



2017 List of Asphalt Eligible Tyres



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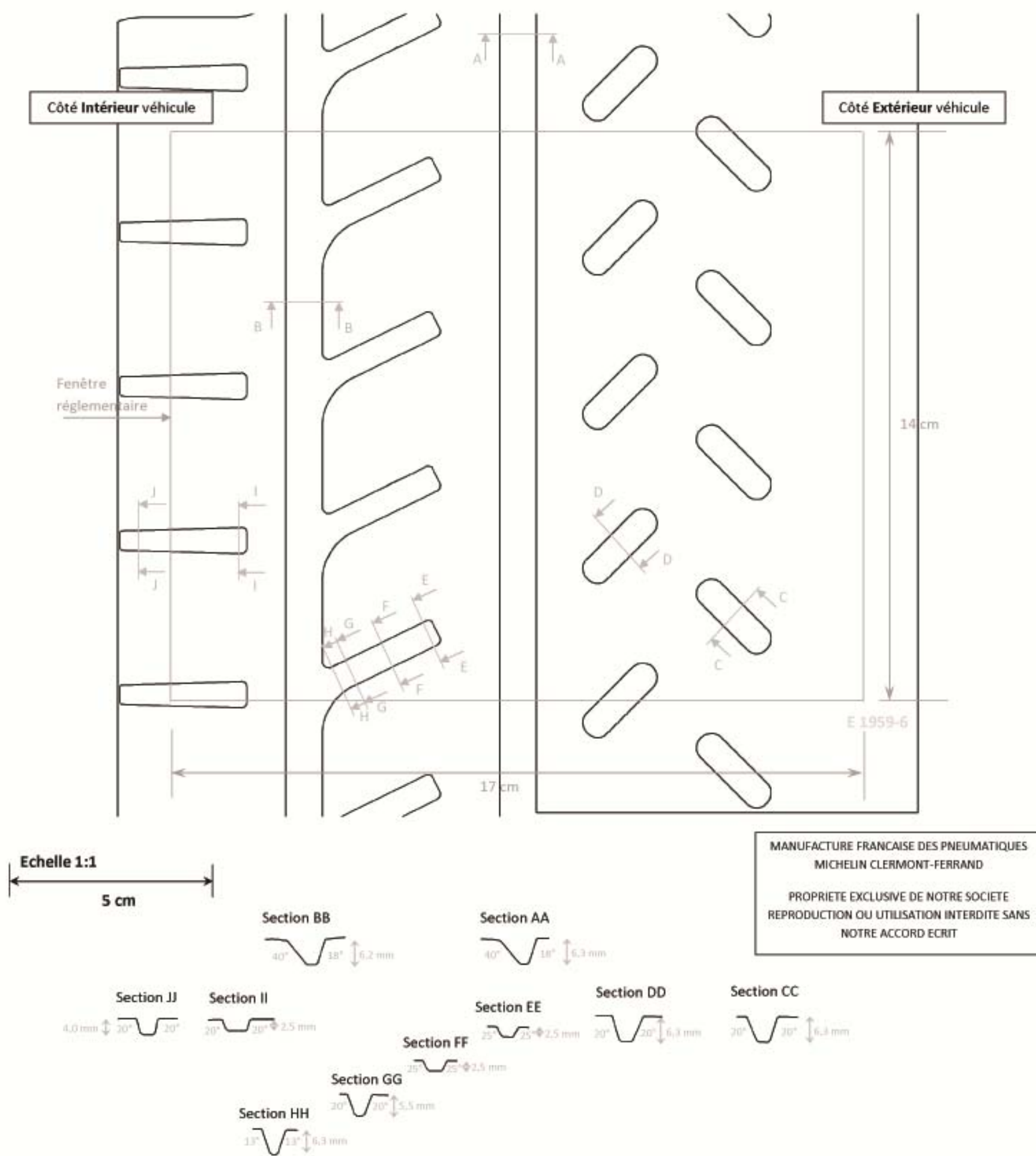


Page 34



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

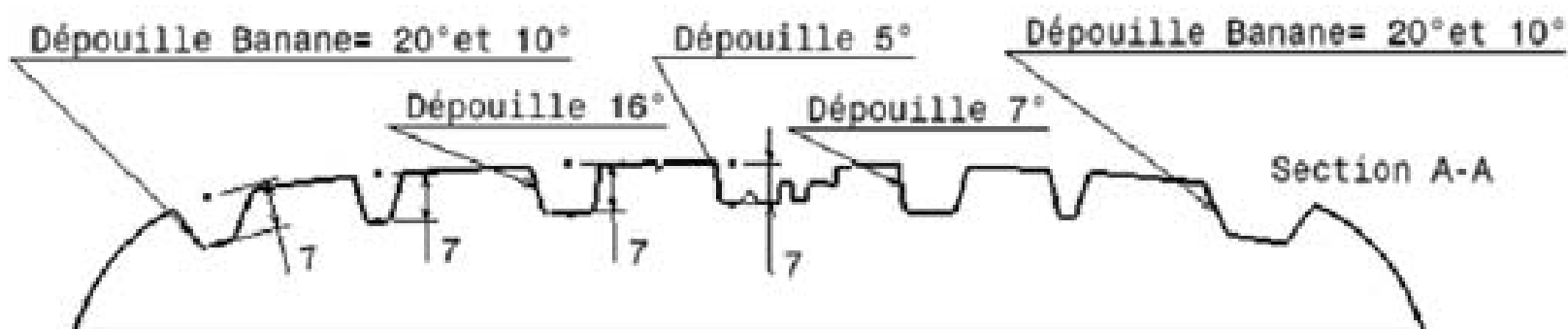
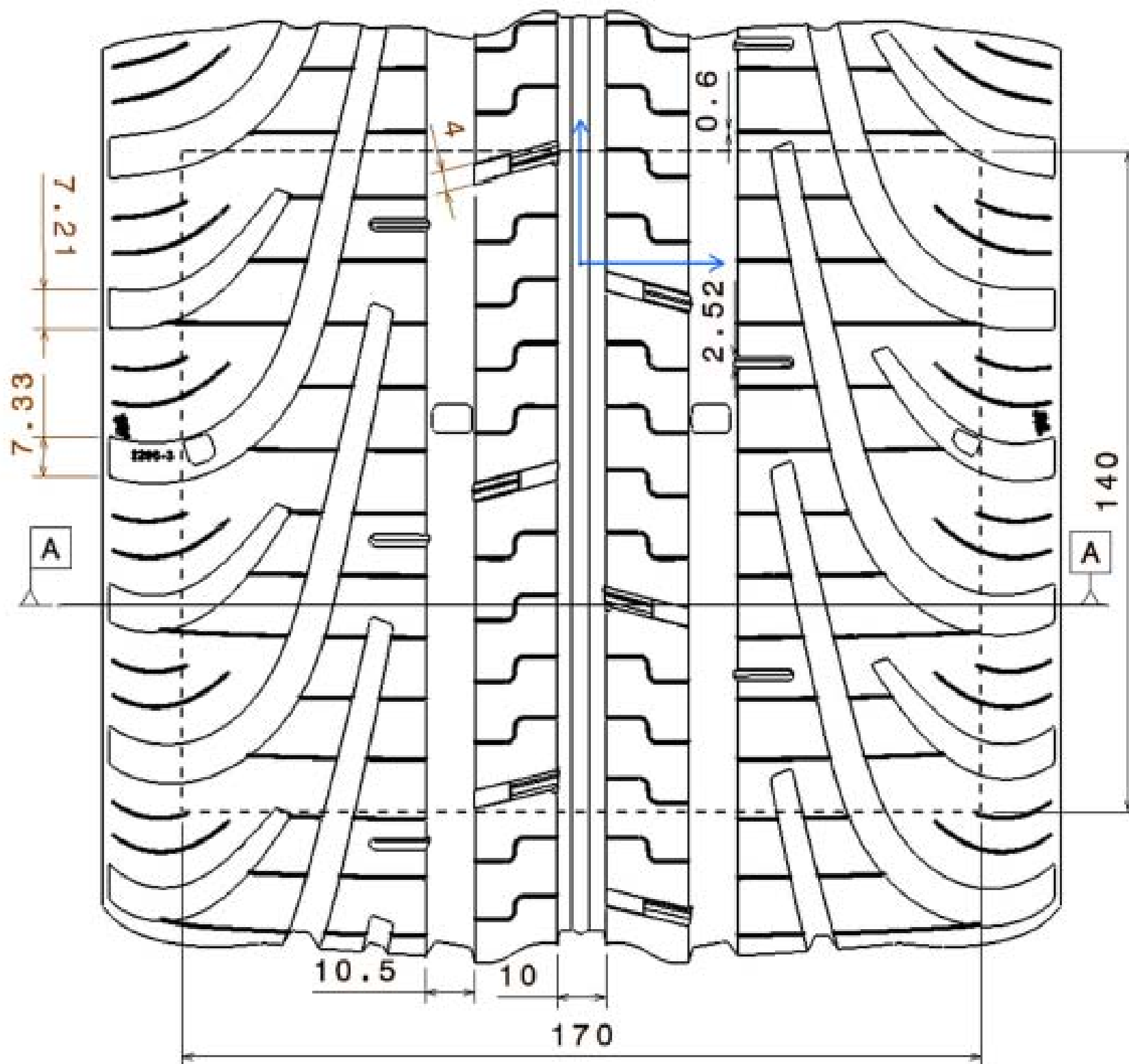
Clermont-Ferrand le 05/12/2013





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

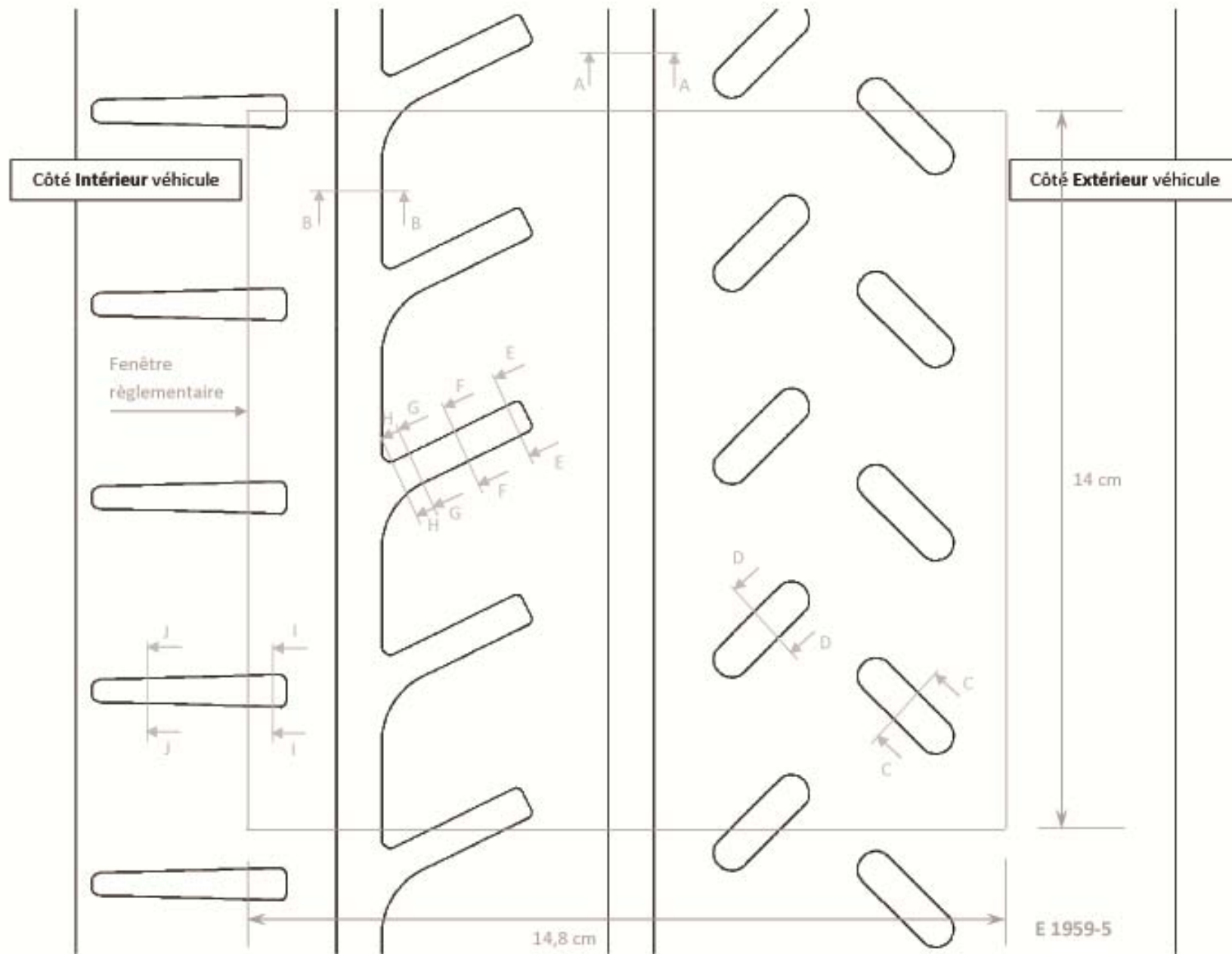
MANUFACTURE FRANCAISE DES PNEUMATIQUES
 MICHELIN CLERMONT-FERRAND
 PROPRIETE EXCLUSIVE DE NOTRE SOCIETE
 REPRODUCTION OU UTILISATION INTERDITE SANS
 NOTRE ACCORD ECRIT



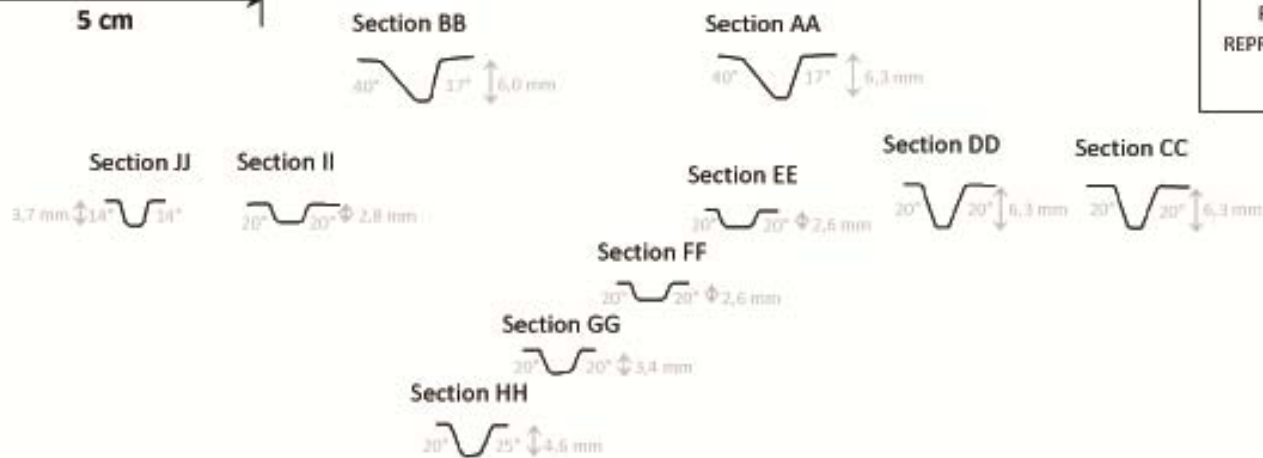


Domaine : Rallye Asphalte
 Dimension : 19 / 63 – 17
 Plan de la sculpture : Pilot Sport R
 Entaillement surfacique sur fenêtre réglementaire : 21,51 %

Clermont-Ferrand le 05/12/2013



Echelle 1:1
 5 cm

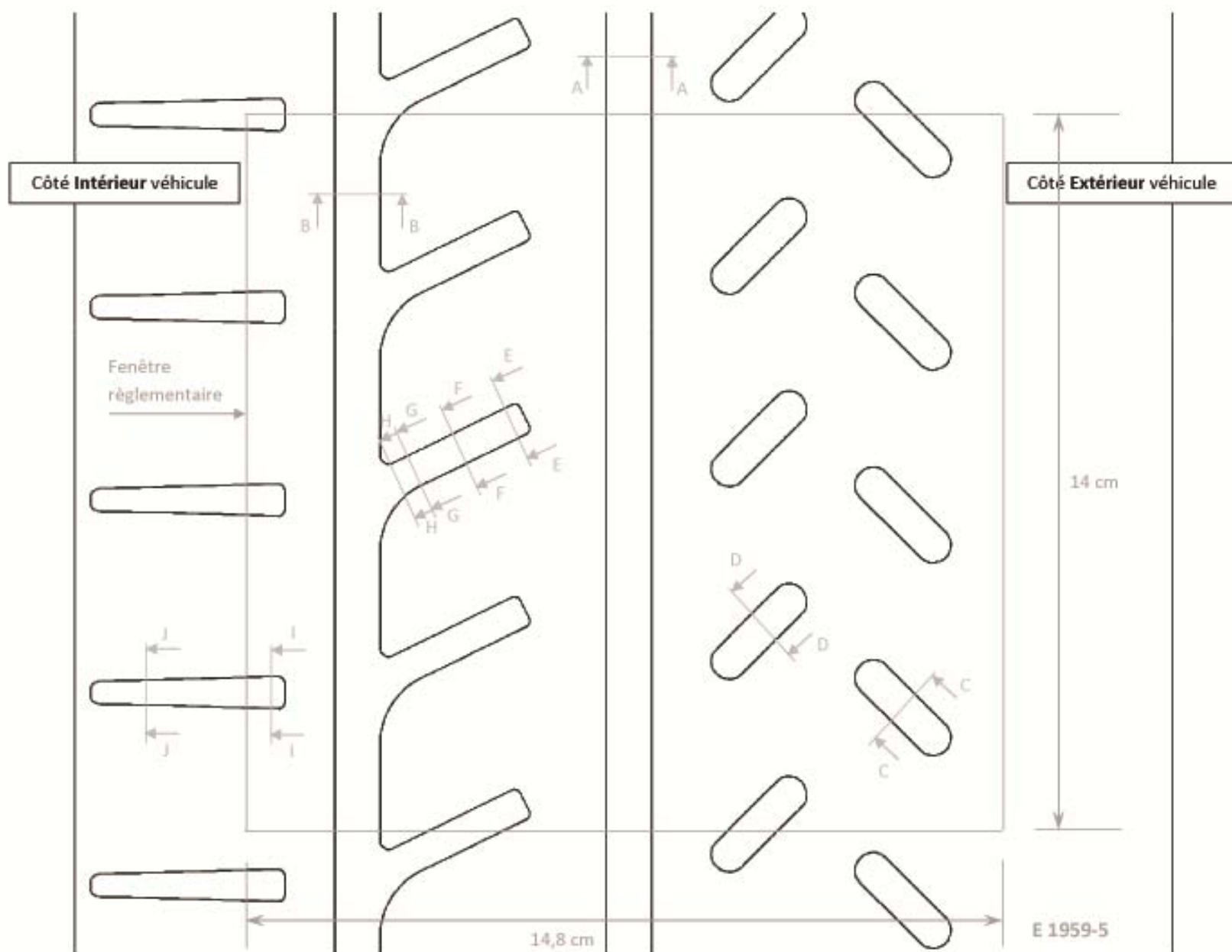


MANUFACTURE FRANCAISE DES PNEUMATIQUES
 MICHELIN CLERMONT-FERRAND
 PROPRIETE EXCLUSIVE DE NOTRE SOCIETE
 REPRODUCTION OU UTILISATION INTERDITE SANS
 NOTRE ACCORD ECRIT

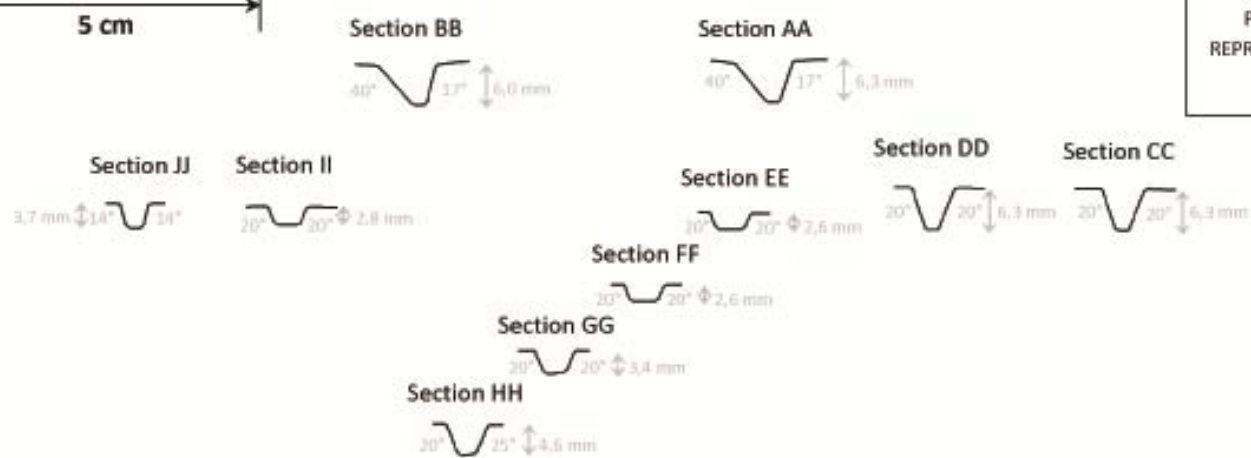


Domaine : Rallye Asphalte
 Dimension : 19 / 60 – 16
 Plan de la sculpture : **Pilot Sport R**
 Entaillement surfacique sur fenêtre réglementaire : **21,51 %**

Clermont-Ferrand le 05/12/2013



Echelle 1:1
 5 cm

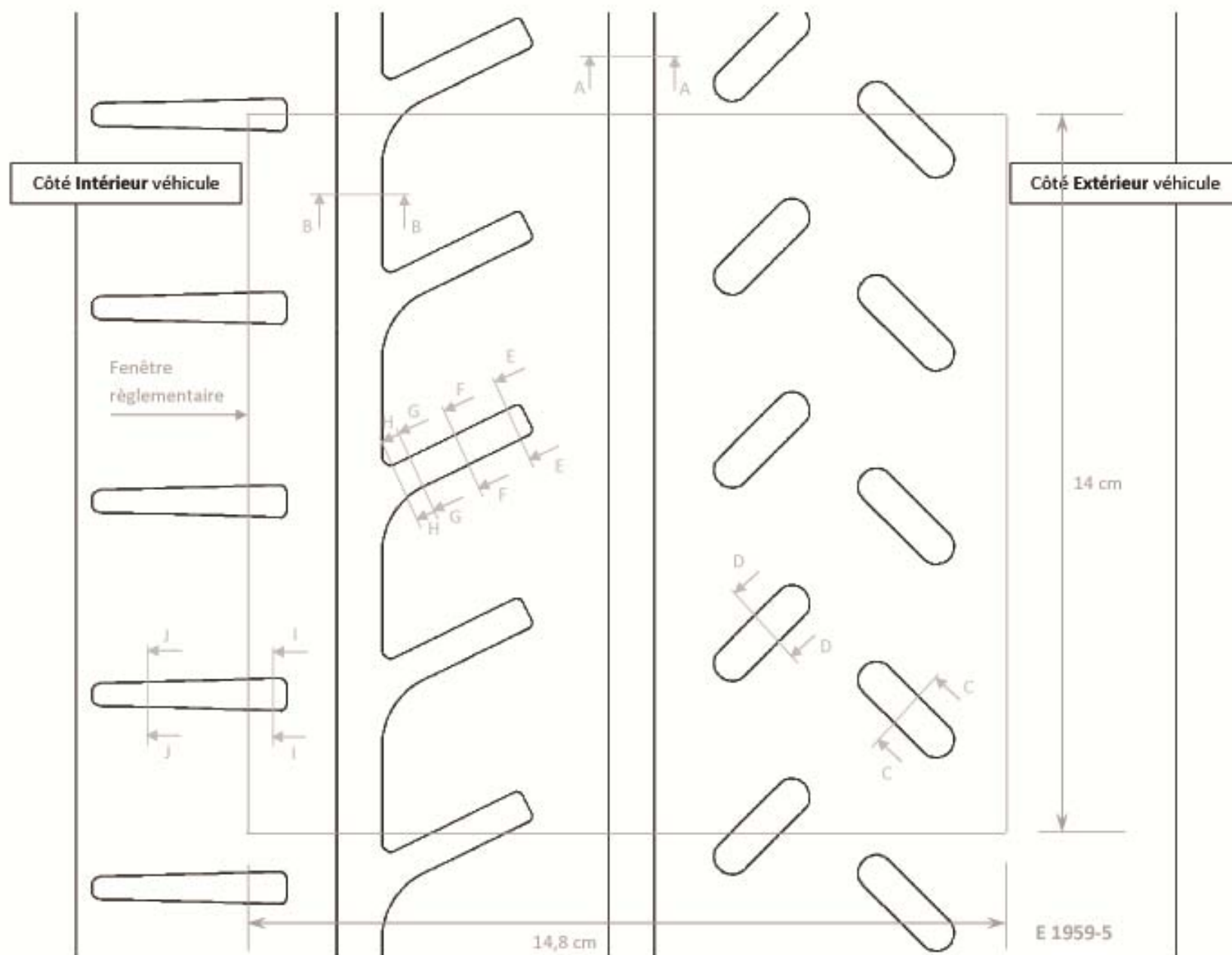


MANUFACTURE FRANCAISE DES PNEUMATIQUES
 MICHELIN CLERMONT-FERRAND
 PROPRIETE EXCLUSIVE DE NOTRE SOCIETE
 REPRODUCTION OU UTILISATION INTERDITE SANS
 NOTRE ACCORD ECRIT

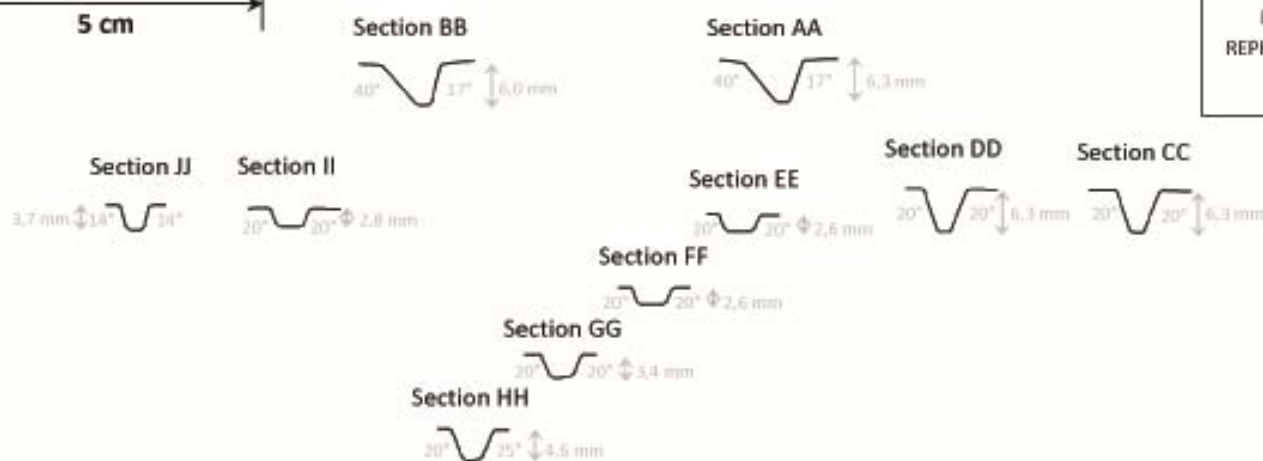


Domaine : Rallye Asphalte
 Dimension : 19 / 58 – 15
 Plan de la sculpture : Pilot Sport R
 Entaillement surfacique sur fenêtre réglementaire : 21,51 %

Clermont-Ferrand le 05/12/2013



Echelle 1:1
 5 cm

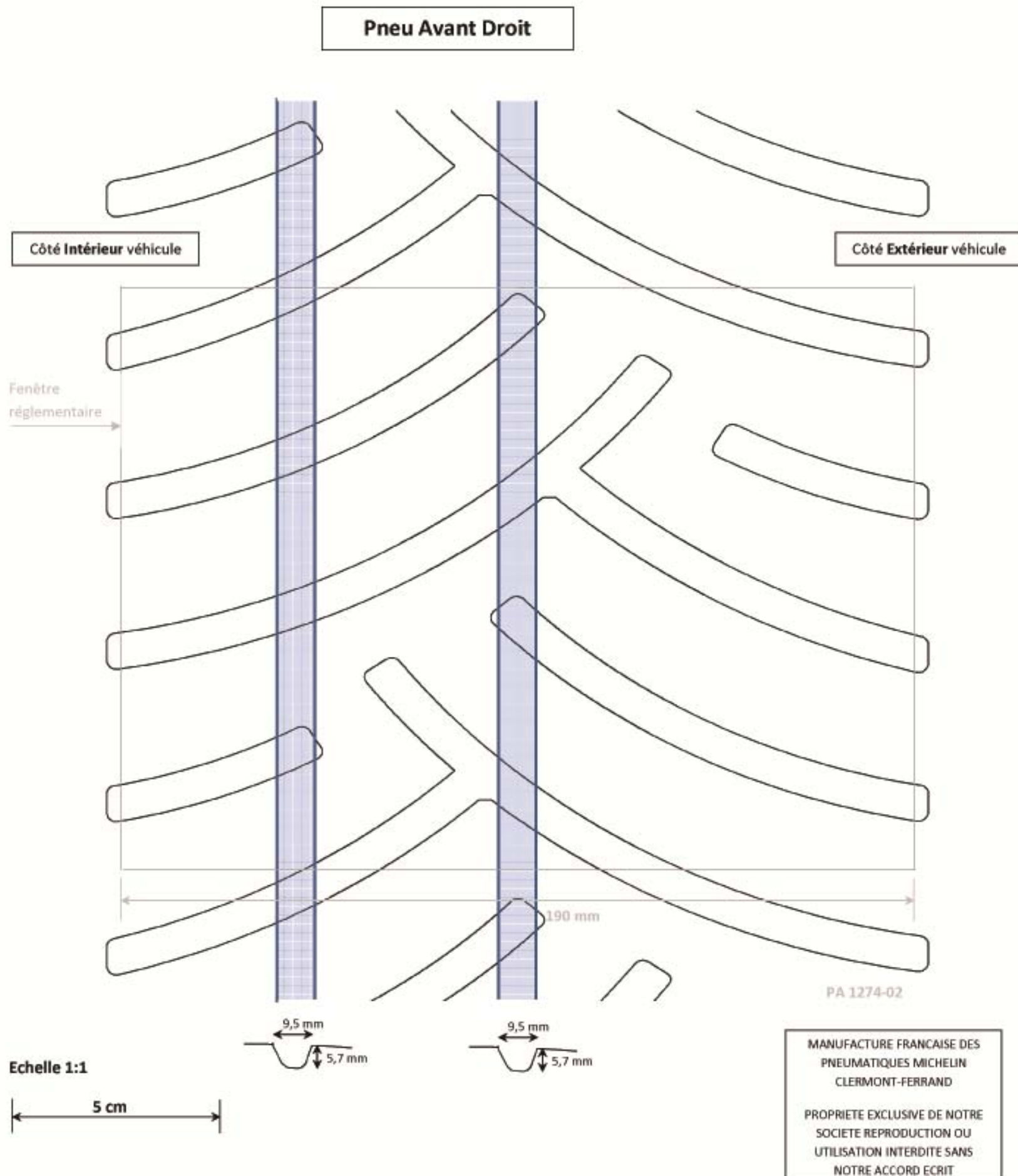


MANUFACTURE FRANCAISE DES PNEUMATIQUES
 MICHELIN CLERMONT-FERRAND
 PROPRIETE EXCLUSIVE DE NOTRE SOCIETE
 REPRODUCTION OU UTILISATION INTERDITE SANS
 NOTRE ACCORD ECRIT



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



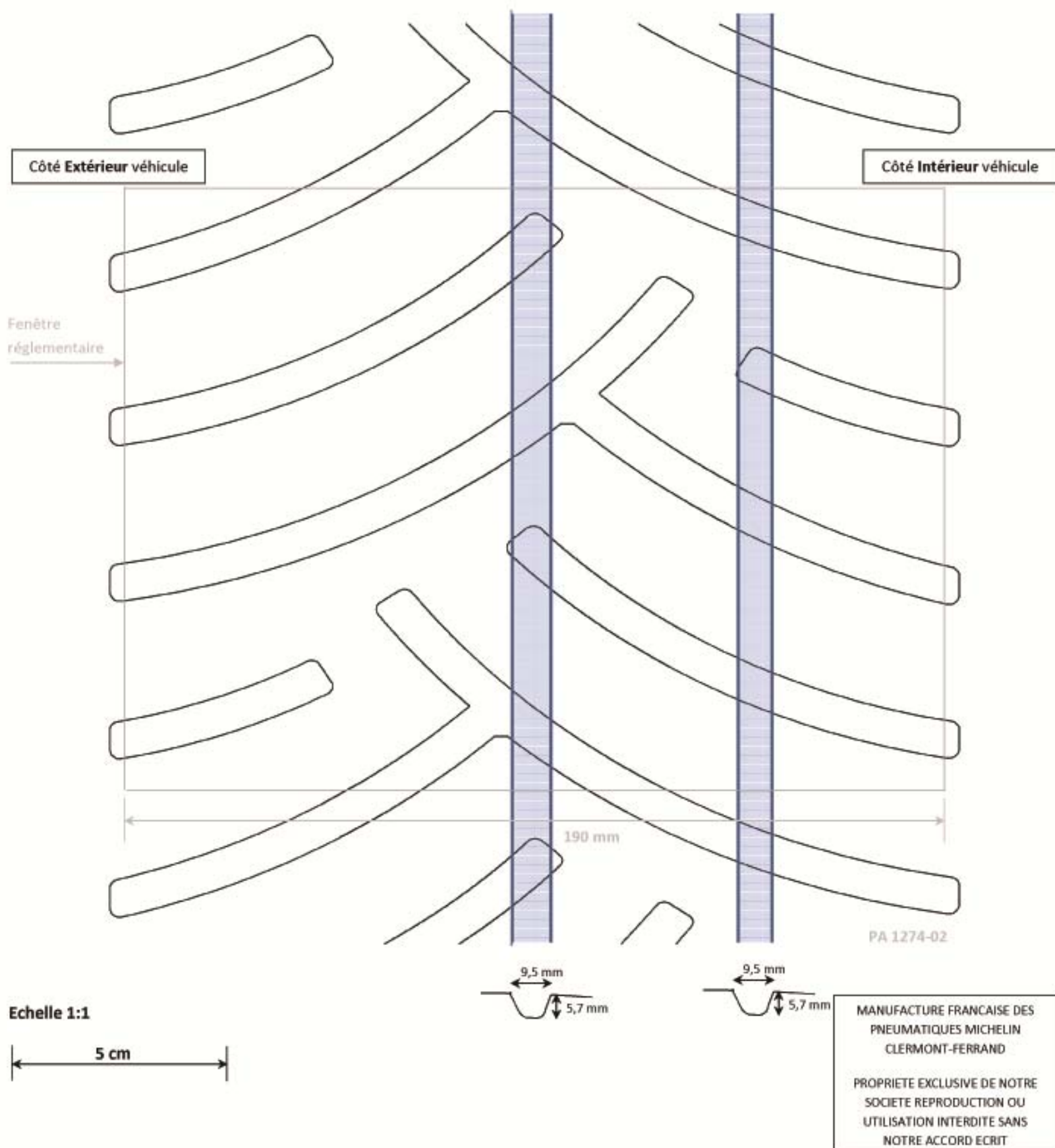
Circumferential grooves are hand-cutted.



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

Clermont-Ferrand le 18/12/2013

Pneu Avant Gauche

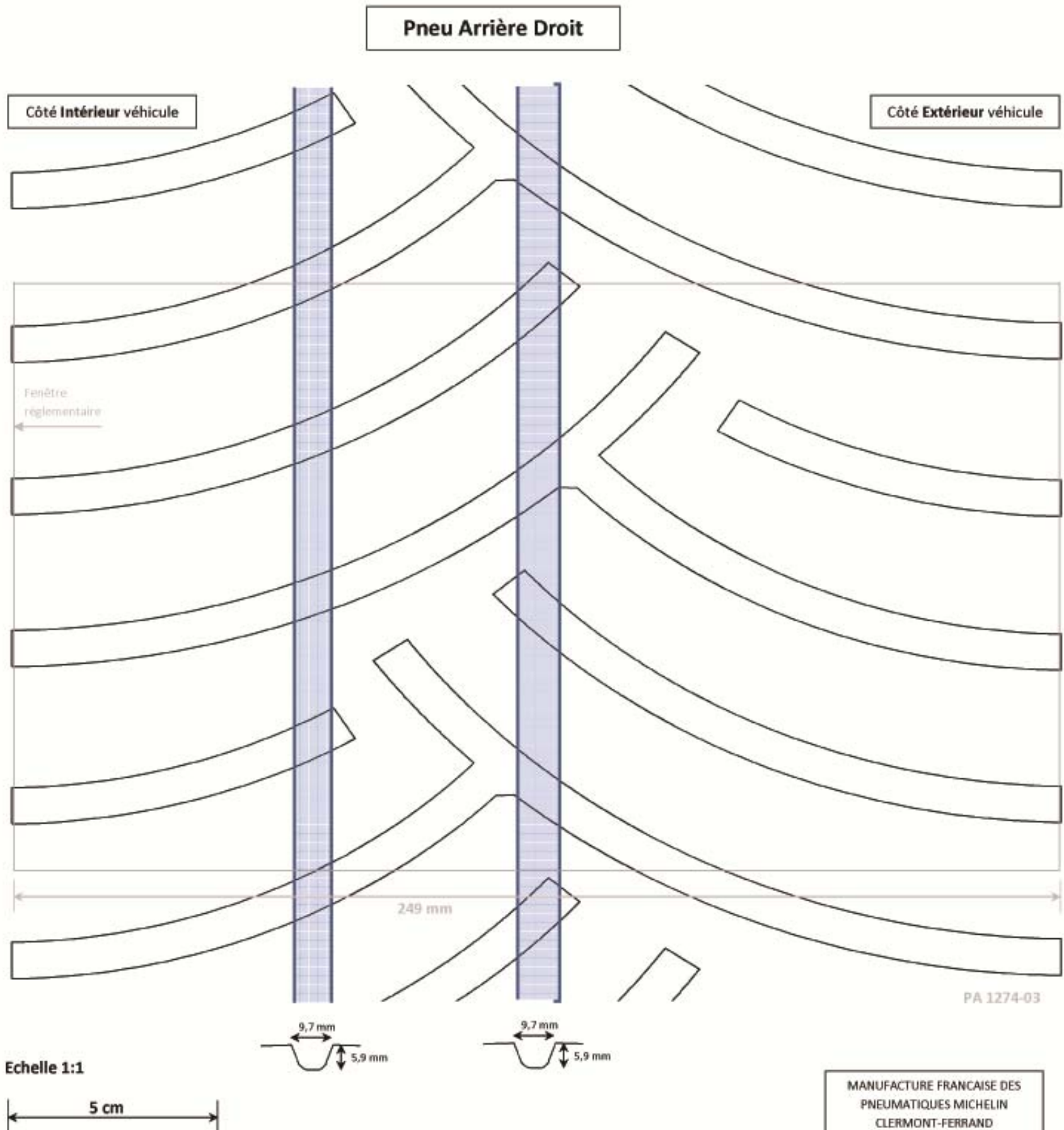


Circonférential grooves are hand-cutted.



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

Clermont-Ferrand le 18/12/2013

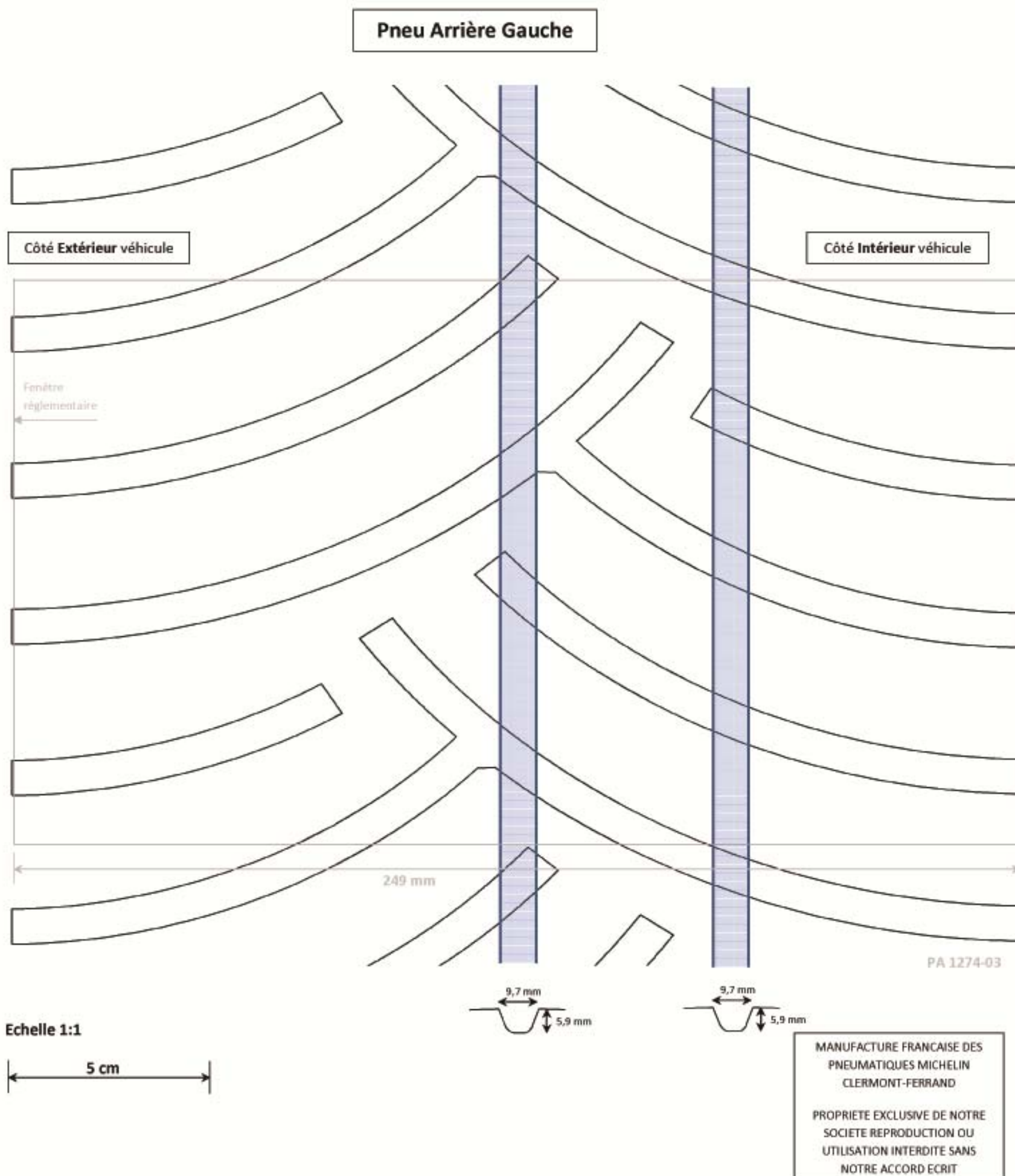


Circonférential grooves are hand-cutted.



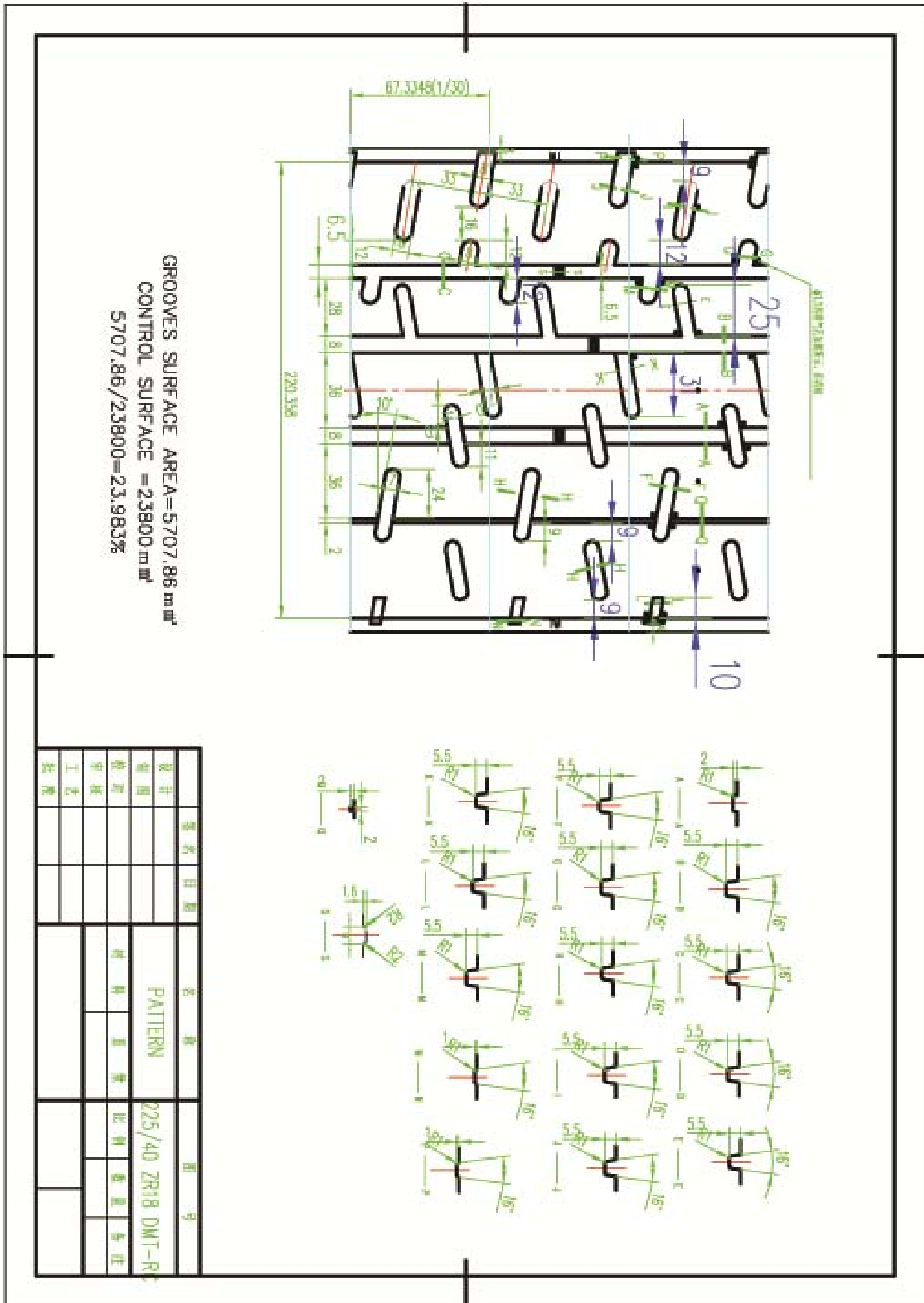
Domaine : **Rallye Asphalte**
Dimension : **29 / 65 – 18**
Entaillement surfacique sur fenêtre de 249 mm de large : **31 %**

Clermont-Ferrand le 18/12/2013



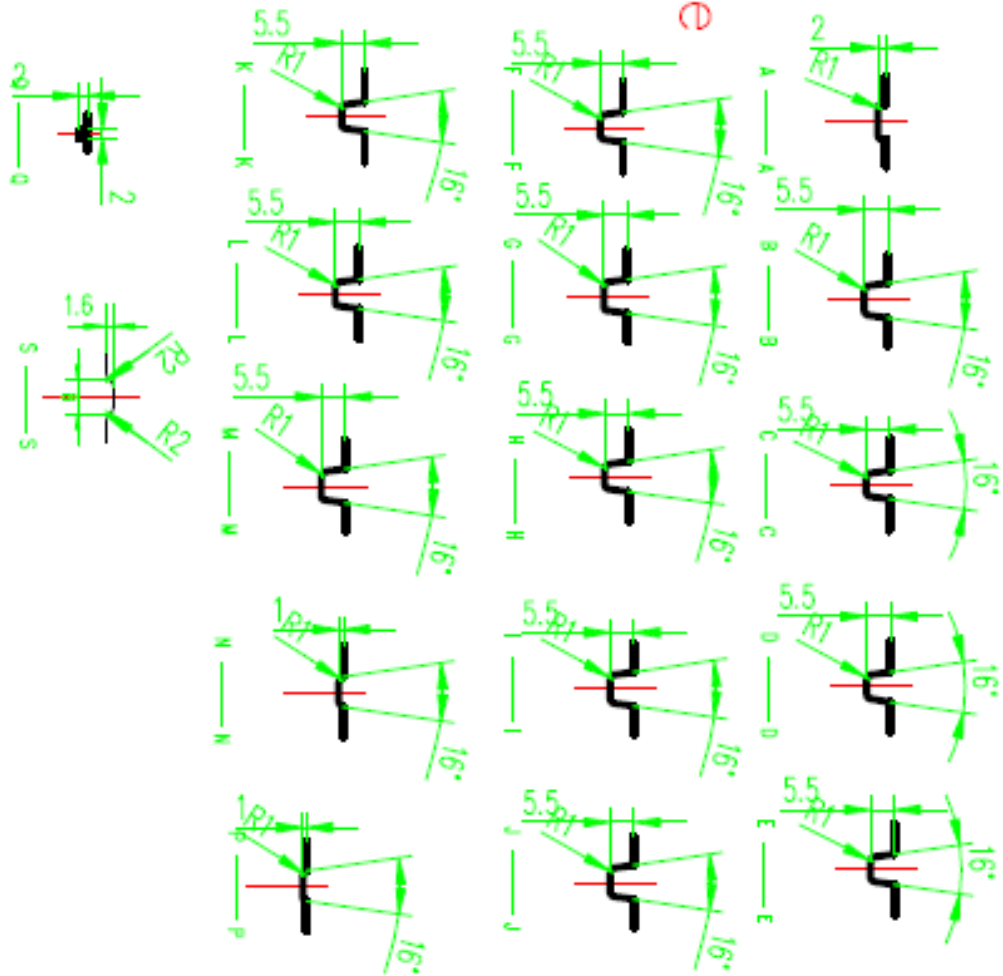
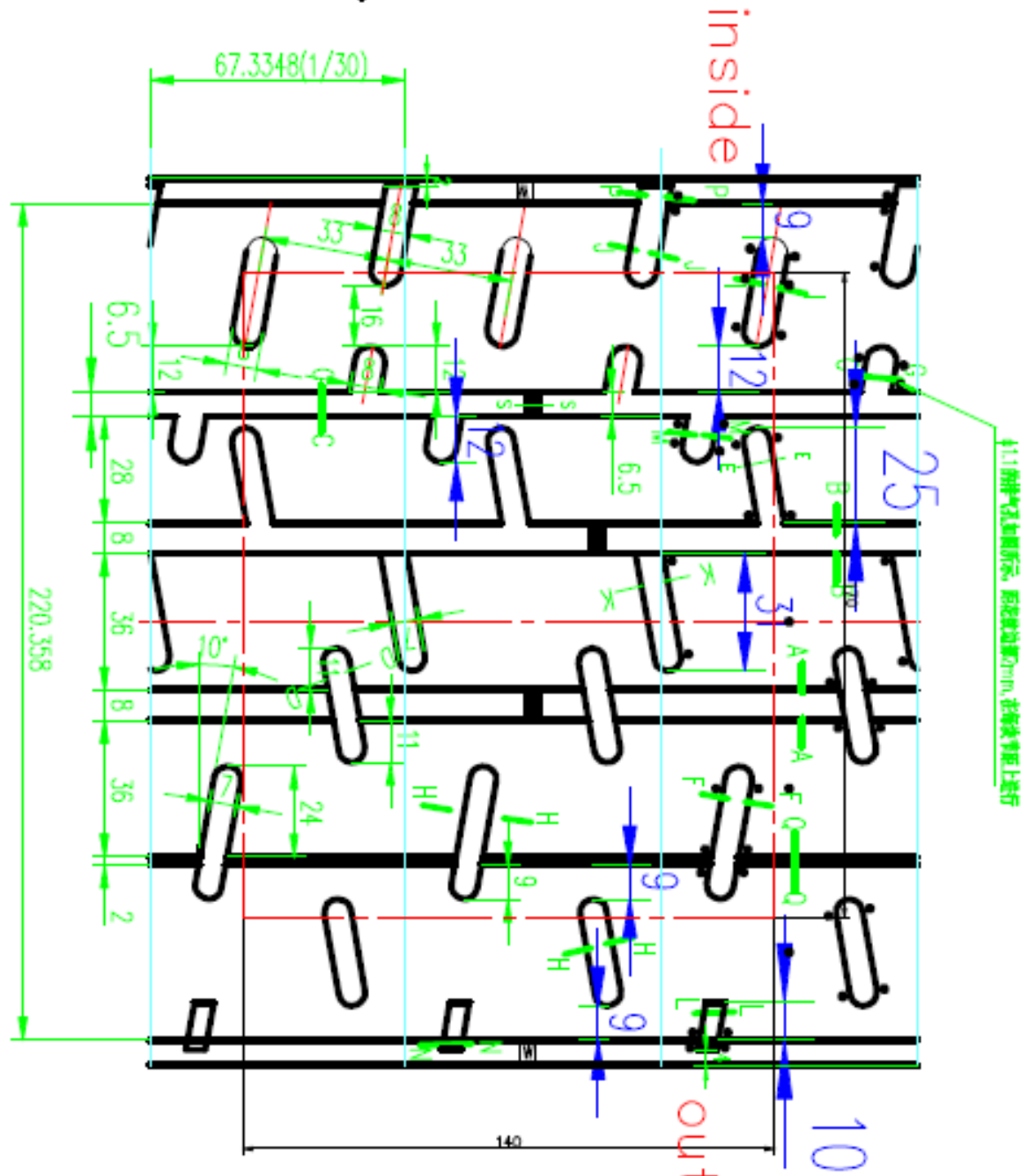
Circonférential grooves are hand-cutted.

18" – 225/40-18



17" – 225/45-17

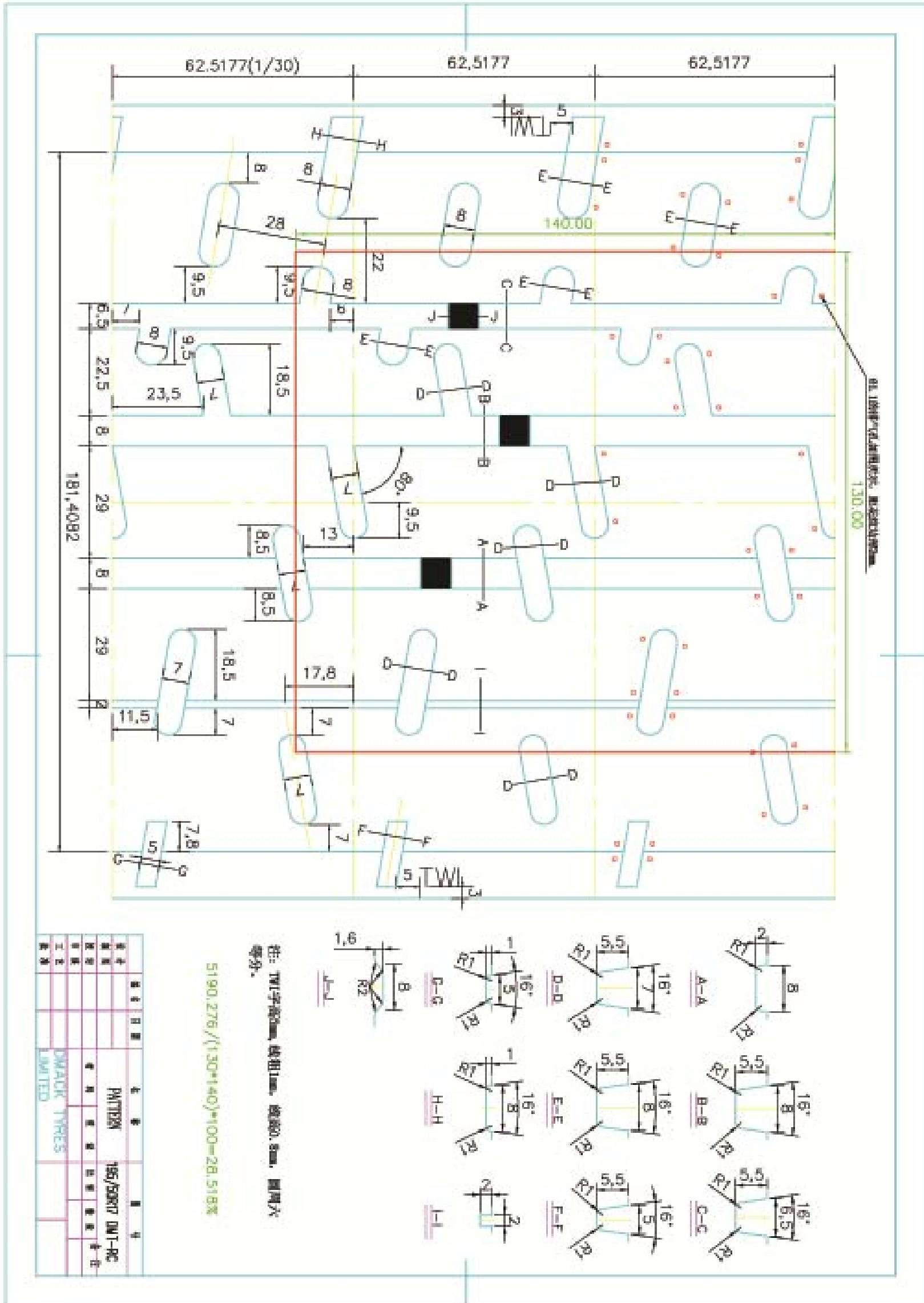
GROOVES SURFACE AREA=5707.86 m²
 CONTROL SURFACE =23800 m²
 5707.86/23800=23.983%



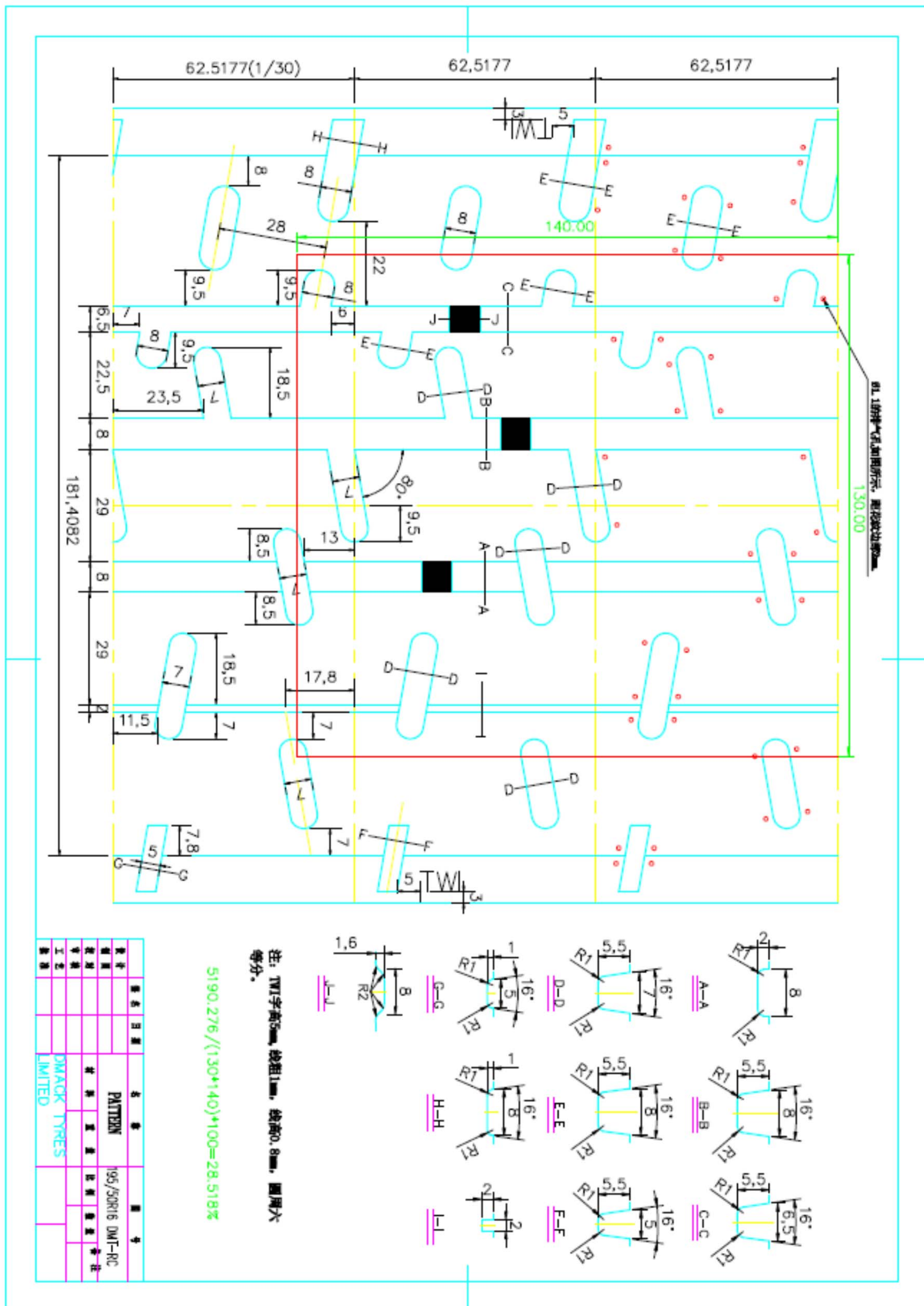
设计	签名	日期	名称	图号
制图			PATTERN	225/45R17 DMT-RC
校对			材料	重量
审核				比例
工艺				数量
批准			Dmack Tyre Ltd	备注

17" – 205/45-17

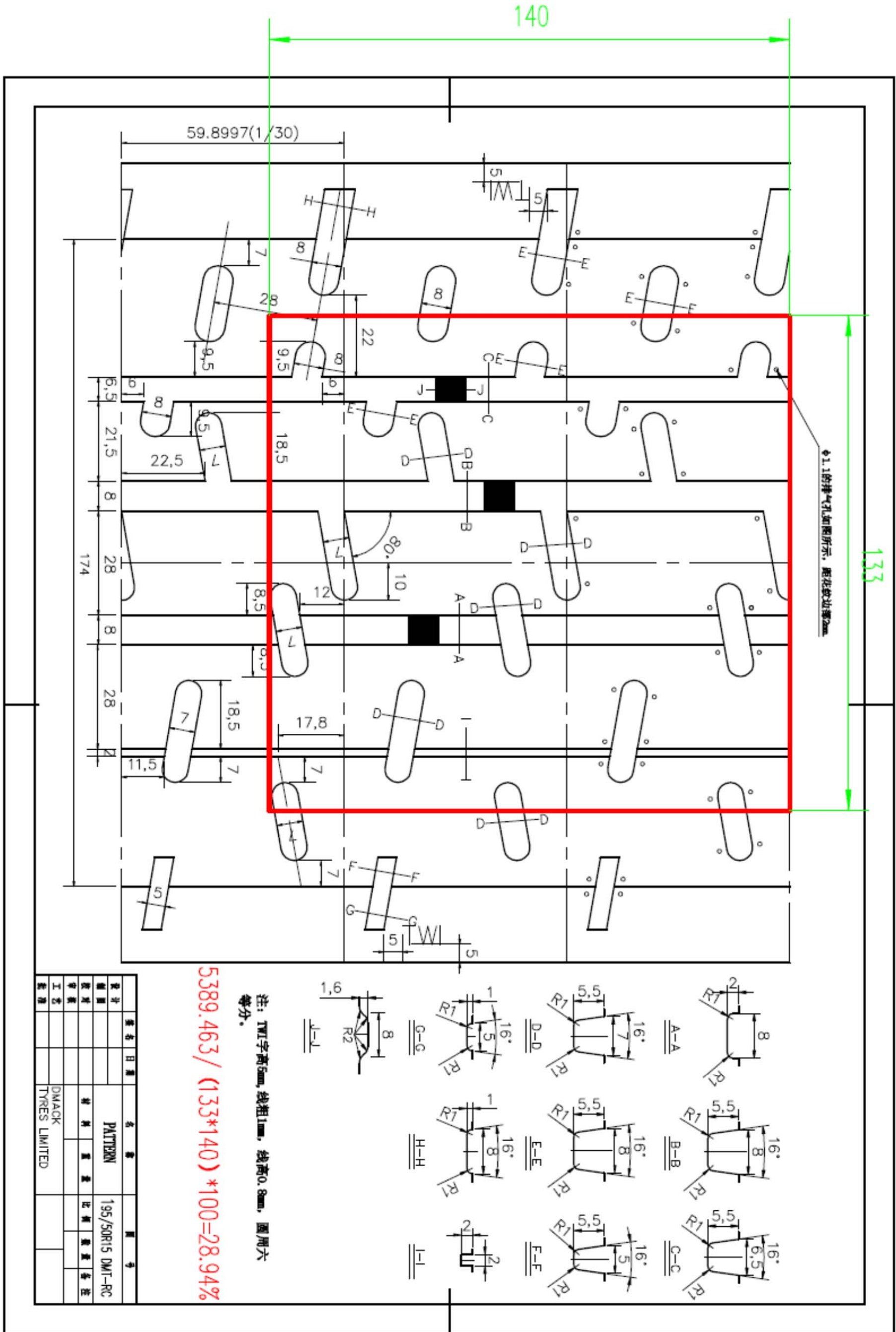
17" – 195/50-17



16" – 195/50-16

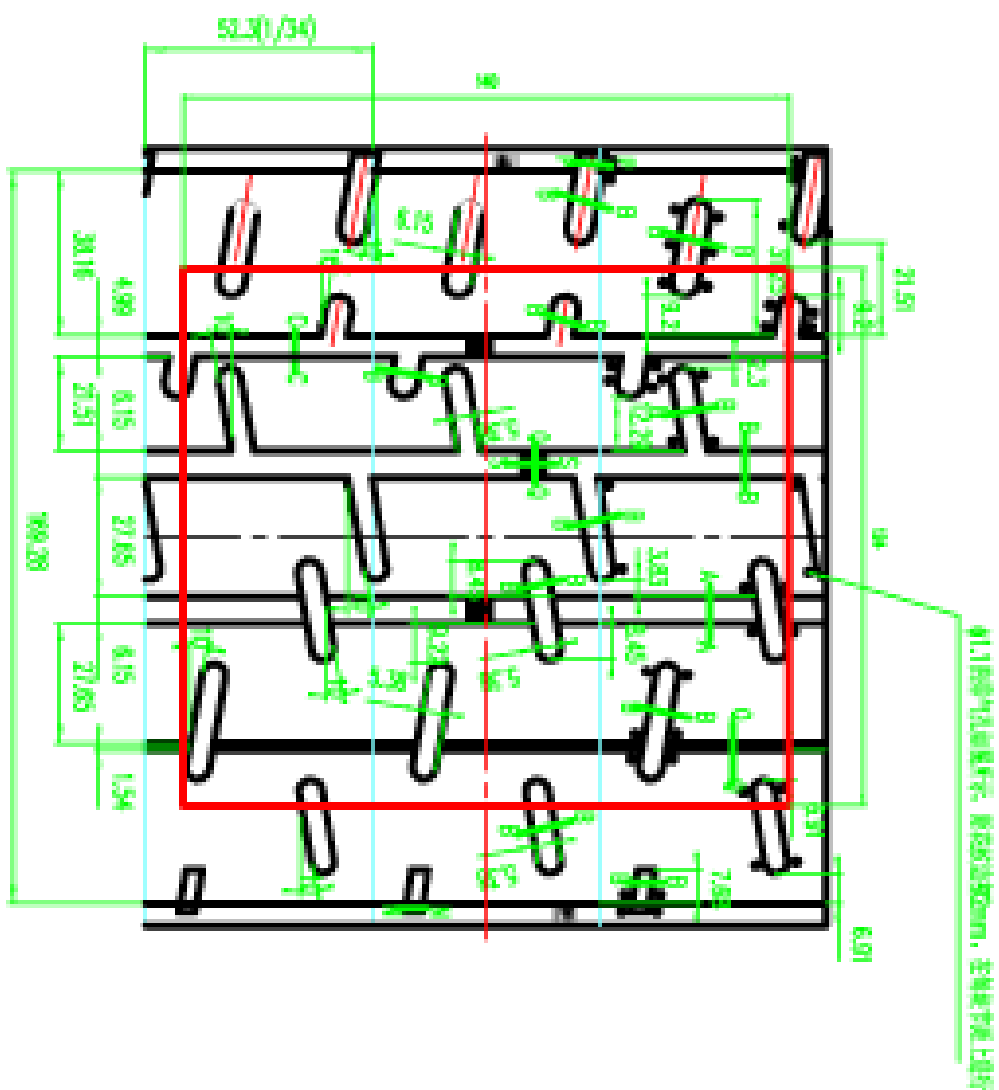


15" – 195/50-15

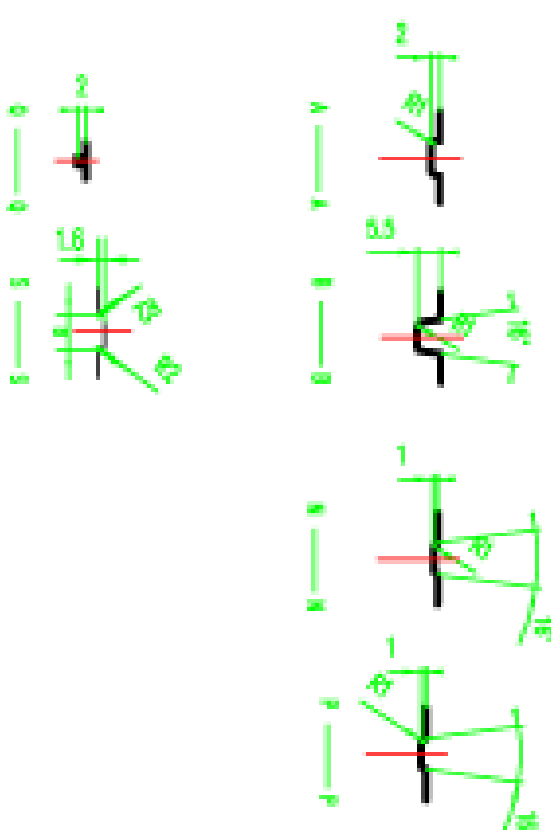


注：TWI字高5mm, 线粗1mm, 线高0.8mm, 圆周六等分。
5389.463 / (133*140) *100=28.94%

序号	日期	名称	图号
设计		PATTERN	195/50R15 DM1-RC
制图			
审核			
工艺			
批准			
		DMACK TYRES LIMITED	



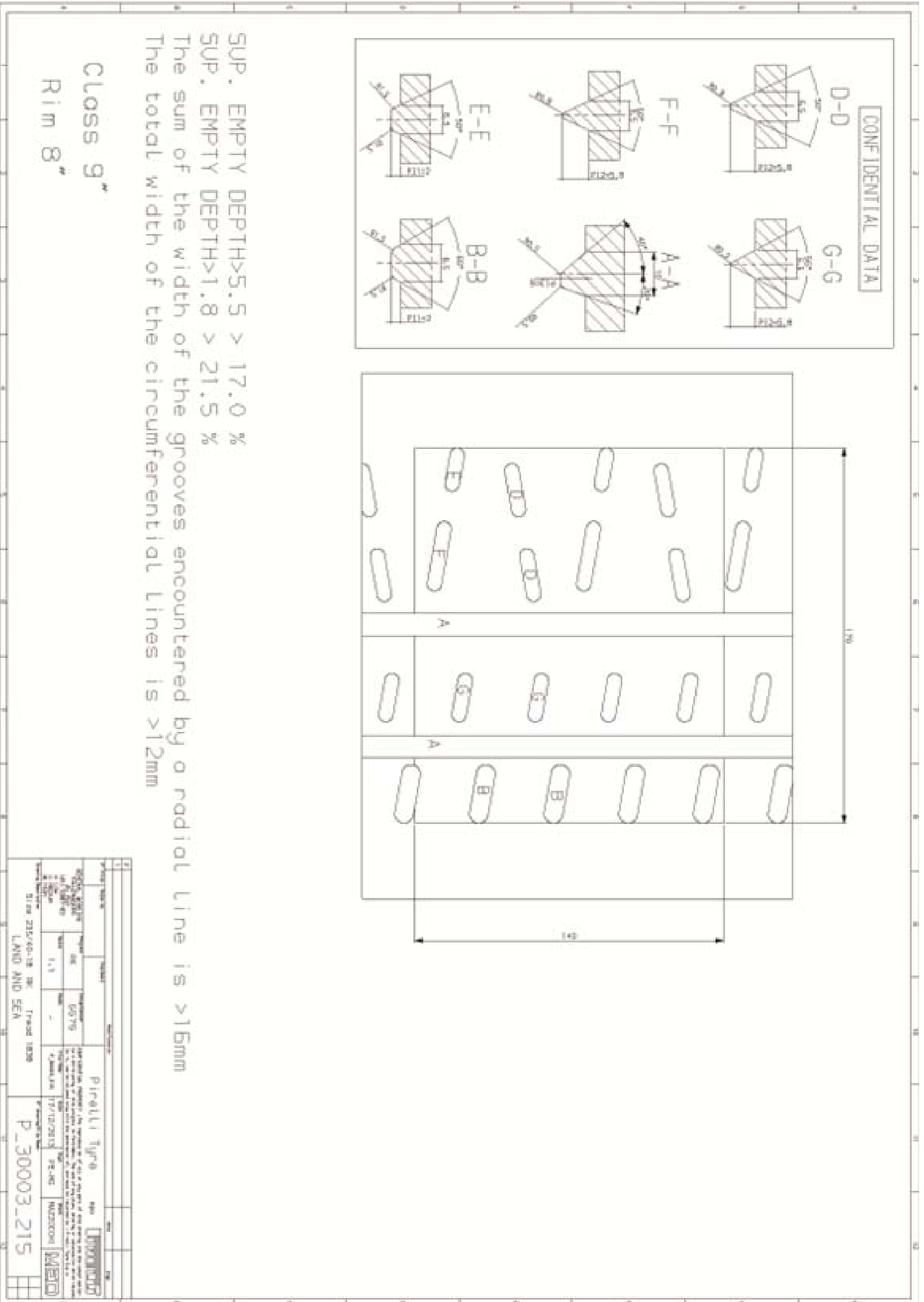
注：TWI 字高 3mm，线粗 1mm，线高 0.8mm，圆周六等分



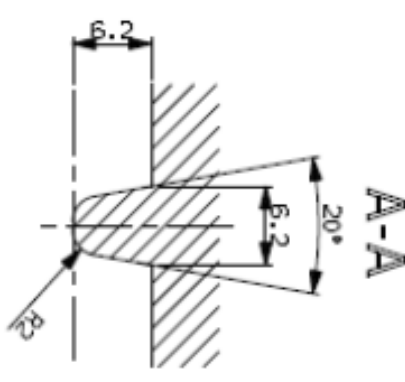
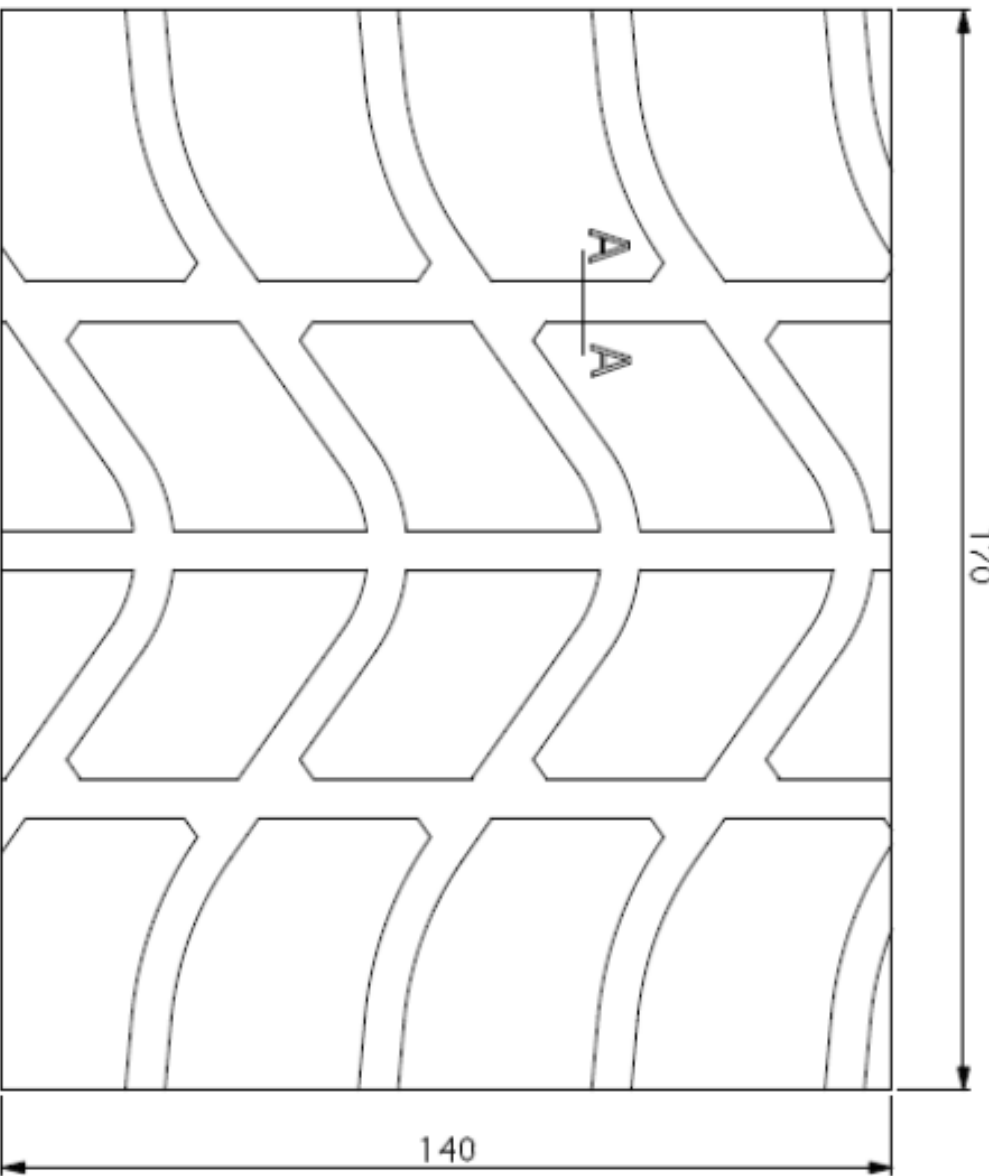
GROOVES SURFACE AREA=4292.808;
CONTROL SURFACE 17360;
4292.808/17360=24.728%

设计	姓名	日期	名称	图号
制图			THREAD	175/60R14 DMIT-RC
校对			材料	重量
审核				比例
工艺				数量
批准			DMACK TYRES LTD	
				备注

18" – 235/40-18

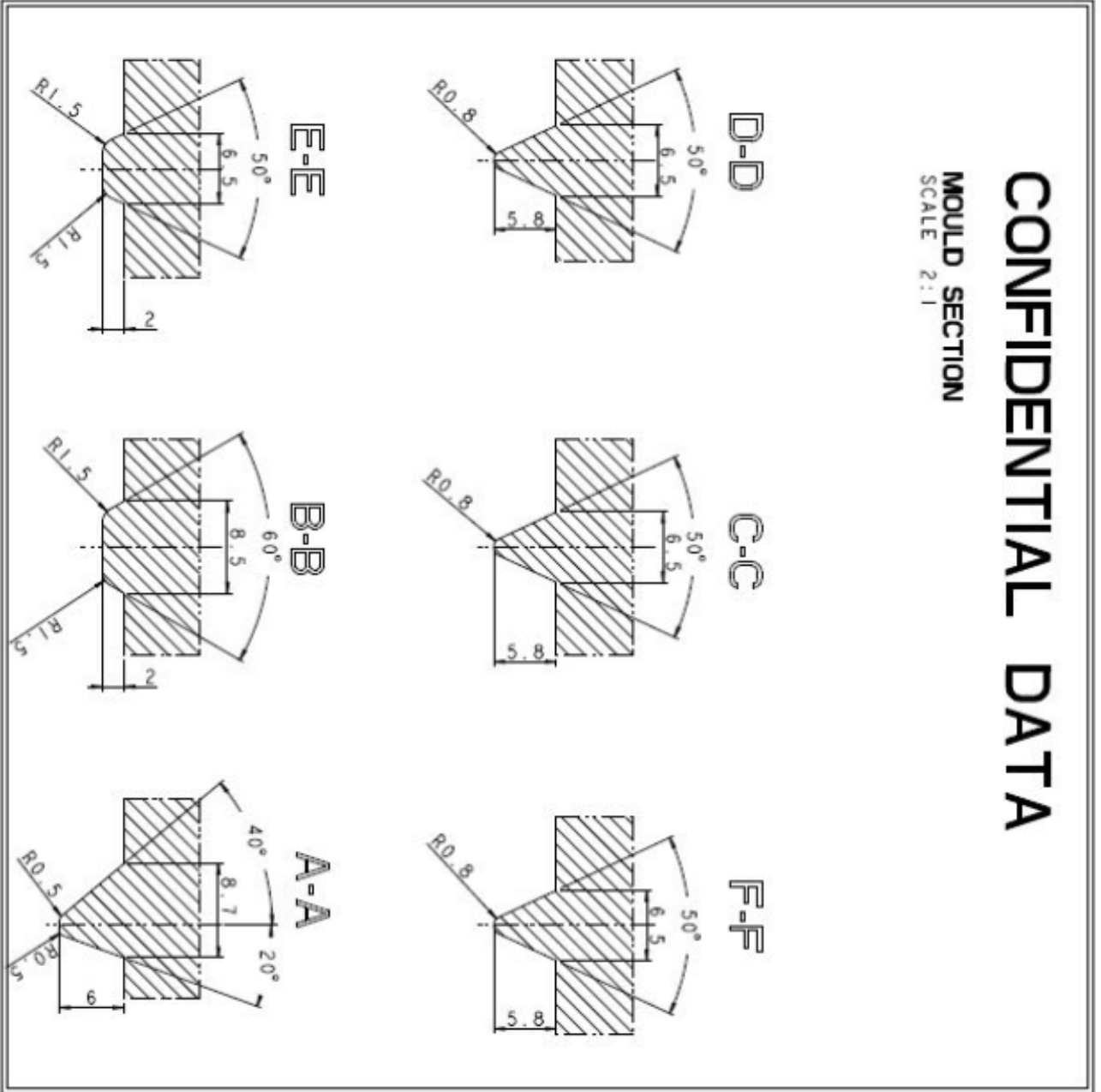


17" – 235/40 - 18

<div style="border: 1px solid black; padding: 10px; margin-bottom: 20px;"> <p style="text-align: center; font-weight: bold; font-size: 1.2em;">CONFIDENTIAL DATA</p> <p style="text-align: center;">MOULD SECTION SCALE 2:1</p>  <p style="text-align: center; font-weight: bold;">ALL THE GROOVES HAVE THE SAME SECTION</p> </div> <div style="margin-bottom: 20px;"> <p>SUP. EMPTY DEPTH > 5.5mm > 27.5%</p> <p>The sum of the width of the grooves encountered by a radial line is > 16mm</p> <p>The sum of the width of the grooves encountered by a circumferential line is > 4mm</p> <p>Three (3) circumferential lines</p> <p>The total width of circumferential lines is > 12mm</p> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="font-size: 1.5em; font-weight: bold;">CLASS 9"</p> <p style="font-size: 1.5em; font-weight: bold;">RIM 8"</p> </div> <div style="width: 50%; text-align: right;">  <p style="text-align: right;">AREA SCALE 1:1</p> </div> </div> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 20px;"> <tr> <td style="width: 10%; text-align: center;">1</td> <td style="width: 10%;">W/ TITRE</td> <td style="width: 10%;">NOMINALE</td> <td style="width: 10%;">TREATMENT</td> <td style="width: 10%;">MATERIALE</td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> </tr> <tr> <td style="text-align: center;">2</td> <td colspan="2"> <p>GENERAL WORKING INSTRUCTIONS</p> <p>1. AS PER UNIT 5387-63</p> <p>2. LOI</p> <p>3. MEDIUM</p> <p>4. M. RICH</p> </td> <td style="text-align: center;">Project</td> <td style="text-align: center;">Project</td> <td style="text-align: center;">Project</td> <td colspan="4"> <p>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 part, drawing or information which makes it possible to obtain the product is forbidden. The use of any part, drawing or information which makes it possible to obtain the product is forbidden. The use of any part, drawing or information which makes it possible to obtain the product is forbidden.</p> </td> </tr> <tr> <td></td> <td colspan="2"> <p>Size 235/40-18 RW</p> <p>LAND & SEA</p> </td> <td style="text-align: center;">5575</td> <td style="text-align: center;">1.1</td> <td style="text-align: center;">-</td> <td colspan="4"> <p>Pirelli Tyre</p> <p>spc ORREON</p> <p>DATE 01/08/2016</p> <p>SIGNATURE PE-HG</p> <p>HAZZOCCHI</p> <p>MEMO</p> </td> </tr> <tr> <td></td> <td colspan="2"> <p>Tread Separation</p> <p>Size 235/40-18 RW</p> <p>LAND & SEA</p> </td> <td style="text-align: center;">Tread 2044</td> <td colspan="2"> <p>P_30010_028_00</p> </td> <td colspan="4"> <p>P_30010_028</p> </td> </tr> </table>										1	W/ TITRE	NOMINALE	TREATMENT	MATERIALE						2	<p>GENERAL WORKING INSTRUCTIONS</p> <p>1. AS PER UNIT 5387-63</p> <p>2. LOI</p> <p>3. MEDIUM</p> <p>4. M. RICH</p>		Project	Project	Project	<p>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 part, drawing or information which makes it possible to obtain the product is forbidden. The use of any part, drawing or information which makes it possible to obtain the product is forbidden. The use of any part, drawing or information which makes it possible to obtain the product is forbidden.</p>					<p>Size 235/40-18 RW</p> <p>LAND & SEA</p>		5575	1.1	-	<p>Pirelli Tyre</p> <p>spc ORREON</p> <p>DATE 01/08/2016</p> <p>SIGNATURE PE-HG</p> <p>HAZZOCCHI</p> <p>MEMO</p>					<p>Tread Separation</p> <p>Size 235/40-18 RW</p> <p>LAND & SEA</p>		Tread 2044	<p>P_30010_028_00</p>		<p>P_30010_028</p>			
1	W/ TITRE	NOMINALE	TREATMENT	MATERIALE																																													
2	<p>GENERAL WORKING INSTRUCTIONS</p> <p>1. AS PER UNIT 5387-63</p> <p>2. LOI</p> <p>3. MEDIUM</p> <p>4. M. RICH</p>		Project	Project	Project	<p>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 part, drawing or information which makes it possible to obtain the product is forbidden. The use of any part, drawing or information which makes it possible to obtain the product is forbidden. The use of any part, drawing or information which makes it possible to obtain the product is forbidden.</p>																																											
	<p>Size 235/40-18 RW</p> <p>LAND & SEA</p>		5575	1.1	-	<p>Pirelli Tyre</p> <p>spc ORREON</p> <p>DATE 01/08/2016</p> <p>SIGNATURE PE-HG</p> <p>HAZZOCCHI</p> <p>MEMO</p>																																											
	<p>Tread Separation</p> <p>Size 235/40-18 RW</p> <p>LAND & SEA</p>		Tread 2044	<p>P_30010_028_00</p>		<p>P_30010_028</p>																																											

CONFIDENTIAL DATA

MOULD SECTION
SCALE 2:1



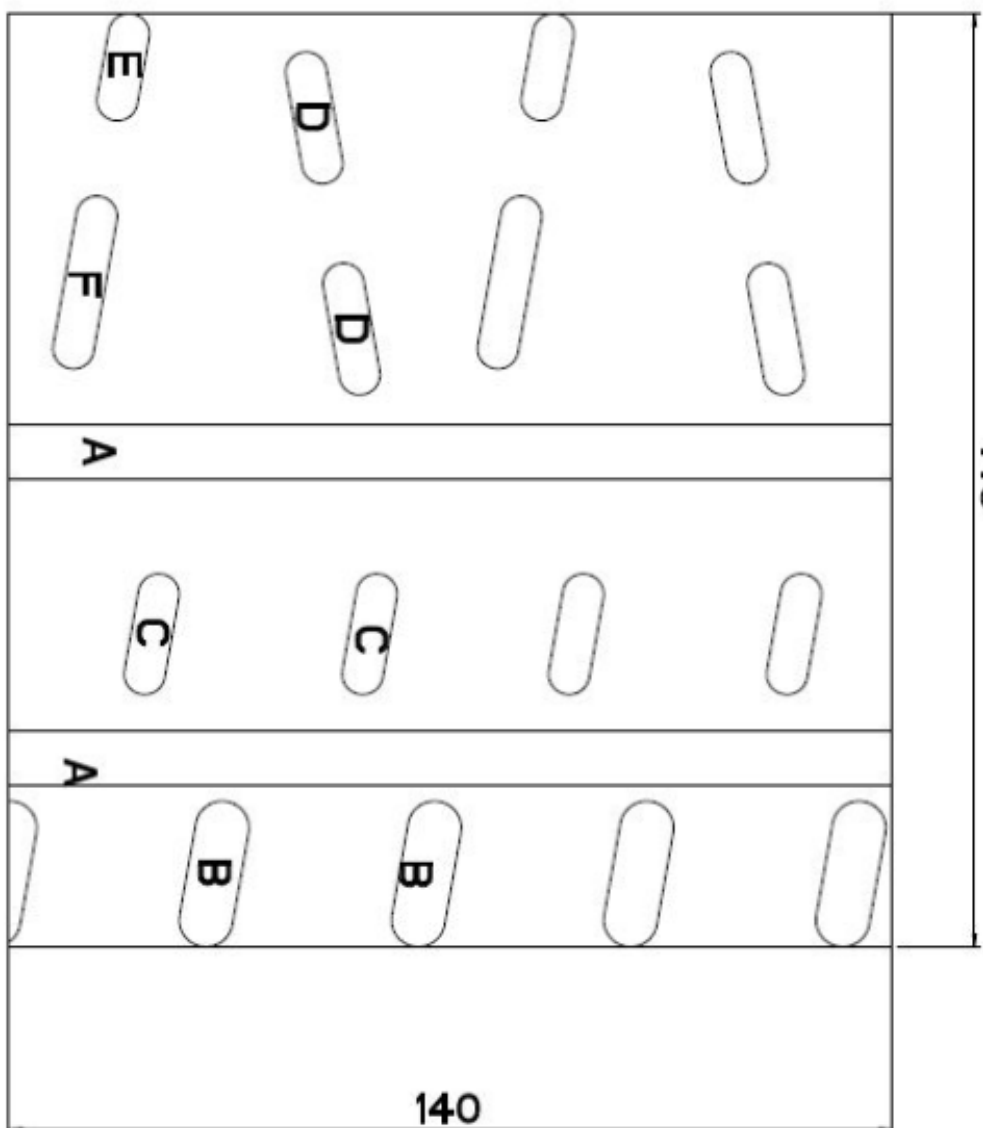
SUP. EMPTY DEPTH > 5.5 > 17%
 SUP. EMPTY DEPTH > 1.8 > 21.5%
 The sum of the width of the grooves encountered by a radial line is > 12mm
 The total width of circumferential lines is > 16mm

148

AREA
SCALE 1:1

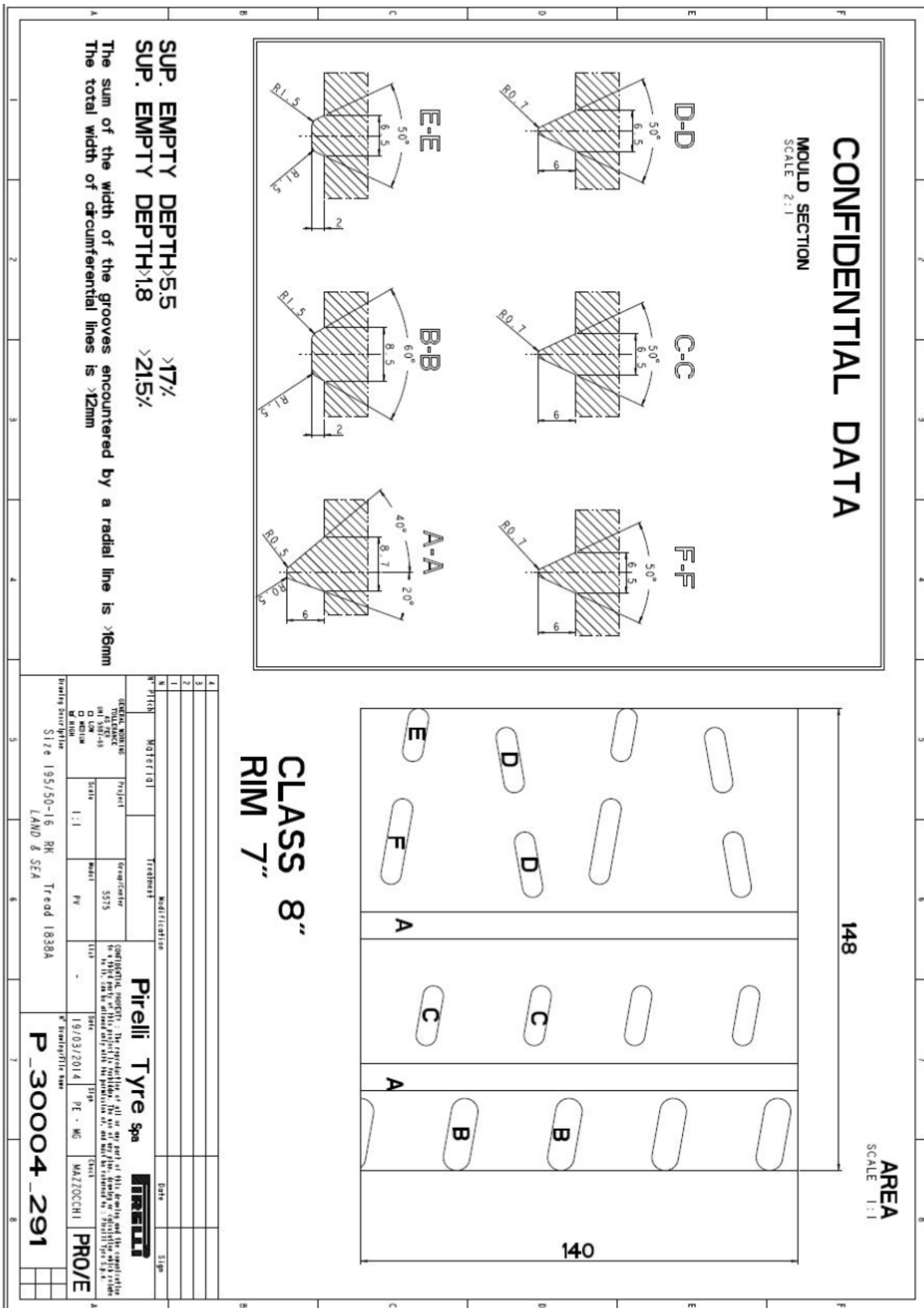
140

CLASS 8"
RIM 7"



1	2	3	4
<p>GENERAL INFORMATION</p> <p>Project: Pirelli Tyre spa</p> <p>Scale: 1:1</p> <p>Model: PV</p> <p>Material: PE - MG</p> <p>Check: MAZZOCCHI</p> <p>Date: 19/03/2014</p> <p>Sign: PRO/E</p>			
<p>CONSTRUCTIONAL PROJECT: The reproduction of all or any part of this drawing and the compilation of a new drawing from this project, without the permission of Pirelli Tyre S.p.A. is strictly prohibited.</p>			
<p>Size 205/45-17 RK Tread 1838</p> <p>LAND & SEA</p> <p>P_30004_292</p>			

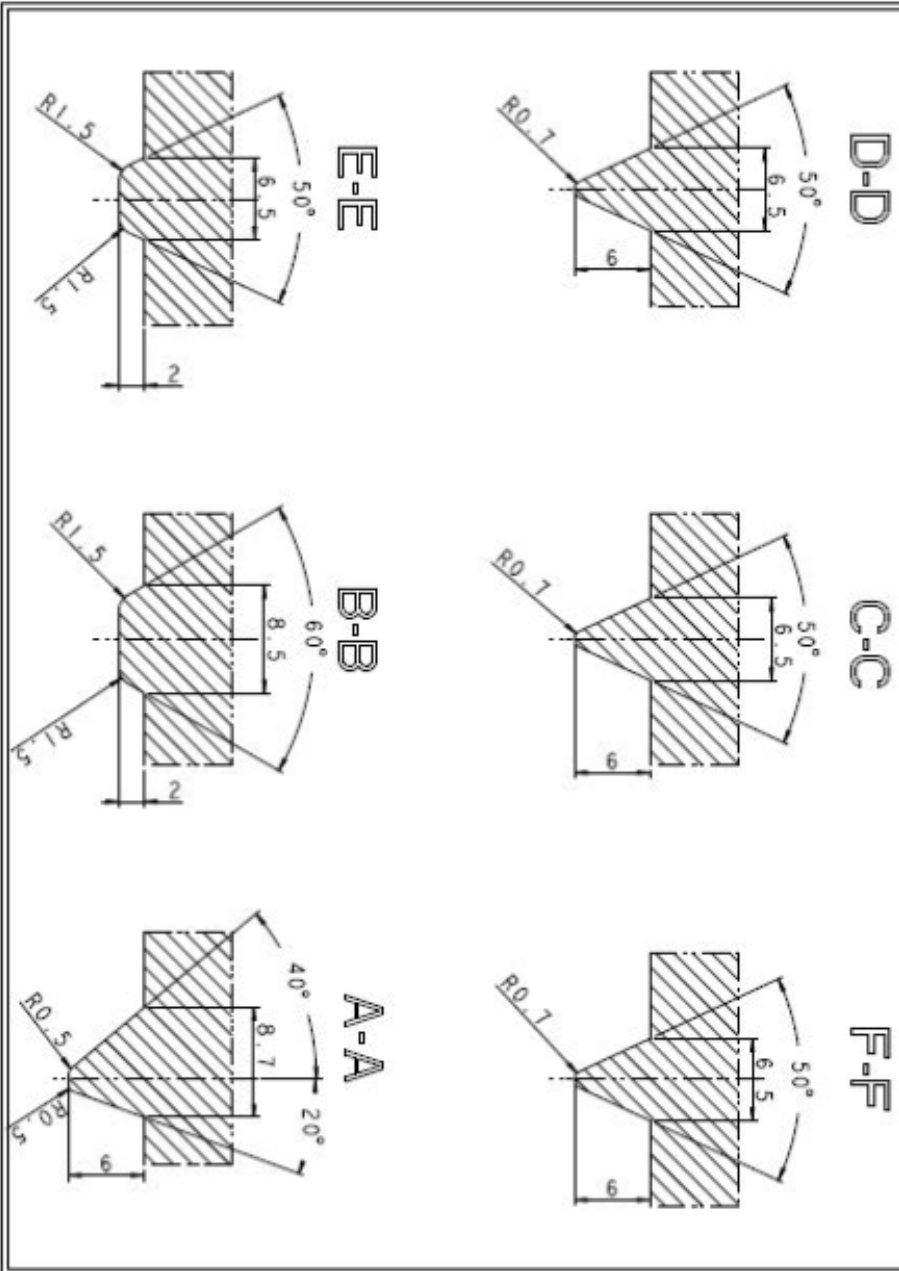
16" - 195/50-16



15" - 195/50-15

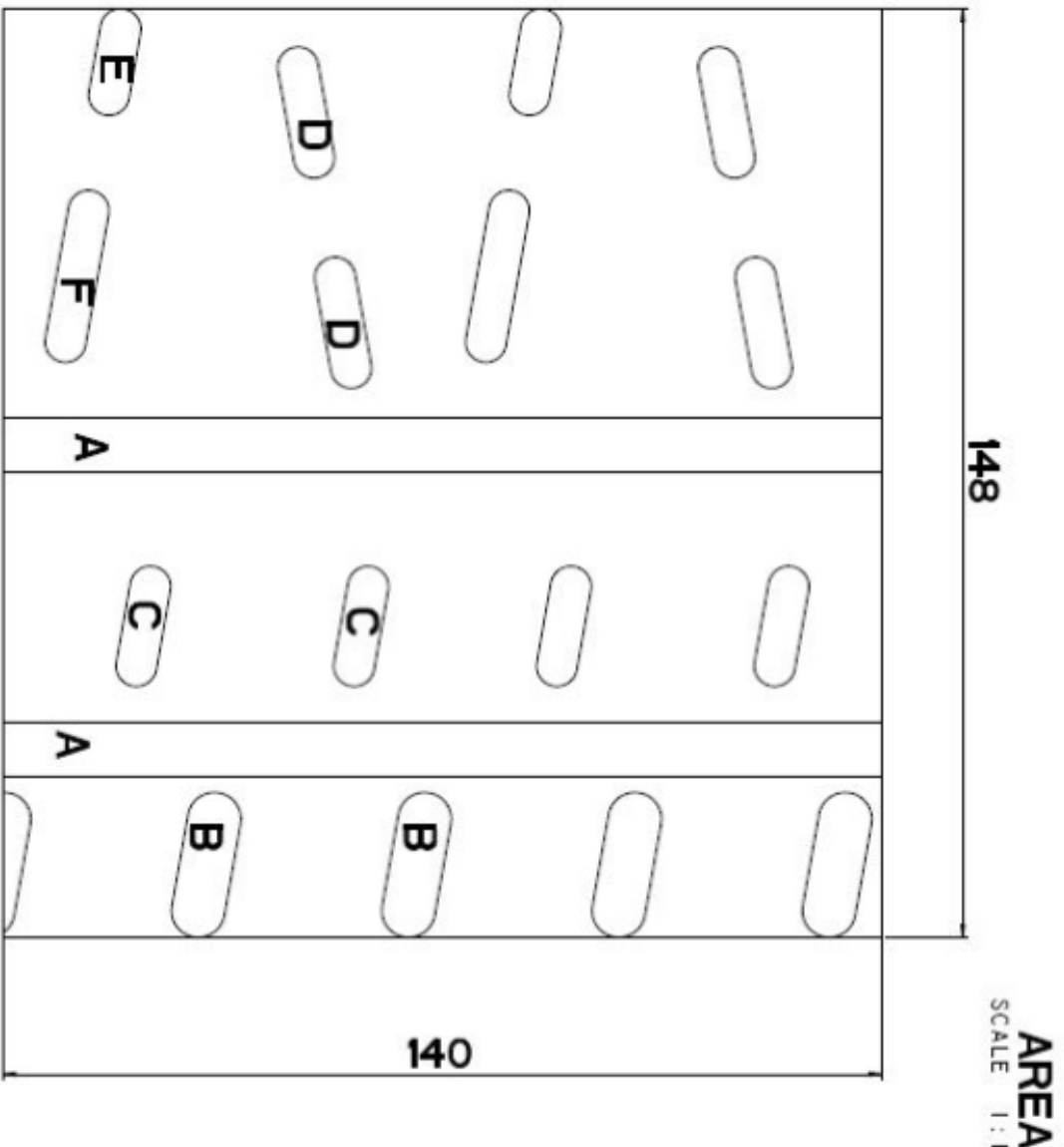
CONFIDENTIAL DATA

MOULD SECTION
SCALE 2:1



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

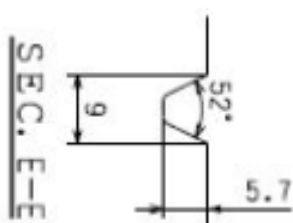
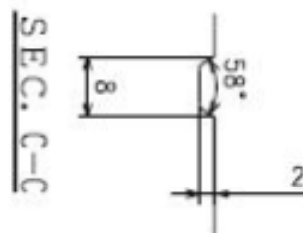
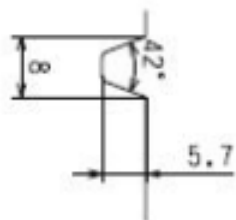
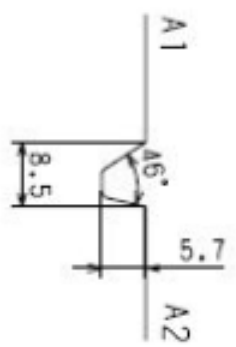
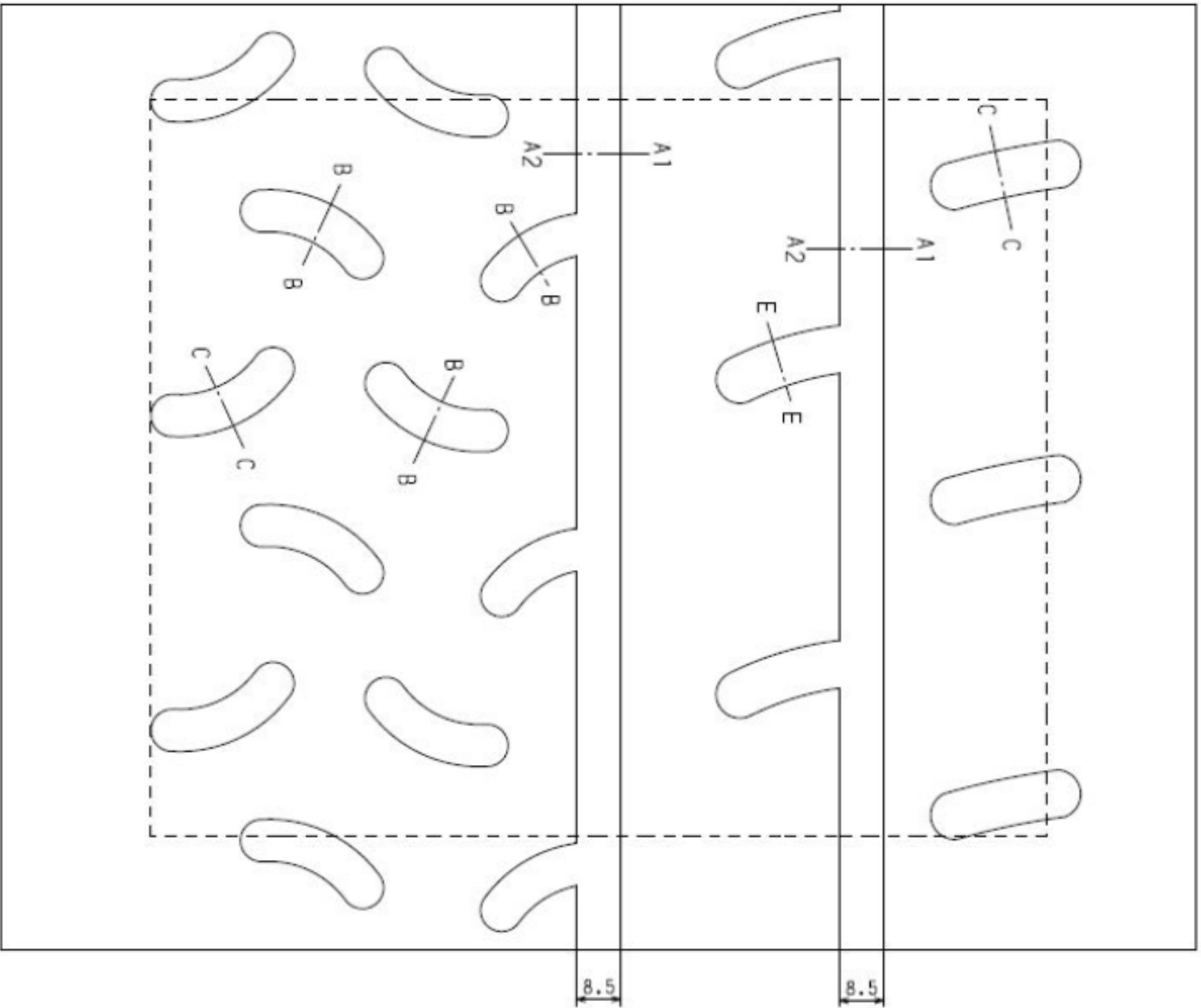
The sum of the width of the grooves encountered by a radial line is > 16mm
The total width of circumferential lines is > 12mm



CLASS 8"
RIM 7"

4									
3									
2									
1									
N° FITCH	Material	Treatment	Modification	Date	Sign				
GENERAL WORKING TOLERANCE Int. 3002-45		Project	Drawn/center	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 derives from this, can be allowed only with the permission of, and must be returned to, Pirelli Tyre S.p.A.					
<input type="checkbox"/> LOW	Scale	1:1	Mat.1	PV	Tit.1	Date	19/03/2014	Sign	PE - MG
<input type="checkbox"/> MEDIUM									MAZZOCCHI
<input type="checkbox"/> HIGH									PRO/E
Drawing Description		Size 195/50-15 RK Tread 1838A		Pirelli Tyre spa					
LAND & SEA				P_30004_290					

18" – 235/40-18



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

----- Control area 170X140

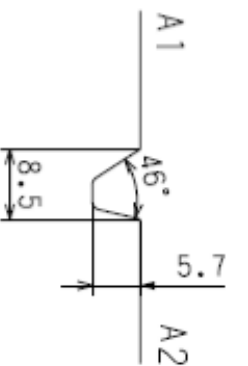
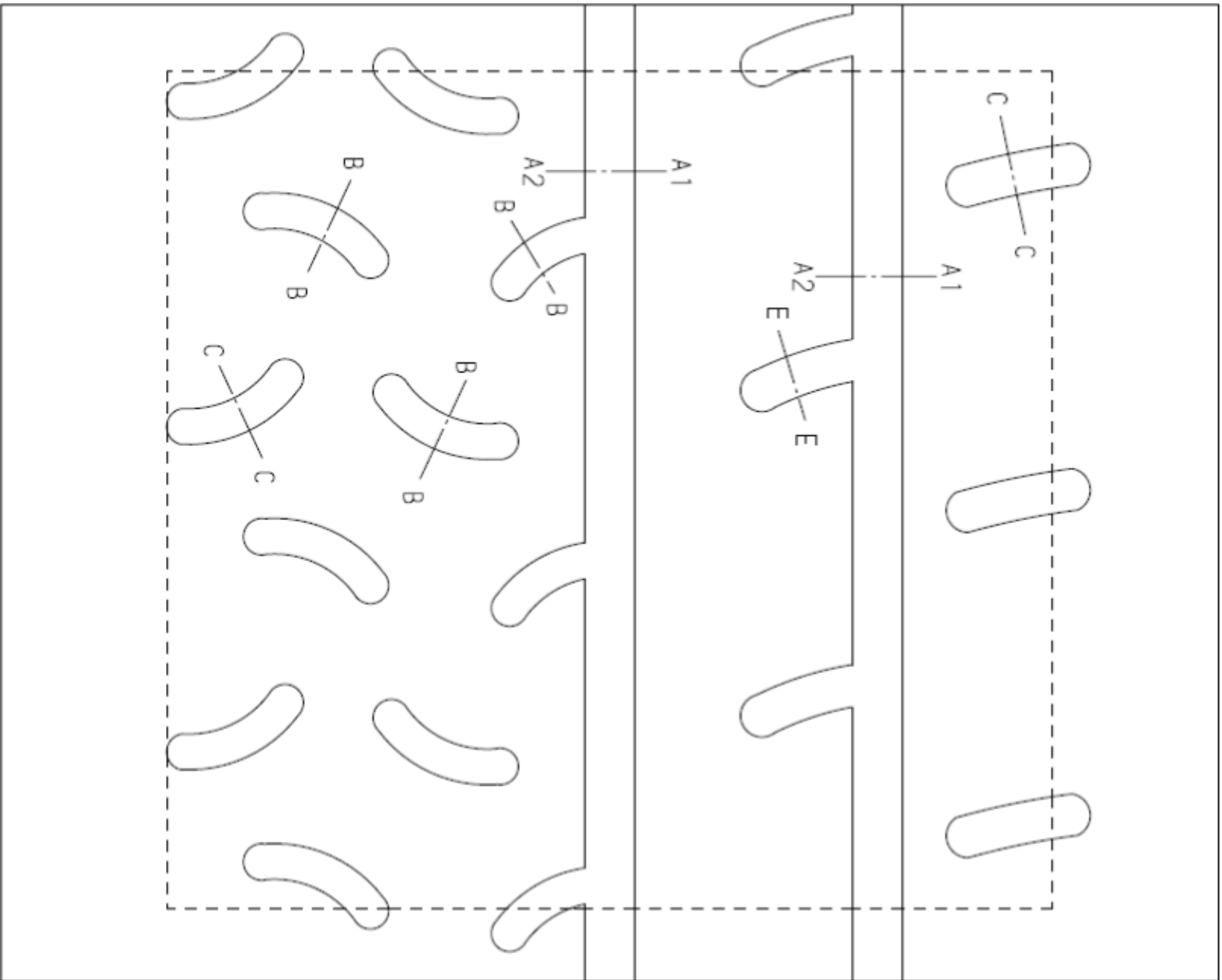
Tyre weight 9.7kg

PRODUCT NAME
YOKOHAMA ADVAN A051T

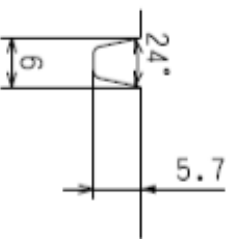
PATTERN NAME
A051A

SIZE 210/650R18

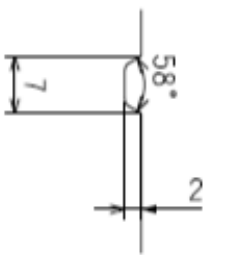
17" – 190/625-17



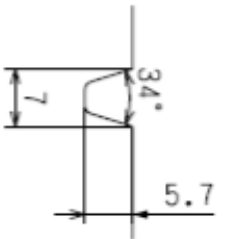
SEC. A1-A2



SEC. B-B



SEC. C-C



SEC. E-E

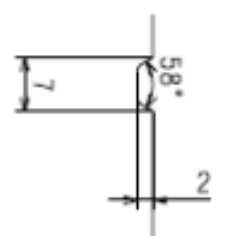
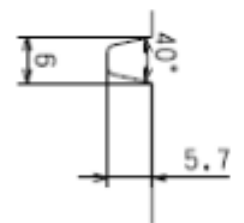
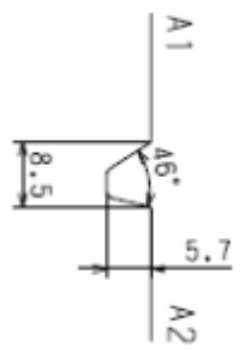
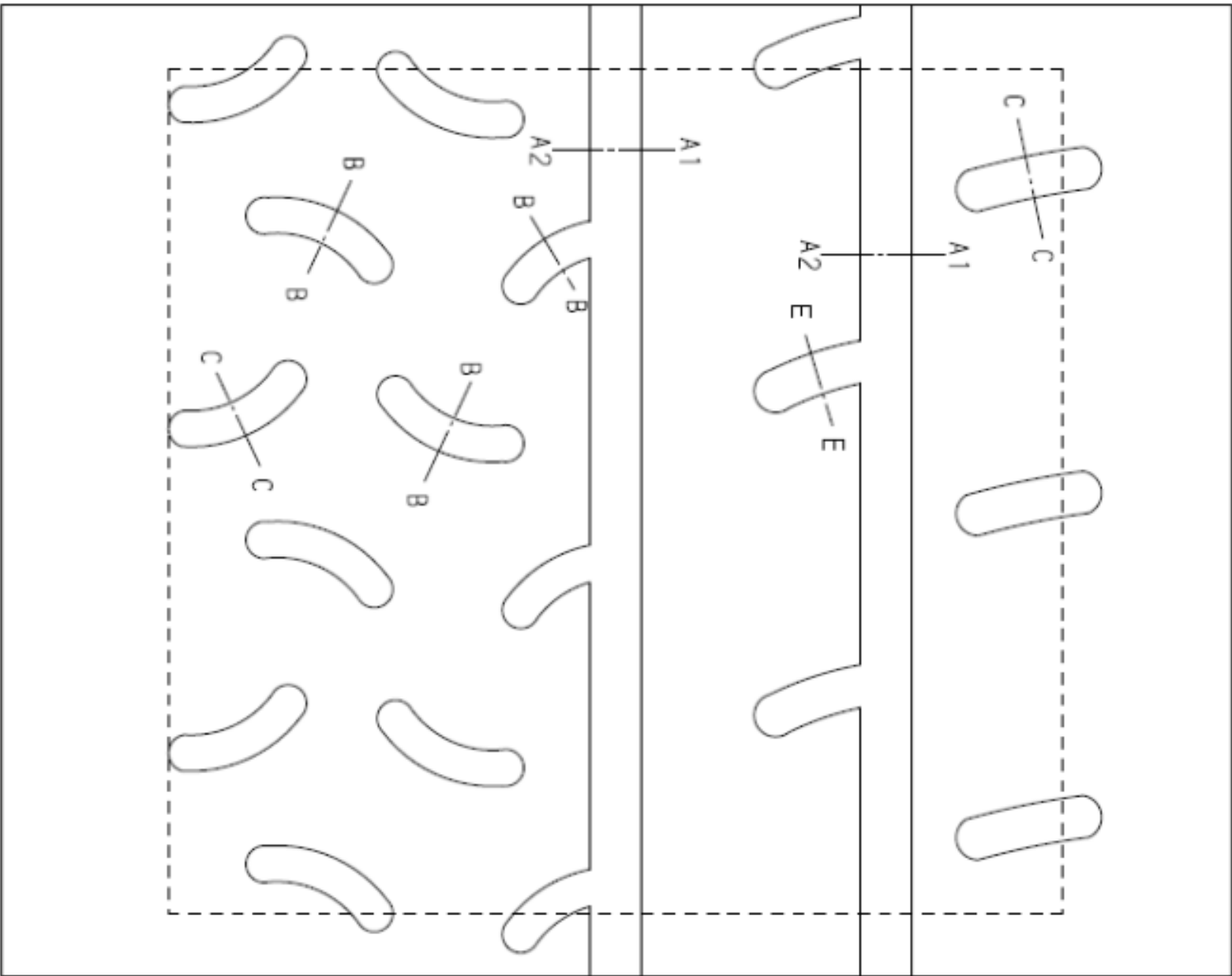
In the control area
 5.5mm grooves-18.2%
 Total grooves-22.0%

----- Control area 148X140

PRODUCT NAME
YOKOHAMA ADVAN A051T

PATTERN NAME
A051A

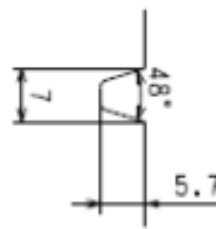
SIZE 190/625R17



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%

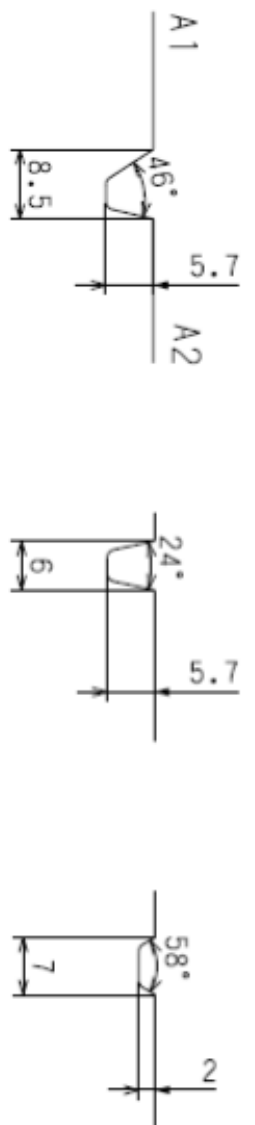
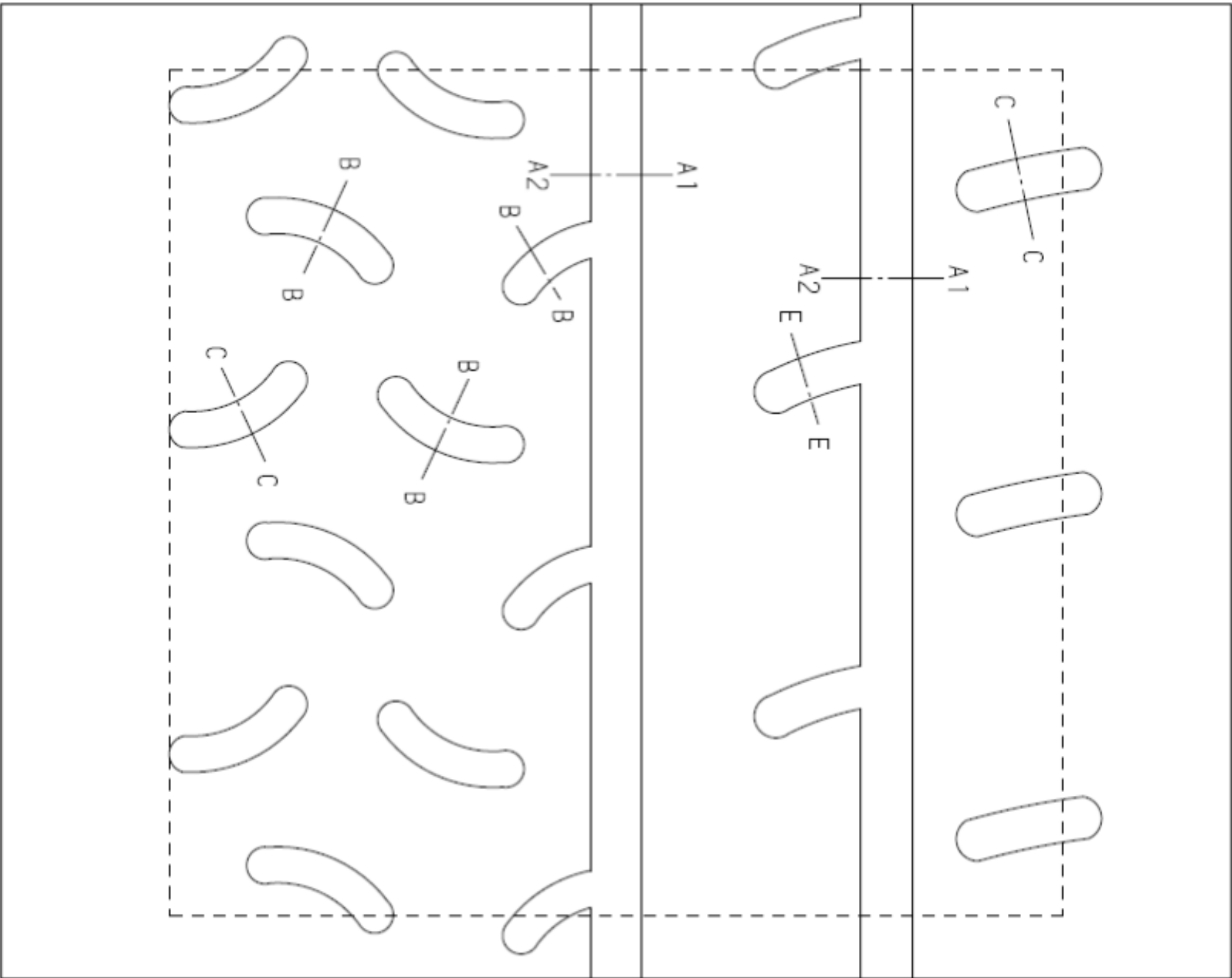
----- Control area 170X140

PRODUCT NAME
YOKOHAMA ADVAN A051T

PATTERN NAME
A051A

SIZE 210/625R17

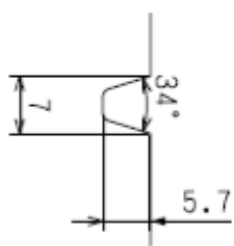
16" – 190/600R16



SEC. A1-A2

SEC. B-B

SEC. C-C



SEC. E-E

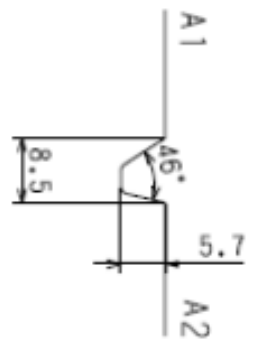
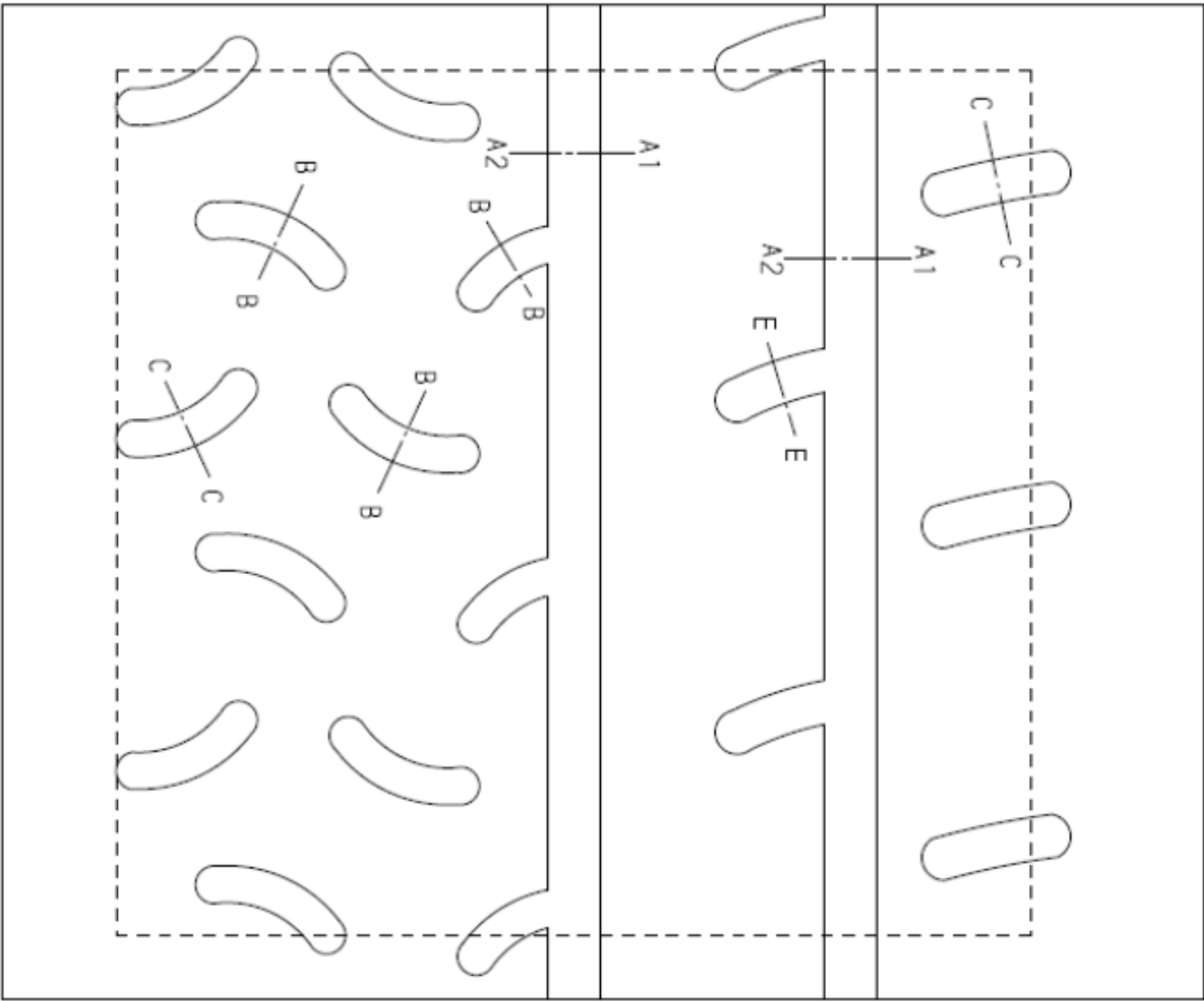
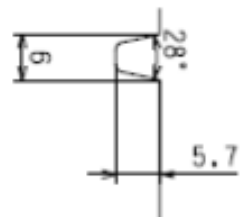
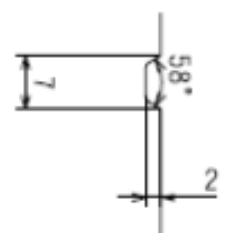
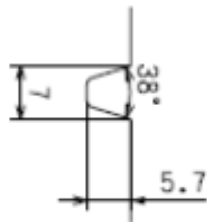
In the control area
 5.5mm grooves-18.1%
 Total grooves-21.9%

----- 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

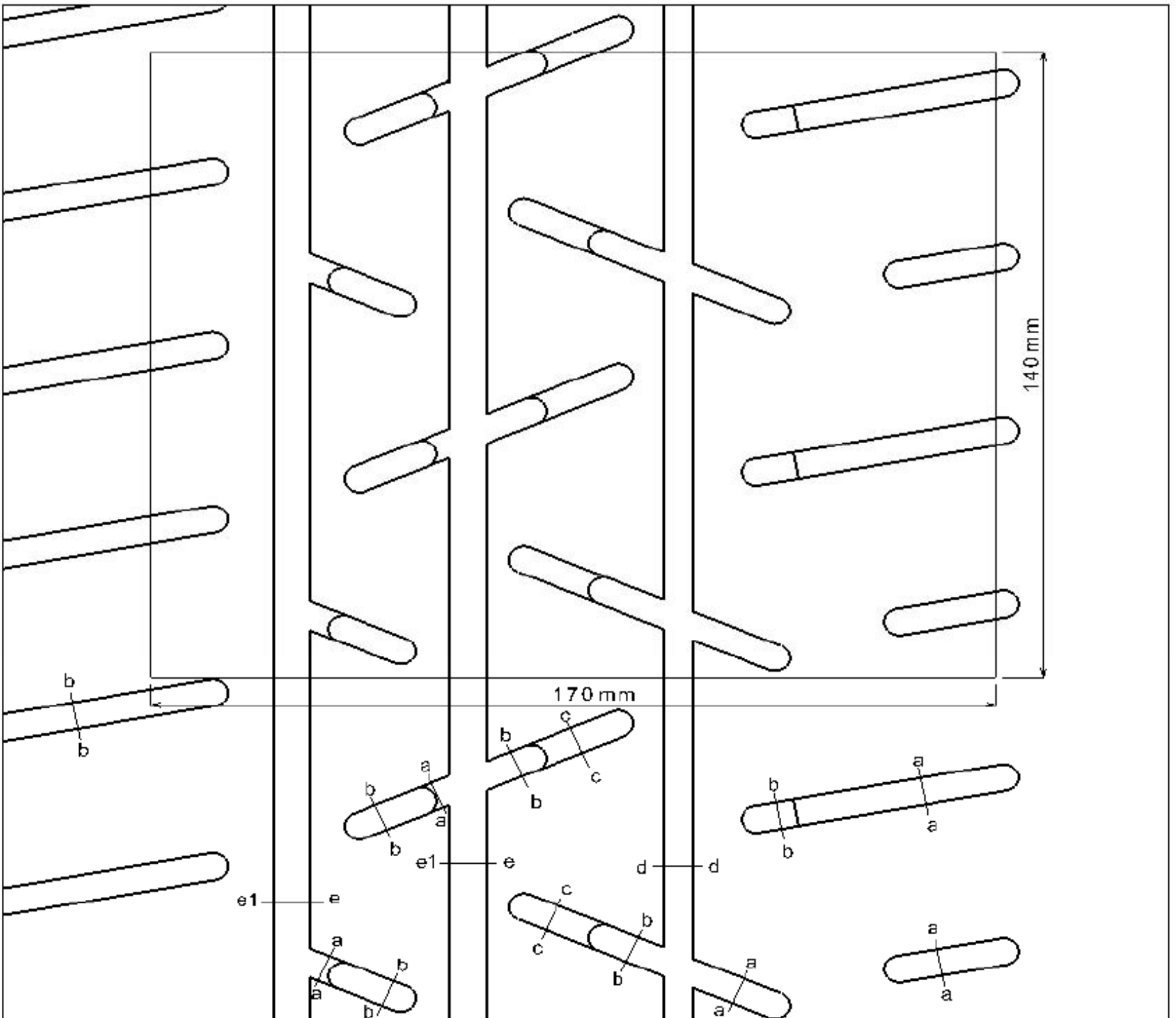
PRODUCT NAME
YOKOHAMA ADVAN A051T

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%

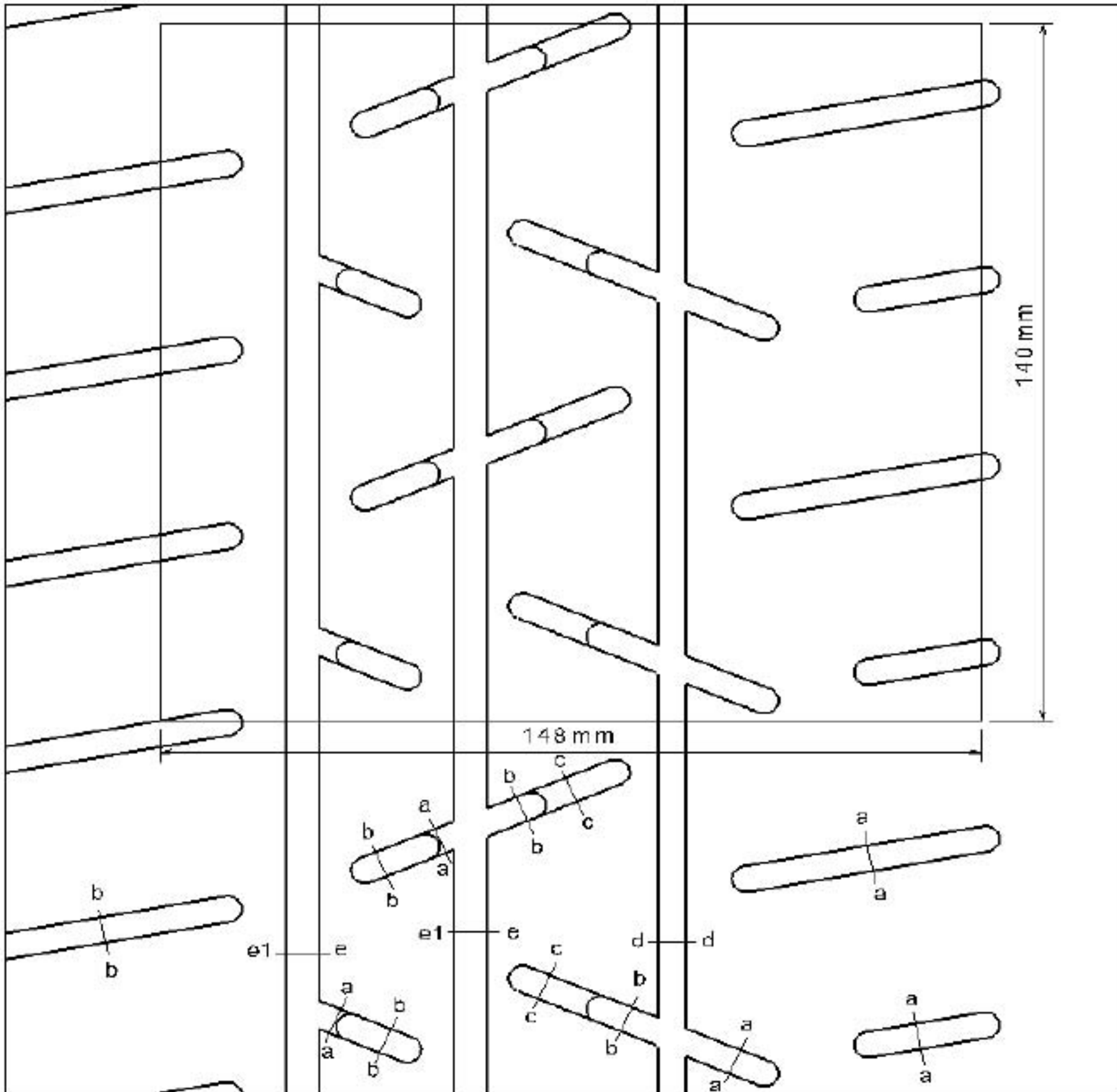
Empty Depth > 1.8mm : 23.30%

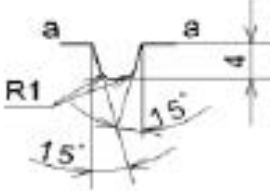
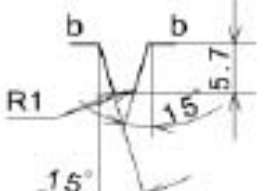
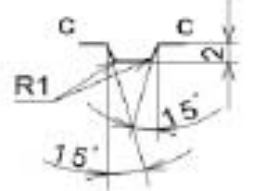
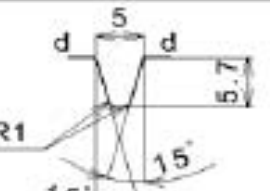
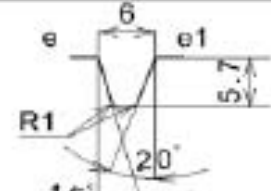
GROOVE SURFACE AREA = 554540 mm²

Control Surface = 23800 mm²

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%

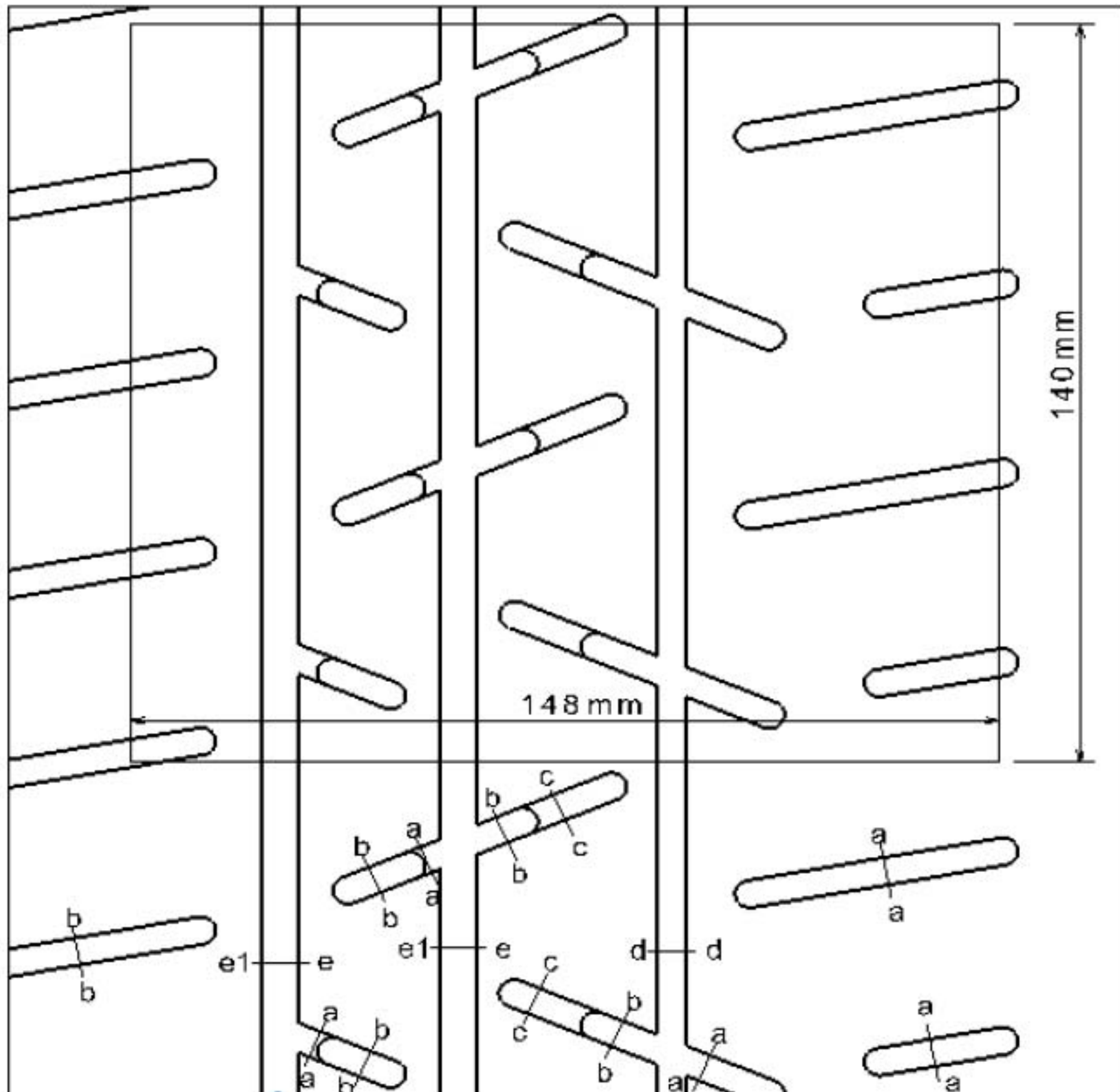
8

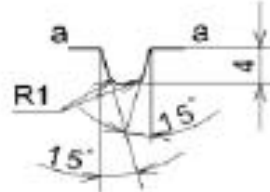
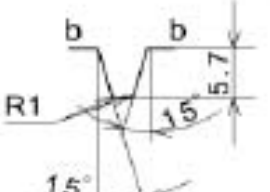
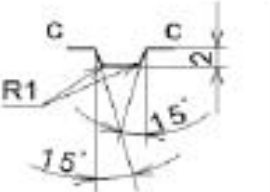
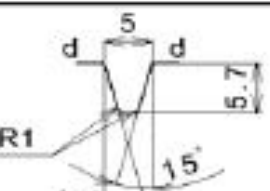
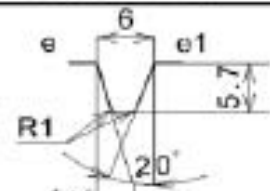
GROOVE SURFACE AREA = 353483.2 mm²

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

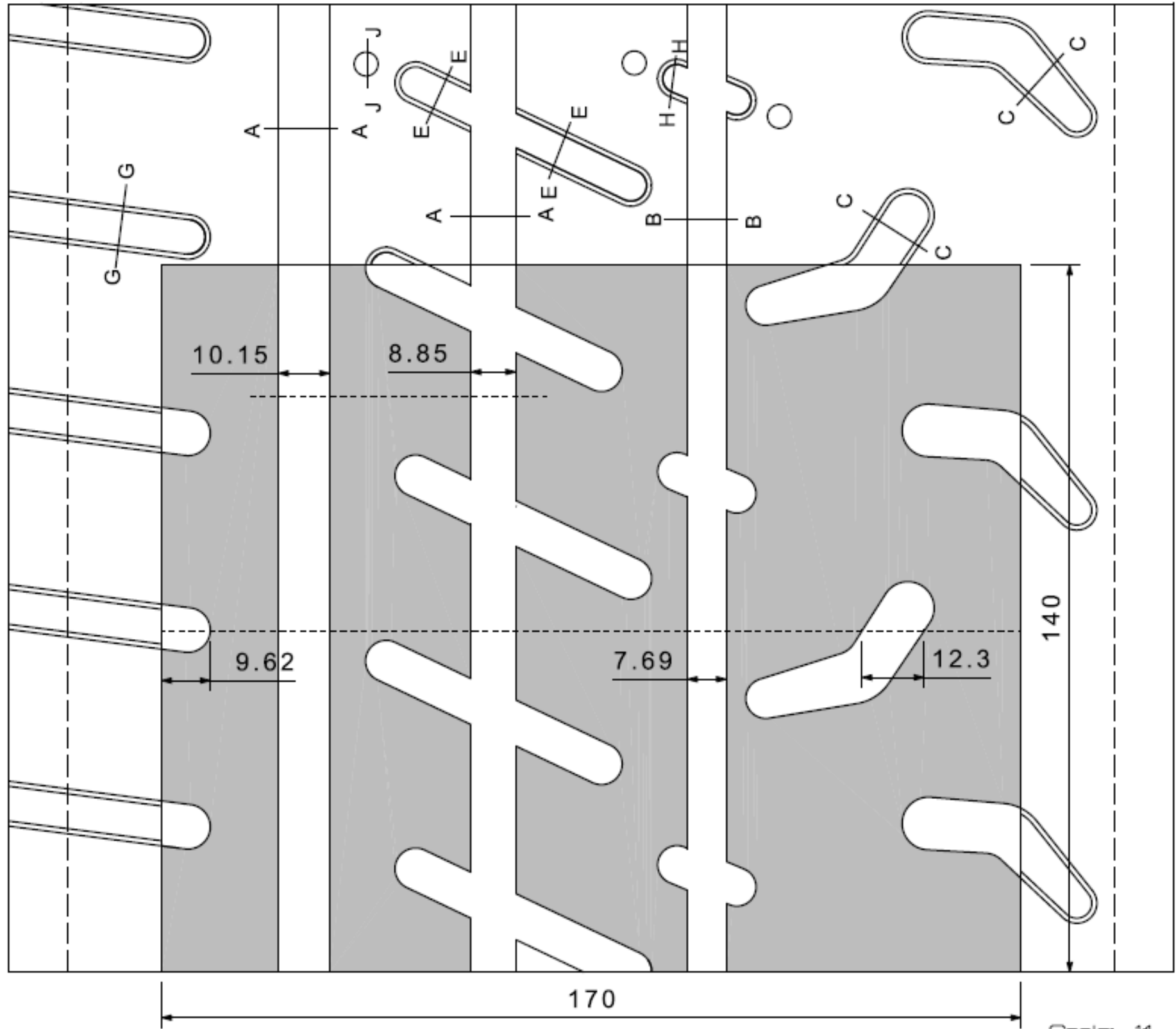
18" - 210/645R18

KUMHO TYRES

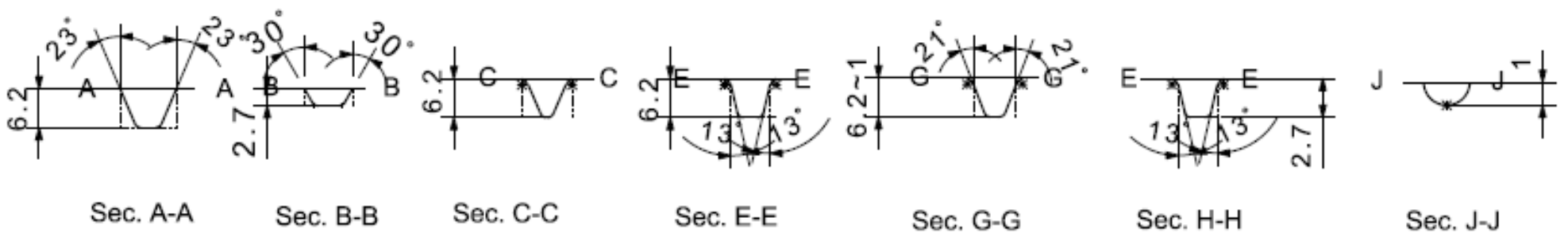


Moulded tyre for FIA homologation
 Size : 210/645R18
 Pattern : TM01

- 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

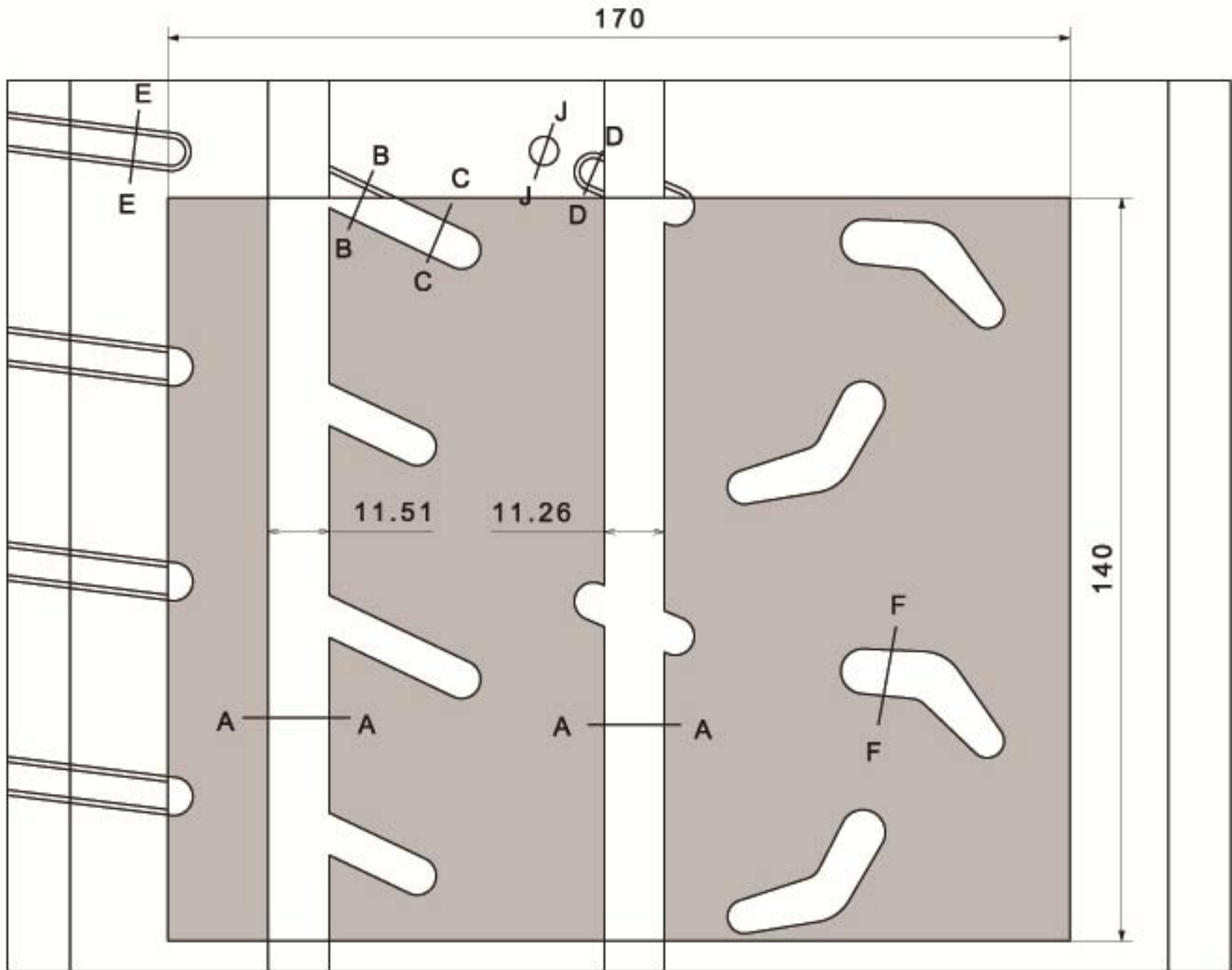
Moulded tyre for FIA homologation

Size : 210/645R18

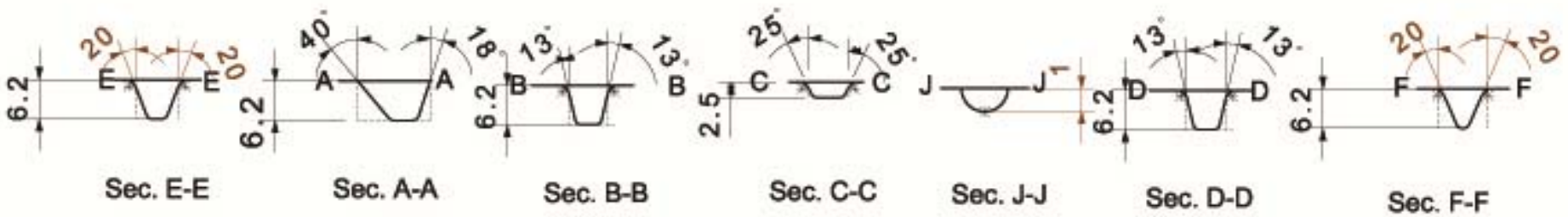
Pattern : TM02

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



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%



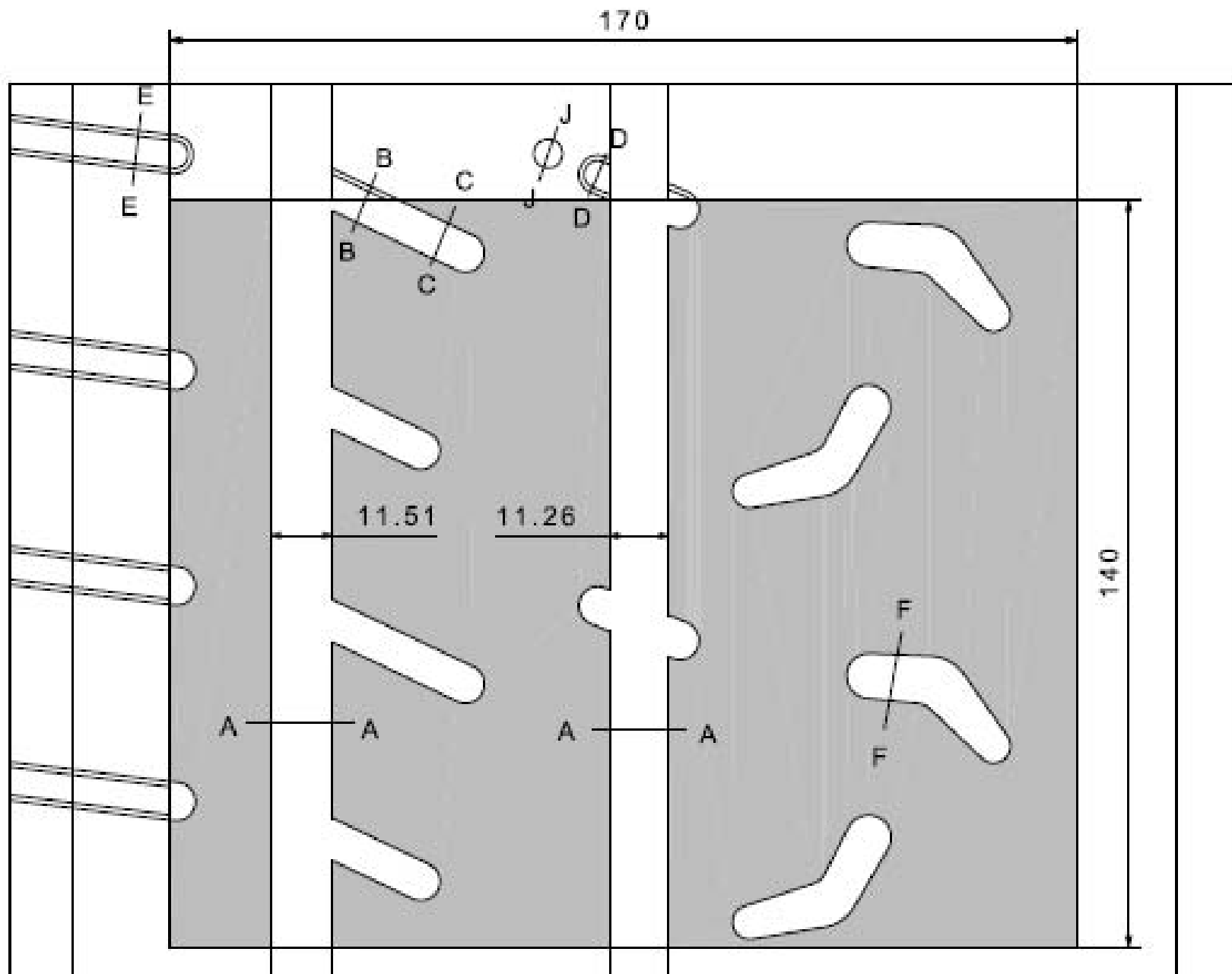
KUMHO TIRE

Moulded tyre for FIA homologation

Size : 210/645R18

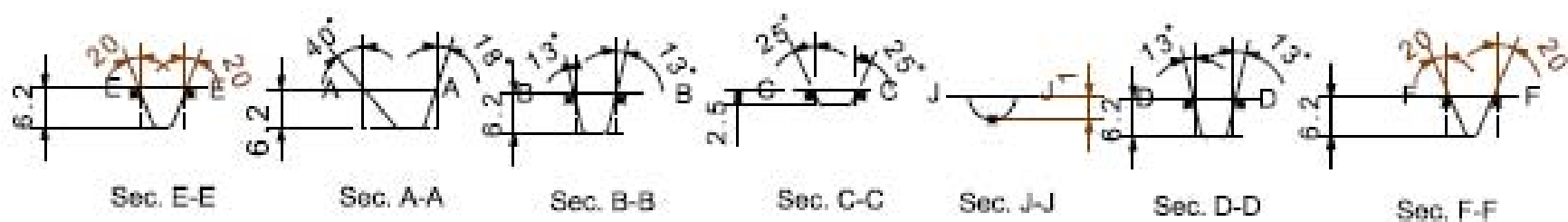
Pattern : TM02

- 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

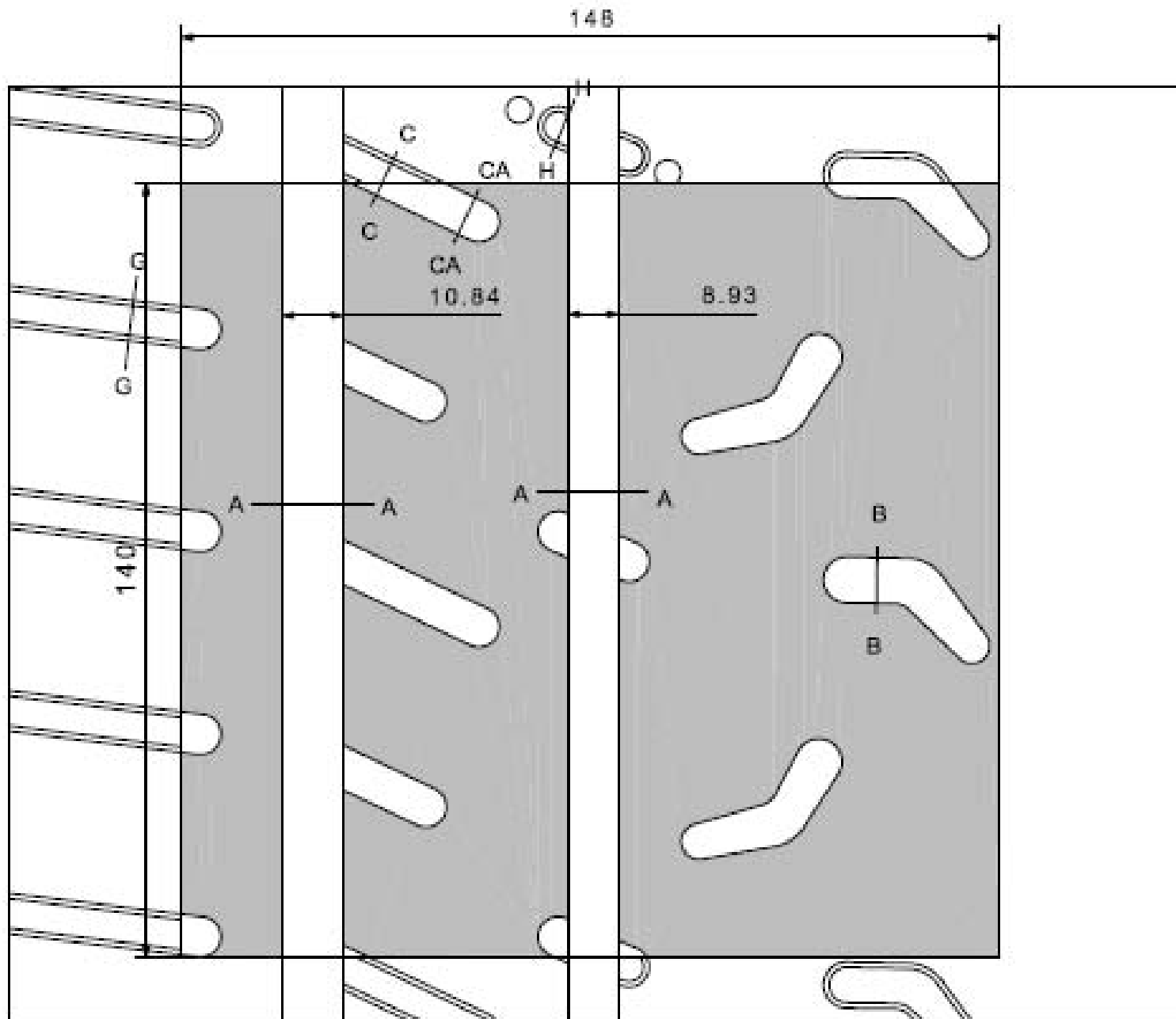
Moulded tyre for FIA homologation

Size : 190/630 R17

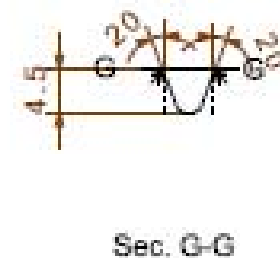
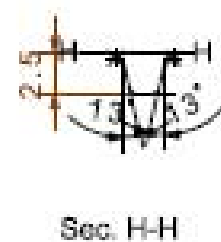
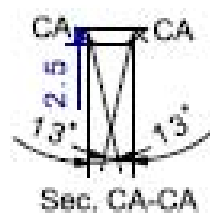
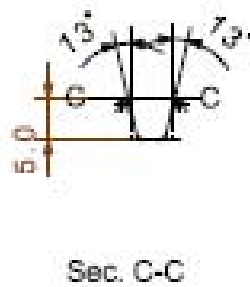
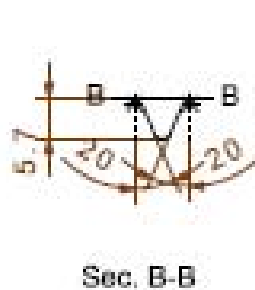
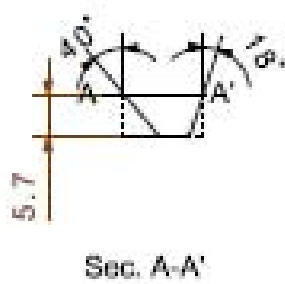
Pattern : TM02

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



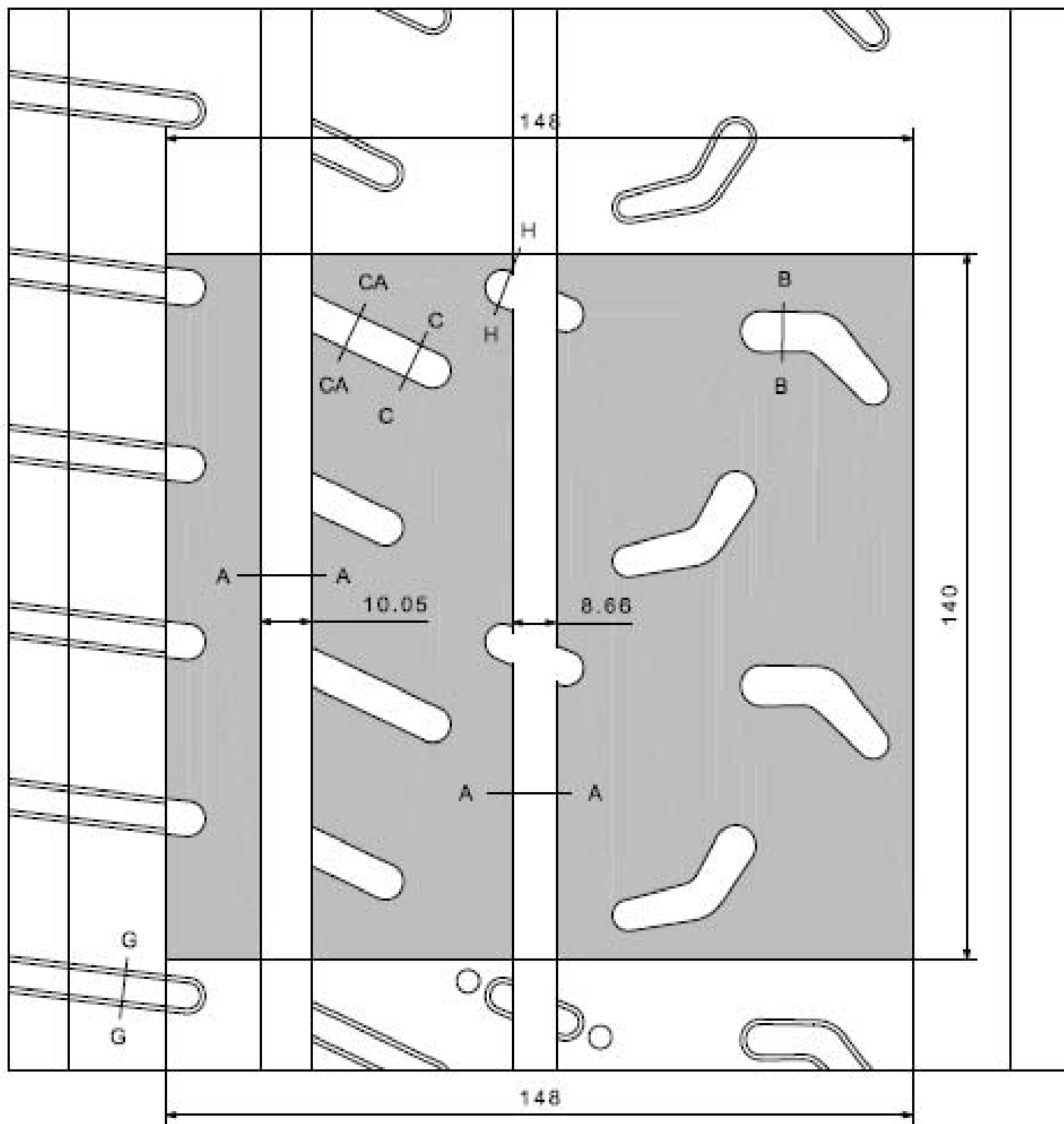
Groove Area by 148 x 140 at least 1.8mm deep : 4579.1mm²
 Void % : 22.1%
 Groove Area by 148 x 140 at least 5.5mm deep : 3688.1mm²
 Void % : 17.8%



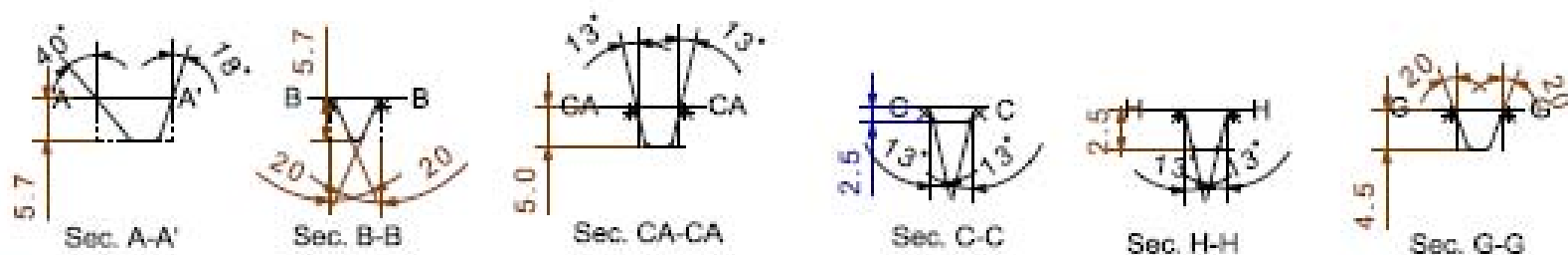
KUMHO TIRE

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

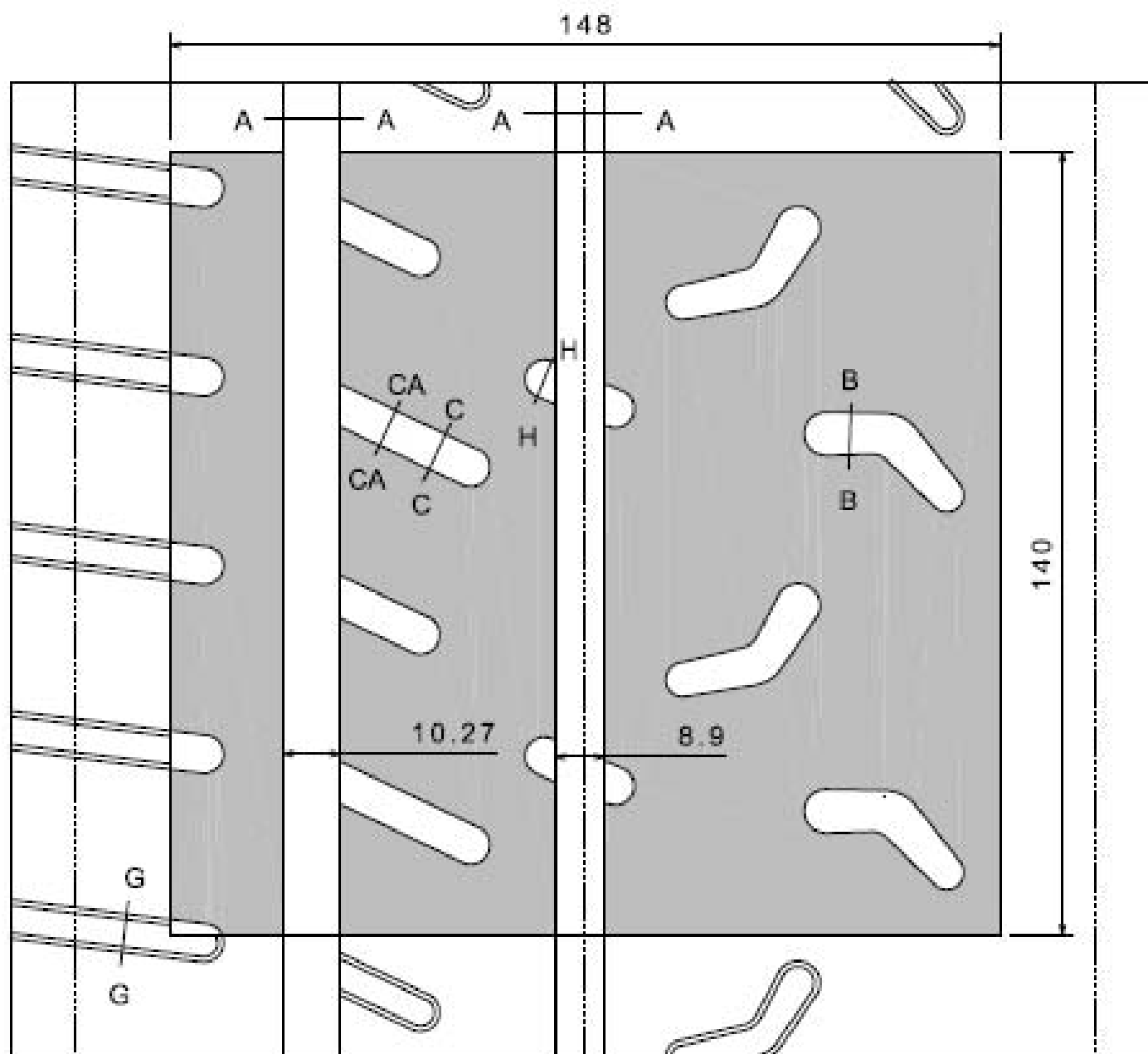
KUMHO TYRES

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%

