTILISATION INTERDITE SANS
 NOTRE ACCORD ECRIT





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%

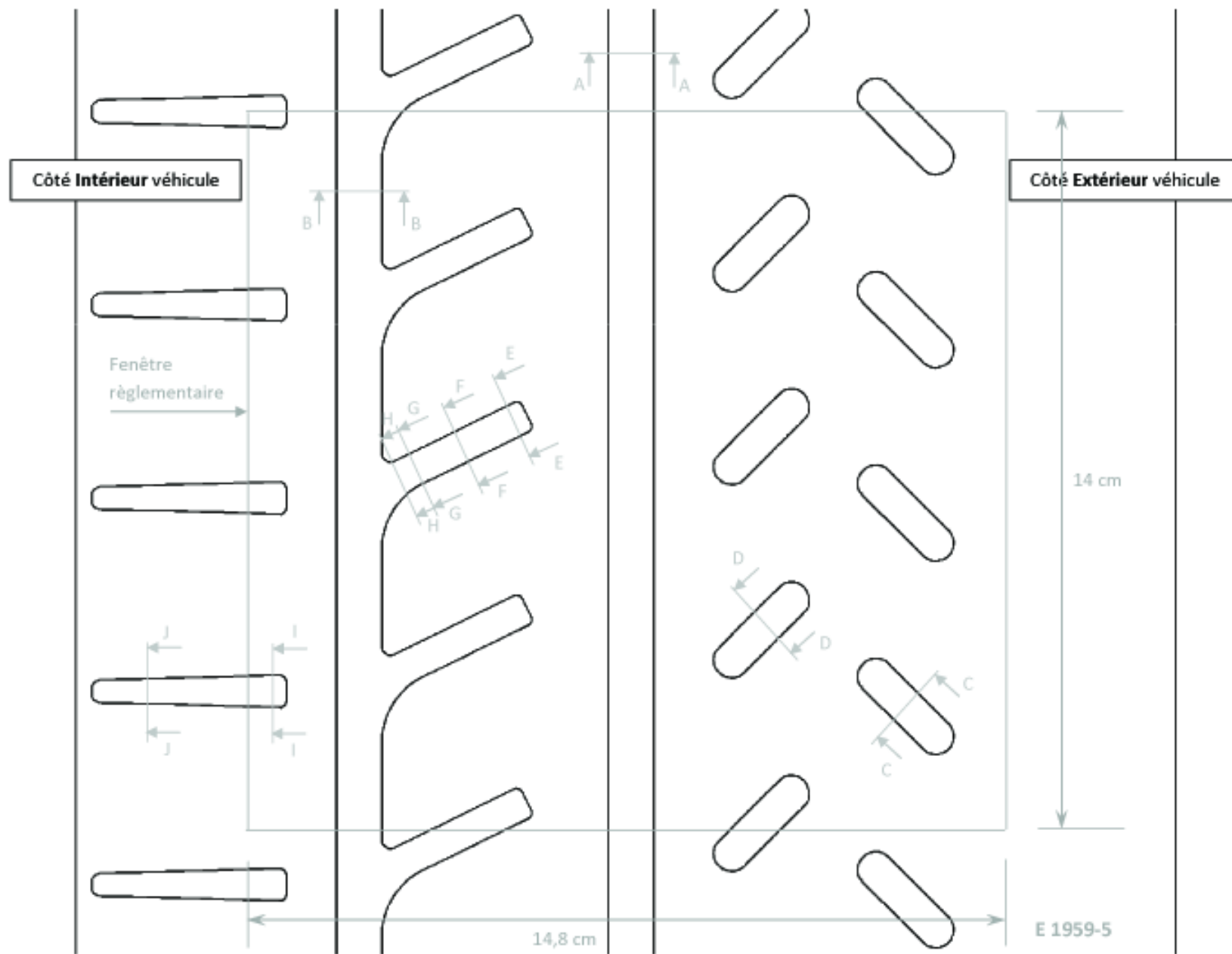
MANUFACTURE FRANCAISE DES PNEUMATIQUES
MICHELIN CLERMONT-FERRAND
PROPRIETE EXCLUSIVE DE NOTRE SOCIETE
REPRODUCTION OU UTILISATION INTERDITE SANS
NOTRE ACCORD ECRIT



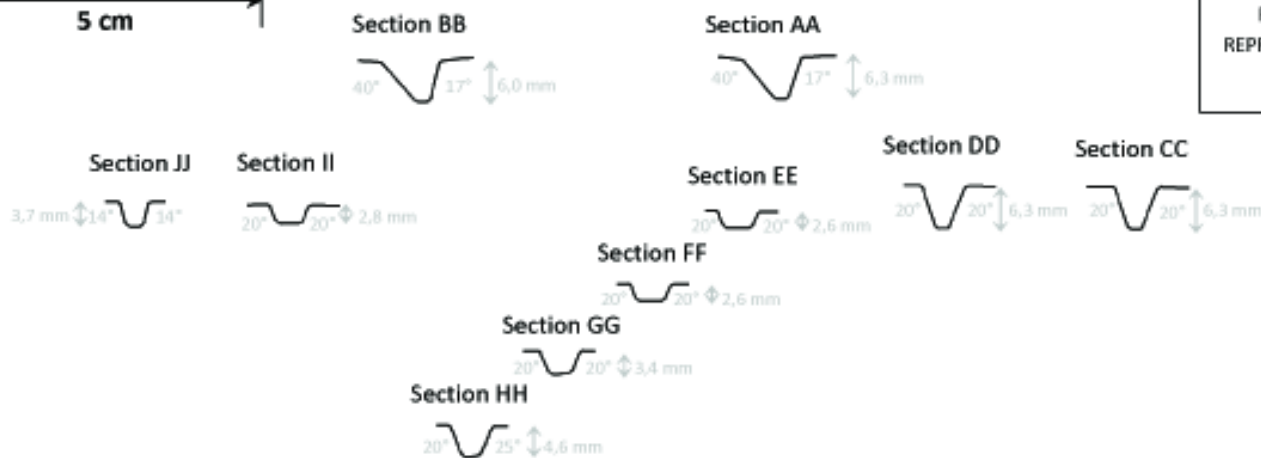


Domaine : Rallye Asphalte
 Dimension : 19 / 63 – 17
 Plan de la sculpture : Pilot Sport R
 Entaillement surfacique sur fenêtre réglementaire : 21,51 %

Clermont-Ferrand le 05/12/2013



Echelle 1:1
 5 cm

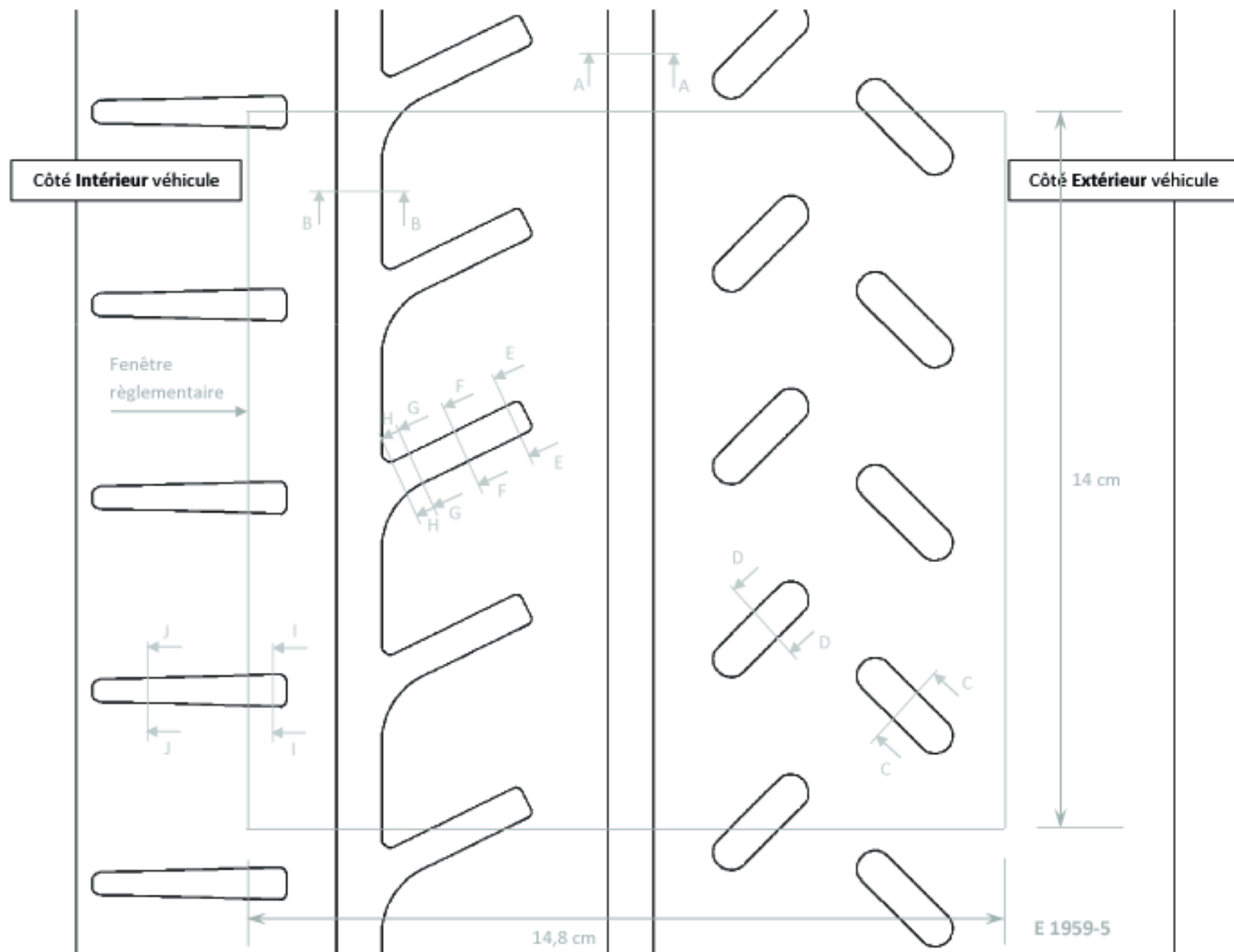


MANUFACTURE FRANCAISE DES PNEUMATIQUES
 MICHELIN CLERMONT-FERRAND
 PROPRIETE EXCLUSIVE DE NOTRE SOCIETE
 REPRODUCTION OU UTILISATION INTERDITE SANS
 NOTRE ACCORD ECRIT

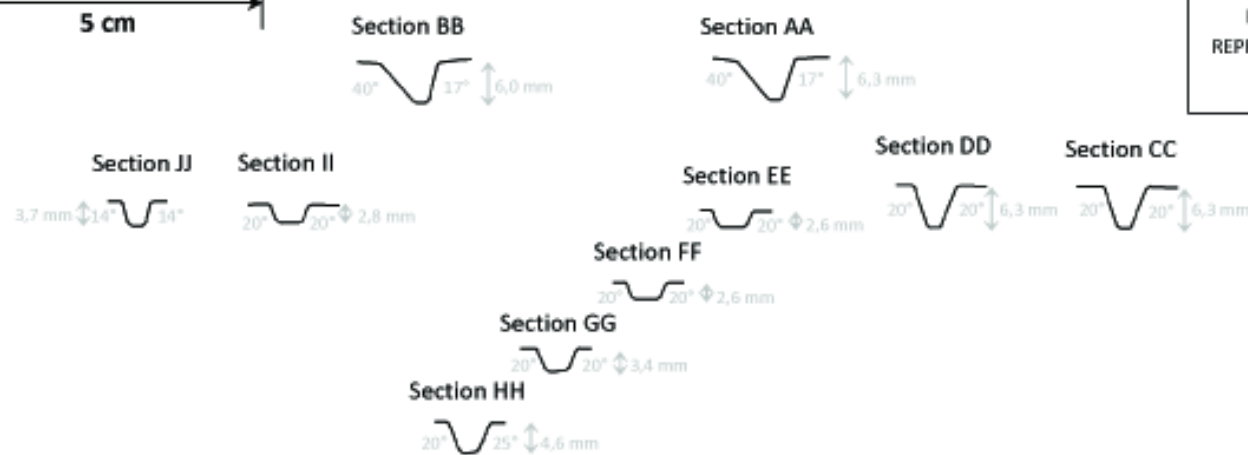


Domaine : Rallye Asphalte
 Dimension : 19 / 60 – 16
 Plan de la sculpture : **Pilot Sport R**
 Entaillement surfacique sur fenêtre réglementaire : **21,51 %**

Clermont-Ferrand le 05/12/2013



Echelle 1:1
5 cm

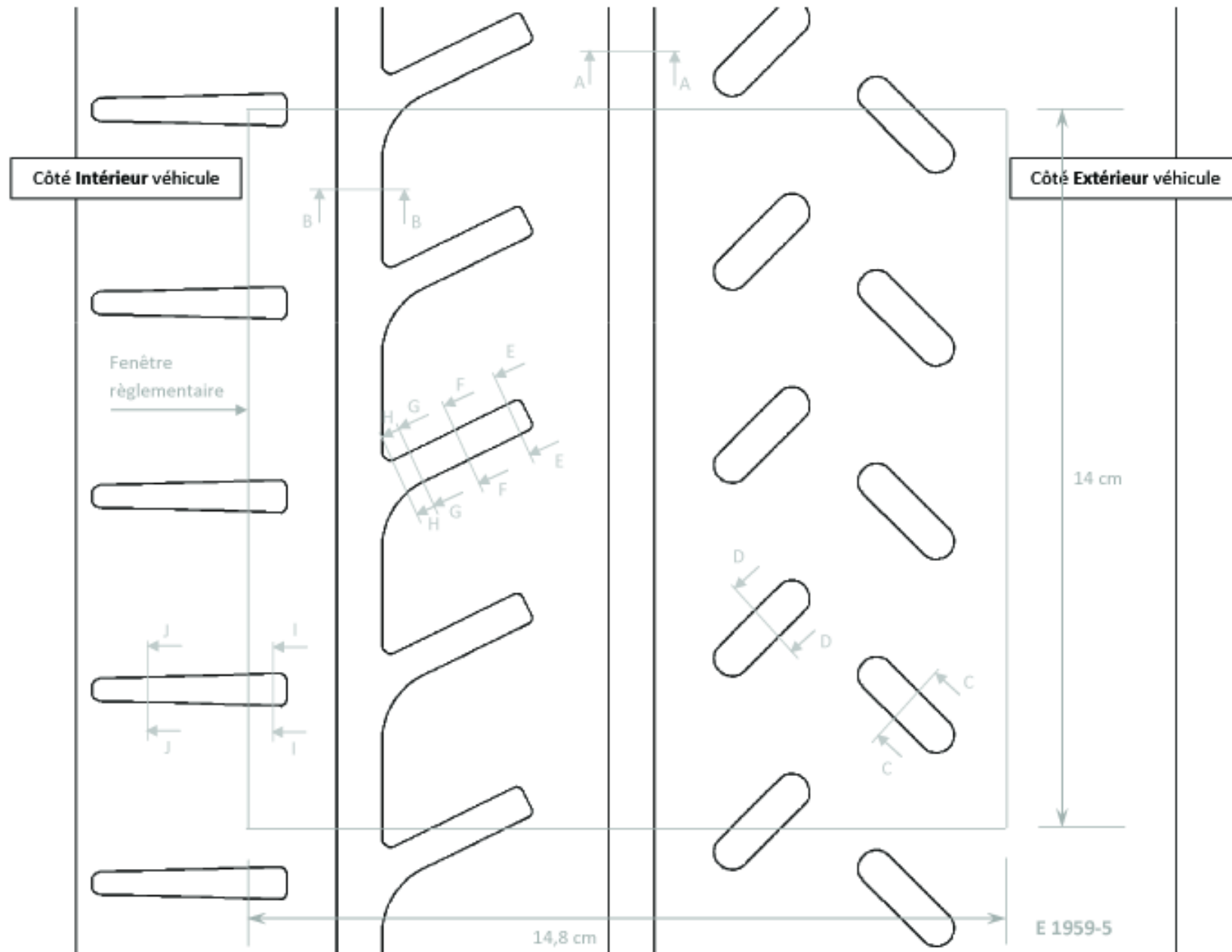


MANUFACTURE FRANCAISE DES PNEUMATIQUES
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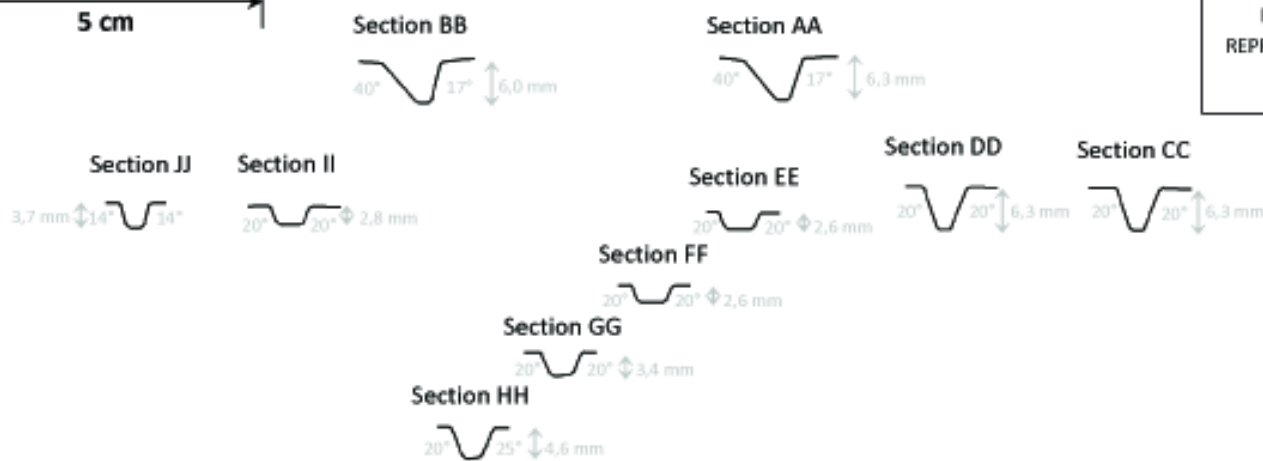


Domaine : Rallye Asphalte
 Dimension : **19 / 58 – 15**
 Plan de la sculpture : **Pilot Sport R**
 Entaillement surfacique sur fenêtre réglementaire : **21,51 %**

Clermont-Ferrand le 05/12/2013



Echelle 1:1
 5 cm

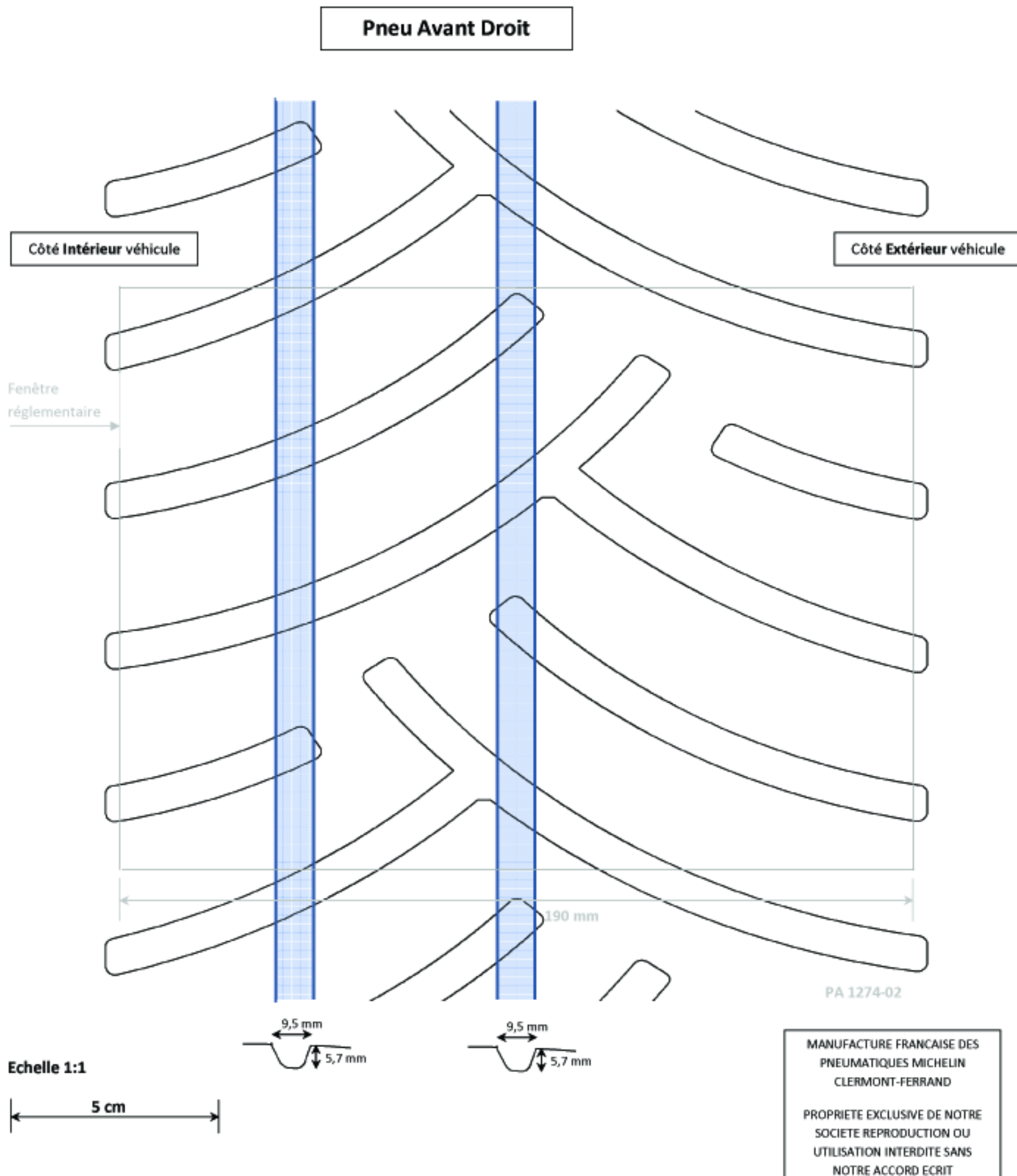


MANUFACTURE FRANCAISE DES PNEUMATIQUES
 MICHELIN CLERMONT-FERRAND
 PROPRIETE EXCLUSIVE DE NOTRE SOCIETE
 REPRODUCTION OU UTILISATION INTERDITE SANS
 NOTRE ACCORD ECRIT



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



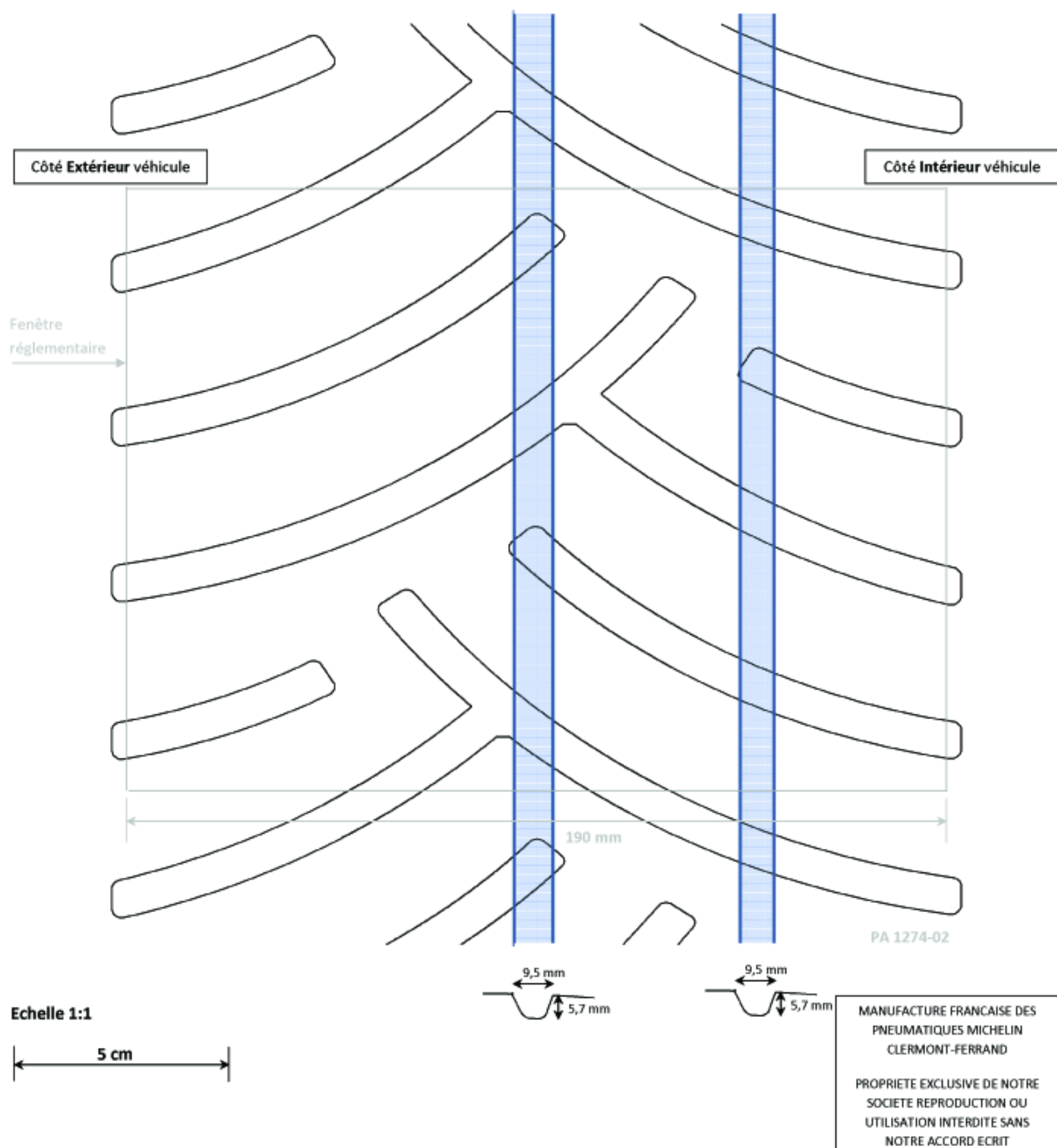
Circonférential groves are hand-cutted.



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

Clermont-Ferrand le 18/12/2013

Pneu Avant Gauche

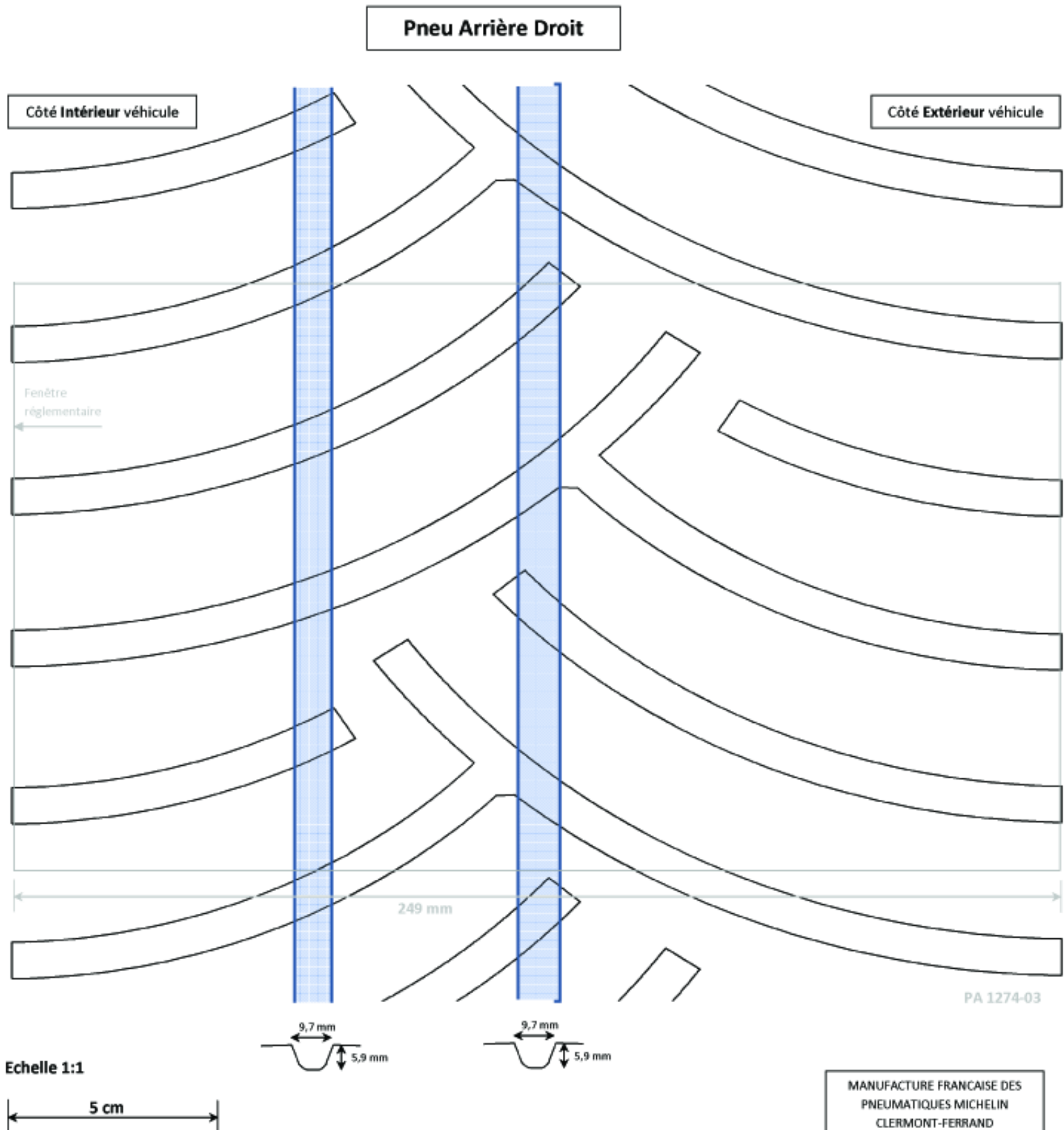


Circonférentielles sont manuellement coupées.



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

Clermont-Ferrand le 18/12/2013

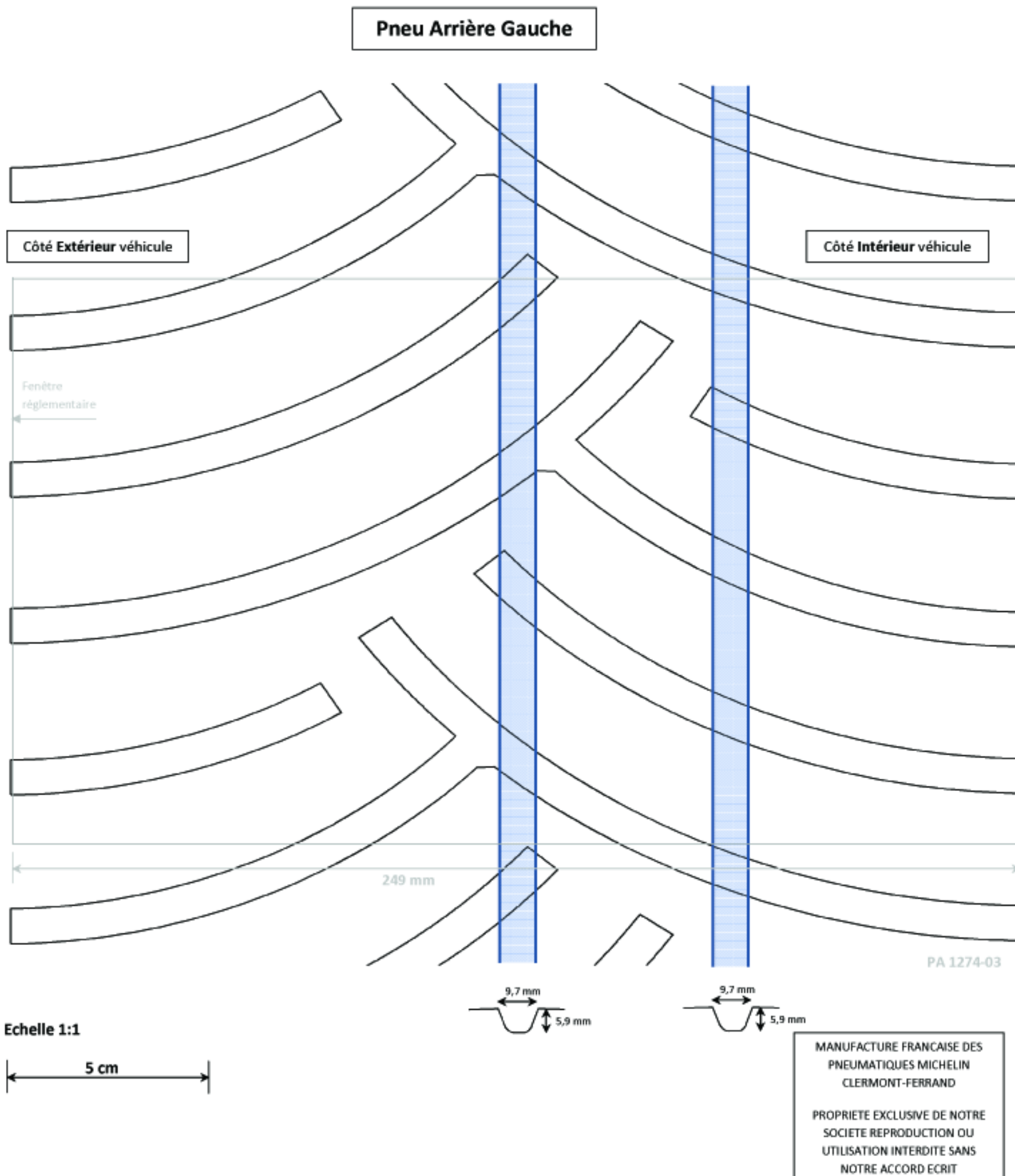


Circonférential grooves are hand-cutted.

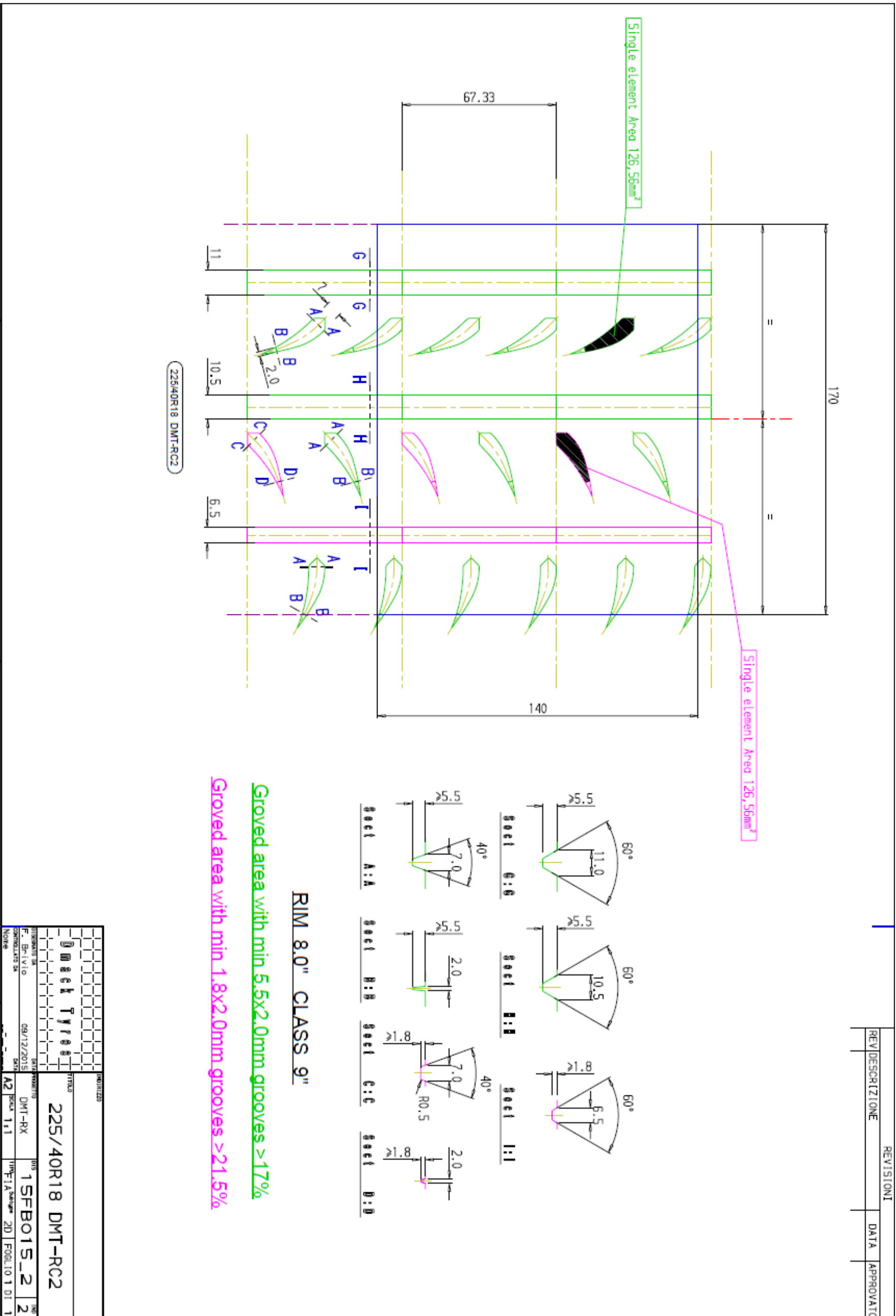


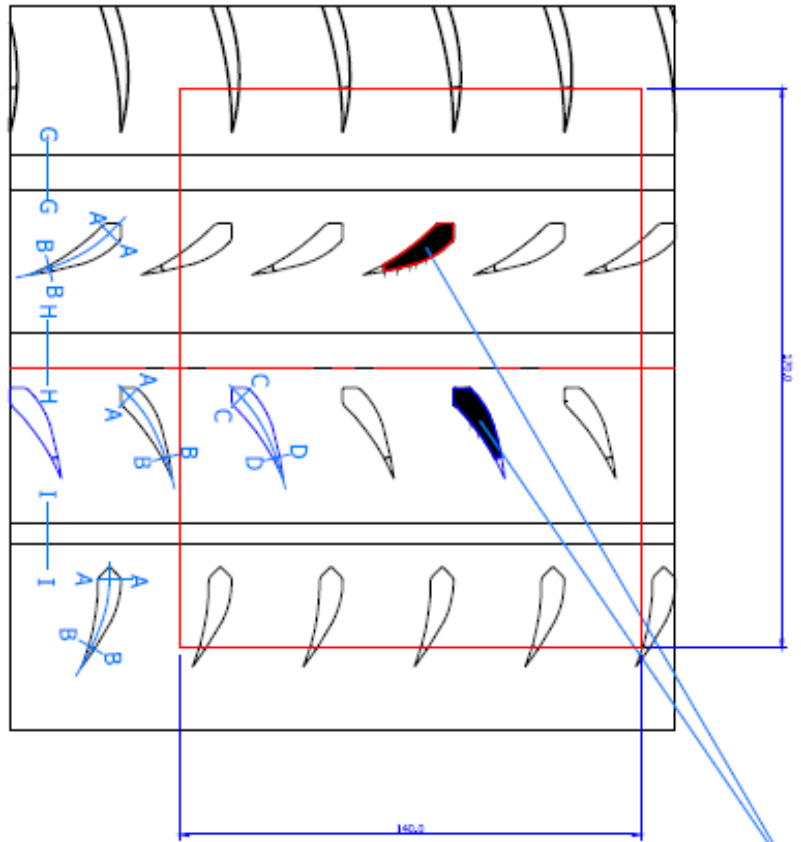
Domaine : **Rallye Asphalte**
Dimension : **29 / 65 – 18**
Entaillement surfacique sur fenêtre de 249 mm de large : **31 %**

Clermont-Ferrand le 18/12/2013

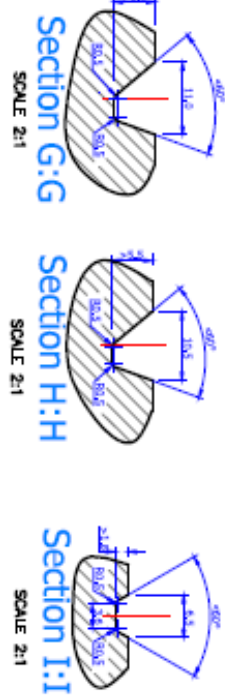
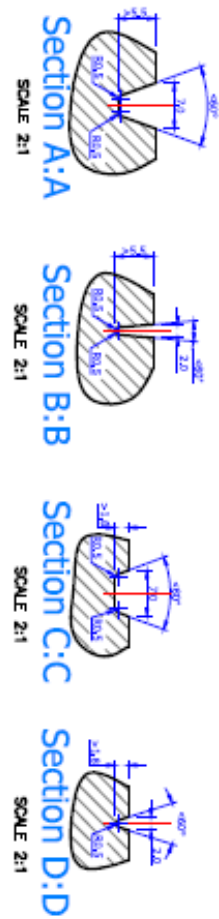


Circonfential groves are hand-cutted.





Single element area 125.56mm²



RIM 8.0" Class 9"

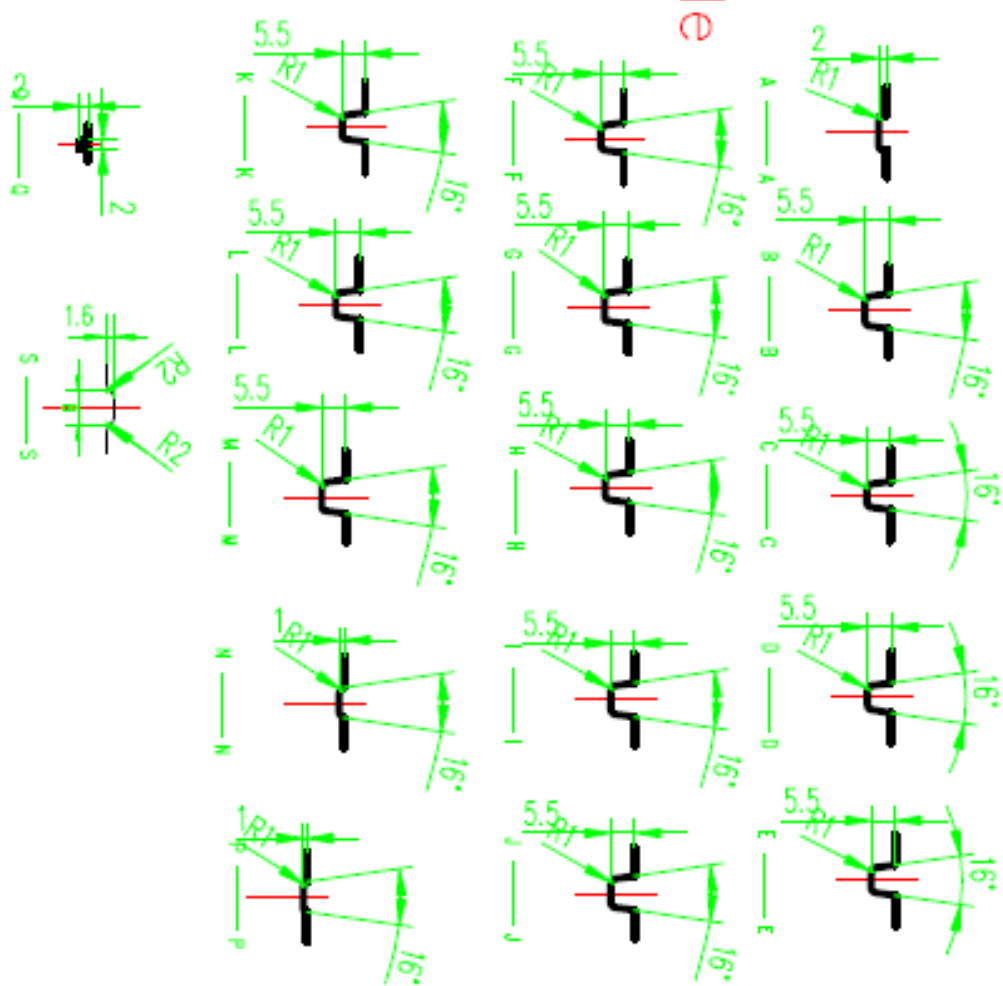
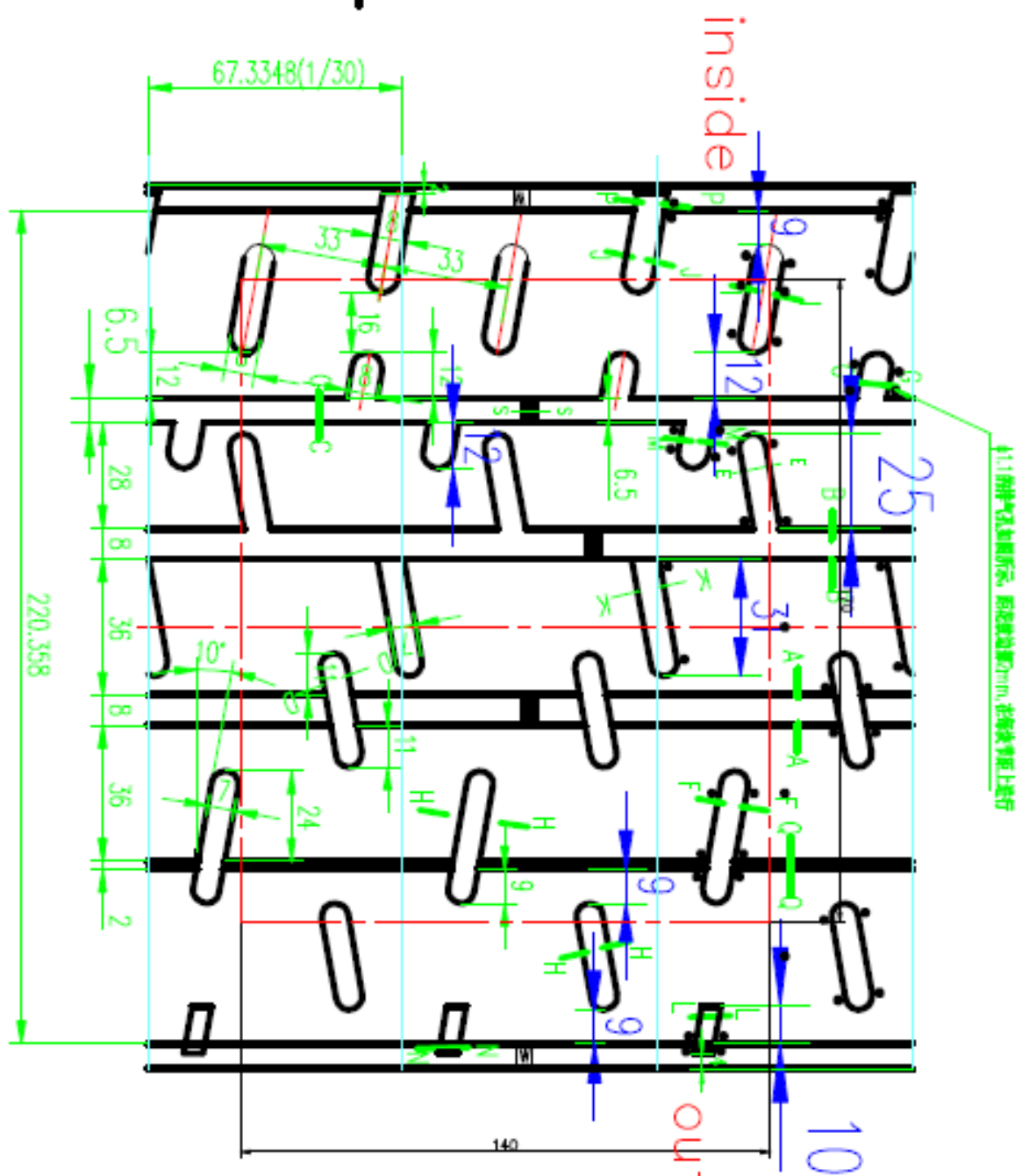
GROOVED AREA WITH MIN. 1.8x2.0mm GROOVES >21.5%

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

DRAWING REFERENCES		APPROVAL		DIMENSIONS	
				MM	225/40 R18 DMT RC22 - FIA Homologation table
				MATERIAL	DMACK TYRES - ENGLAND.
<p><small>This drawing is the property of DMACK Tyres. It is not to be used for any other purpose without the written consent of DMACK Tyres. The design and dimensions are subject to change without notice.</small></p>					
ISSUE	1	MODIFICATION		DATE	11. 21. 21
				SIGN	
				SCALE	1:1, 2:1, 3:1
				DRAWN	02/22/2016
				BY	F. S.M.10
					16FB037

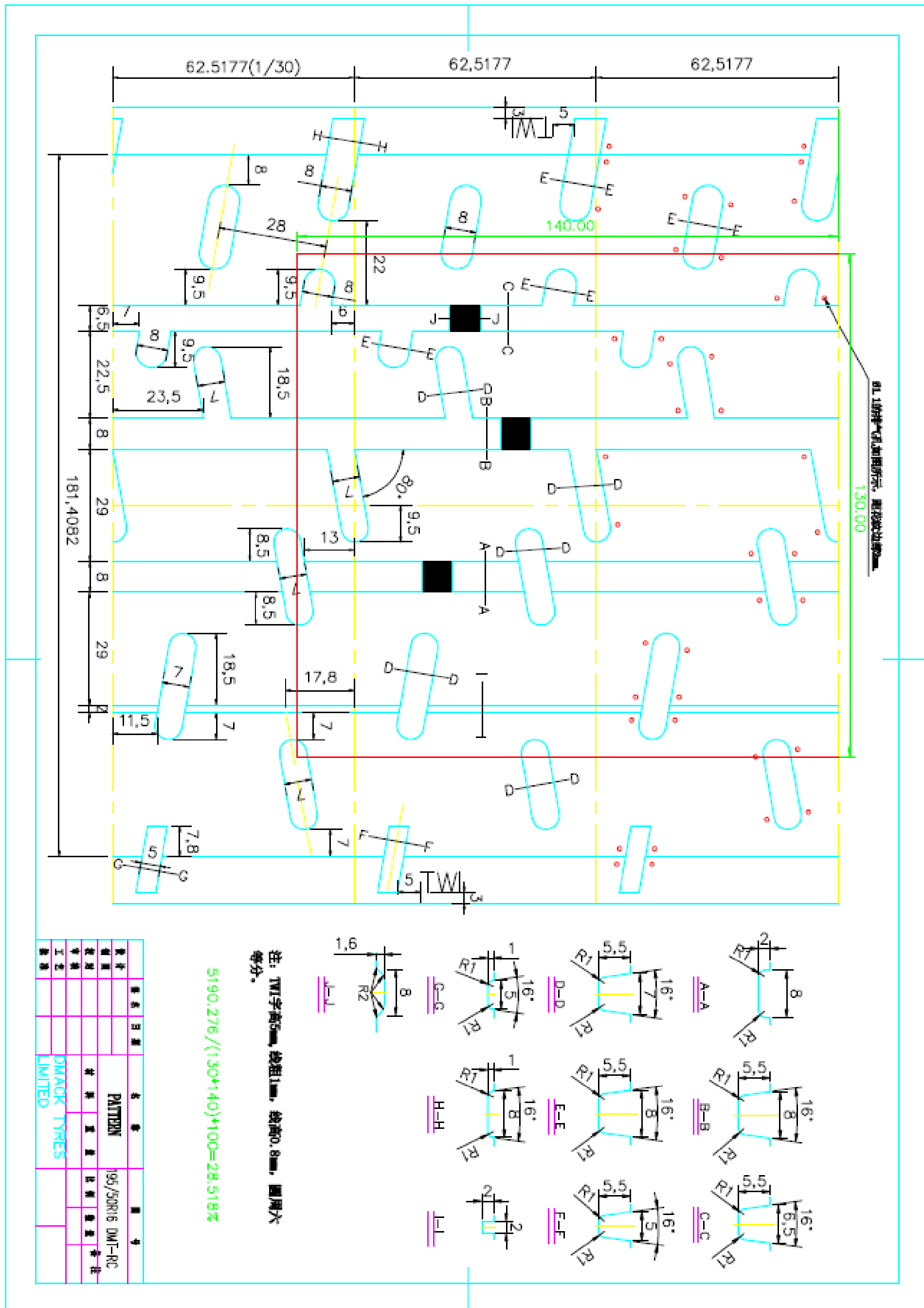
17" – 225/45-17

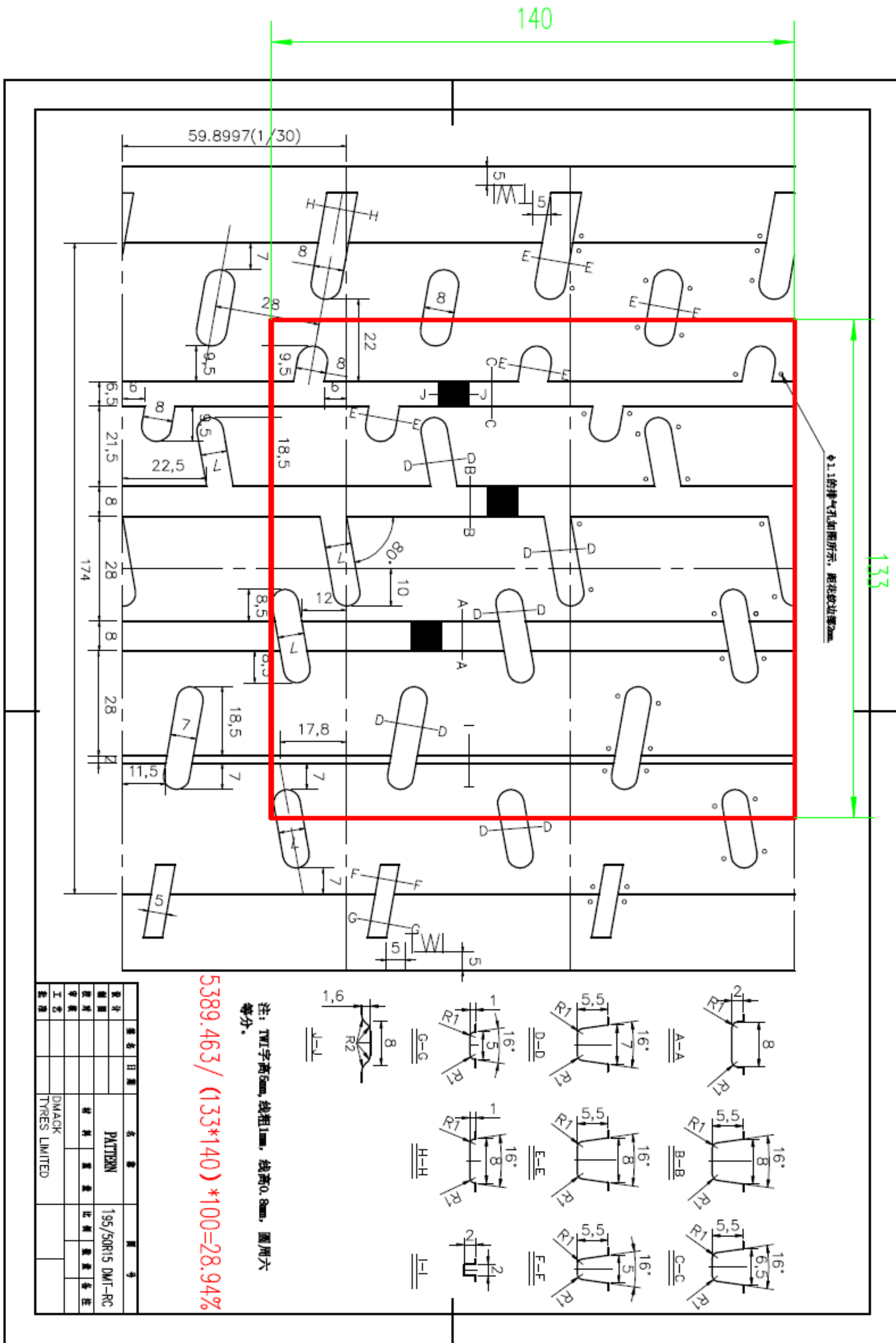
GROOVES SURFACE AREA=5707.86 m²
 CONTROL SURFACE =23800 m²
 5707.86/23800=23.983%



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

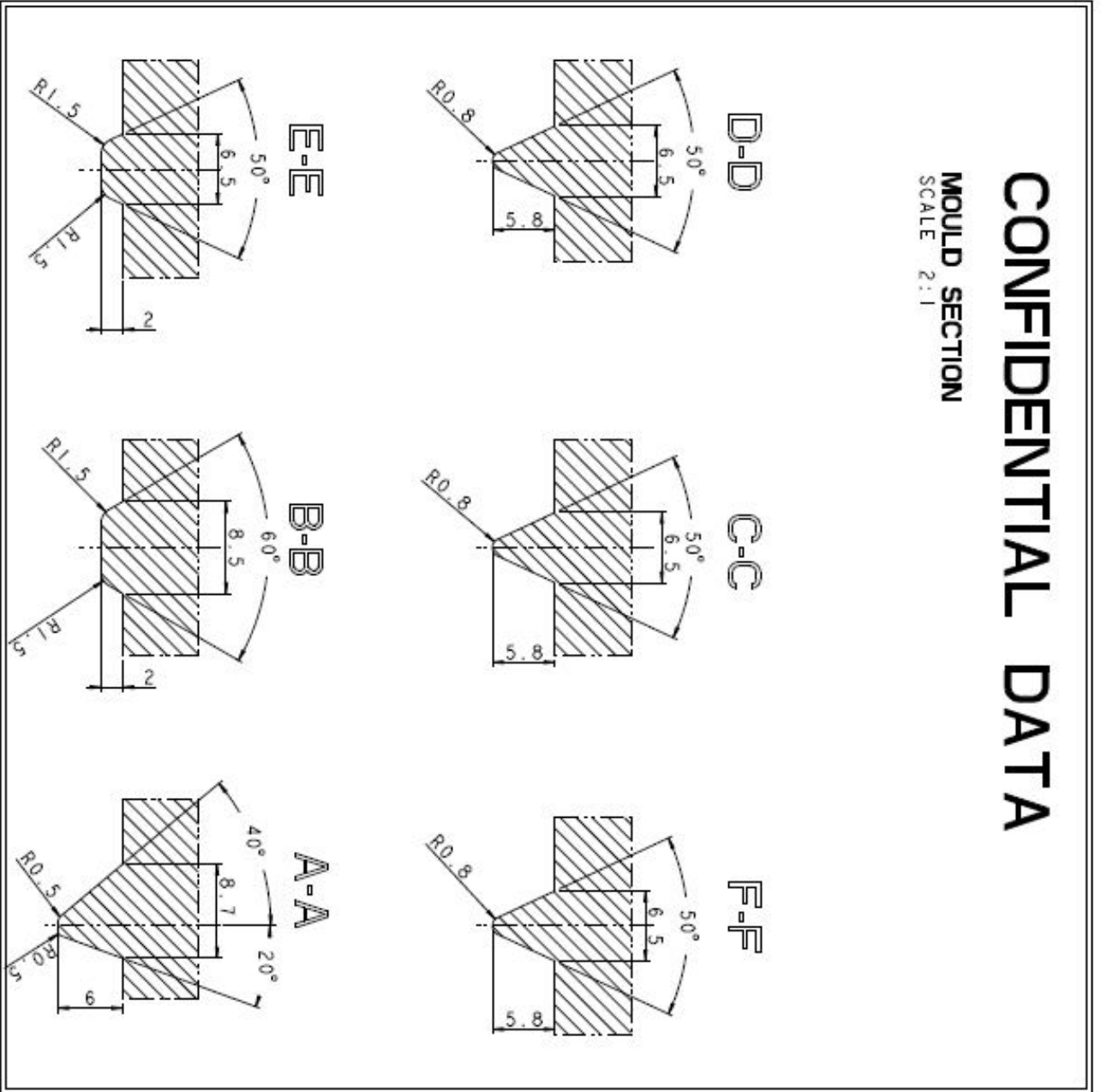
16" – 195/50-16





CONFIDENTIAL DATA

MOULD SECTION
SCALE 2:1



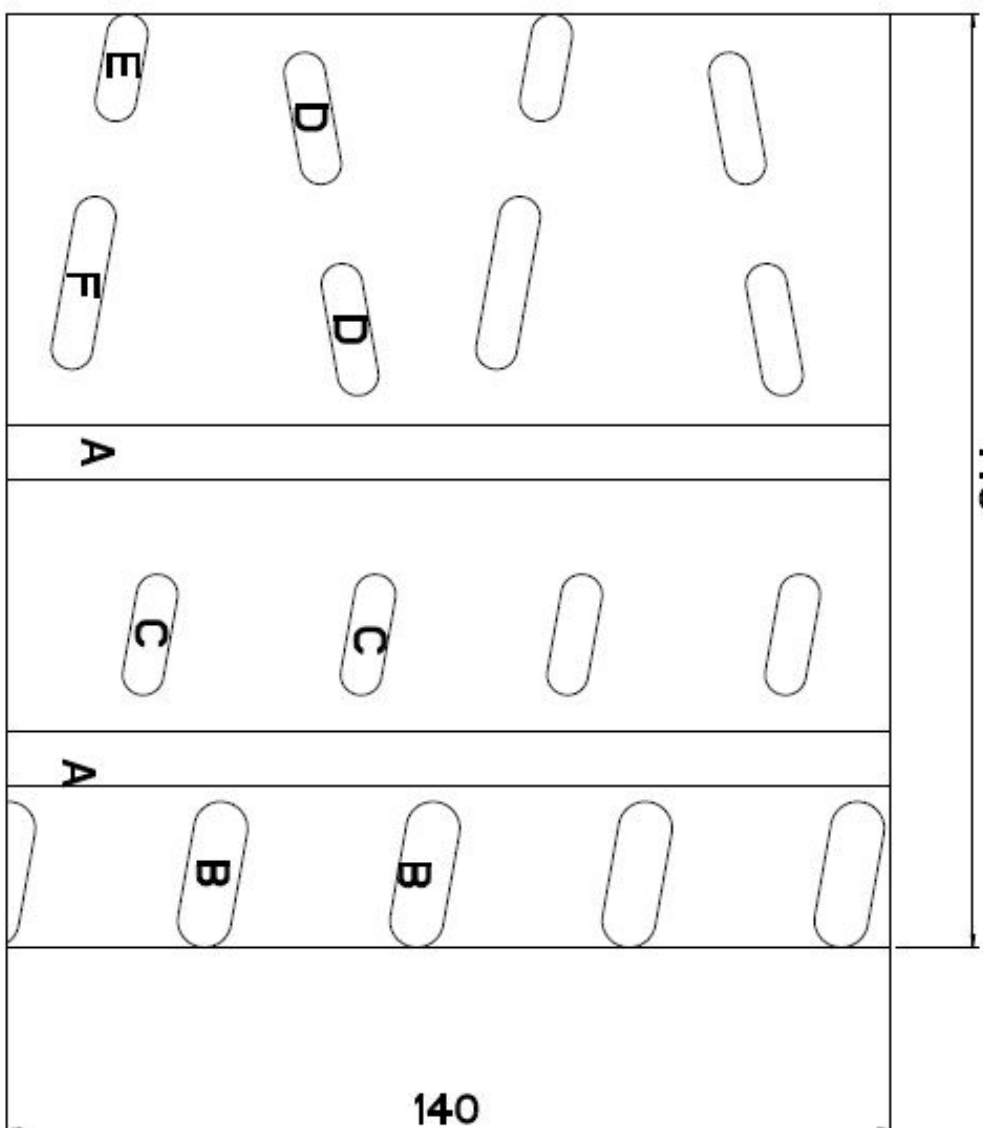
SUP. EMPTY DEPTH > 5.5 > 17%
 SUP. EMPTY DEPTH > 1.8 > 21.5%
 The sum of the width of the grooves encountered by a radial line is > 16mm
 The total width of circumferential lines is > 12mm

148

AREA
SCALE 1:1

140

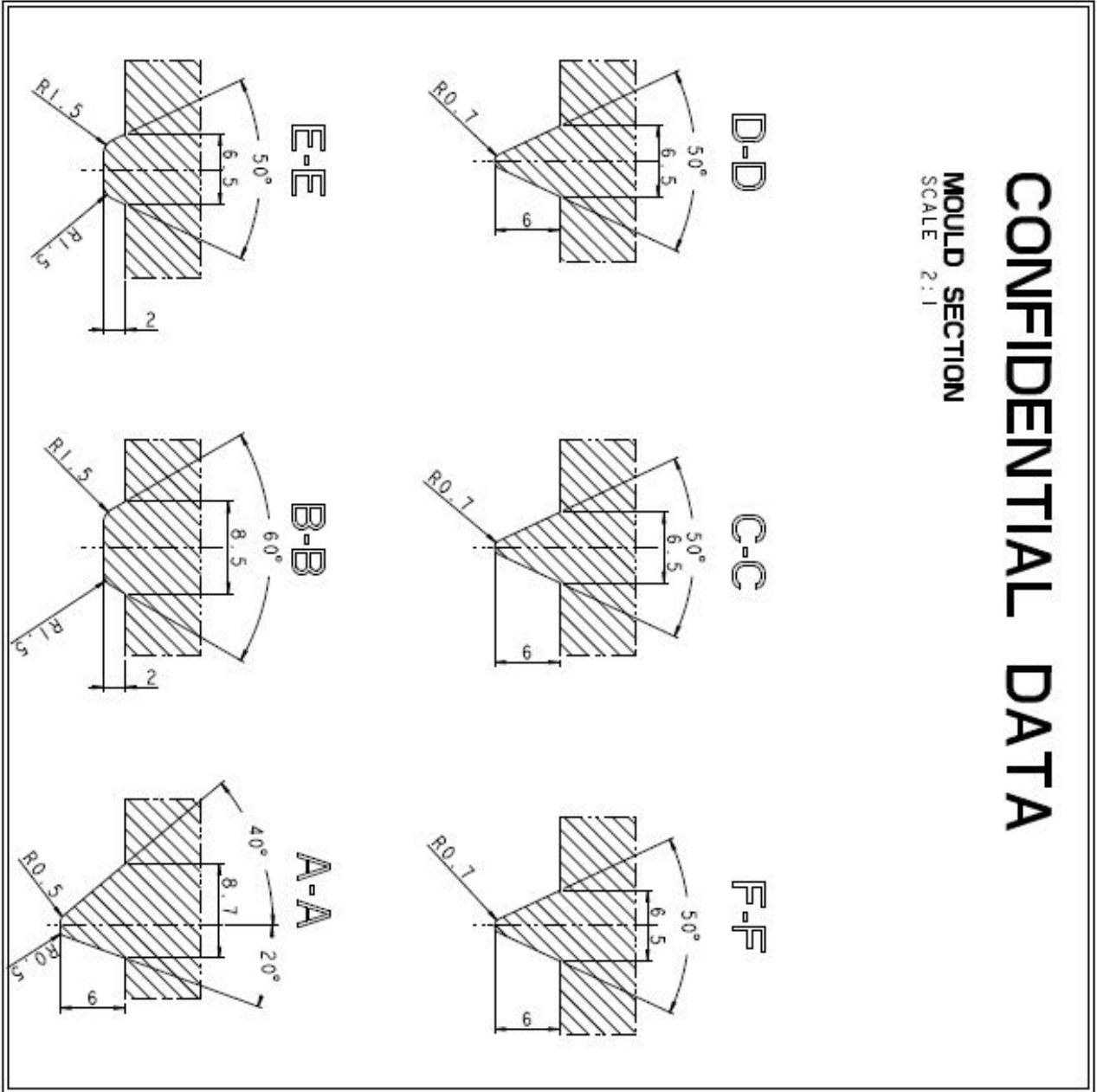
CLASS 8"
RIM 7"



4									
3									
2									
1									
N	PITCH	MATERIAL	TREATMENT	MODIFICATION					
GENERAL WORKING TOLERANCE DIN 3581-45 □ LOW □ MEDIUM □ HIGH		Project 5575	Manufacturer PV	CONFIDENTIAL PROJECT - The reproduction of all or any part of this drawing and the content herein is strictly prohibited without the permission of Pirelli Tyre S.p.A.	Scale 1:1	Model PV	DATE 19/03/2014	Sign PE - MG	Check MAZZOCCHI
Drawing description Size 205/45-17 RK Tread 1838 LAND & SEA					Pirelli Tyre spa PRO/E				
Drawing file name P_300004_292									

CONFIDENTIAL DATA

MOULD SECTION
SCALE 2:1



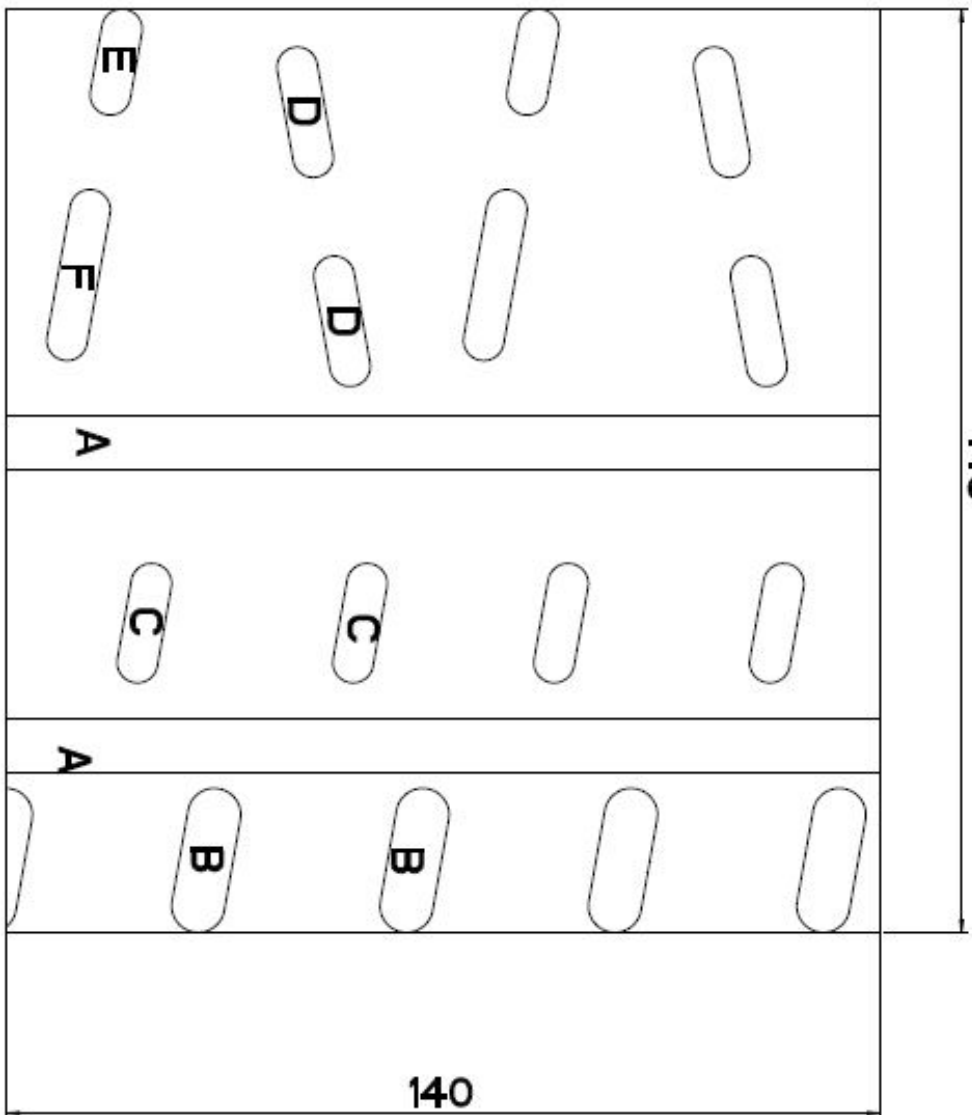
SUP. EMPTY DEPTH > 5.5 > 17%
 SUP. EMPTY DEPTH > 1.8 > 21.5%
 The sum of the width of the grooves encountered by a radial line is > 16mm
 The total width of circumferential lines is > 12mm

148

AREA
SCALE 1:1

140

CLASS 8"
RIM 7"

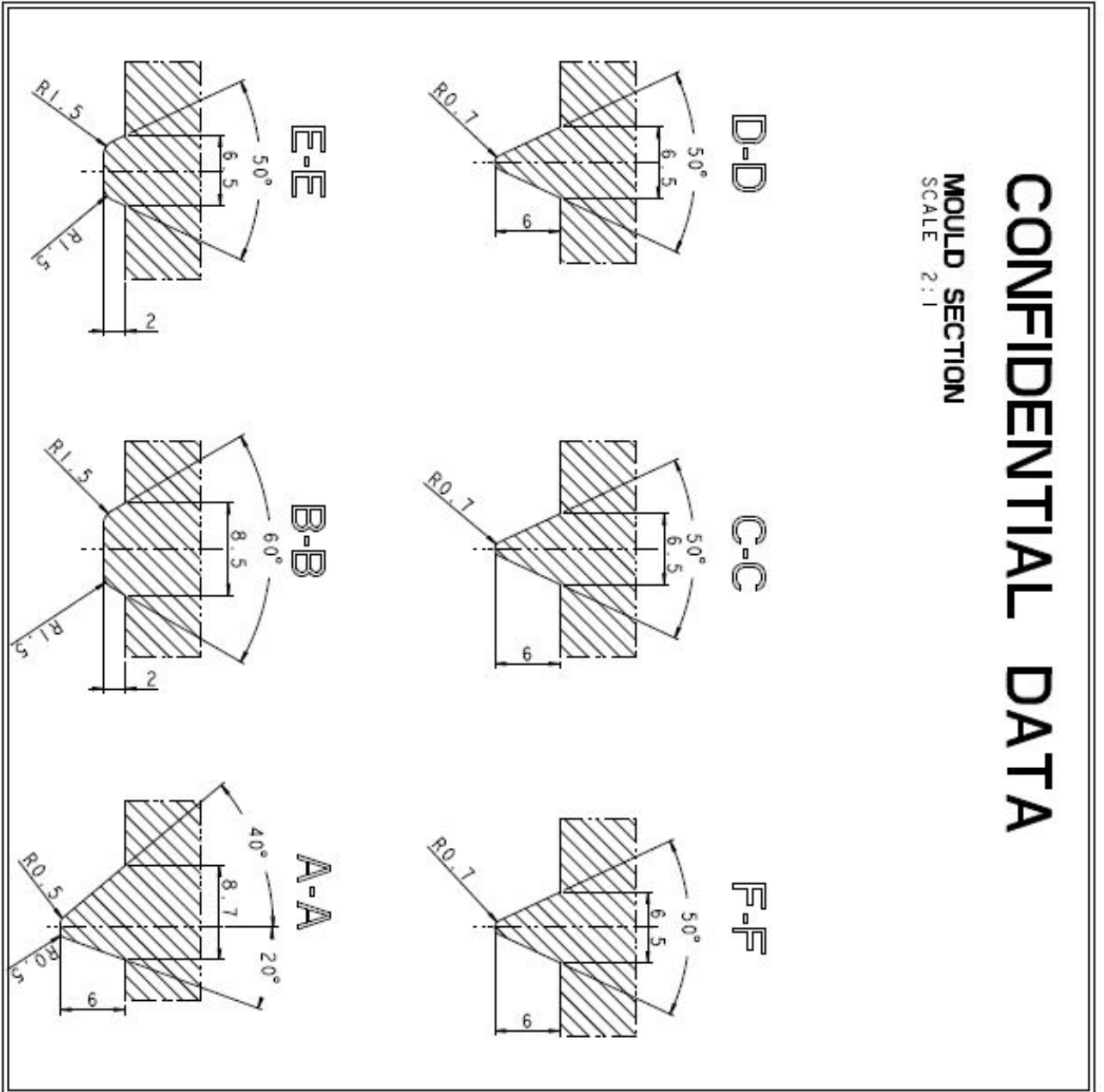


4								
3								
2								
1								
N	PITCH	MATERIAL	TREATMENT	MODIFICATION	DATE	SIGNATURE		
GENERAL WORKING TOLERANCE INT 3507-49				Project	Group/Center	CONFIDENTIAL PROPERTY: The reproduction of all or any part of this drawing and the communication to a third party of this project is forbidden. The use of any plan, drawing or calculation which originates from this project, can be allowed only with the permission of: Pirelli Tyre S.p.A.		
	Q LOW	Scale	Model	PV	LIST	Date	Sign	PE - MG
	Q MEDIUM	1:1				19/03/2014		MAZZOCCHI
	Q HIGH							PRO/E
Drawing Description				Size 195/50-16 RK Tread 1838A		W. Drawing/Title Name		
				LAND & SEA		P_300004_291		

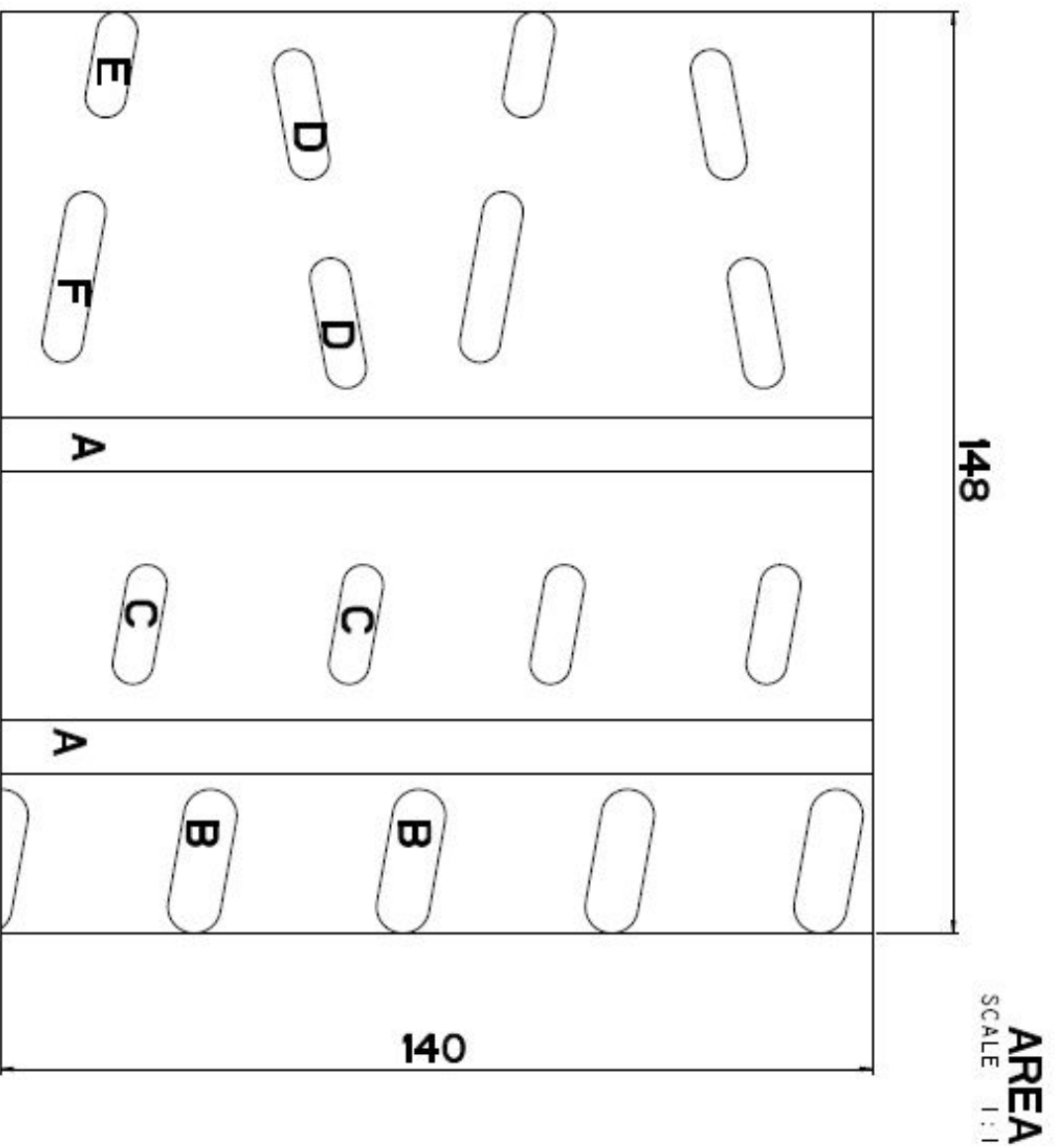
15" - 195/50-15

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



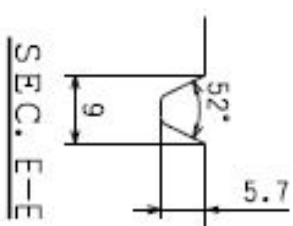
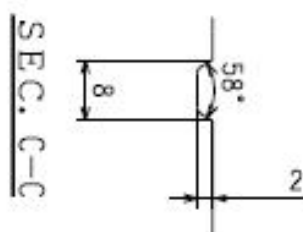
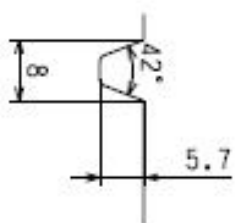
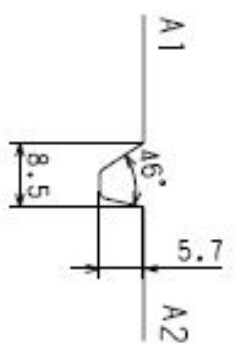
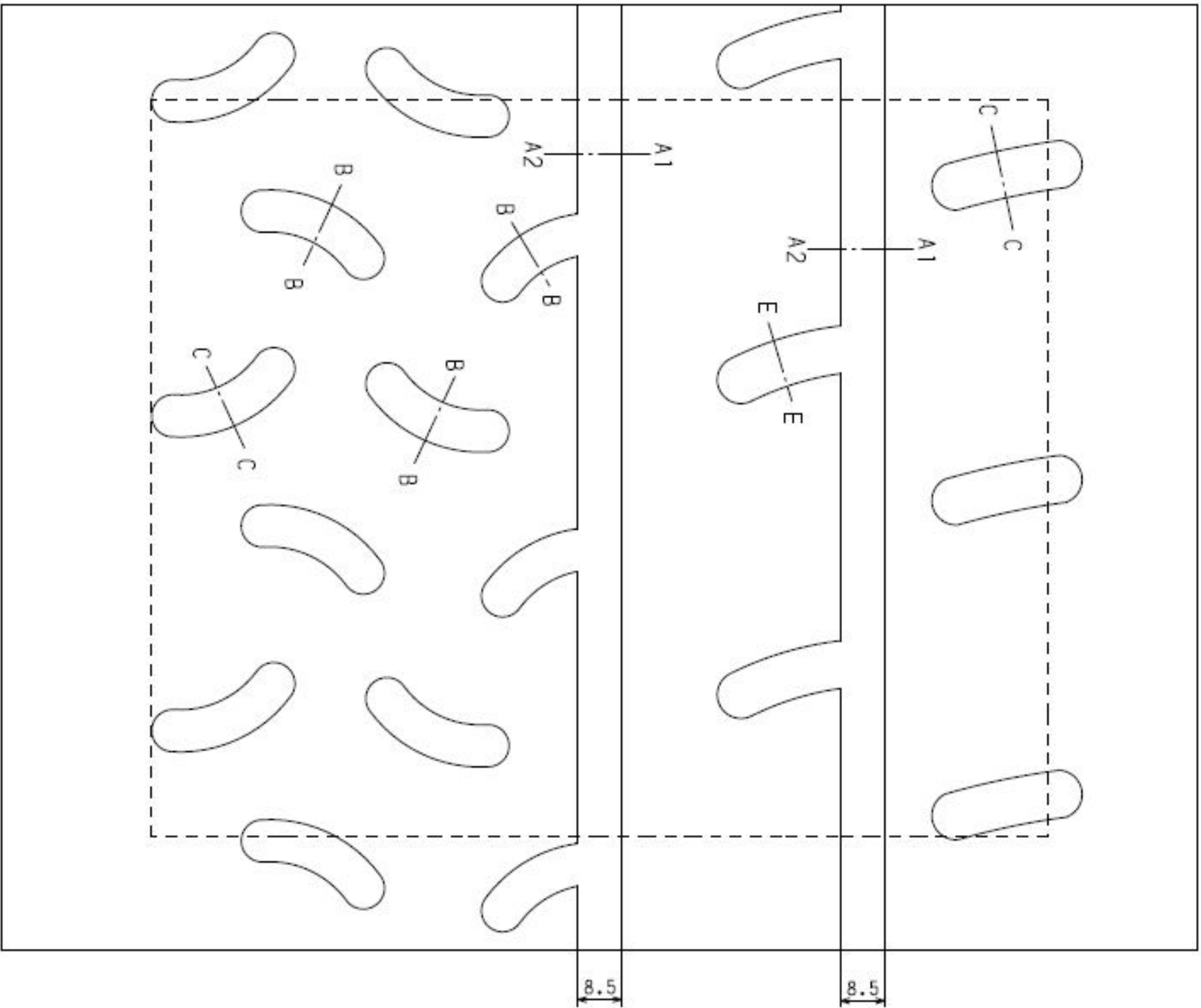
CLASS 8"
RIM 7"

148

AREA
SCALE 1:1

4									
3									
2									
1									
N									
M									
N° PITCH		Material	Treatment	Modification		Date	Sign		
GENERAL WORKING TOLERANCE		Project	Group/center	CONFIDENTIAL PROPERTY: The reproduction of all or any part of this drawing and the compilation to a third party of this project is prohibited. The use of any plan, drawing or calculation without written permission from the author is prohibited. The use of any plan, drawing or calculation without written permission from the author is prohibited.		Date		Sign	
AS PER UNI 5391-95		Scale	5575	-		19/03/2014		PE - MG	
□ LOW		1:1						MAZZOCCHI	
□ MEDIUM								PRO/E	
□ HIGH									
Drawing Description		Size	195/50-15 RK	Tread	1838A	Pirelli Tyre spa		P_30004_290	
		LAND & SEA				PIRELLI			

18" – 235/40-18



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

----- Control area 170X140

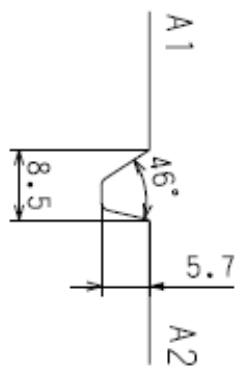
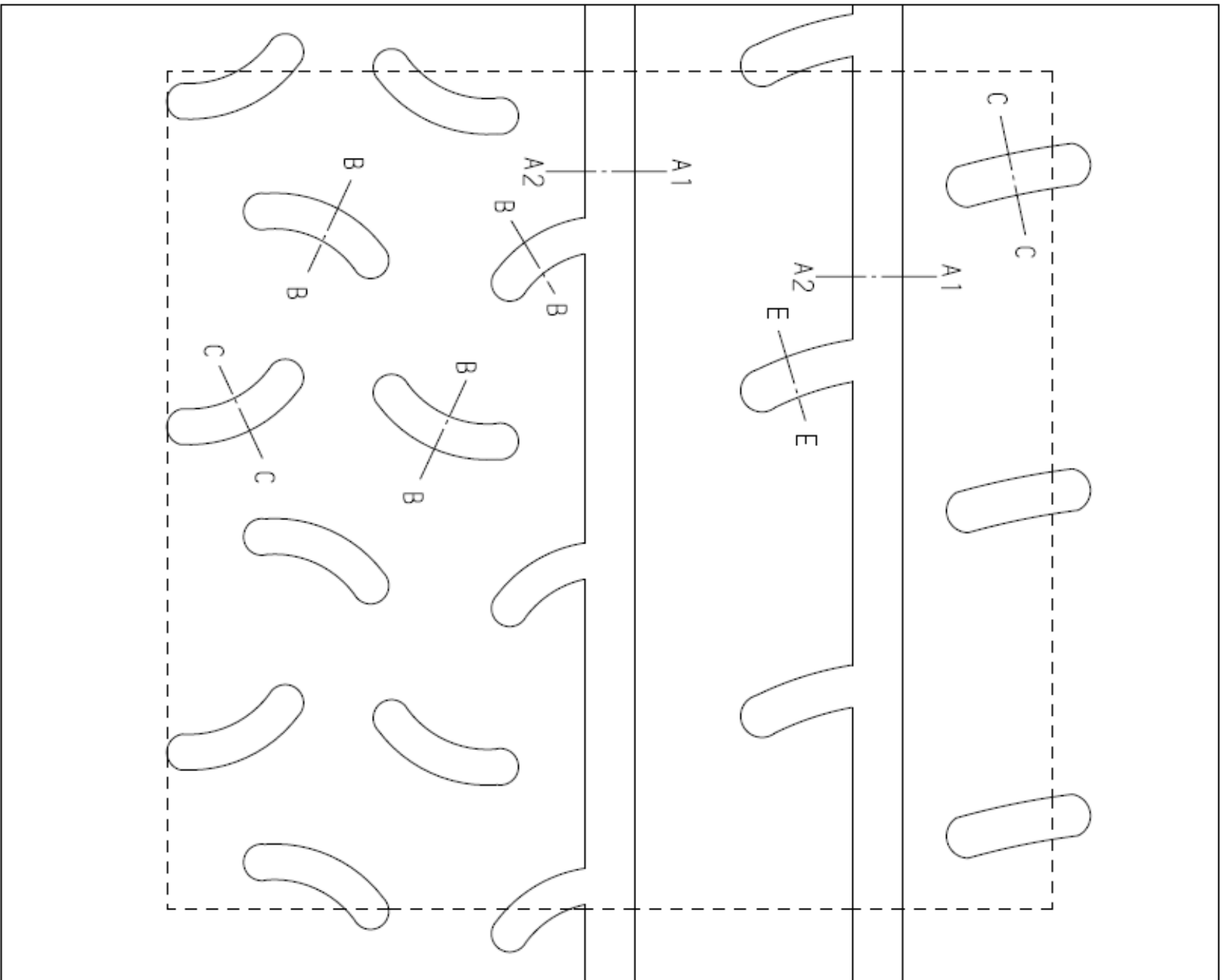
Tyre weight 9.7kg

PRODUCT NAME
YOKOHAMA ADVAN A051T

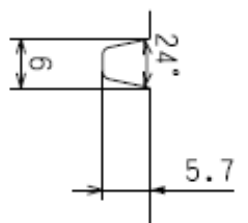
PATTERN NAME
A051A

SIZE 210/650R18

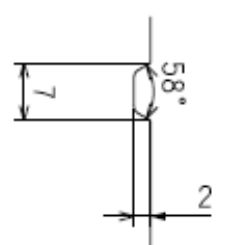
17" – 190/625-17



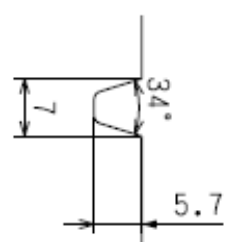
SEC. A1-A2



SEC. B-B



SEC. C-C



SEC. E-E

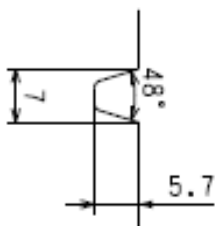
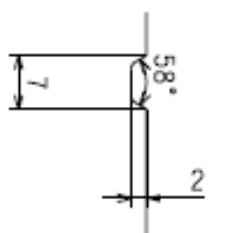
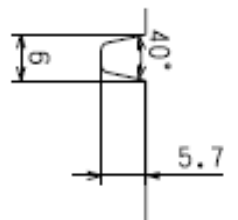
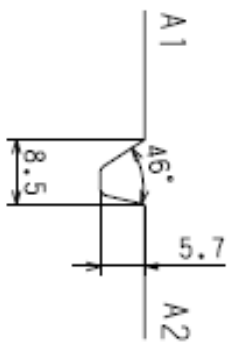
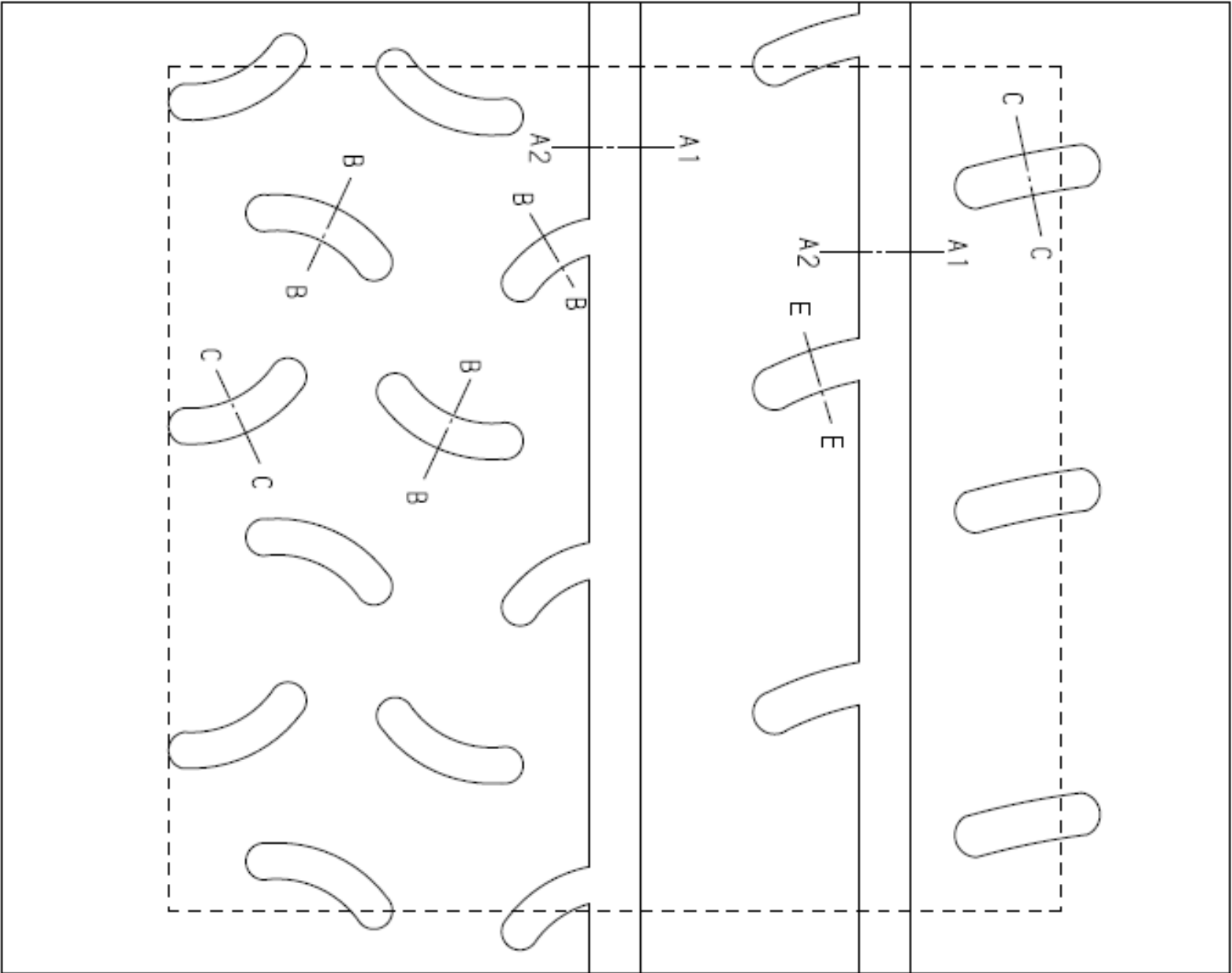
In the control area
 5.5mm grooves-18.2%
 Total grooves-22.0%

----- Control area 148X140

PRODUCT NAME
YOKOHAMA ADVAN A051T

PATTERN NAME
A051A

SIZE 190/625R17



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

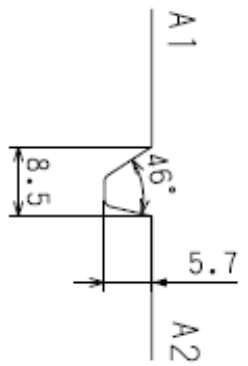
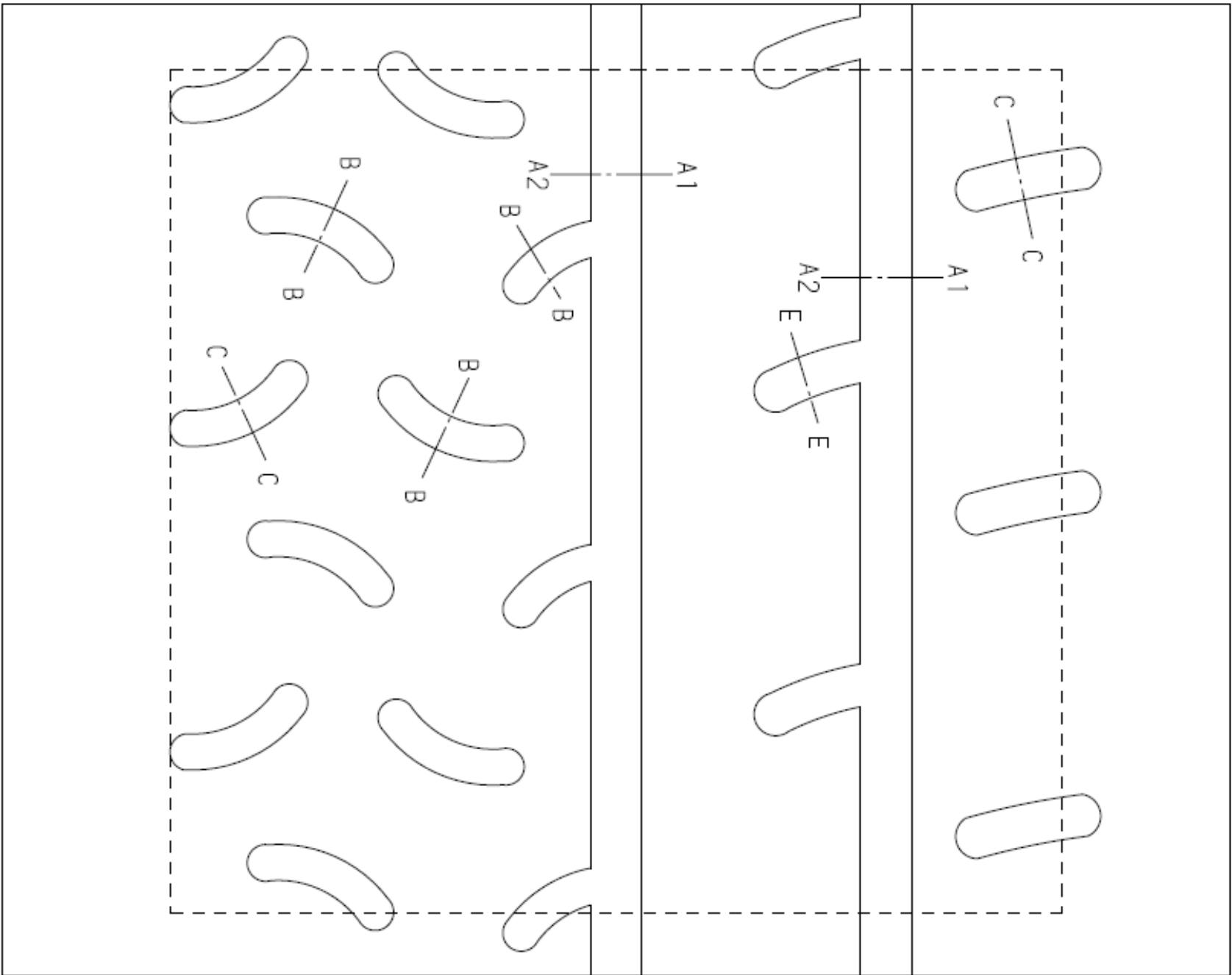
----- Control area 170X140

PRODUCT NAME
YOKOHAMA ADVAN A051T

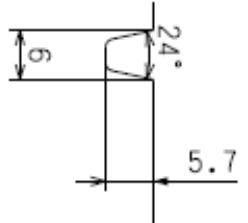
PATTERN NAME
A051A

SIZE 210/625R17

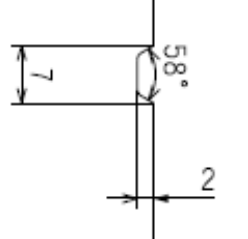
16" – 190/600R16



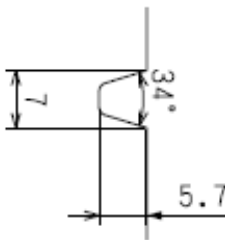
SEC. A1-A2



SEC. B-B



SEC. C-C



SEC. E-E

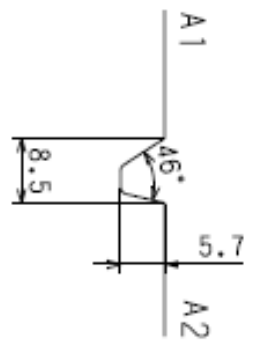
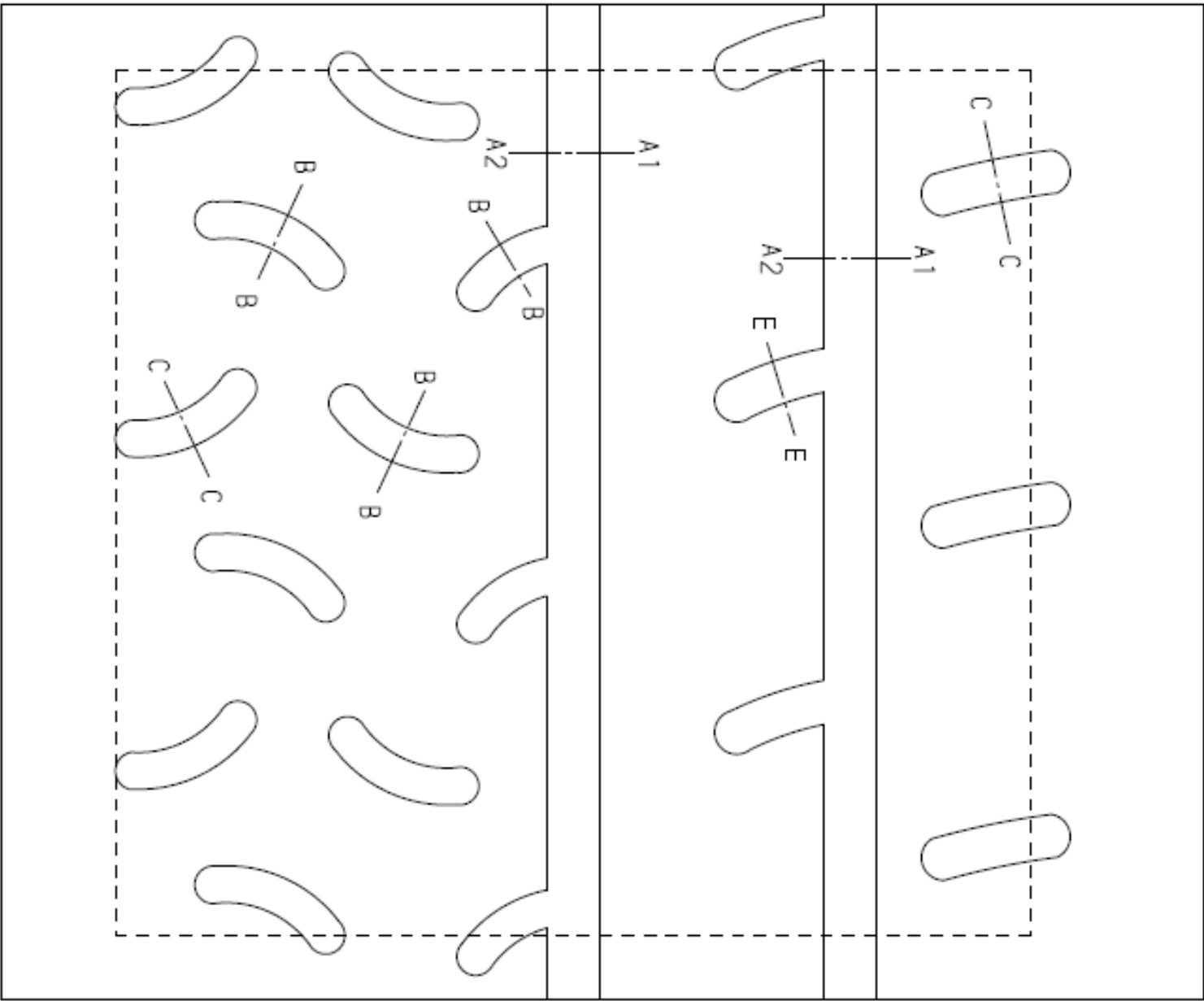
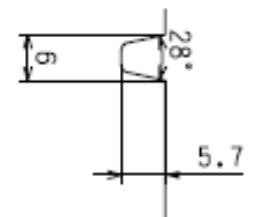
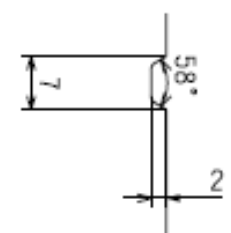
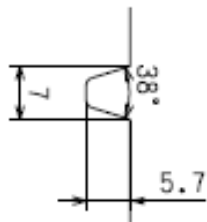
In the control area
 5.5mm grooves-18.1%
 Total grooves-21.9%

----- Control area 148X140

PRODUCT NAME
YOKOHAMA ADVAN A051T

PATTERN NAME
A051A

SIZE 190/600R16


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

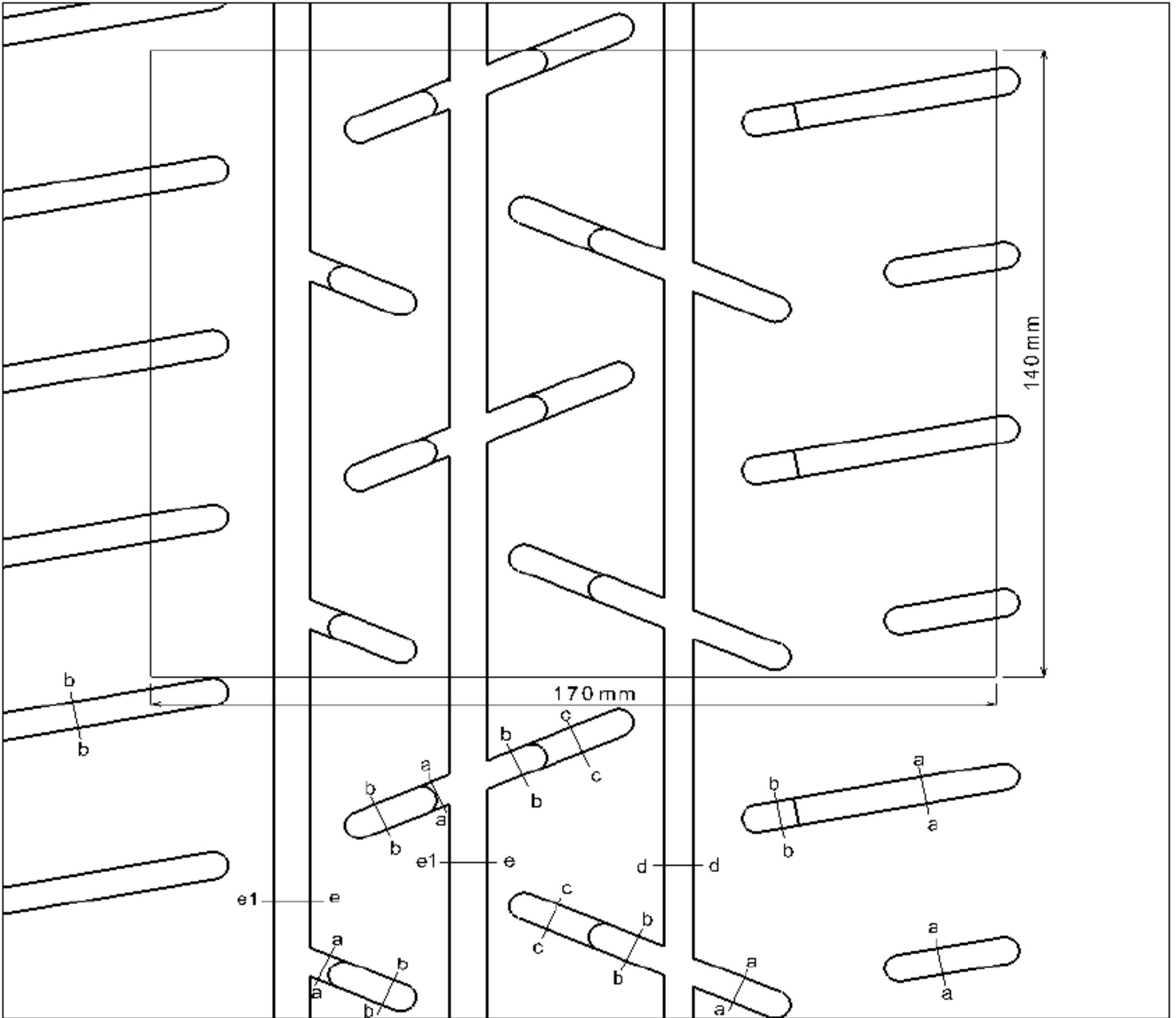
PRODUCT NAME
YOKOHAMA ADVAN A0517

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%

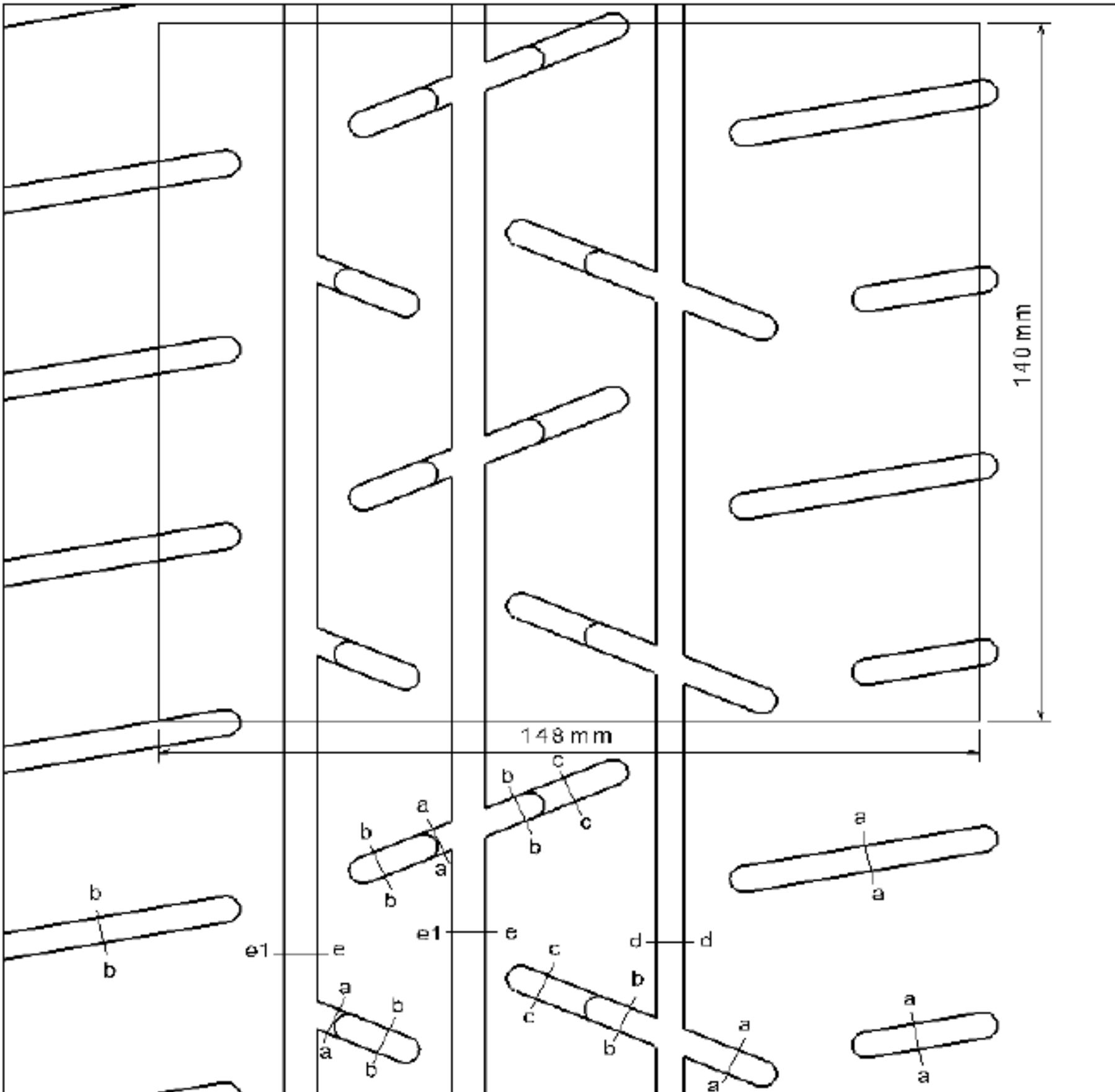
Empty Depth > 1.8mm : 23.30%

GROOVE SURFACE AREA = 554540 mm²

Control Surface = 23800 mm²

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%

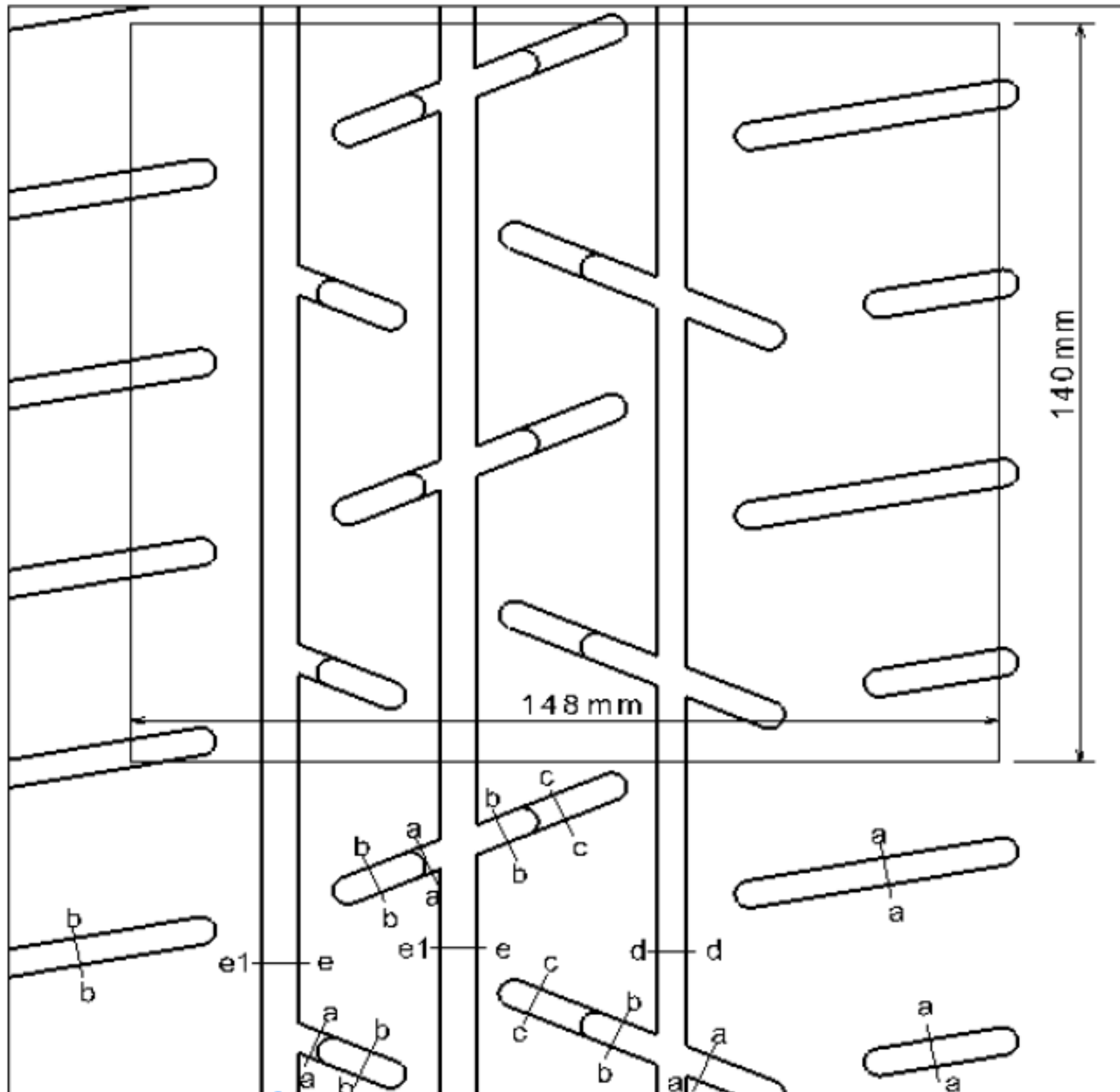
8

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

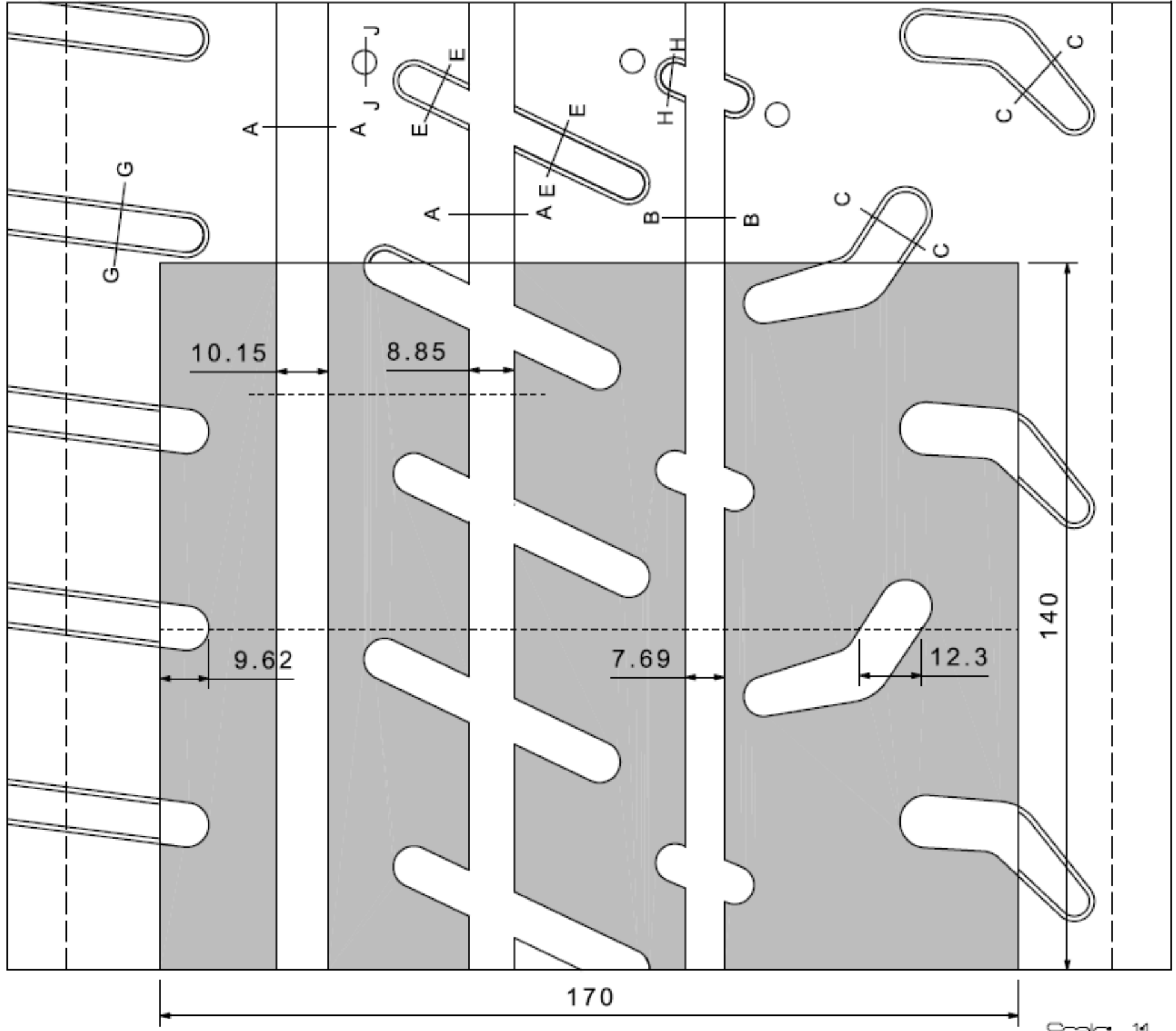
18" - 210/645R18

KUMHO TYRES

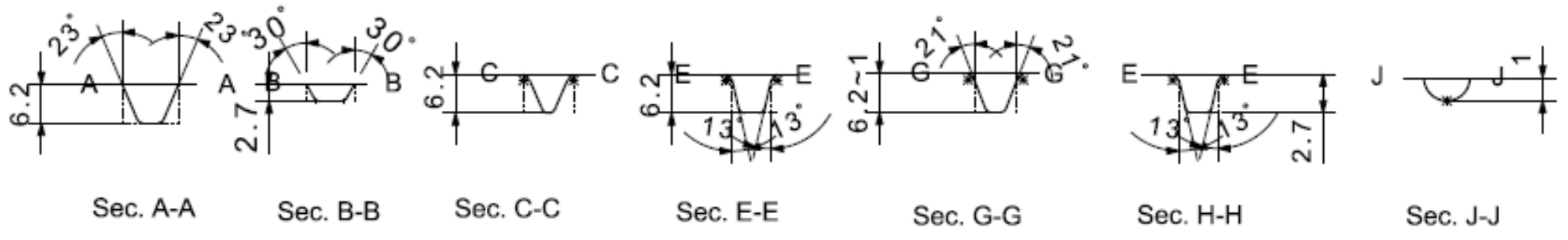


Moulded tyre for FIA homologation
 Size : 210/645R18
 Pattern : TM01

- 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%



18" - 210/645R18

KUMHO TYRES

KUMHO TIRE

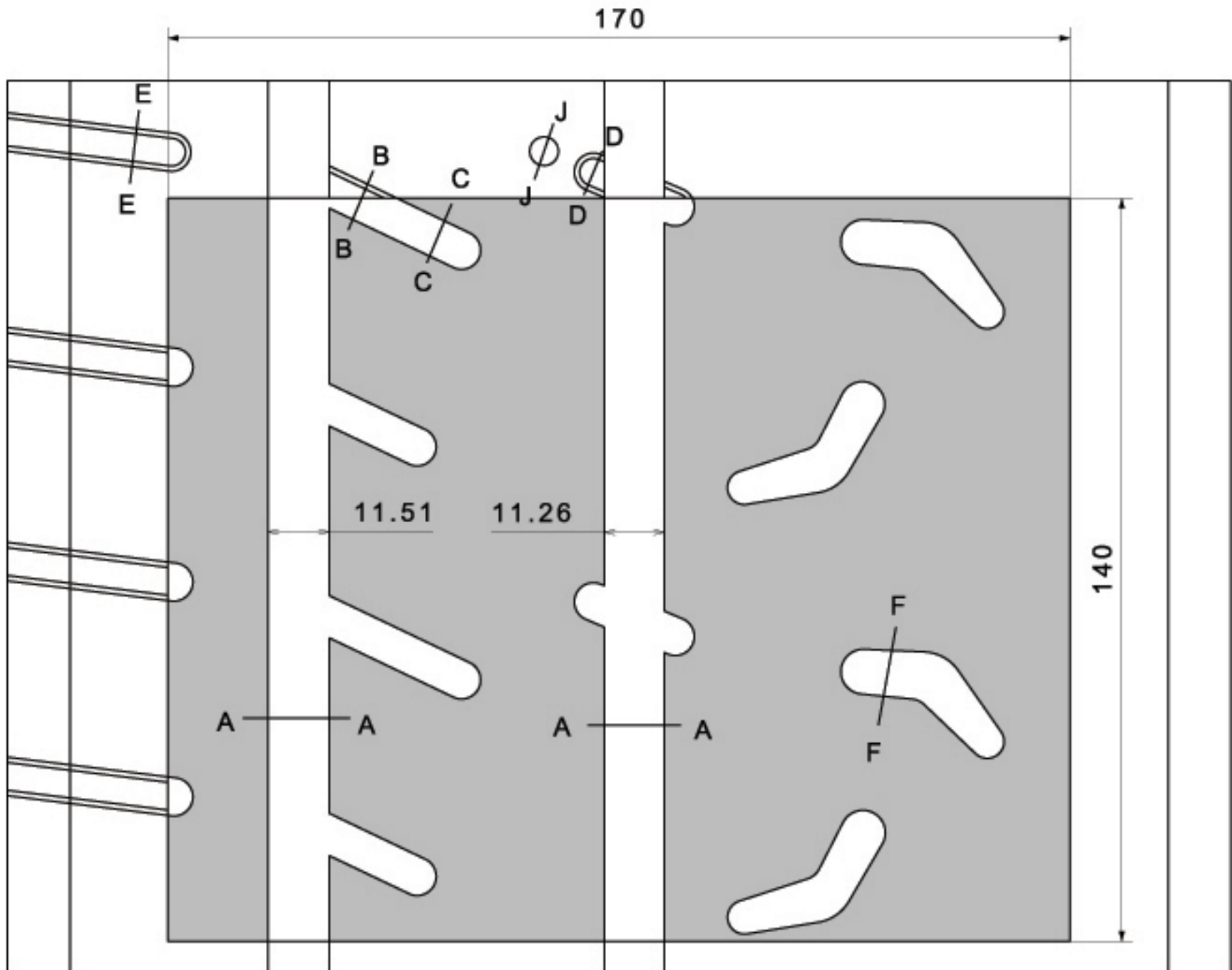
Moulded tyre for FIA homologation

Size : 210/645R18

Pattern : TM02

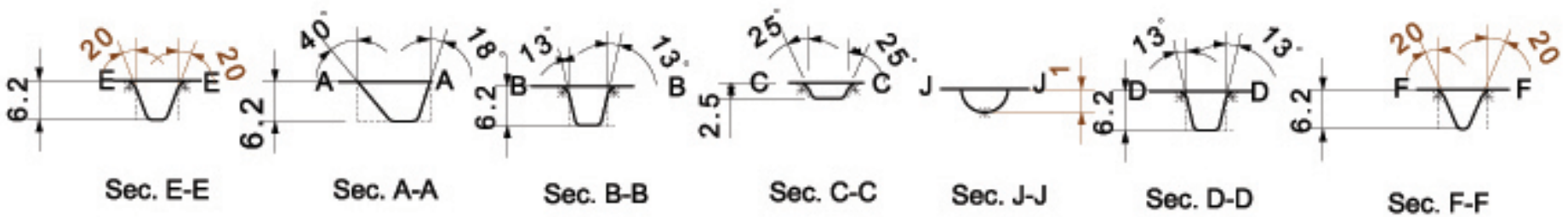
On the basis of a tread pattern width of 170mm and circumference of 140mm

- 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%



18" - 210/645R18

KUMHO TYRES

NEW

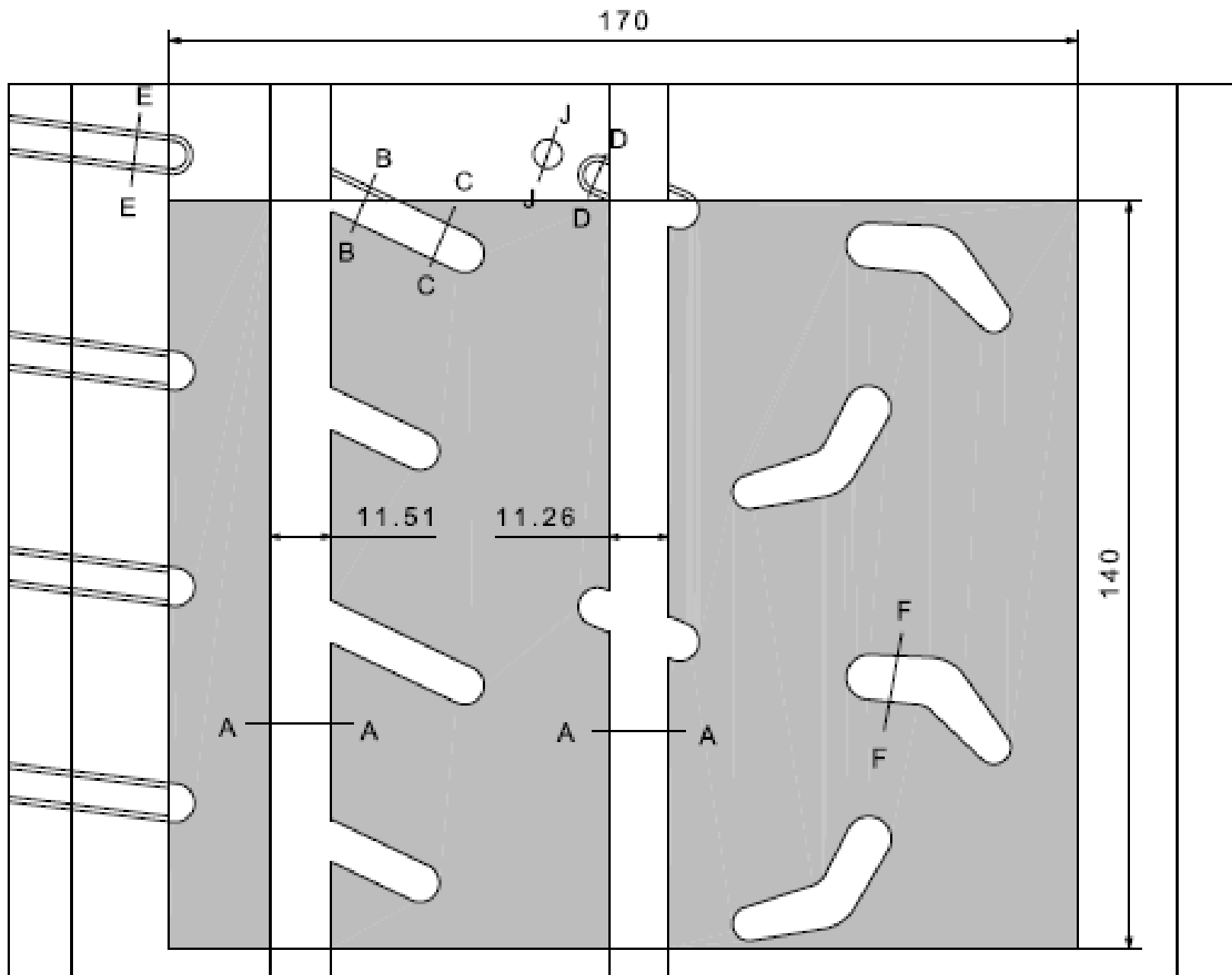
KUMHO TIRE

Moulded tyre for FIA homologation

Size : 210/645R18

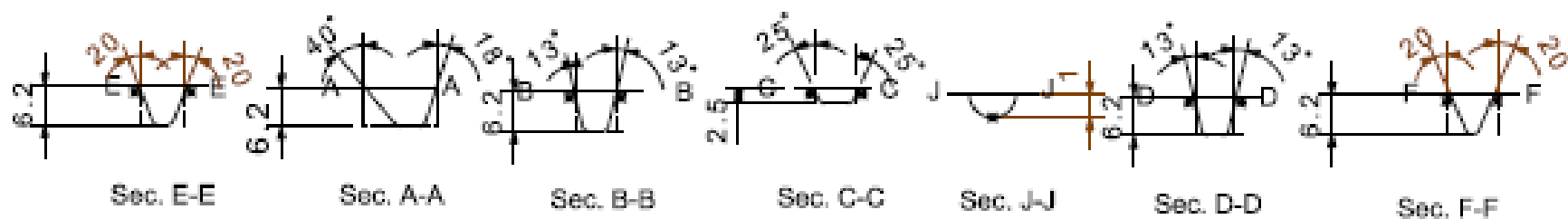
Pattern : TM02

- 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 TIRE

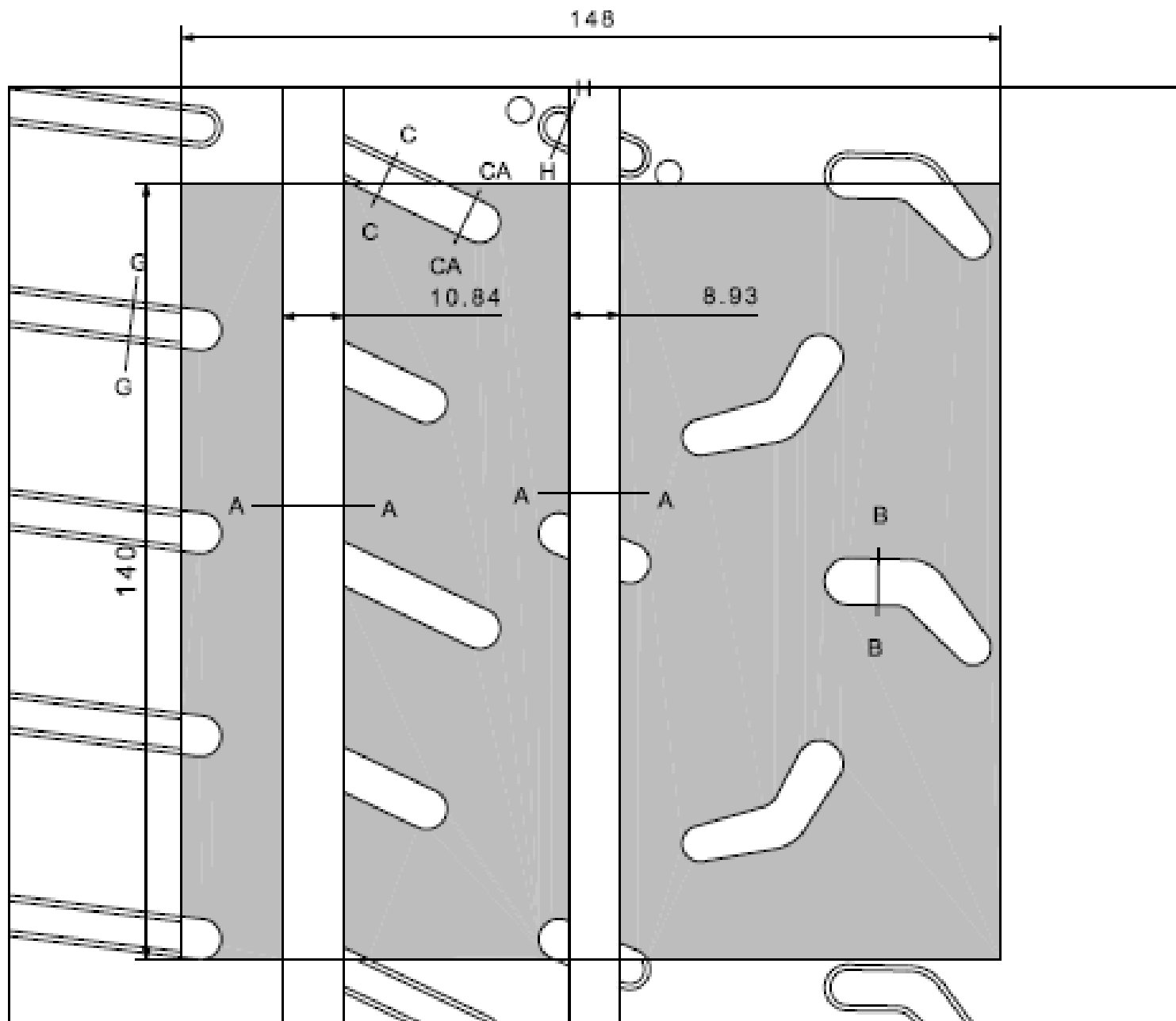
Moulded tyre for FIA homologation

Size : 190/630 R17

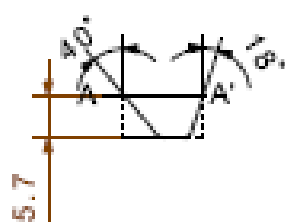
Pattern : TM02

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

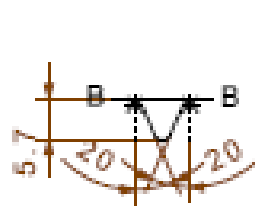
- The surface taken up by grooves at least 5.5 mm deep, with a maximum angle of 60° between the block in section and 2mm wide, must occupy at least 17% of the total surface.
- The surface taken up by grooves at least 1.8 mm deep, with a maximum angle of 60° between the block in section and 2mm wide,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



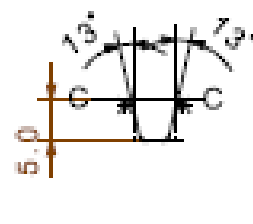
Groove Area by 148 x 140 at least 1.8mm deep : 4579.1mm²
 Void % : 22.1%
 Groove Area by 148 x 140 at least 5.5mm deep : 3688.1mm²
 Void % : 17.8%



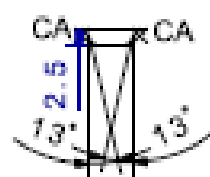
Sec. A-A'



Sec. B-B



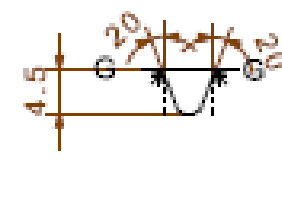
Sec. C-C



Sec. CA-CA



Sec. H-H

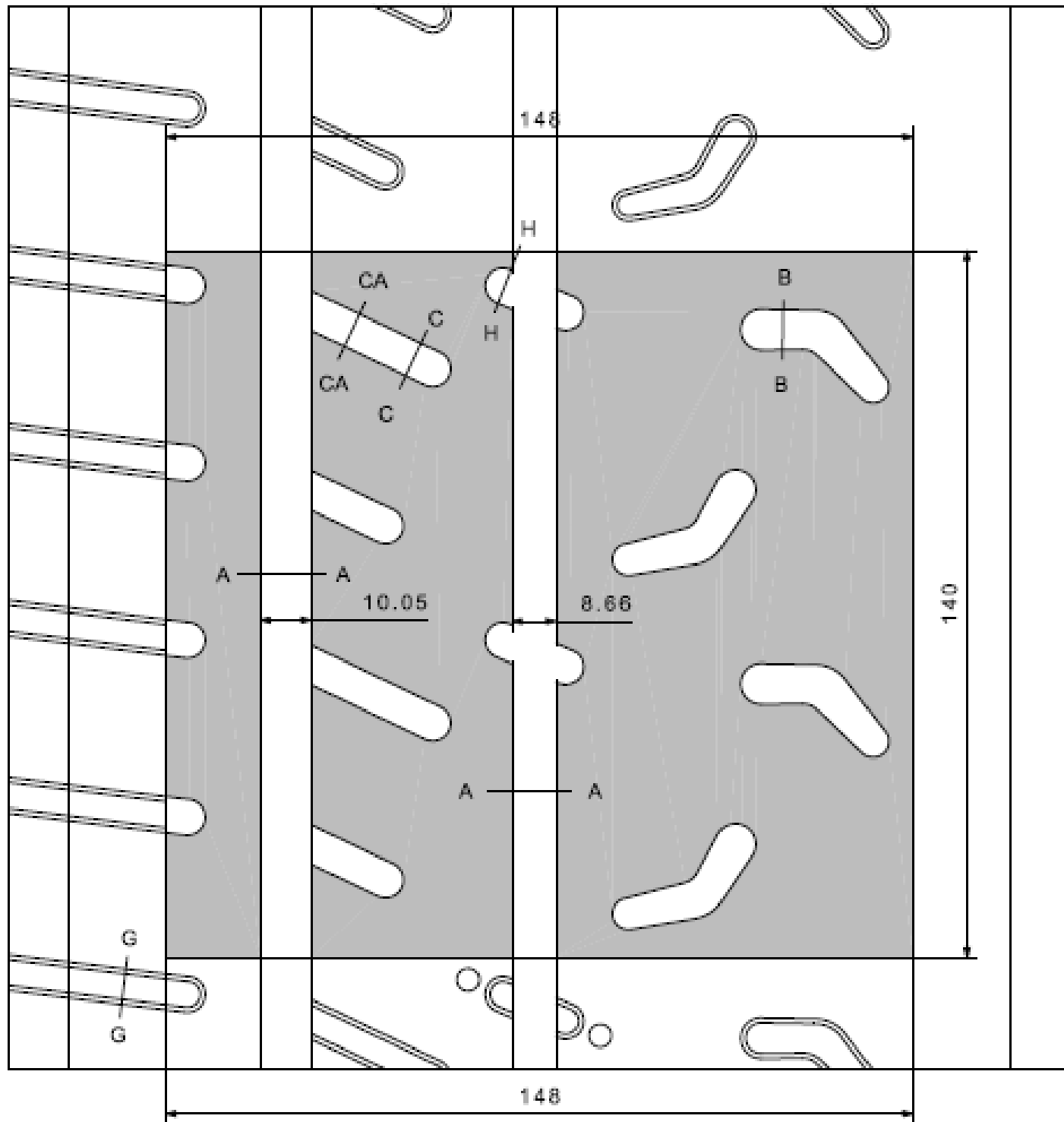


Sec. G-G

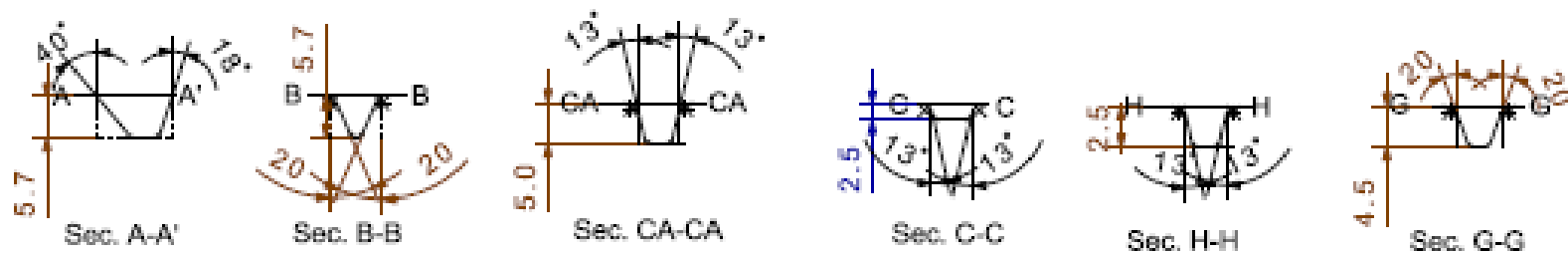
KUMHO TIRE

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 %



15" - 180/580R15

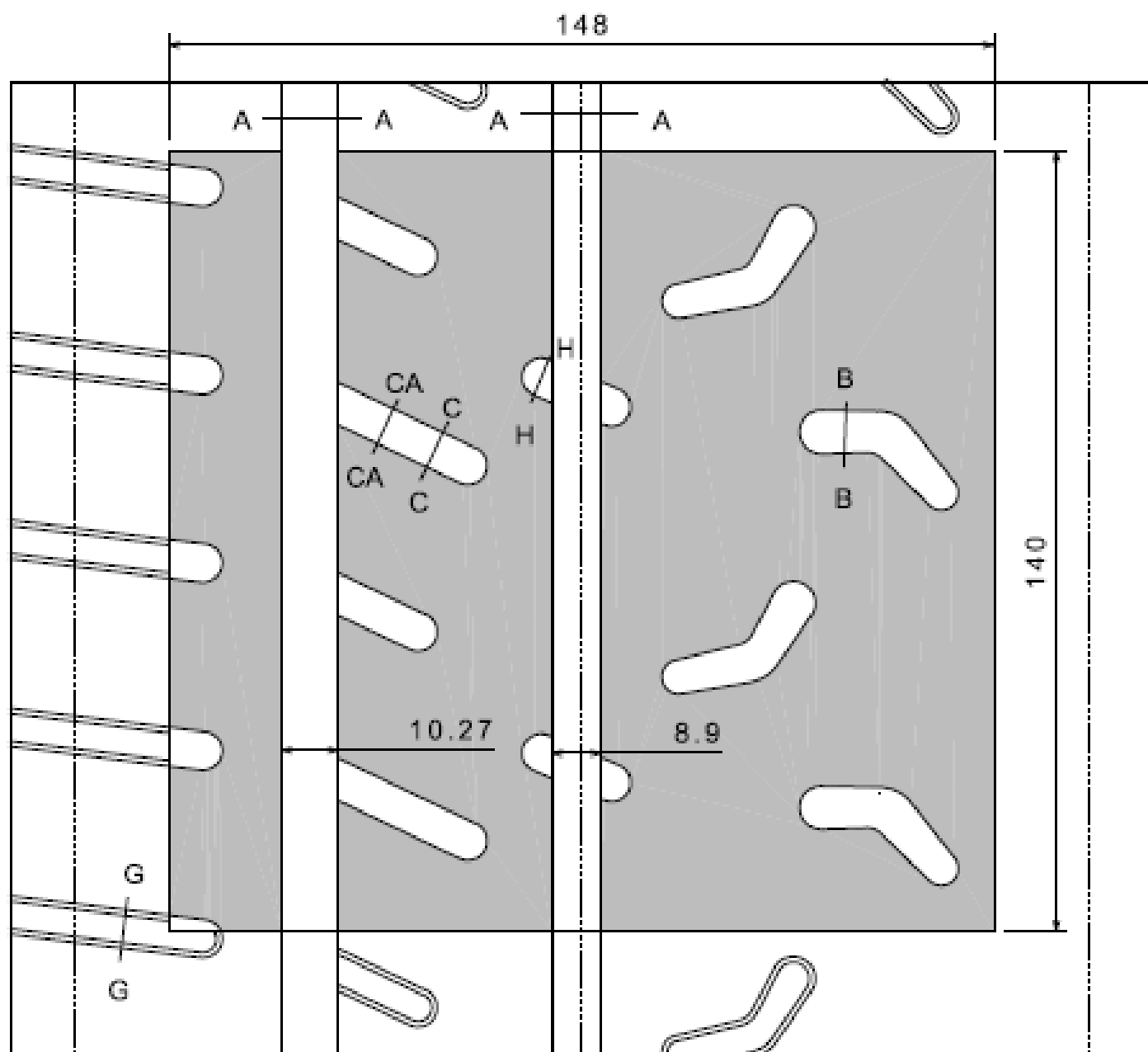
KUMHO TYRES

NEW

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%

