



2018 List of Asphalt Eligible Tyres



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Page 56

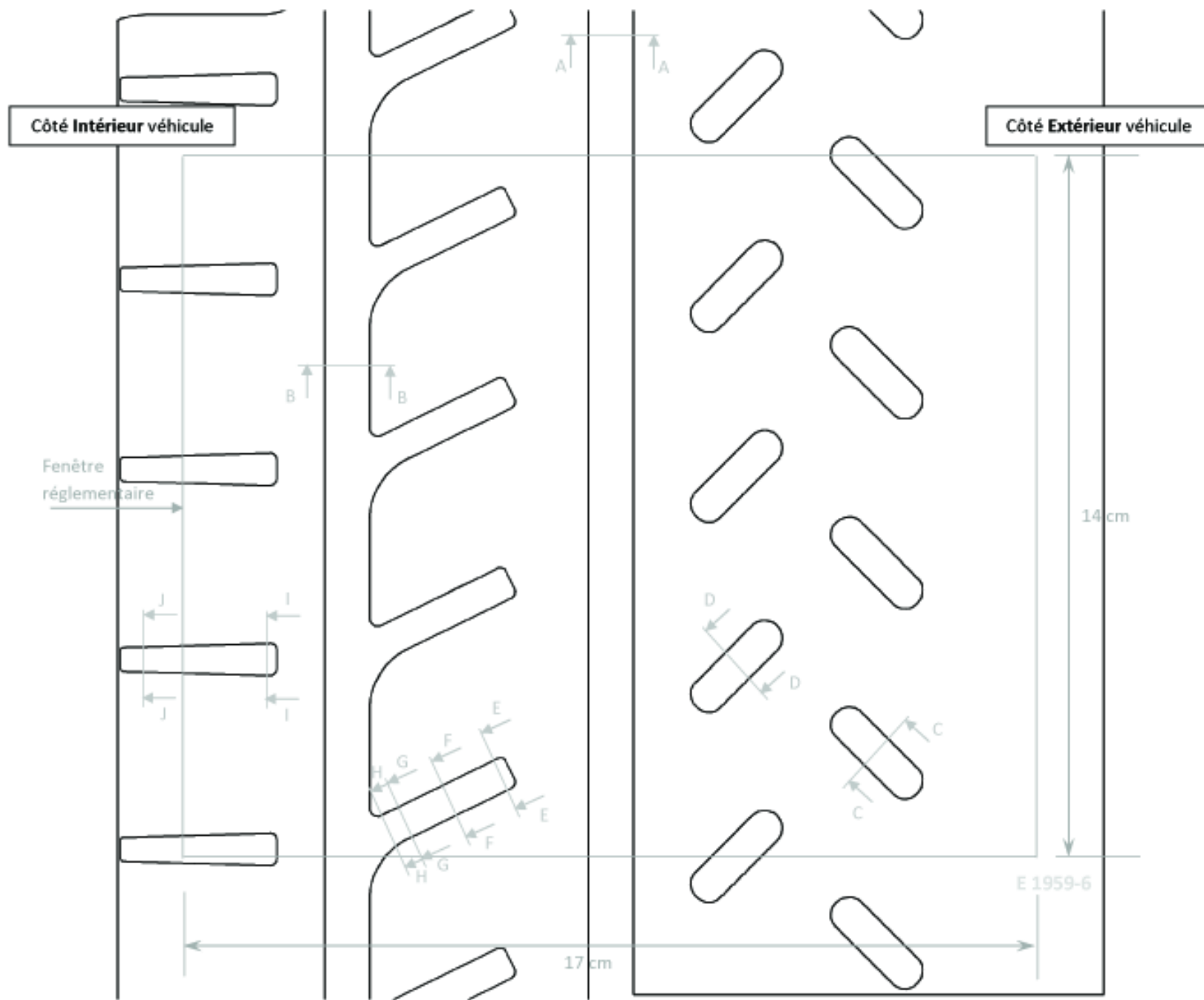


Page 58



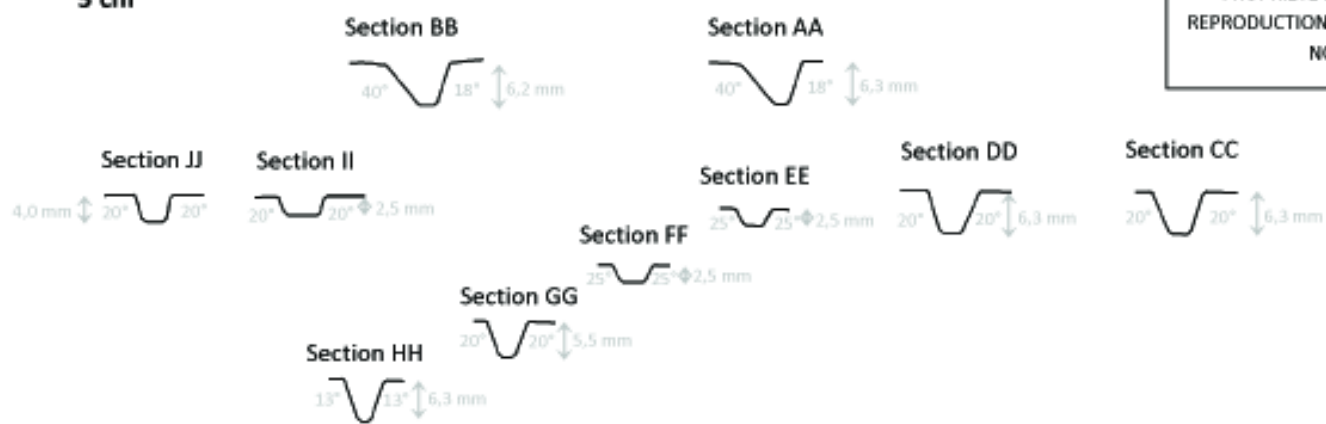
Domaine : Rallye Asphalte
Dimension : 20 / 65 – 18
Plan de la sculpture : Pilot Sport R
Entaillement Surfamique dans fenêtre réglementaire : 21,51 %

Clermont-Ferrand le 05/12/2013



Echelle 1:1
 5 cm

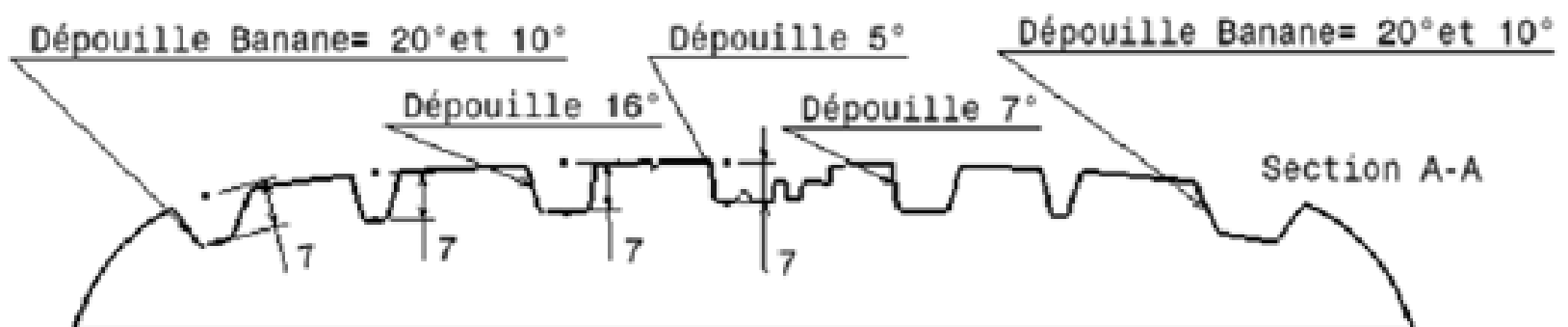
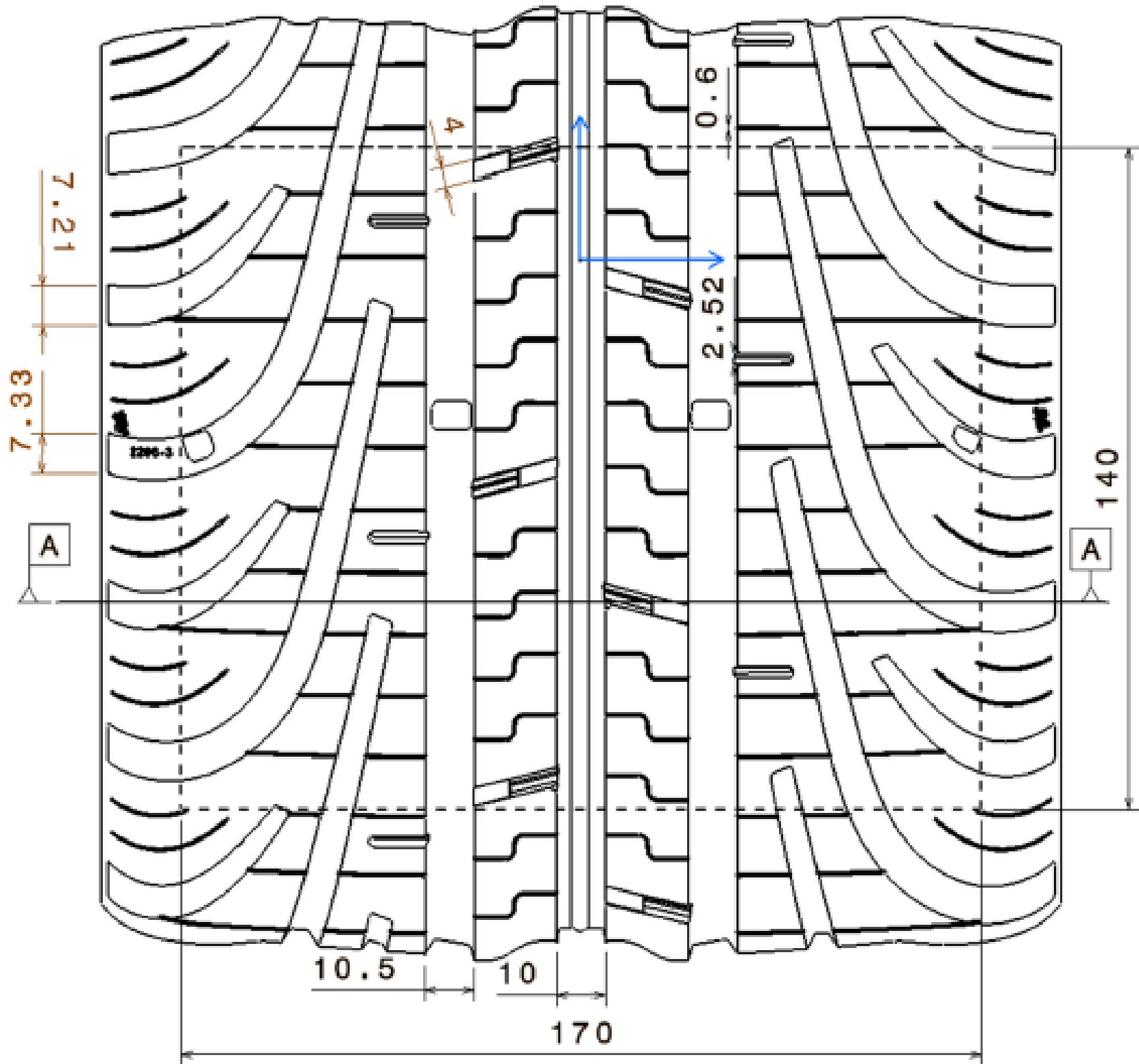
MANUFACTURE FRANCAISE DES PNEUMATIQUES
 MICHELIN CLERMONT-FERRAND
 PROPRIETE EXCLUSIVE DE NOTRE SOCIETE
 REPRODUCTION OU UTILISATION INTERDITE SANS
 NOTRE ACCORD ECRIT





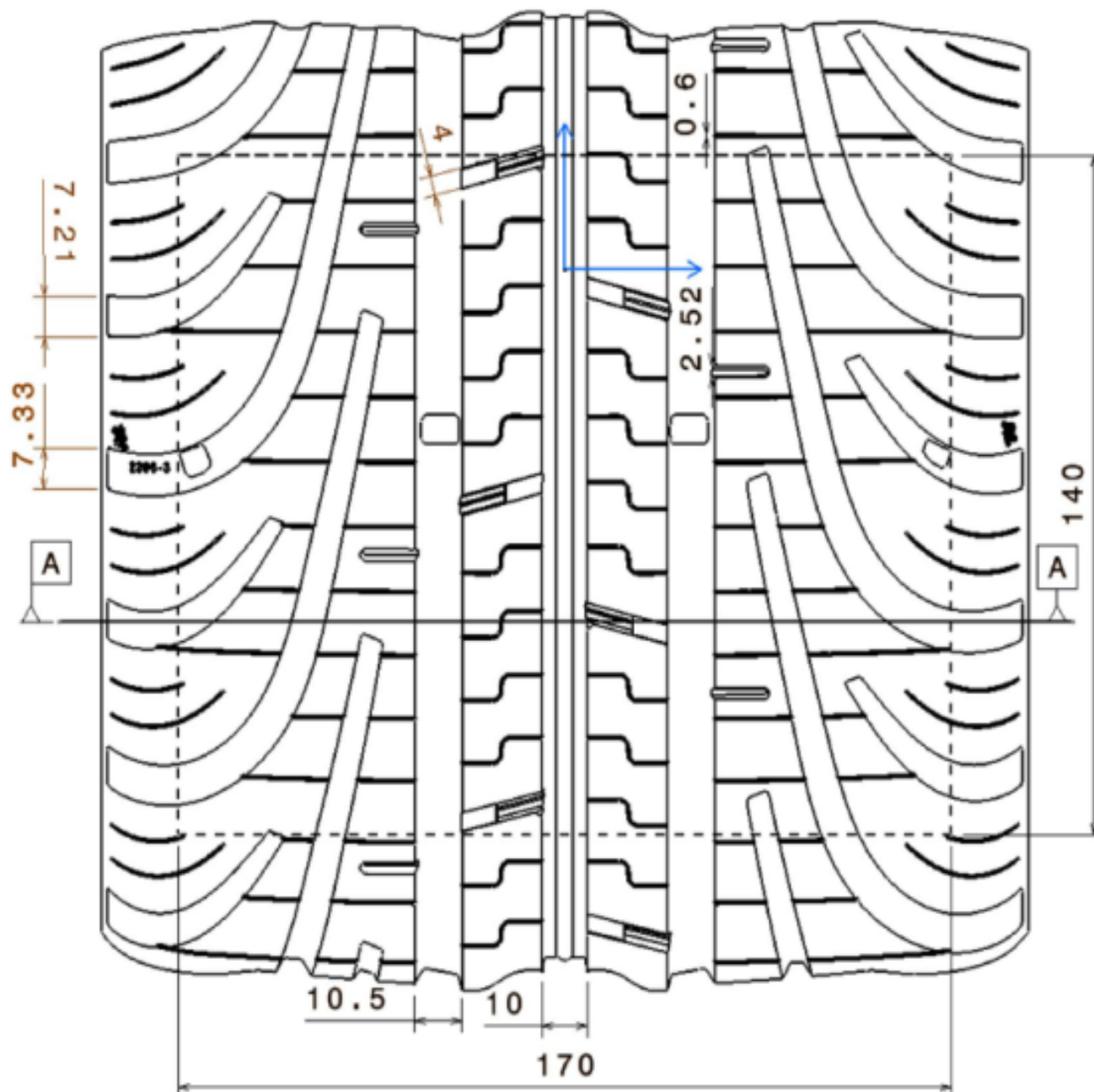
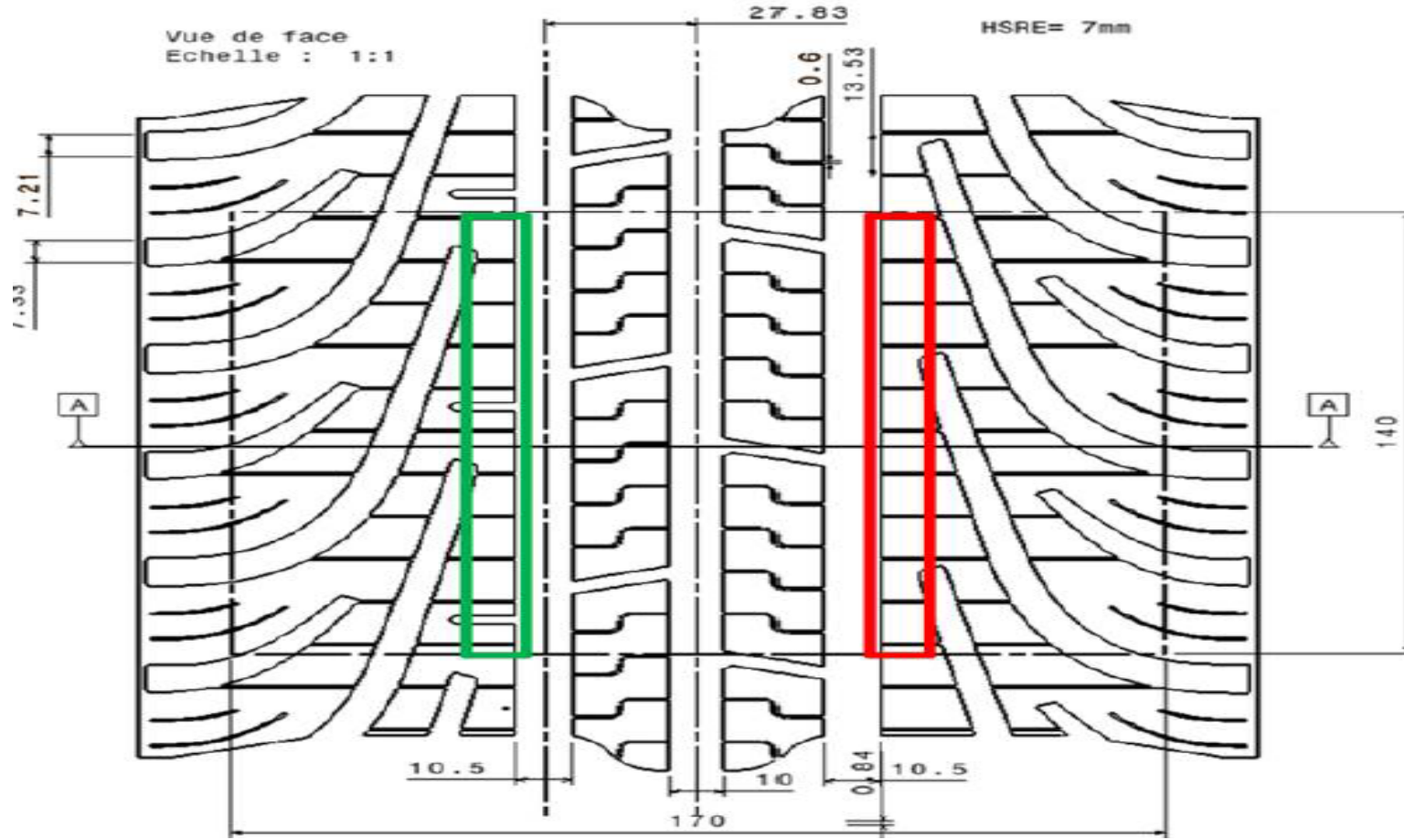
Clermont-Ferrand le : 15/12/2016
 Domaine : Rallye Asphalt WRC Wet
 Dimension : 18 / 65 - 18
 Plan de la sculpture : Pilot Sport FW3
 Entaillement Surfacique sur entaille $\geq 5,5\text{mm}$ de profondeur : 27.5%

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 NOTRE ACCORD ECRIT





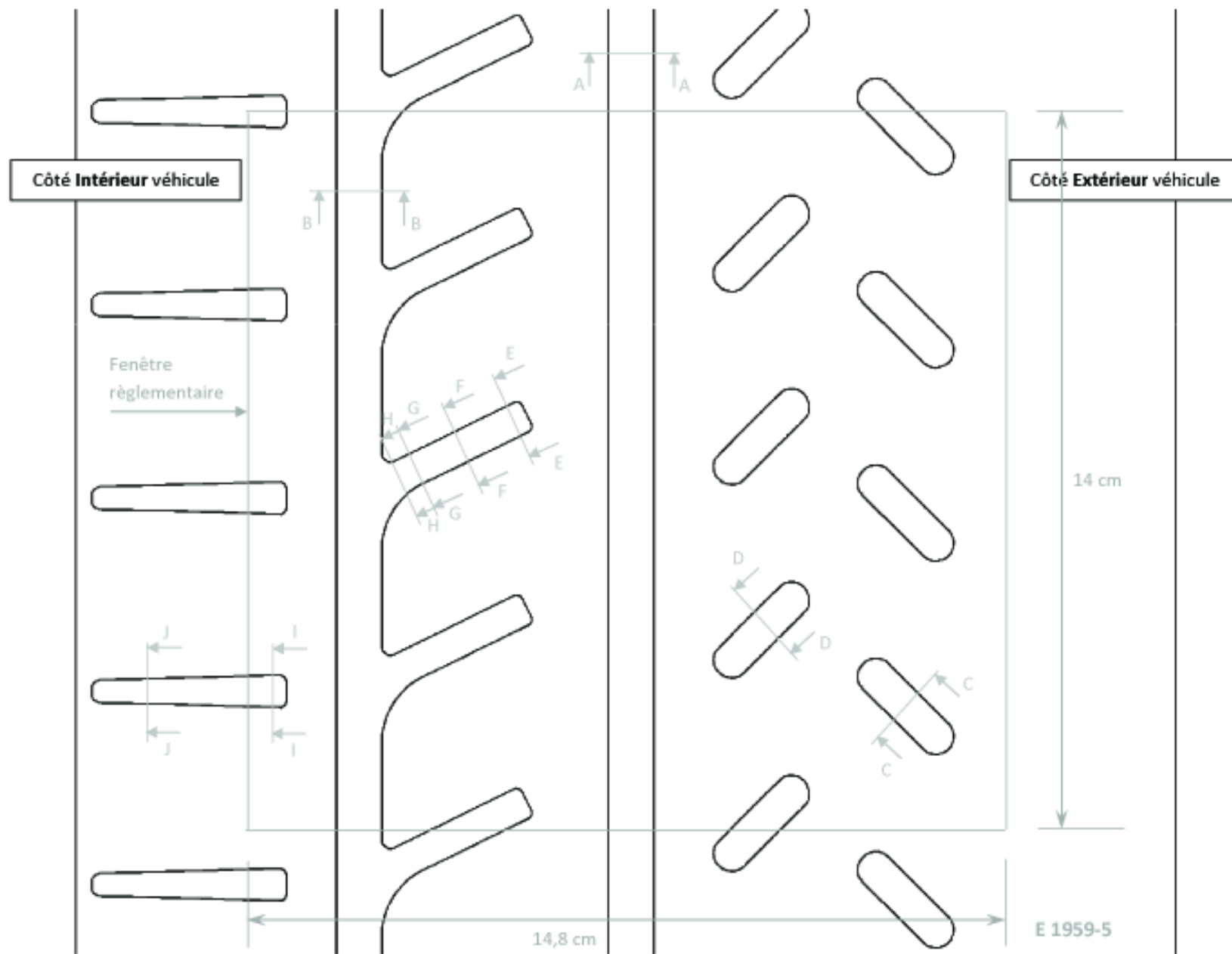
Valid until 31.12.2017



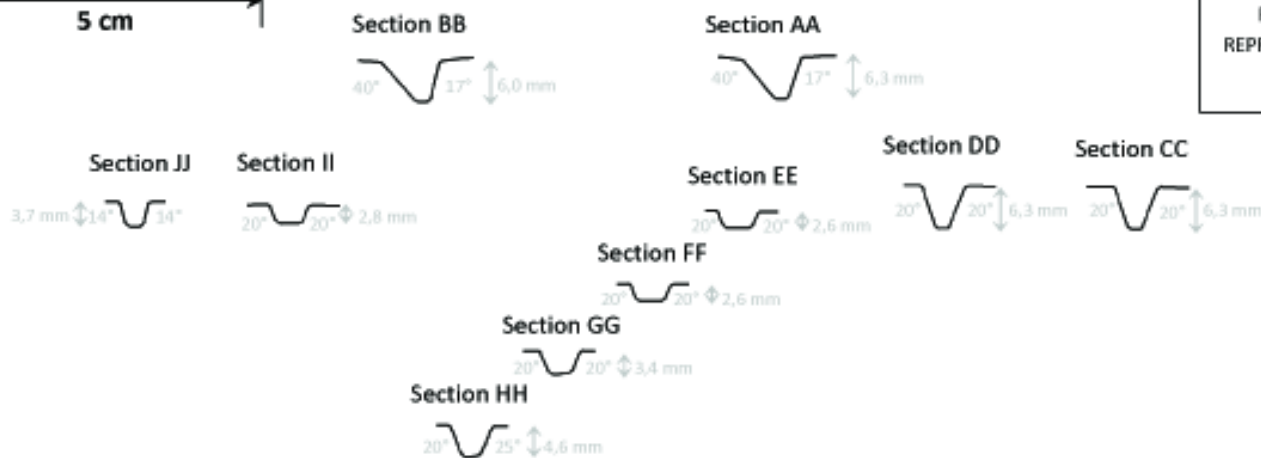


Domaine : Rallye Asphalte
 Dimension : 19 / 63 – 17
 Plan de la sculpture : Pilot Sport R
 Entaillement surfacique sur fenêtre réglementaire : 21,51 %

Clermont-Ferrand le 05/12/2013



Echelle 1:1
 5 cm

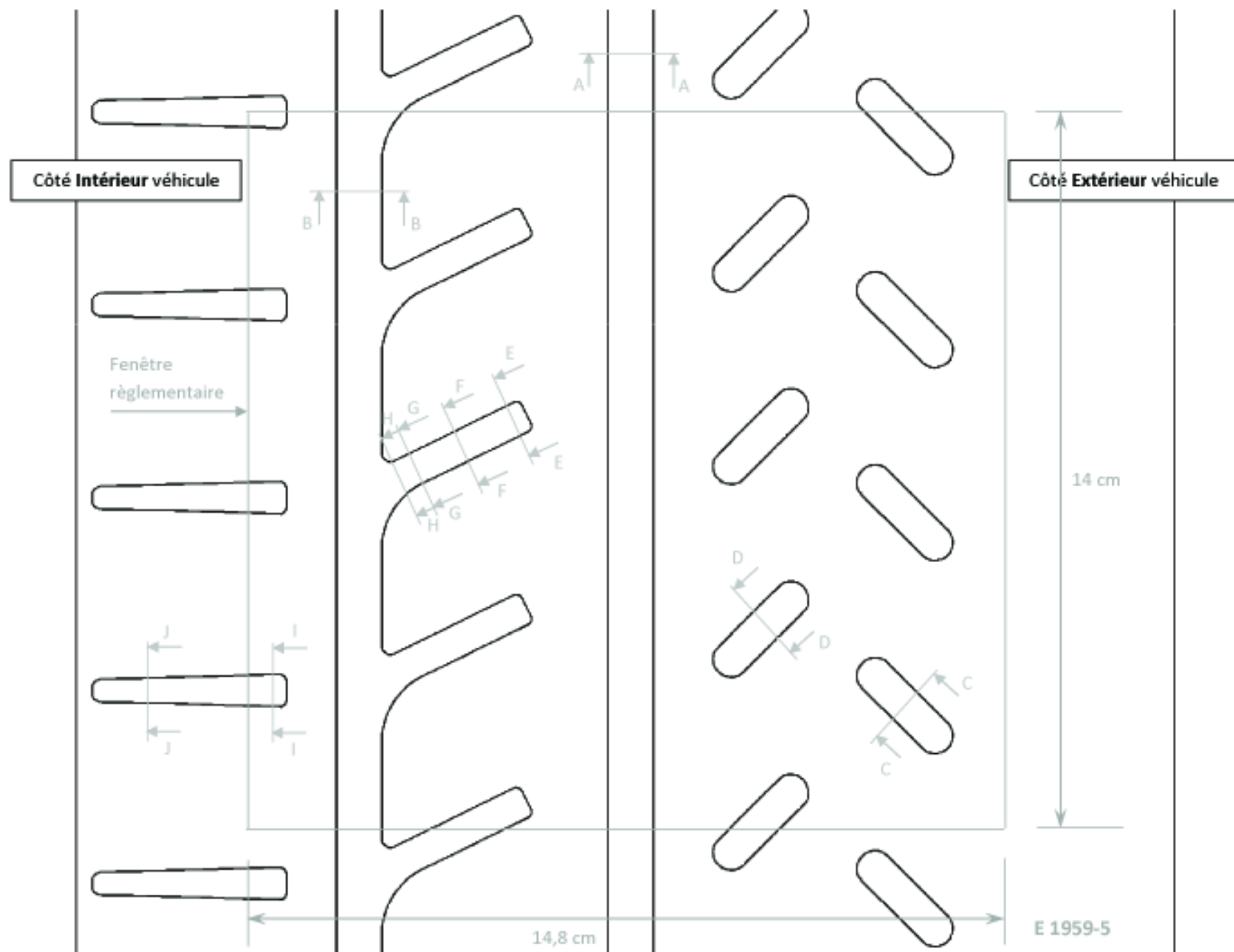


MANUFACTURE FRANCAISE DES PNEUMATIQUES
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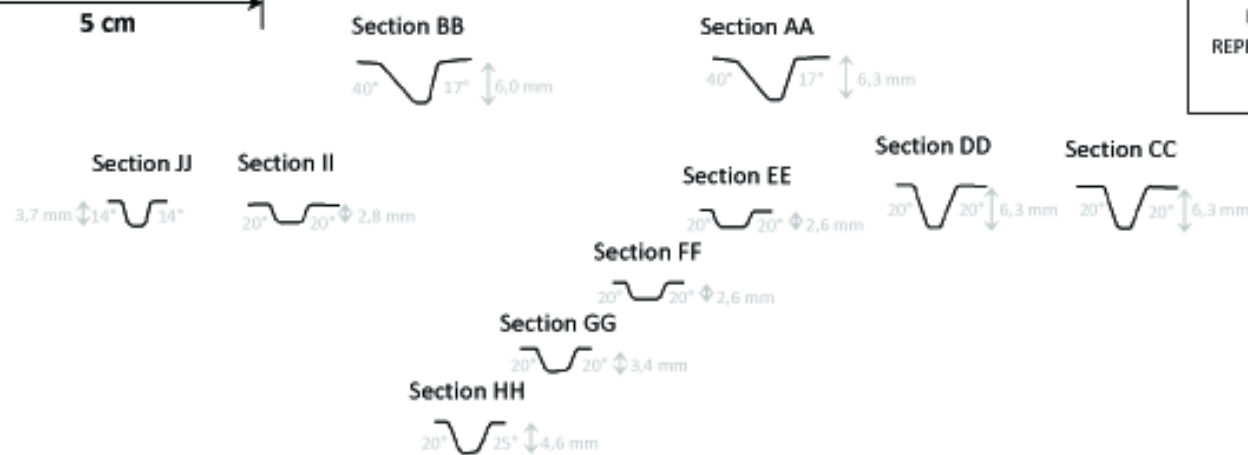


Domaine : Rallye Asphalte
 Dimension : 19 / 60 – 16
 Plan de la sculpture : **Pilot Sport R**
 Entaillement surfacique sur fenêtre réglementaire : **21,51 %**

Clermont-Ferrand le 05/12/2013



Echelle 1:1
 5 cm

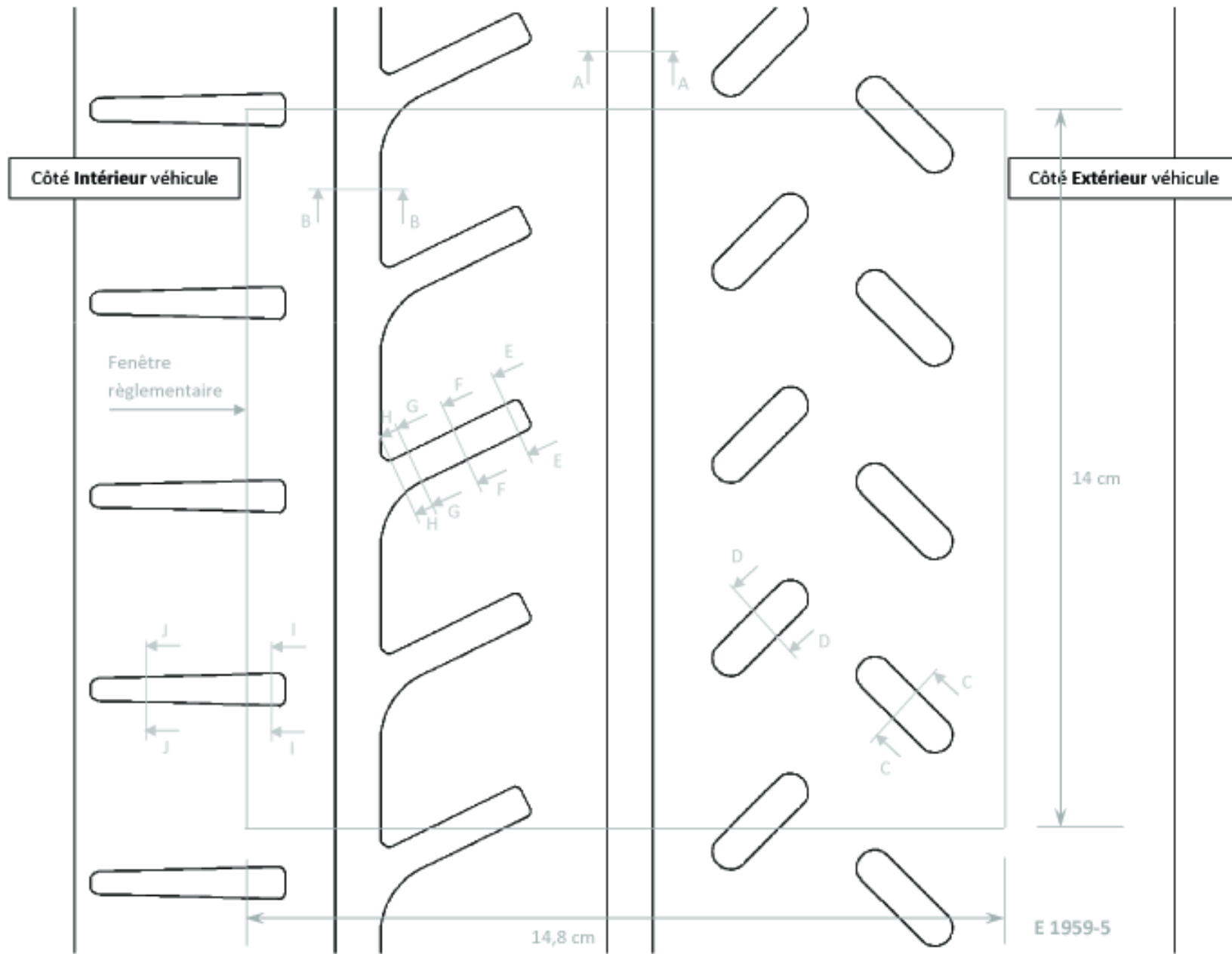


MANUFACTURE FRANCAISE DES PNEUMATIQUES
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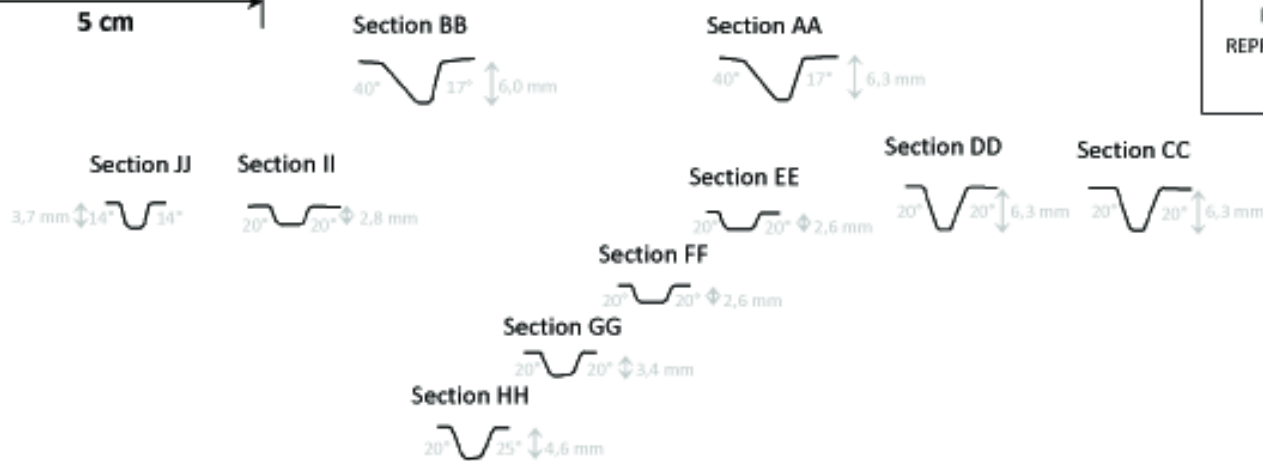


Domaine : Rallye Asphalte
 Dimension : 19 / 58 – 15
 Plan de la sculpture : Pilot Sport R
 Entaillement surfacique sur fenêtre réglementaire : 21,51 %

Clermont-Ferrand le 05/12/2013



Echelle 1:1
 5 cm

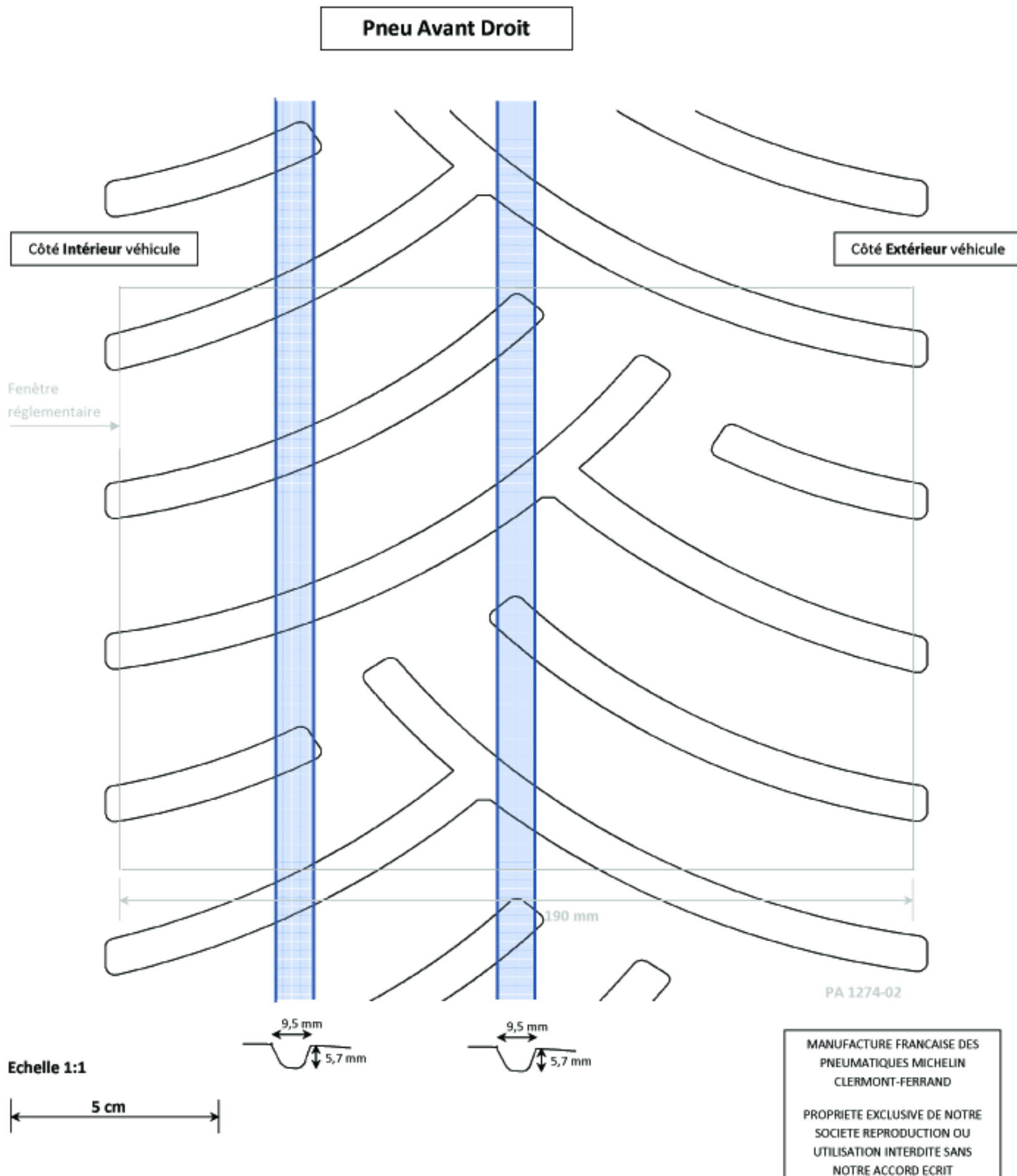


MANUFACTURE FRANCAISE DES PNEUMATIQUES
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Domaine : Rallye Asphalte
Dimension : 24 / 65 - 18
Entaillement surfacique sur une fenêtre de 190 mm de large : 32,8 %

Clermont-Ferrand le 18/12/2013



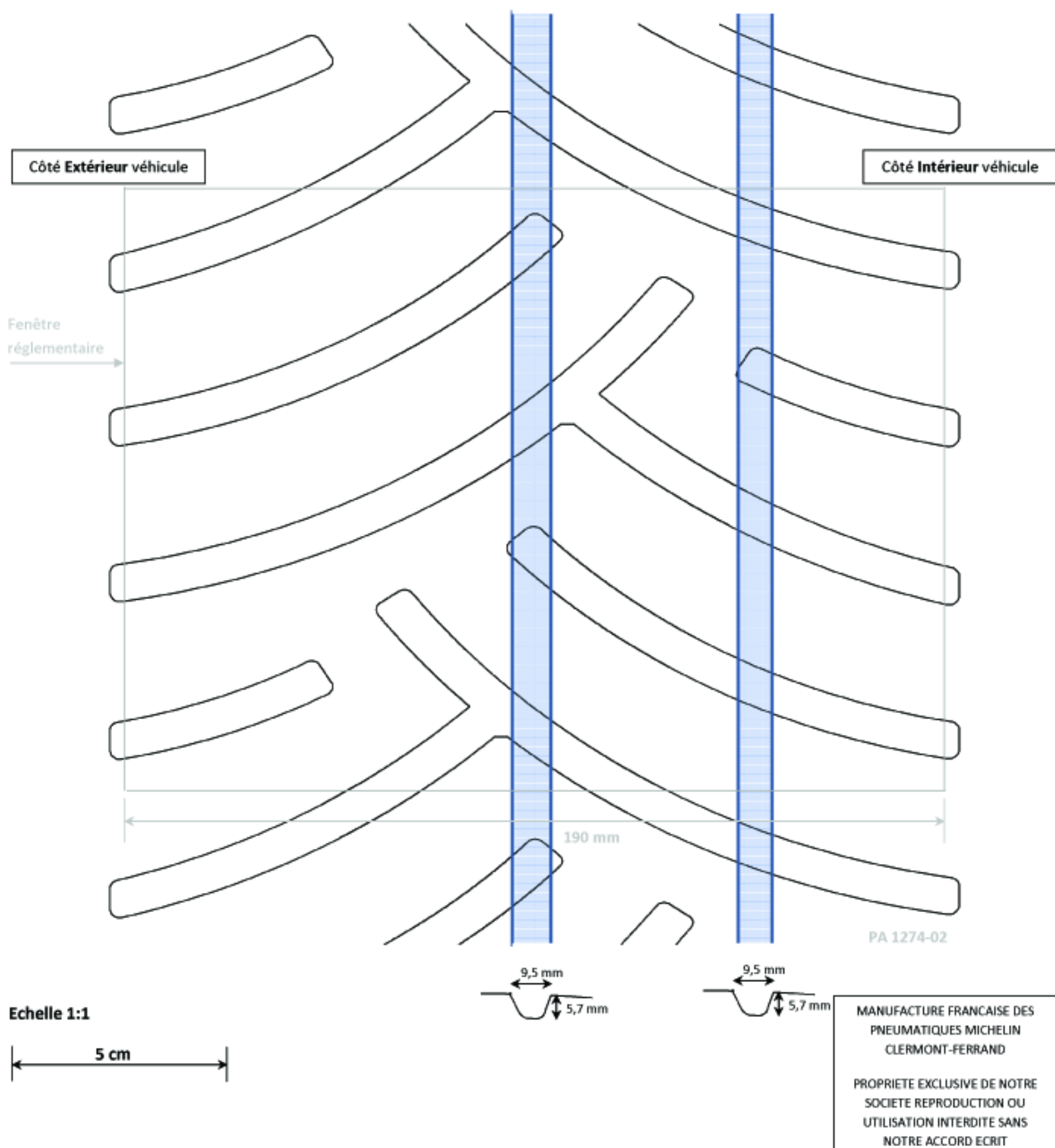
Circumferential grooves are hand-cutted.



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

Clermont-Ferrand le 18/12/2013

Pneu Avant Gauche

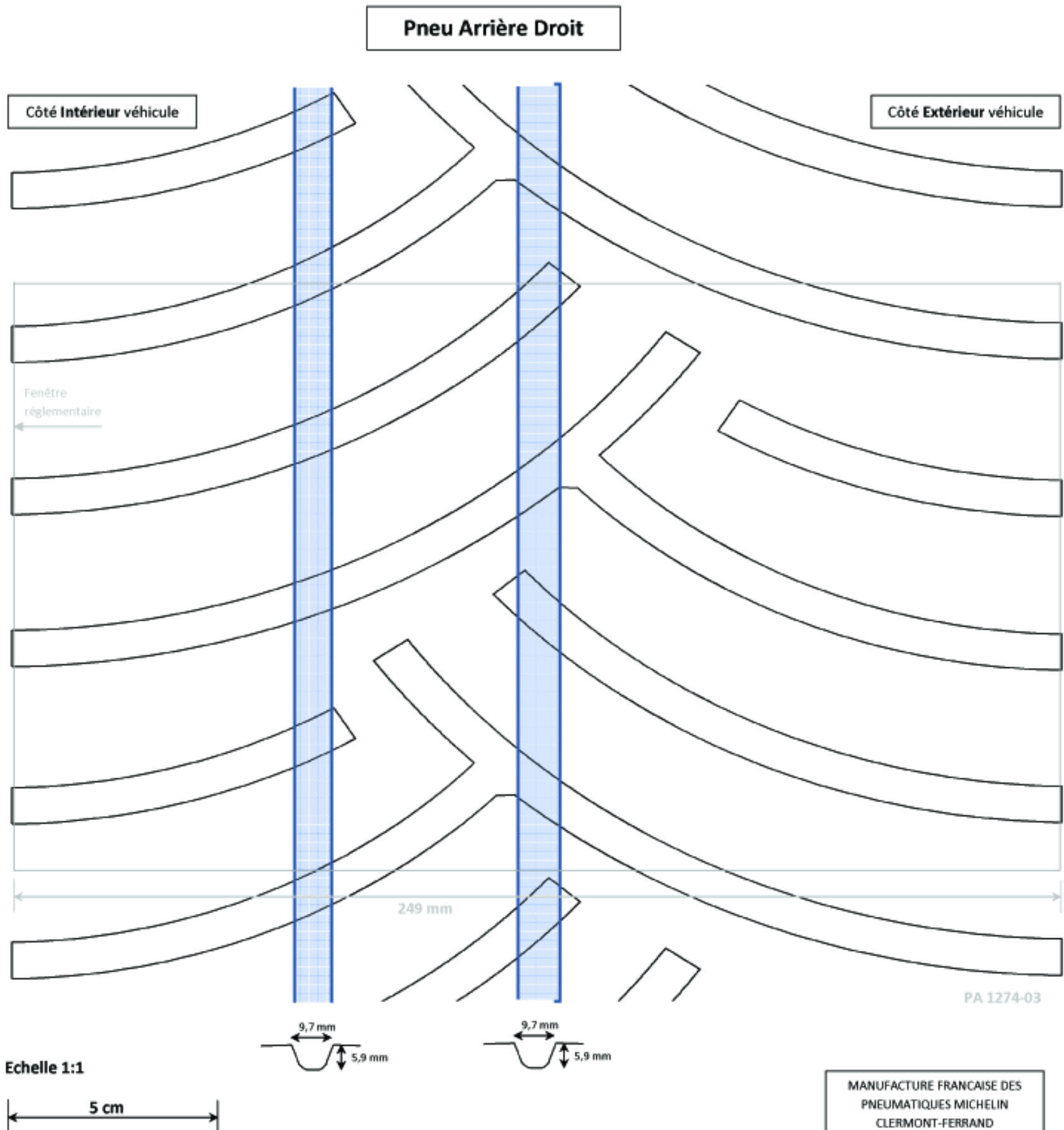


Circonférential grooves are hand-cutted.



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

Clermont-Ferrand le 18/12/2013

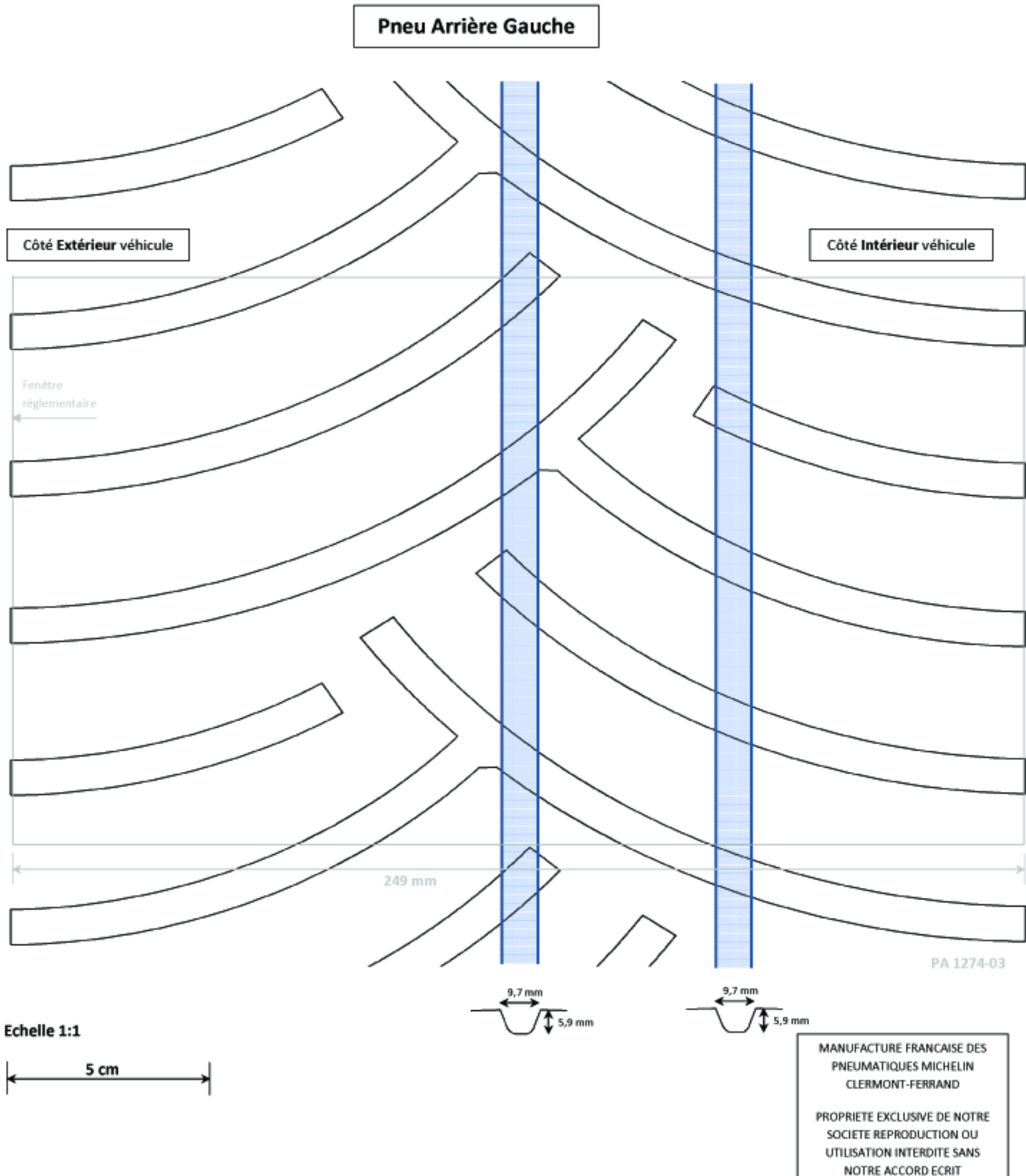


Circonférential grooves are hand-cutted.



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

Clermont-Ferrand le 18/12/2013



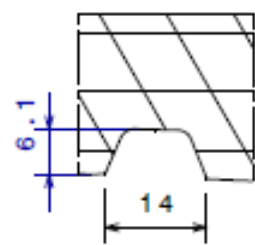
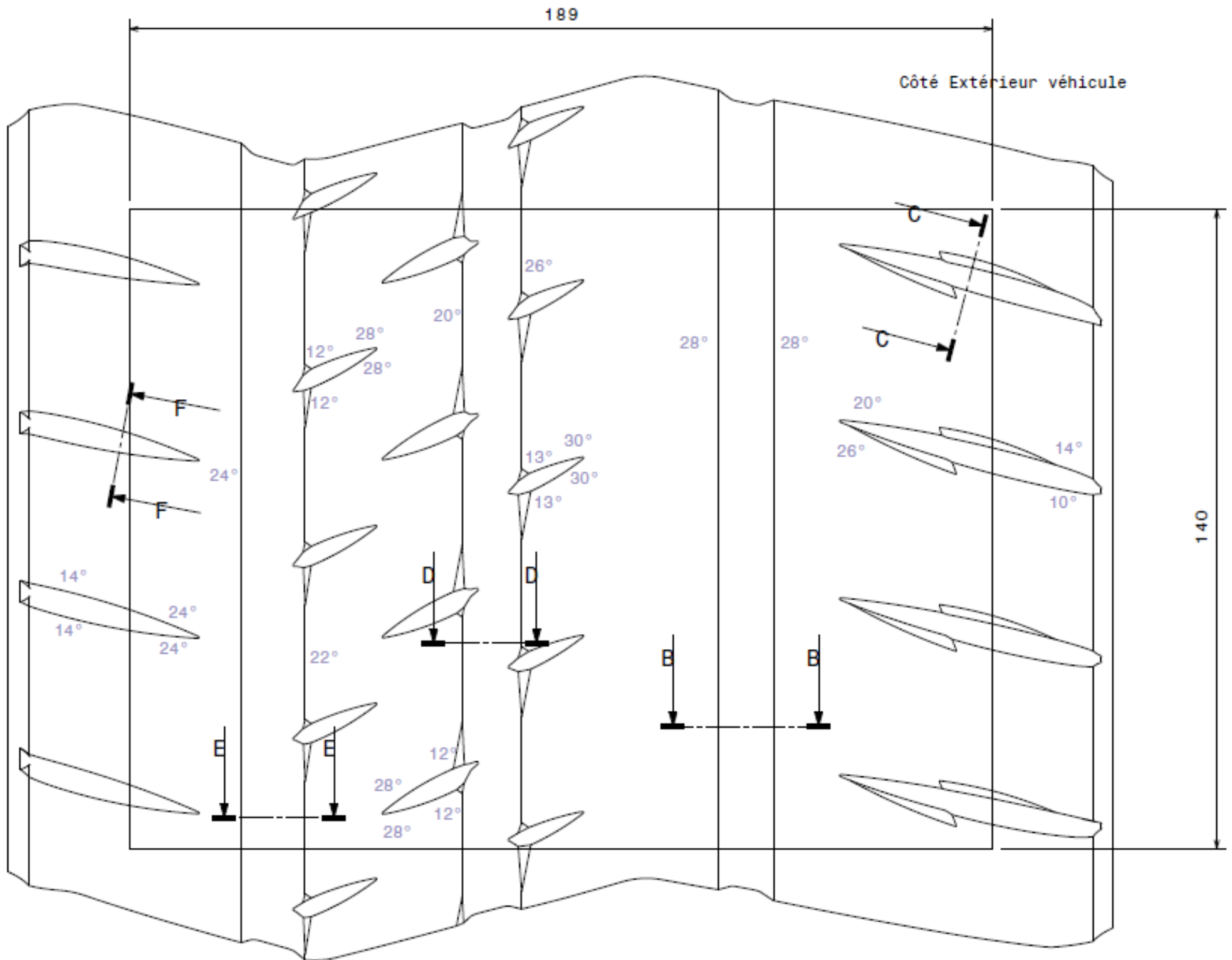
Circonfential groves are hand-cutted.

RGT only – 24/65-18

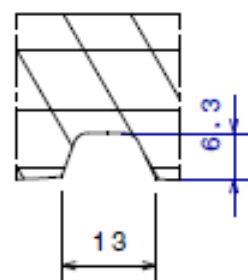


Domaine : Rallye Asphalte
 Dimension : 24/65 R18
 Plan de la sculpture : Pilot Sport R
 Entaillement Surfacique dans fenetre règlementaire : 21.7 % à 1.8 mm d'usure
 : 17 % à 5.5 mm d'usure

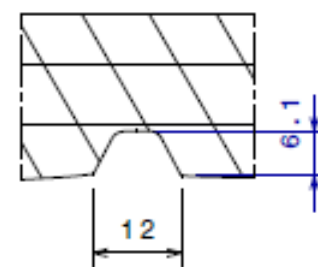
Clermont-Ferrand le 28/02/2018



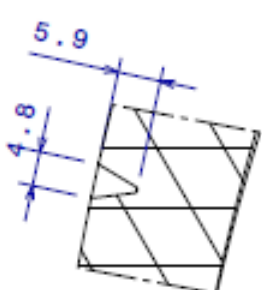
Coupe E-E



Coupe D-D

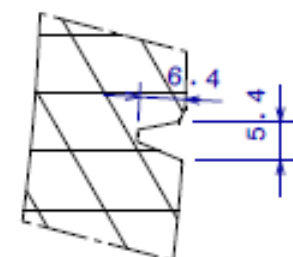


Coupe B-B



Coupe F-F

MANUFACTURE FRANCAISE DES PNEUMATIQUES
 MICHELIN CLERMONT-FERRAND
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 SANS NOTRE ACCORD ECRIT

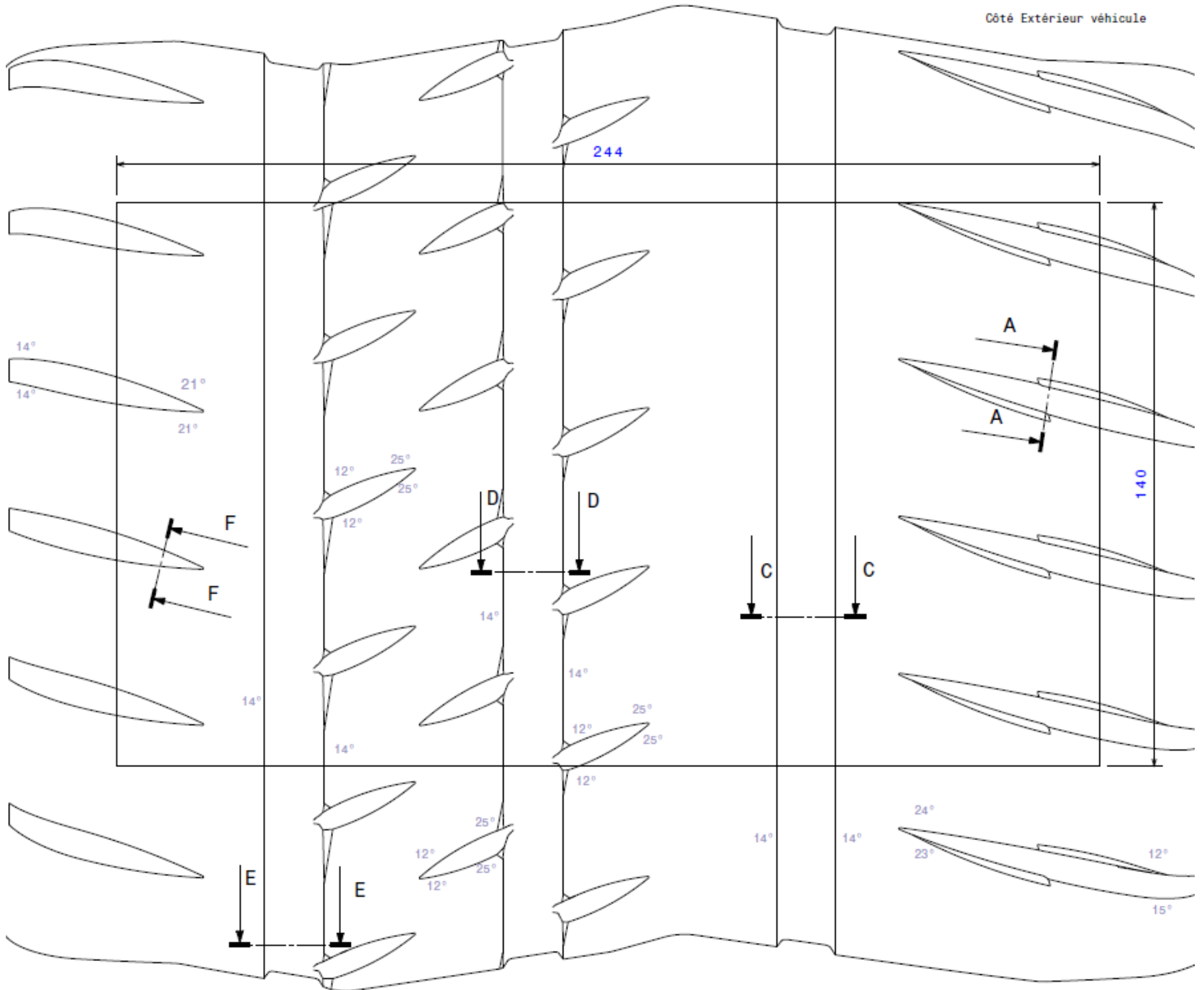


Coupe C-C

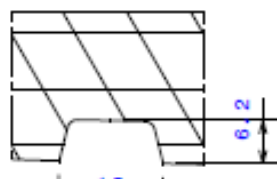


Domaine : Rallye Asphalte
 Dimension : 29/65 R18
 Plan de la sculpture : Pilot Sport R
 Entaillement Surfamique dans fenêtre réglementaire : 22.6 % à 1.8 mm d'usure
 : 19.2 % à 5.5 mm d'usure

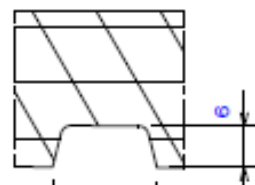
Clermont-Ferrand le 28/02/2018



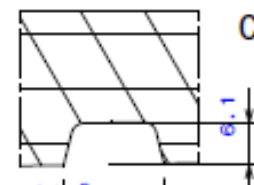
Coupe F-F



Coupe E-E



Coupe D-D



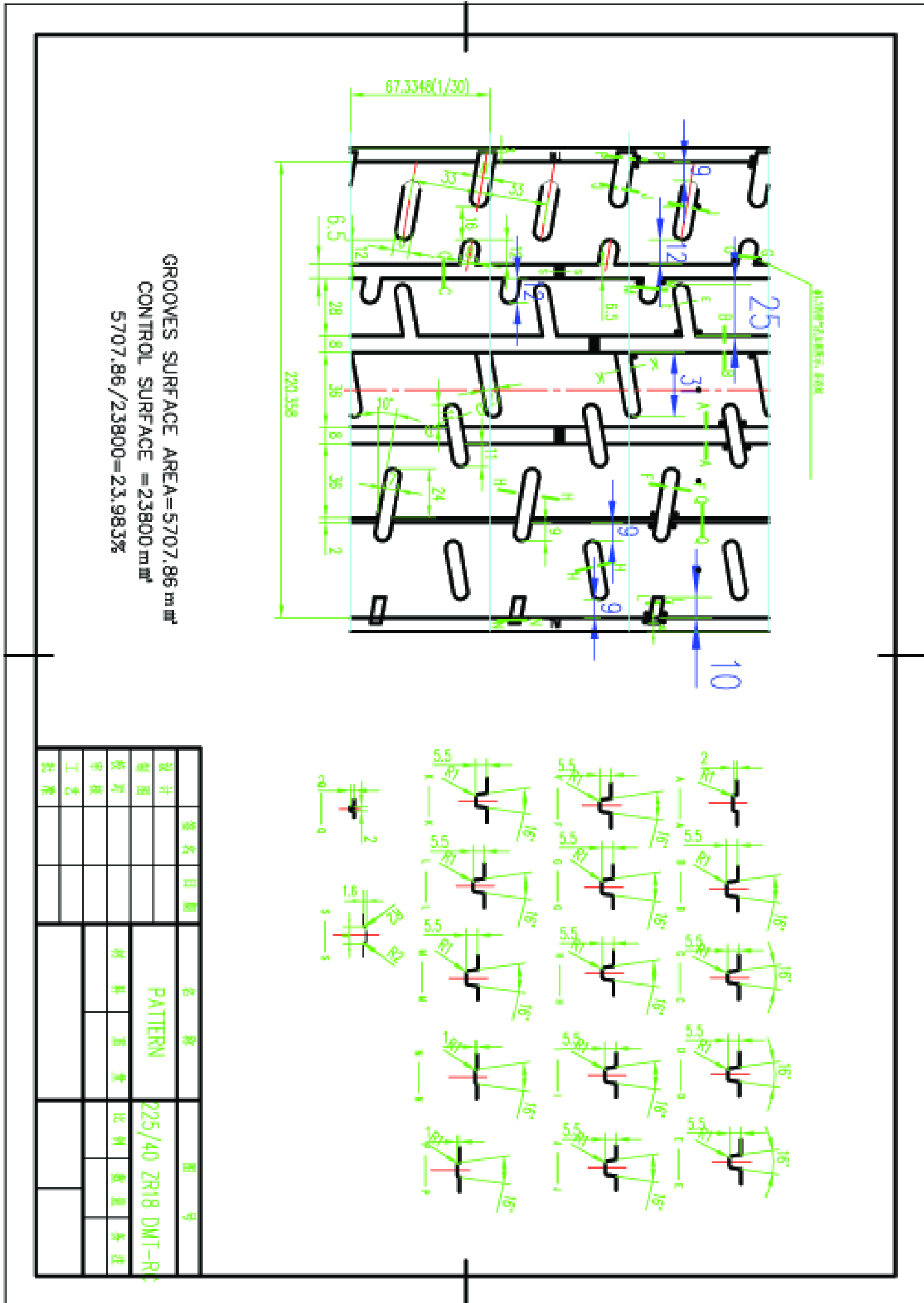
Coupe C-C



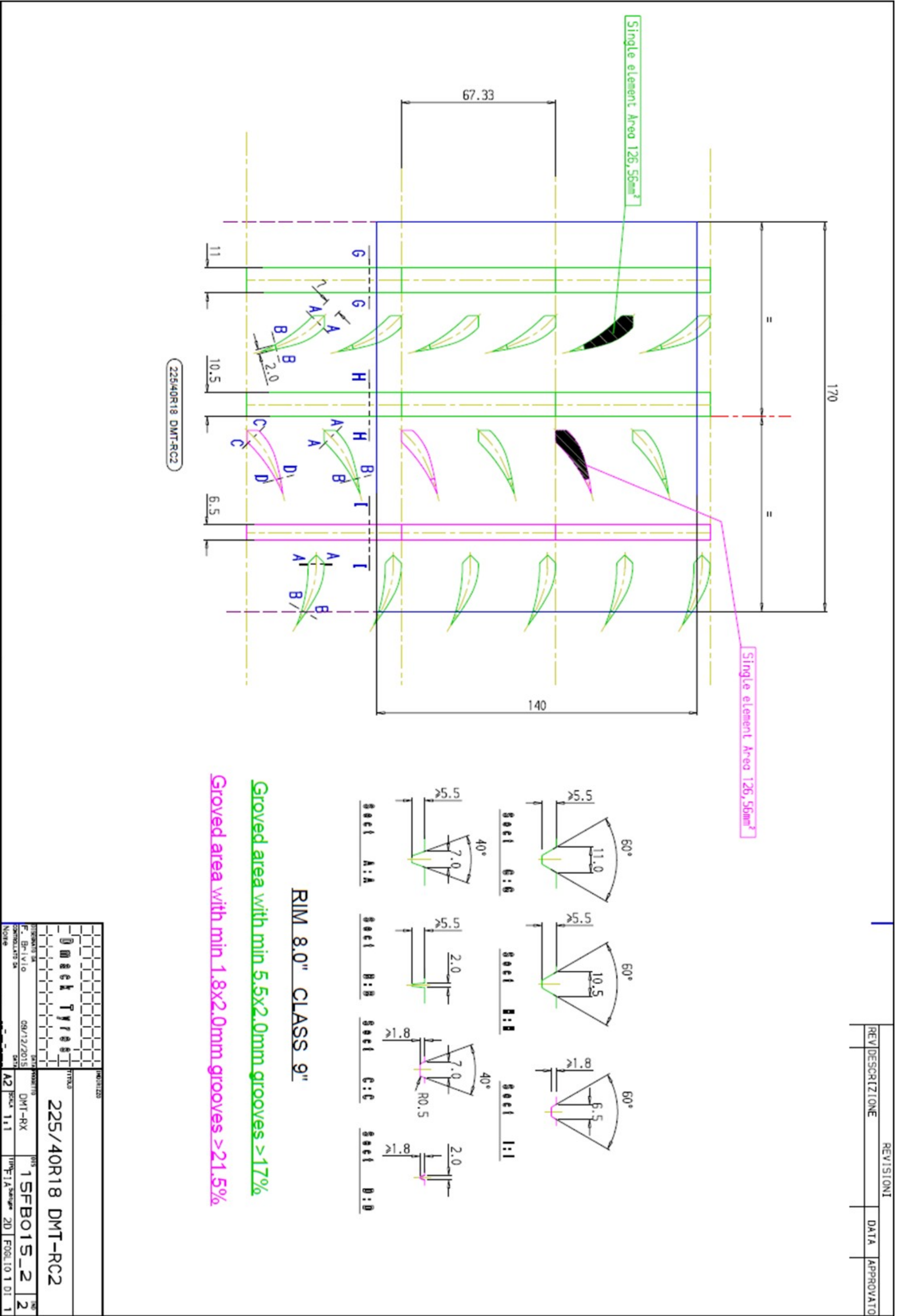
Coupe A-A

MANUFACTURE FRANCAISE DES PNEUMATIQUES MICHELIN
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 NOTRE ACCORD ECRIT

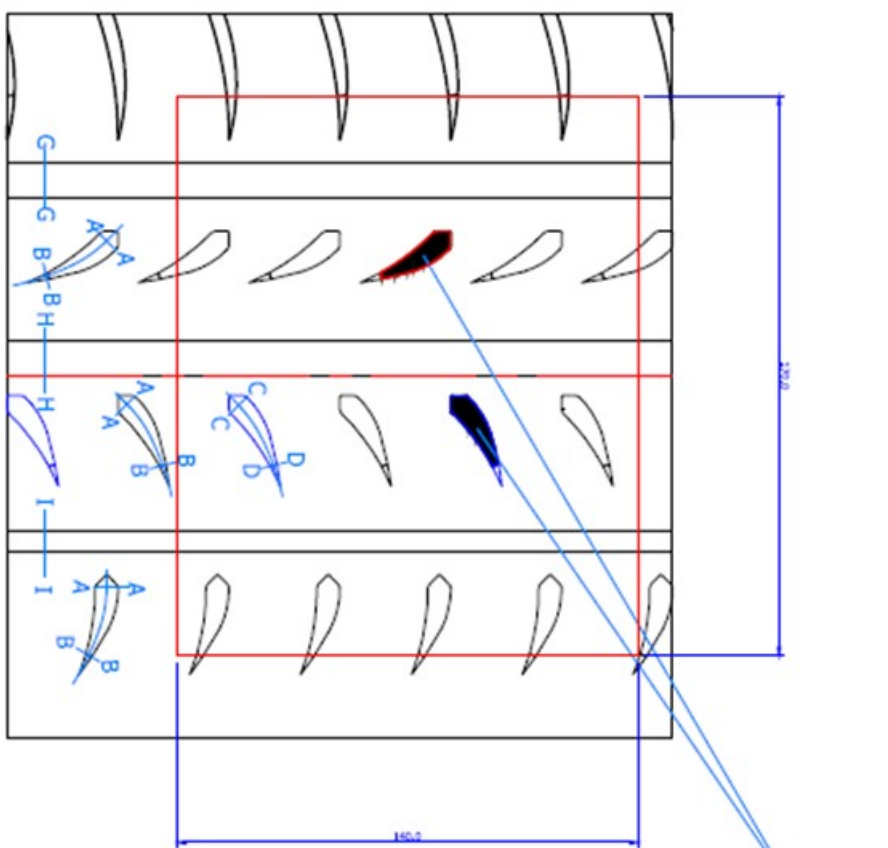
18" – 225/40-18



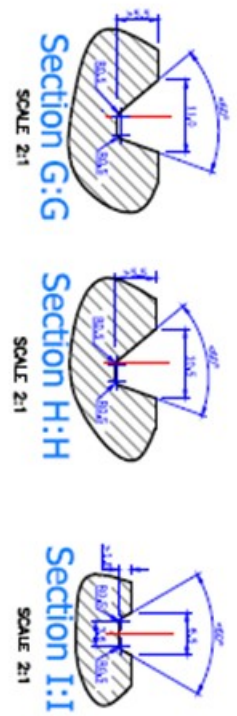
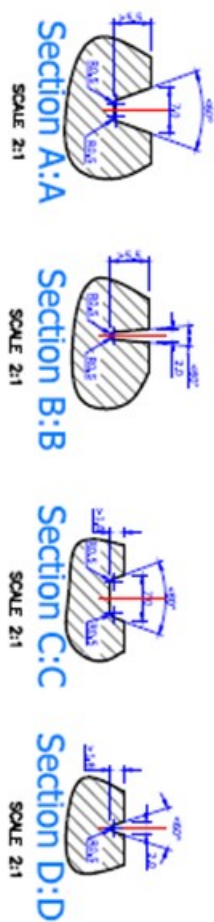
18" – 225/40-18



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

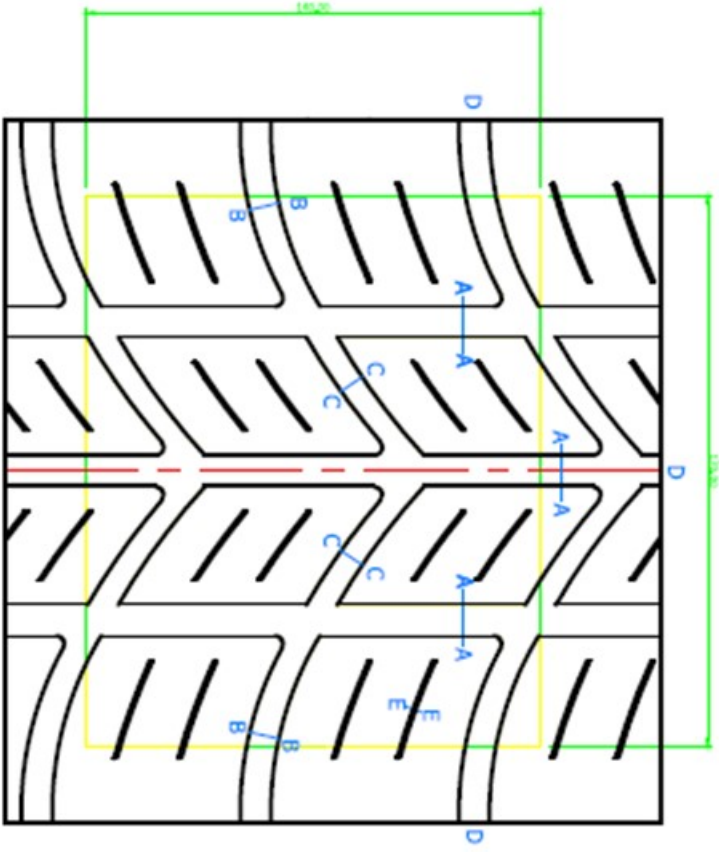
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ISSUE	MODIFICATION	DATE	SIGN
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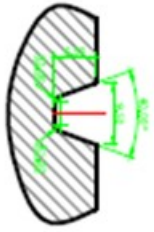


SCALE: 1:1, 2:1, 3:1
DIN: QJ22/2016
16FB037

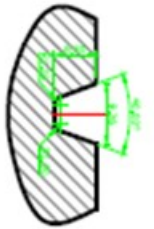
18" – 225/40-18



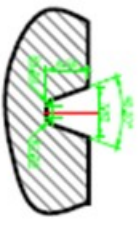
Tread Pattern Detail
SCALE 1:1



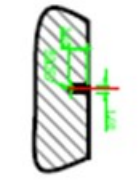
Section A:A
SCALE 2:1



Section B:B
SCALE 2:1



Section C:C
SCALE 2:1



Section E:E
SCALE 2:1

RIM 8.0"

Class 9"

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

DRAWING REFERENCES

APPROVAL

COMPONENTS

MM

MATERIAL

225/40R18 EWet - Homologation details

DMACK TYRES - ENGLAND.

ISSUE

MODIFICATION

SCALE: 1:1, 2:1, 3:1

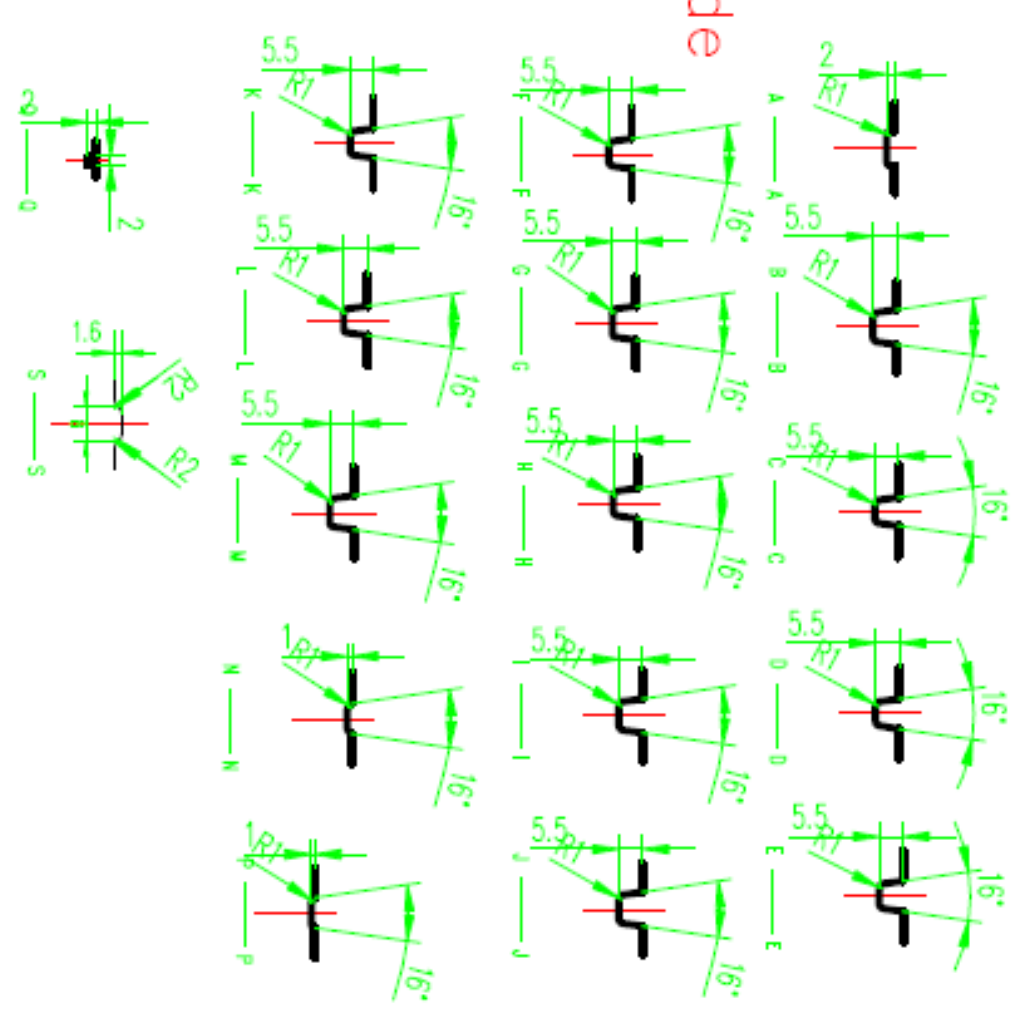
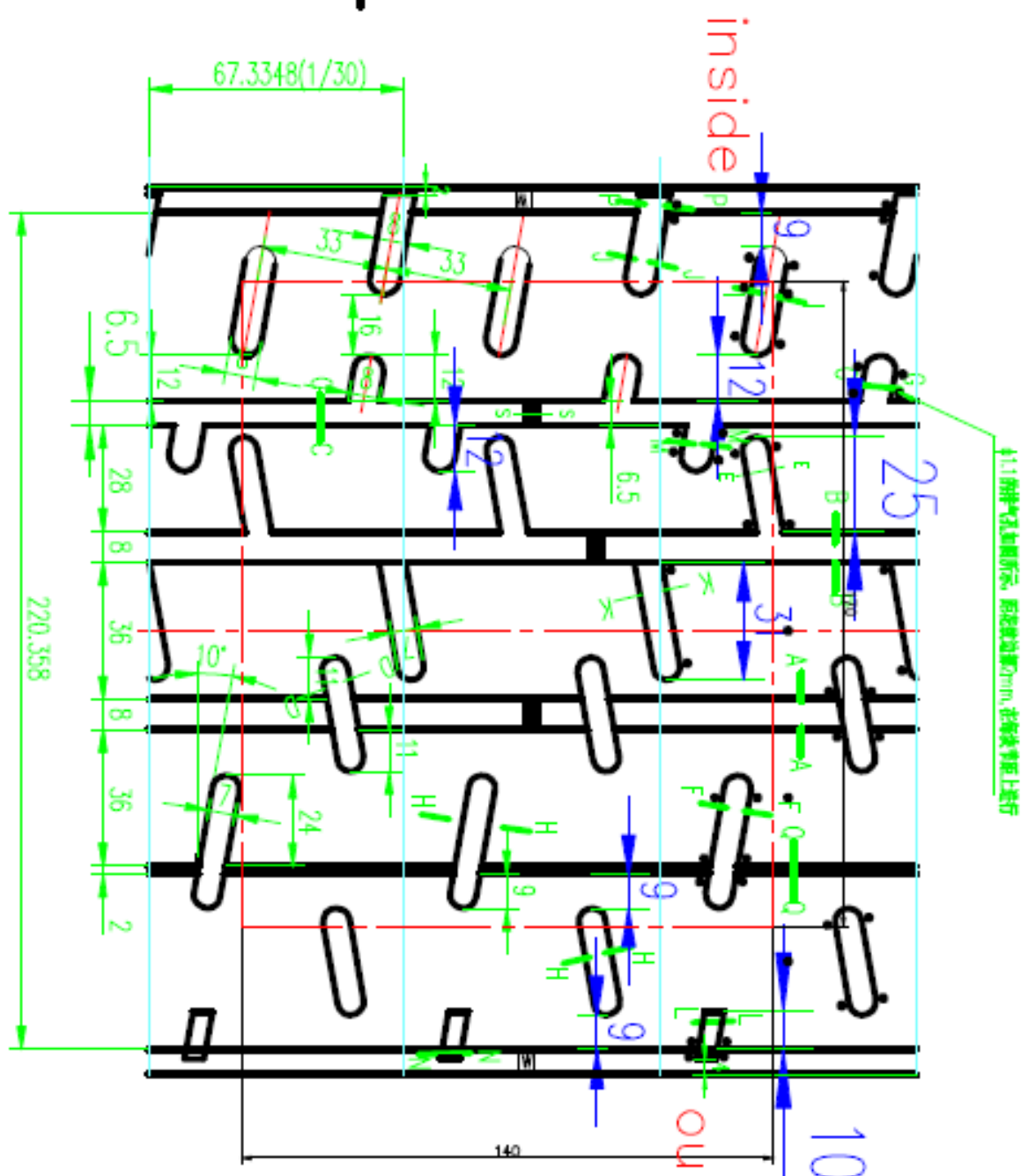
DATE SIGN



DMACK
16FB001

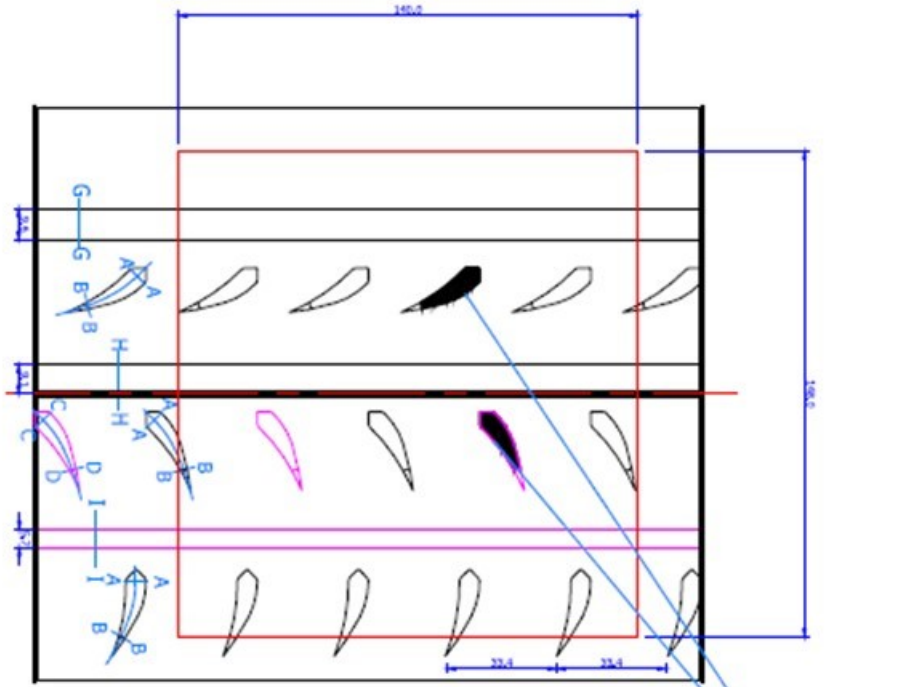
17" – 225/45-17

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

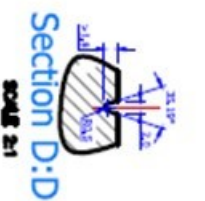
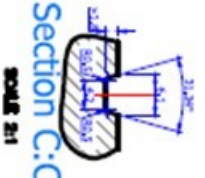
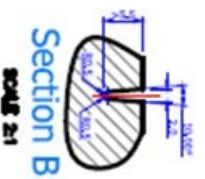
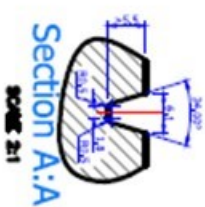
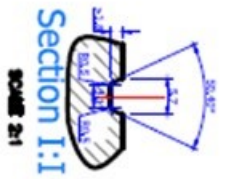
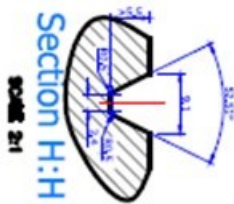
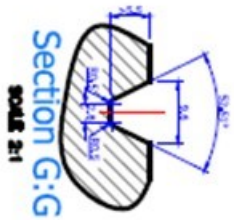


设计	审核	工艺	批准	名称	日期	图号	备注
				PATTERN		225/45R17 DMT-RC	
				材料		重量	比例
						数量	备注
				Dmack Tyre Ltd			

17" – 205/45-17



Single element
area 93.7mm²



RIM 7.0" Class 8"

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

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

DRAWING REFERENCES	APPROVAL

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

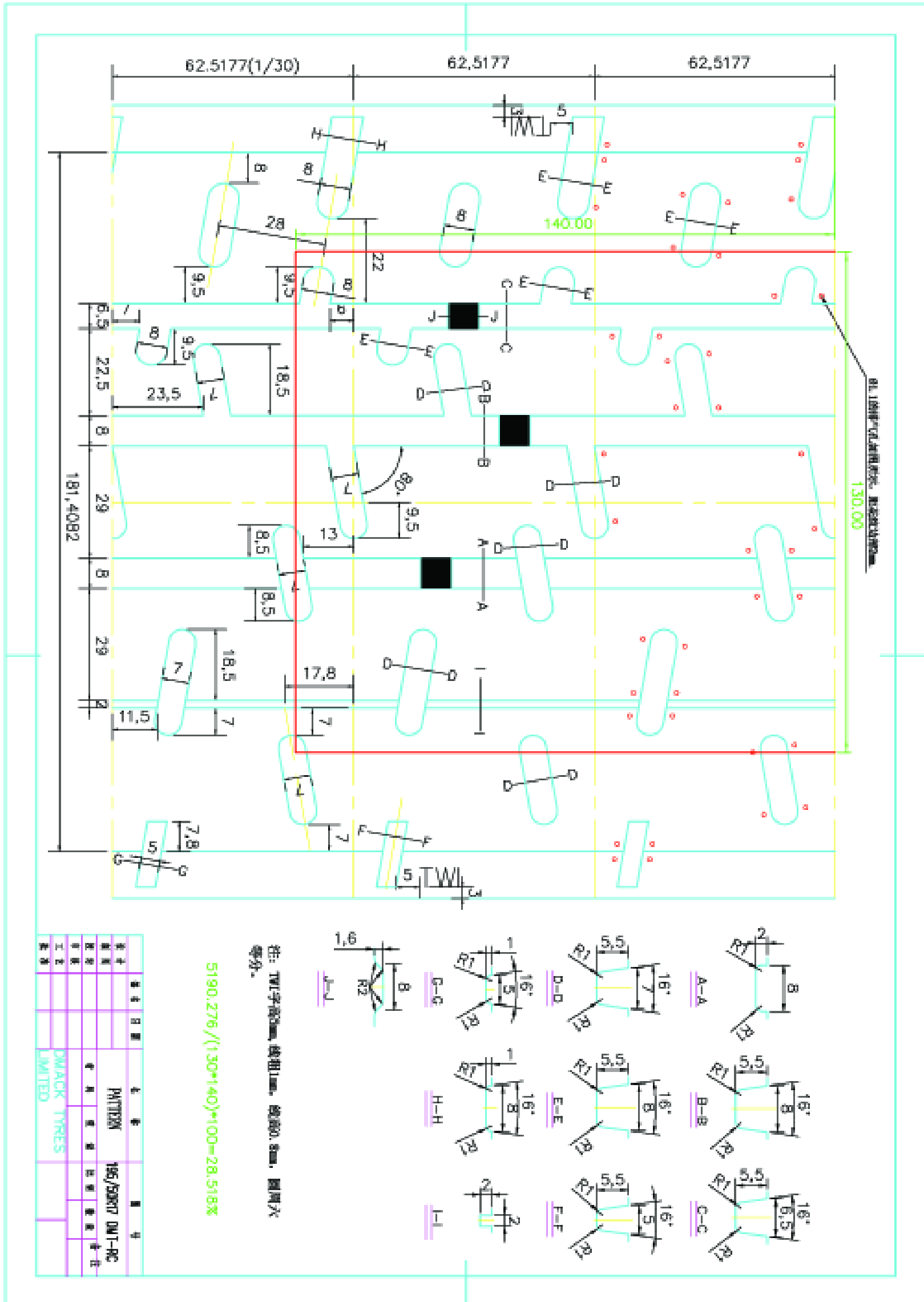
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ISSUE	MODIFICATION	DATE	SIGN
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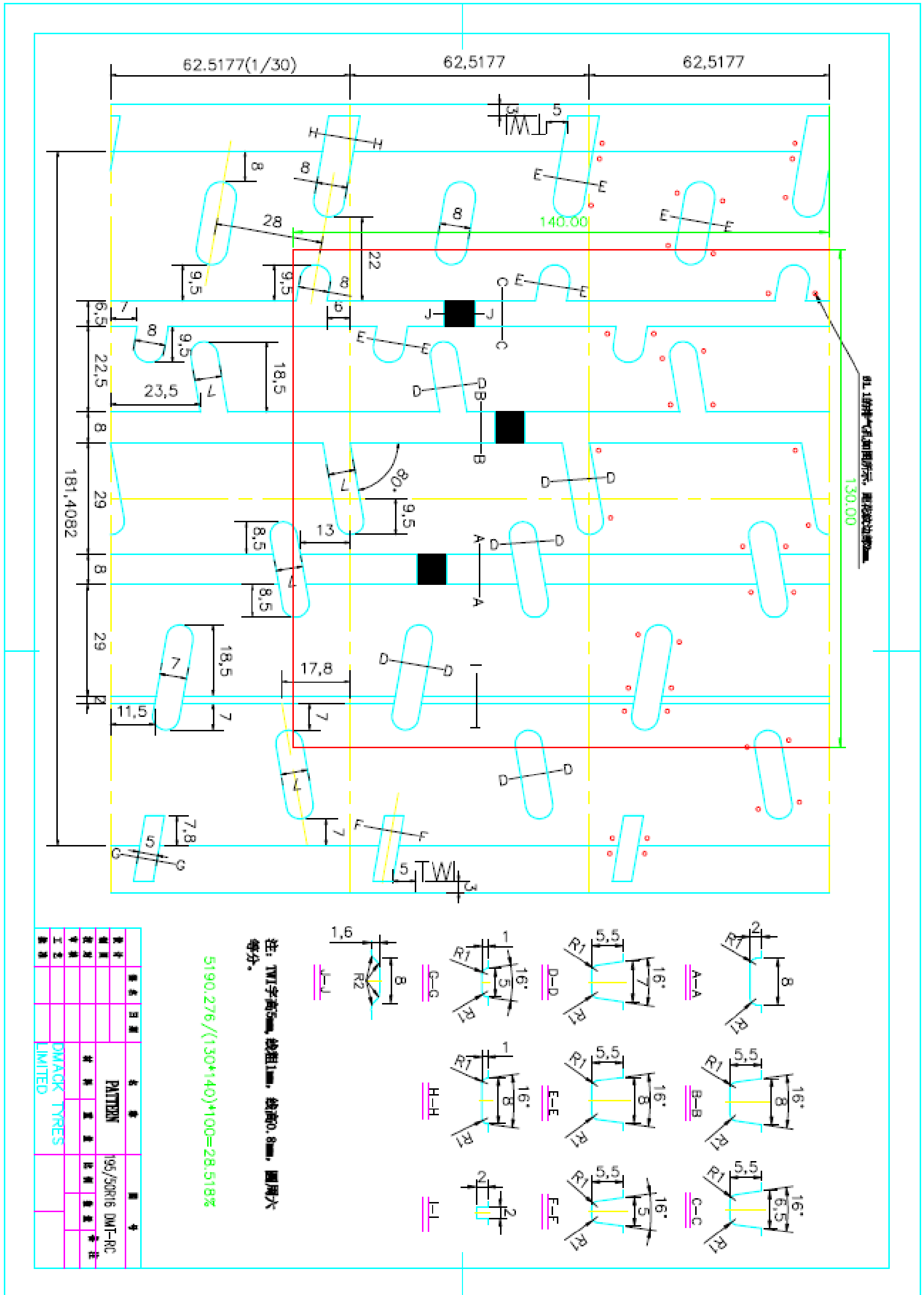


SCALE: 1:1, 2:1, 3:1
 DSN: 19/02/2016 BY: F. BWA
 16FB031

17" – 195/50-17

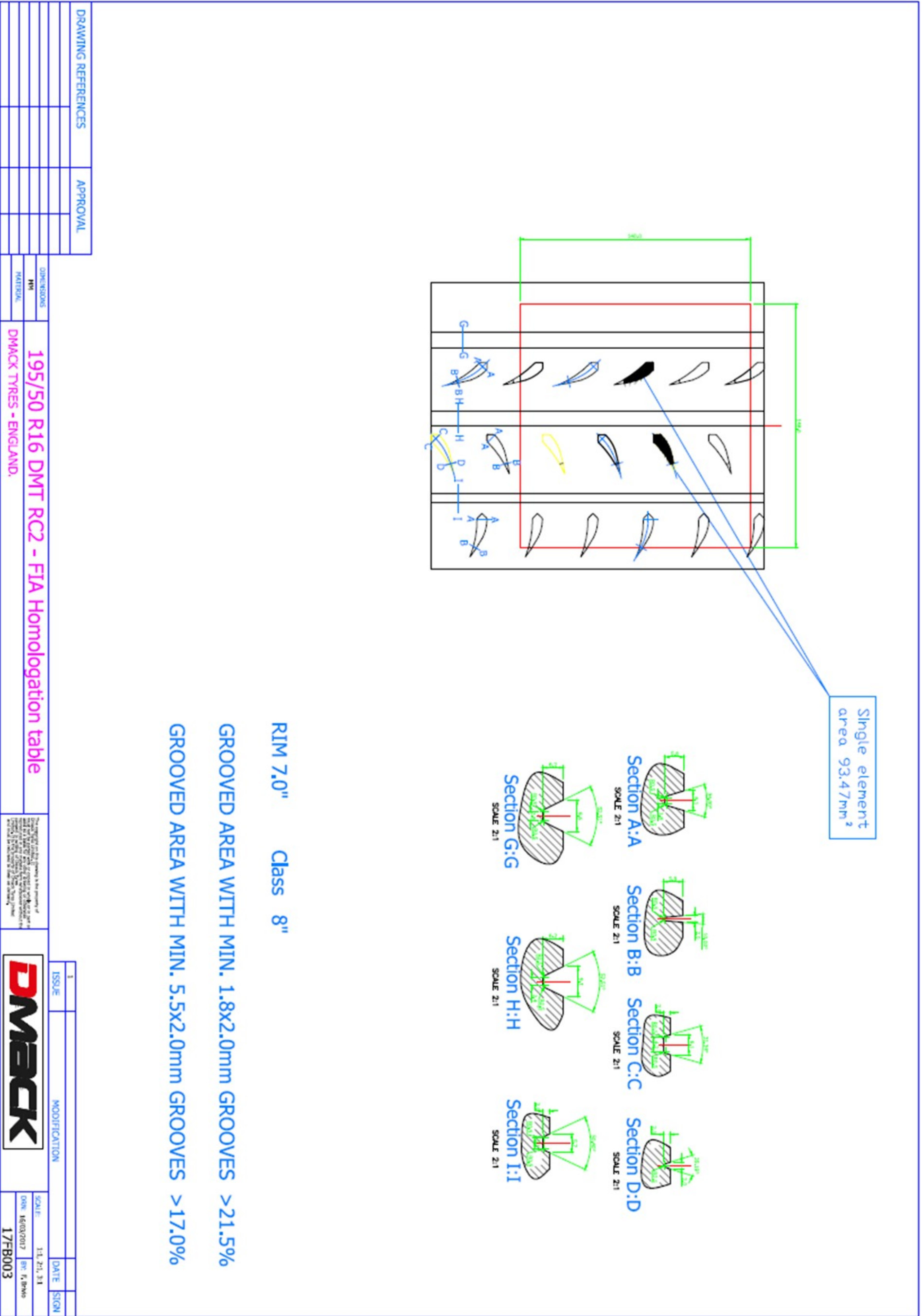


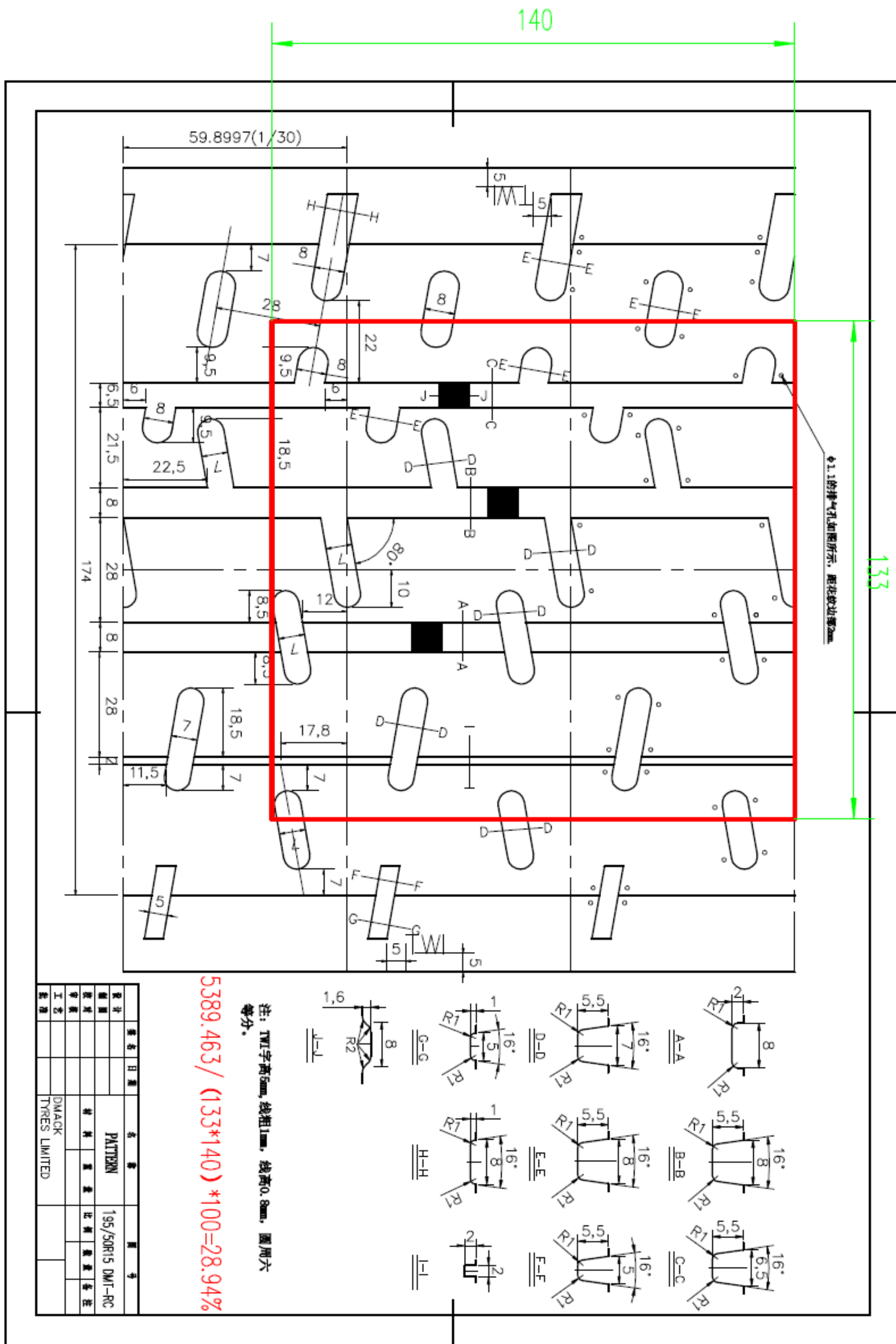
16" – 195/50-16



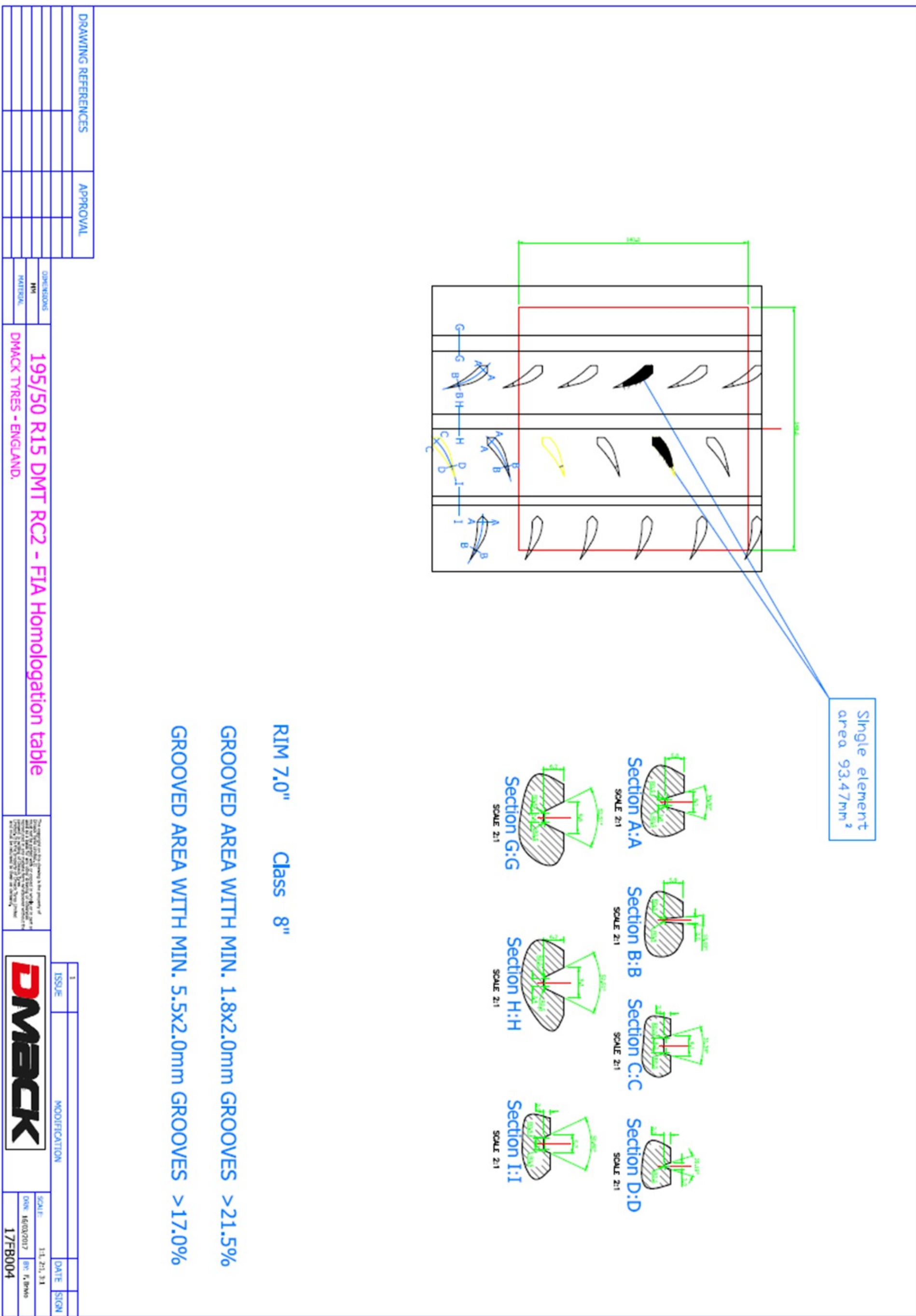
項目	內容
產品名稱	PATTERN
規格	195/50R16 DMF-RC
廠牌	DMACK TYRES LIMITED
備註	
圖號	

16" – 195/50-16





15" – 195/50-15



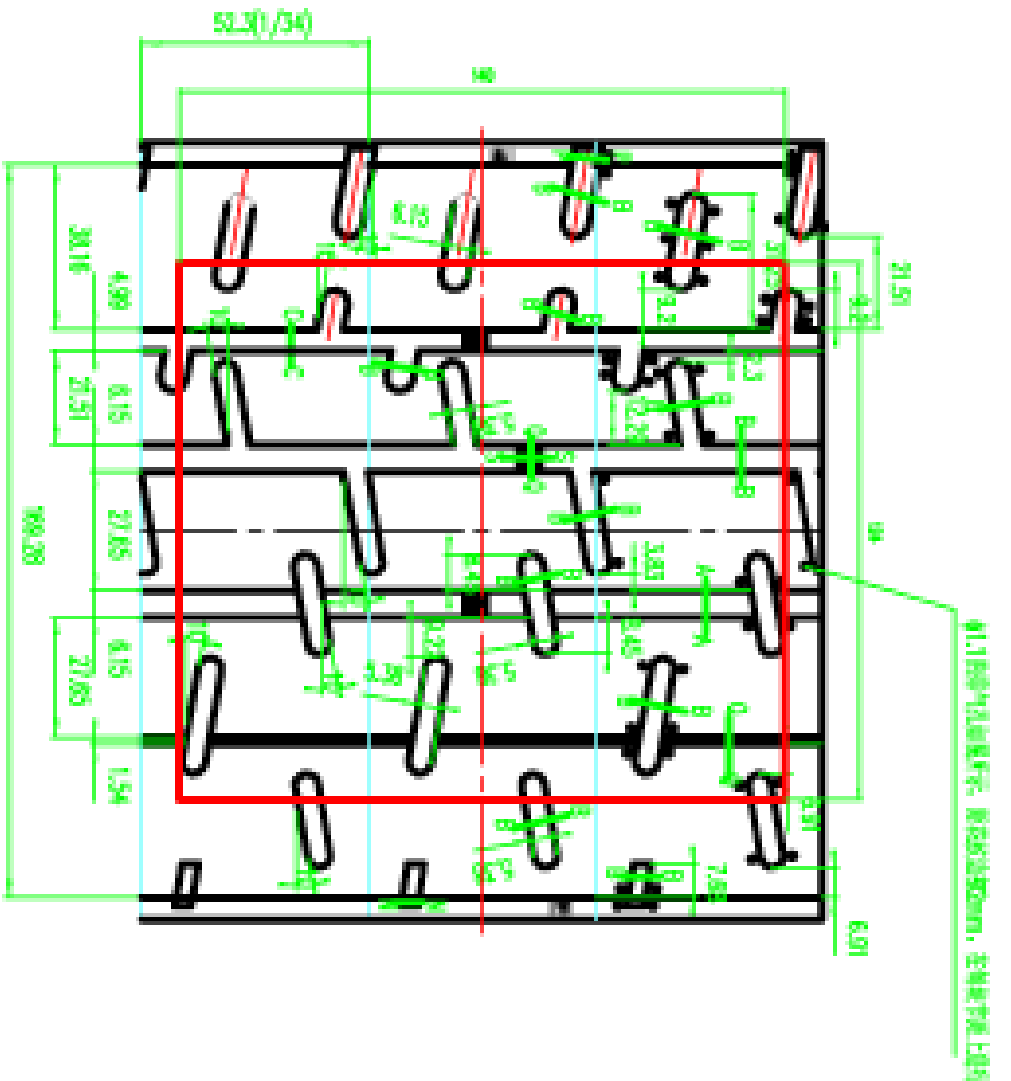
Single element
area 93.47mm²

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%

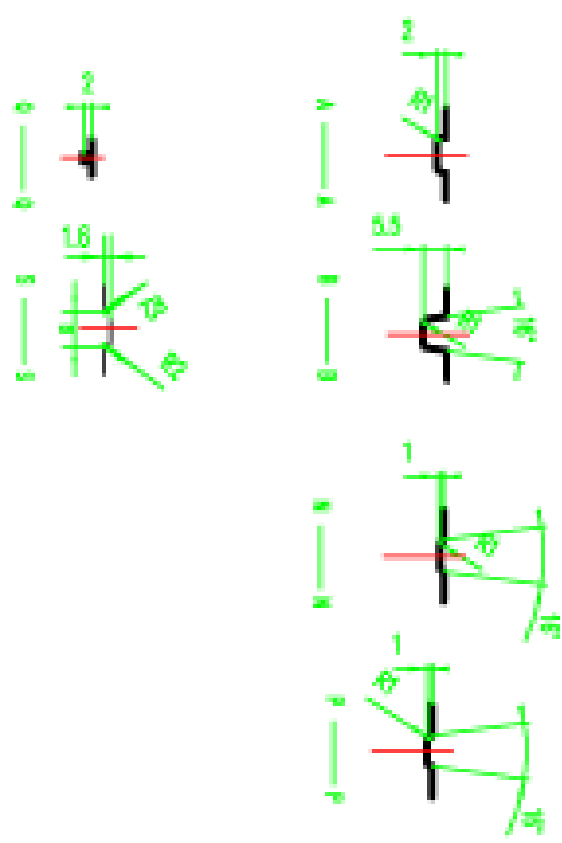
DRAWING REFERENCES		APPROVAL	
DIMENSIONS			
HM		195/50 R15 DMT RC2 - FIA Homologation table	
MATERIAL		DMACK TYRES - ENGLAND.	
<p>The information on this drawing is the property of DMACK Tyres. It is not to be used, copied, or reproduced in any form without the written permission of DMACK Tyres. DMACK Tyres reserves the right to change the information on this drawing without notice.</p>			
ISSUE		MODIFICATION	
1			
DATE		SIGN	
SCALE: 1:1, 2:1, 3:1			
DATE: 16/03/2017		BY: F. BWH	
17FB004			

14" – 175/60-14



注：TWI字高3mm，线粗1mm，线高0.8mm，圆周六等分

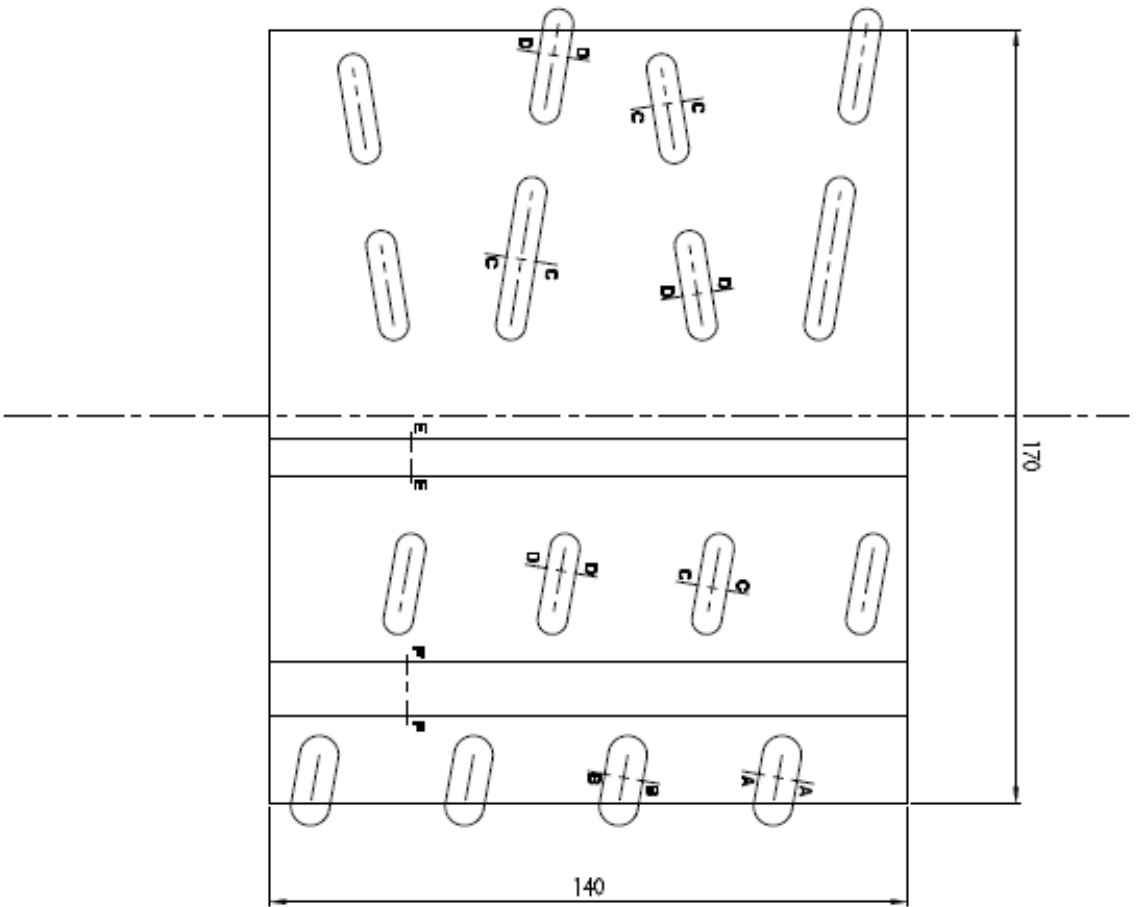
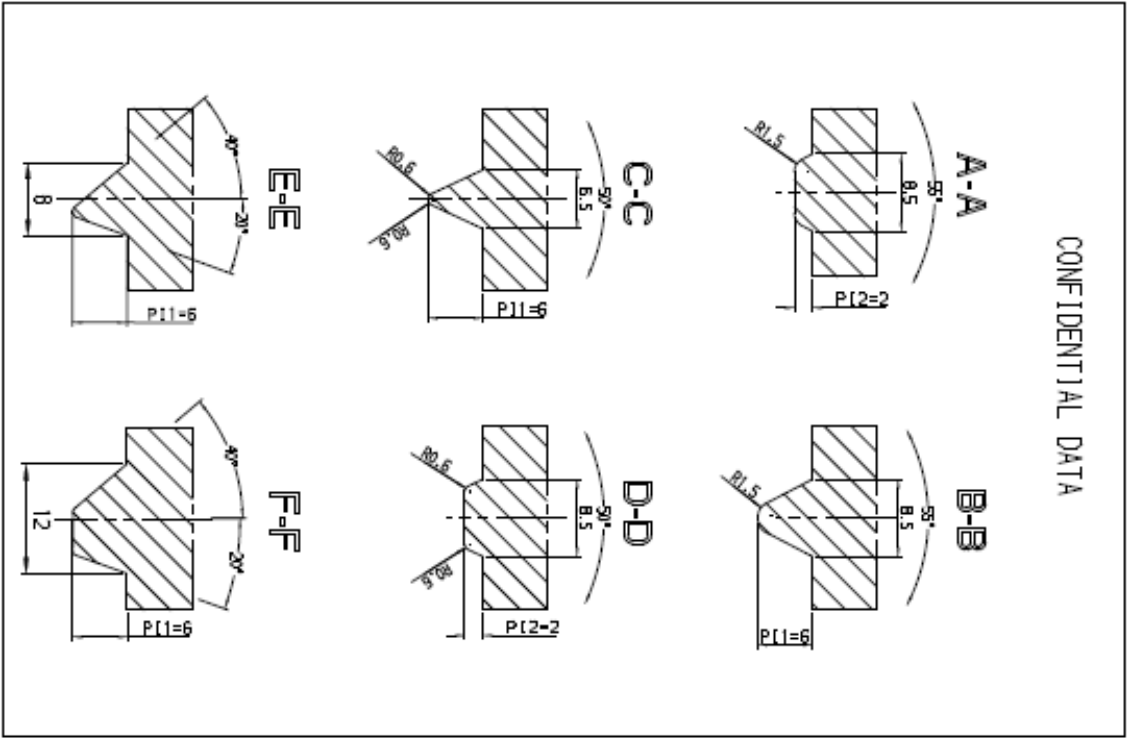
GROOVES SURFACE AREA=4292.808;
CONTROL SURFACE 17360;
4292.808/17360=24.728%



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

18" – 235/40-18

CONFIDENTIAL DATA

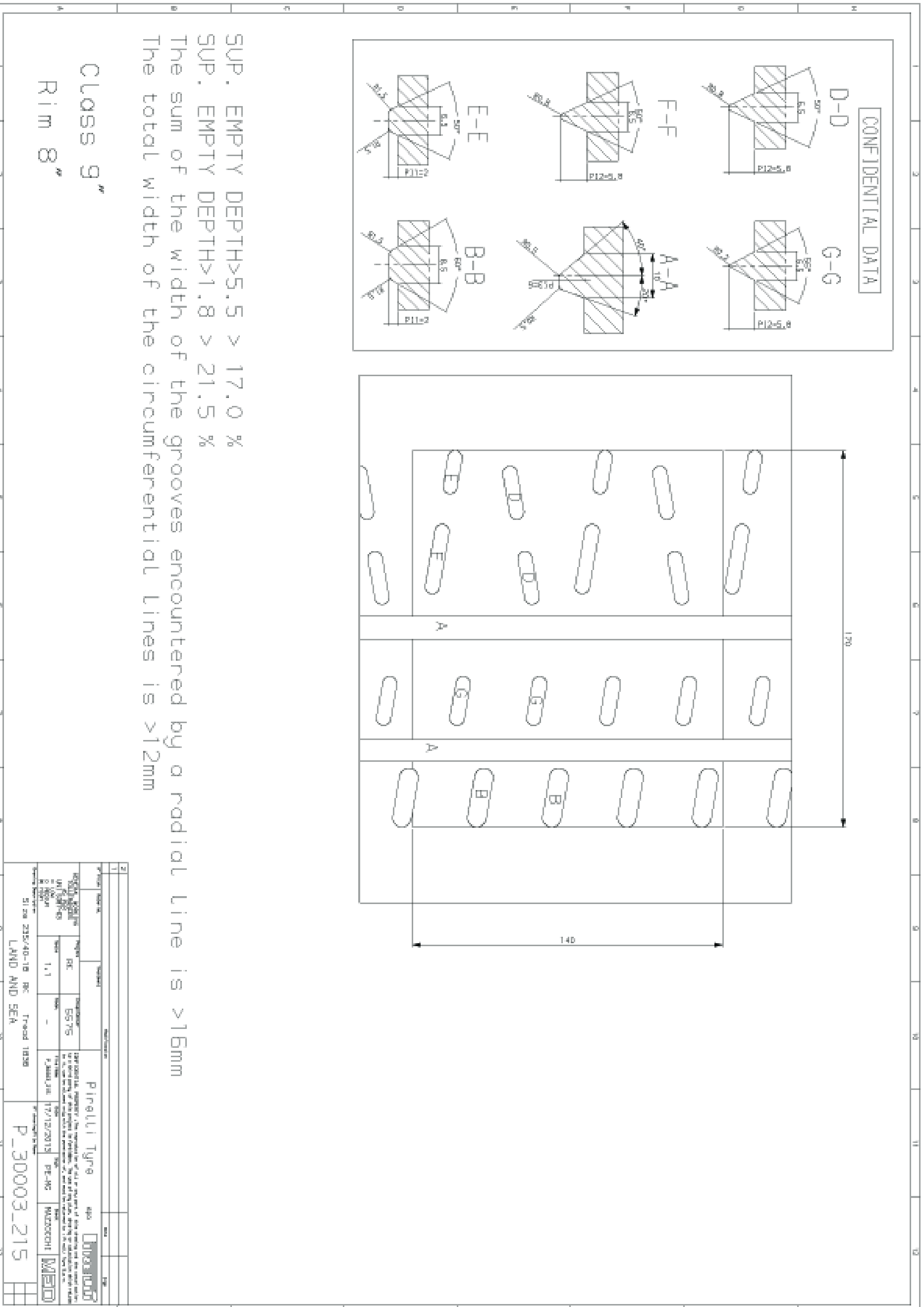


SUP. EMPTY DEPTH>5.5 > 17.0 %
 SUP. EMPTY DEPTH>1.8 > 21.5 %
 The sum of the width of the grooves encountered by a radial line is >16mm
 The total width of the circumferential lines is >12mm

Class 9"
 Rim 8"

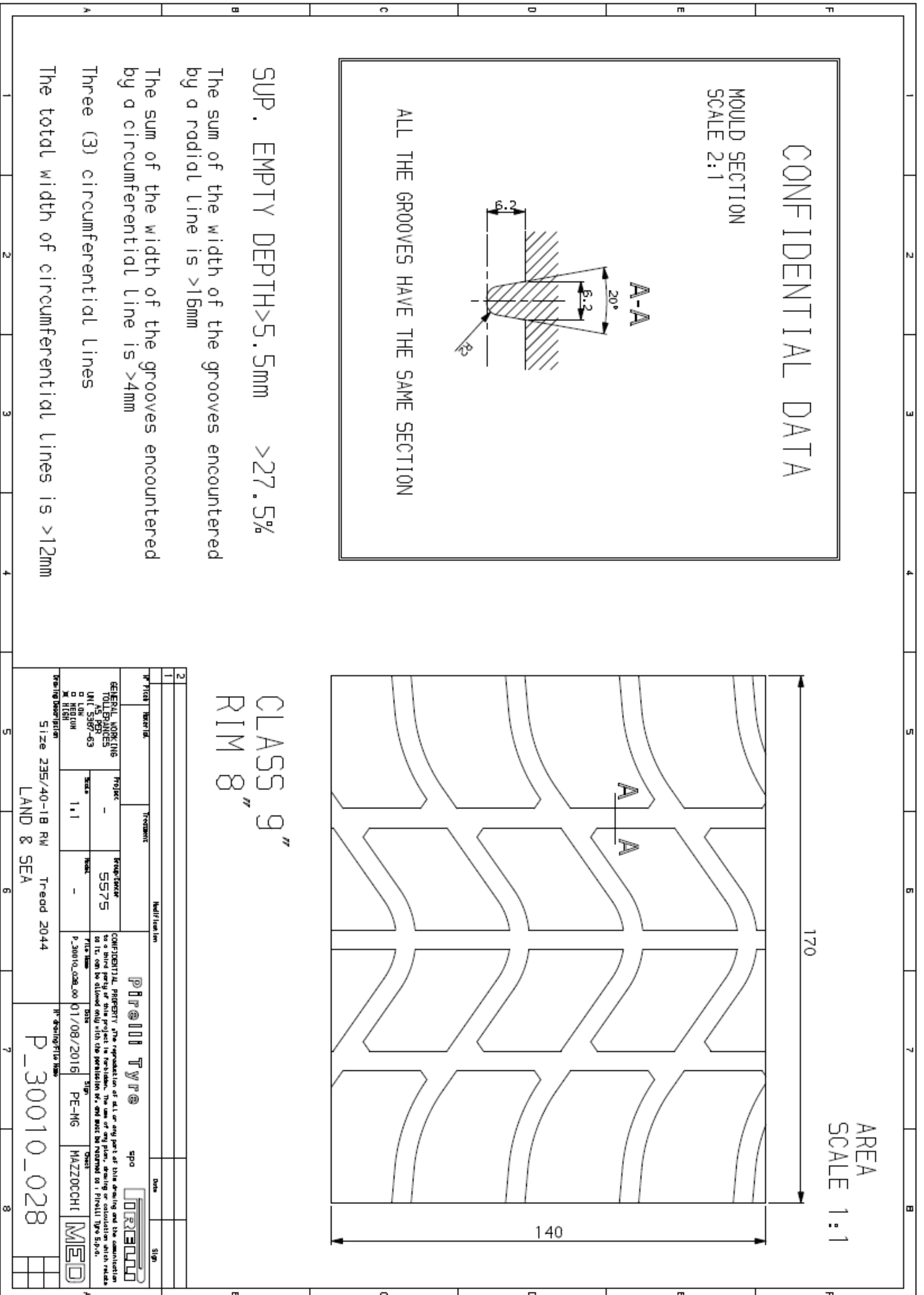
3	TRACHT TECHNISCHE		BETRIEBLICHE		Pirelli Type		spod		M&D	
GENERAL INFORMATION		REQUIREMENTS		SPECIFICATIONS		CONSTRUCTION		MATERIALS		
TIRE TYPE: 235/40-18		RA		5575		COPYRIGHT: PIRELLI		EV		
DATE: 03/04/2018		SCALE: -		P. 30015_885		P. 30015_885		SR		
SIZE: 235/40-18 RA		TRADED: 2791		LAND AND SEA		P_30015_885		M&D		

18" – 235/40-18



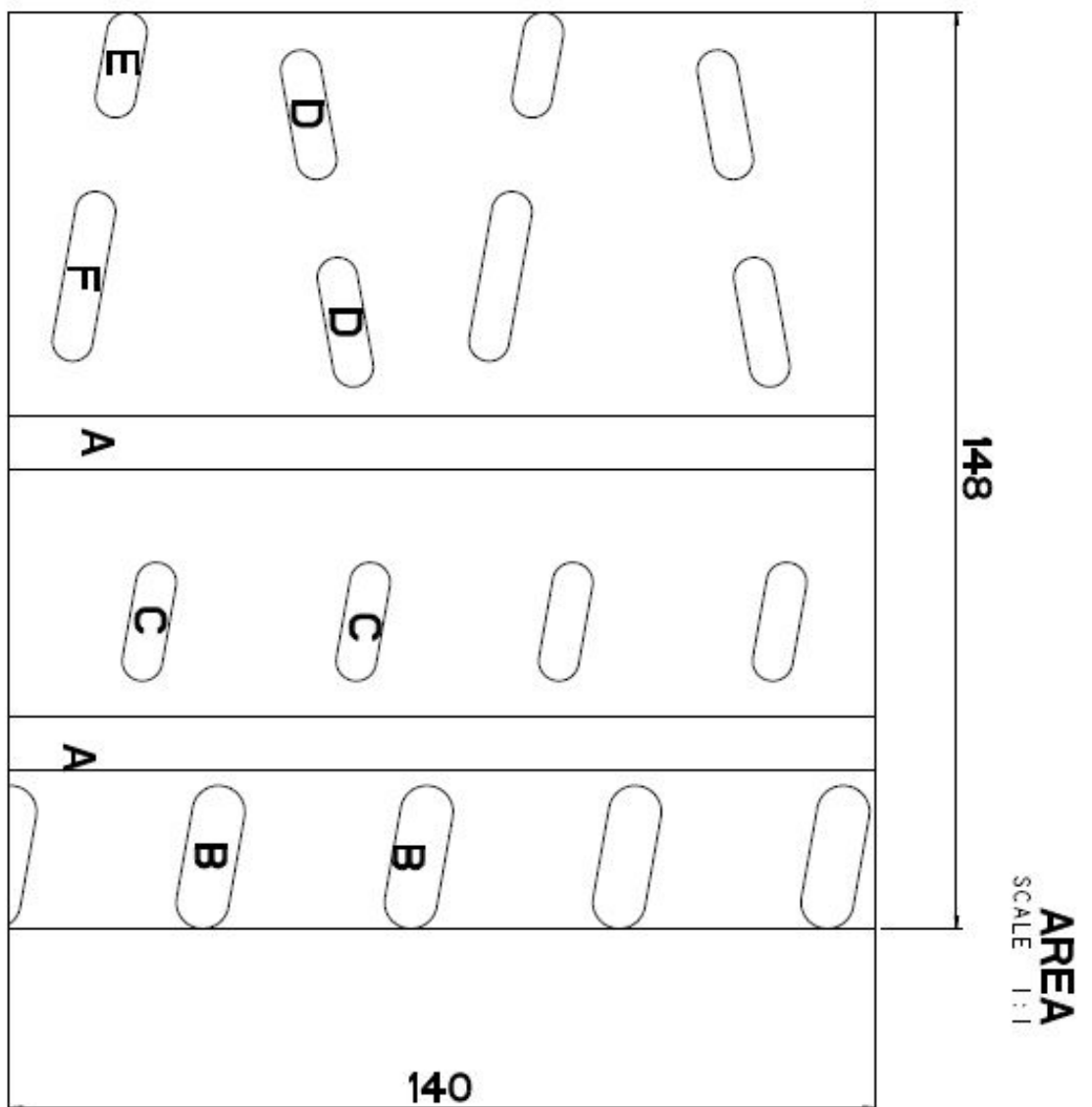
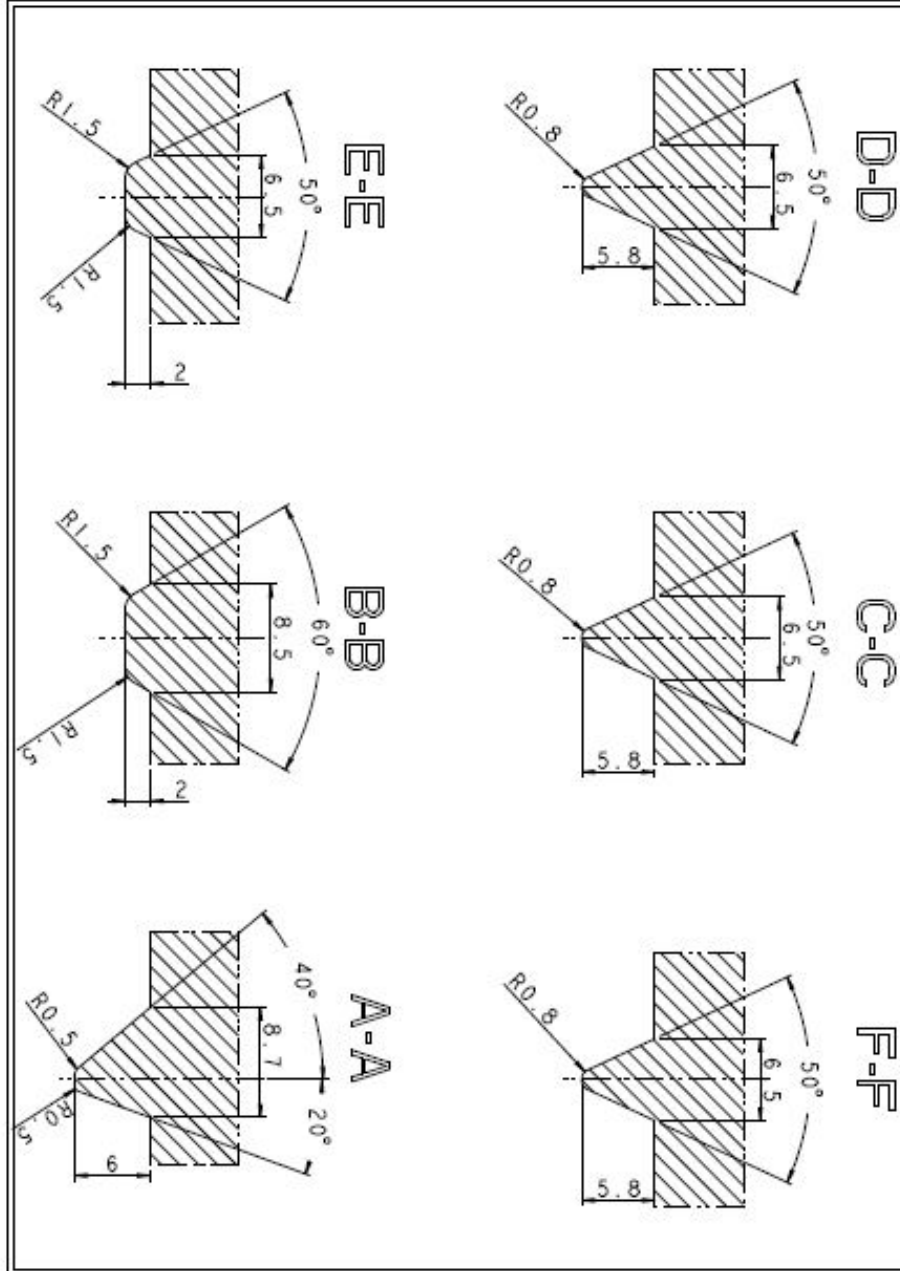


18" - 235/40 - 18



CONFIDENTIAL DATA

MOULD SECTION
SCALE 2:1



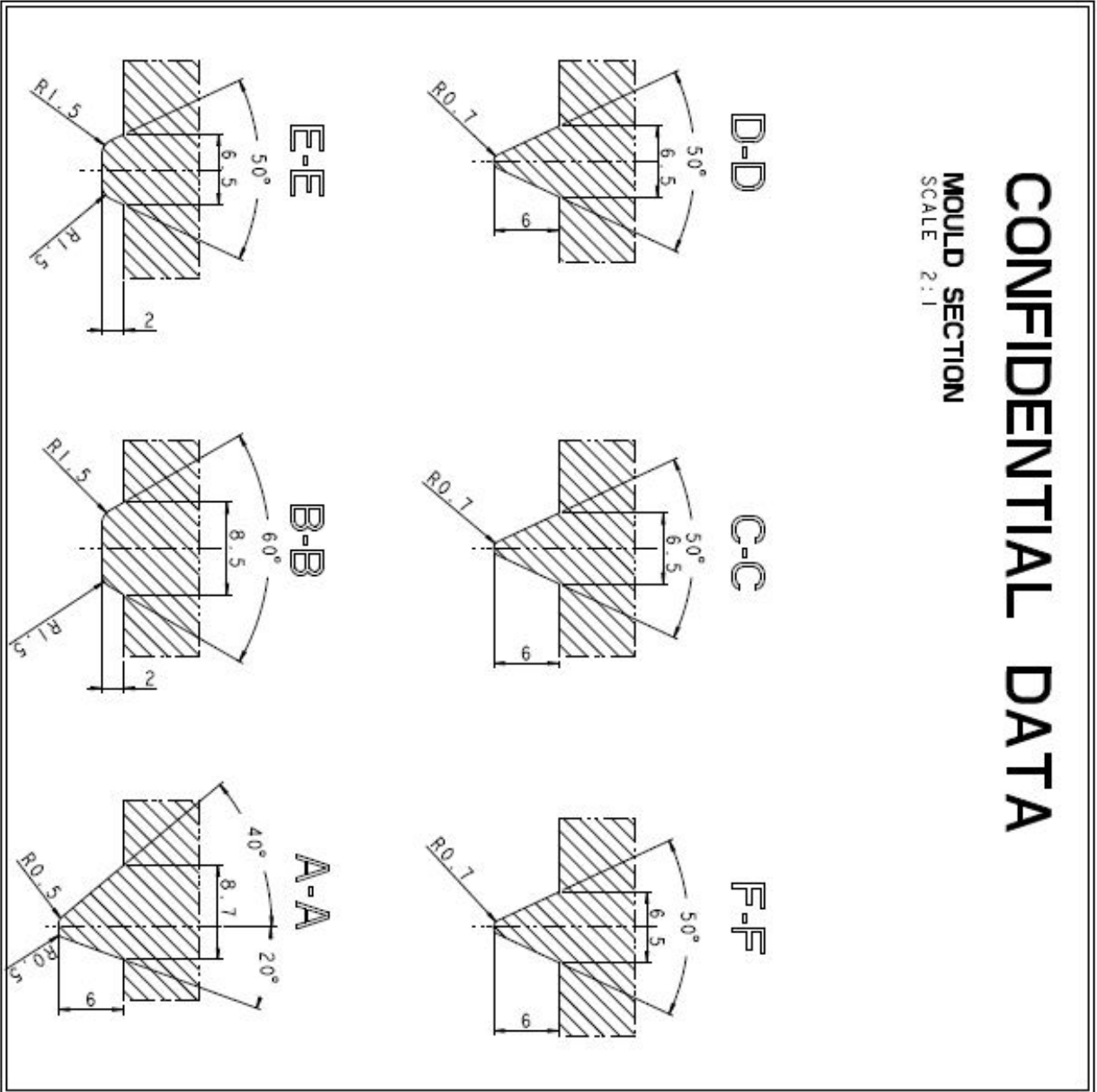
CLASS 8"
RIM 7"

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

4									
3									
2									
1									
N									
N° PITCH	MATERIAL	Treatment	Modification						
GENERAL WORKING TOLERANCE AS PER UNI 5887-85				Project	Drawn/center	CONFIDENTIAL PROPERTY: The reproduction of all or any part of this drawing and the consultation of this part is allowed only with the permission of the person in charge of the project.	Pirelli Tyre spa		
Scale				1:1	5375	19/03/2014	PE - MG	MAZZOCCHI	PRO/E
Drawing Description				Size 205/45-17 RK	Tread 1838	P_30004_292			
				LAND & SEA					

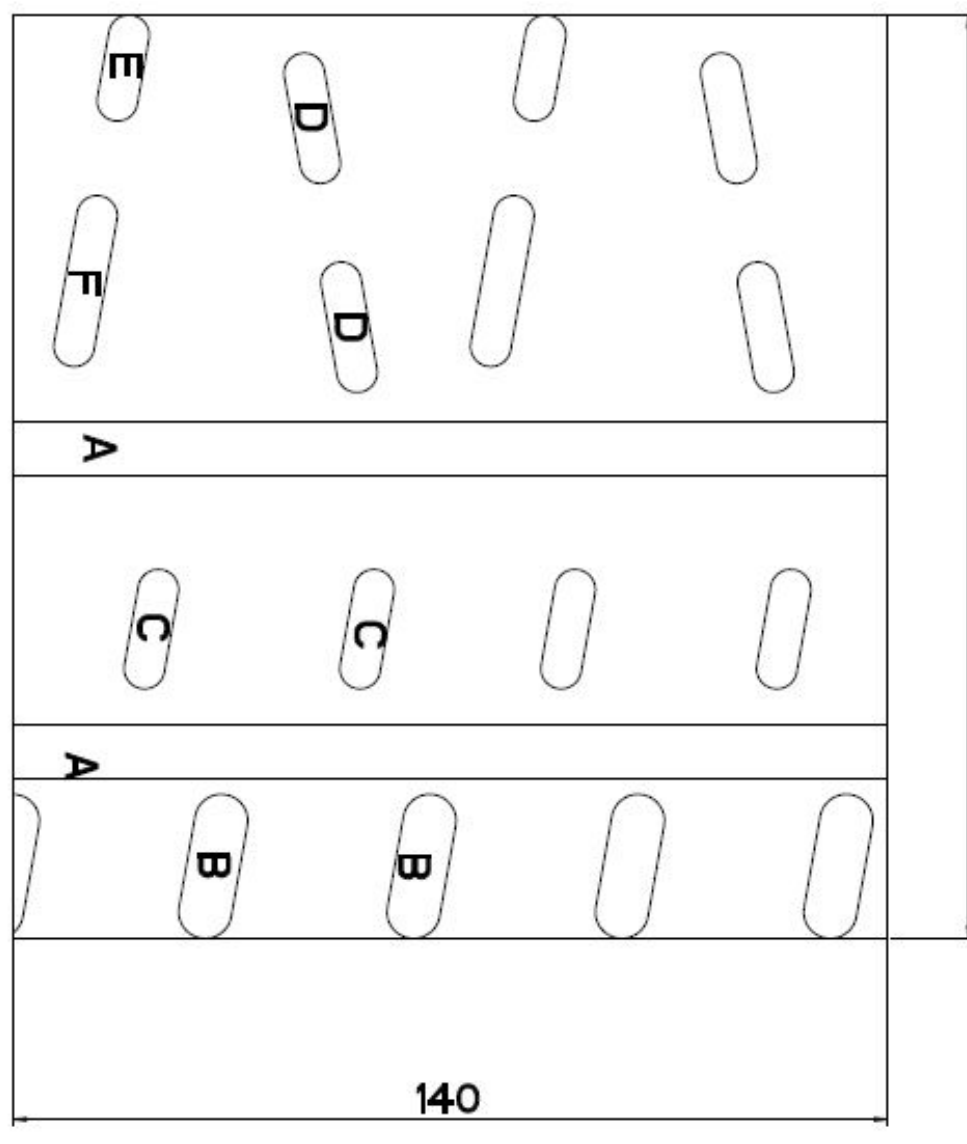
CONFIDENTIAL DATA

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

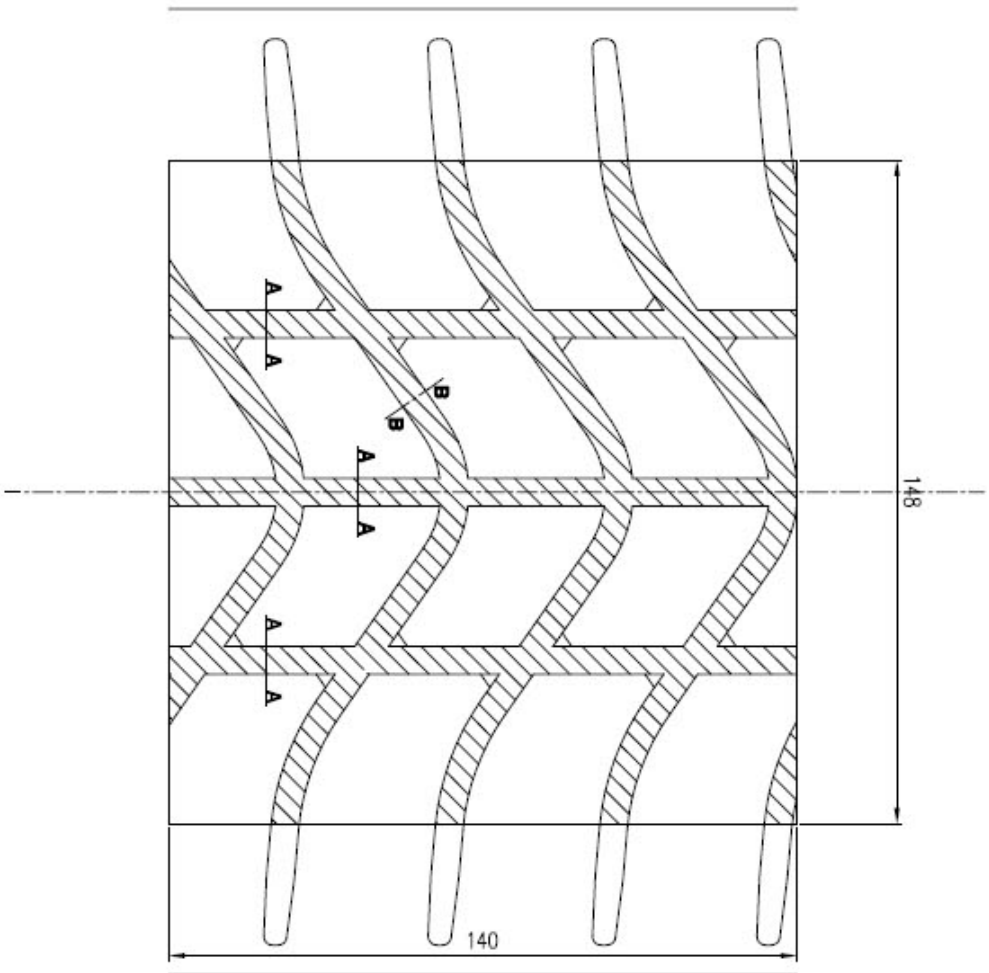
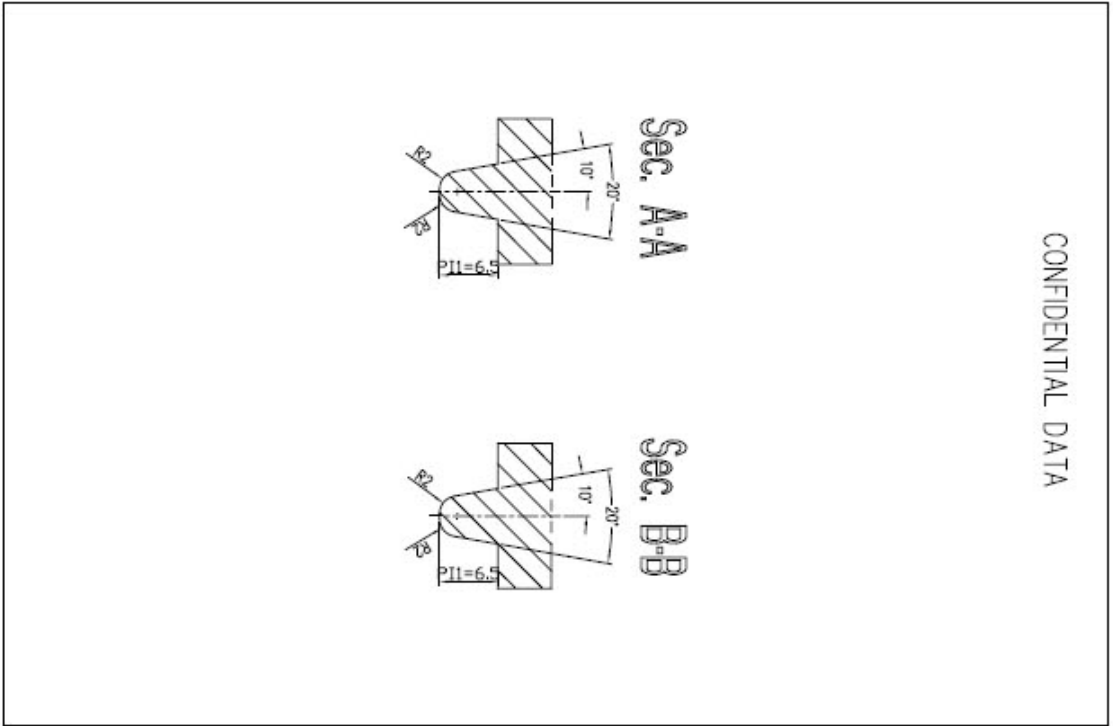
148
 AREA
 SCALE 1:1



CLASS 8"
 RIM 7"

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

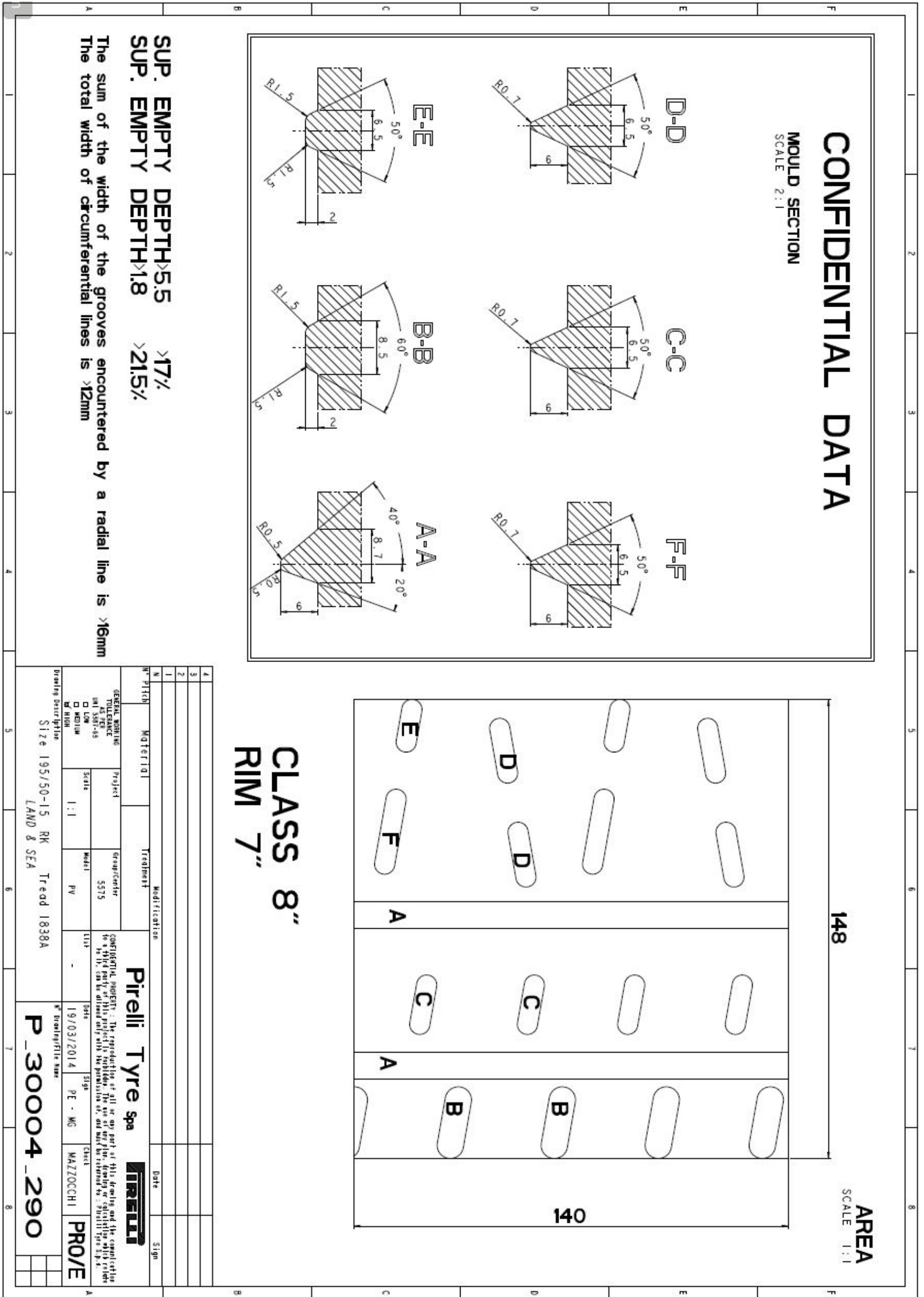
16" – 195/50-16



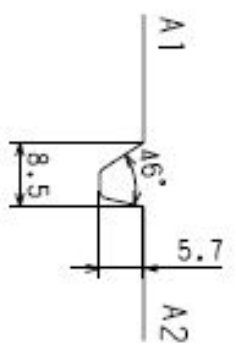
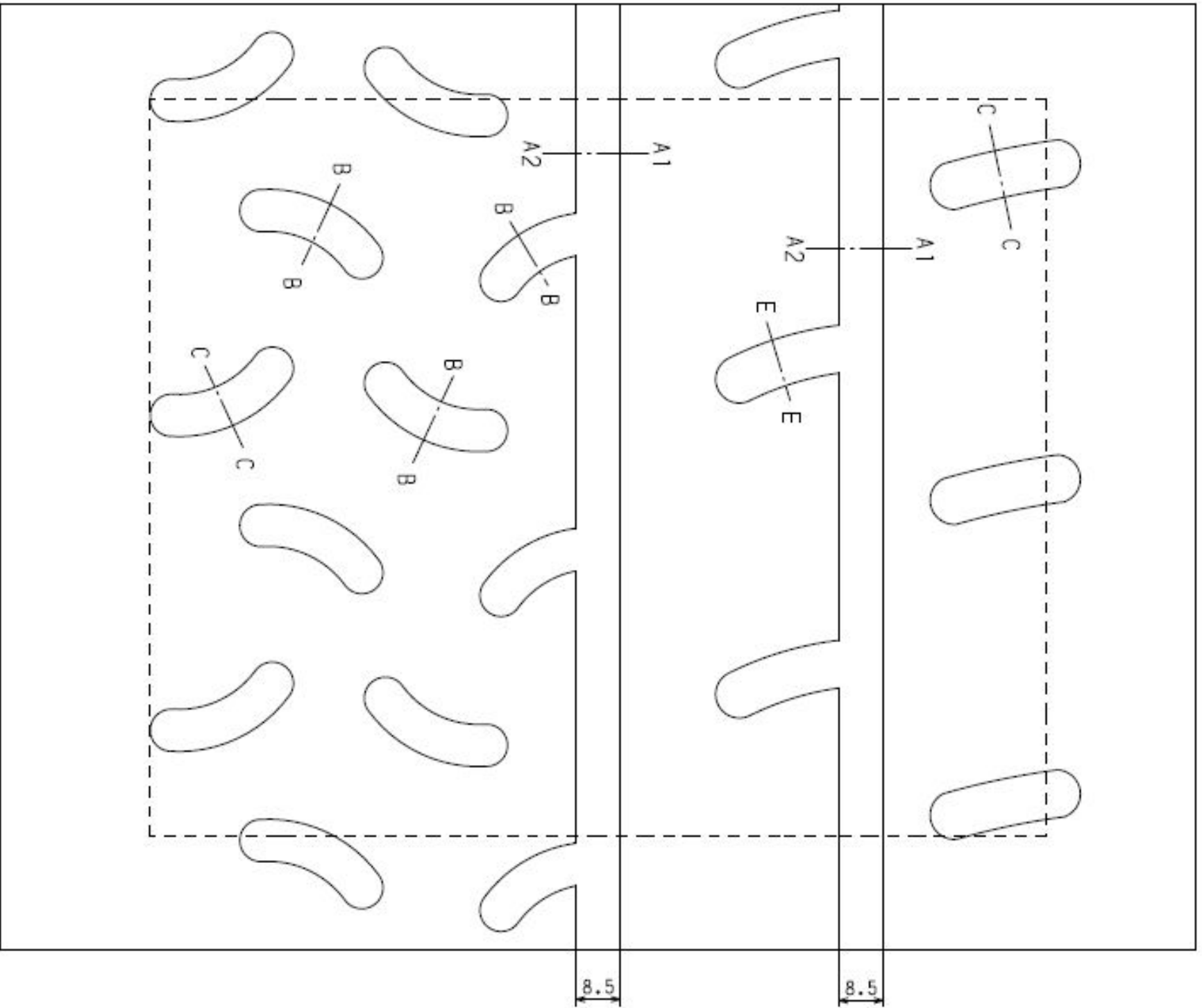
SUP. EMPTY DEPTH>5.5 > 17.0 %
 SUP. EMPTY DEPTH>1.8 > 21.5 %
 The sum of the width of the grooves encountered by a radial line is >12mm
 The total width of the circumferential lines is >16mm

Class 8"
 Rim 6.5"

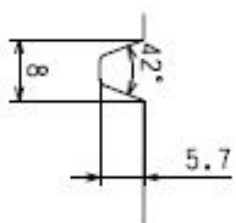
GENERAL WARNING		CONFIDENTIAL PROPERTY		Pirelli Tyre	
TOLERANCES		RW 5.575		EV	
SIZE 195/50 R16 RW		Tread 2044		SR	
LAND AND SEA		P_30016_172		SR	
Date		01/05/2018		SR	
Signature		MEDI		SR	



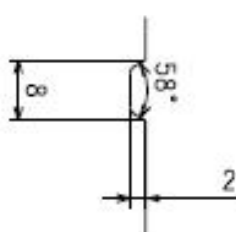
18" – 235/40-18



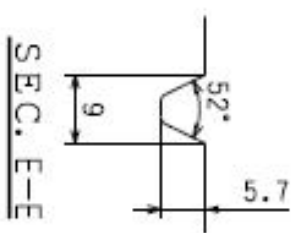
SEC. A1-A2



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

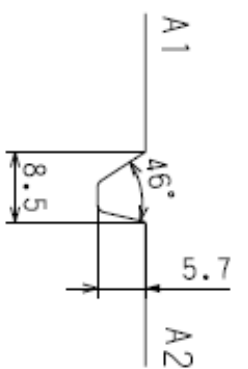
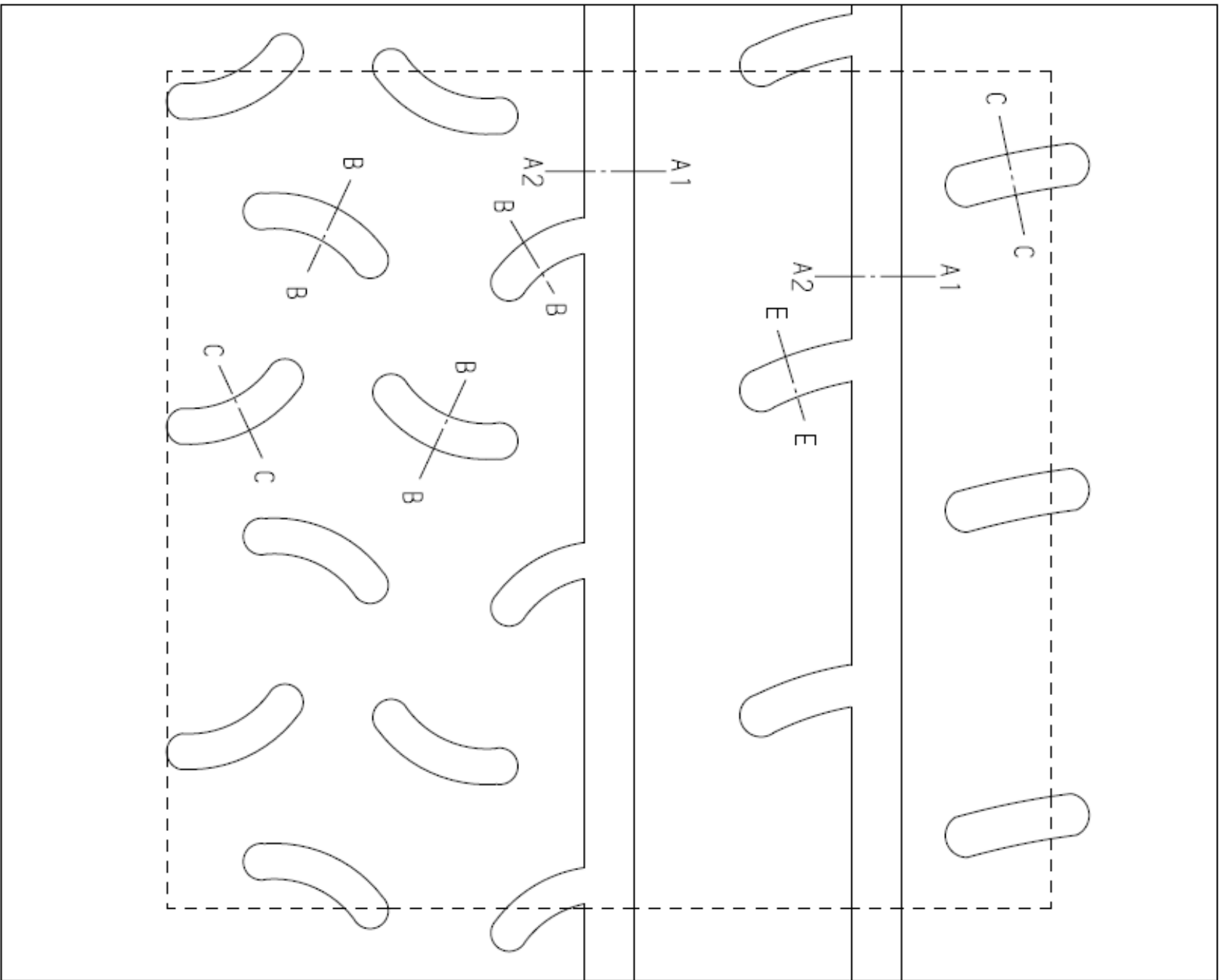
Tyre weight 9.7kg

PRODUCT NAME
YOKOHAMA ADVAN A051T

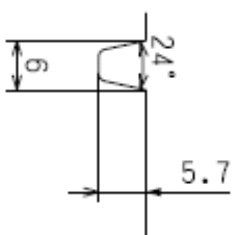
PATTERN NAME
A051A

SIZE 210/650R18

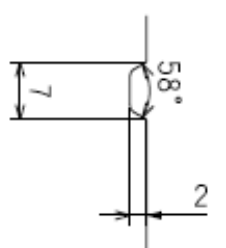
17" – 190/625-17



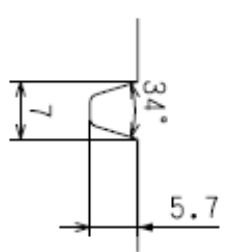
SEC. A1-A2



SEC. B-B



SEC. C-C



SEC. E-E

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

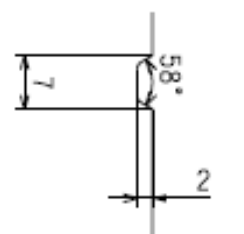
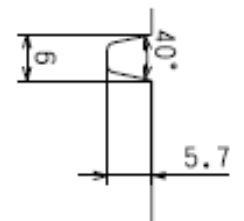
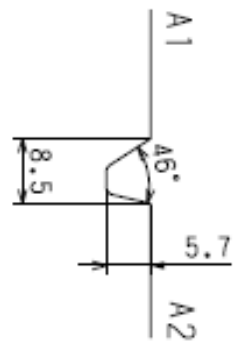
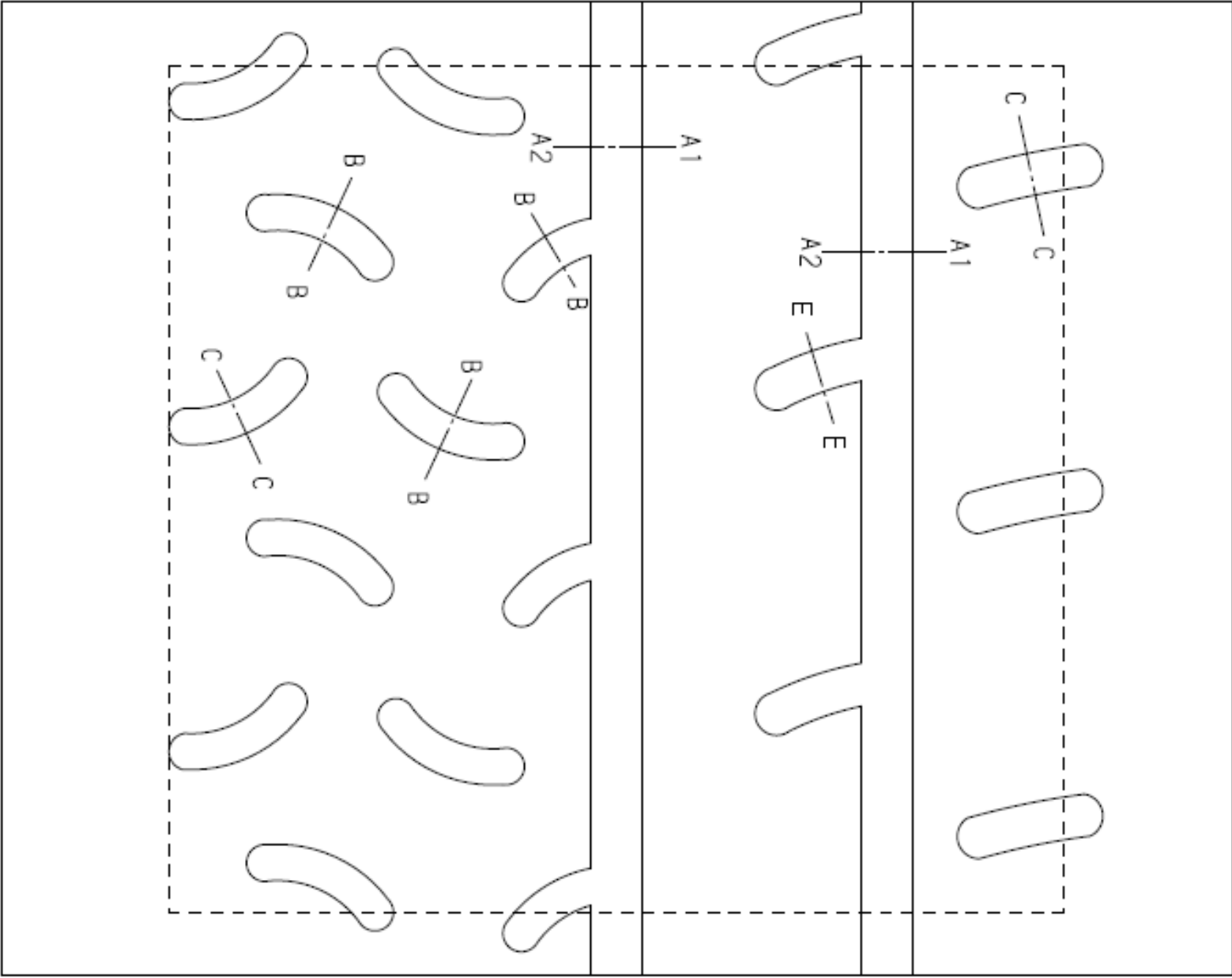
----- Control area 148X140

PRODUCT NAME
YOKOHAMA ADVAN A0517

PATTERN NAME
A051A

SIZE 190/625R17

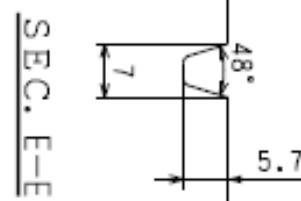
17" – 210/625-17



SEC. A1-A2

SEC. B-B

SEC. C-C



SEC. E-E

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

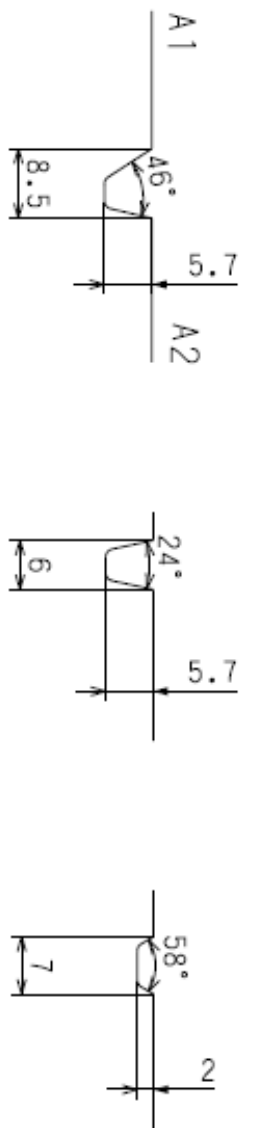
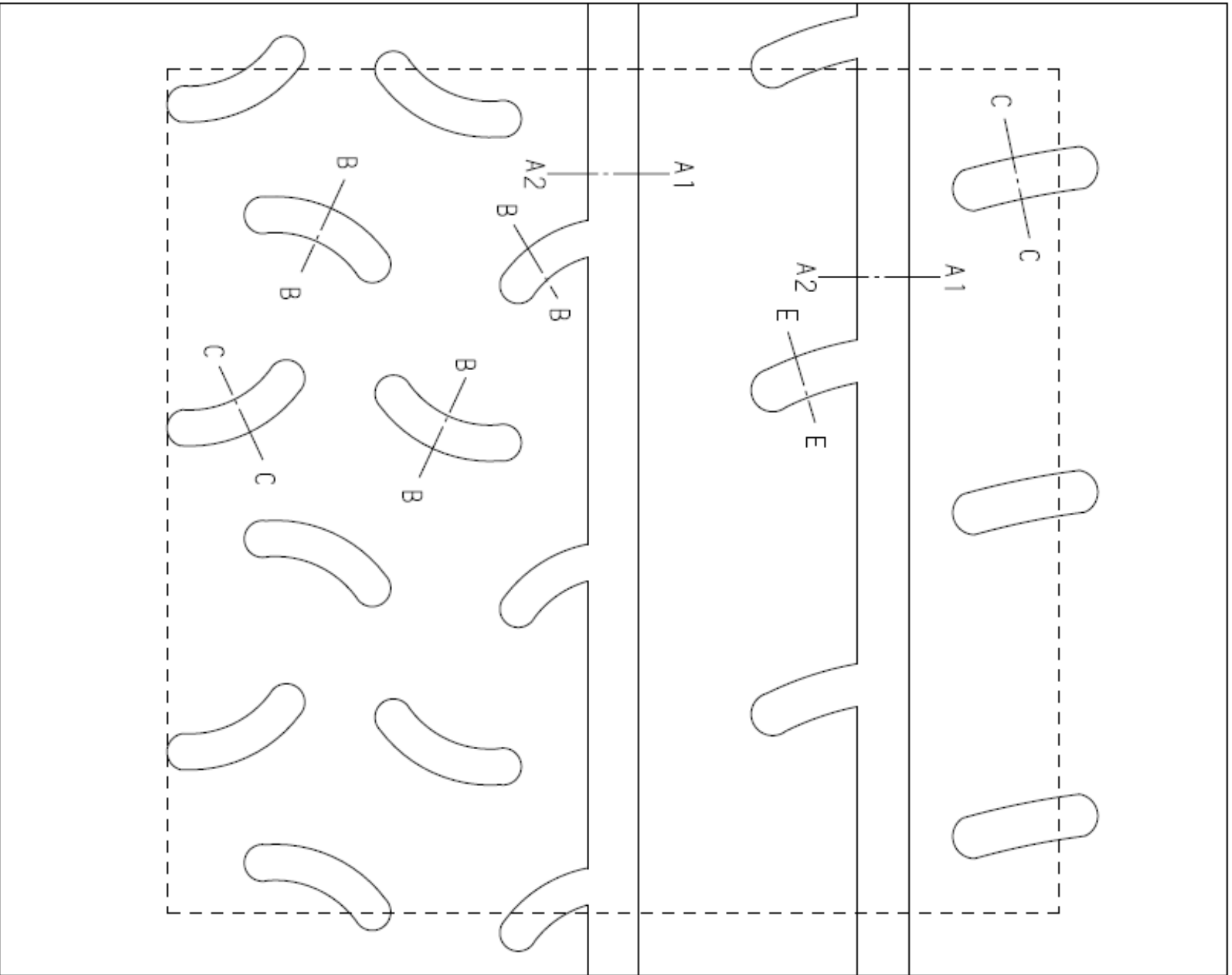
----- Control area 170X140

PRODUCT NAME
YOKOHAMA ADVAN A051T

PATTERN NAME
A051A

SIZE 210/625R17

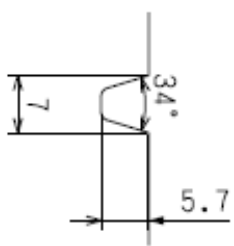
16" – 190/600-16



SEC. A1-A2

SEC. B-B

SEC. C-C



SEC. E-E

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

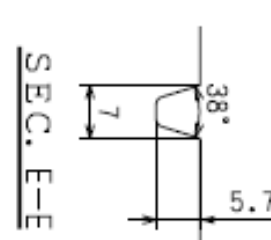
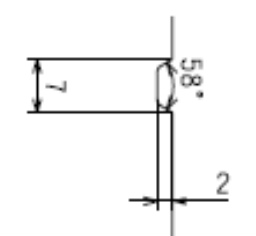
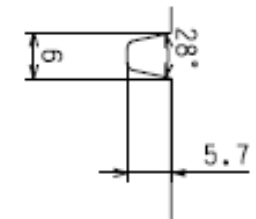
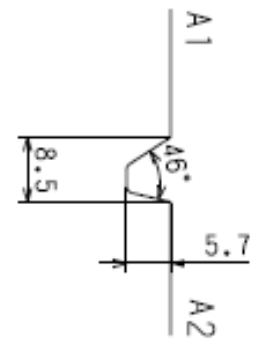
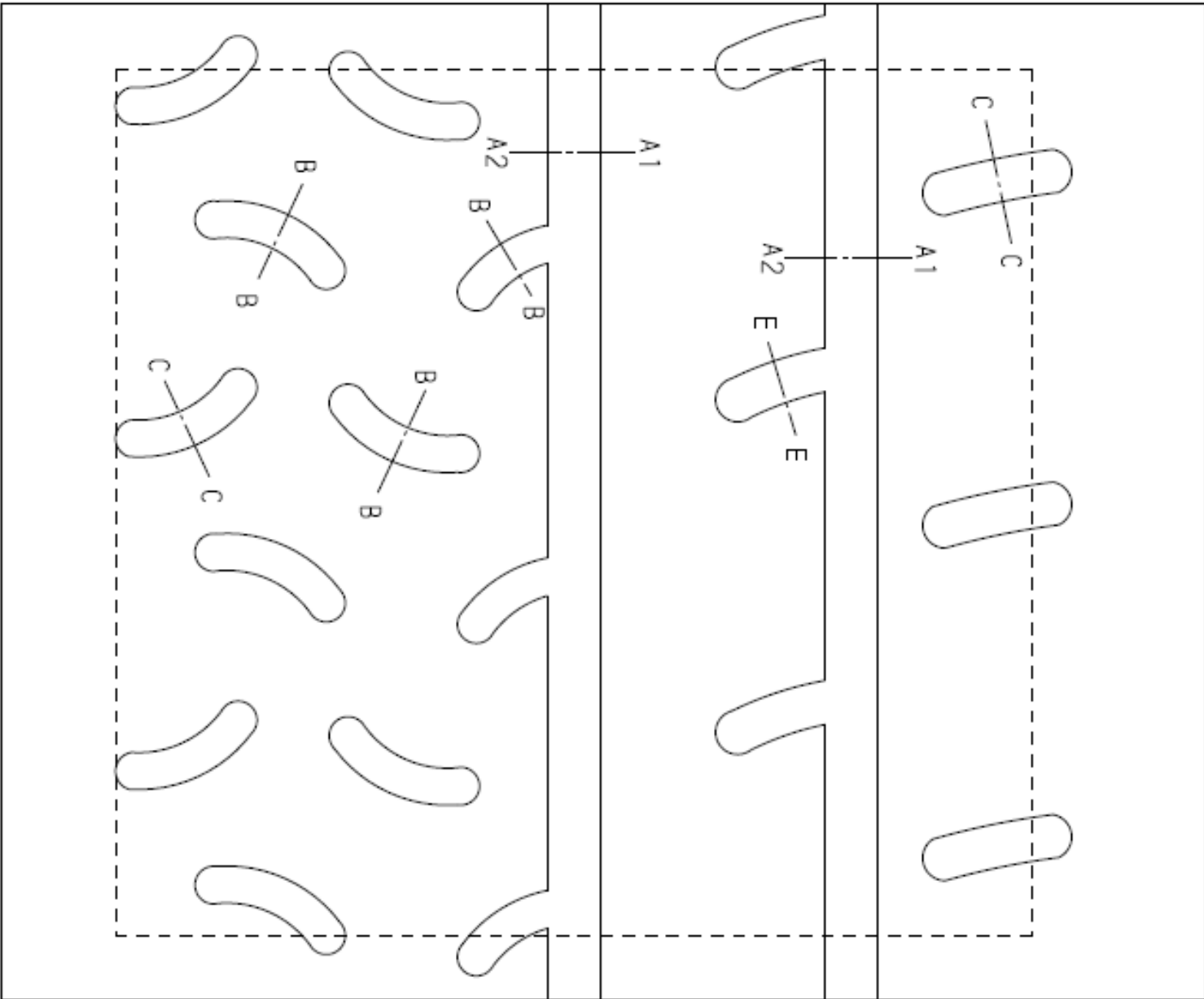
----- Control area 148X140

PRODUCT NAME
YOKOHAMA ADVAN A051T

PATTERN NAME
A051A

SIZE 190/600R16

15" – 190/580-15



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

----- Control area 148X140

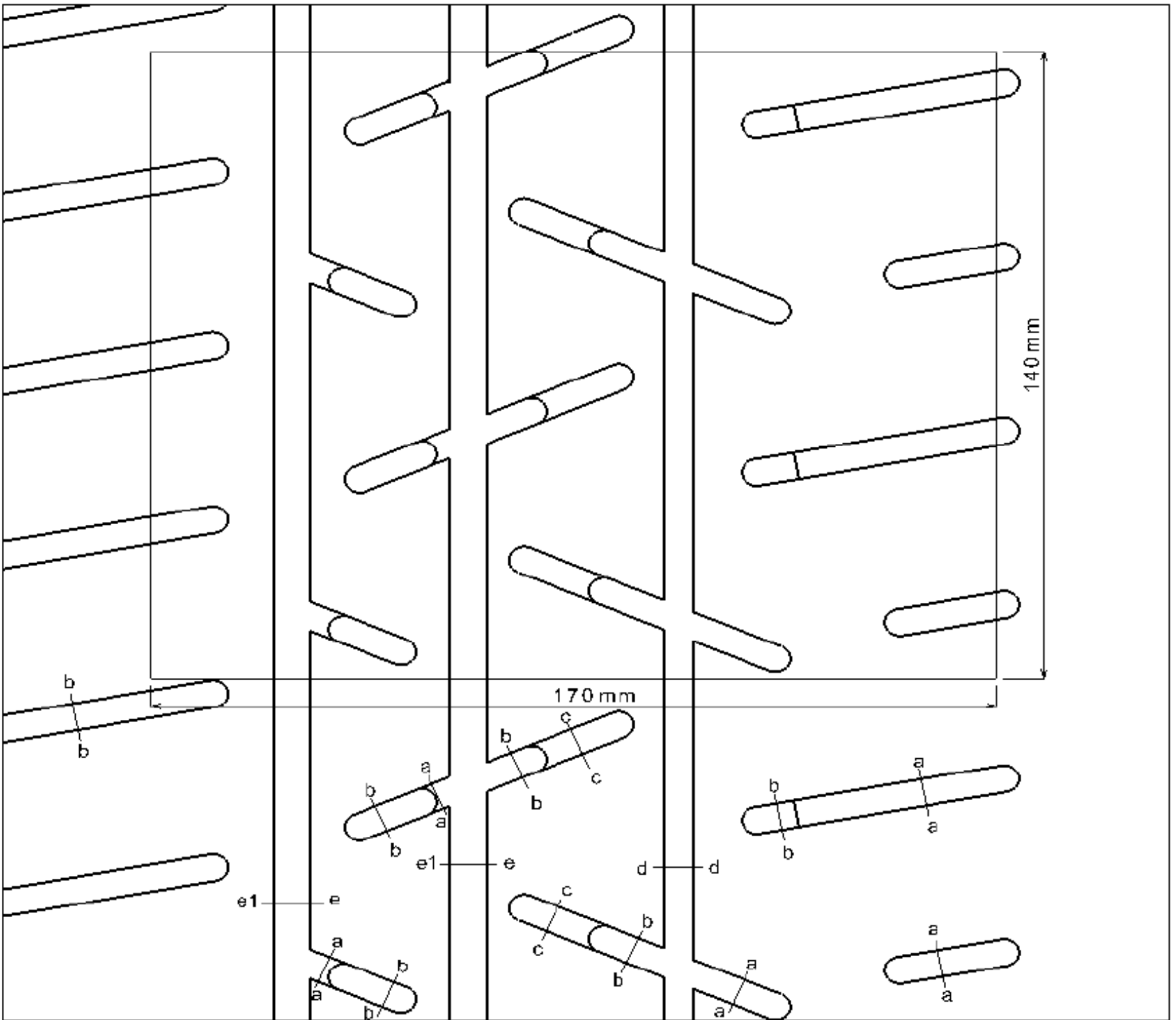
PRODUCT NAME
YOKOHAMA ADVAN A051T

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%

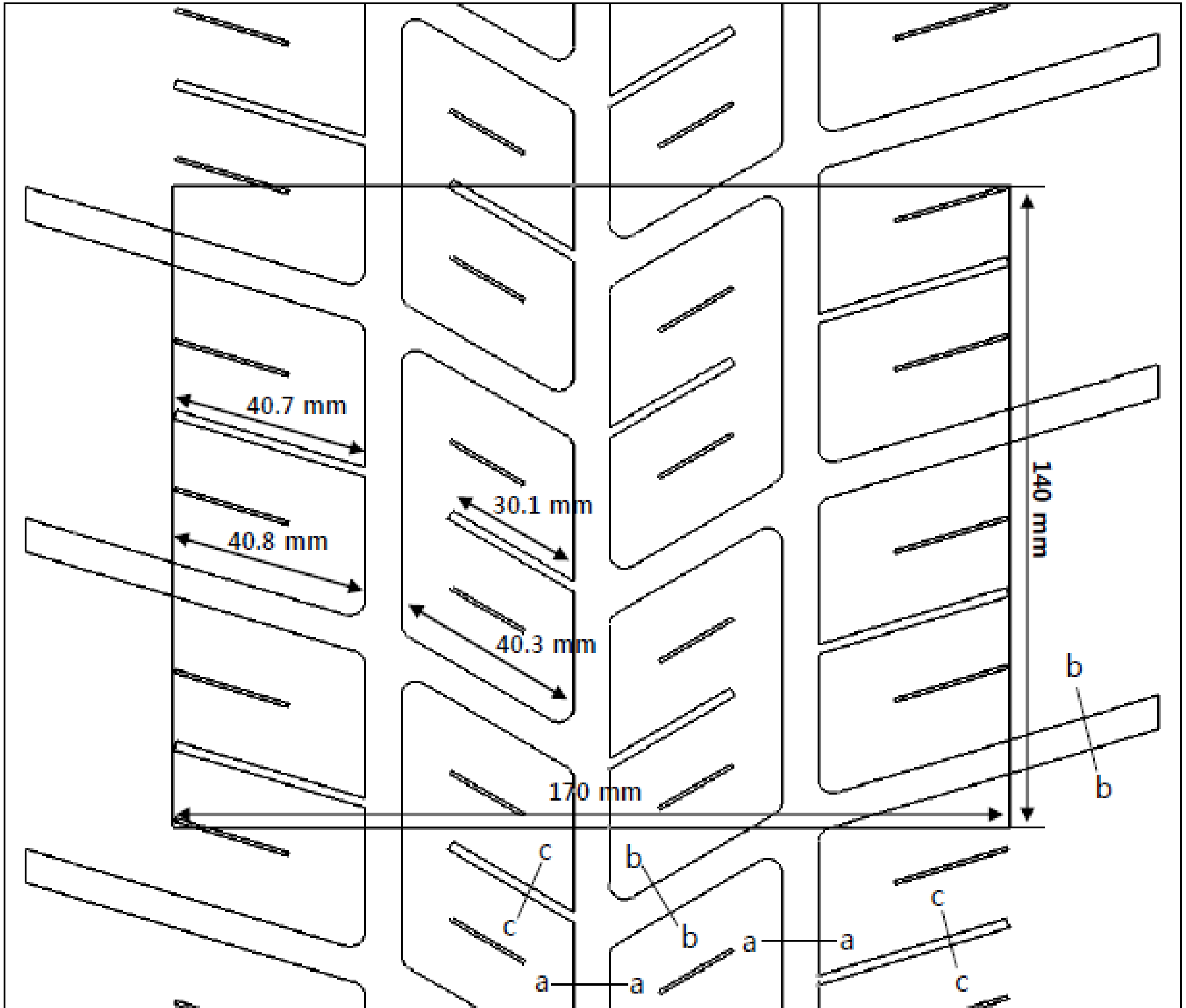
Empty Depth > 1.8mm : 23.30%

GROOVE SURFACE AREA = 554540 mm²

Control Surface = 23800 mm²

18" - 210/650R18

Product : Ventus Z210



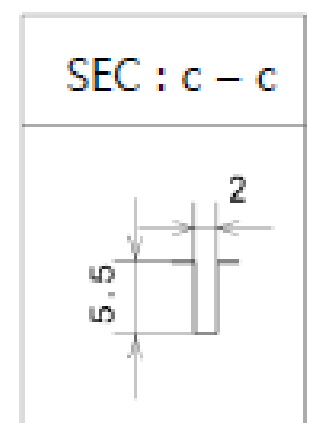
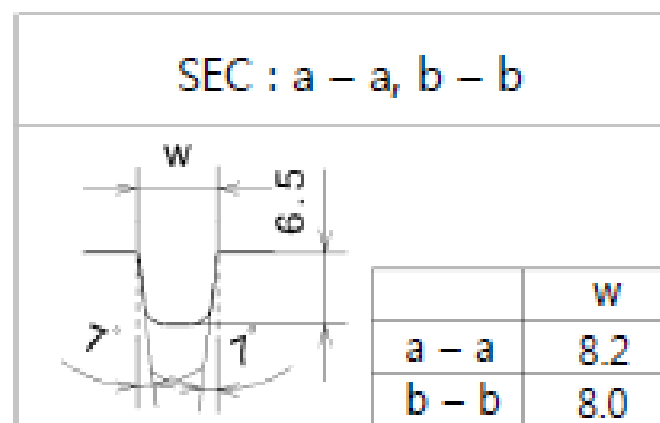
Class 9" (Rim 8")

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

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

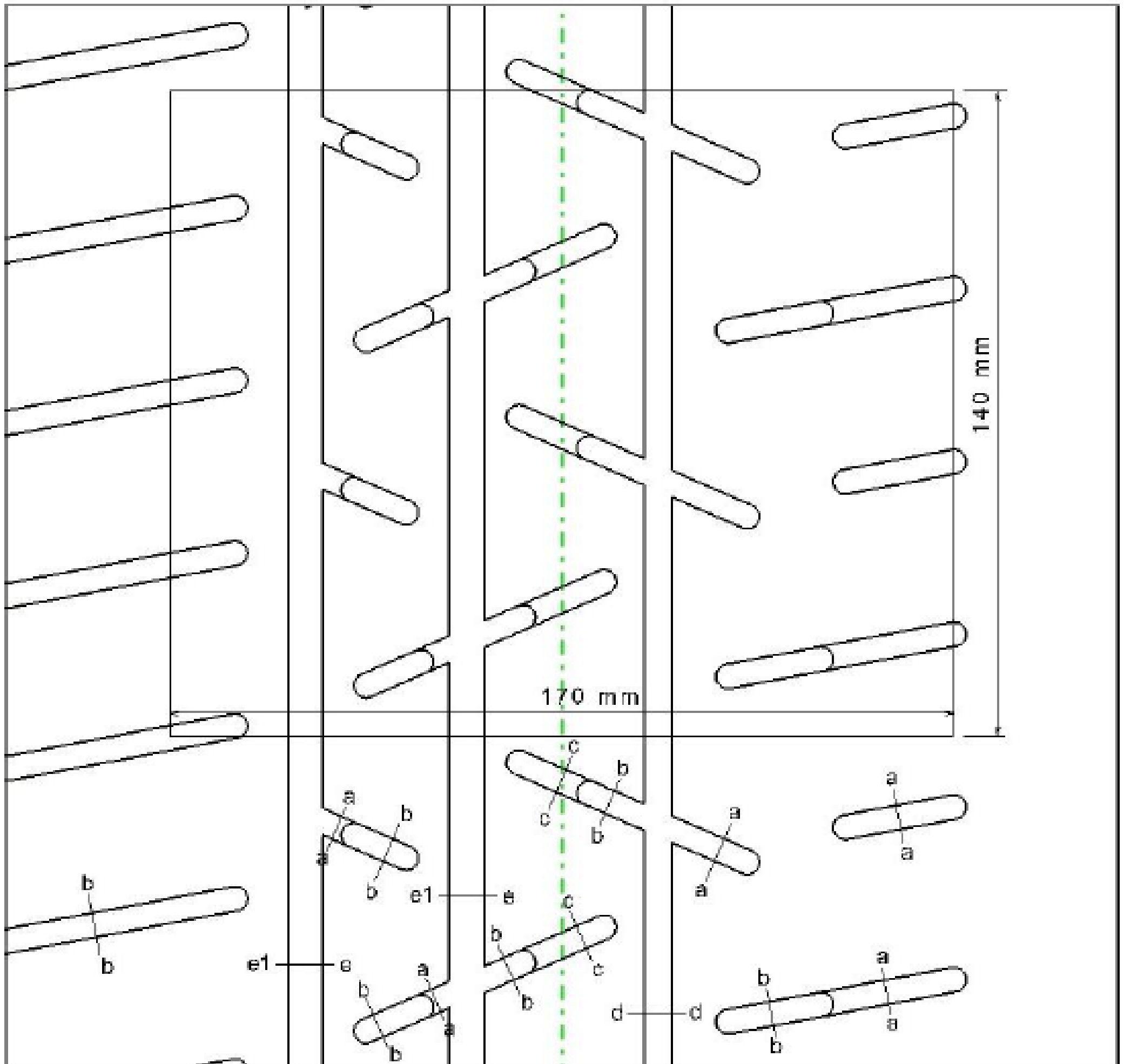
Empty Depth > 5.5mm : 27.5%

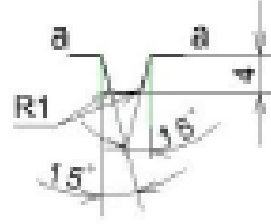
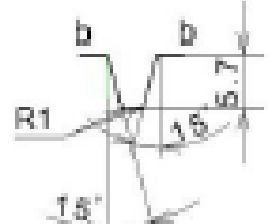
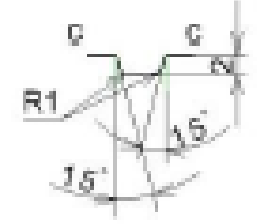
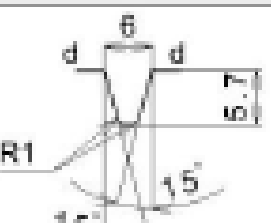
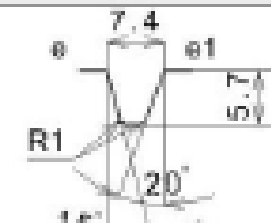
Control Surface = 23800 mm²



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")

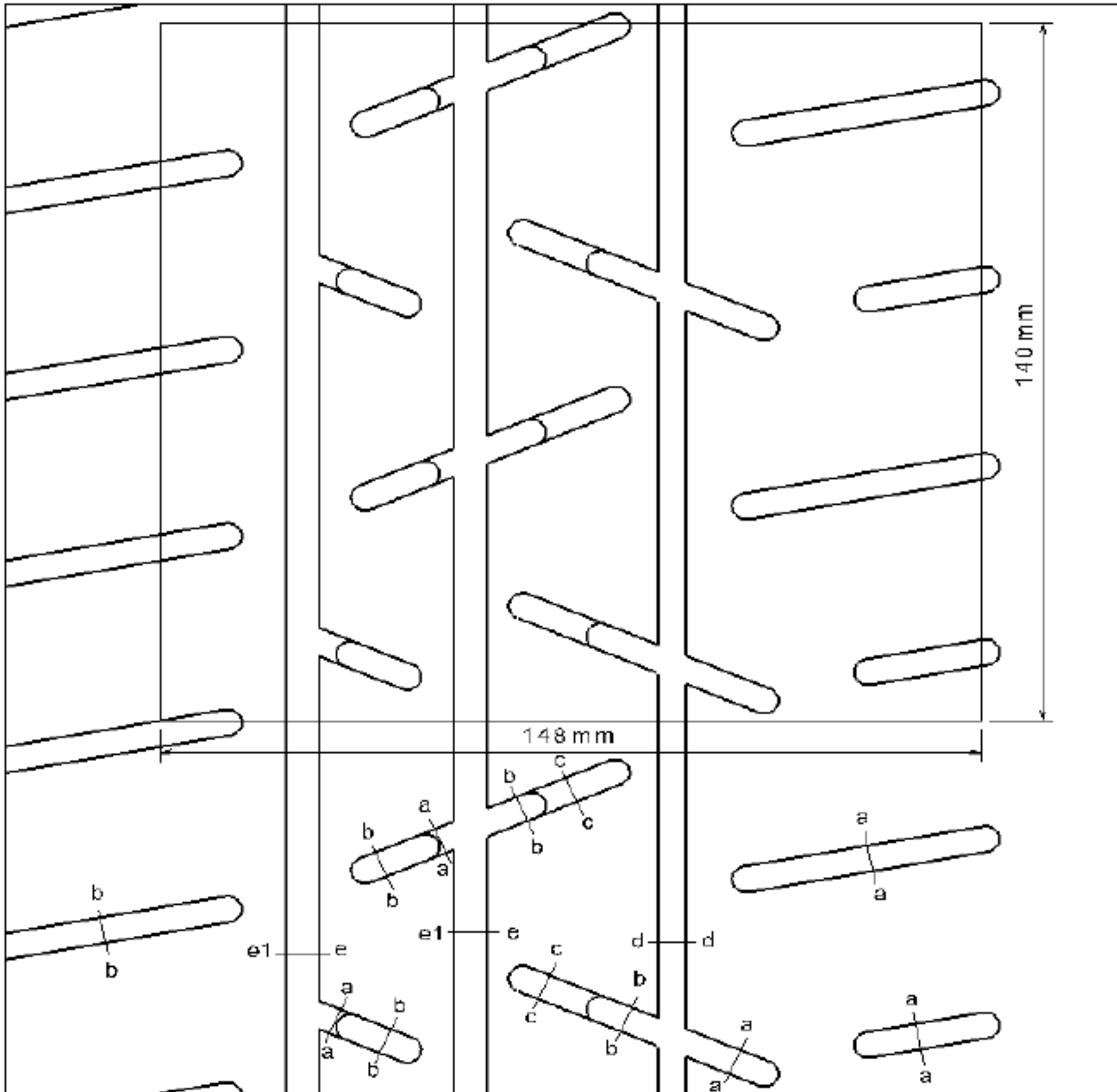
Empty Depth > 5.5mm : 17.05%

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%

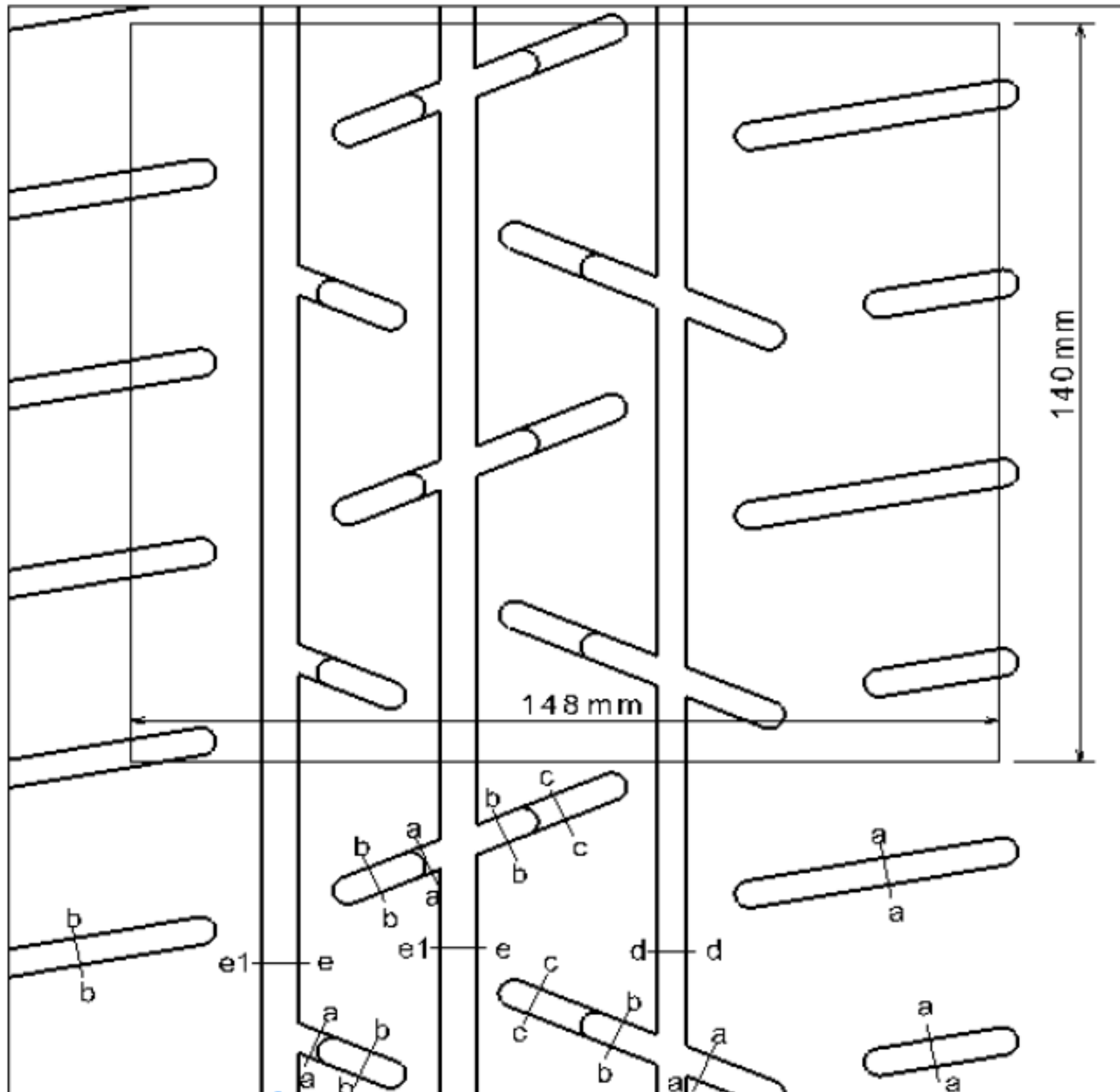
8

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%

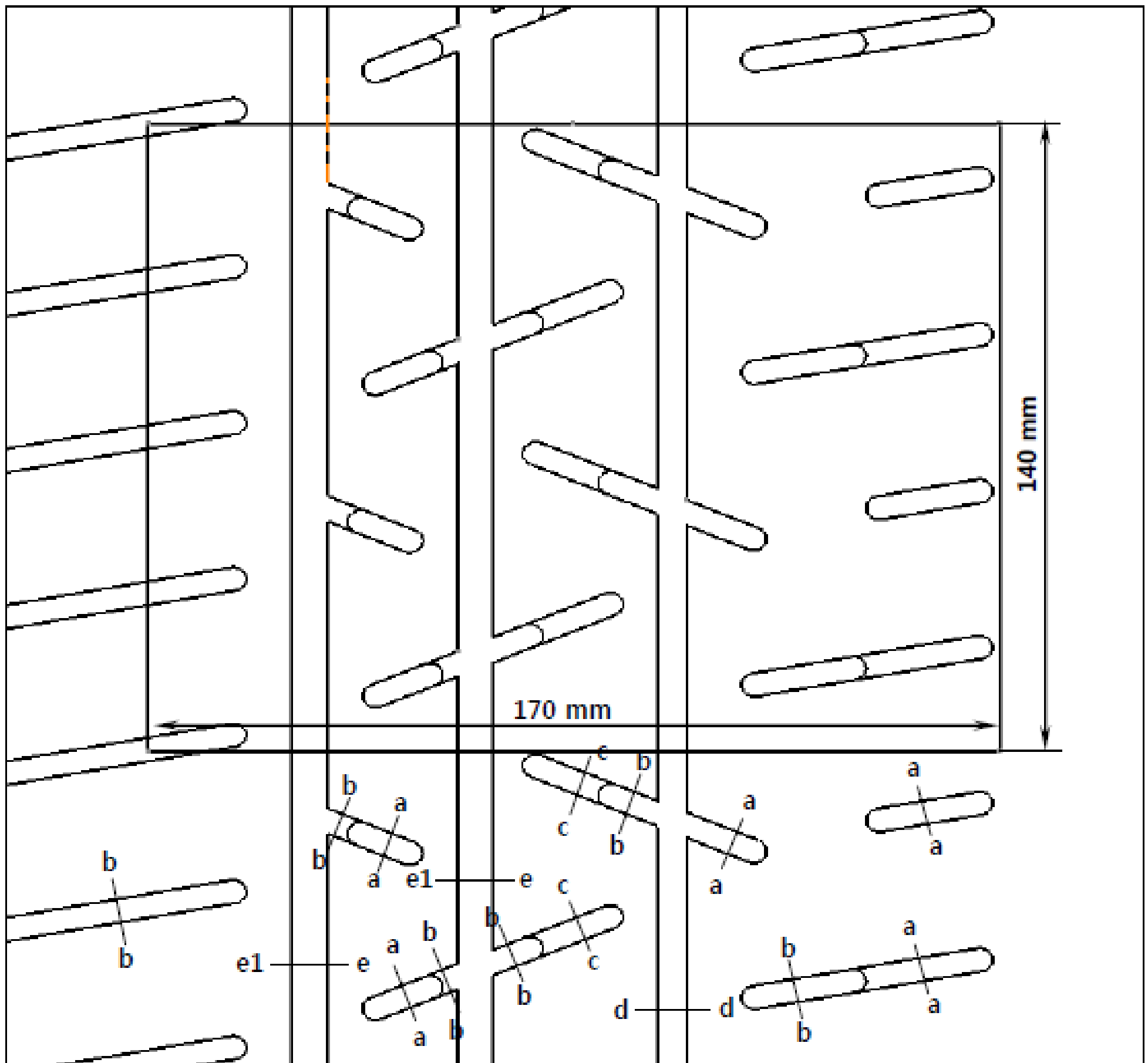
Empty Depth > 1.8mm : 22.95%

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



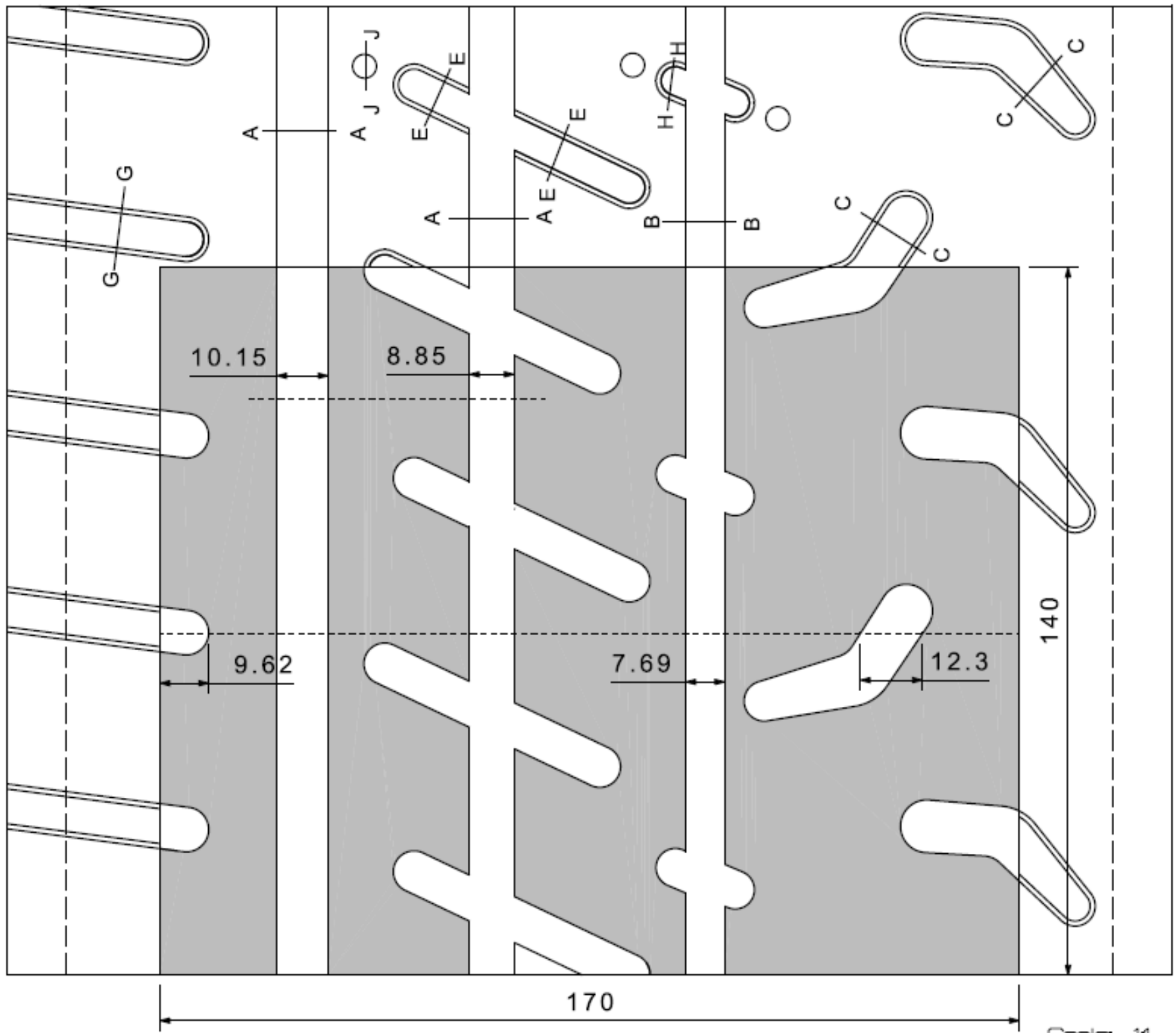
KUMHO TYRES

18" - 210/645R18

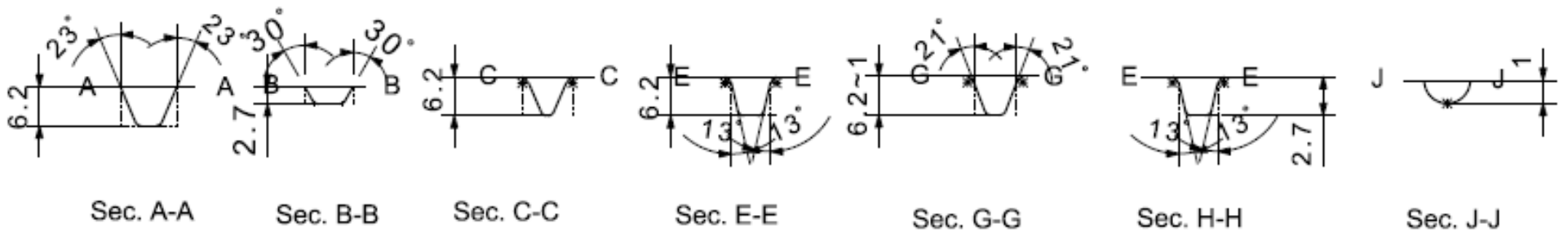
Moulded tyre for FIA homologation
Size : 210/645R18
Pattern : TM01

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

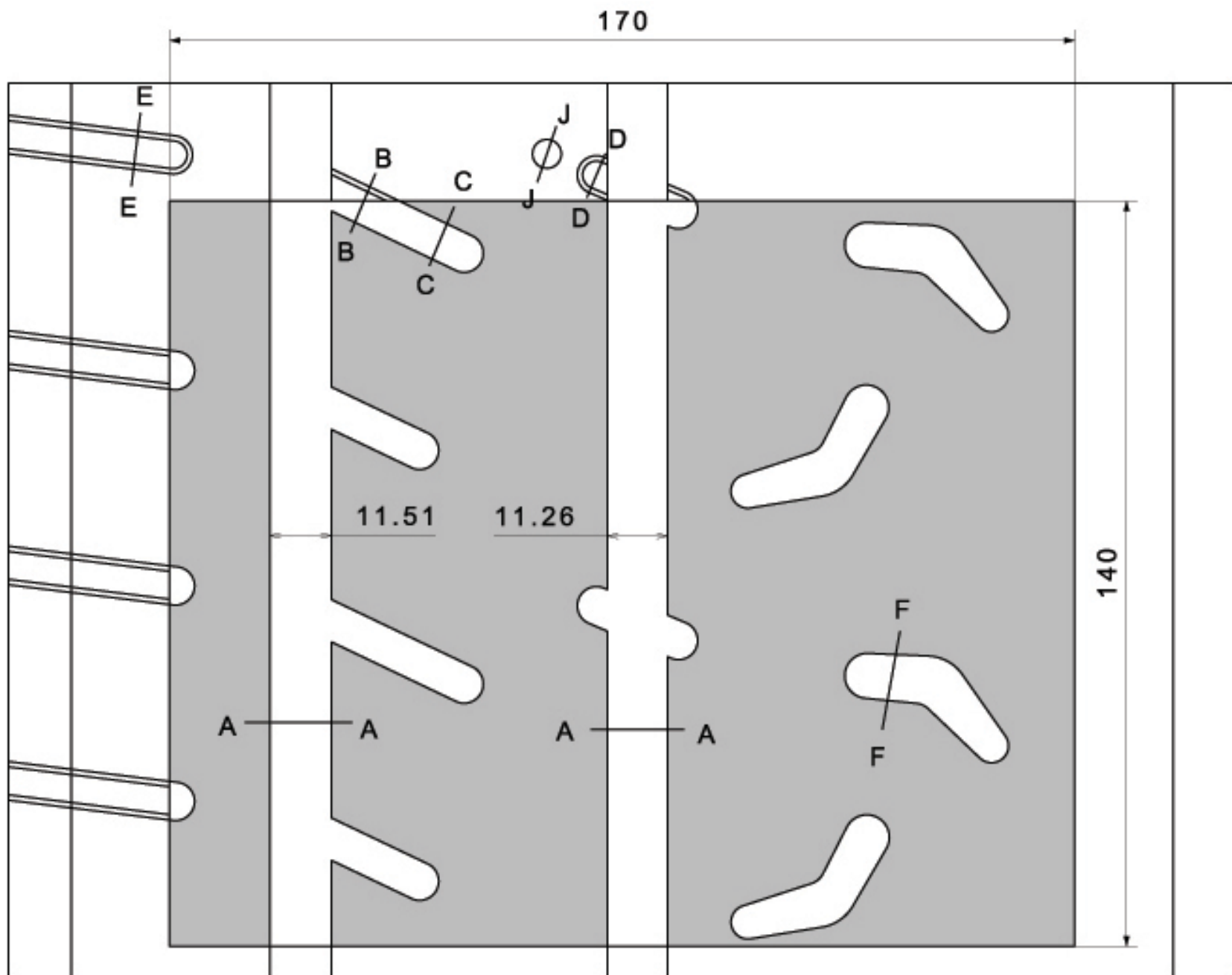
KUMHO TIRE

Moulded tyre for FIA homologation

Size : 210/645R18

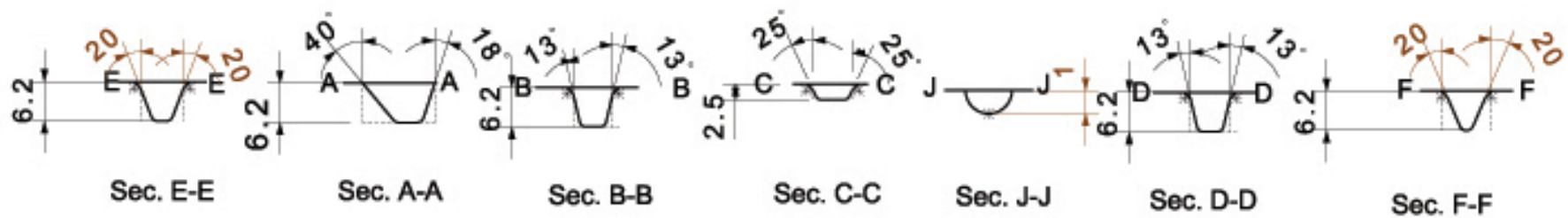
Pattern : TM02

- 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%





KUMHO TYRES

18" - 210/645R18

KUMHO TIRE

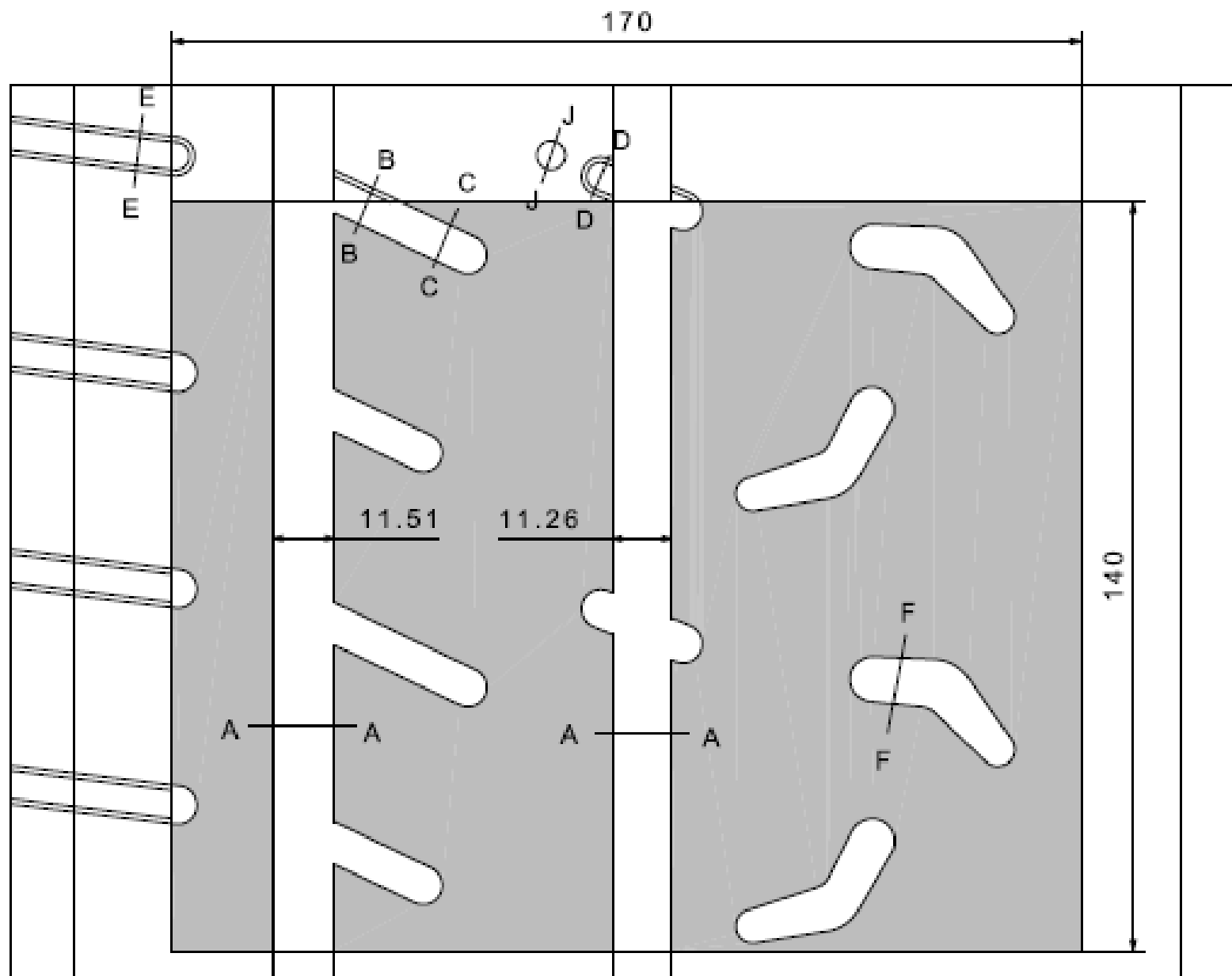
Moulded tyre for FIA homologation

Size : 210/645R18

Pattern : TM02

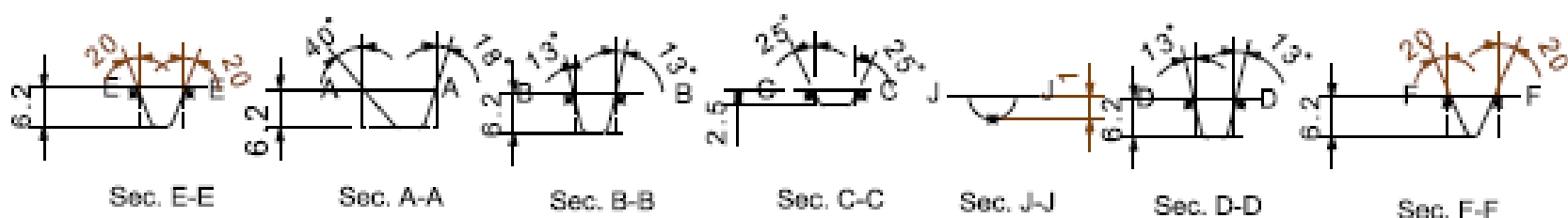
On the basis of a tread pattern width of 170mm and circumference of 140mm

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



Scale 1:1

Groove Area by 170 x 140 at least 1.8mm deep : 5159mm²
 Void % : 21.7%
 Groove Area by 170 x 140 at least 5.5mm deep : 4446mm²
 Void % : 18.7%



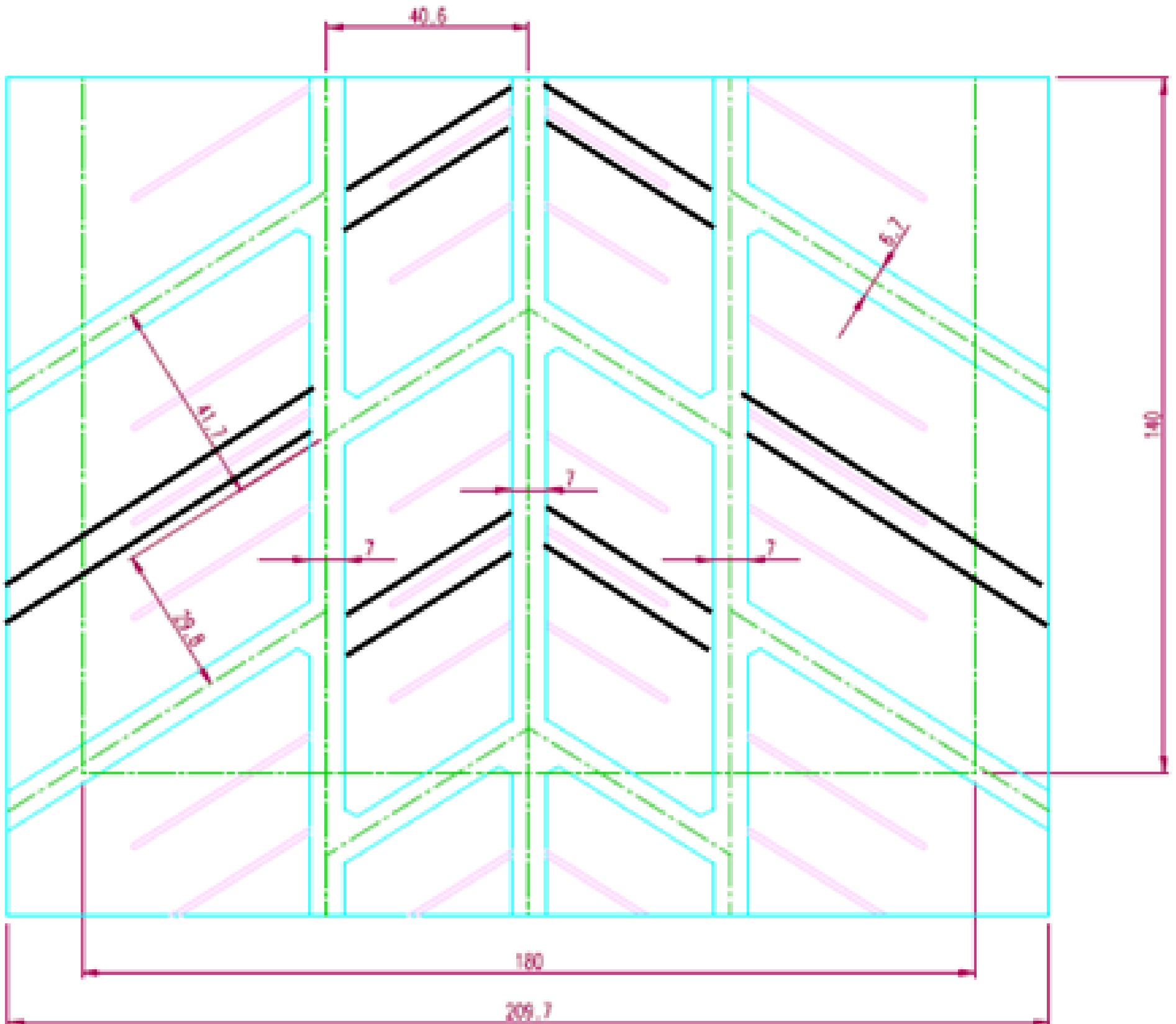


KUMHO TYRES

18" - 210/645R18

Valid until 31.12.2018

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





KUMHO TYRES

17" - 190/630R17

KUMHO TIRE

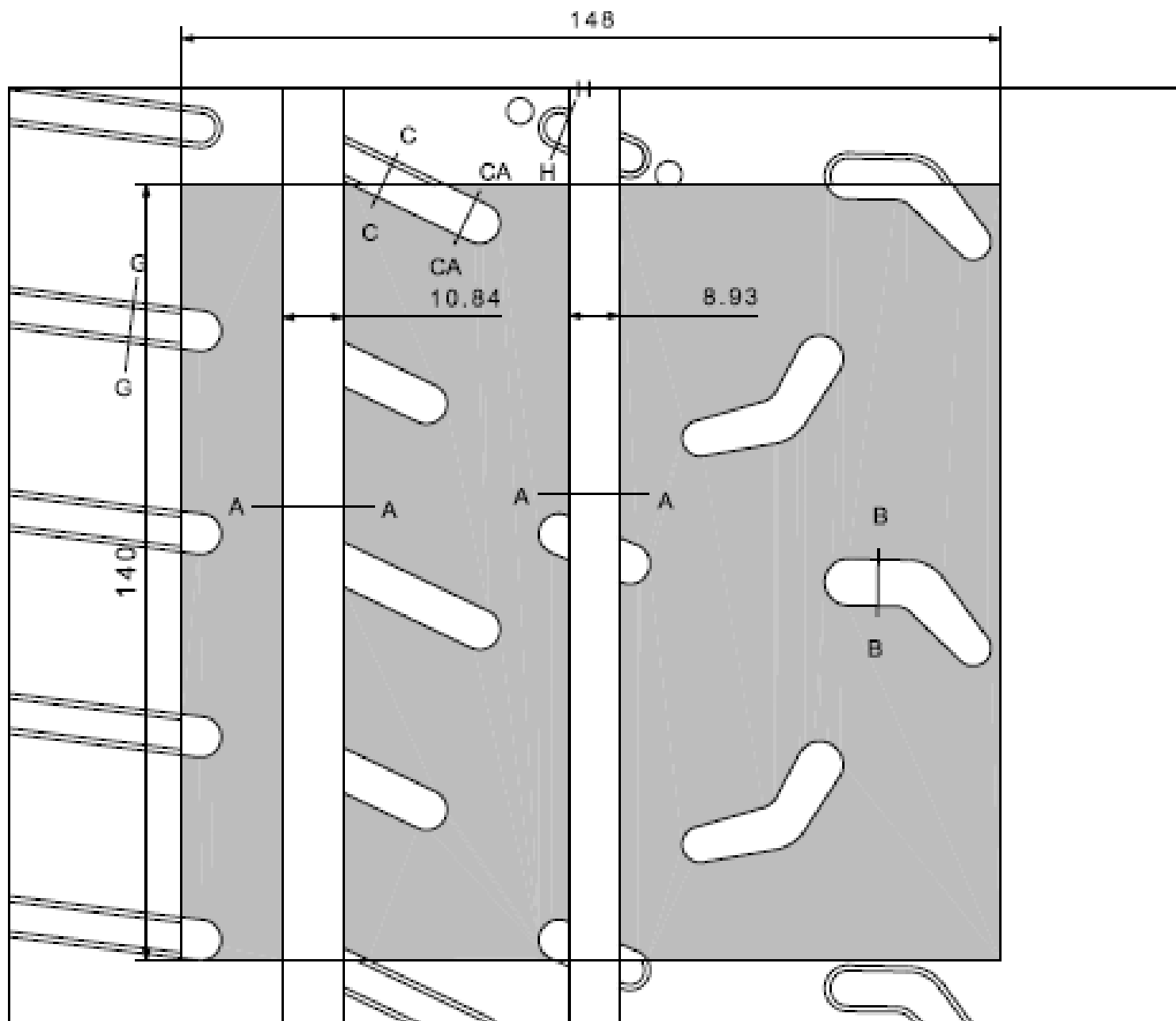
Moulded tyre for FIA homologation

Size : 190/630 R17

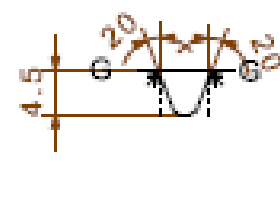
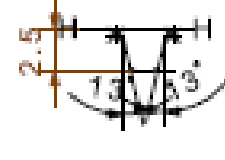
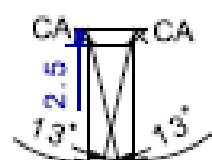
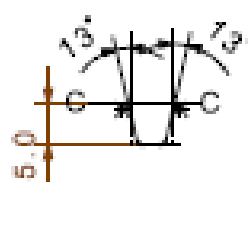
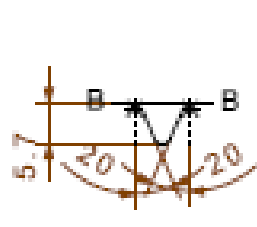
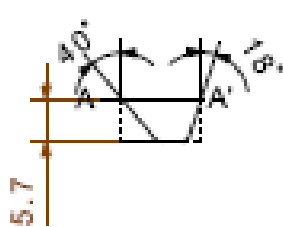
Pattern : TM02

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

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



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



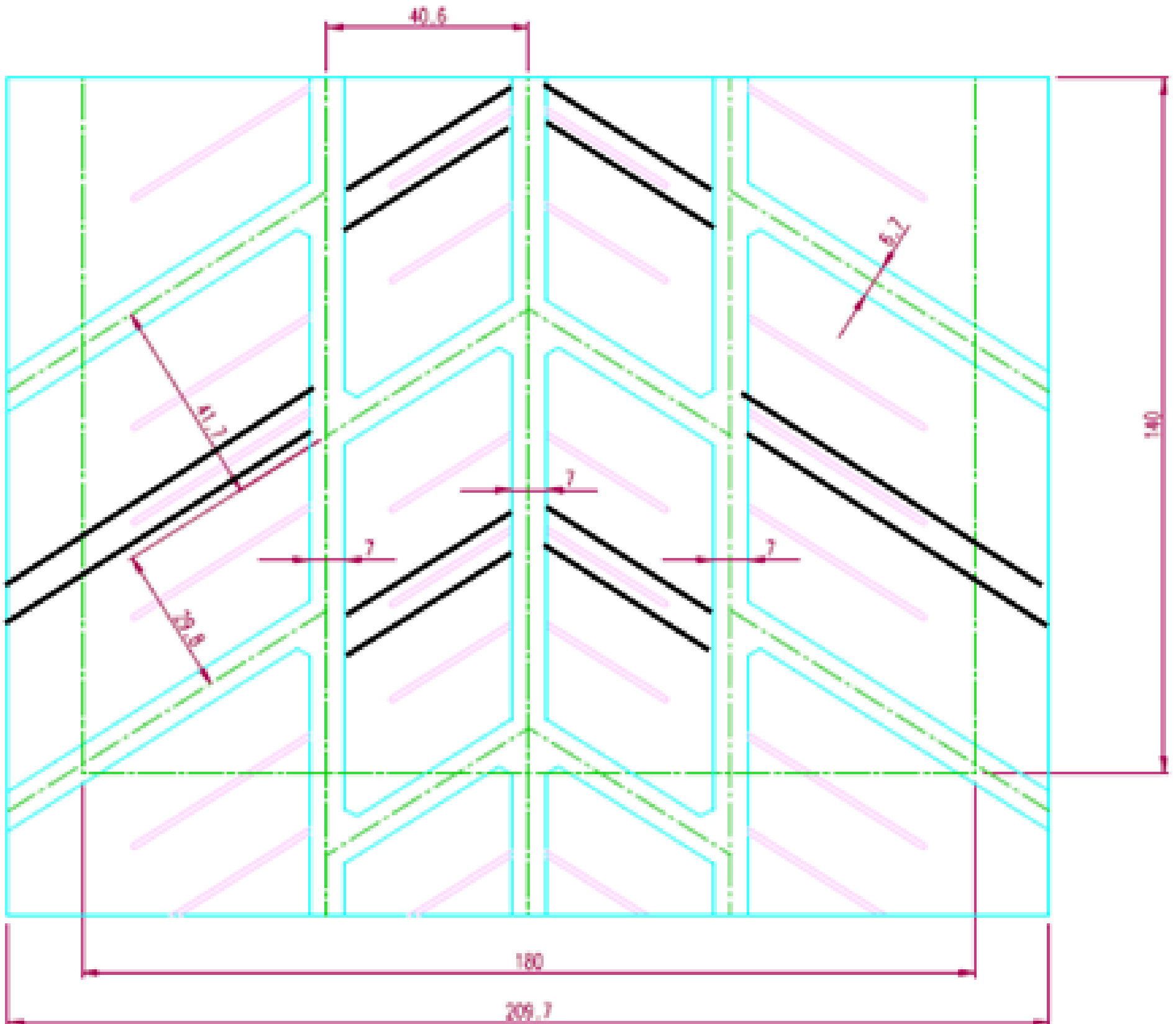


KUMHO TYRES

17" - 210/645R17

Valid until 31.12.2018

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





KUMHO TYRES

16" - 190/600R16

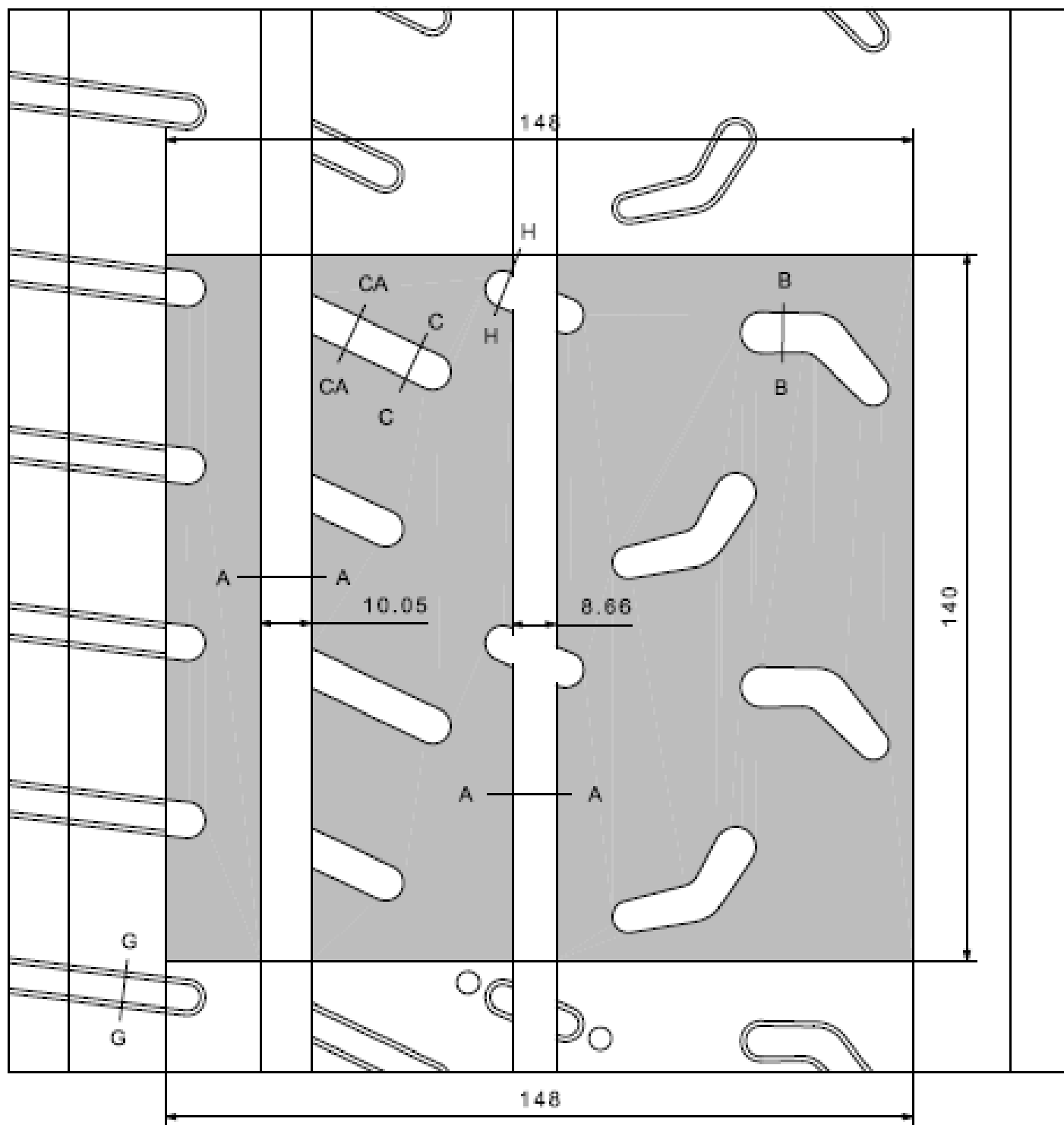
KUMHO TIRE

Moulded tyre for FIA homologation

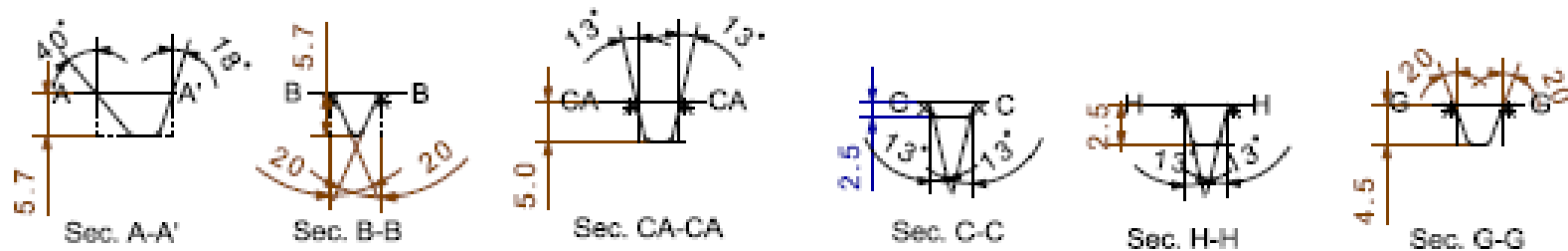
Size : 190/600 R16

Pattern : TM02

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



Groove Area by 148 x 140 at least 1.8mm deep : 4579.1mm²
 Void % : 22.1%
 Groove Area by 148 x 140 at least 5.5mm deep : 3584.5mm²
 Void % : 17.3%





KUMHO TYRES

15" - 180/580R15

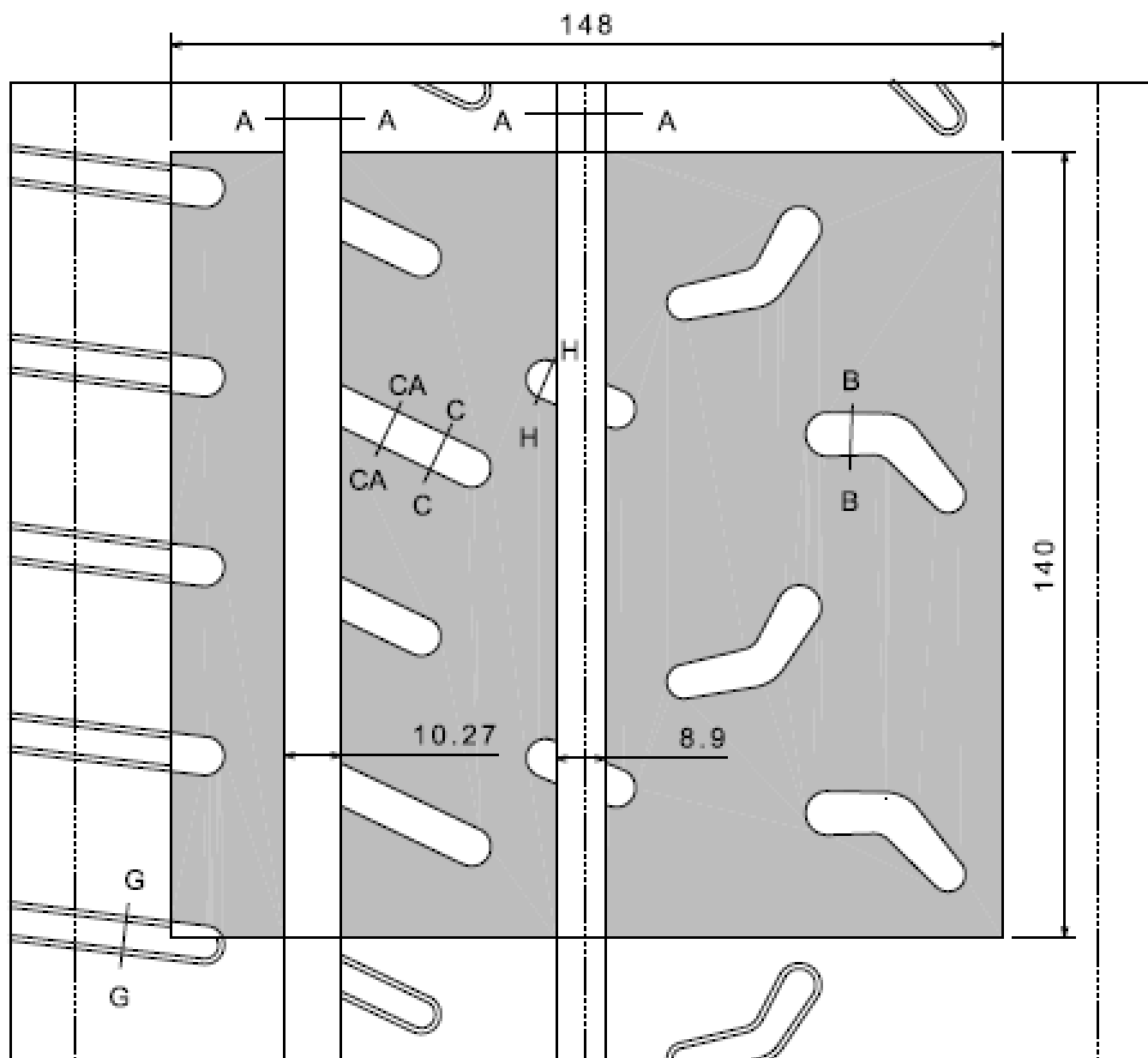
KUMHO TIRE

Moulded tyre for FIA homologation

Size : 180/580 R15

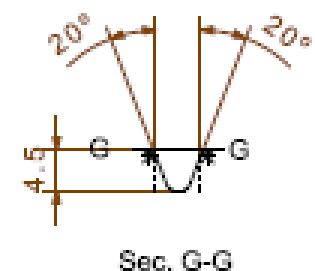
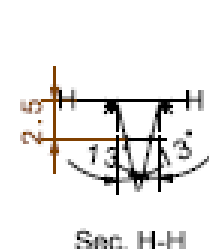
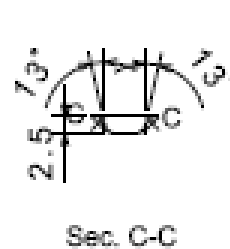
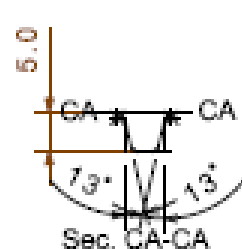
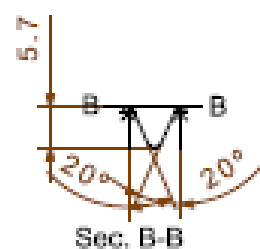
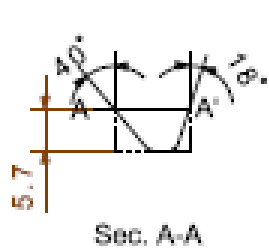
Pattern : TM02

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

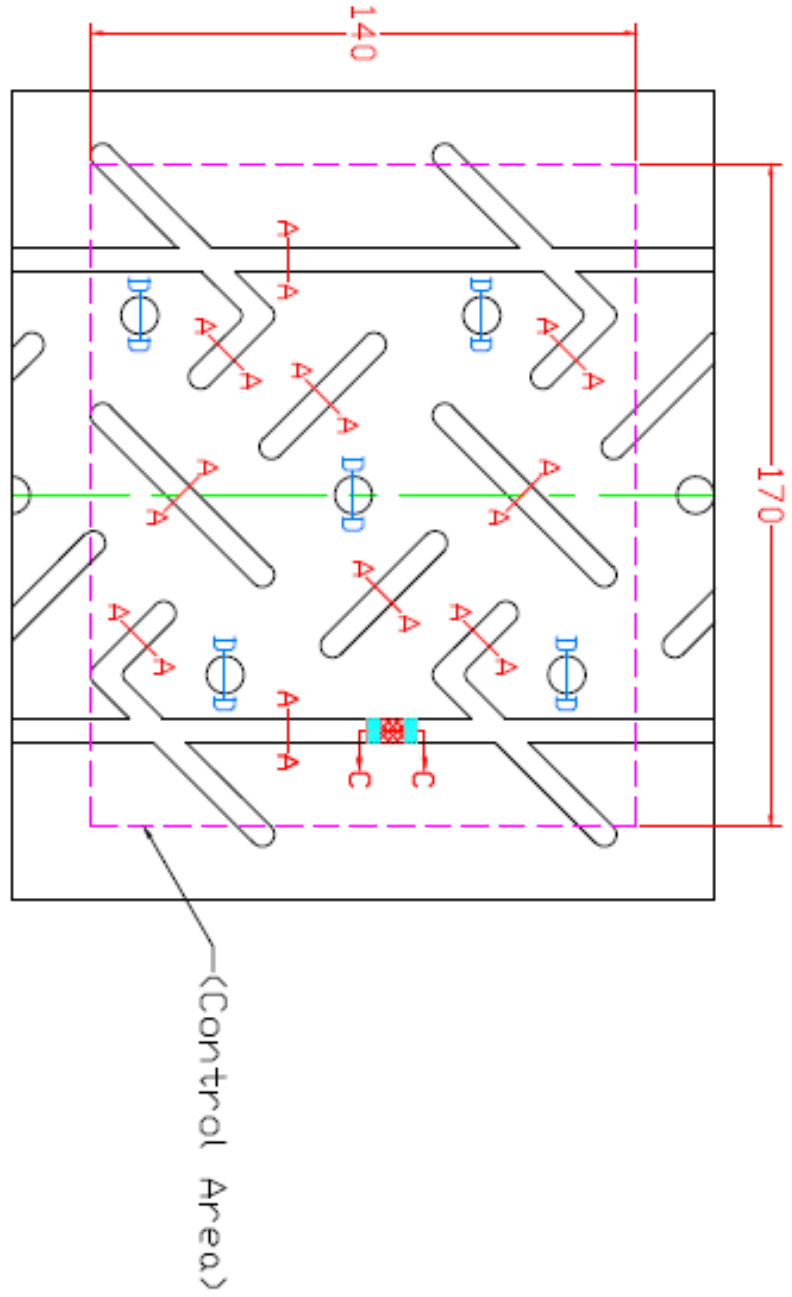


Scale 1:1

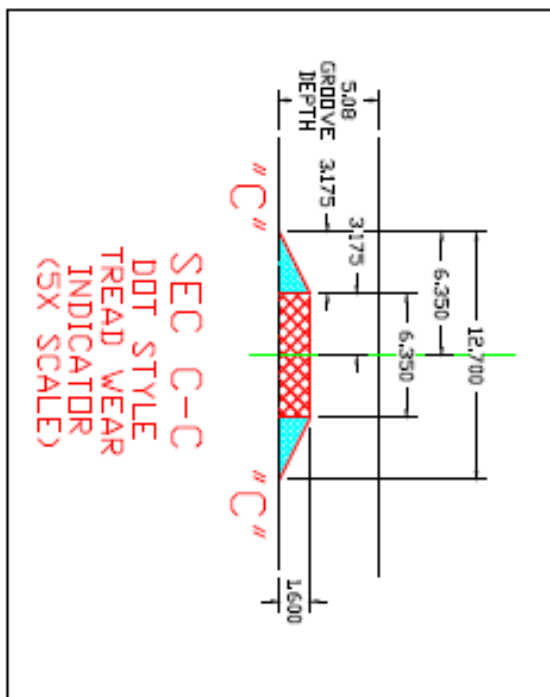
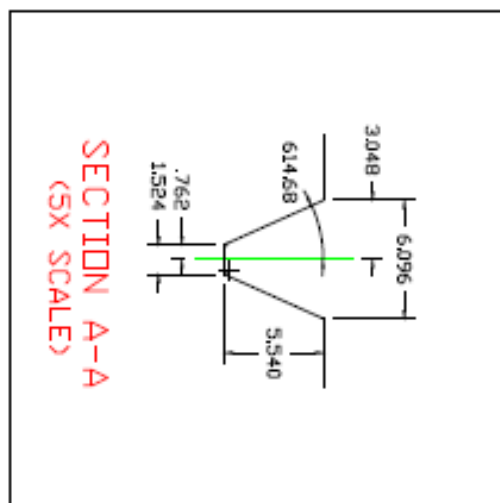
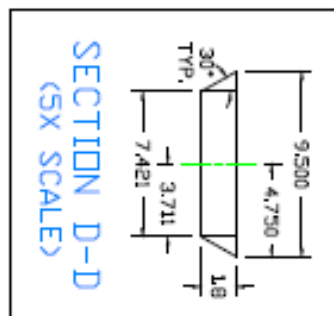
Groove Area by 148 x 140 at least 1.8mm deep : 4599.8mm²
 Void % : 22.2%
 Groove Area by 148 x 140 at least 5.5mm deep : 3563.8mm²
 Void % : 17.2%



<UNITS = METRIC>



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



REV 1 -

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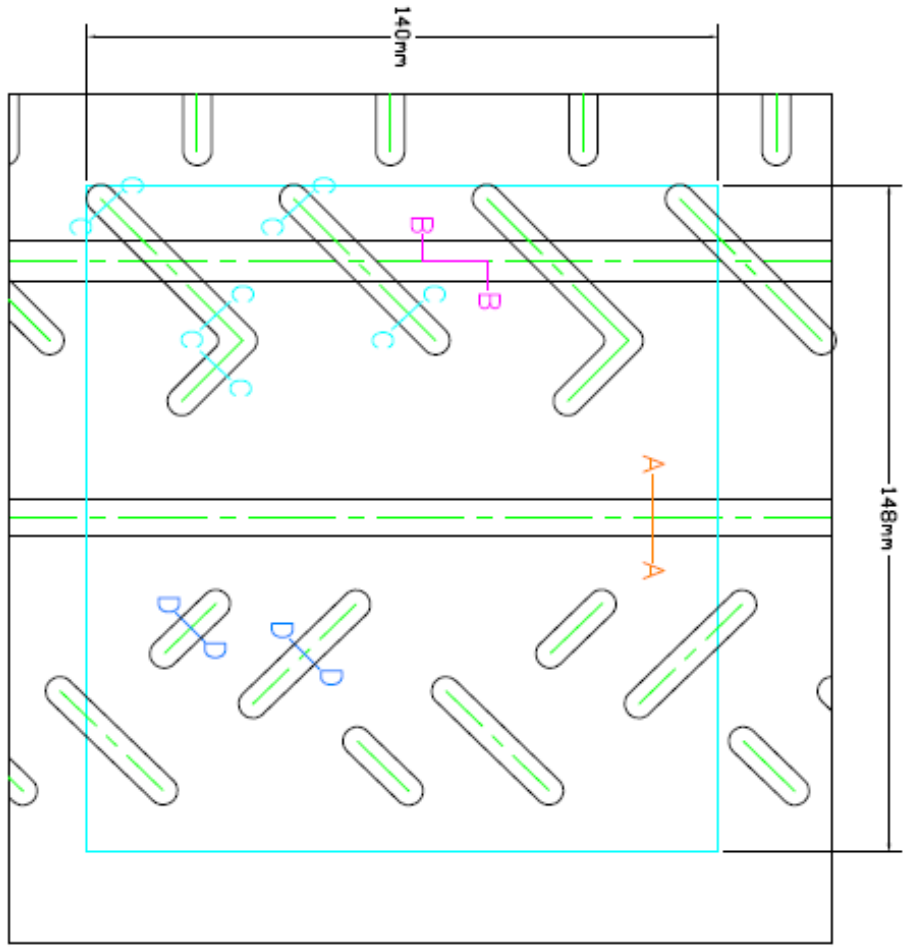
Hoosier RACING TIRE CORP.
LAKEVILLE, INDIANA

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

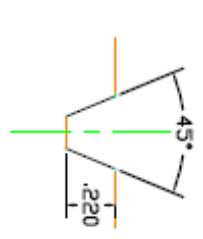
S/N 4770

DRAWN BY	TDC	APPROVED BY	XXX	CHECKED BY	XXX
DATE	03/06/2015	DATE	XX/XX/XXXX	DATE	XX/XX/XXXX
SCALE	1:1	SCALE	1:1	SCALE	1:1

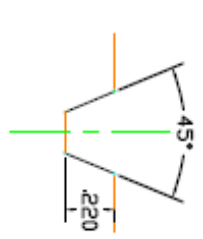
SHEET 2 OF 2



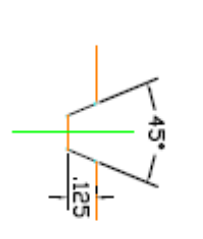
CONTROL SURFACE = $20,720\text{mm}^2$
 GROOVES $>5.5\text{mm}$ DEEP = 3617.7mm^2 = 17.46%
 GROOVES $>1.8\text{mm}$ DEEP = 4638.2mm^2 = 22.39%



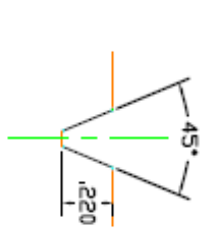
SEC A-A
(2X SCALE)



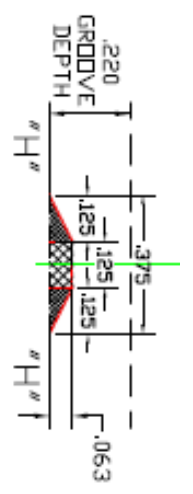
SEC B-B
(2X SCALE)



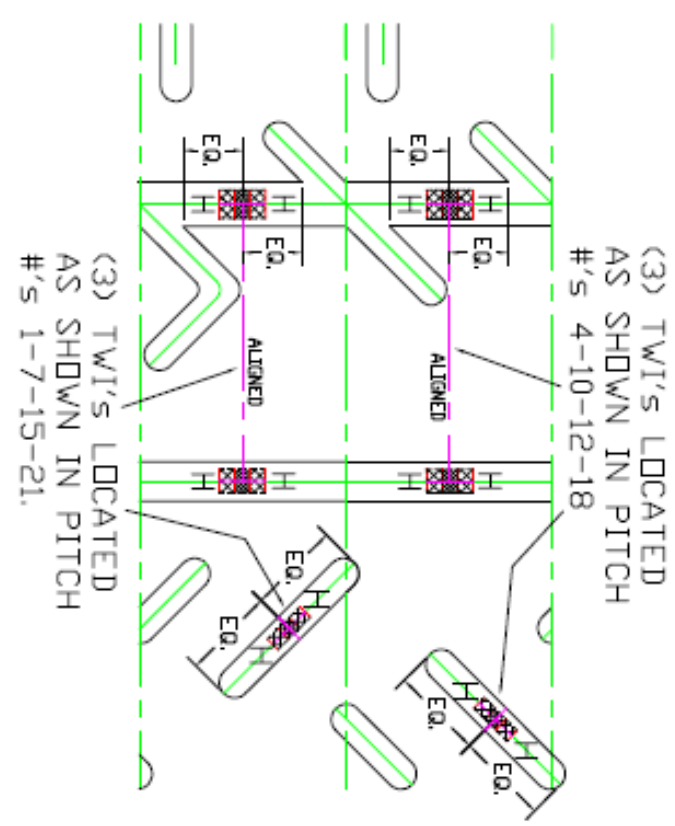
SEC C-C
(2X SCALE)



SEC D-D
(2X SCALE)



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



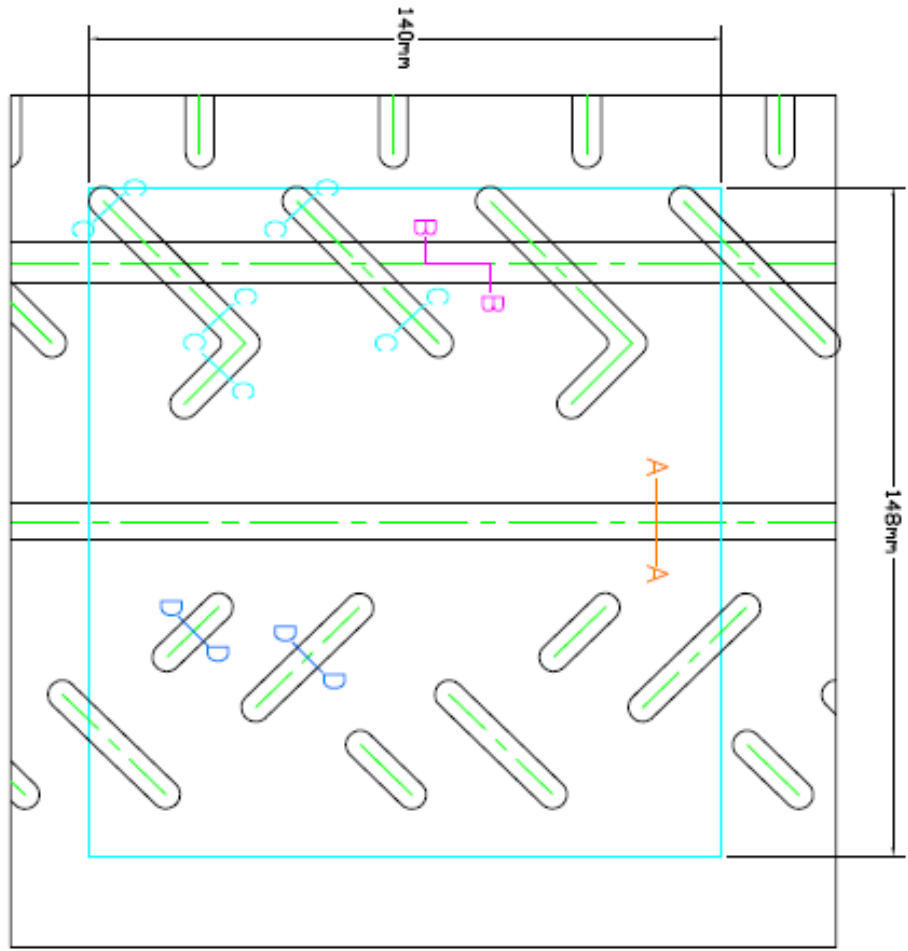
THIS IS A CAD DRAWING. MANUAL CHANGES ARE NOT PERMITTED.

Hoosier RACING TIRE CORP.
LAKEVILLE, INDIANA

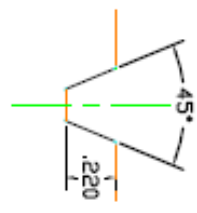
195/50R17 TARMAC RALLY S/N 4927

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

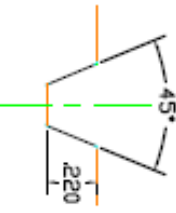
SHEET 1



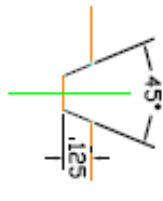
CONTROL SURFACE = 20,720mm²
 GROOVES >5.5mm DEEP = 3617.7mm² = 17.46%
 GROOVES >1.8MM DEEP = 4638.2mm² = 22.39%



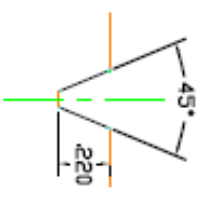
SEC A-A
(2X SCALE)



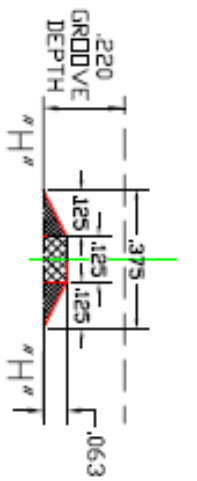
SEC B-B
(2X SCALE)



SEC C-C
(2X SCALE)



SEC D-D
(2X SCALE)

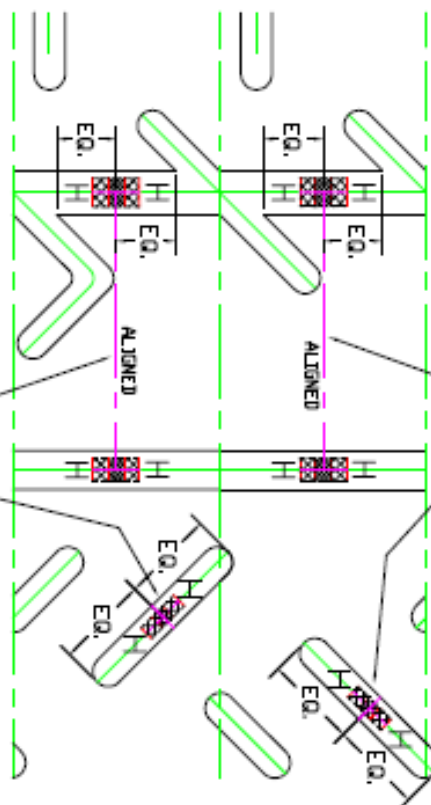


SEC H-H
DOT STYLE
TREAD WEAR
INDICATOR
(3X SCALE)

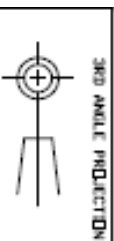
(8) TWI'S PER CIRCUMFL GROOVE
AND TREAD ELEMENTS AS SHOWN.
(24) TOTAL FOR THE MOLD.

(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.



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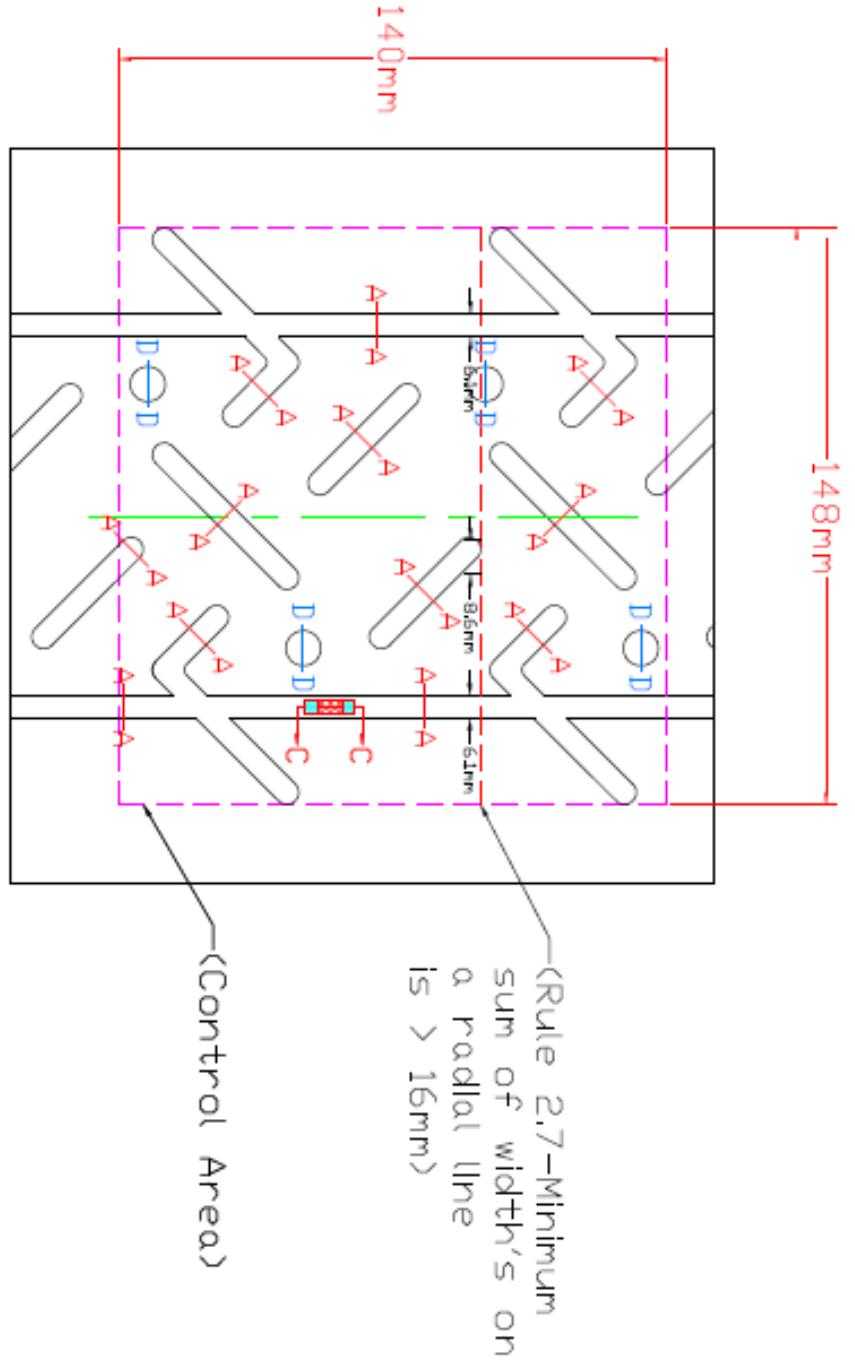
THIS IS A CAD DRAWING. MANUAL CHANGES ARE NOT PERMITTED.

Hoosier RACING TIRE CORP.
LAKEVILLE, INDIANA

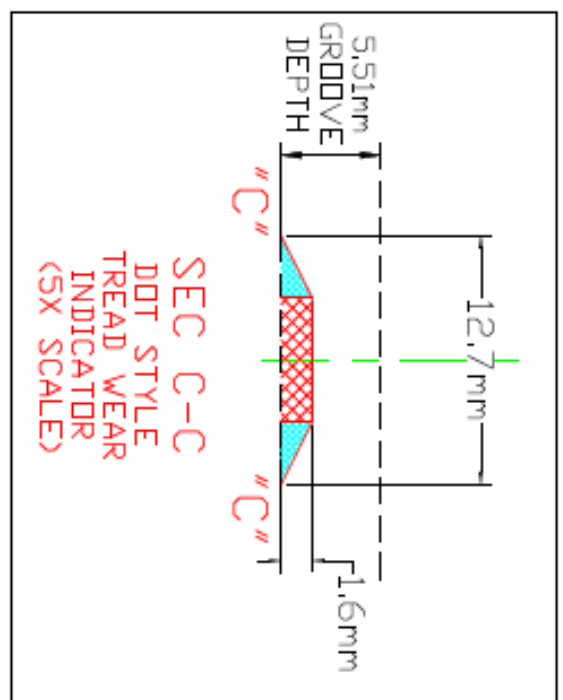
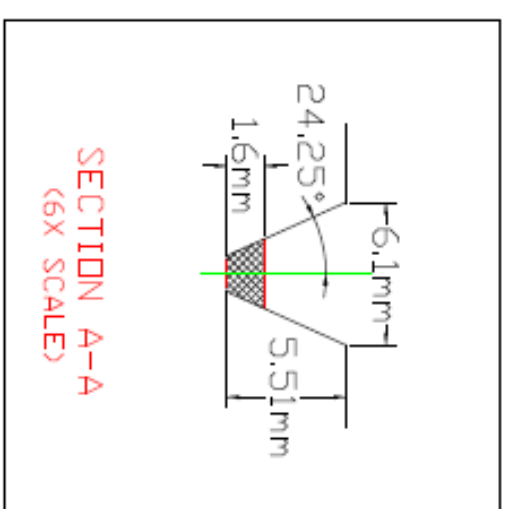
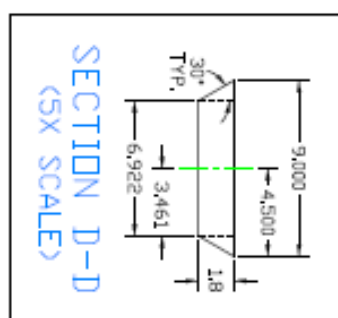
195/50R16 TARMAC RALLY

S/N 4926

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SCALE	1:1	SCALE	1:1	SCALE	1:1
FULL	1:1	FULL	1:1	FULL	1:1
SHEET					1



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



3RD ANGLE PROJECTION



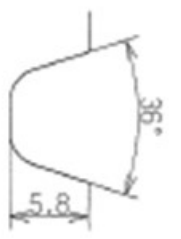
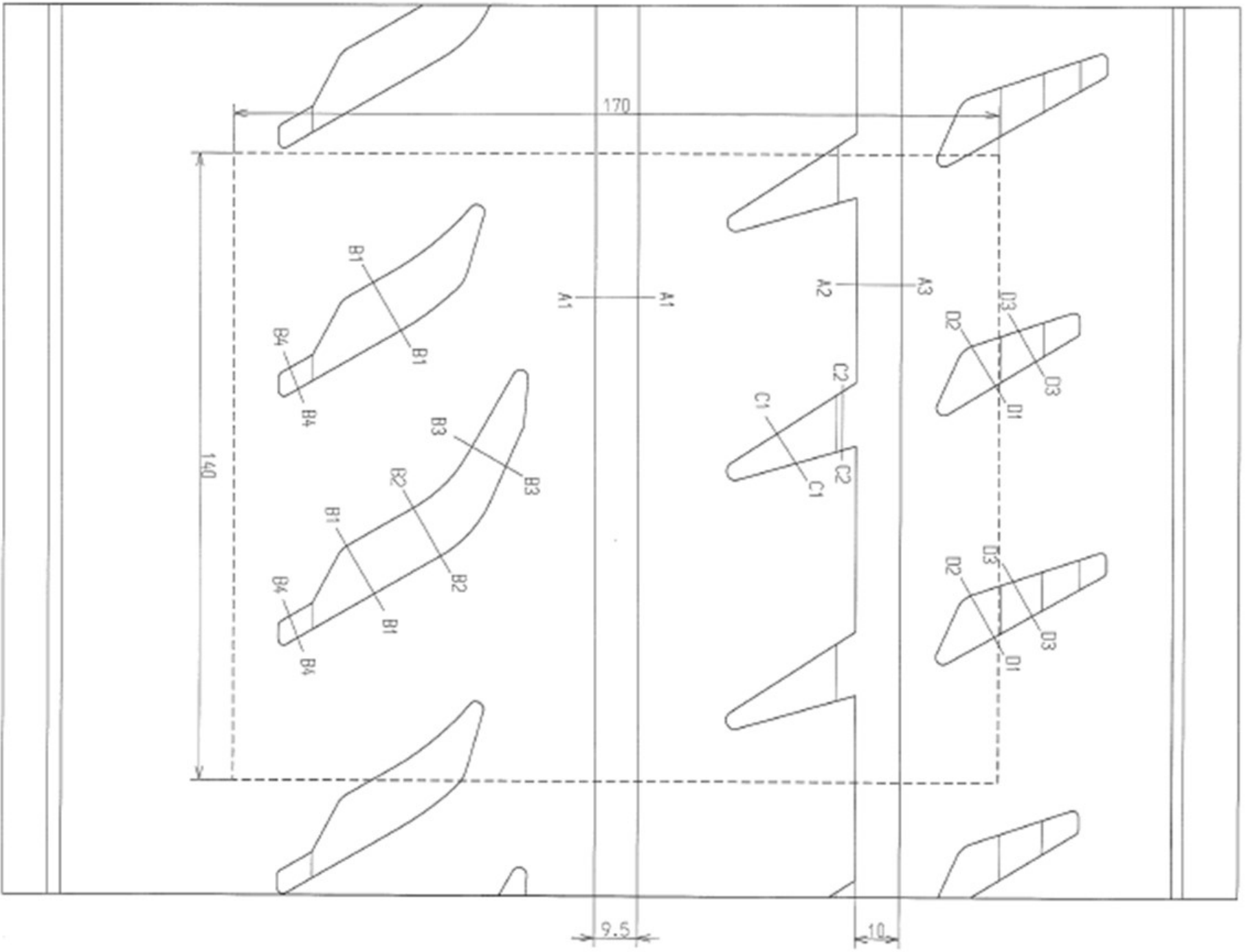
THIS IS A CAD DRAWING. MANUAL CHANGES ARE NOT PERMITTED.

Hoosier RACING TIRE CORP.
LAKEVILLE, INDIANA

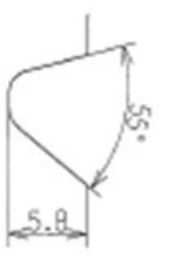
F.I.A. COMPLIANCE FOR '185/580R15'
ROAD RALLY

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

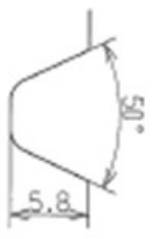
18" - 205/640R18



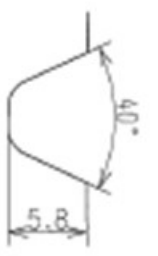
SEC.A1-A1



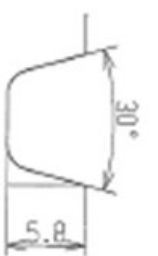
SEC.A2-A3



SEC.B1-B1



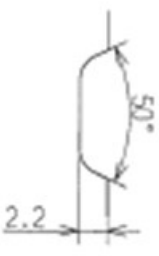
SEC.B2-B2



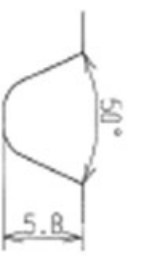
SEC.B3-B3



SEC.B4-B4



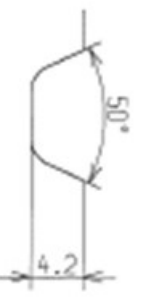
SEC.C1-C1



SEC.C2-C2



SEC.D1-D2



SEC.D3-D3

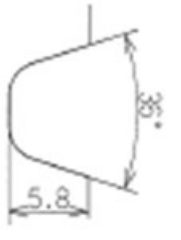
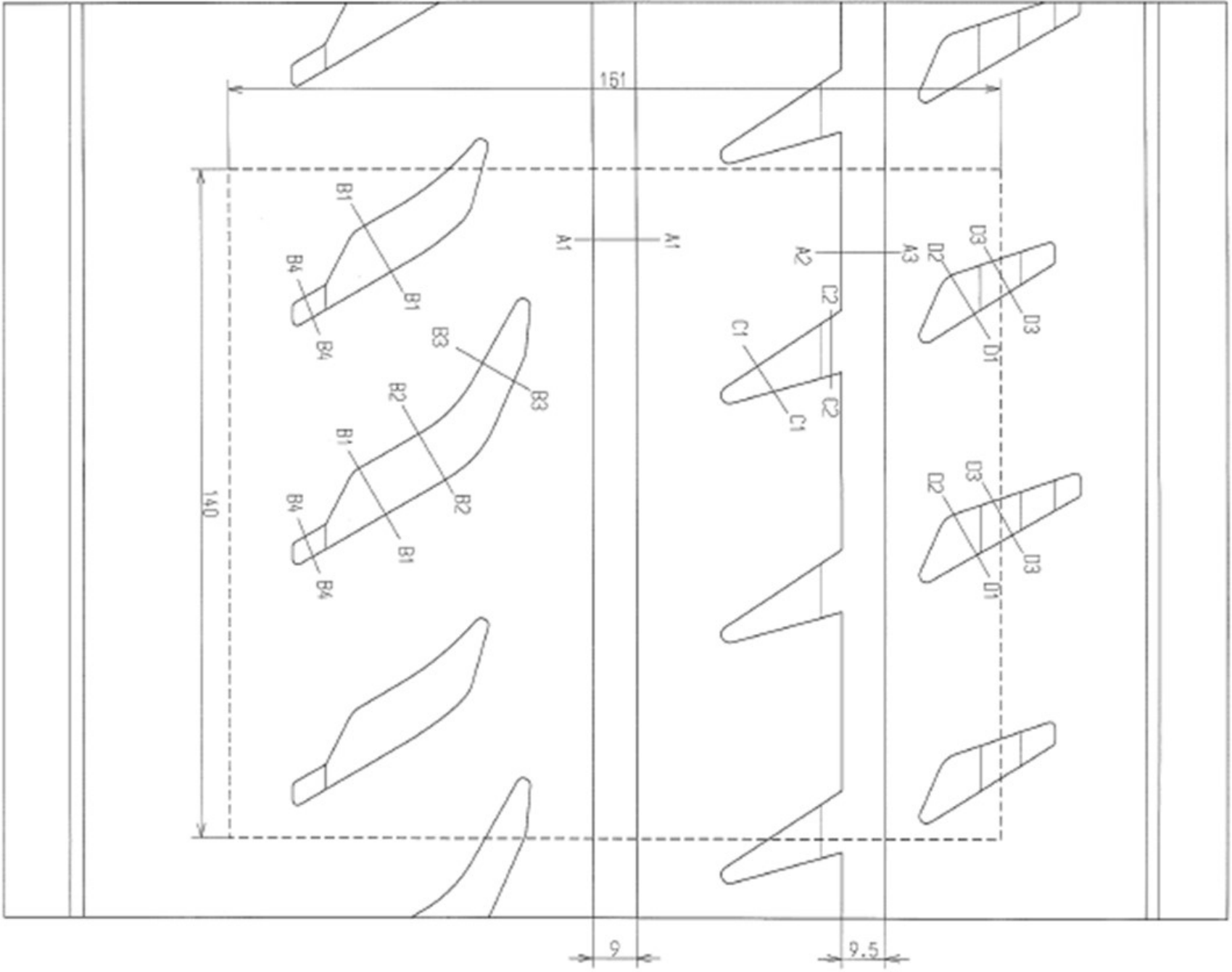
In the control area
5.5mm grooves-18.2%
Total grooves 22.3%

-----Control area(170x140)

PRODUCT NAME
TOYO PROXES 888RT

SIZE 205/640R18

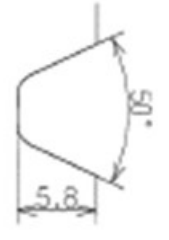
15" - 185/580R15



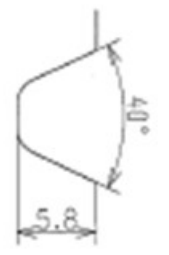
SEC.A1-A1



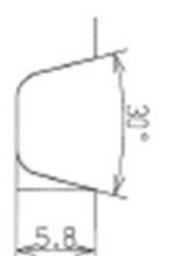
SEC.A2-A3



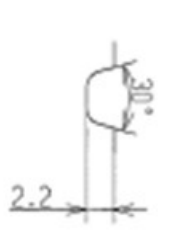
SEC.B1-B1



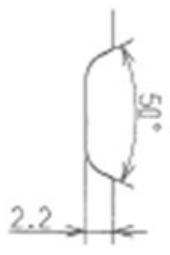
SEC.B2-B2



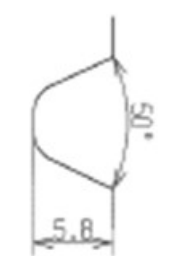
SEC.B3-B3



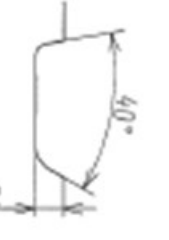
SEC.B4-B4



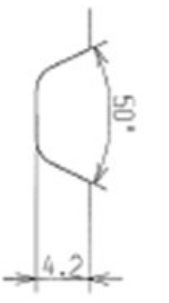
SEC.C1-C1



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

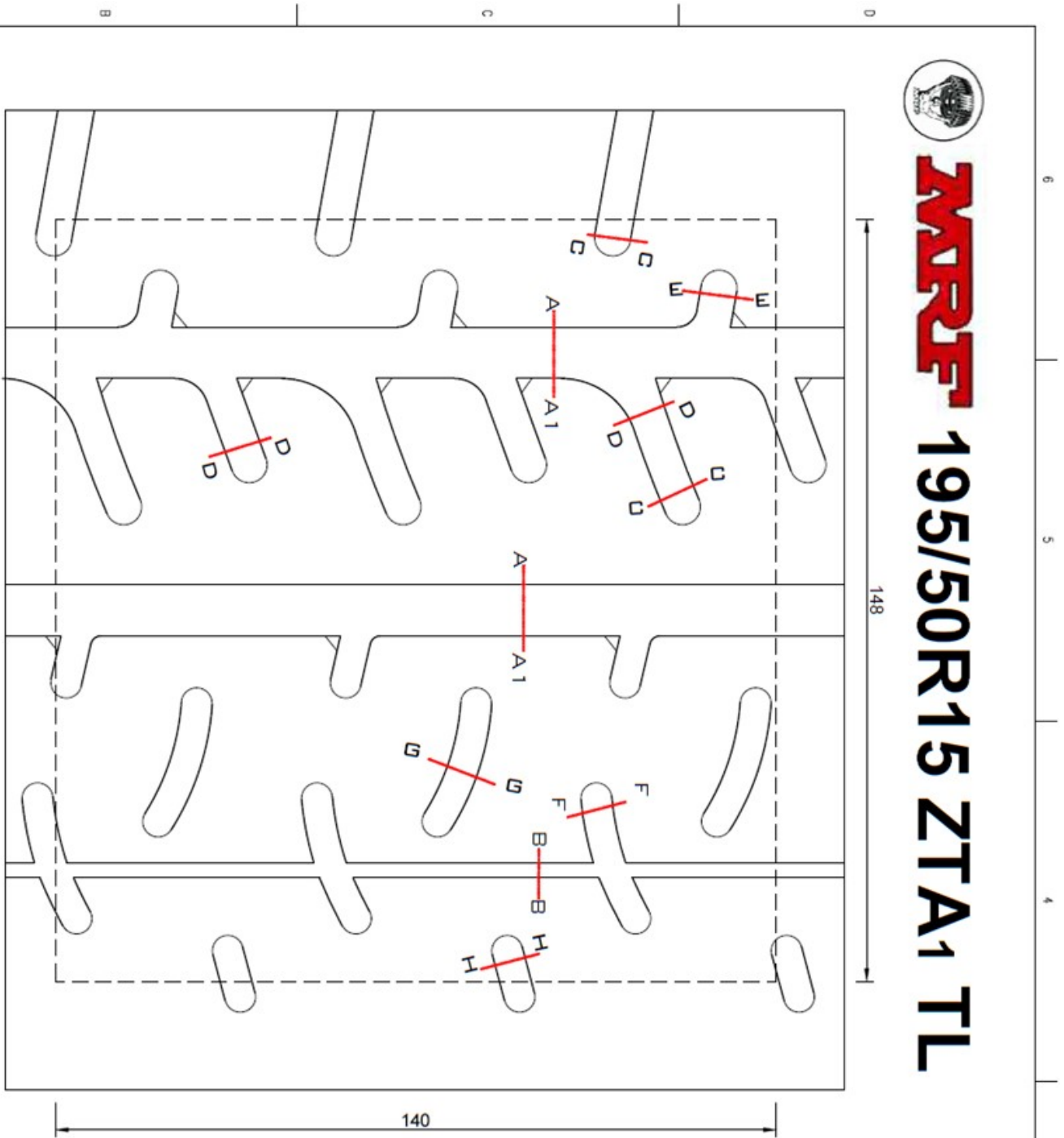
SIZE 185/580R15



15" - 195/50R15



MRF 195/50R15 ZTA1 TL



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

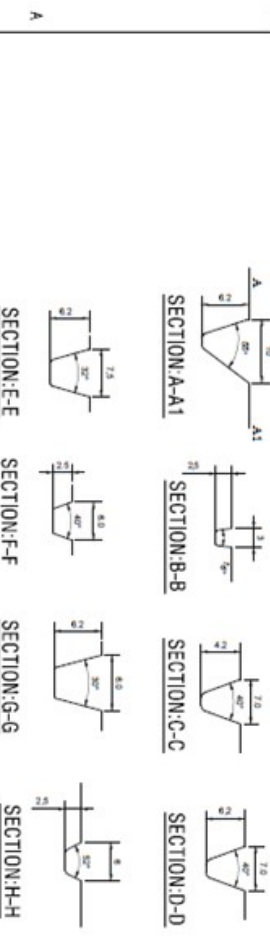
Grooved area within Min. 1.8 deep grooves > 21.5%

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		

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

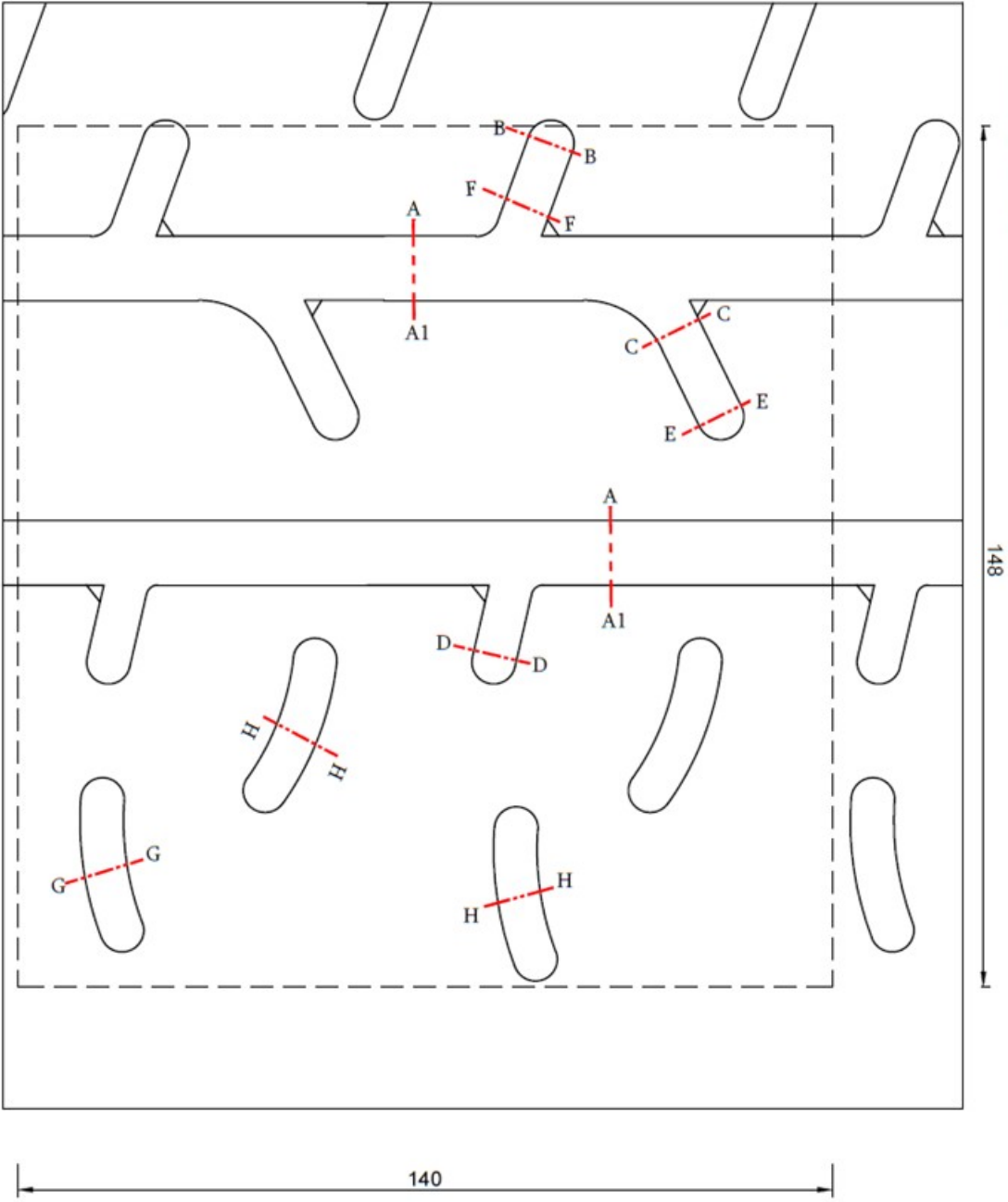
S.No.	DATE	DESCRIPTIONS	DRAWN	EVPRD / PDM



16" - 195/50R16



MRF 195/50R16 ZTA1 TL



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

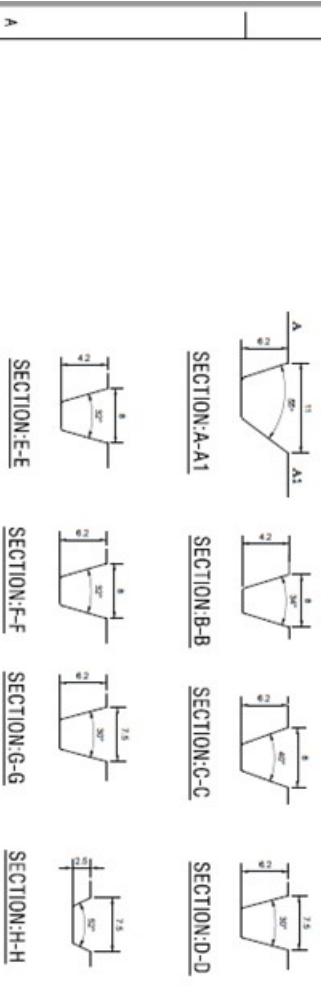
Grooved area within Min. 1.8 deep grooves > 21.5%

Grooved area within Min. 5.5 deep grooves > 17.0%

The total width of the circumferential line is > 12 mm

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

**CLASS 8"
RIM 6.5"**



IF IN DOUBT ASK...
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NOT TO SCALE

S.No.	DATE	DESCRIPTIONS	DRAWN	EVPRD / PDM

CHENNAI **MRF** INDIA

DRAWN	G Kirubhakar	APPROVED	T N Sundar	SCALE
SIGNATURE	DE	EVPRD / PDM	NTS	
DATE	25.01.18			

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

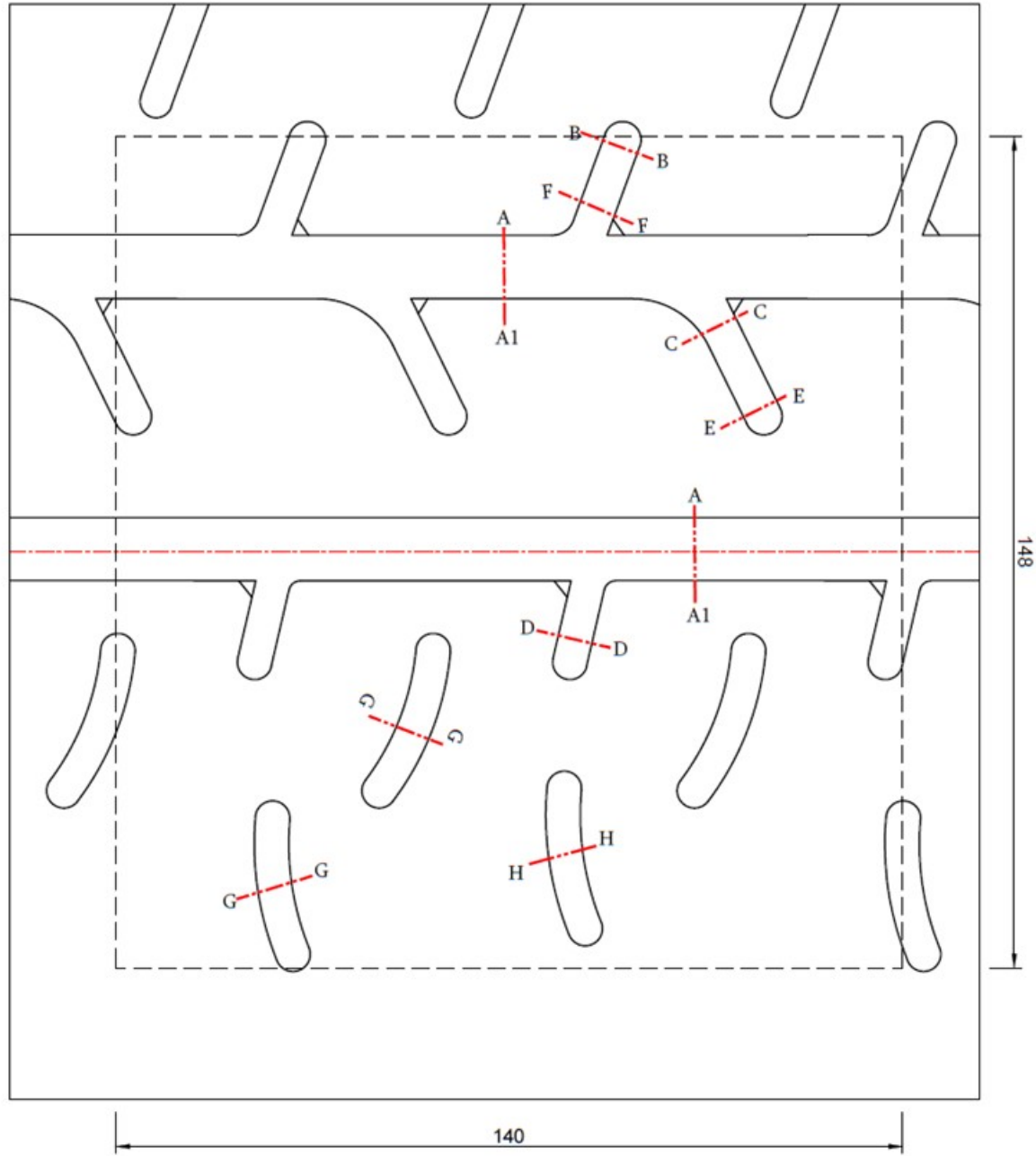
CORPORATE TECHNICAL MOULD DESIGN	DRG No.	RR-195/50R16_0518	REVISION No.	00
SAP DOCUMENT TYPE:	SAP DOCUMENT No.		VER	



17" - 205/45R17



MRF 205/45R17 ZTA1 TL



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

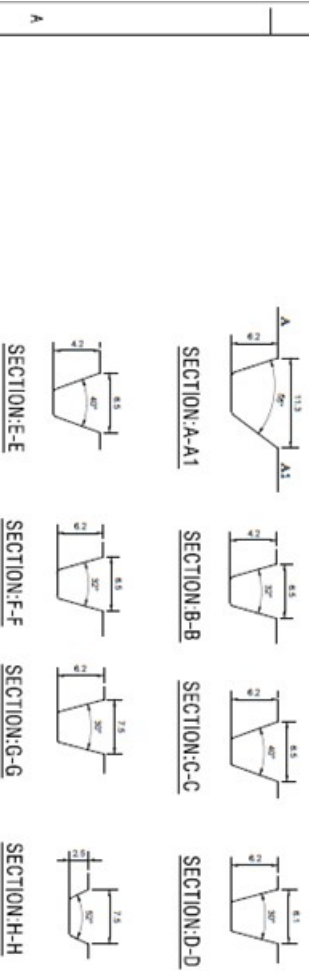
Grooved area within Min. 1.8 deep grooves > 21.5%

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"**



All dimensions are in mm, unless otherwise specified

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SIGNATURE	DE	EVPRD / PDM	NTS
DATE	25.01.18	DATE	29.01.18

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

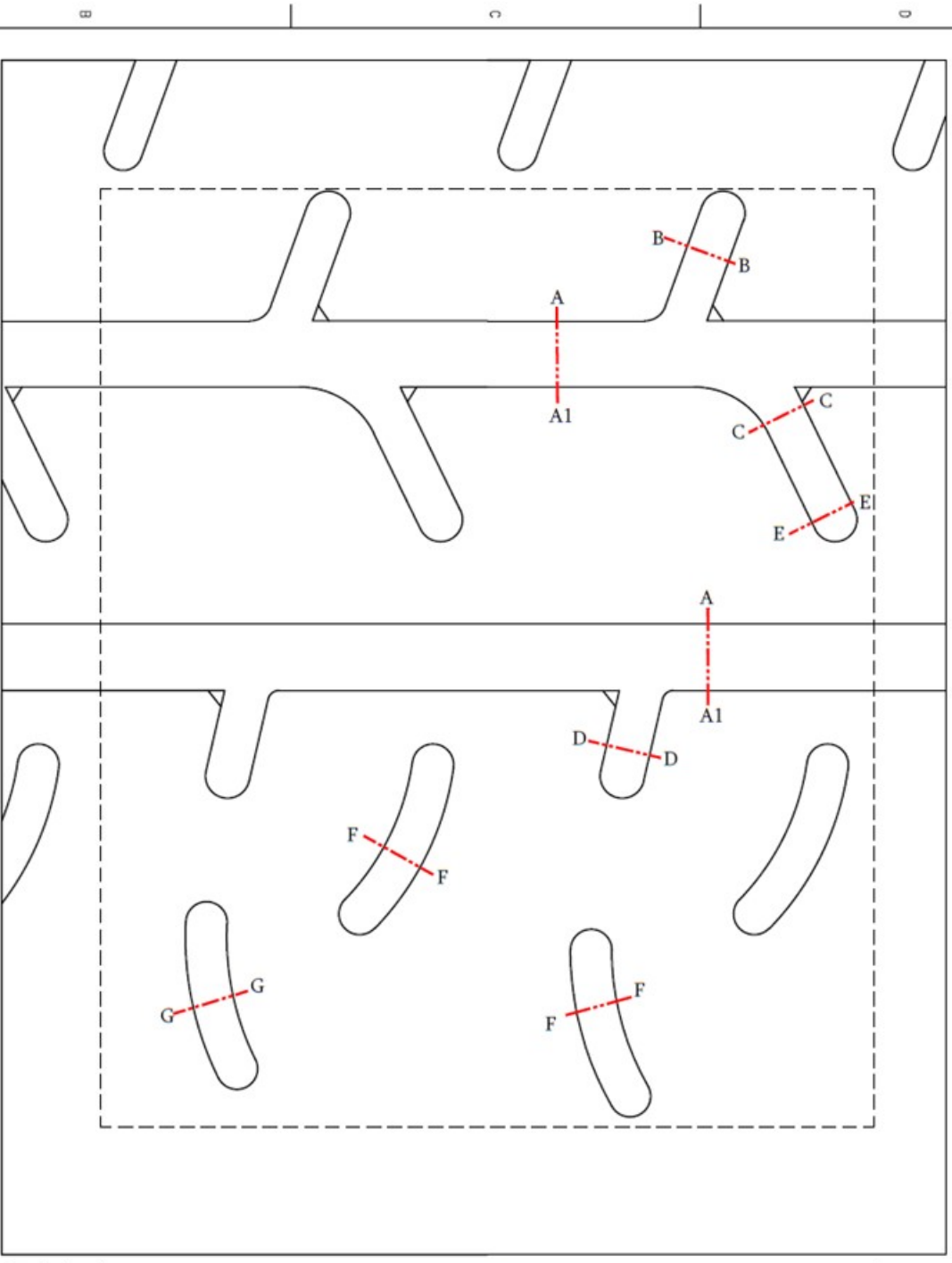
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18" - 235/40R18



MRF 235/40R18 ZTA1 TL



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

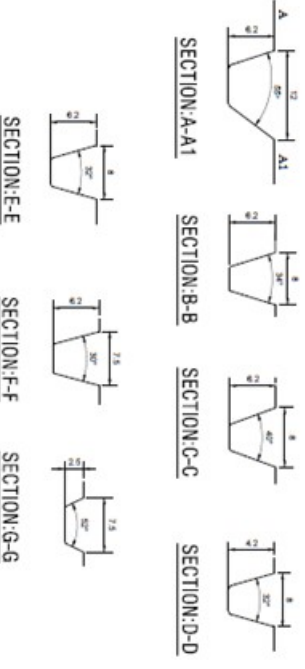
Grooved area within Min. 1.8 deep grooves > 21.5%

Grooved area within Min. 5.5 deep grooves > 17.0%

The total width of the circumferential line is > 12 mm

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

**CLASS 9"
RIM 8.0"**



All dimensions are in mm, Unless otherwise specified

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F.I.A COMPLIANCE FOR 235/40R18 ZTA1 TL					
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SAP DOCUMENT TYPE:	SAP DOCUMENT No.		VER		