



2019 List of Asphalt Eligible Tyres



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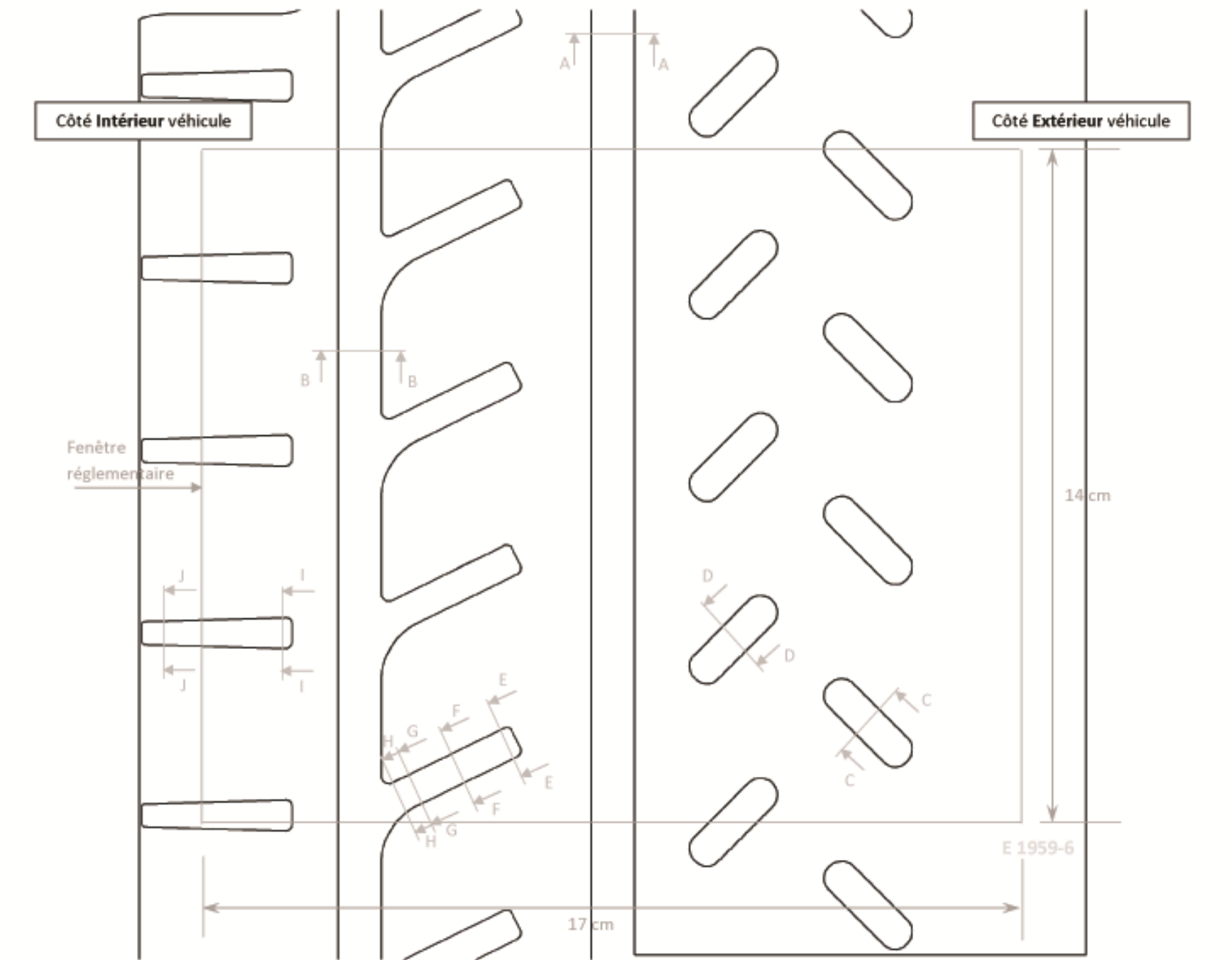


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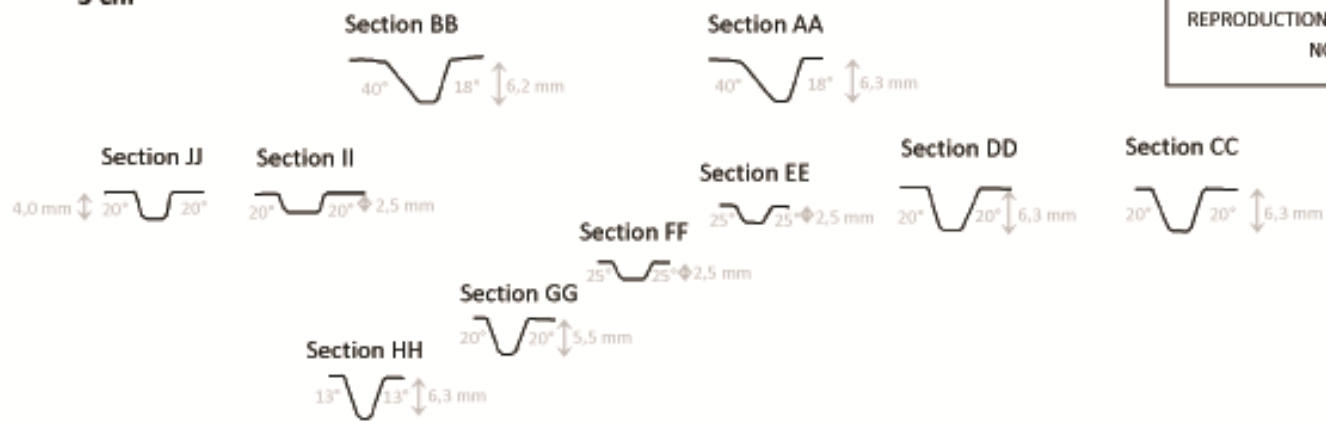
Domaine : Rallye Asphalte
Dimension : 20 / 65 – 18
Plan de la sculpture : Pilot Sport R
Entaillement Surfamique dans fenêtre réglementaire : 21,51 %

Clermont-Ferrand le 05/12/2013



Echelle 1:1
5 cm

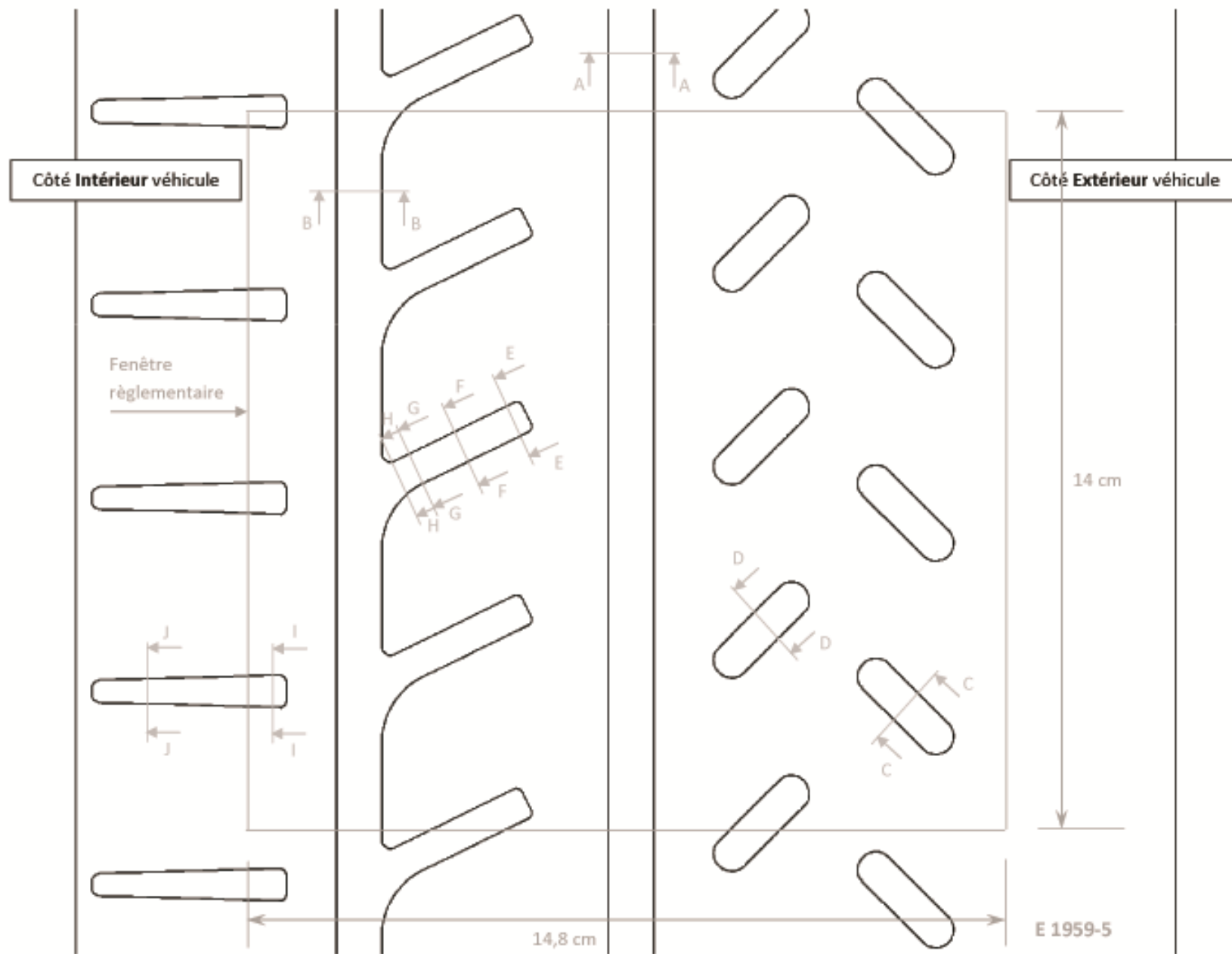
MANUFACTURE FRANCAISE DES PNEUMATIQUES
 MICHELIN CLERMONT-FERRAND
 PROPRIETE EXCLUSIVE DE NOTRE SOCIETE
 REPRODUCTION OU UTILISATION INTERDITE SANS
 NOTRE ACCORD ECRIT



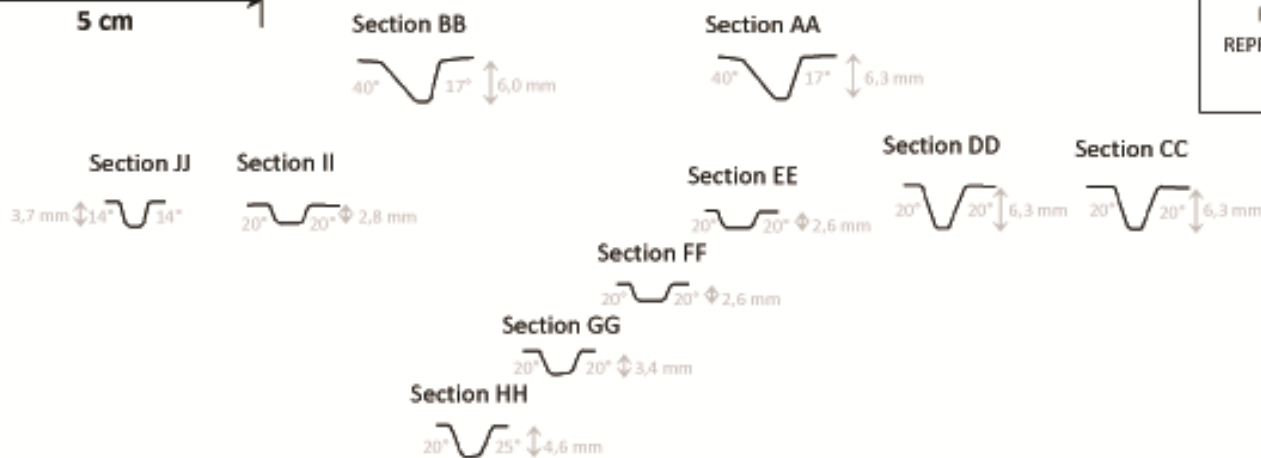


Domaine : Rallye Asphalte
 Dimension : 19 / 63 – 17
 Plan de la sculpture : Pilot Sport R
 Entaillement surfacique sur fenêtre réglementaire : 21,51 %

Clermont-Ferrand le 05/12/2013



Echelle 1:1
 5 cm

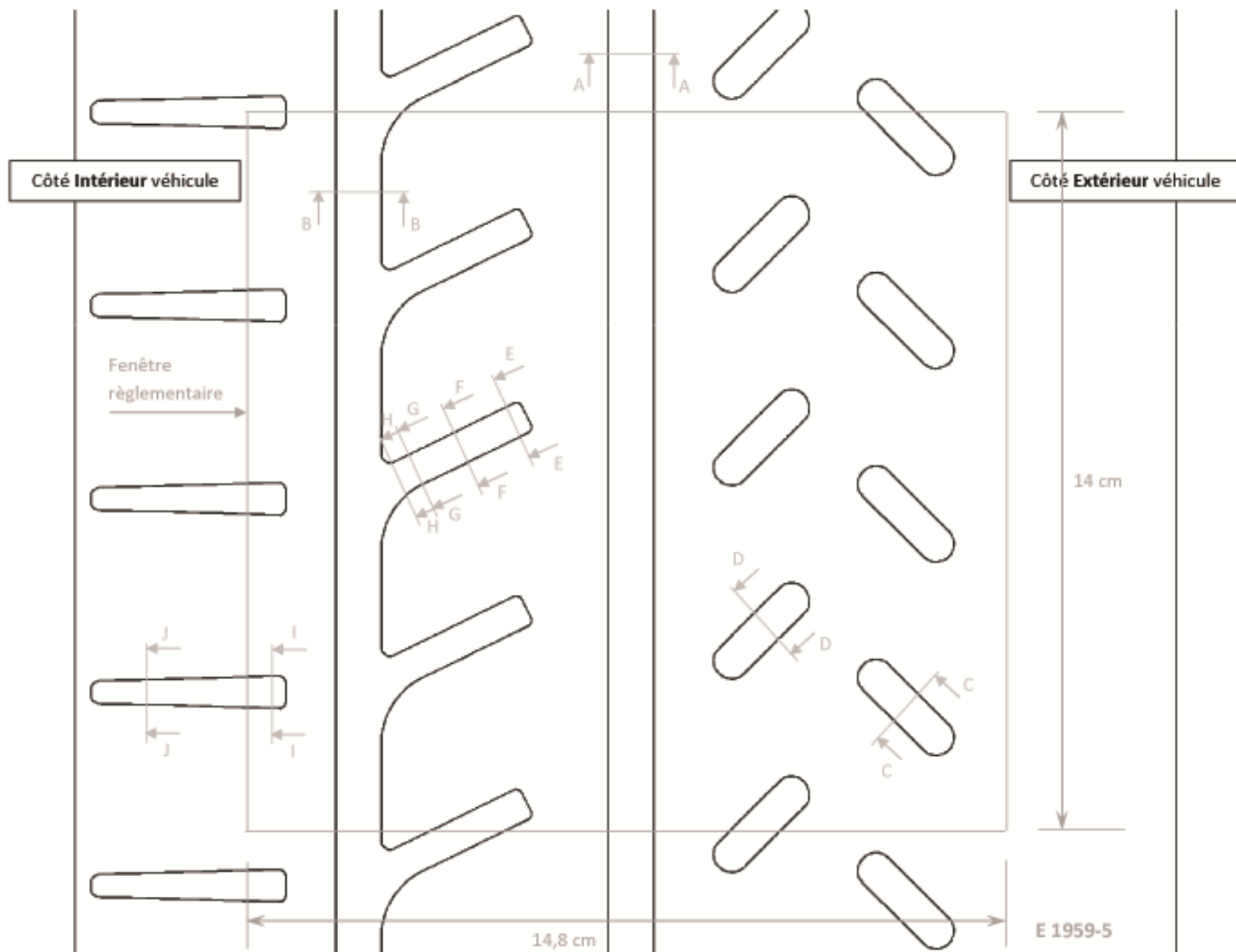


MANUFACTURE FRANCAISE DES PNEUMATIQUES
 MICHELIN CLERMONT-FERRAND
 PROPRIETE EXCLUSIVE DE NOTRE SOCIETE
 REPRODUCTION OU UTILISATION INTERDITE SANS
 NOTRE ACCORD ECRIT

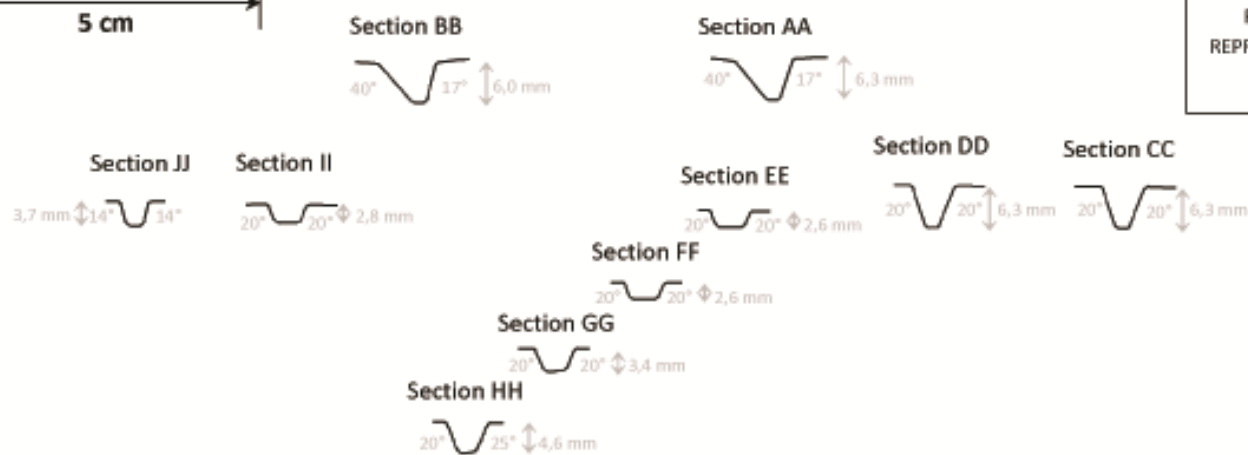


Domaine : Rallye Asphalte
 Dimension : 19 / 60 – 16
 Plan de la sculpture : **Pilot Sport R**
 Entaillement surfacique sur fenêtre réglementaire : **21,51 %**

Clermont-Ferrand le 05/12/2013



Echelle 1:1
 5 cm

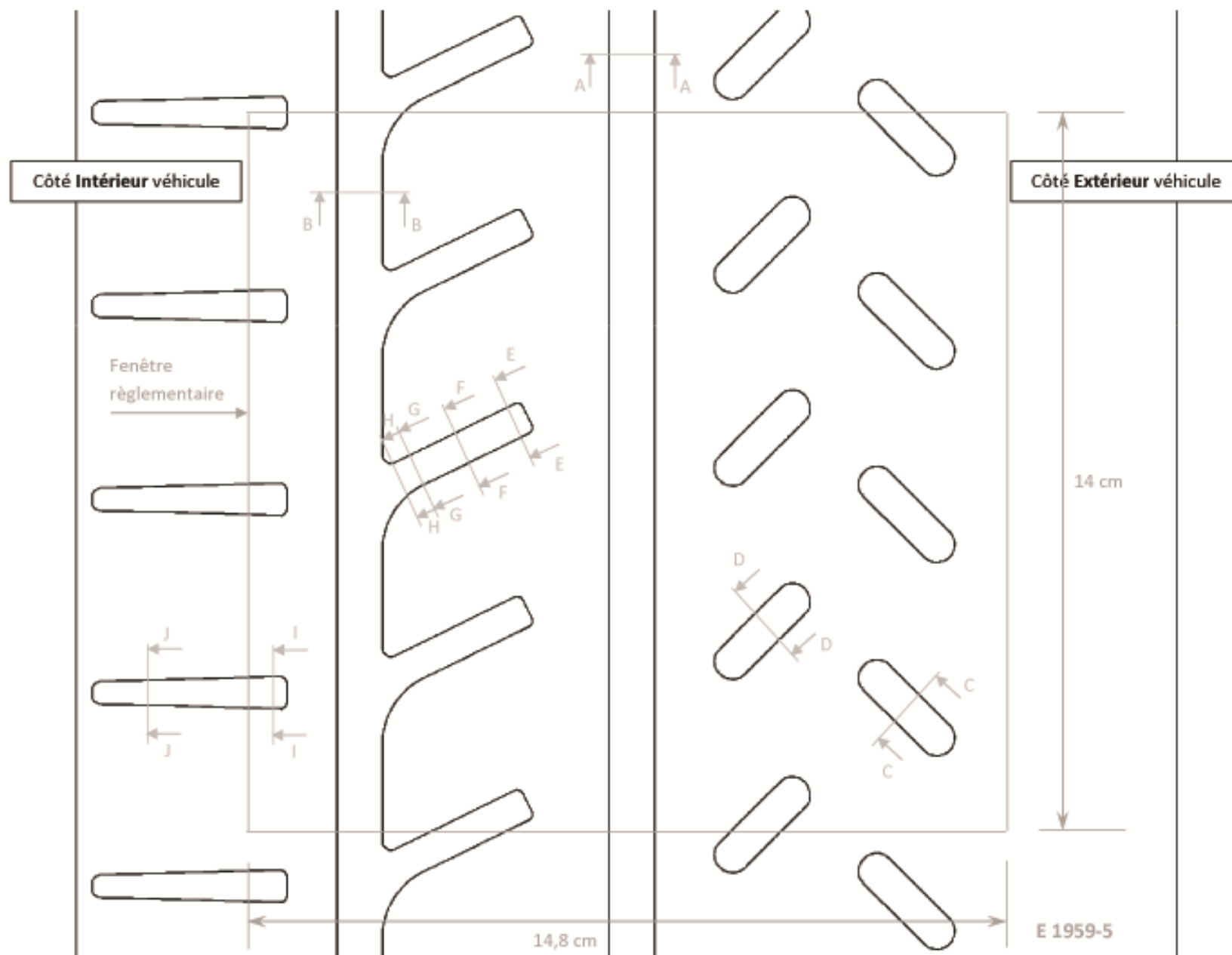


MANUFACTURE FRANCAISE DES PNEUMATIQUES
 MICHELIN CLERMONT-FERRAND
 PROPRIETE EXCLUSIVE DE NOTRE SOCIETE
 REPRODUCTION OU UTILISATION INTERDITE SANS
 NOTRE ACCORD ECRIT

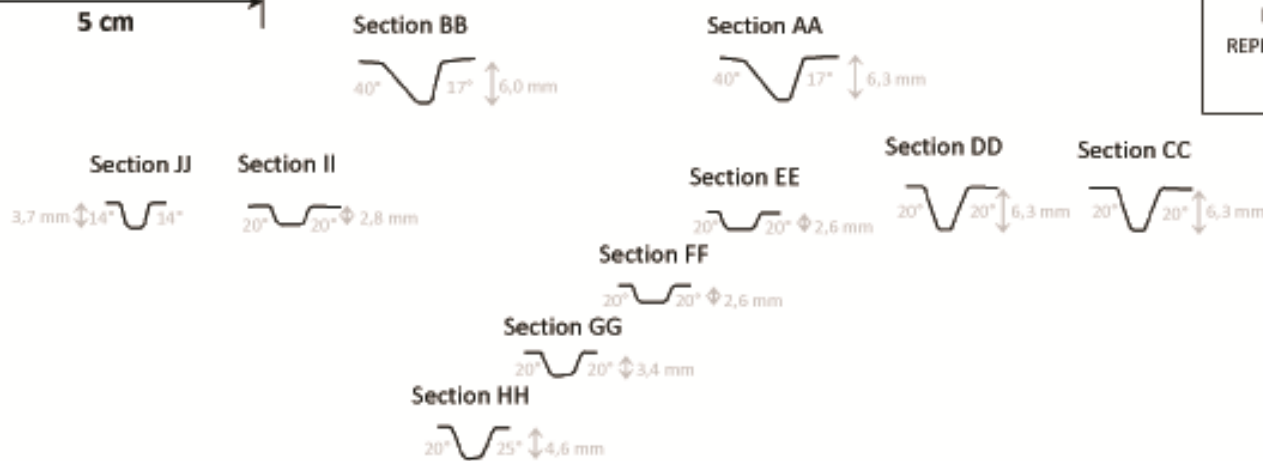


Domaine : Rallye Asphalte
 Dimension : 19 / 58 – 15
 Plan de la sculpture : Pilot Sport R
 Entaillement surfacique sur fenêtre réglementaire : 21,51 %

Clermont-Ferrand le 05/12/2013



Echelle 1:1
 5 cm

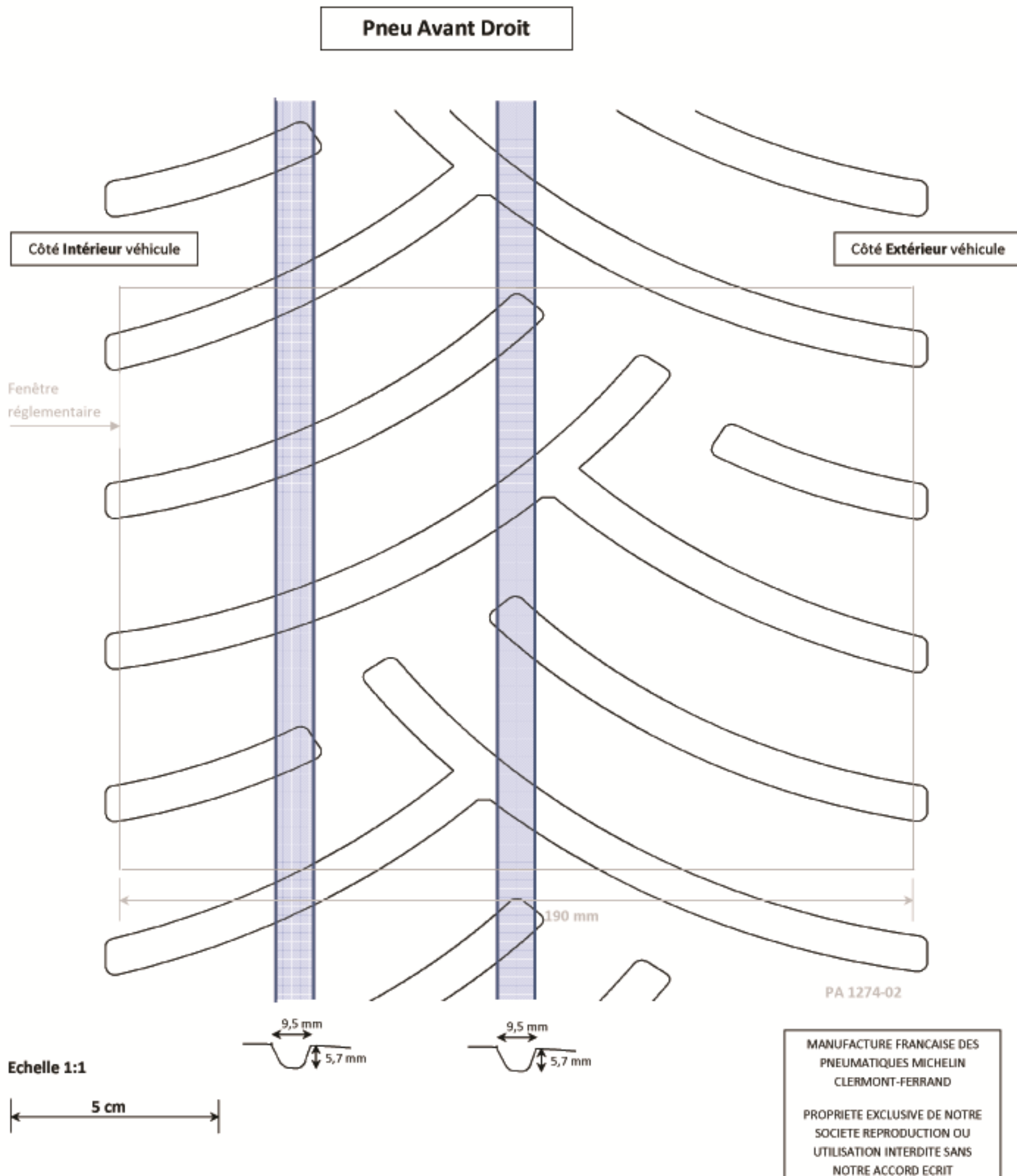


MANUFACTURE FRANCAISE DES PNEUMATIQUES
 MICHELIN CLERMONT-FERRAND
 PROPRIETE EXCLUSIVE DE NOTRE SOCIETE
 REPRODUCTION OU UTILISATION INTERDITE SANS
 NOTRE ACCORD ECRIT



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



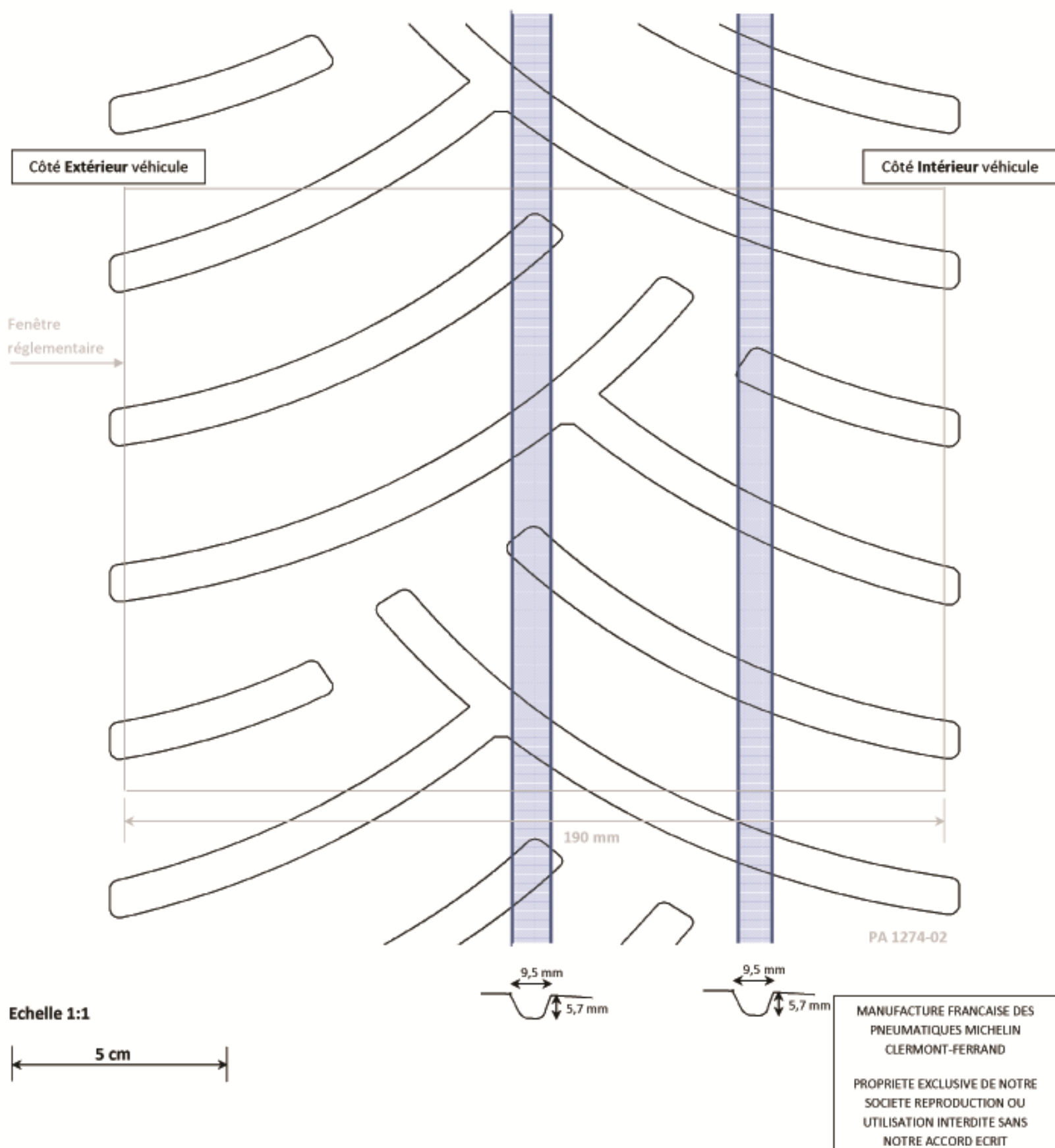
Circonférential grooves are hand-cutted.



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

Clermont-Ferrand le 18/12/2013

Pneu Avant Gauche

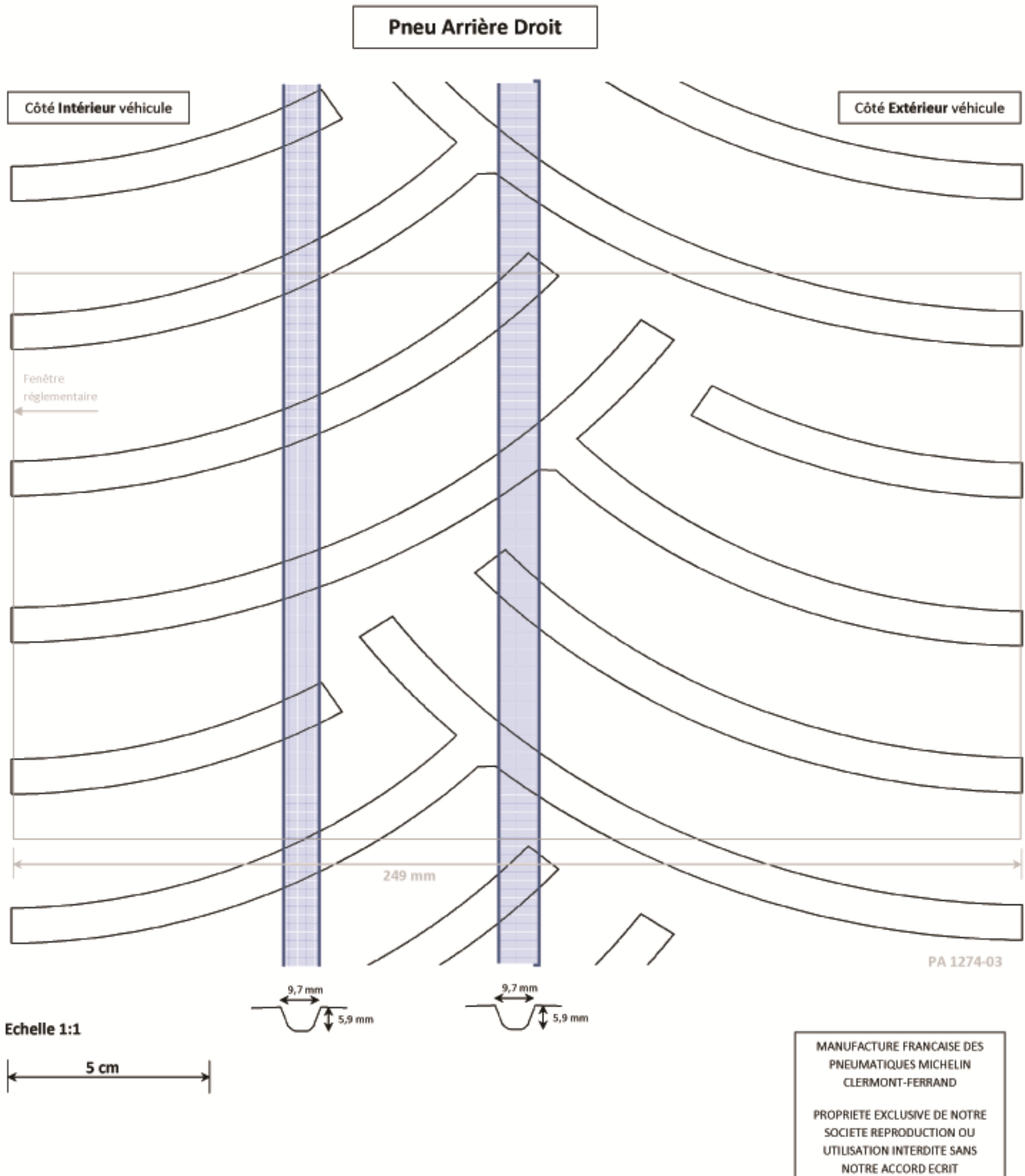


Circonférentielles sont manuellement coupées.



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

Clermont-Ferrand le 18/12/2013

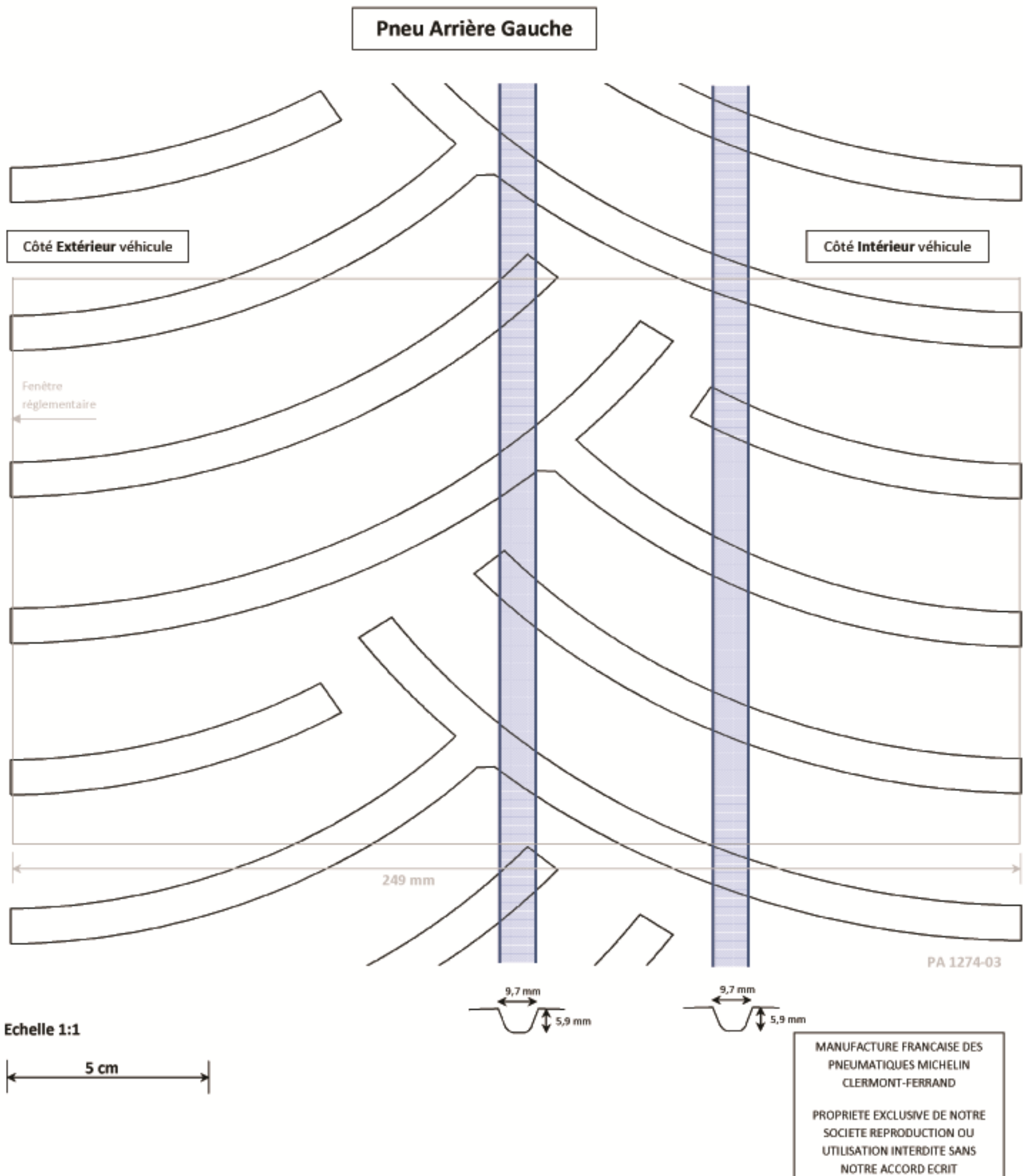


Circonférential grooves are hand-cutted.



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

Clermont-Ferrand le 18/12/2013



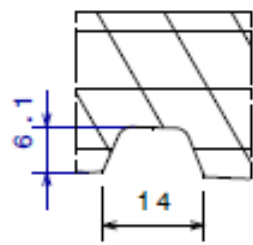
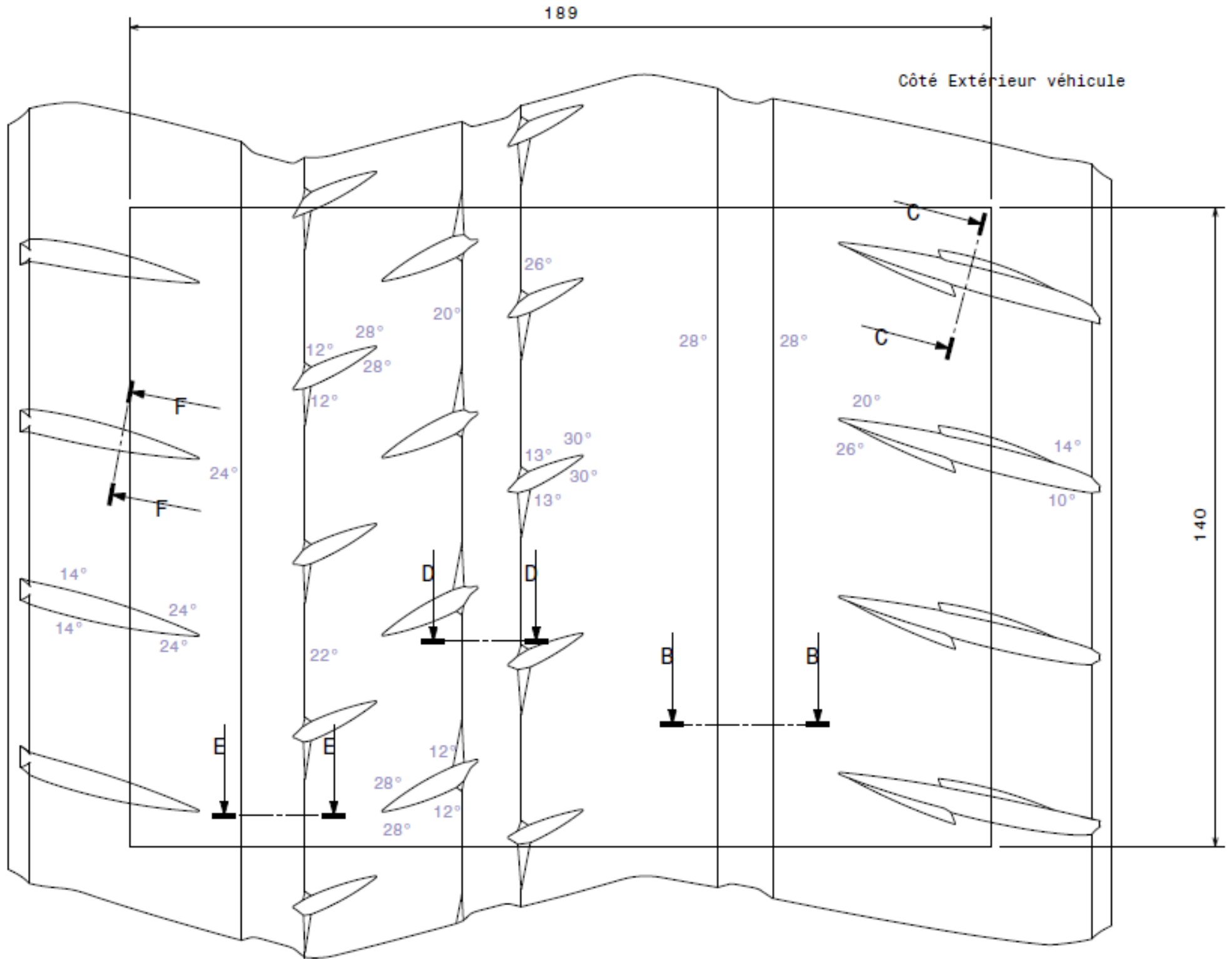
Circonfential groves are hand-cutted.

RGT only – 24/65-18

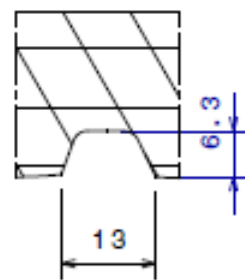


Domaine : Rallye Asphalte
 Dimension : 24/65 R18
 Plan de la sculpture : Pilot Sport R
 Entaillement Surfacique dans fenêtre règlementaire : 21.7 % à 1.8 mm d'usure
 : 17 % à 5.5 mm d'usure

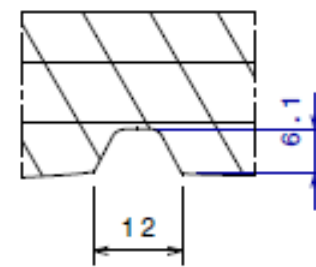
Clermont-Ferrand le 28/02/2018



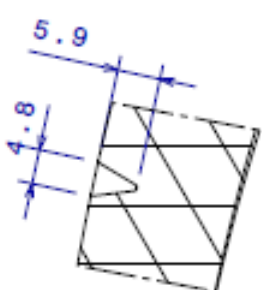
Coupe E-E



Coupe D-D

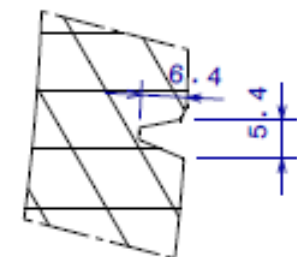


Coupe B-B



Coupe F-F

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

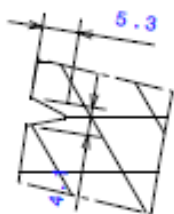
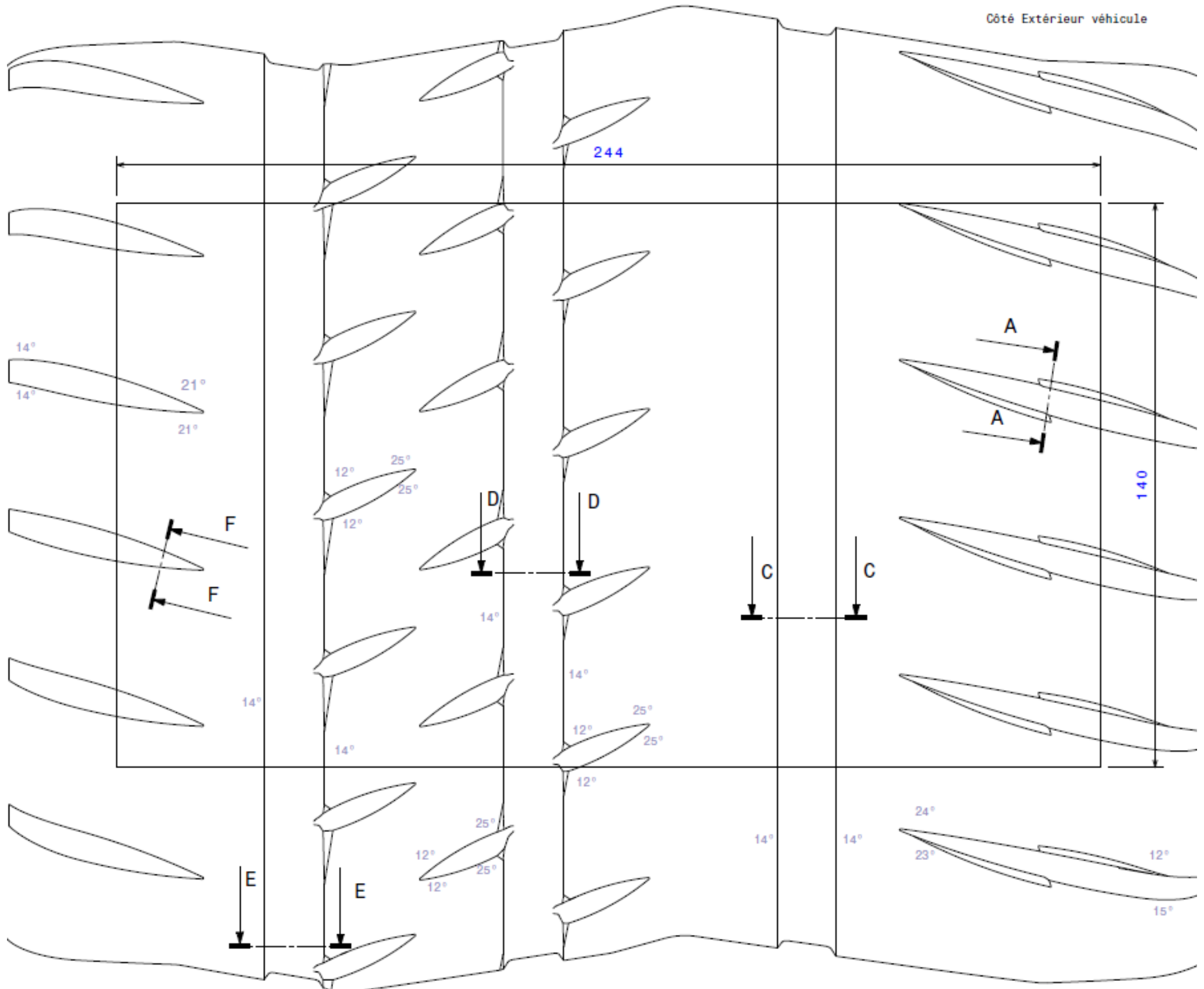


Coupe C-C

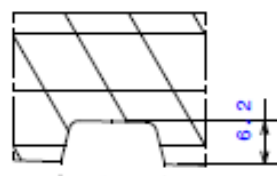


Domaine : Rallye Asphalte
 Dimension : 29/65 R18
 Plan de la sculpture : Pilot Sport R
 Entaillement Surfaccique dans fenêtre règlementaire : 22.6 % à 1.8 mm d'usure
 : 19.2 % à 5.5 mm d'usure

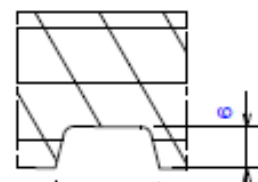
Clermont-Ferrand le 28/02/2018



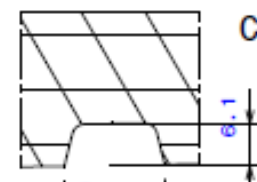
Coupe F-F



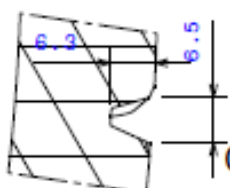
Coupe E-E



Coupe D-D



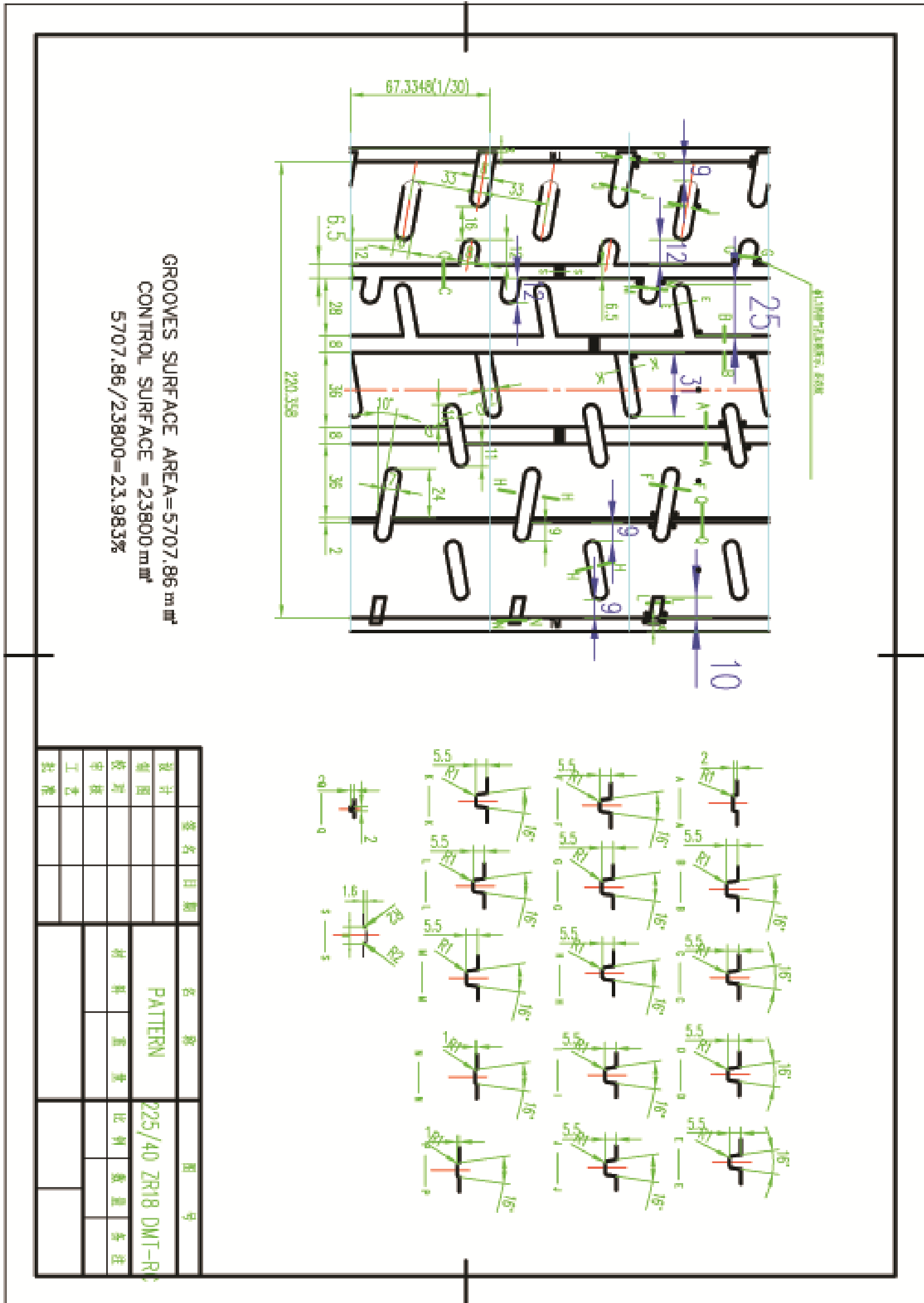
Coupe C-C



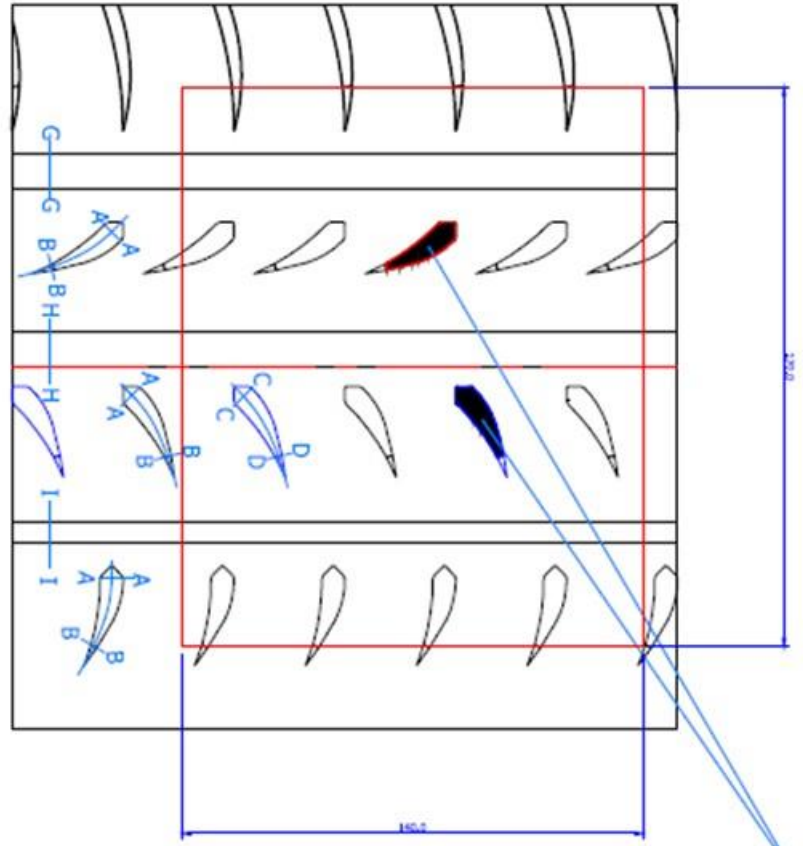
Coupe A-A

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

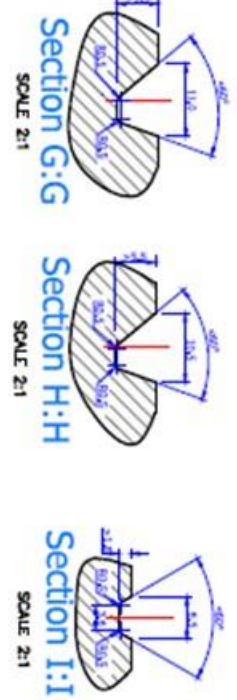
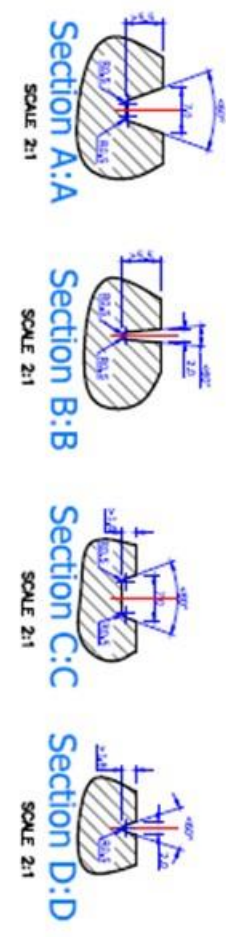
18" – 225/40-18



18" – 225/40-18



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	
HM	225/40 R18 DMT RC22 - FIA Homologation table
MATERIAL	DMACK TYRES - ENGLAND,

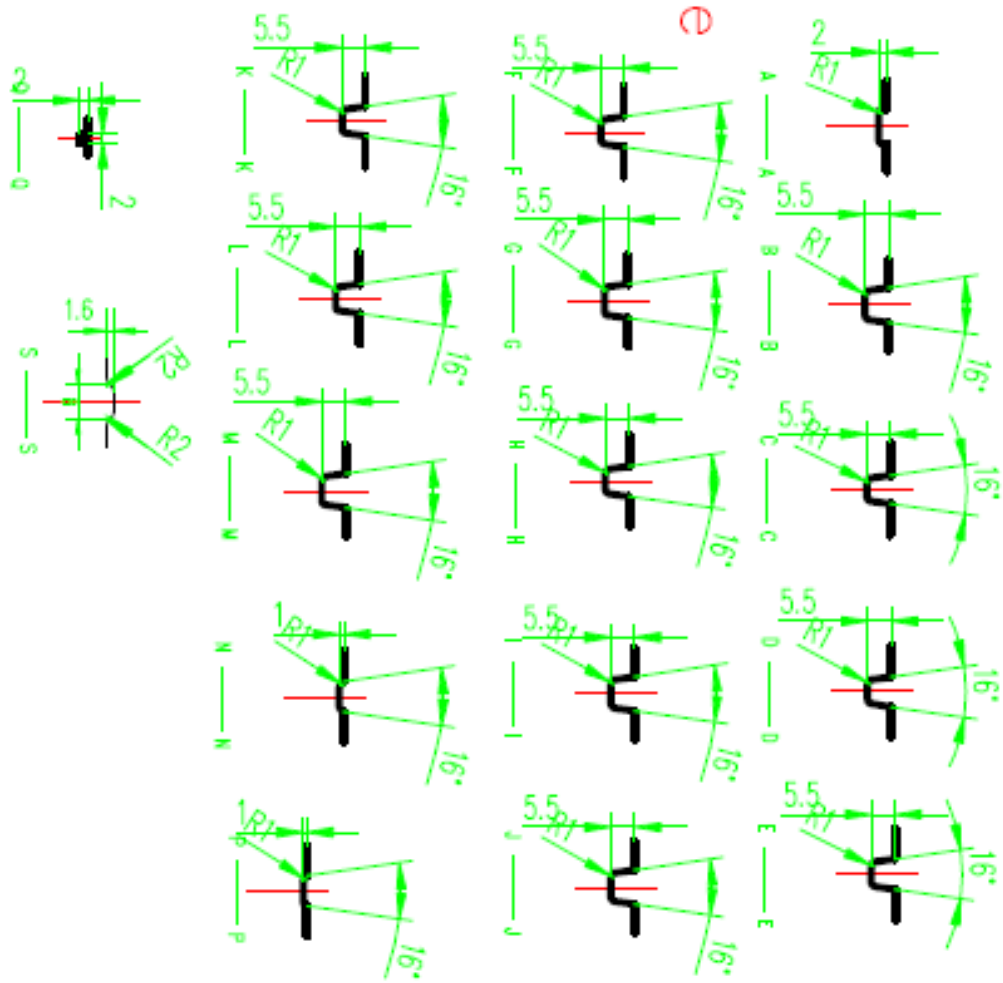
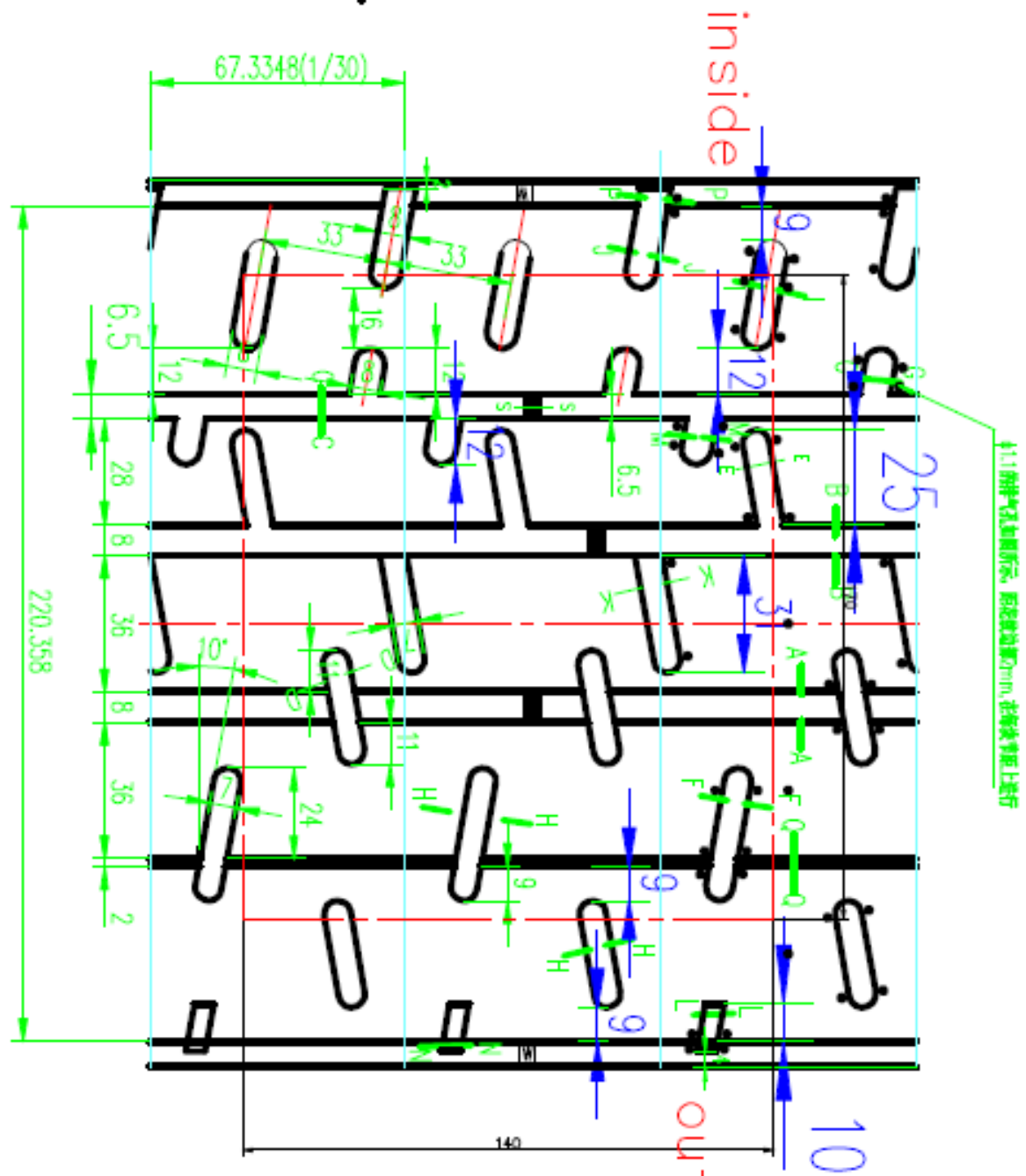
ISSUE	MODIFICATION	DATE	SIGN
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SCALE: 1:1, 2:1, 3:1
 DSNR: 02/22/2016
 DR: F. S.M.A.®
 16FB037

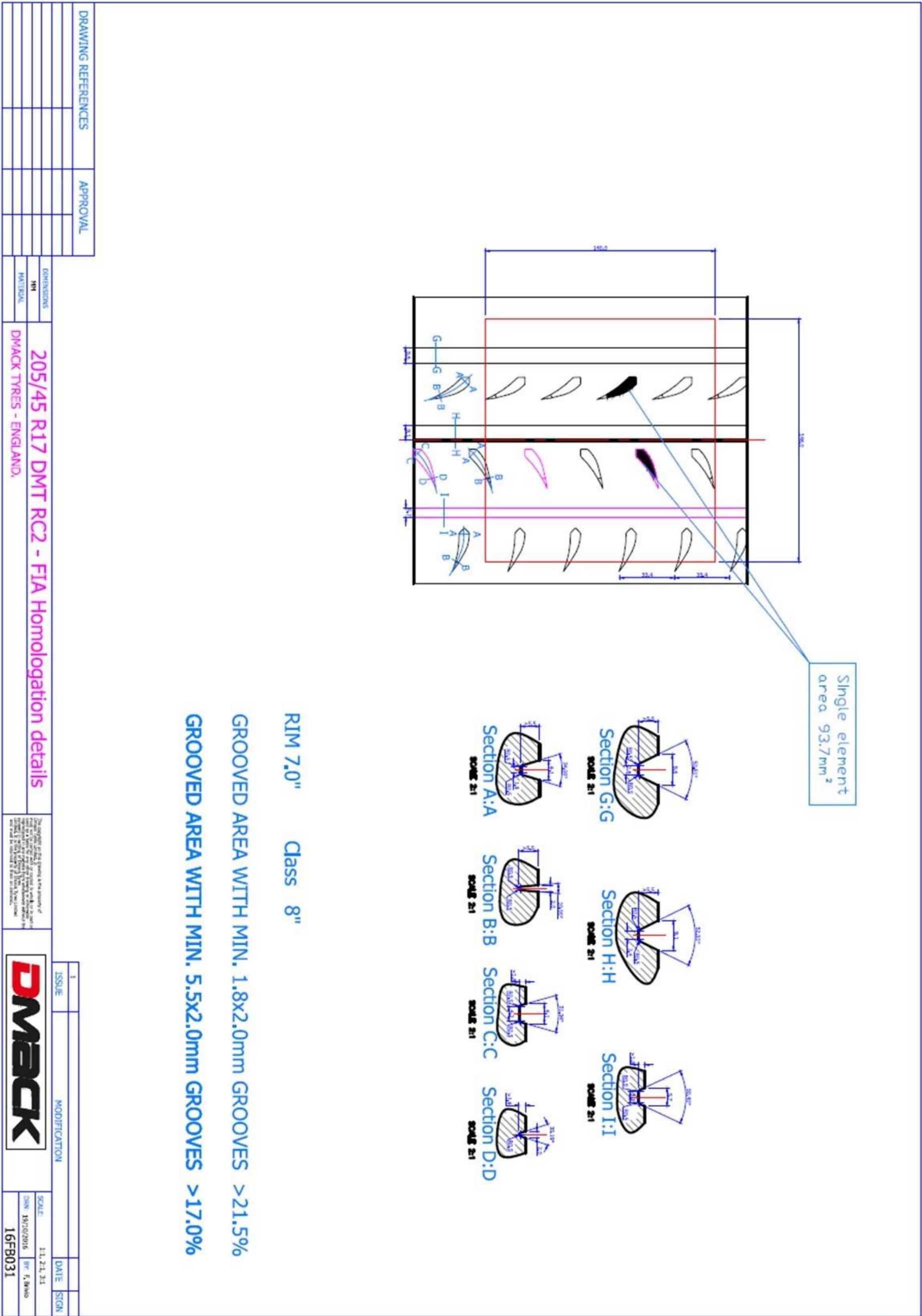
17" – 225/45-17

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



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

17" – 205/45-17



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%

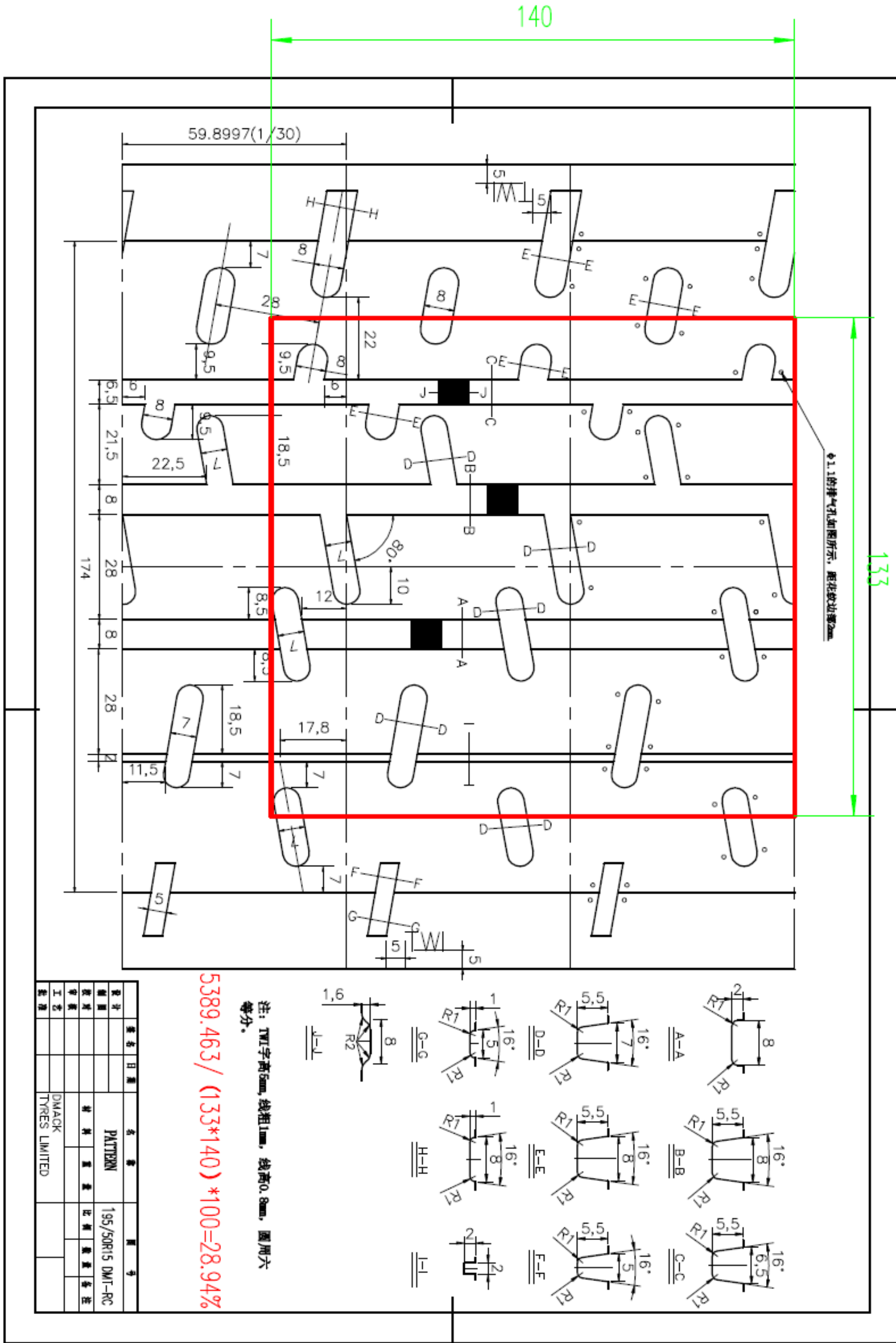
DRAWING REFERENCES		APPROVAL	

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

ISSUE	MODIFICATION	DATE	SIGN
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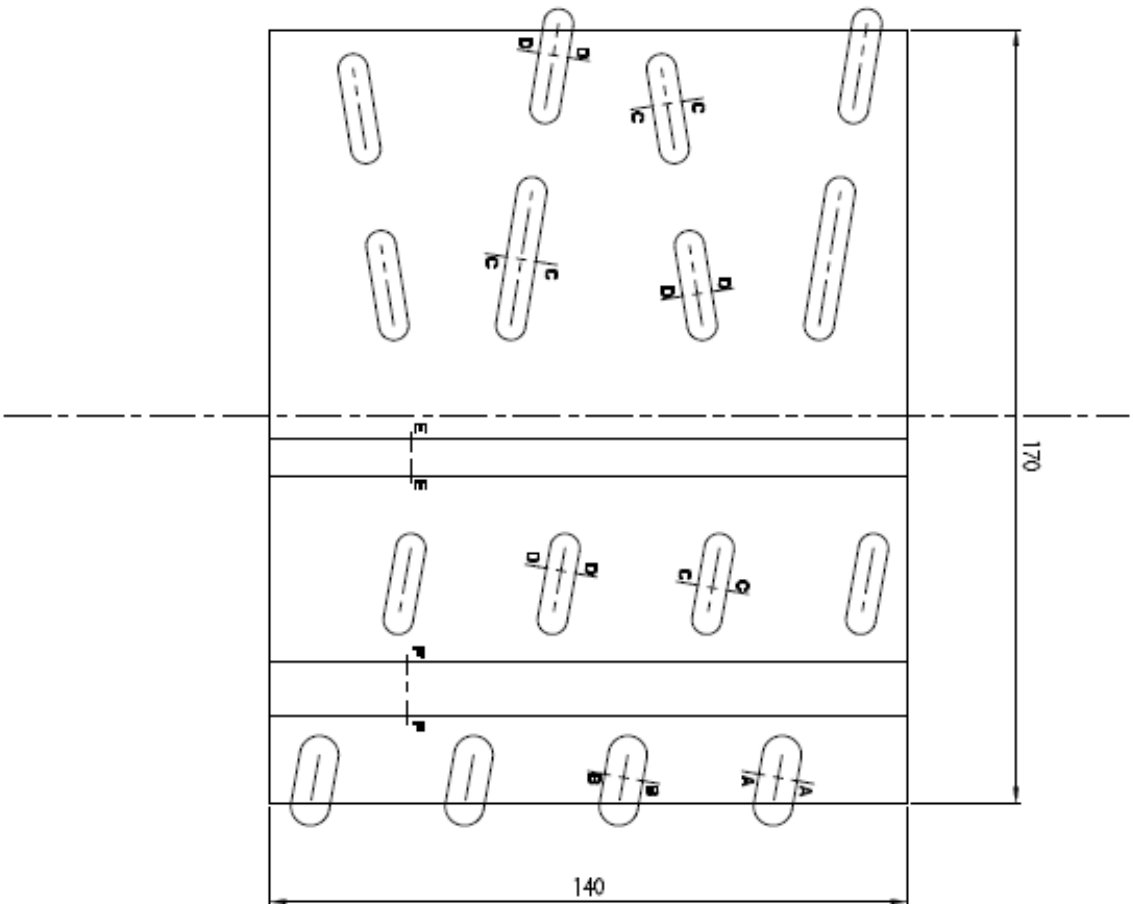
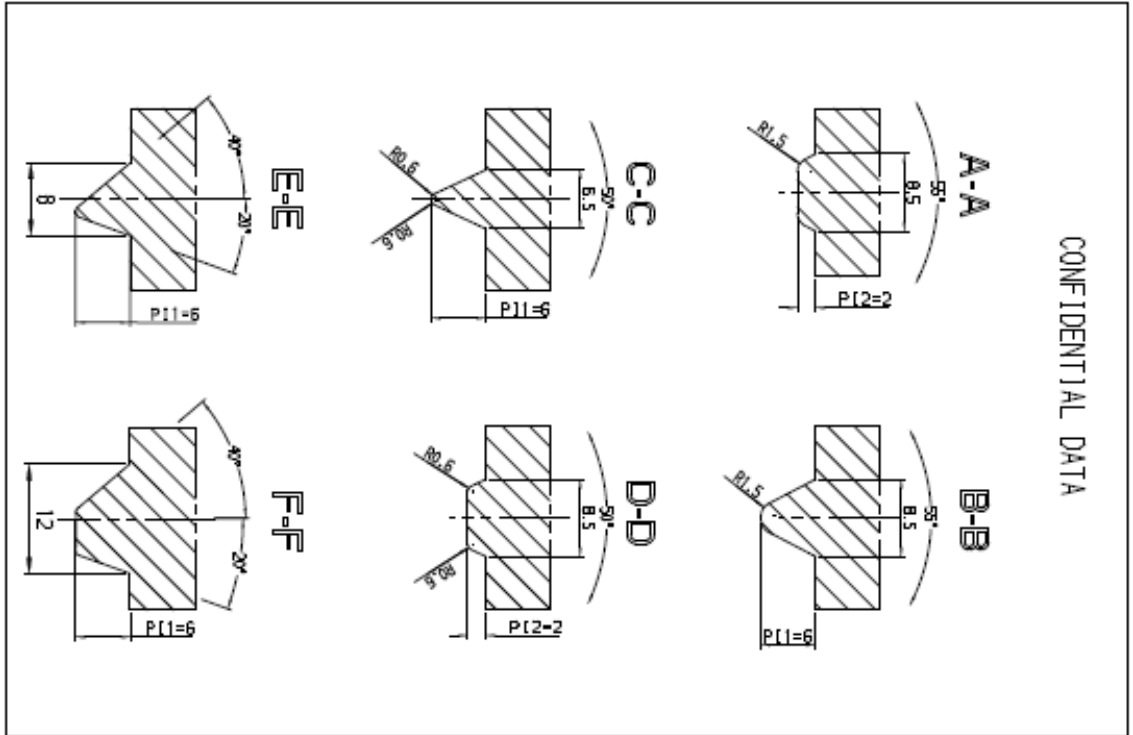
DMACK

SCALE: 1:1, 2:1, 3:1
 DSN: 19/03/2019 BY: F. BWA
 16FB031



18" – 235/40-18

CONFIDENTIAL DATA

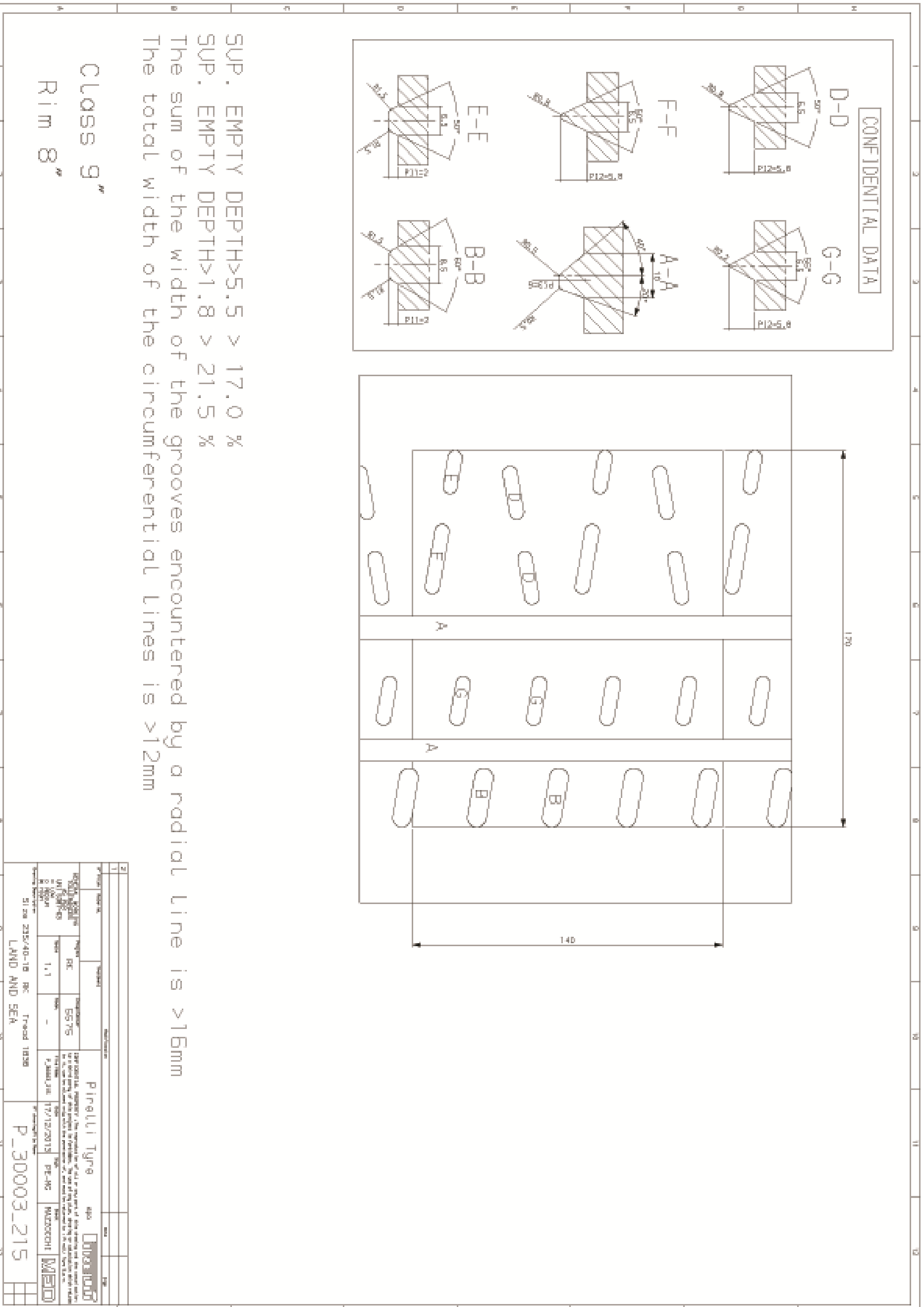


SUP. EMPTY DEPTH>5.5 > 17.0 %
 SUP. EMPTY DEPTH>1.8 > 21.5 %
 The sum of the width of the grooves encountered by a radial line is >16mm
 The total width of the circumferential lines is >12mm

Class 9"
 Rim 8"

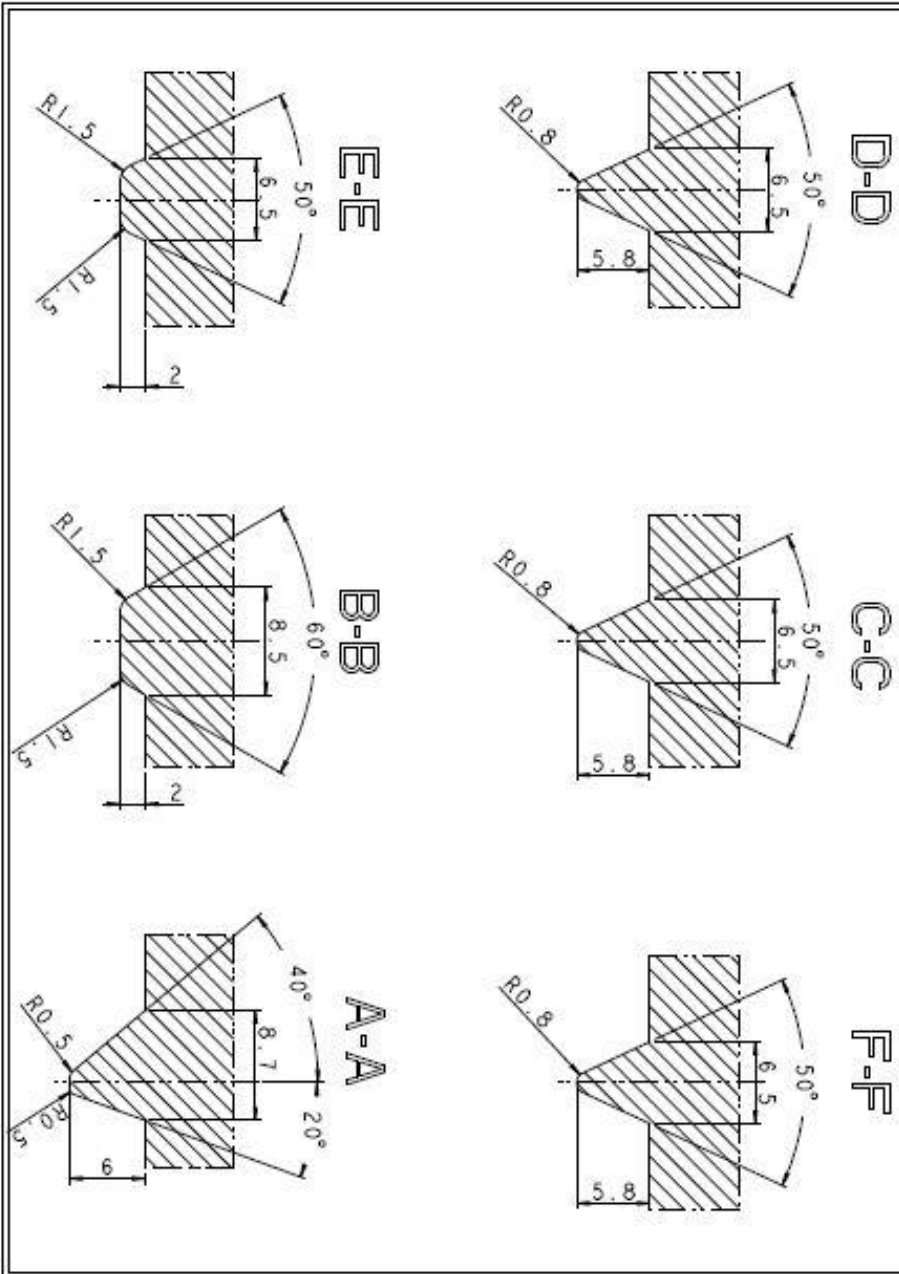
3	TRACHT TECHNISCHE	PROJEKT	BEZUGSZEICHEN	PROJEKTION	DATE	ZEICHEN
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SIZE: 235/40-18 RA LAND AND SEA				TRACHT 2791 MGD		

18" – 235/40-18



CONFIDENTIAL DATA

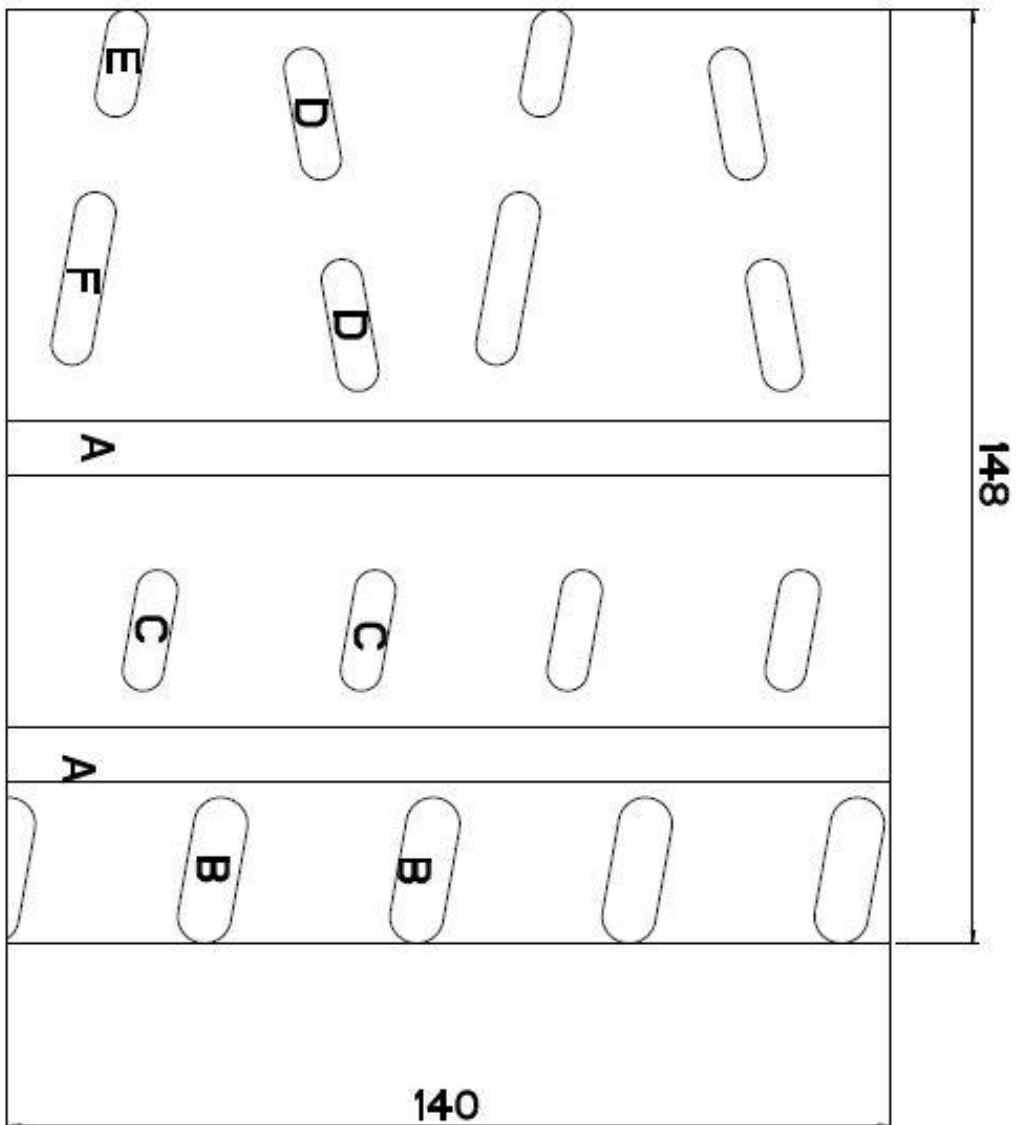
MOULD SECTION
SCALE 2:1



SUP. EMPTY DEPTH > 5.5
SUP. EMPTY DEPTH > 1.8

> 17%
> 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



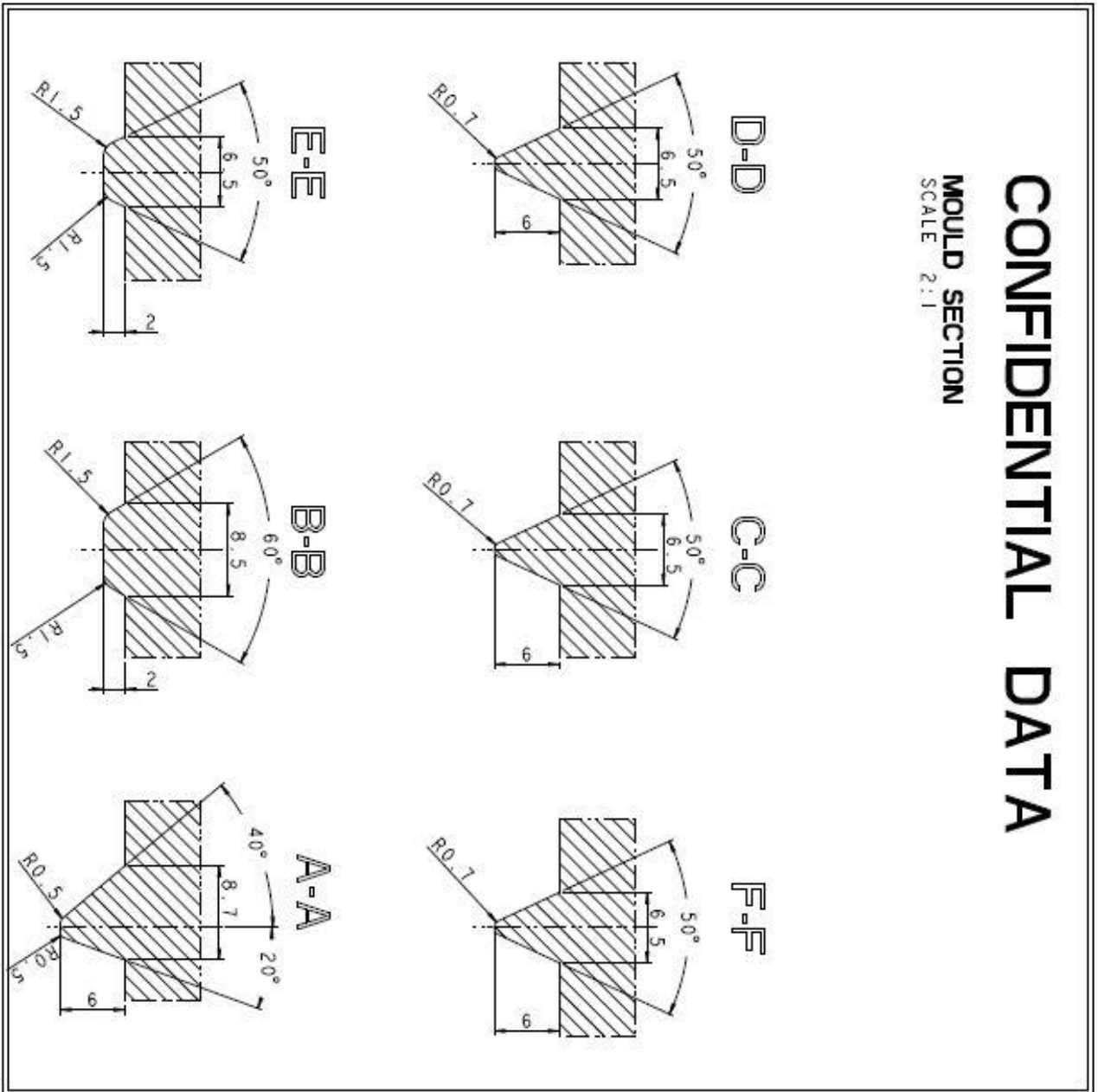
AREA
SCALE 1:1

CLASS 8"
RIM 7"

4									
3									
2									
1									
N									
N° PITCH	Material	Treatment	Modification	Date					
				Sign					
GENERAL WORKING TOLERANCE		Project	Manufacturer	CONFIDENTIAL PROPERTY: The reproduction of all or any part of this drawing and the cancellation of this part is strictly prohibited without the permission of the Pirelli Tyre Spa.					
AS PER UNI 5887-85		Scale	5375	Date					
□ LOW		1:1		19/03/2014					
□ MEDIUM		Model	PV	Size		PE - MG		MAZZOCCHI	
□ HIGH				P_30004_292		PRO/E			
Drawing Description				Size 205/45-17 RK Tread 1838		LAND & SEA			

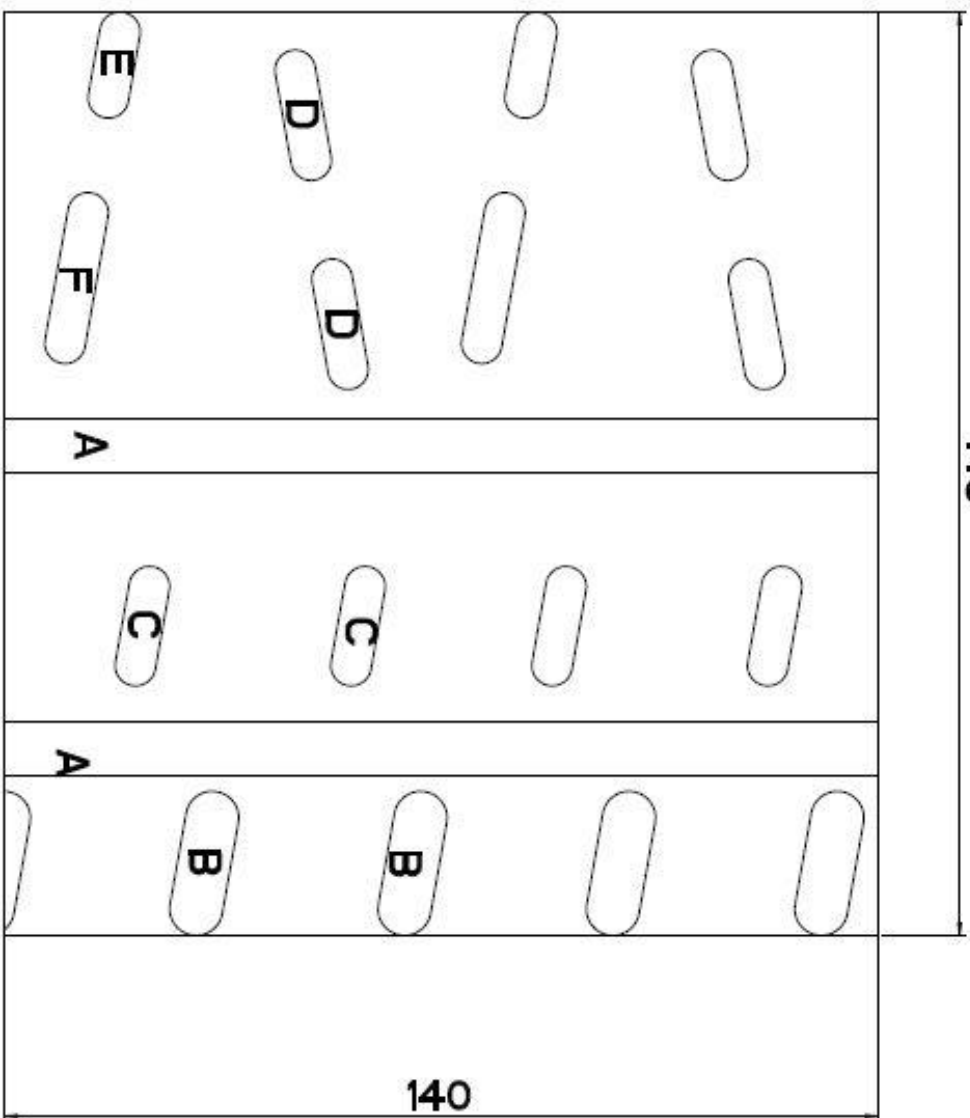
CONFIDENTIAL DATA

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

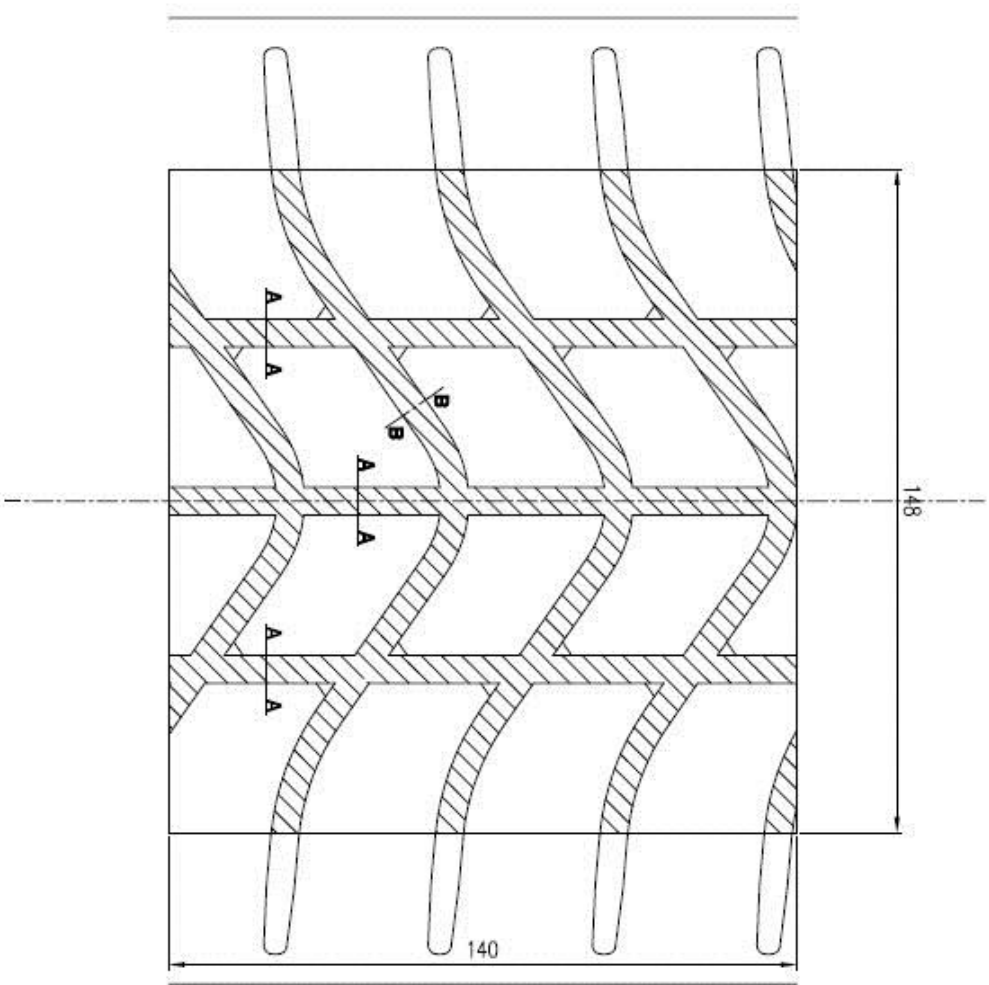
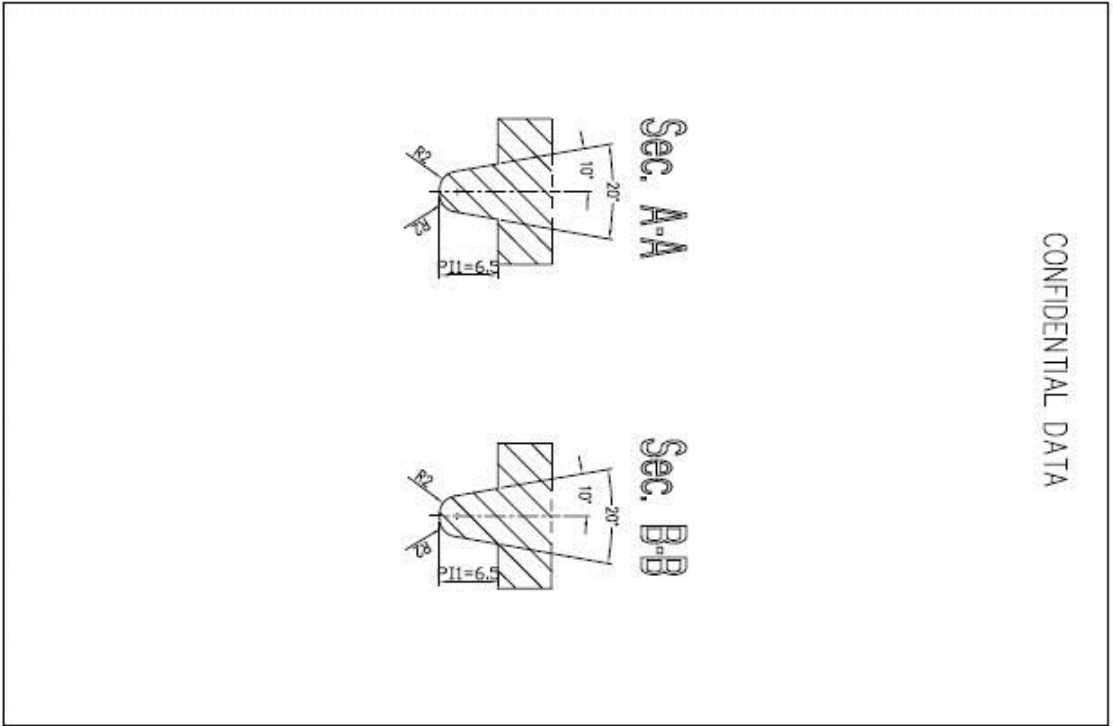


CLASS 8"
RIM 7"

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



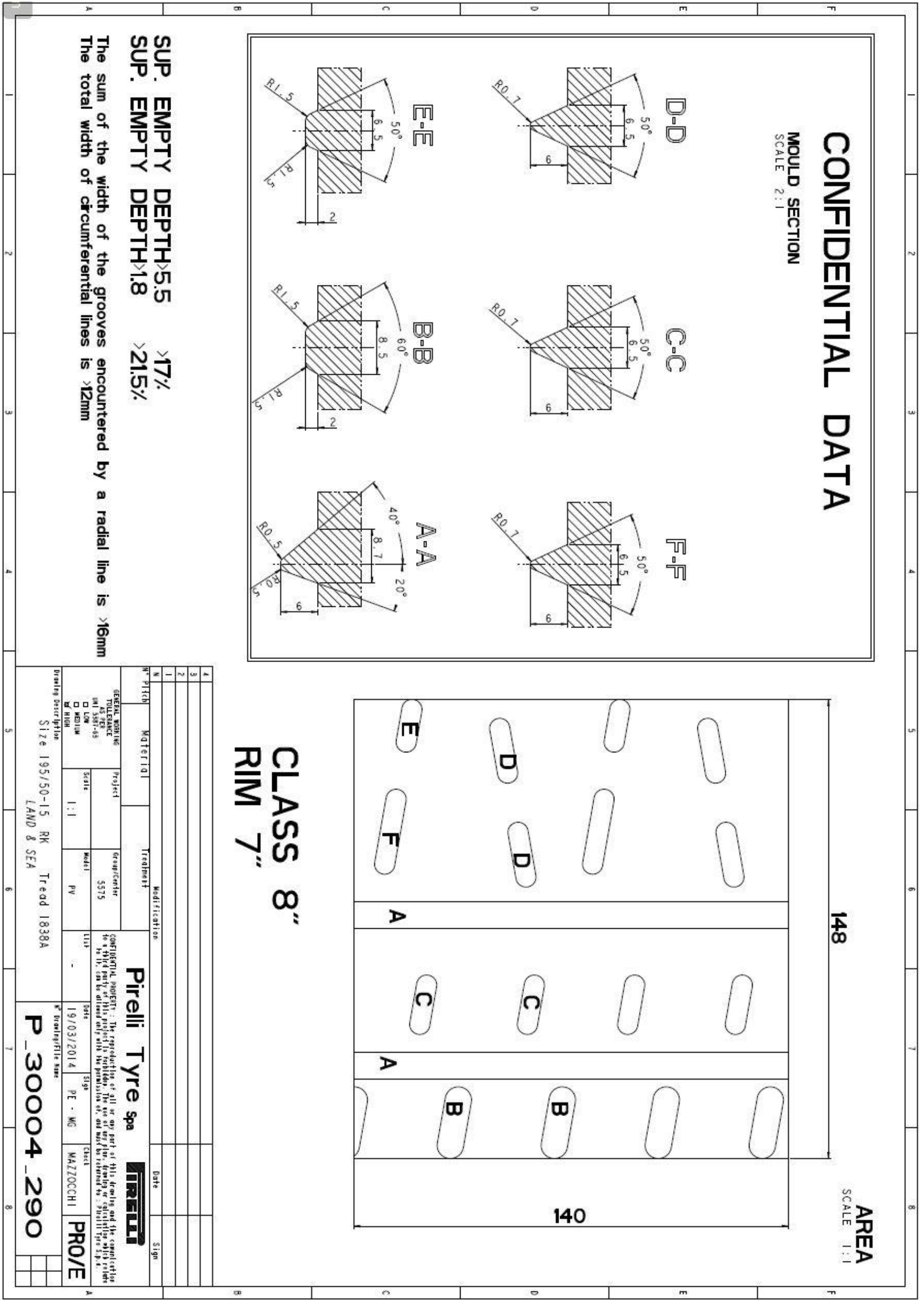
16" – 195/50-16



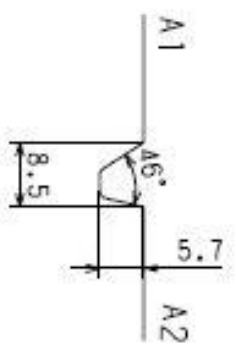
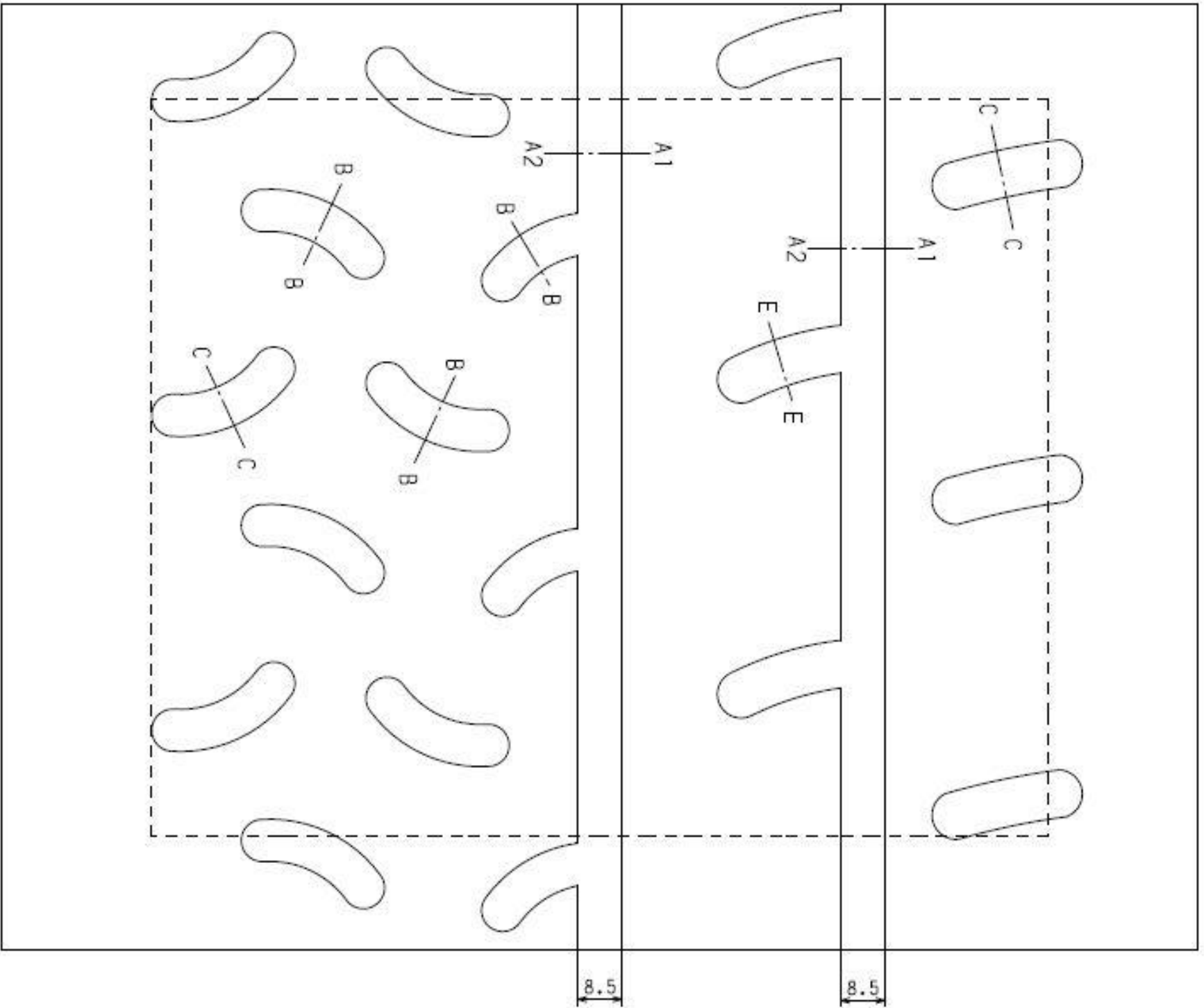
SUP. EMPTY DEPTH>5.5 > 17.0 %
 SUP. EMPTY DEPTH>1.8 > 21.5 %
 The sum of the width of the grooves encountered by a radial line is >16mm
 The total width of the circumferential lines is >12mm

Class 8"
 Rim 6.5"

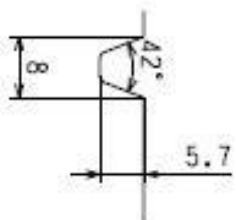
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TOLERANCES		RW		5.575		CONFIDENTIAL PROPERTY		PIRELLI Tyre		SPO	
LOW		MEDIUM		HIGH		CONFIDENTIAL PROPERTY		PIRELLI Tyre		SPO	
01/05/2018		EV		SR		CONFIDENTIAL PROPERTY		PIRELLI Tyre		SPO	
Size 195/50 R16 RW		Tread 2044		LAND AND SEA		CONFIDENTIAL PROPERTY		PIRELLI Tyre		SPO	
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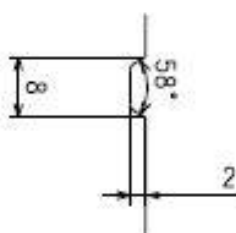
18" – 235/40-18



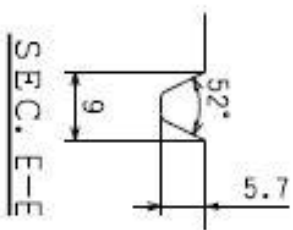
SEC. A1-A2



SEC. B-B



SEC. C-C



SEC. E-E

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

----- Control area 170X140

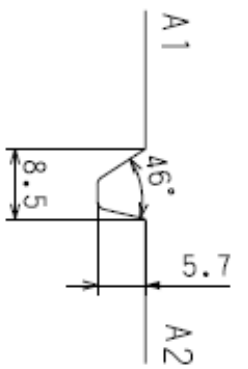
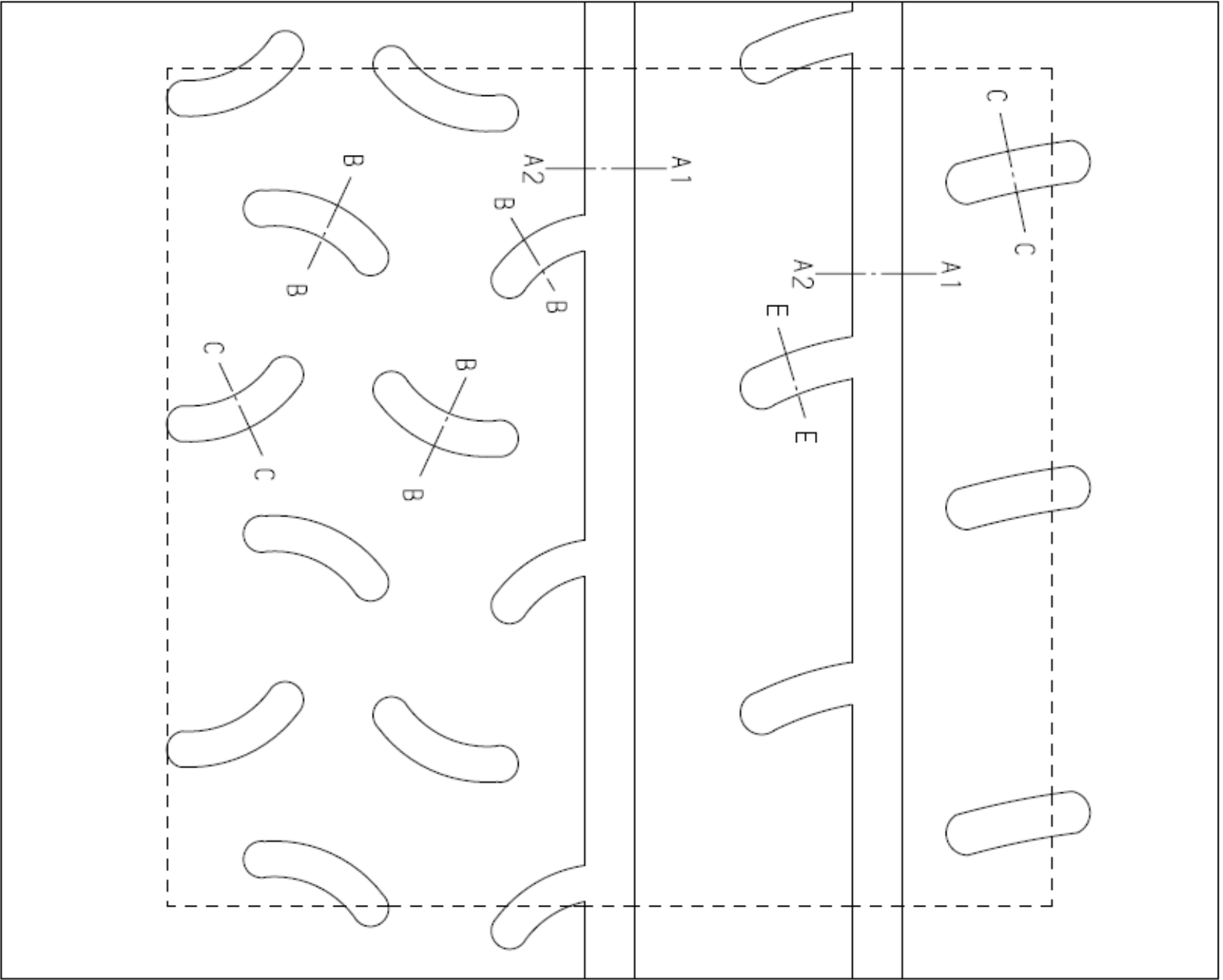
Tyre weight 9.7kg

PRODUCT NAME
YOKOHAMA ADVAN A051T

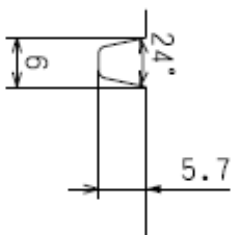
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A051A

SIZE 210/650R18

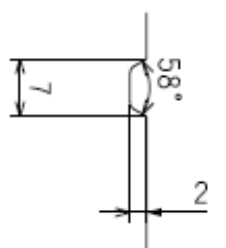
17" – 190/625-17



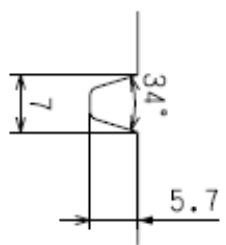
SEC. A1-A2



SEC. B-B



SEC. C-C



SEC. E-E

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

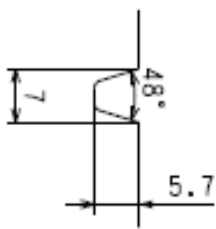
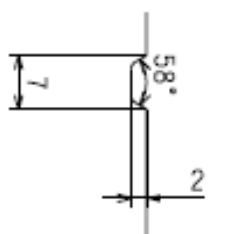
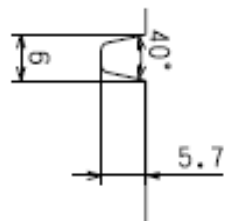
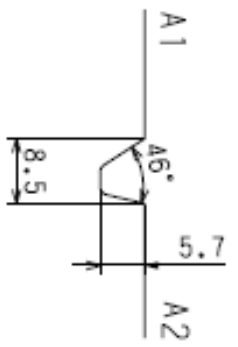
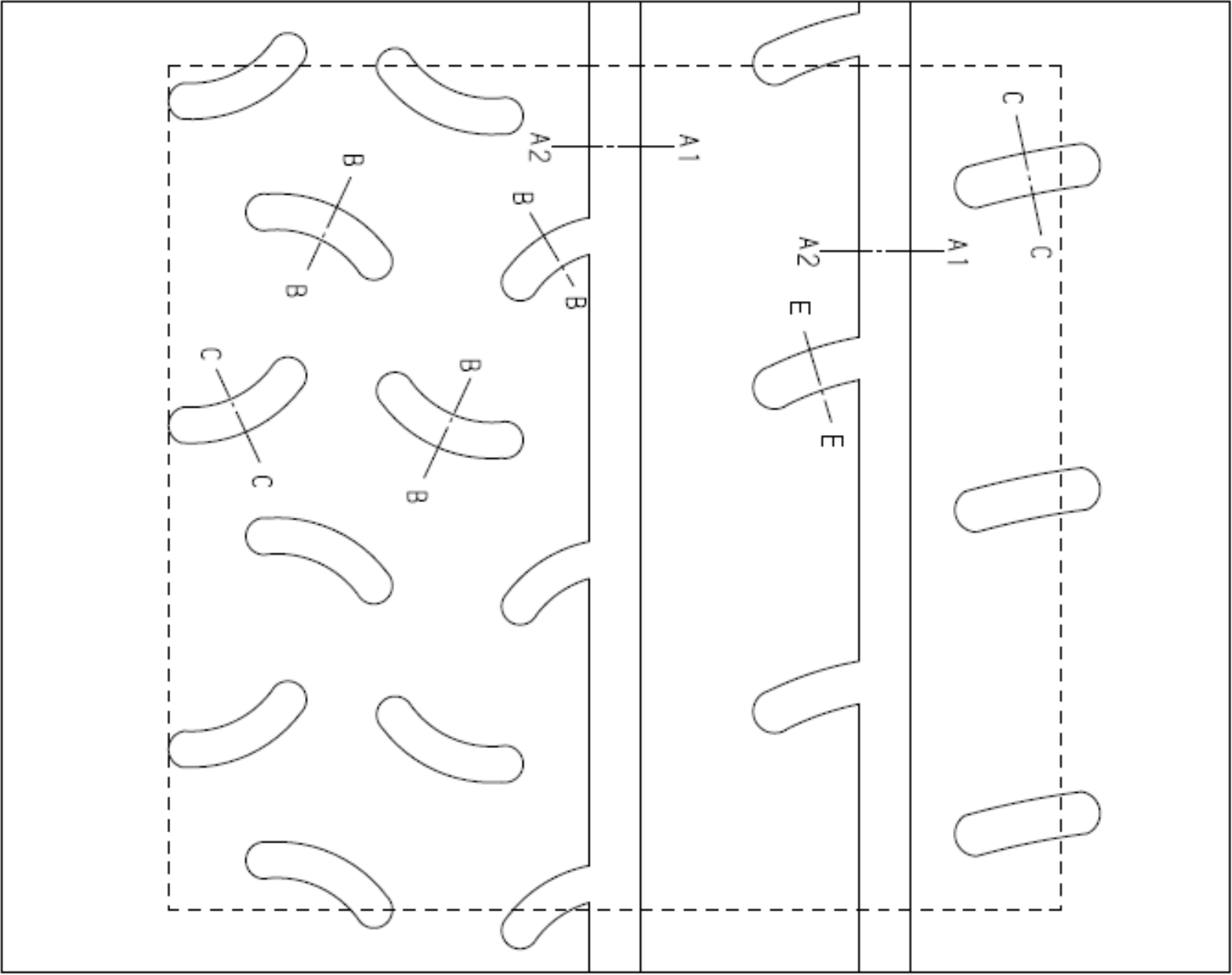
----- Control area 148X140

PRODUCT NAME
YOKOHAMA ADVAN A0517

PATTERN NAME
A051A

SIZE 190/625R17

17" – 210/625-17



SEC. E-E

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

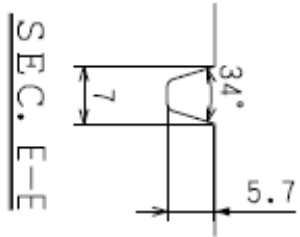
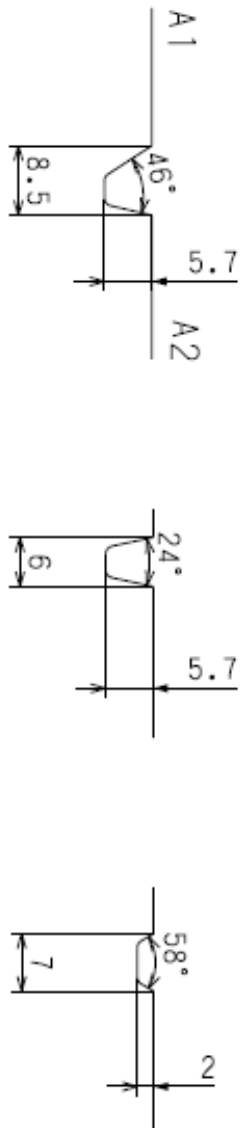
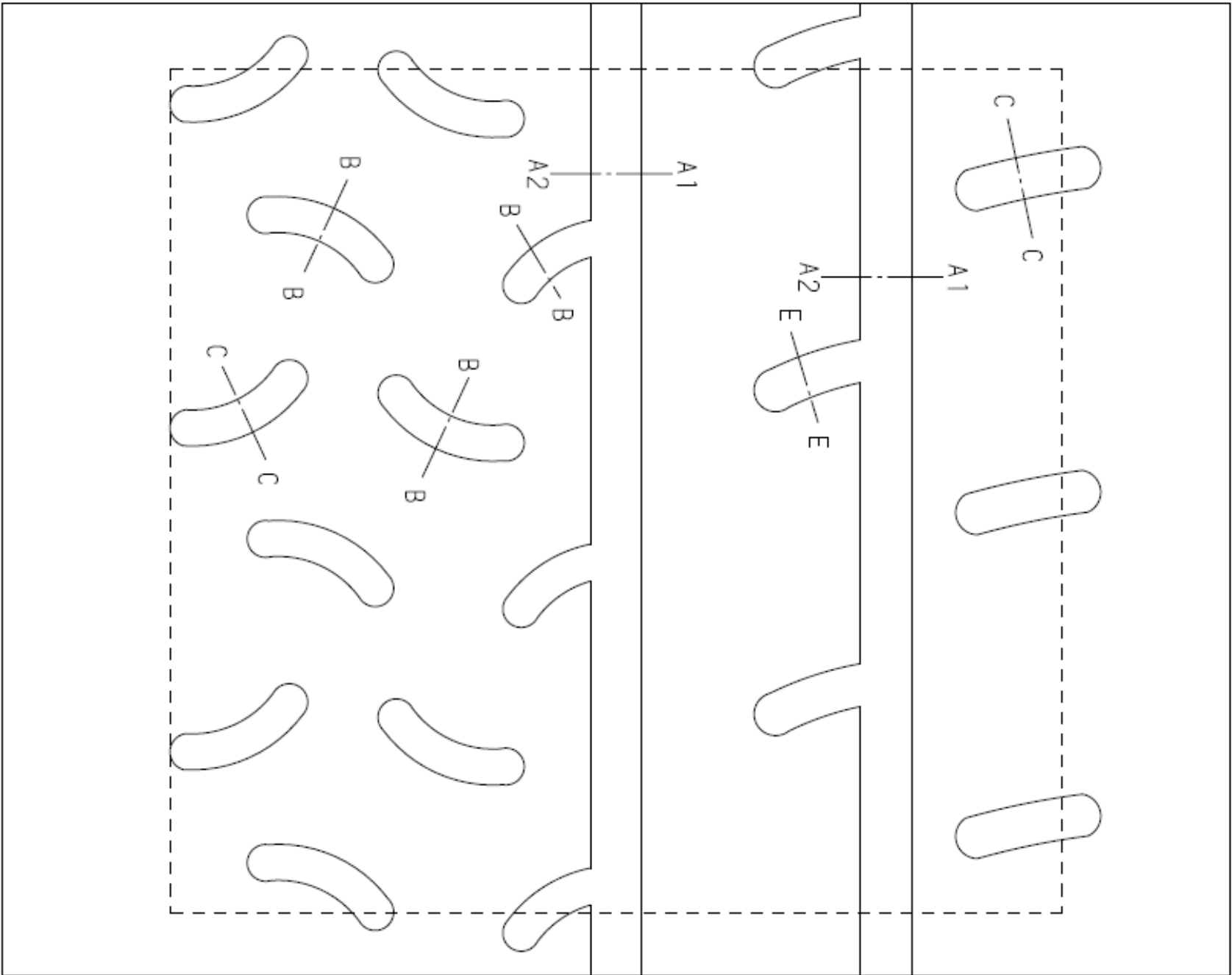
----- Control area 170X140

PRODUCT NAME
YOKOHAMA ADVAN A051T

PATTERN NAME
A051A

SIZE 210/625R17

16" – 190/600-16



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

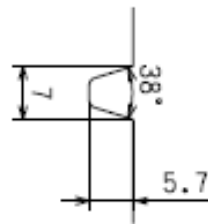
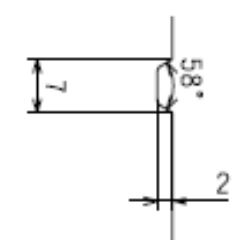
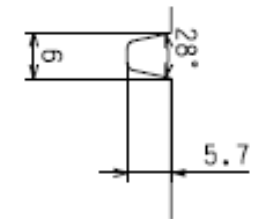
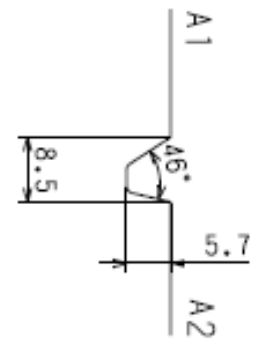
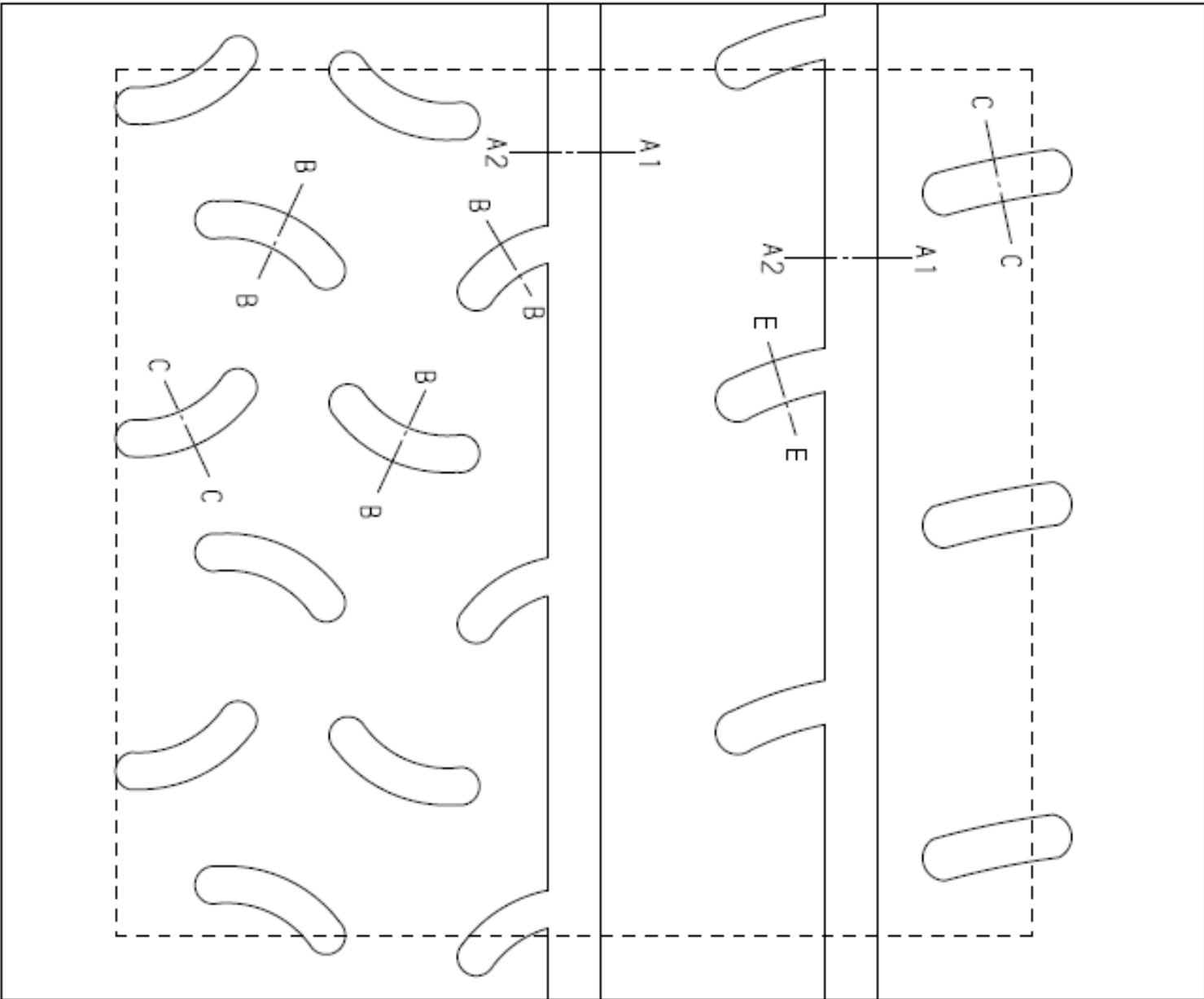
----- Control area 148X140

PRODUCT NAME
YOKOHAMA ADVAN A051T

PATTERN NAME
A051A

SIZE 190/600R16

15" – 190/580-15



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

----- Control area 148X140

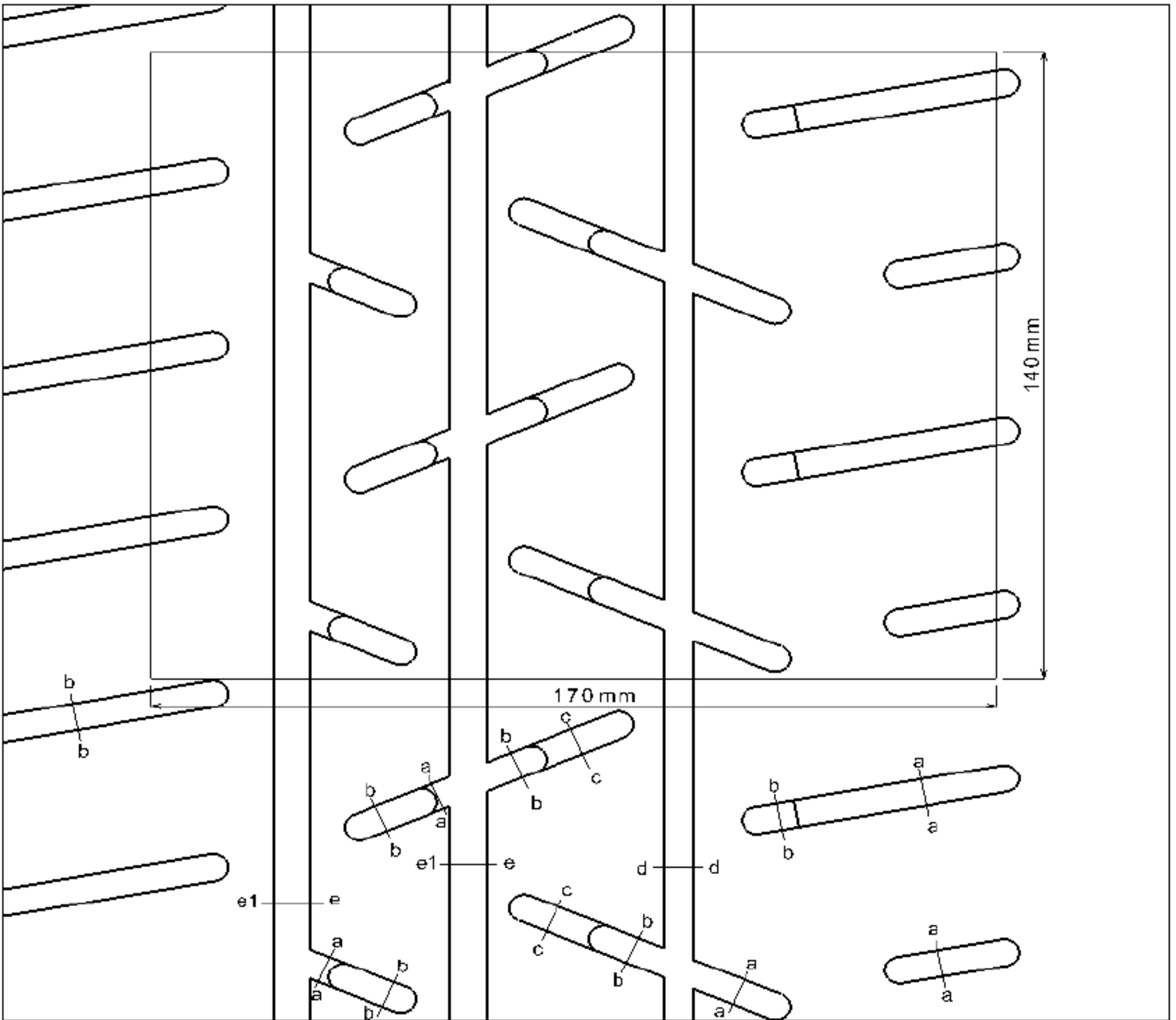
PRODUCT NAME
YOKOHAMA ADVAN A051T

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%

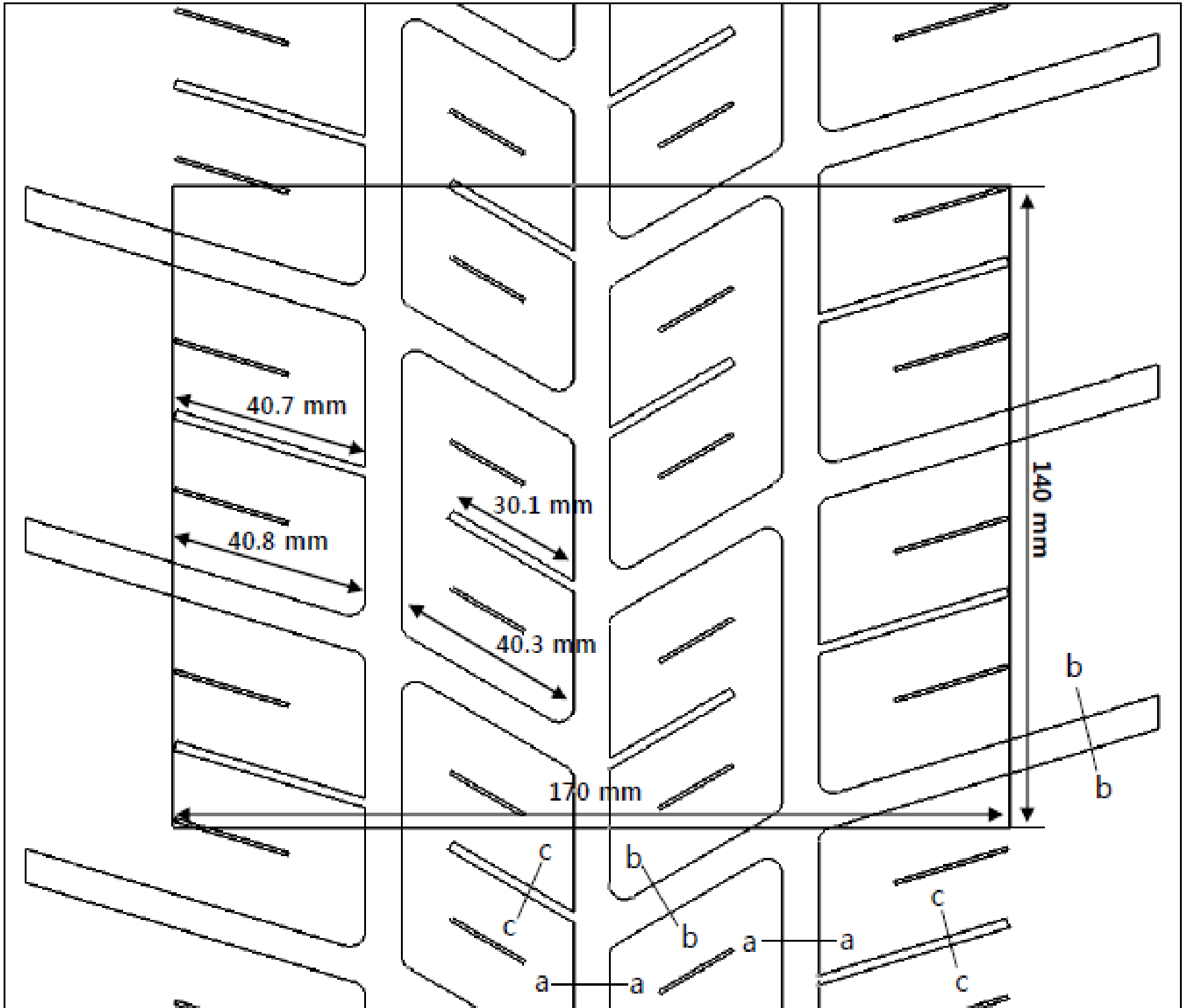
Empty Depth > 1.8mm : 23.30%

GROOVE SURFACE AREA = 554540 mm²

Control Surface = 23800 mm²

18" - 210/650R18

Product : Ventus Z210



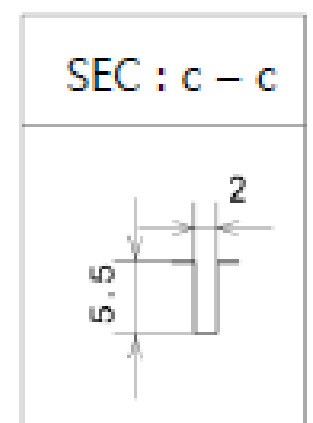
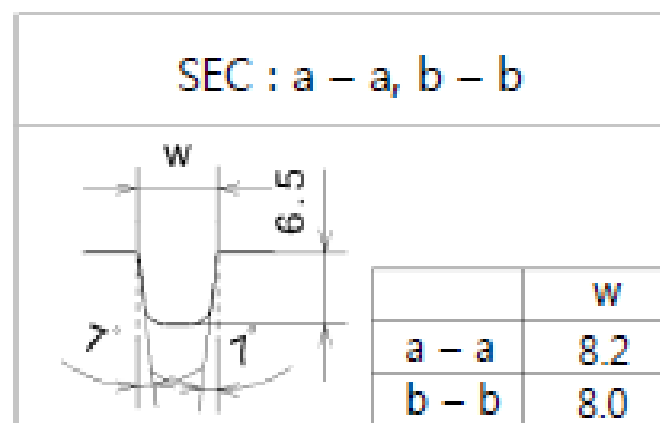
Class 9" (Rim 8")

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

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

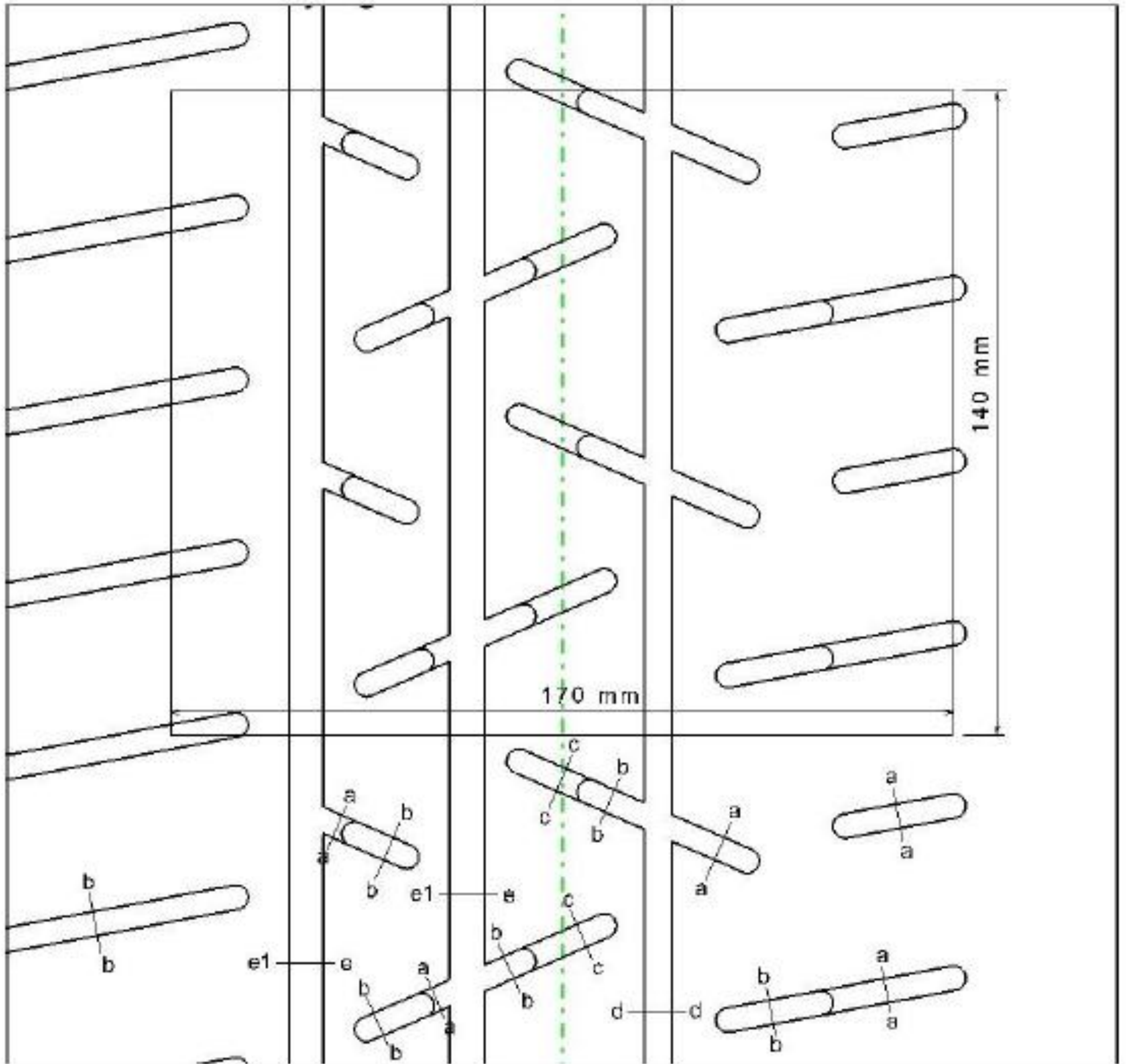
Empty Depth > 5.5mm : 27.5%

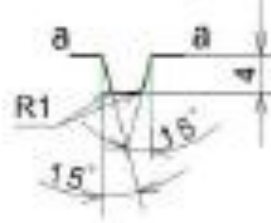
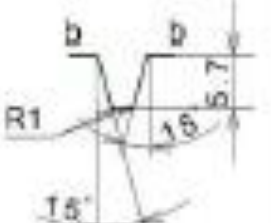
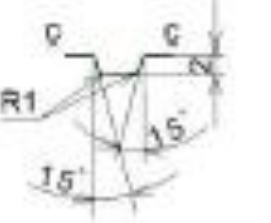
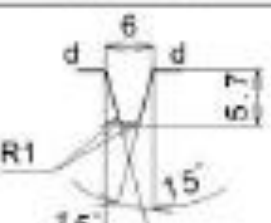
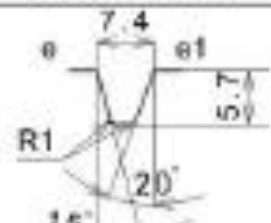
Control Surface = 23800 mm²



17" - 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")

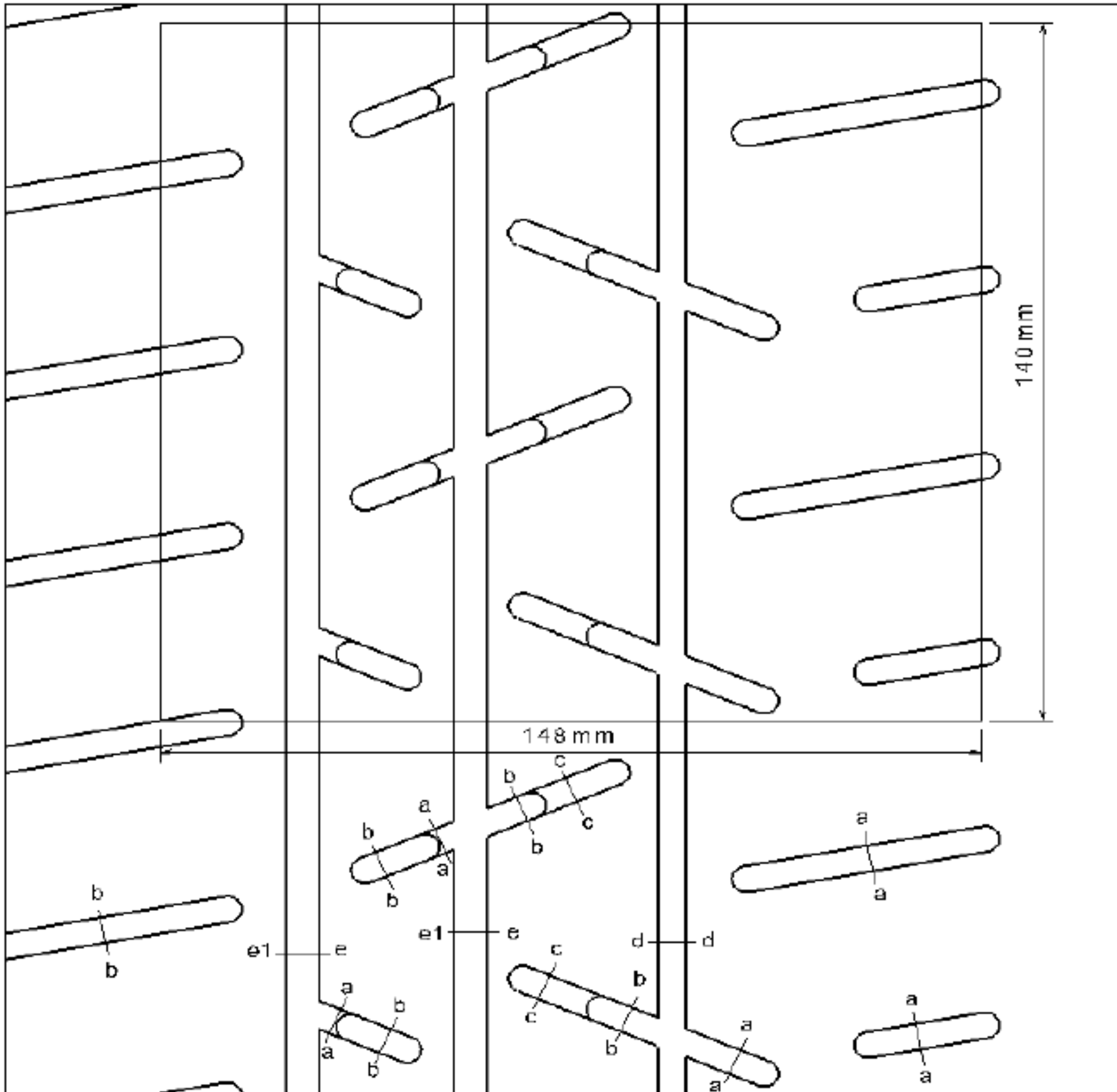
Empty Depth > 5.5mm : 17.05%

Empty Depth > 1.8mm : 25.08%

Control Surface = 23800 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%

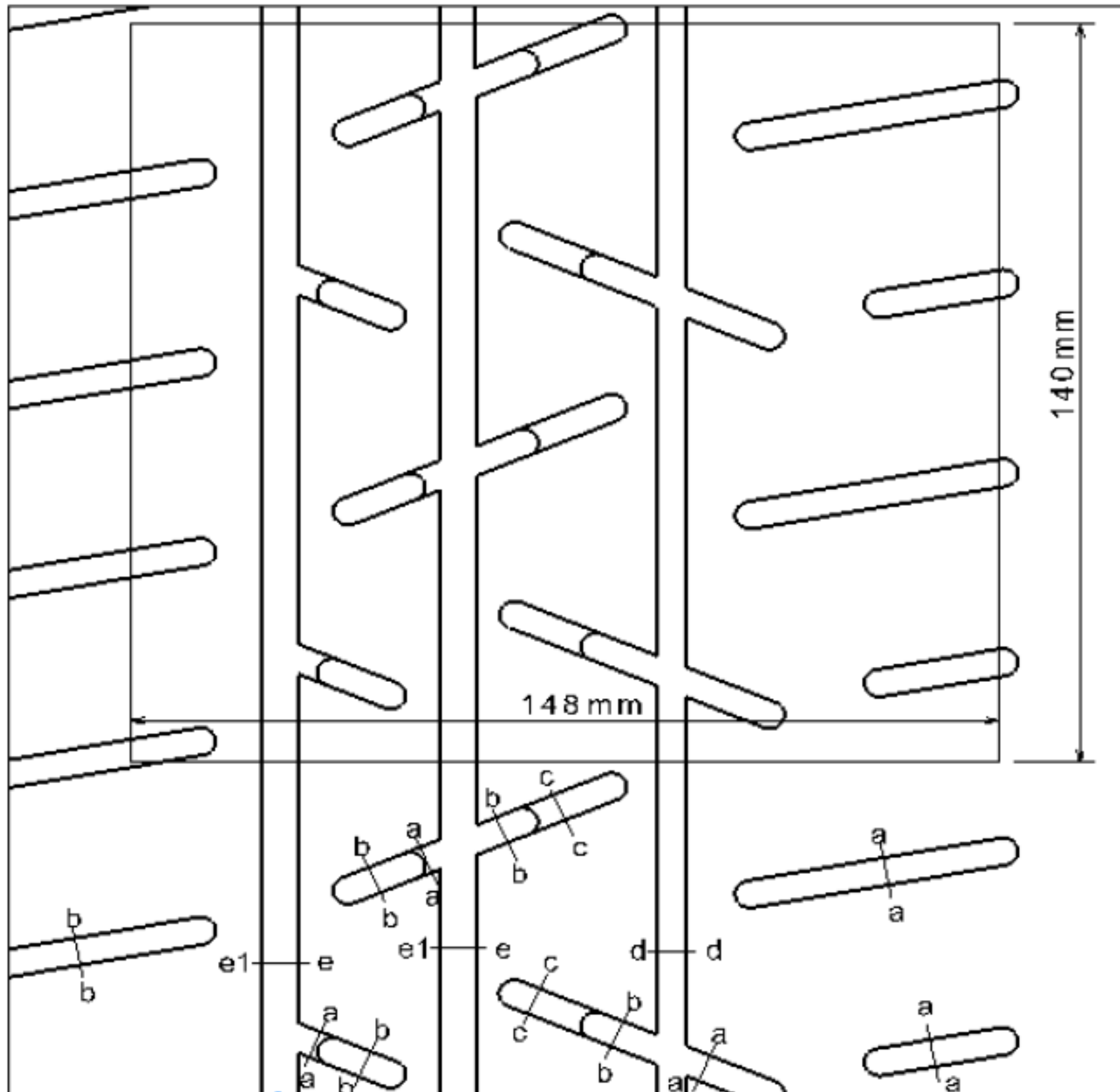
8

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%

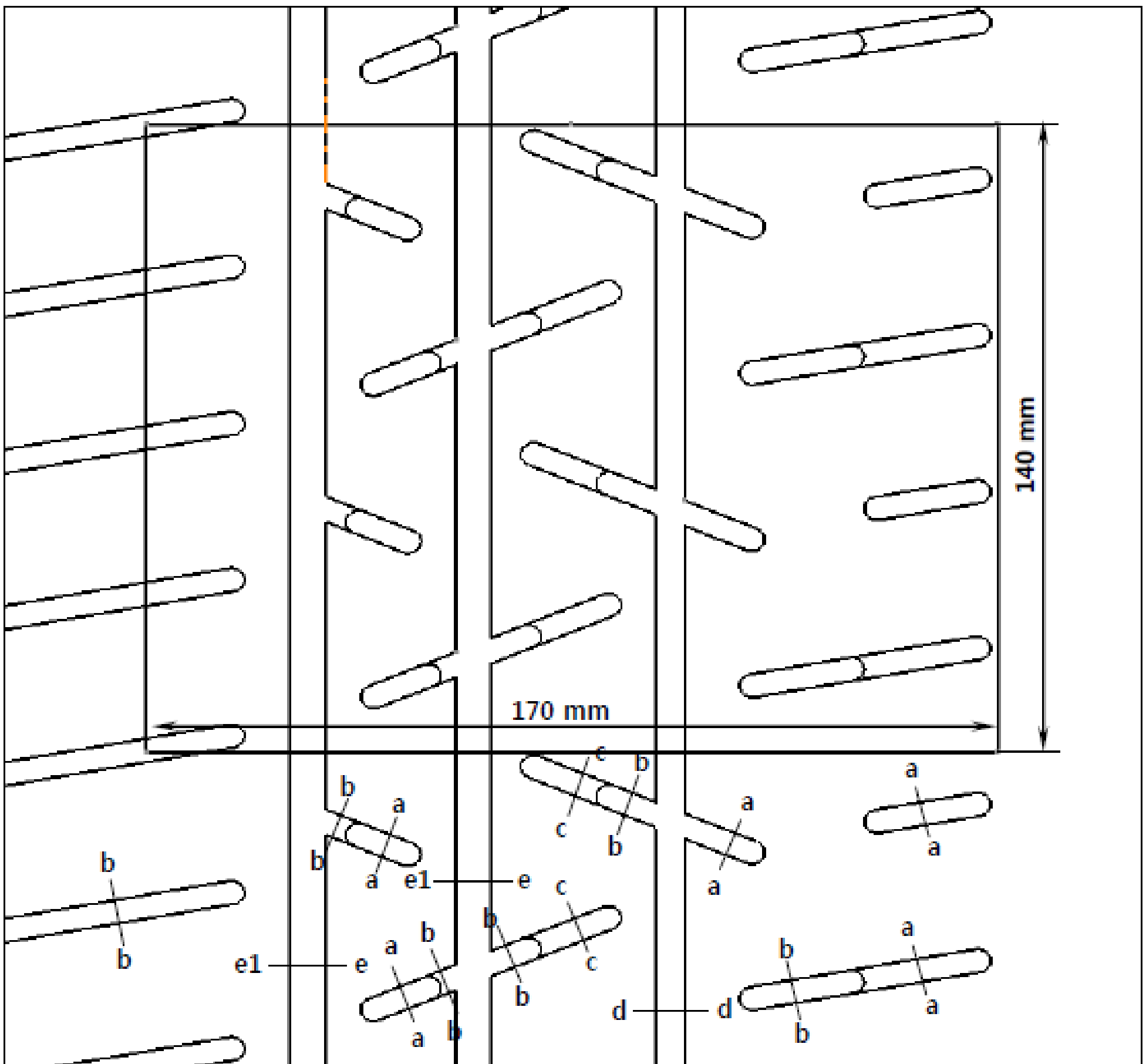
Empty Depth > 1.8mm : 22.95%

GROOVE SURFACE AREA = 358456 mm²

Control Surface = 20720 mm²

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 mm²



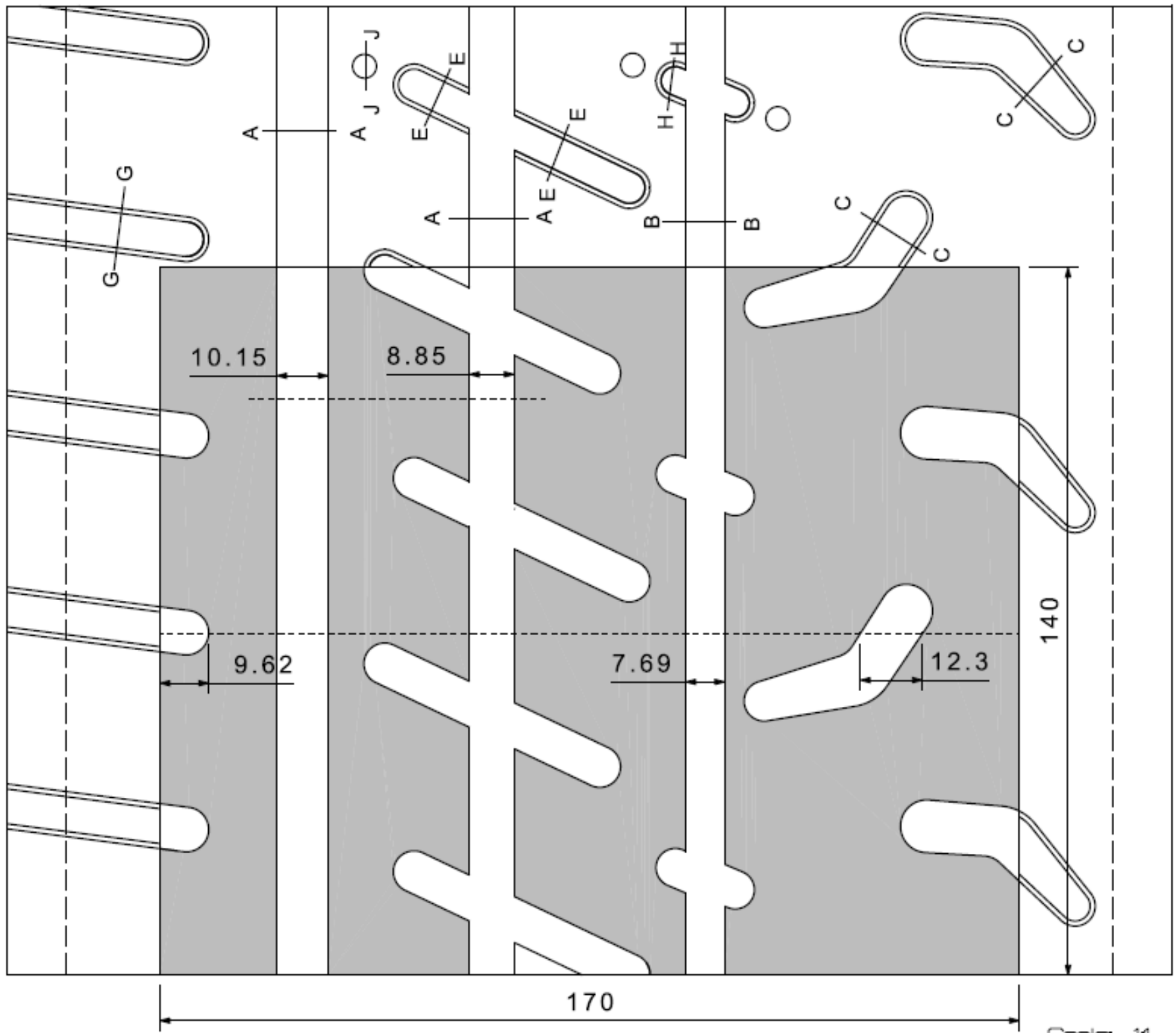
KUMHO TYRES

18" - 210/645R18

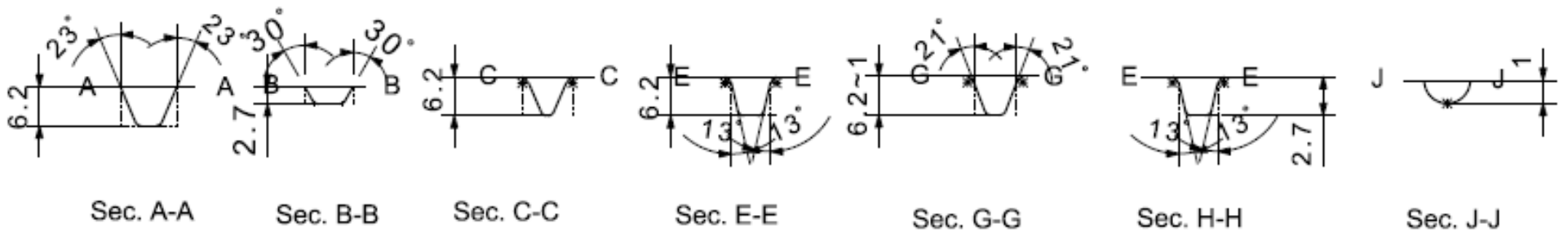
Moulded tyre for FIA homologation
Size : 210/645R18
Pattern : TM01

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%

Date of publication: 19/03/2019

44/60

2019 List of Asphalt eligible tyres



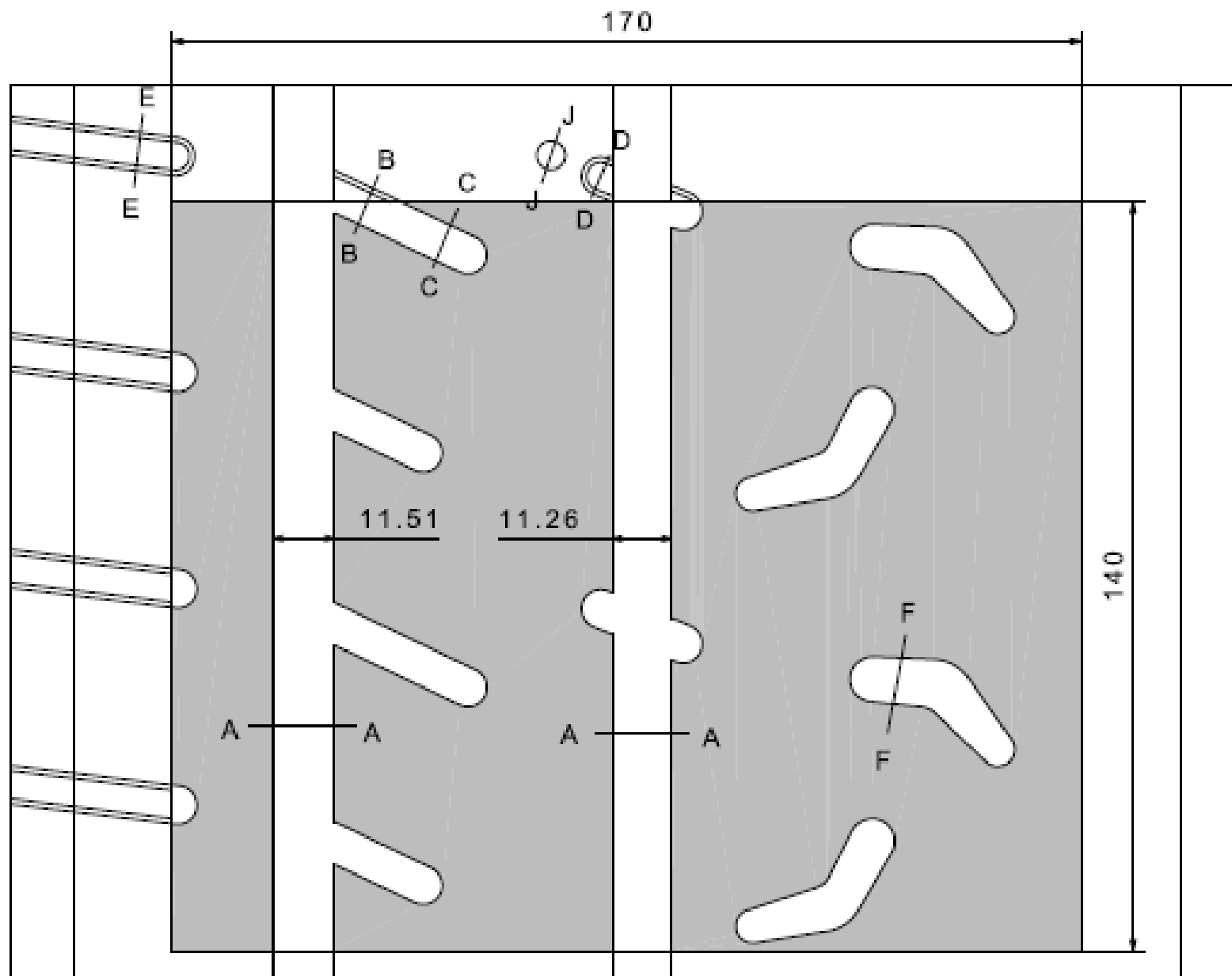
KUMHO TYRES

18" - 210/645R18

KUMHO TIRE

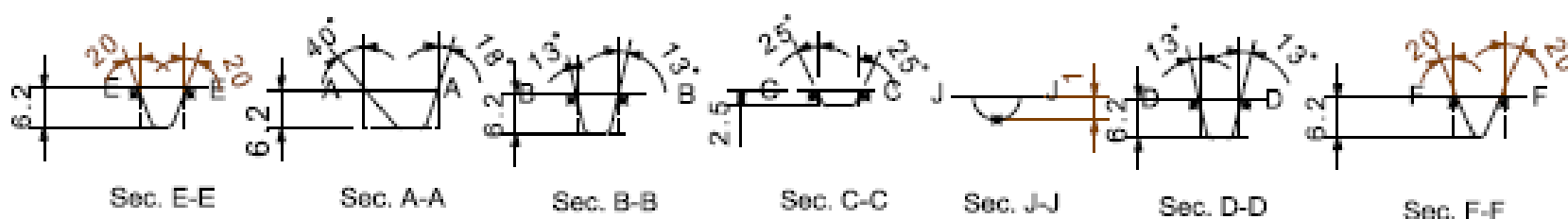
Moulded tyre for FIA homologation
Size : 210/645R18
Pattern : TM02

- 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

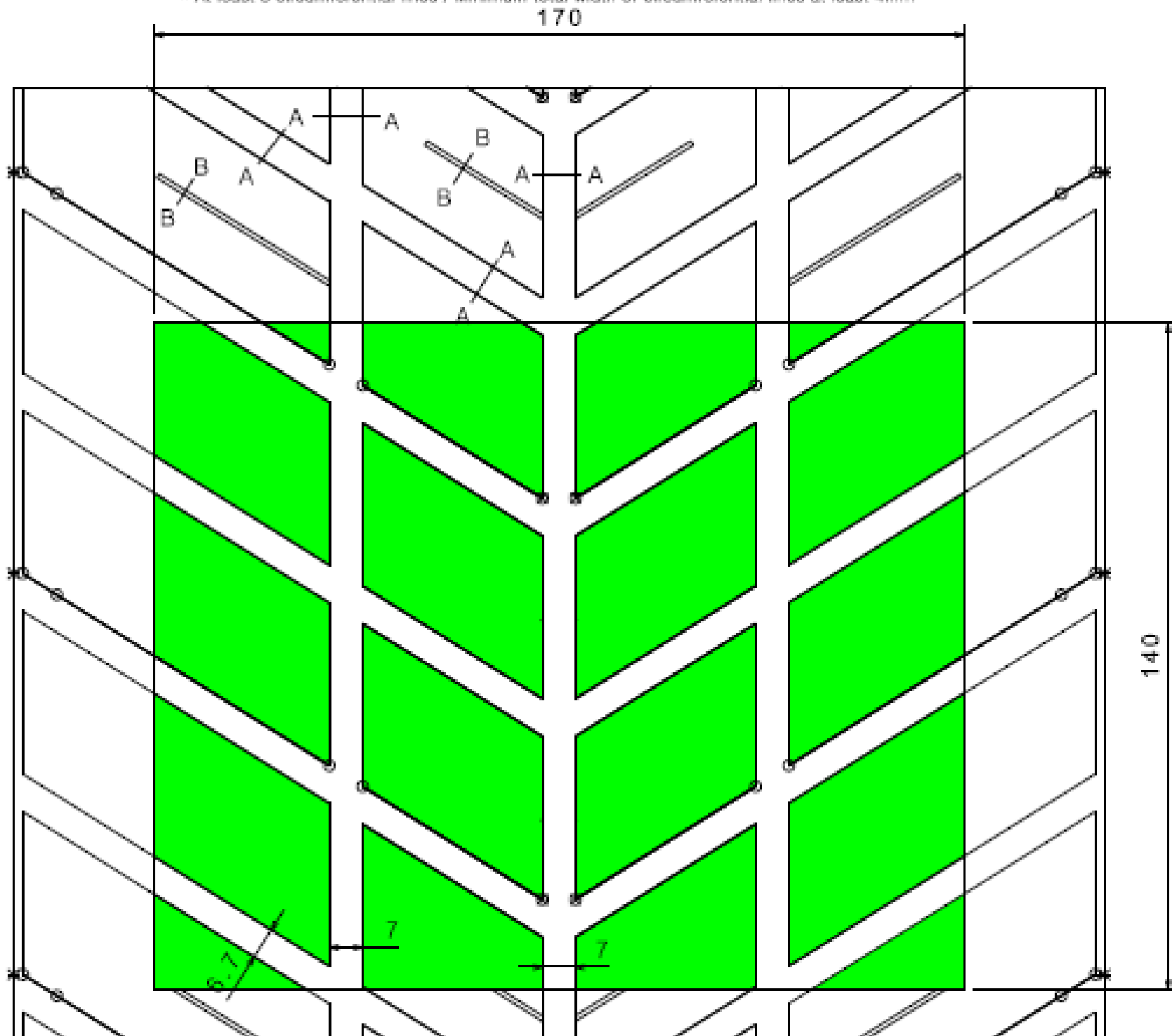
KUMHO TIRE

Moulded tyre for FIA homologation

Size : 210/645R18

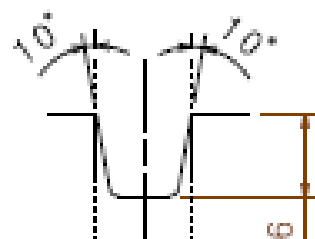
Pattern : TW03

- 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

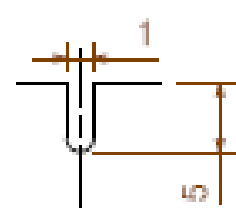


Scale: 1:1

Groove Area by 170 x 140 at least 5.5mm deep : 6789.4mm²
 Void % : 28.5%



SEC.A-A



SEC.B-B



KUMHO TYRES

17" - 190/630R17

KUMHO TIRE

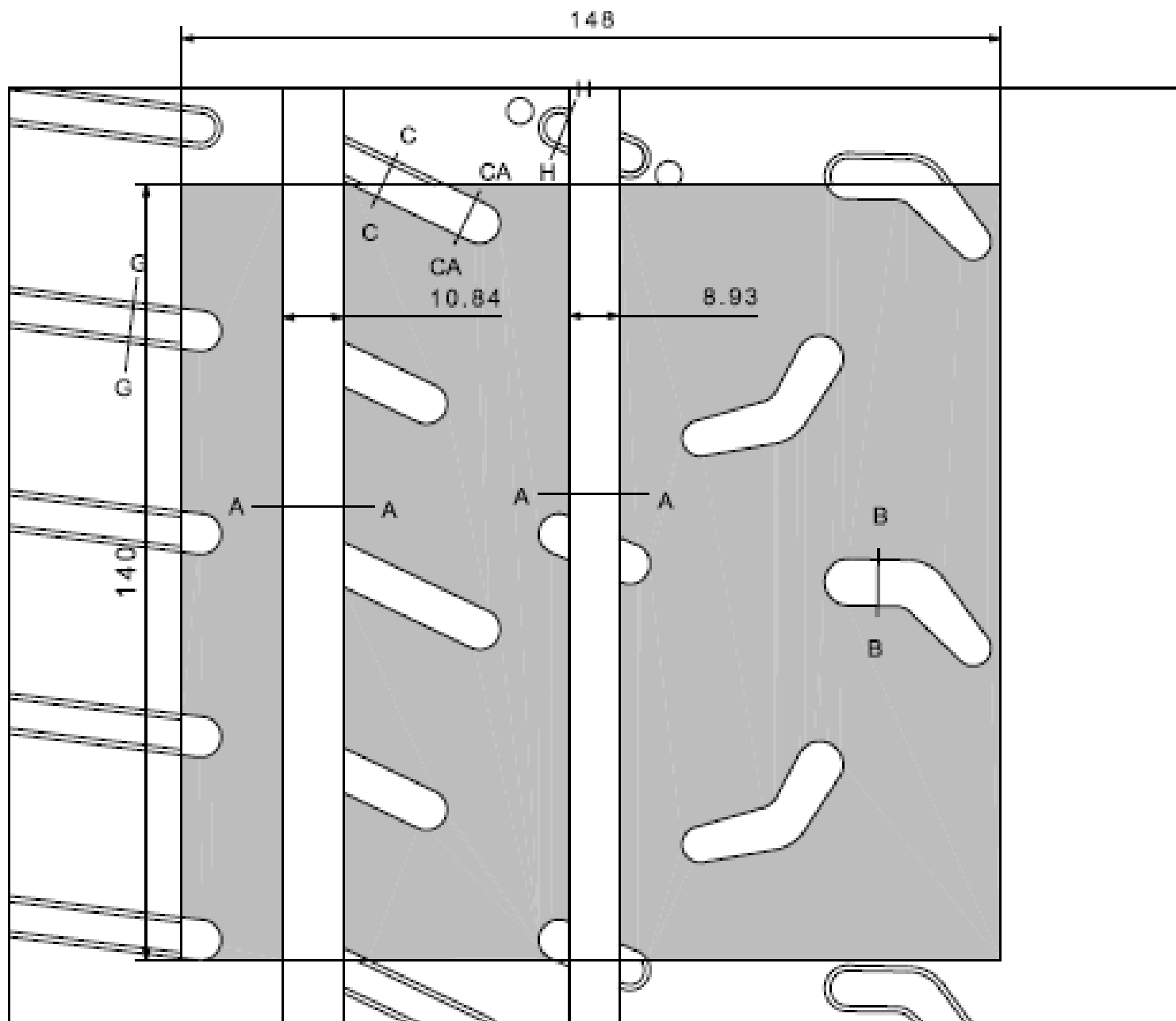
Moulded tyre for FIA homologation

Size : 190/630 R17

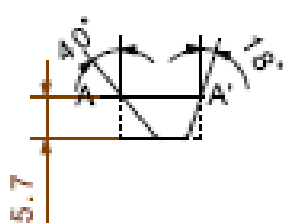
Pattern : TM02

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

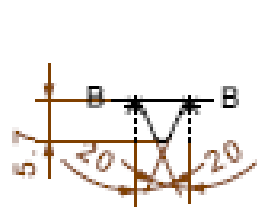
- The surface taken up by grooves at least 5.5 mm deep, with a maximum angle of 60° between the block in section and 2mm wide, must occupy at least 17% of the total surface.
- The surface taken up by grooves at least 1.8 mm deep, with a maximum angle of 60° between the block in section and 2mm wide,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



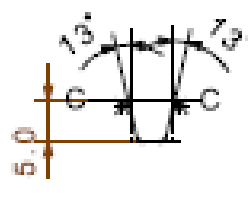
Groove Area by 148 x 140 at least 1.8mm deep : 4579.1mm²
 Void % : 22.1%
 Groove Area by 148 x 140 at least 5.5mm deep : 3688.1mm²
 Void % : 17.8%



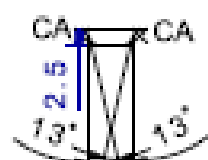
Sec. A-A'



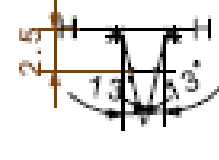
Sec. B-B



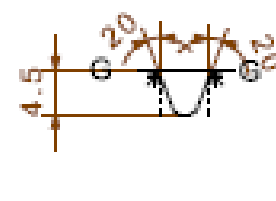
Sec. C-C



Sec. CA-CA



Sec. H-H



Sec. G-G



KUMHO TYRES

16" - 190/600R16

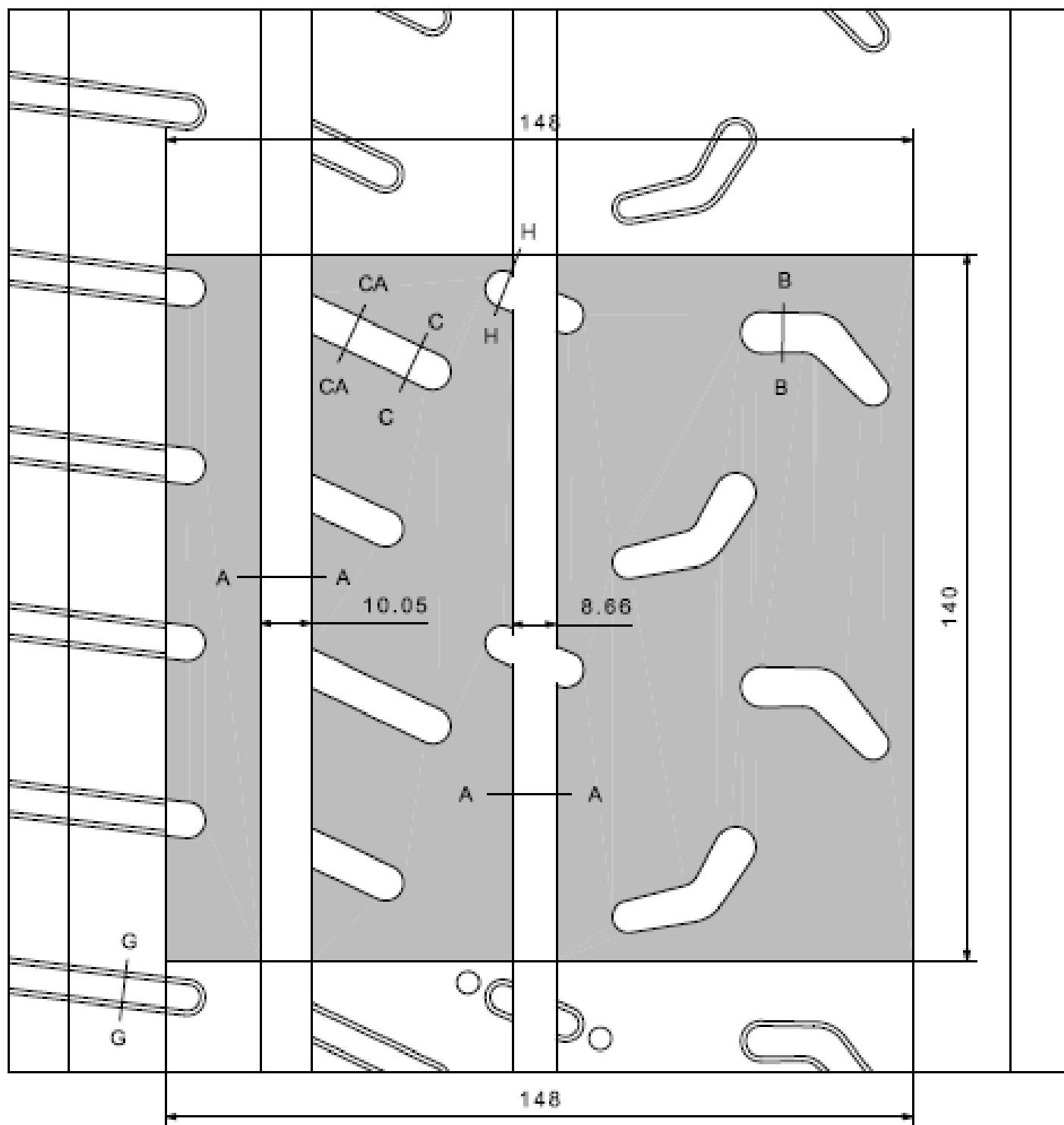
KUMHO TIRE

Moulded tyre for FIA homologation

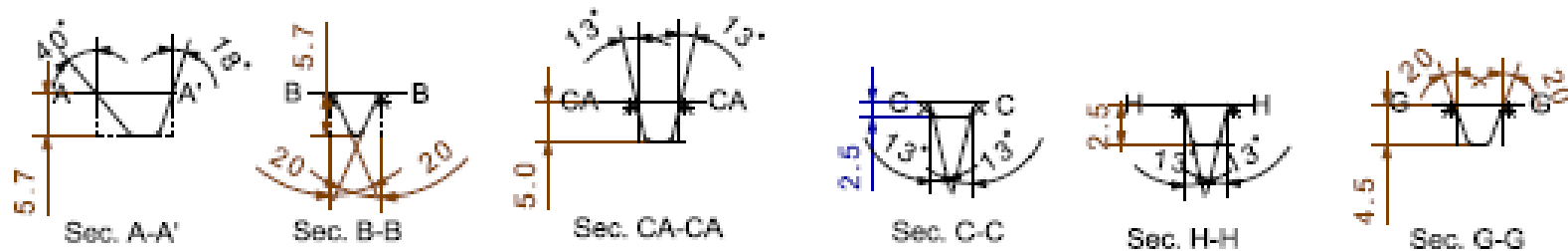
Size : 190/600 R16

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

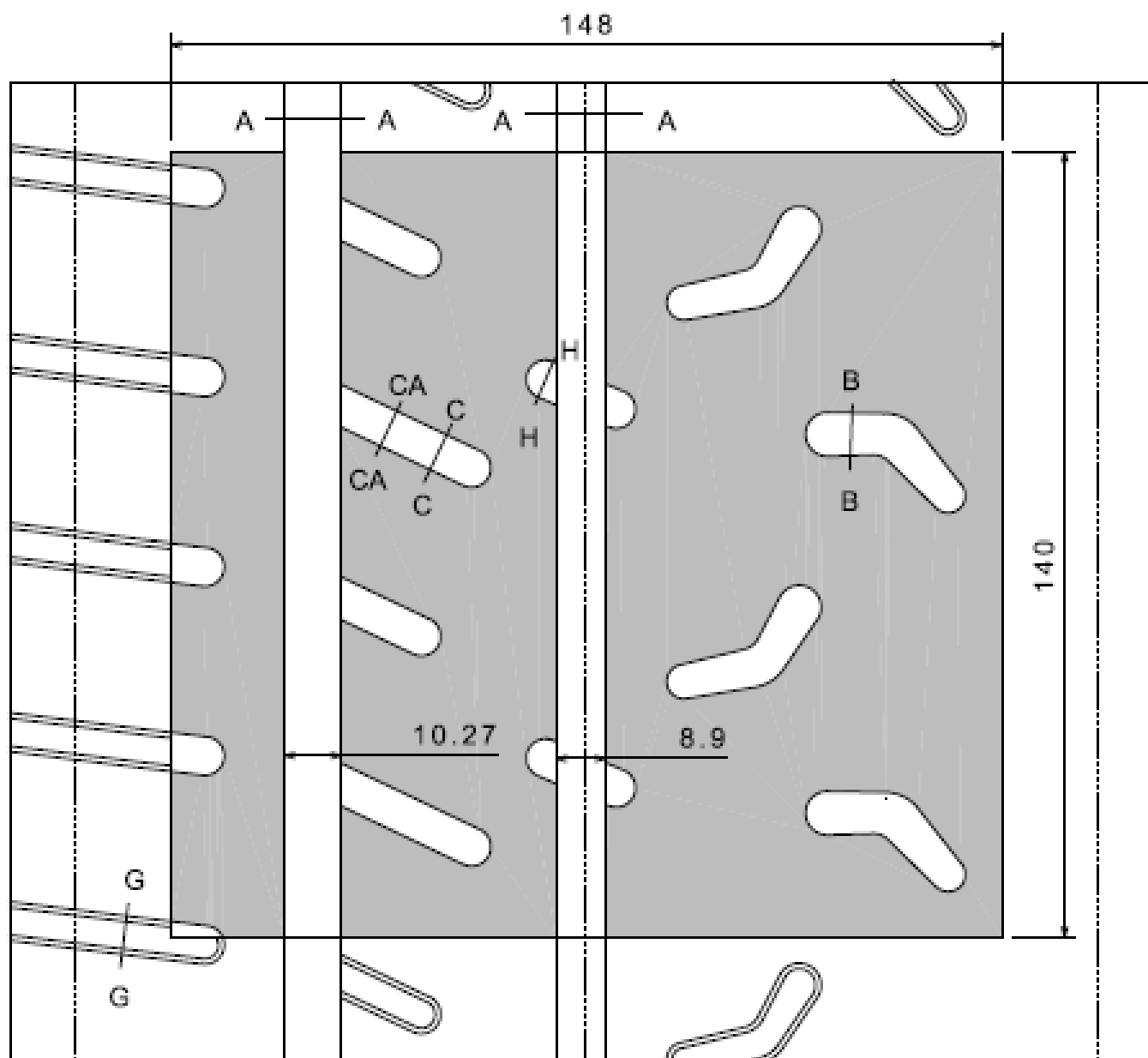
KUMHO TIRE

Moulded tyre for FIA homologation

Size : 180/580 R15

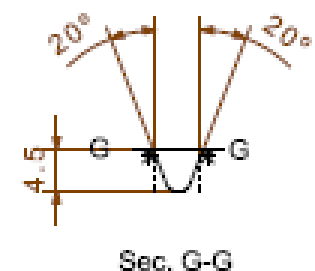
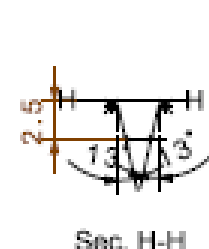
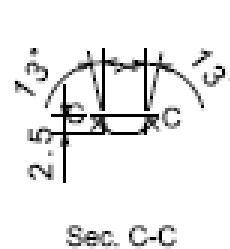
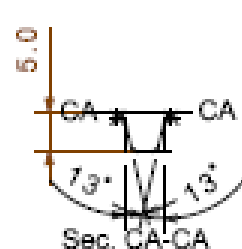
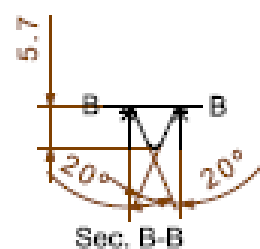
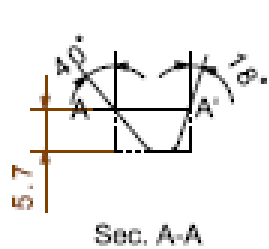
Pattern : TM02

- 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

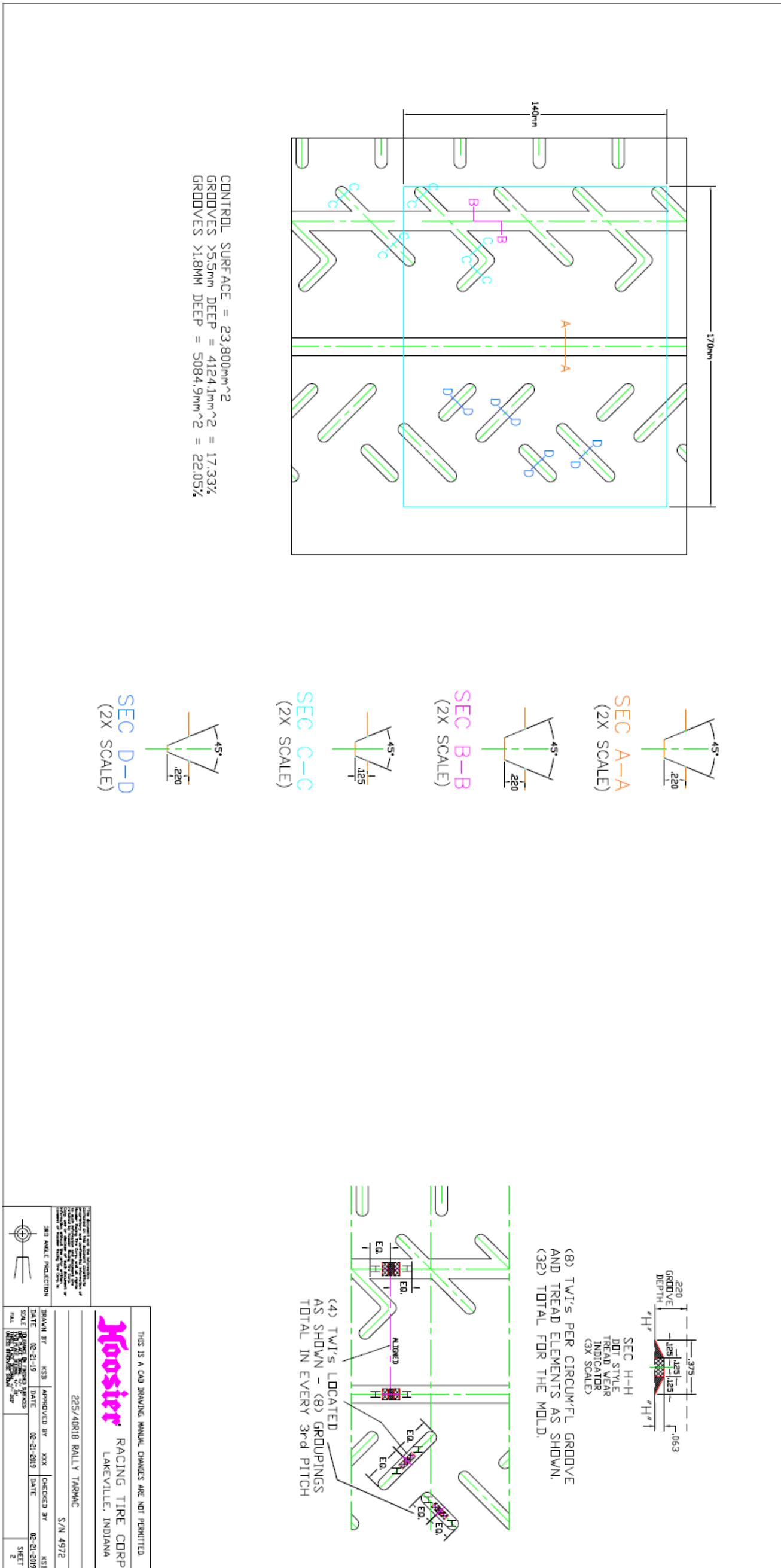


Scale 1:1

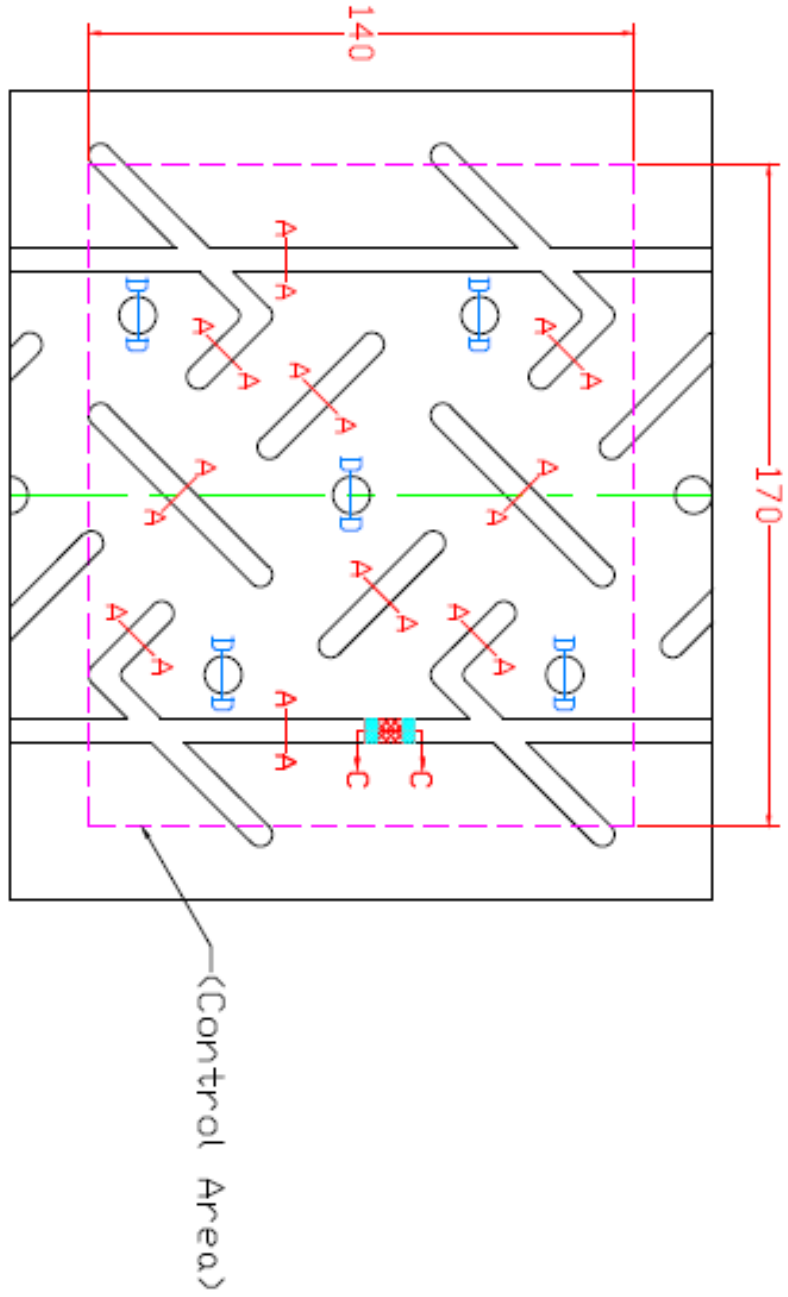
Groove Area by 148 x 140 at least 1.8mm deep : 4599.8mm²
 Void % : 22.2%
 Groove Area by 148 x 140 at least 5.5mm deep : 3563.8mm²
 Void % : 17.2%



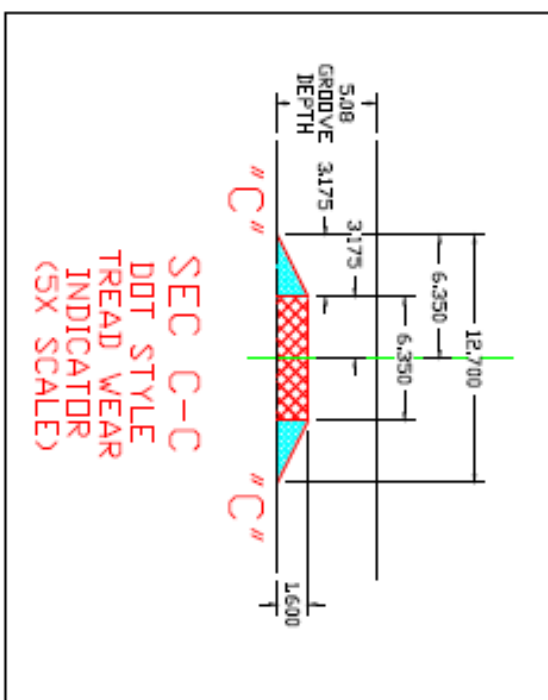
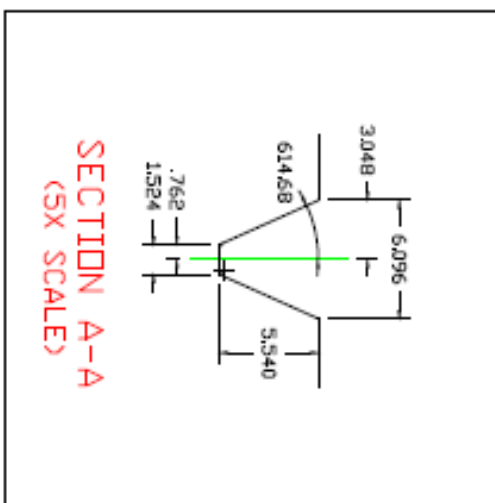
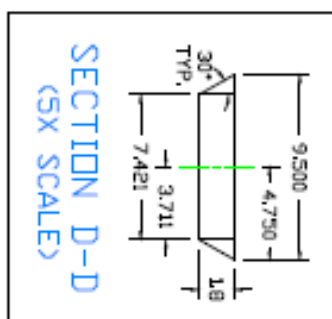
18" - 225/40R18



<UNITS = METRIC>



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



REV	1	-
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3RD ANGLE PROJECTION

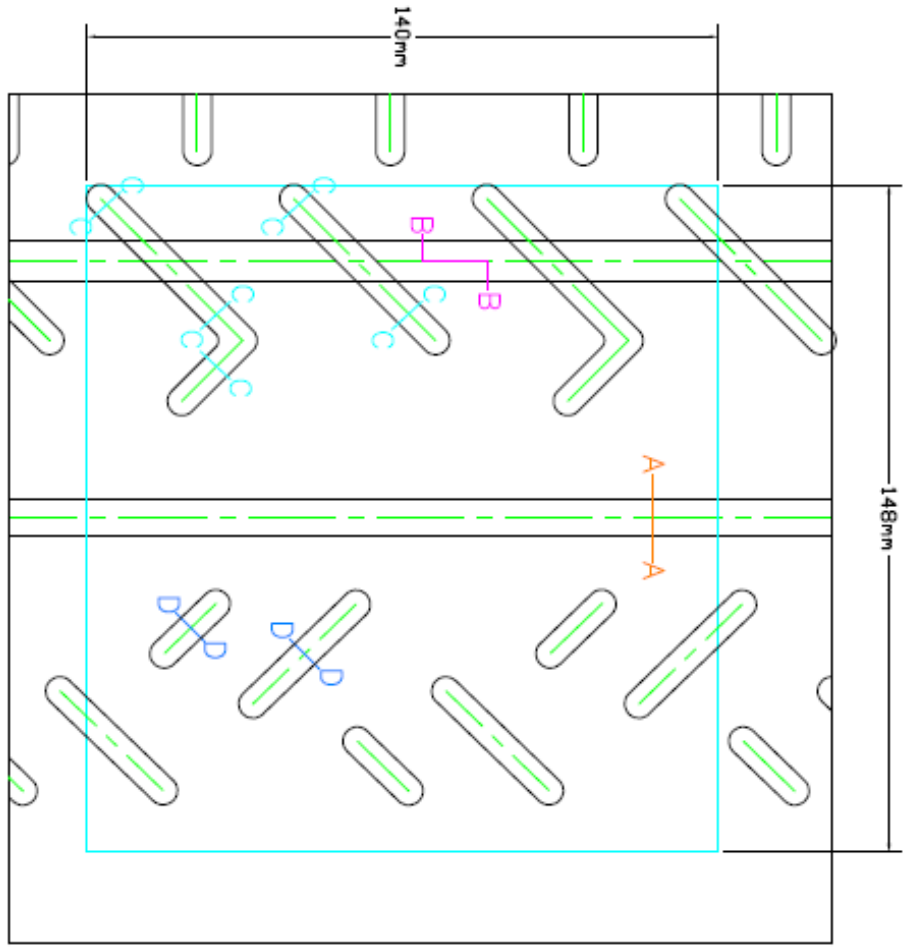
THIS IS A CAD DRAWING. MANUAL CHANGES ARE NOT PERMITTED.

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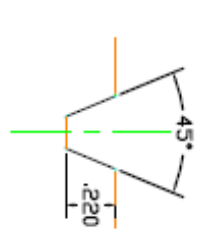
F.I.A. COMPLIANCE FOR '200/650R18'
ROAD RALLY

S/N 4770

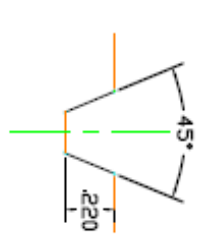
DRAWN BY	TDC	APPROVED BY	XXX	CHECKED BY	XXX
DATE	03/06/2015	DATE	XX/XX/XXXX	DATE	XX/XX/XXXX
SCALE	1:1	SCALE	1:1	SCALE	1:1
FULL	18" X 18" X 18"	FULL	18" X 18" X 18"	FULL	18" X 18" X 18"
SHEET	2	OF	2	SHEET	2
OF	2	OF	2	OF	2



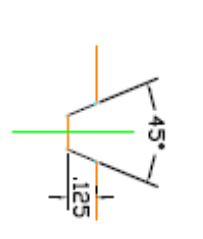
CONTROL SURFACE = $20,720\text{mm}^2$
 GROOVES $>5.5\text{mm}$ DEEP = 3617.7mm^2 = 17.46%
 GROOVES $>1.8\text{mm}$ DEEP = 4638.2mm^2 = 22.39%



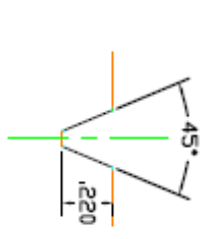
SEC A-A
(2X SCALE)



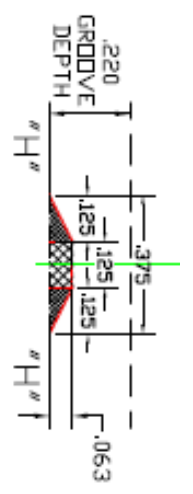
SEC B-B
(2X SCALE)



SEC C-C
(2X SCALE)

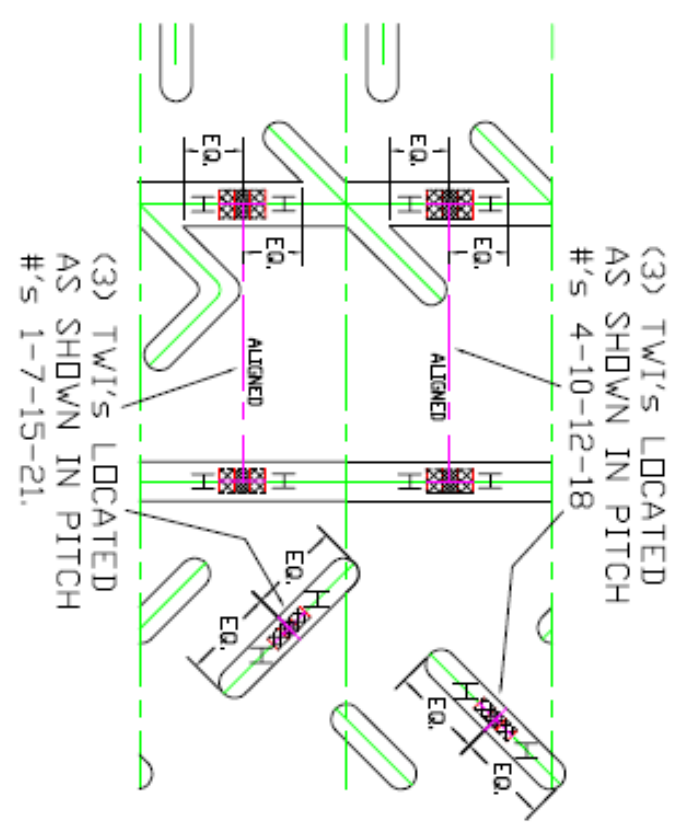


SEC D-D
(2X SCALE)



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.



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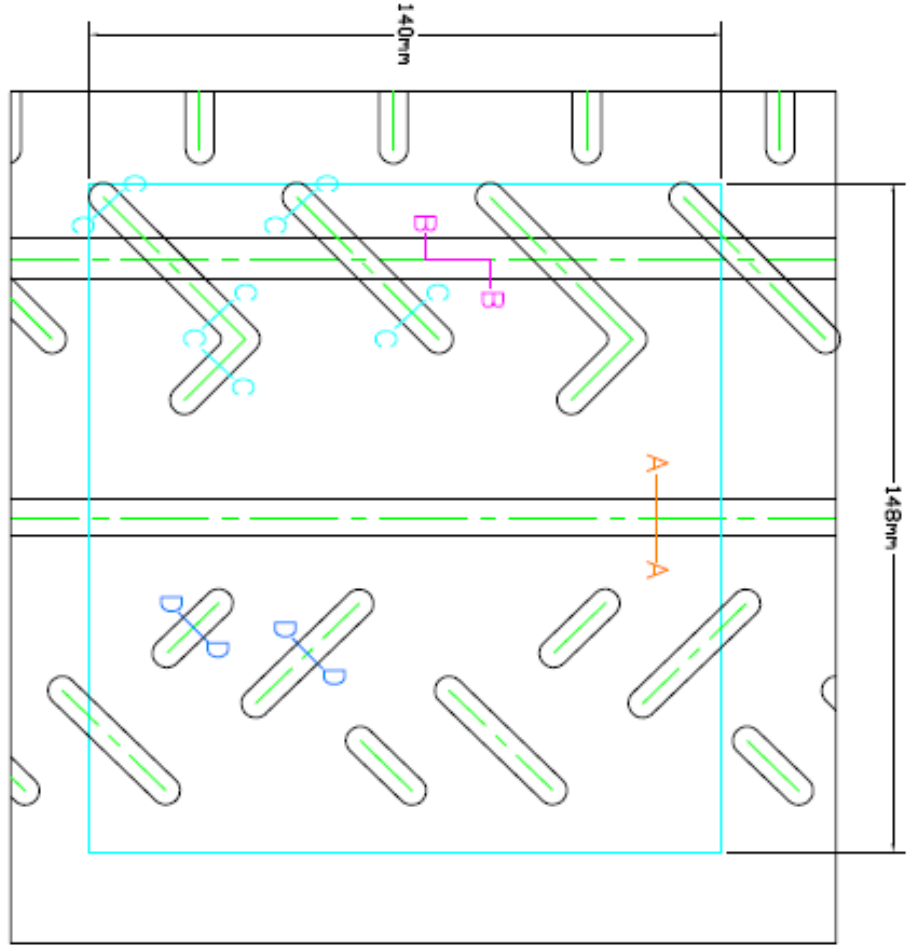
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Hoosier RACING TIRE CORP.
LAKEVILLE, INDIANA

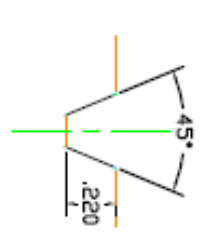
195/50R17 TARMAC RALLY S/N 4927

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	INCH	FULL	MILL	FULL	MILL

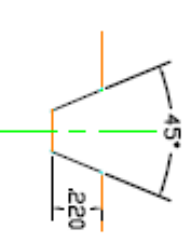
SHEET 1



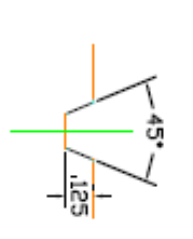
CONTROL SURFACE = 20,720mm²
 GROOVES >5.5mm DEEP = 3617.7mm² = 17.46%
 GROOVES >1.8MM DEEP = 4638.2mm² = 22.39%



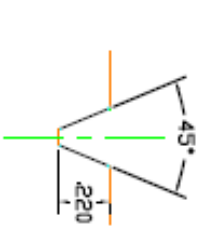
SEC A-A
(2X SCALE)



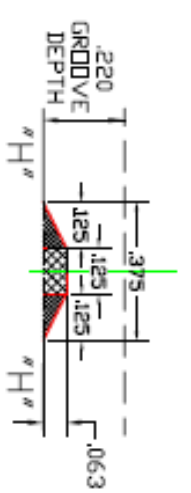
SEC B-B
(2X SCALE)



SEC C-C
(2X SCALE)



SEC D-D
(2X SCALE)

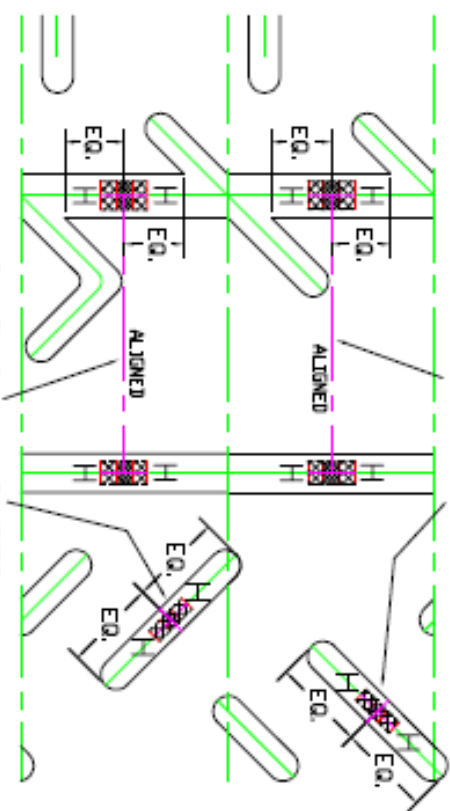


SEC H-H
DOT STYLE
TREAD WEAR
INDICATOR
(3X SCALE)

(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.



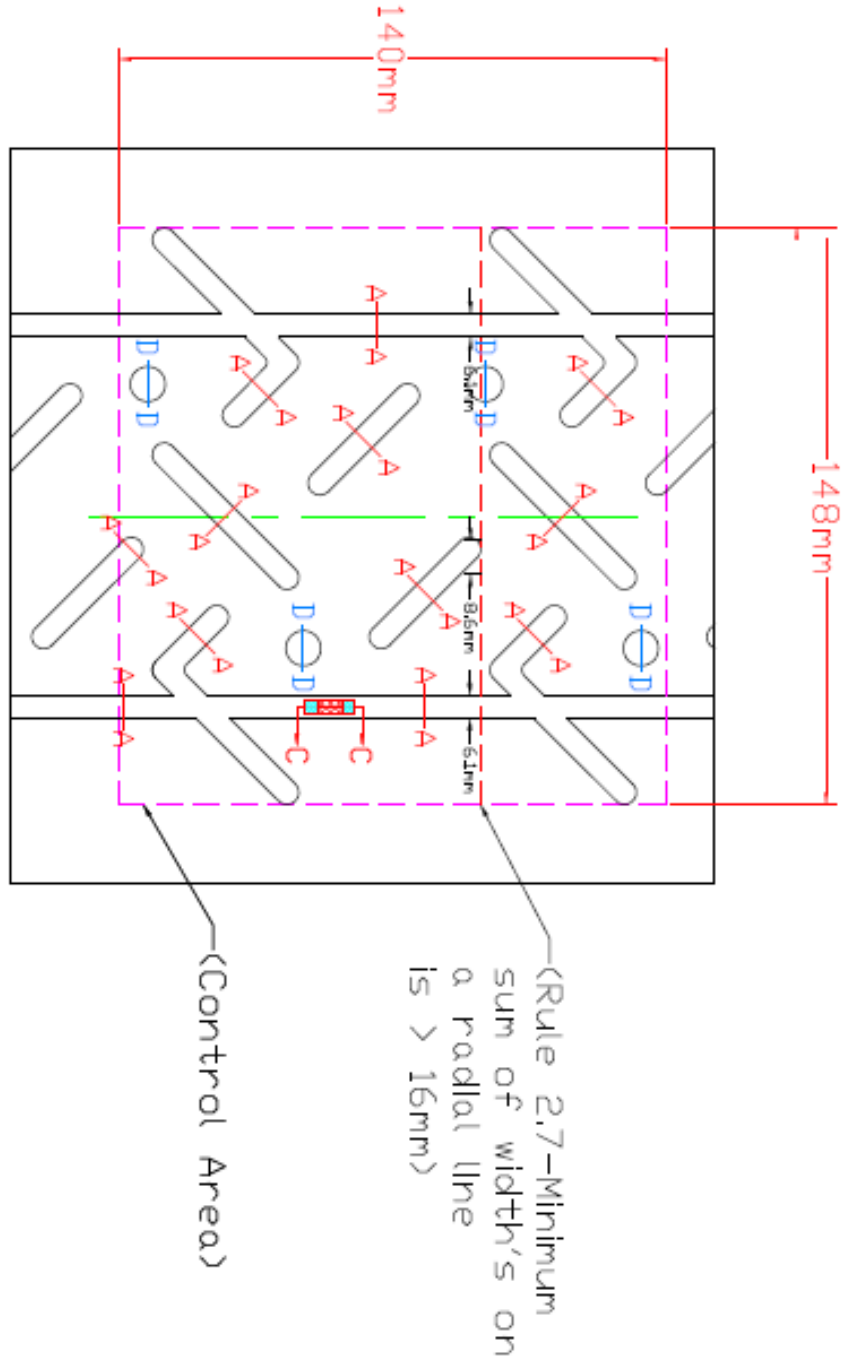
THIS IS A CAD DRAWING. MANUAL CHANGES ARE NOT PERMITTED.

Hoosier RACING TIRE CORP.
LAKEVILLE, INDIANA

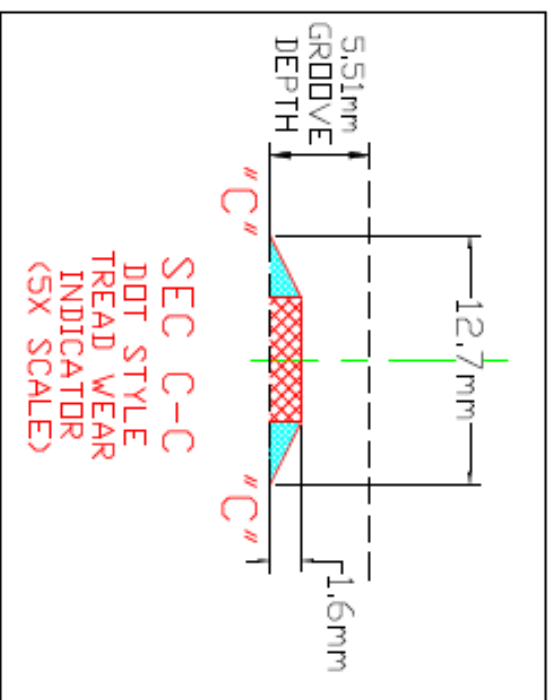
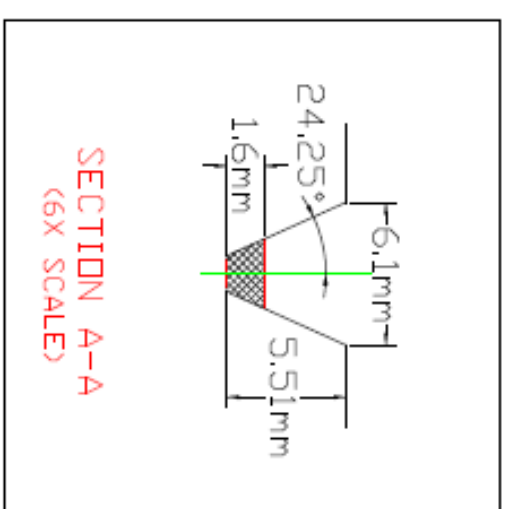
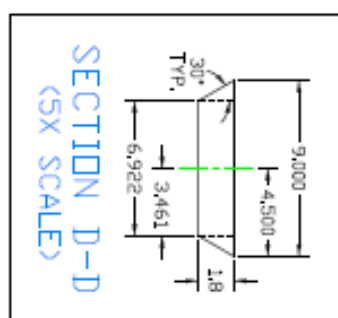
195/50R16 TARMAC RALLY S/N 4926

DRAWN BY	KSB	APPROVED BY	XXX	CHECKED BY	KSB
DATE	04-09-2018	DATE	XX-XX-XXXX	DATE	04-09-2018
SCALE	1:1				
FULL	195/50R16 TARMAC RALLY				

3RD ANGLE PROJECTION



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



3RD ANGLE PROJECTION



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

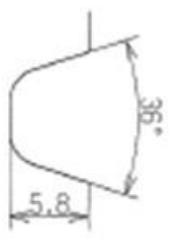
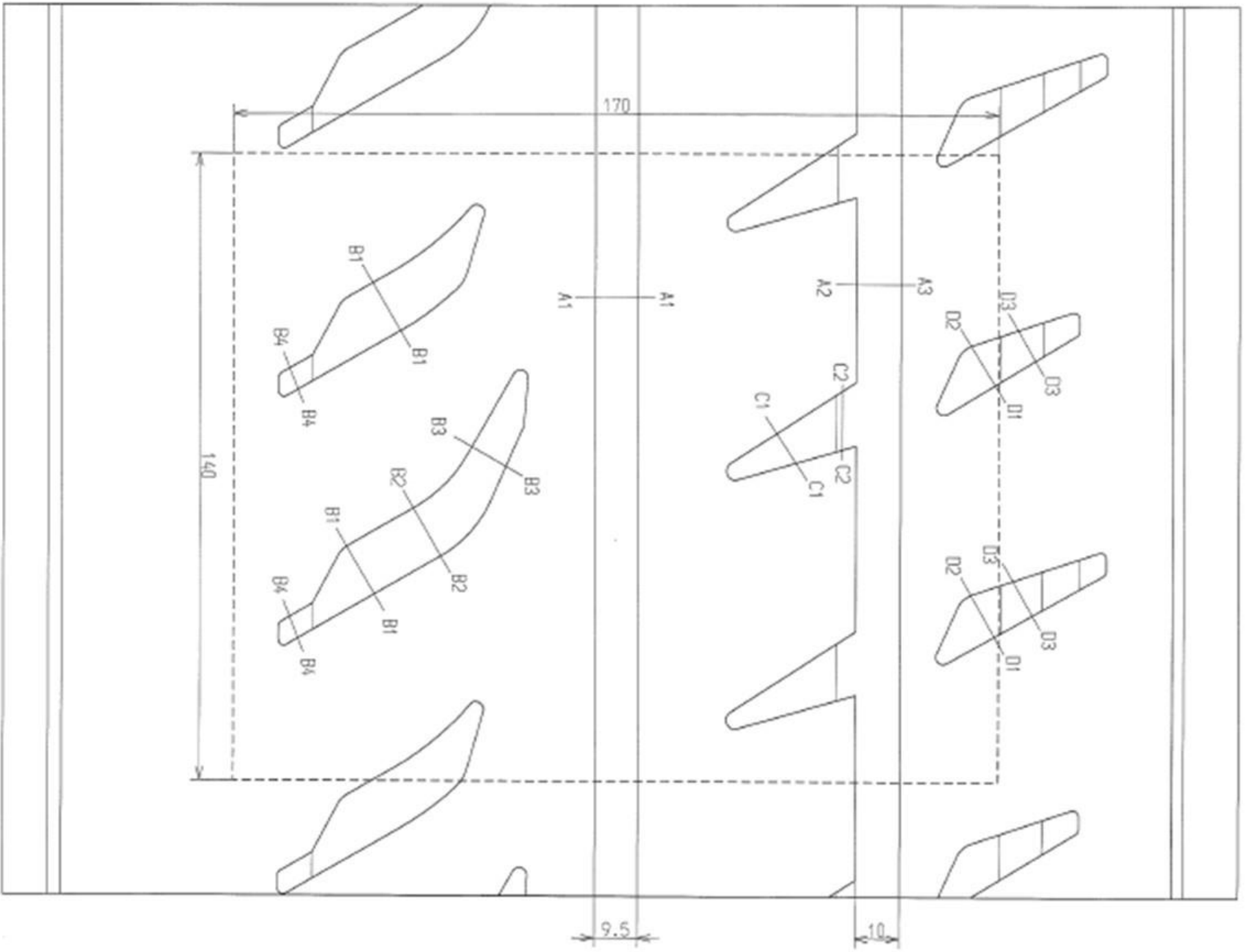
Hoosier RACING TIRE CORP.
LAKEVILLE, INDIANA

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

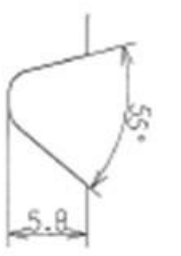
S/N 4854

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:	AS SHOWN	SCALE:	AS SHOWN
SHEET:	1	SHEET:	1	SHEET:	1

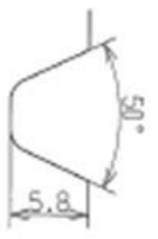
18" - 205/640R18



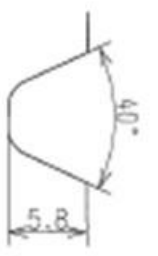
SEC.A1-A1



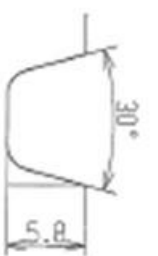
SEC.A2-A3



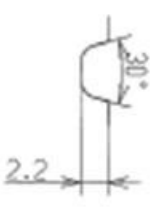
SEC.B1-B1



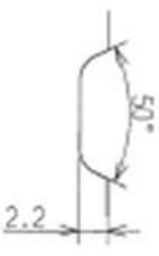
SEC.B2-B2



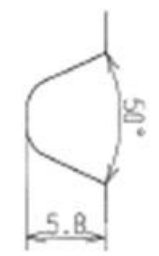
SEC.B3-B3



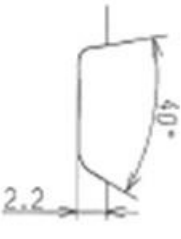
SEC.B4-B4



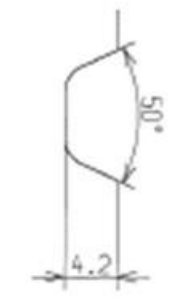
SEC.C1-C1



SEC.C2-C2



SEC.D1-D2



SEC.D3-D3

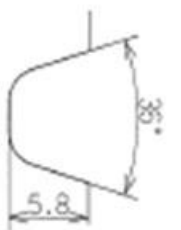
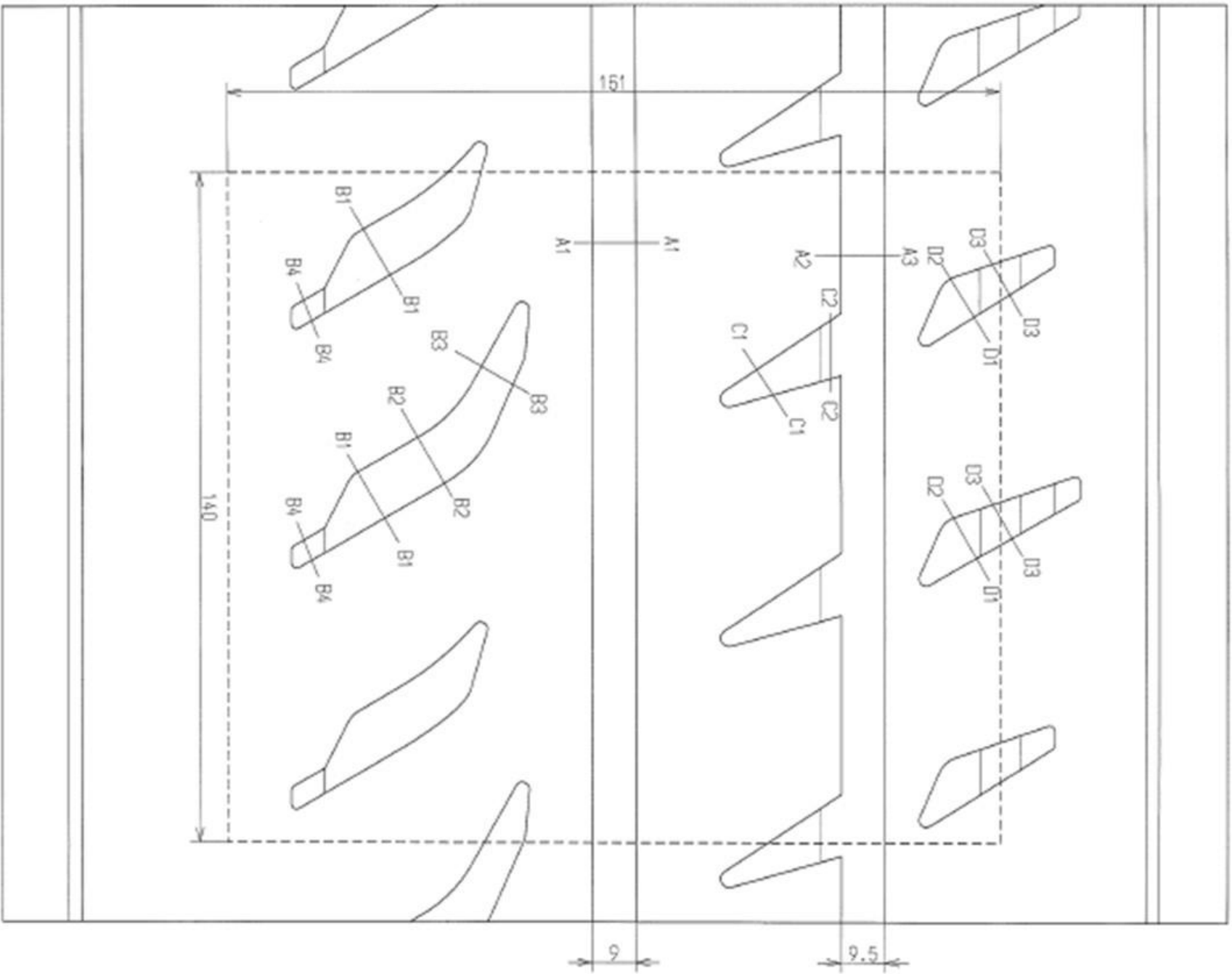
In the control area
5.5mm grooves-18.2%
Total grooves 22.3%

-----Control area(170x140)

PRODUCT NAME
TOYO PROXES 888RT

SIZE 205/640R18

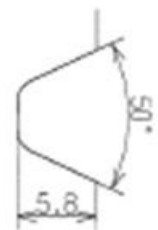
15" - 185/580R15



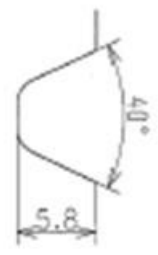
SEC.A1-A1



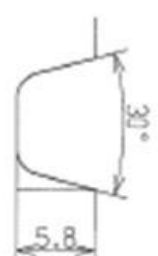
SEC.A2-A3



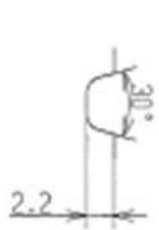
SEC.B1-B1



SEC.B2-B2



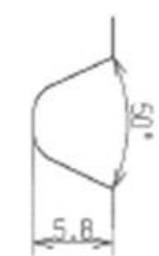
SEC.B3-B3



SEC.B4-B4



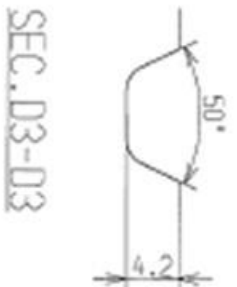
SEC.C1-C1



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

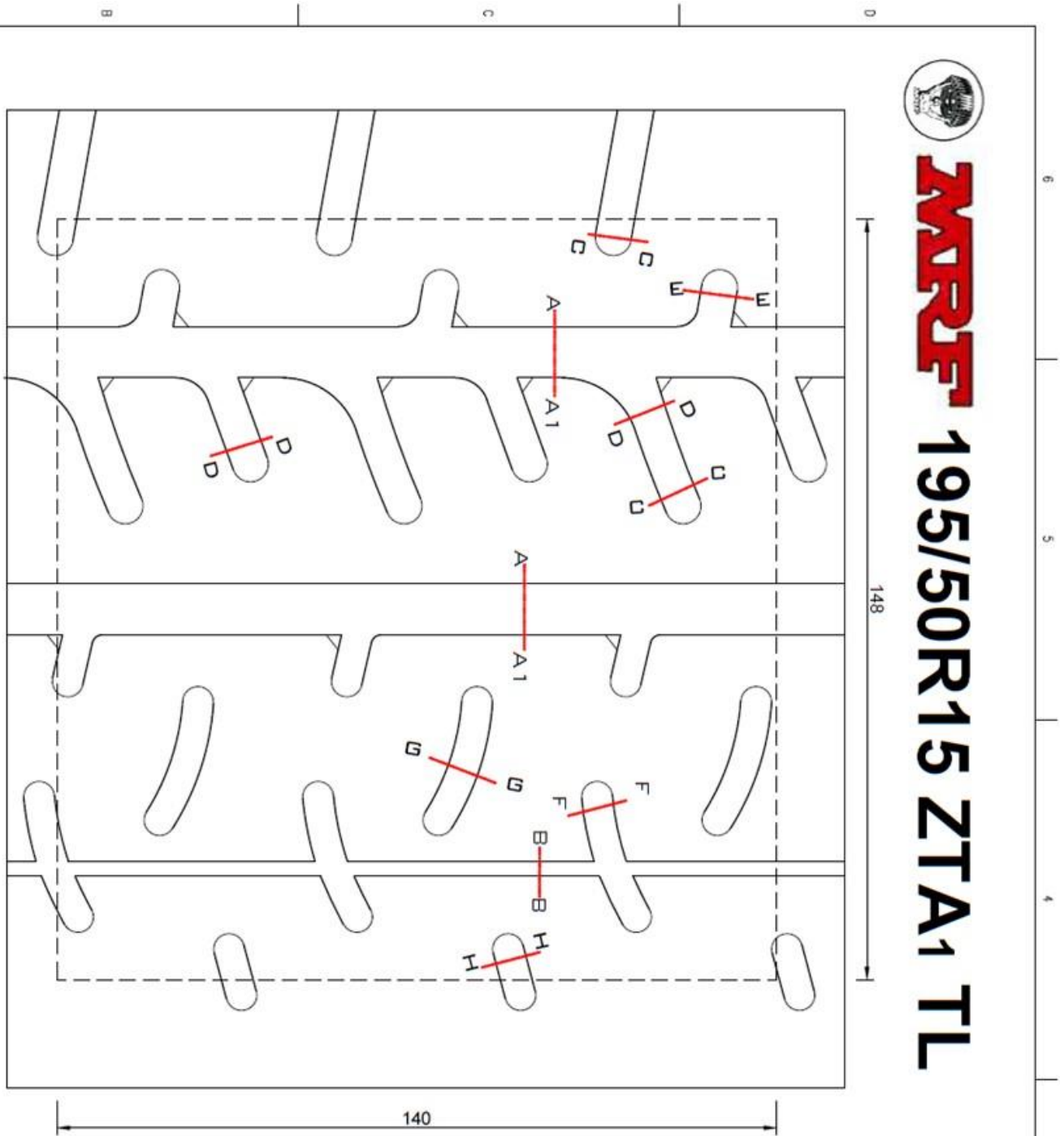
SIZE 185/580R15



15" - 195/50R15



MRF 195/50R15 ZTA1 TL



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

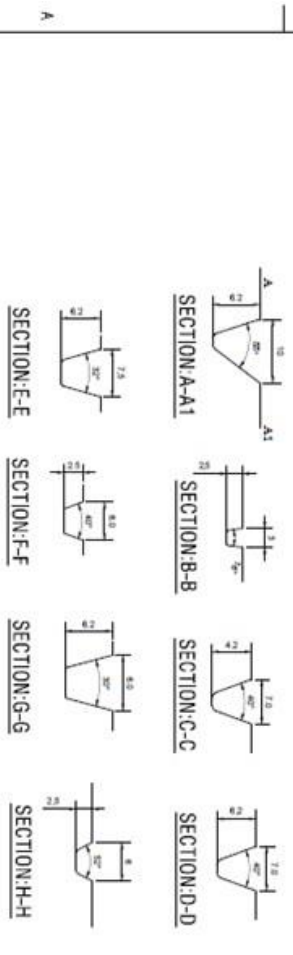
Grooved area within Min. 1.8 deep grooves > 21.5%

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

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		
SIGNATURE		G Kirubhakar	T N Sundar	NTS	
DATE		25.01.18	EVPRD / PDM	29.01.18	

S.No.	DATE	DESCRIPTIONS	DRAWN	EVPRD / PDM

CHENNAI
MRF
INDIA

DRAWN

APPROVED

SCALE

SIGNATURE

T N Sundar

DATE

EVPRD / PDM

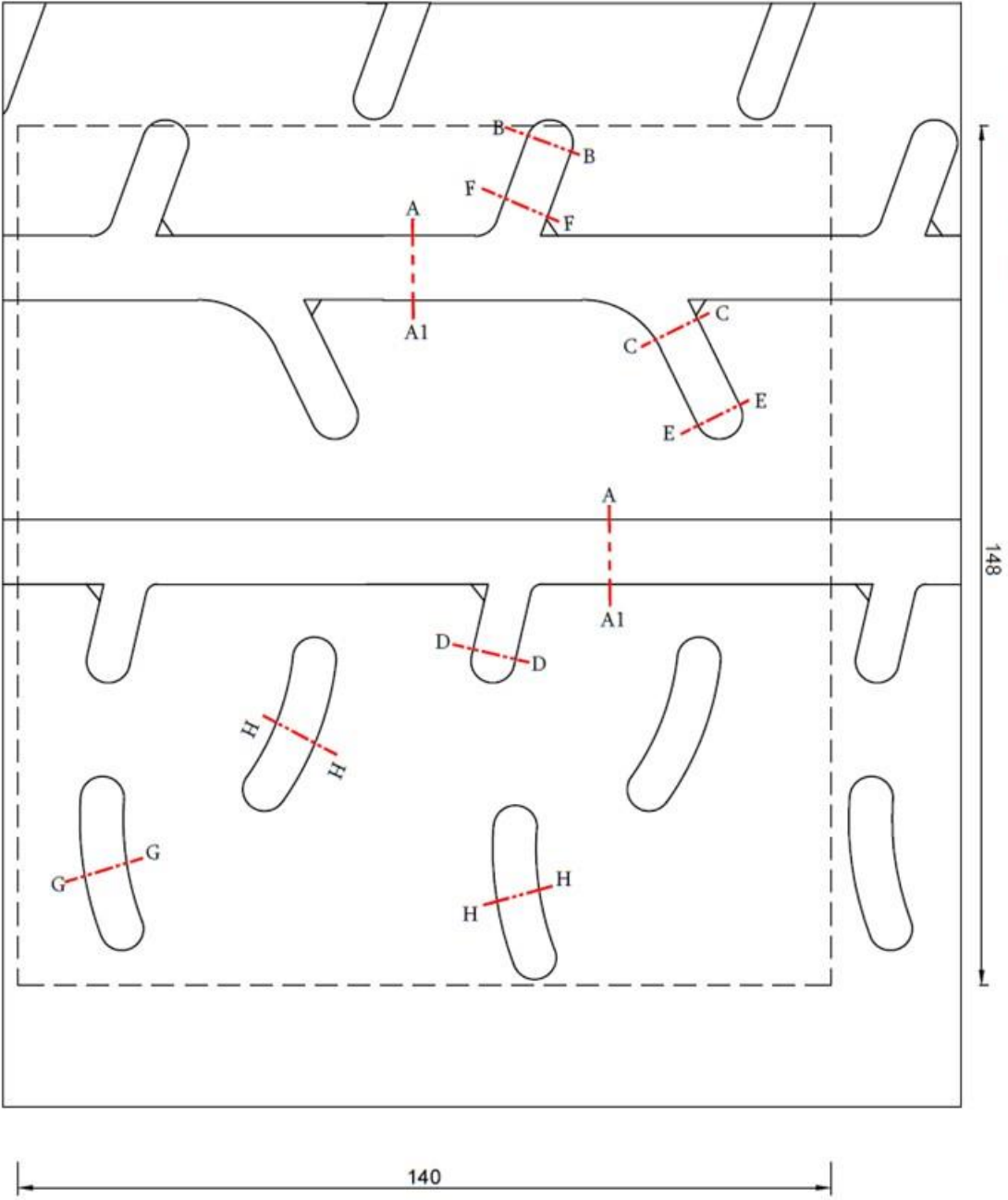
NTS



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"**

S.No.	DATE	DESCRIPTIONS	DRAWN	EVPRD / PDM
REVISIONS				

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

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		

IF IN DOUBT ASK...
All dimensions are in mm. Unless otherwise specified

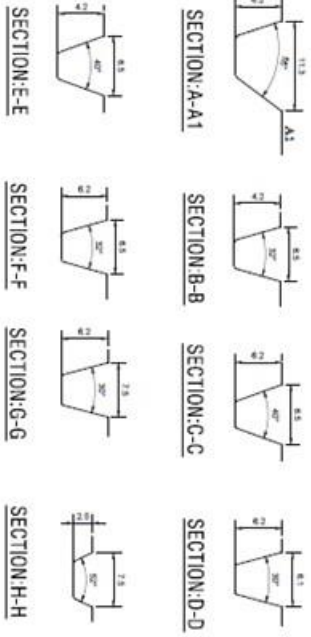
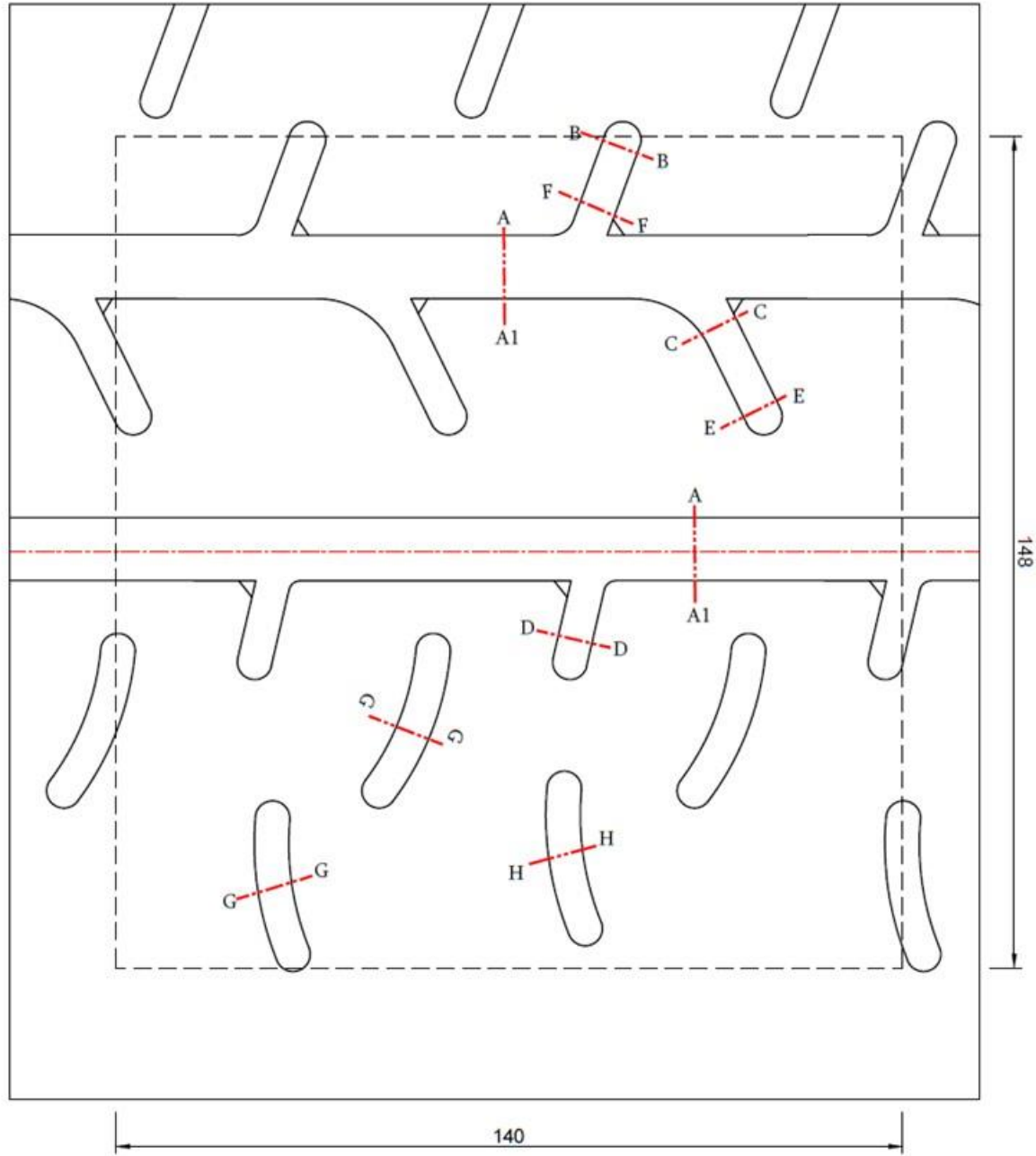
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17" - 205/45R17



MRF 205/45R17 ZTA1 TL



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All dimensions are in mm, unless otherwise specified.
IF IN DOUBT ASK...

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 Krubhakar	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

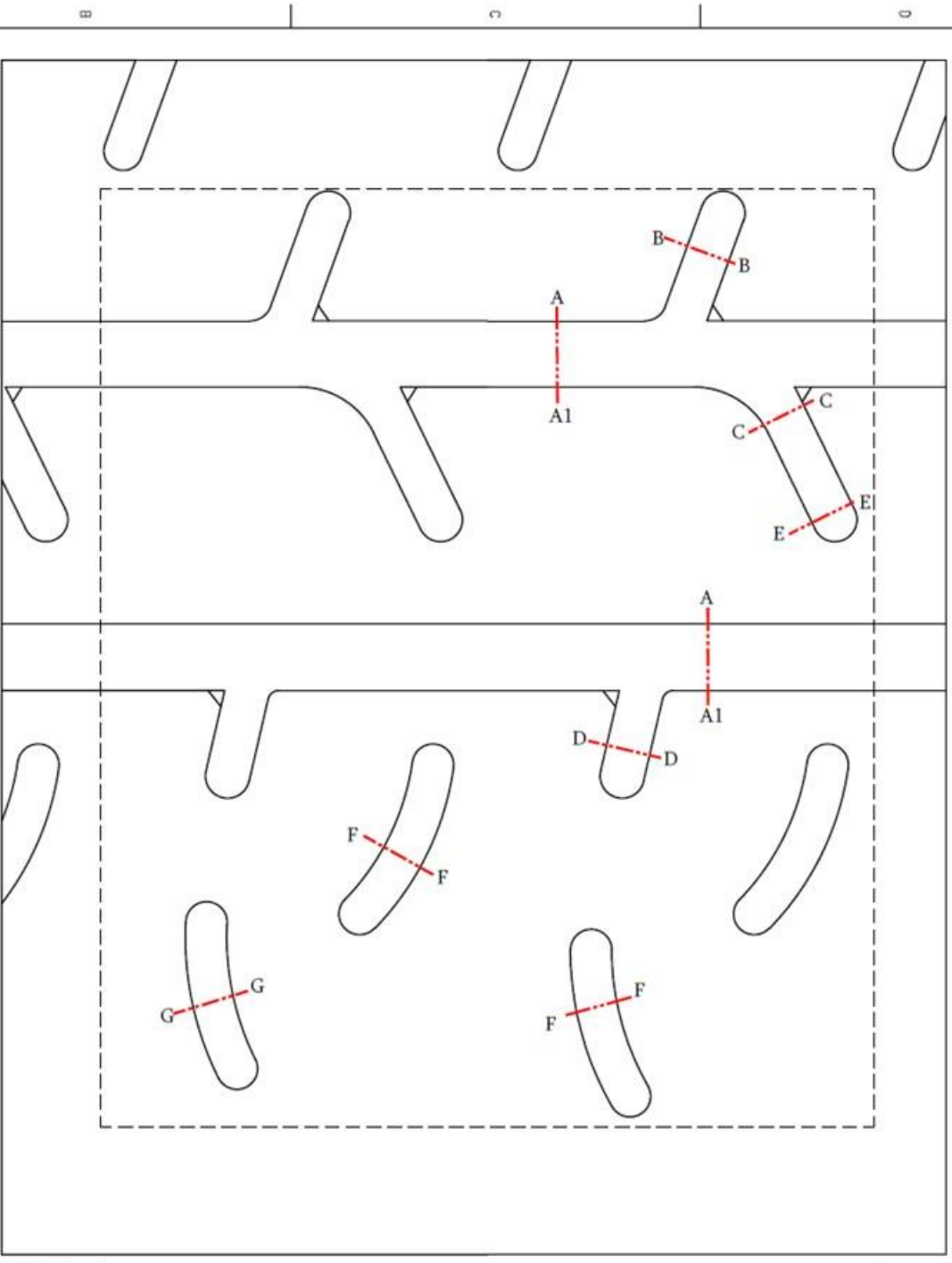
CORPORATE TECHNICAL MOULD DESIGN	DRG No.	RR-205/45R17_0518	REVISION No.	00
SAP DOCUMENT TYPE:	SAP DOCUMENT No.	VER		



18" - 235/40R18



MRF 235/40R18 ZTA1 TL



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

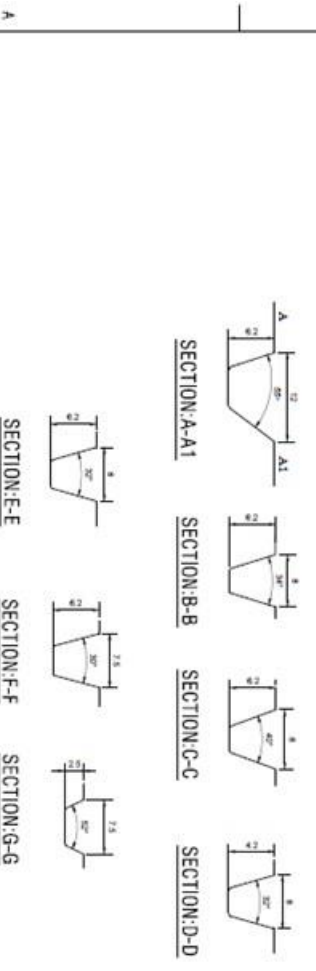
Grooved area within Min. 1.8 deep grooves > 21.5%

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"**



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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			
DATE	25.01.18				

F.I.A COMPLIANCE FOR 235/40R18 ZTA1 TL

CORPORATE TECHNICAL MOULD DESIGN	DRG No.	RR-235/40R18_0518	REVISION No.	00
SAP DOCUMENT TYPE:	SAP DOCUMENT No.	VER		