



2017 List of Asphalt Eligible Tyres



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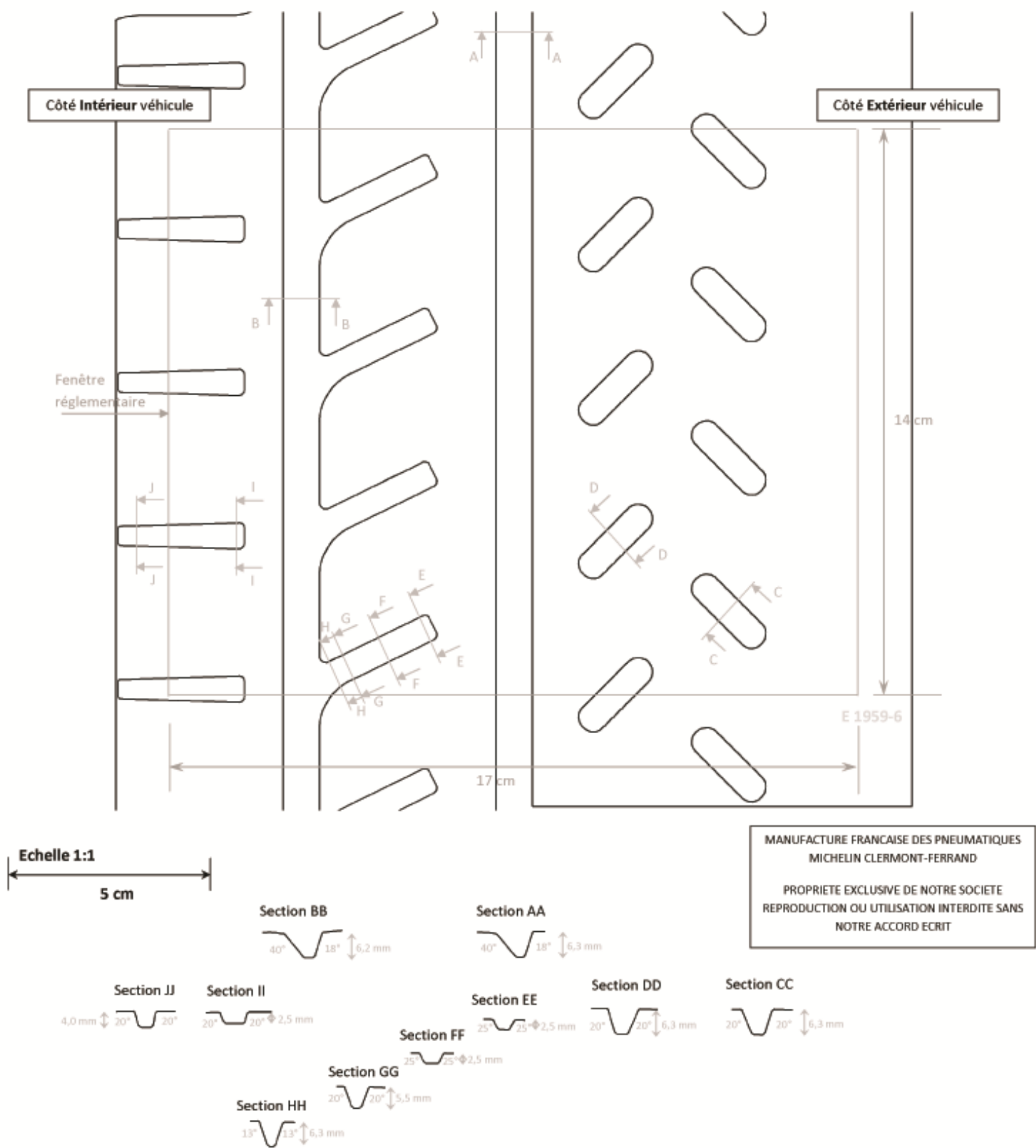


Page 46



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

Clermont-Ferrand le 05/12/2013

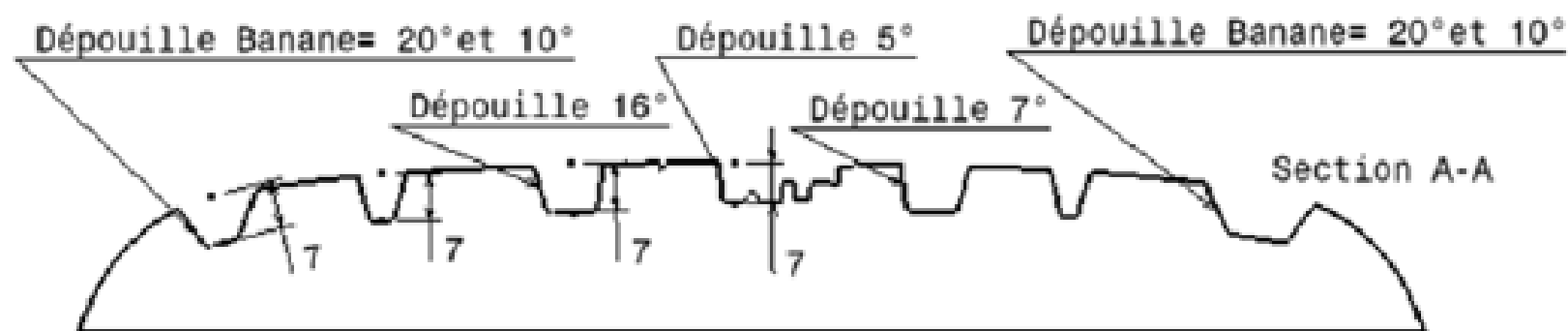
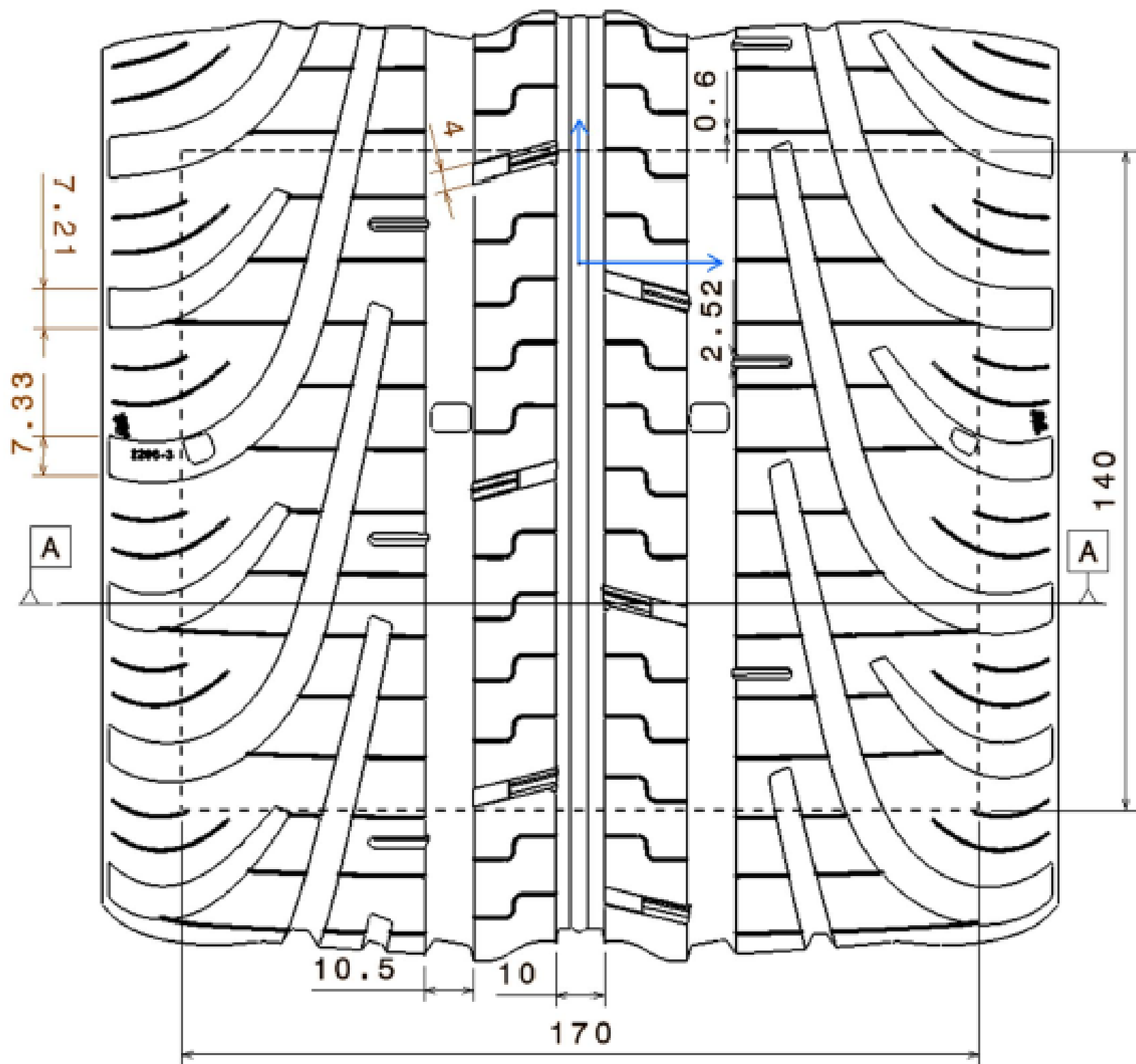




Clermont-Ferrand le : 15/12/2016
Domaine : Rallye Asphalt WRC Wet
Dimension : 18 / 65 – 18
Plan de la sculpture : Pilot Sport FW3
Entaillement Surfamique sur entaille 25,5mm de profondeur : 27.5%

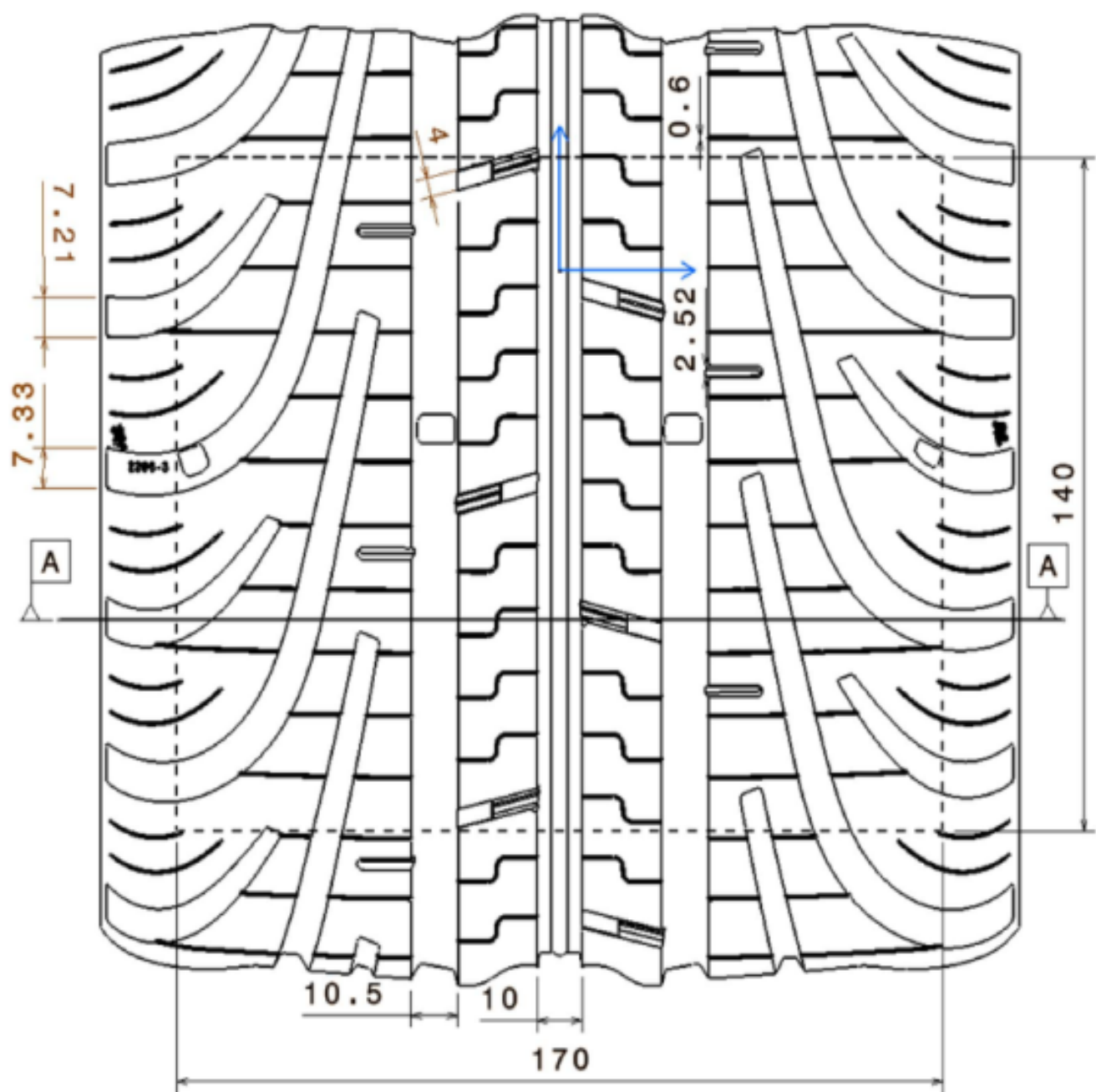
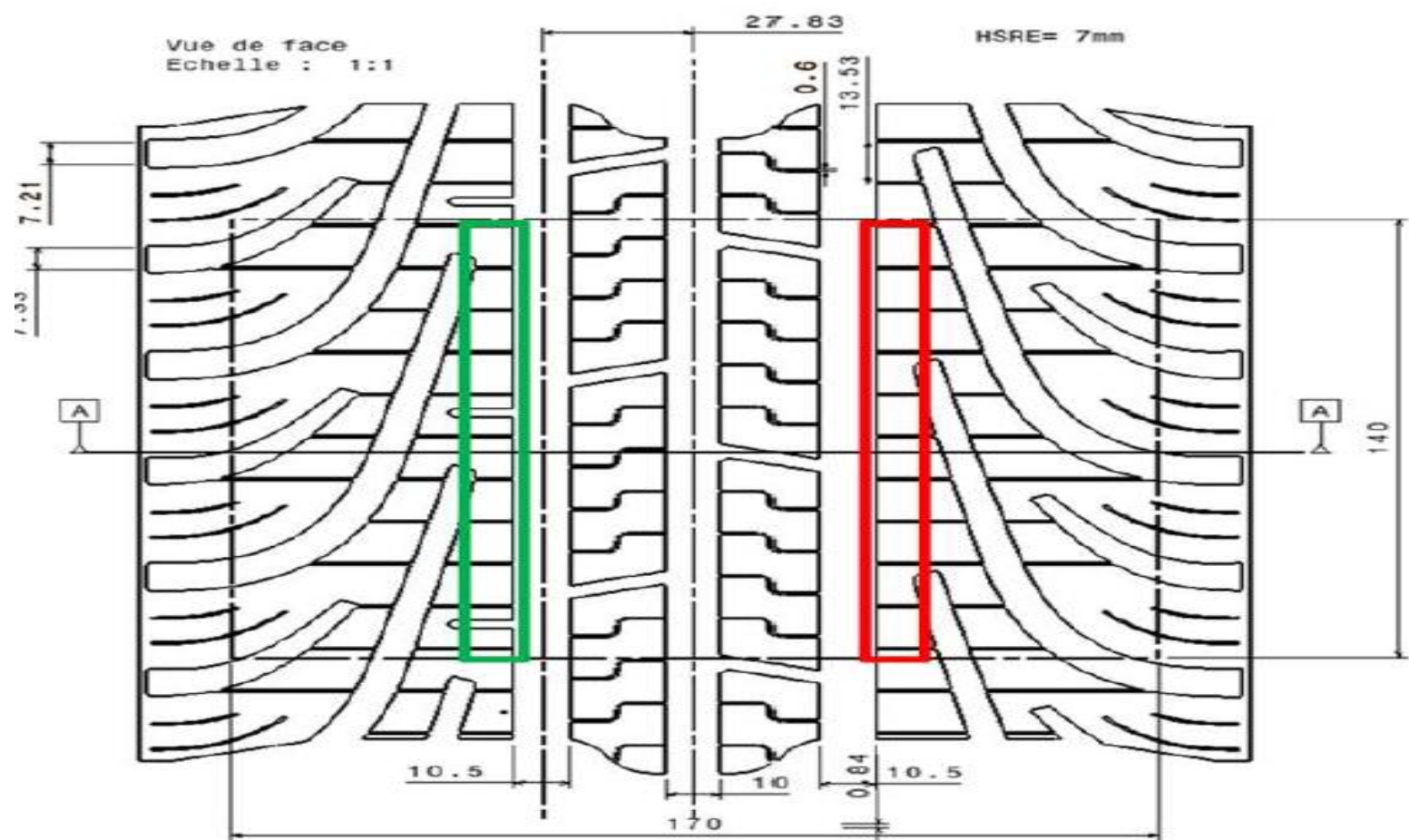
MANUFACTURE FRANCAISE DES PNEUMATIQUES
MICHELIN CLERMONT-FERRAND

PROPRIETE EXCLUSIVE DE NOTRE SOCIETE
REPRODUCTION OU UTILISATION INTERDITE SANS
NOTRE ACCORD ECRIT





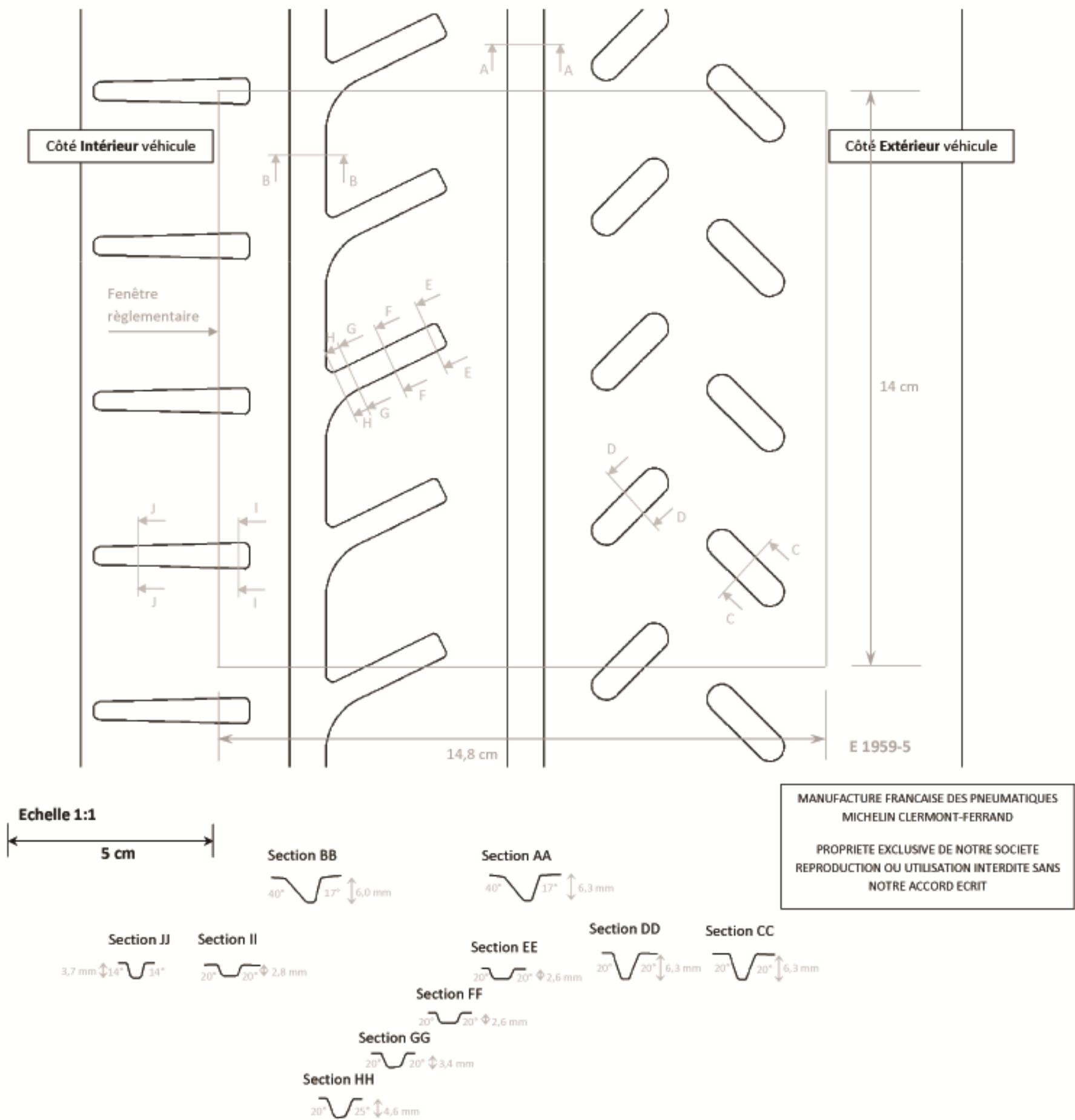
Valid until 31.12.2017





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

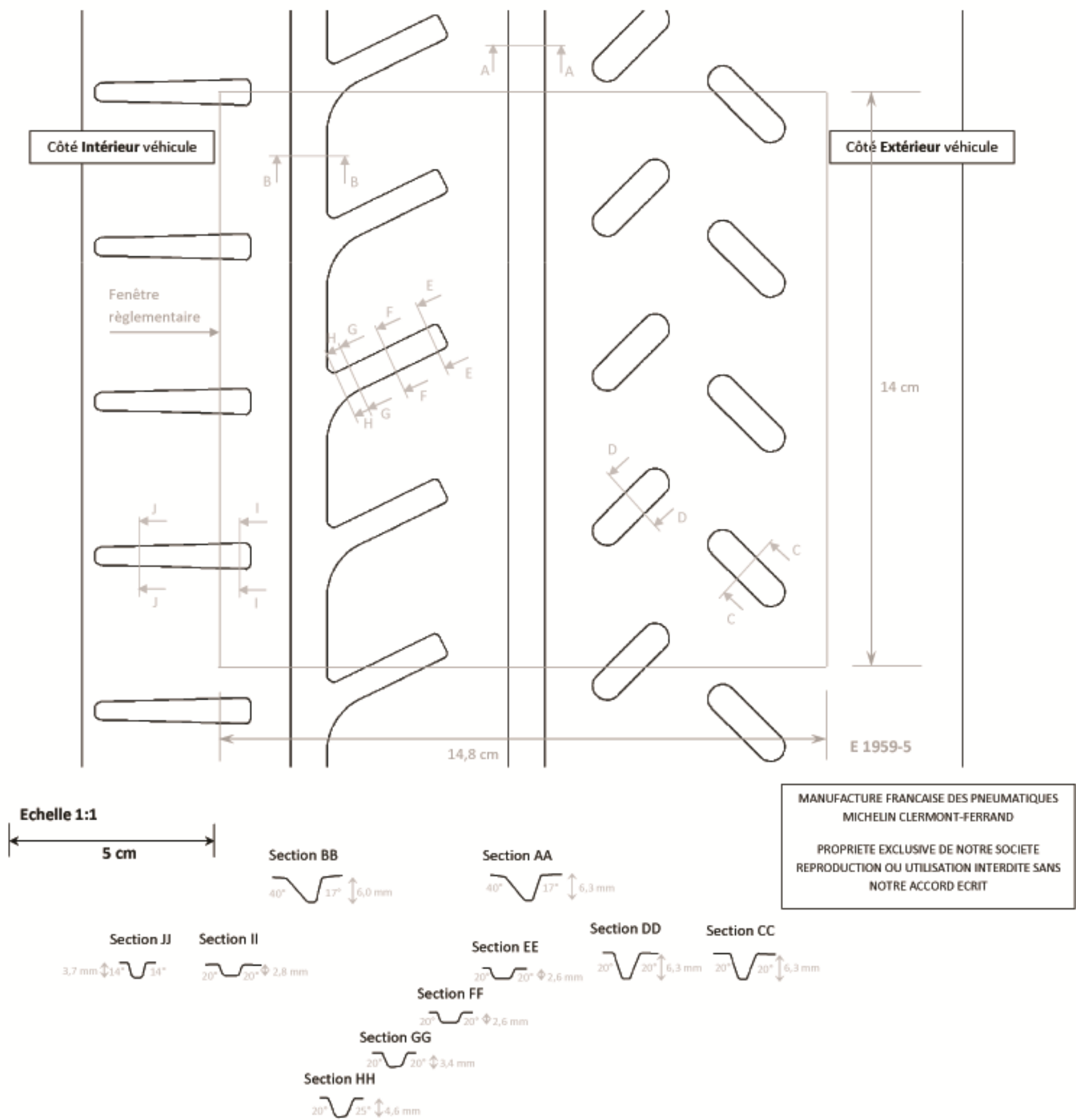
Clermont-Ferrand le 05/12/2013





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

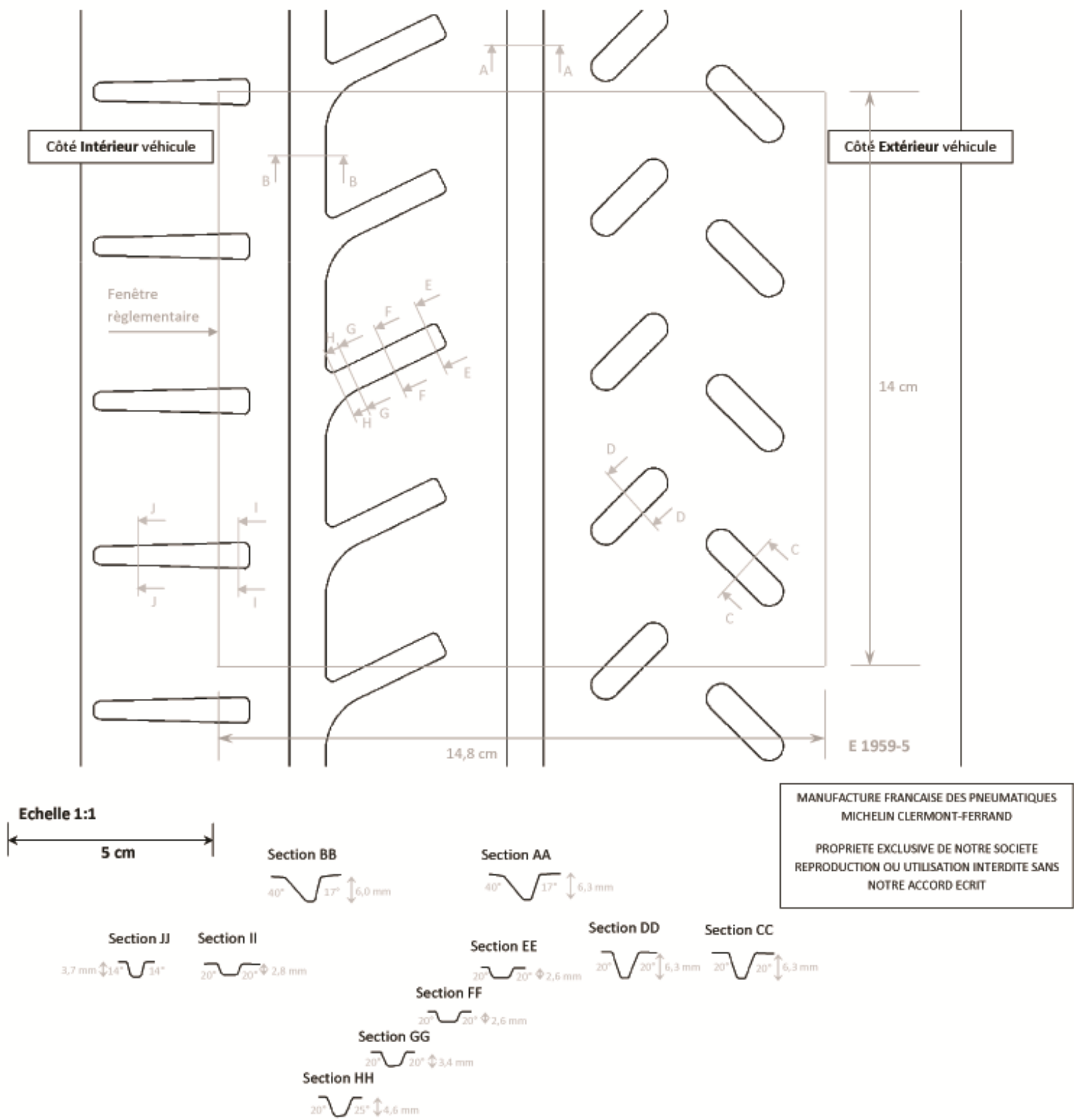
Clermont-Ferrand le 05/12/2013





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

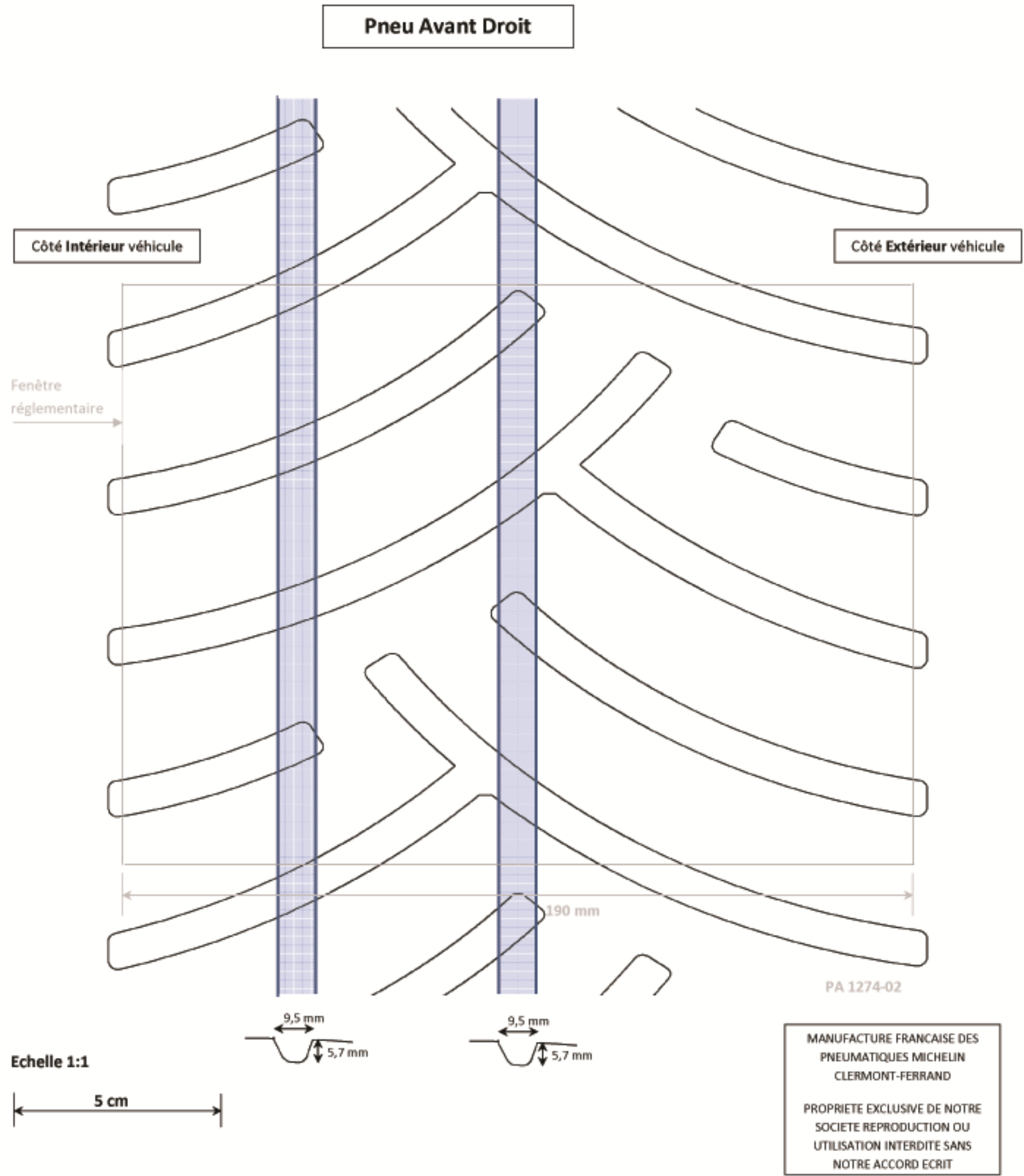
Clermont-Ferrand le 05/12/2013





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

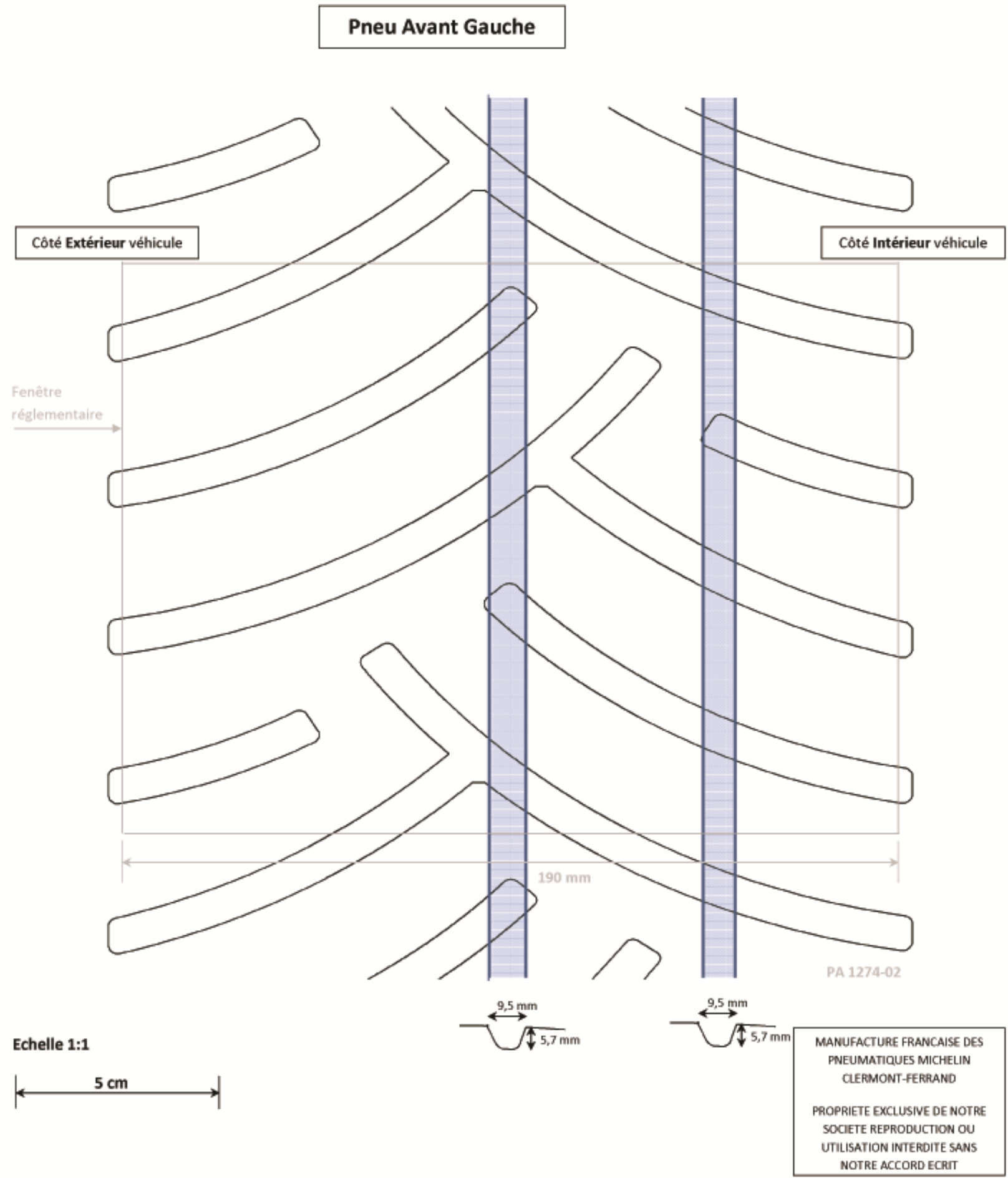


Circonfential grooves are hand-cutted.



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

Clermont-Ferrand le 18/12/2013

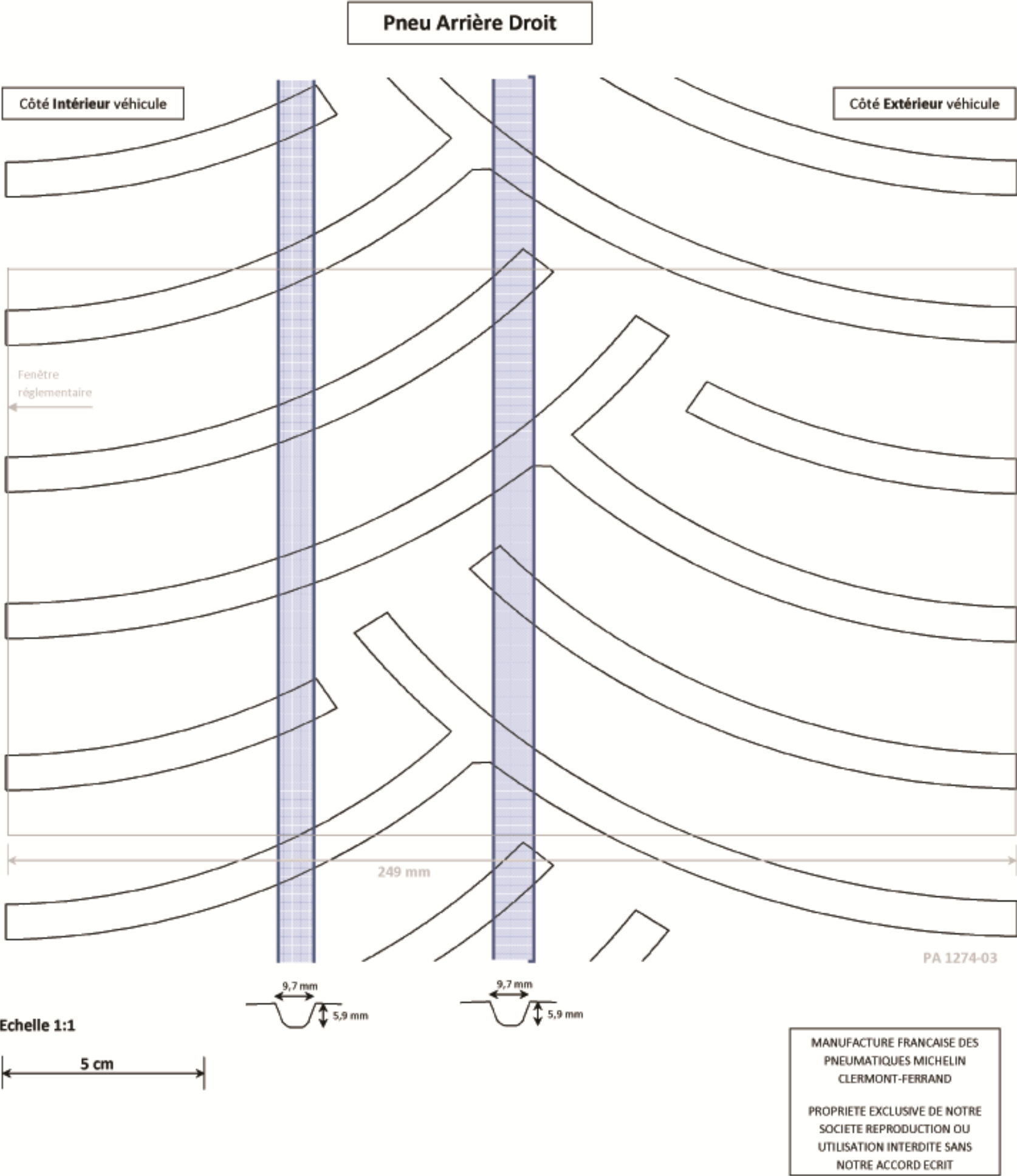


Circonférential grooves are hand-cutted.



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

Clermont-Ferrand le 18/12/2013

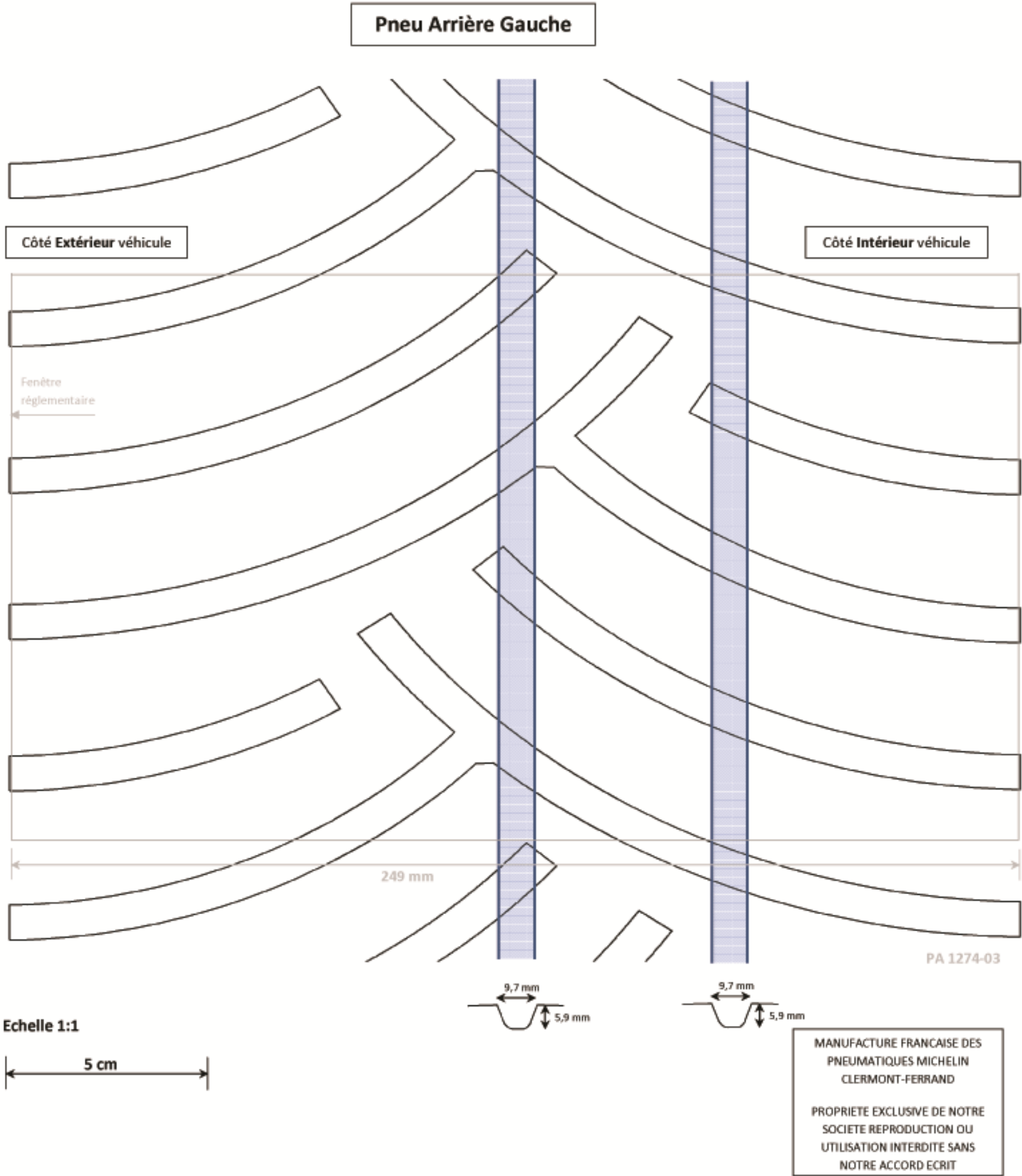


Circonfrential grooves are hand-cutted.



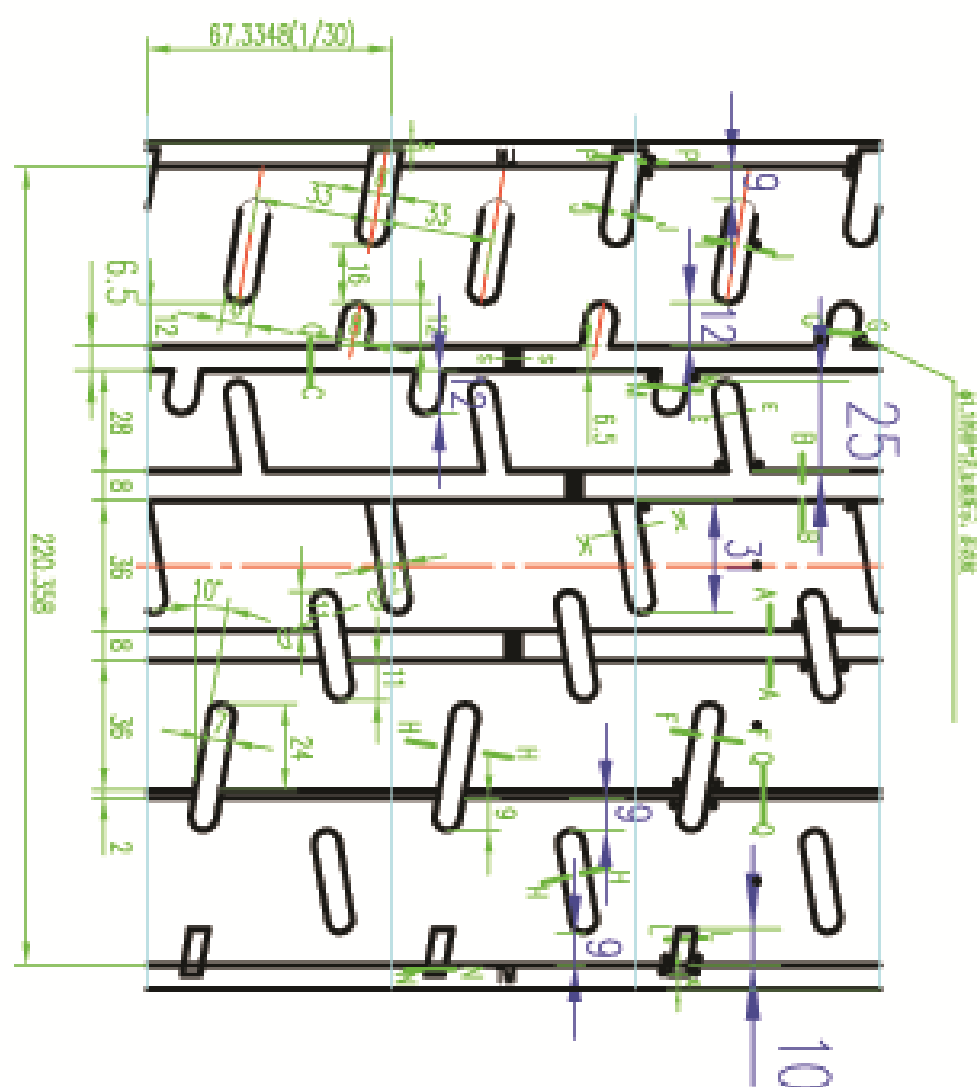
Domaine : Rallye Asphalte
Dimension : 29 / 65 – 18
Entaillement surfacique sur fenêtre de 249 mm de large : 31 %

Clermont-Ferrand le 18/12/2013

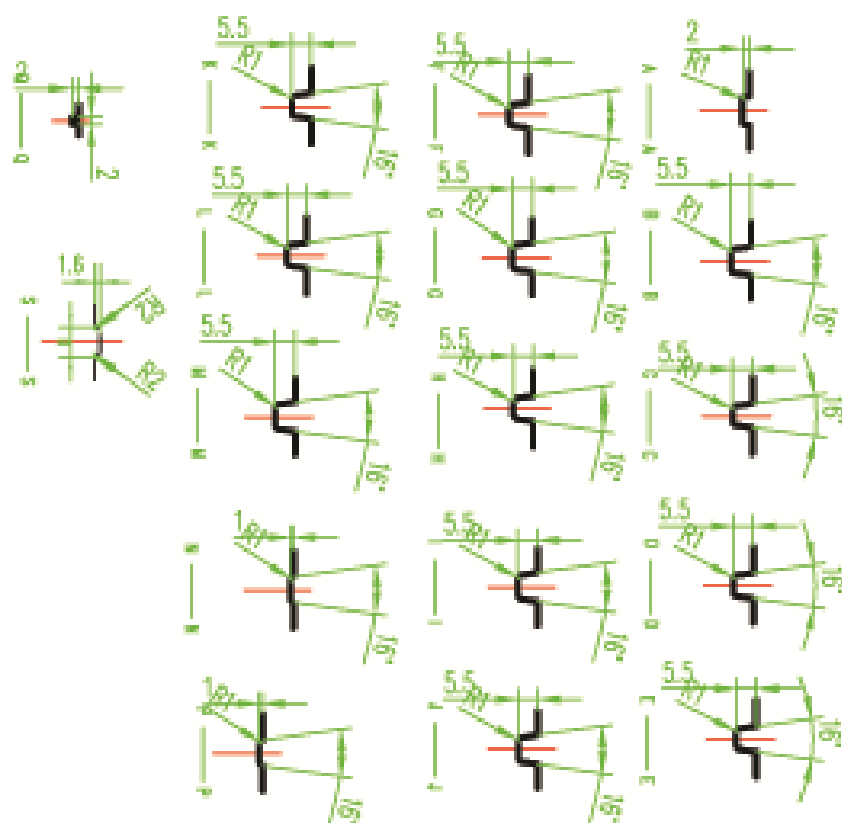


Circonfential groves are hand-cutted.

18" – 225/40-18

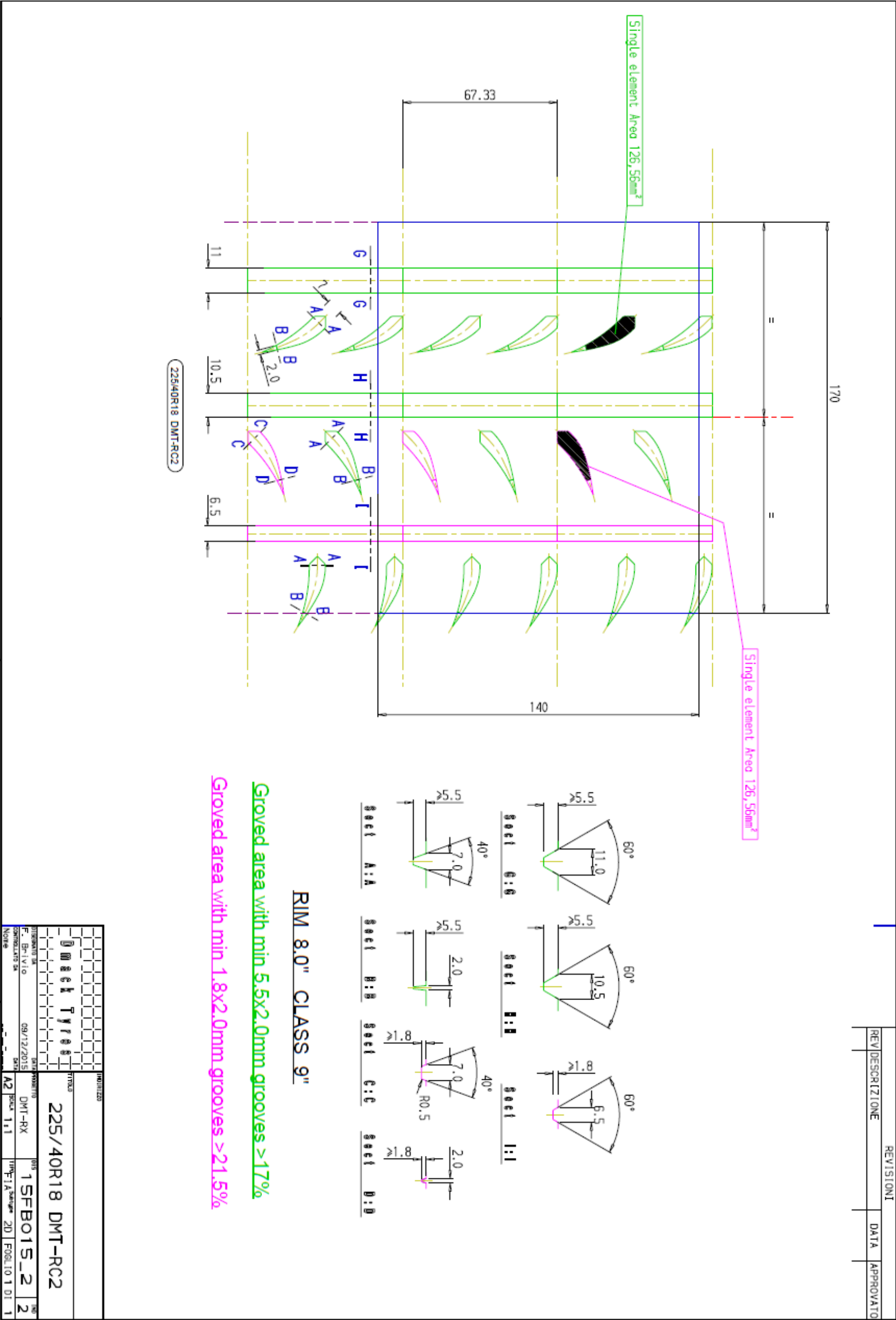


GROOVES SURFACE AREA=5707.86 m²
CONTROL SURFACE =23800 m²
5707.86/23800=23.983%

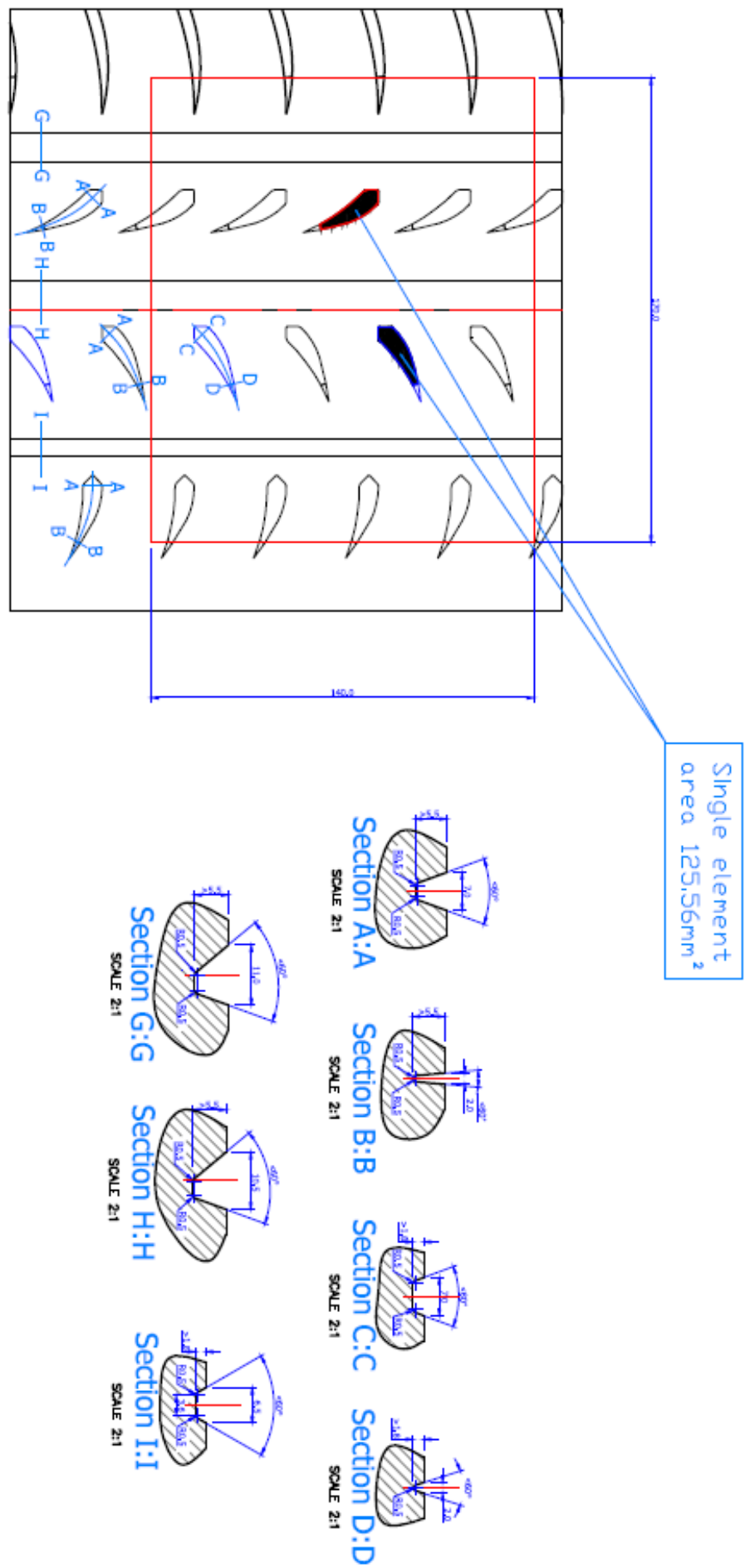


		姓名		日期		图号	
设计		PATTERN		225/40 ZR18 DMT-R			
制图							
校核							
审核		材料	重量	比例	数量	备注	
工艺							
检测							

18" – 225/40-18



18" – 225/40-18



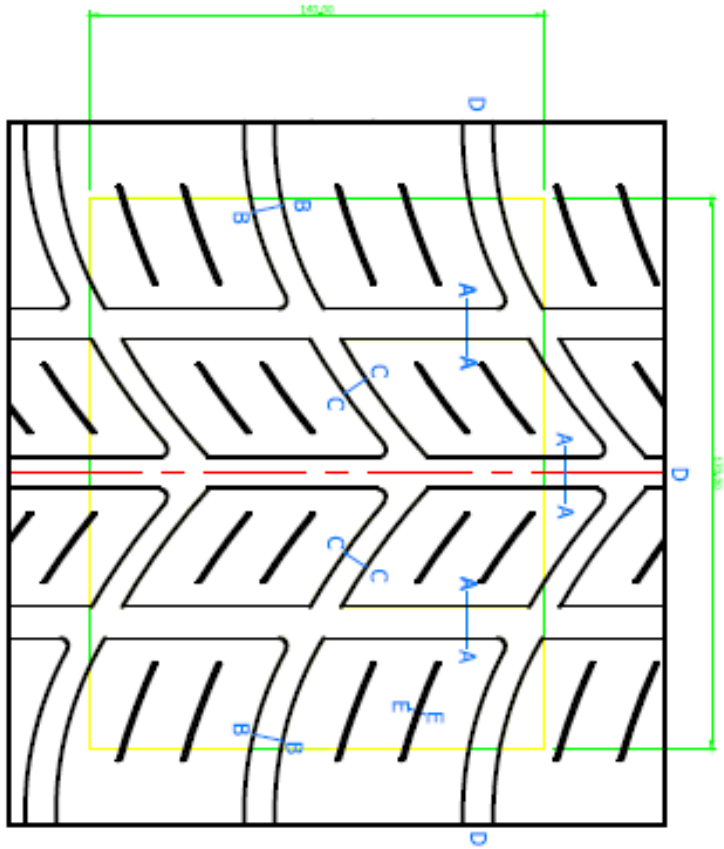
RIM 8.0" Class 9"

GROOVED AREA WITH MIN. 1.8X2.0mm GROOVES >21.5%

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

DRAWING REFERENCES		APPROVAL	
DIMENSIONS			
H41			
MATERIAL			
DMACK TYRES - ENGLAND,			
225/40 R18 DMT RC22 - FIA Homologation table			
The copyright of this drawing is the property of DMACK Tyres Limited. It is to be used only for the purpose for which it was created and is not to be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of DMACK Tyres Limited.			
			
SCALE: 1:1, 2:1, 3:1			
DATE: 02/12/2016			
BY: F. Bravo			
16FB037			

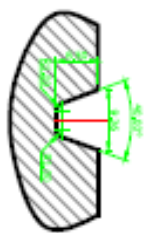
18" – 225/40-18



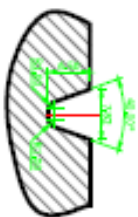
Tread Pattern Detail



Section A:A
SCALE 2:1



Section B:B

Section C:C
SCALE 2:1

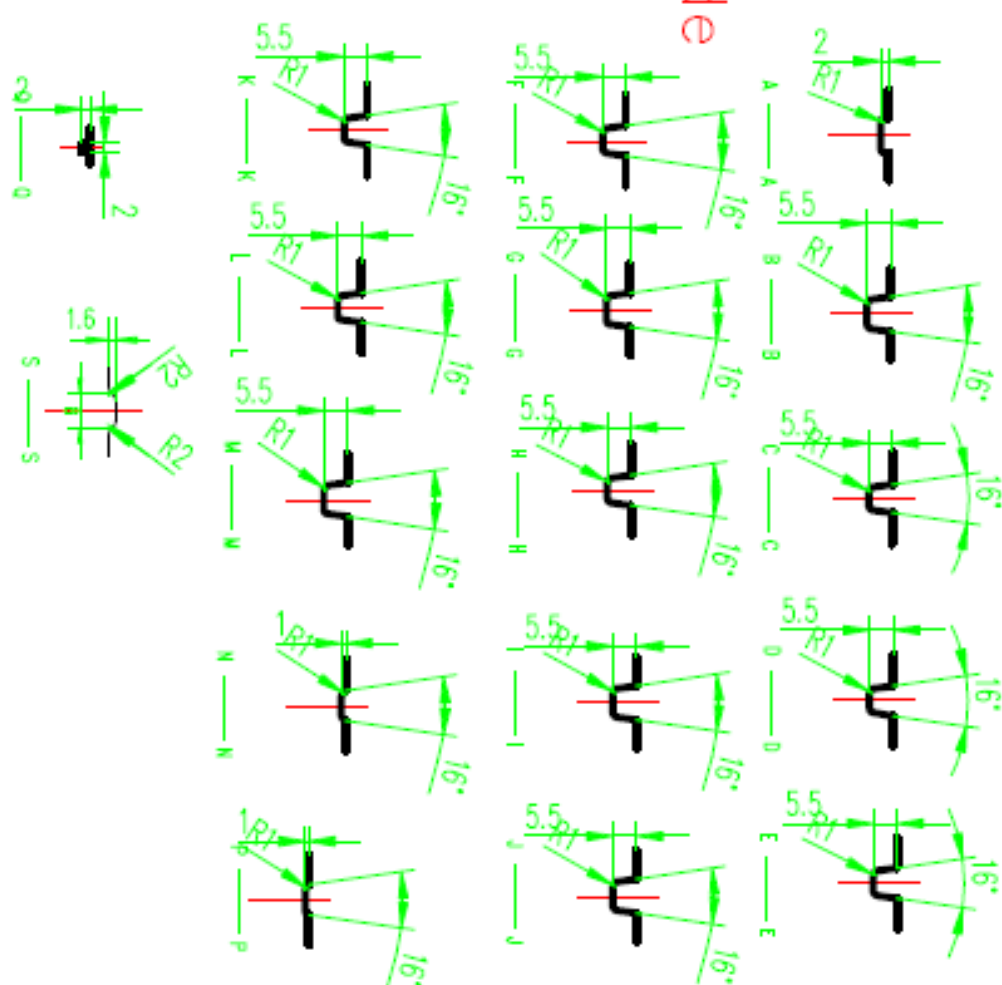
Section E:E
SCALE 2:1

RIM 8.0"

Class 9"

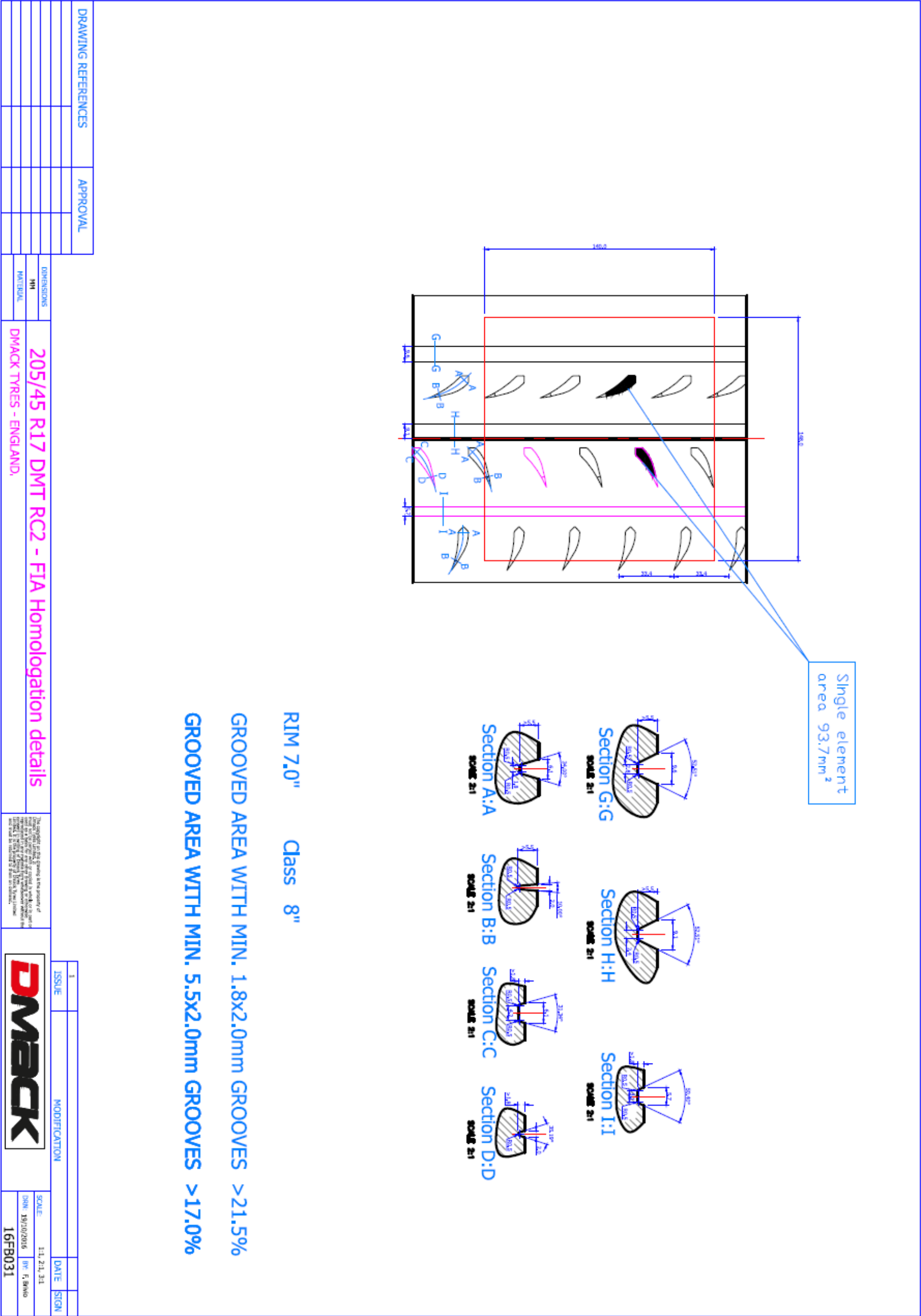
GROOVED AREA WITH MIN. 5.5x2.0mm GROOVES >27.5%

[illegible]

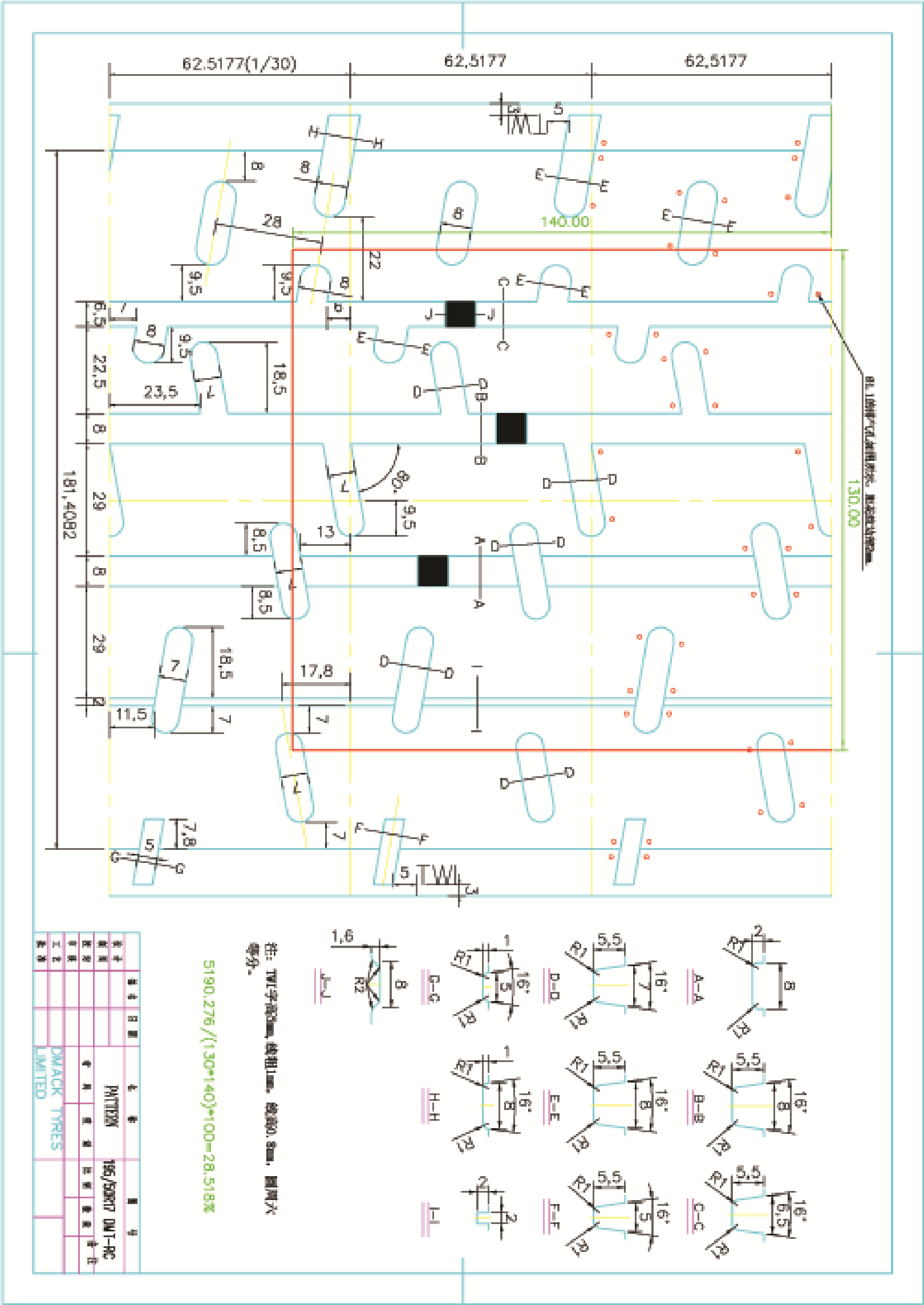


图号	225/45R17 DMT-RC	
名称	PATTERN	
日期		
签名		
设计		
制图		
校对		
审核		
工艺		
批准		

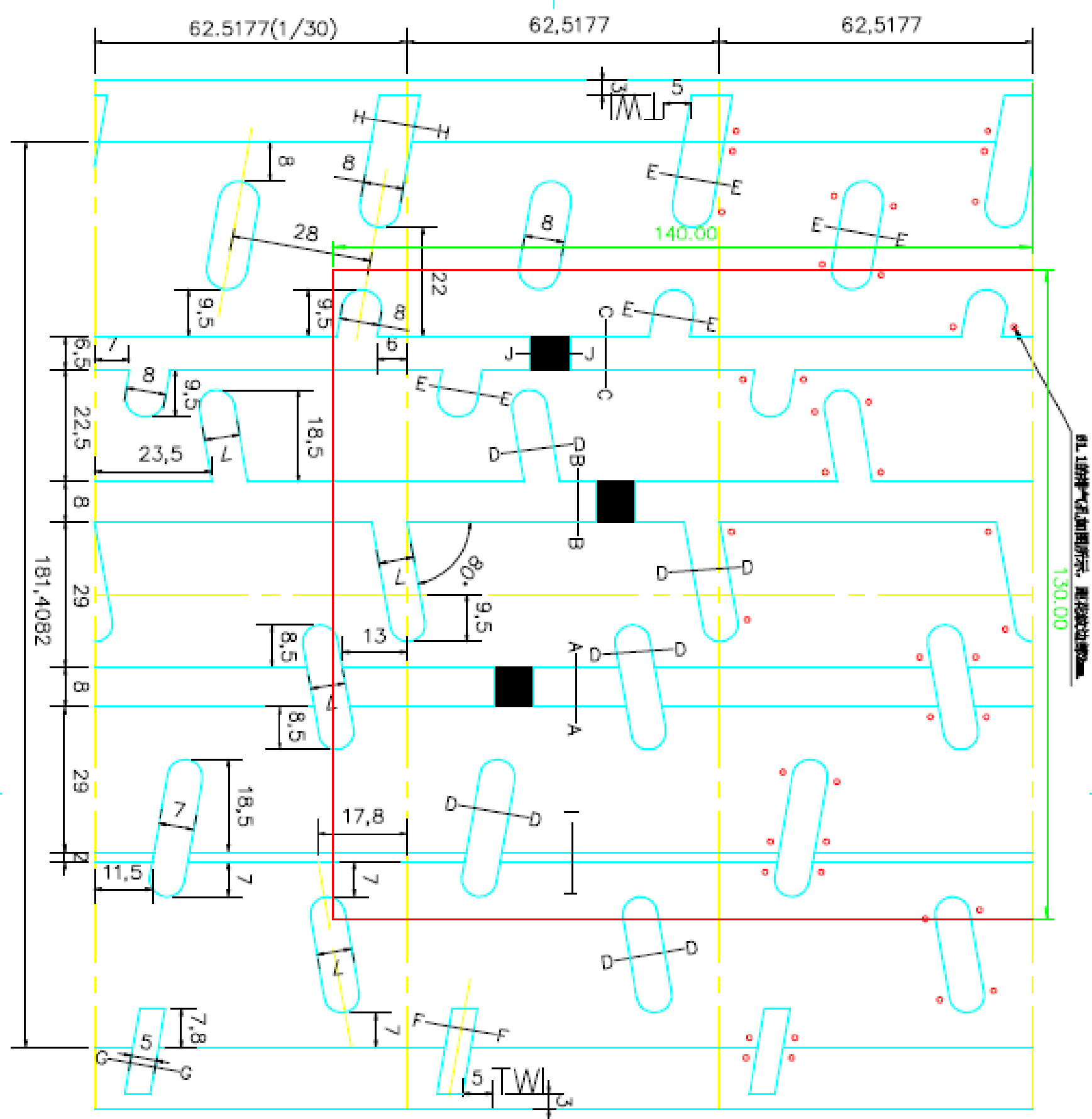
17" – 205/45-17



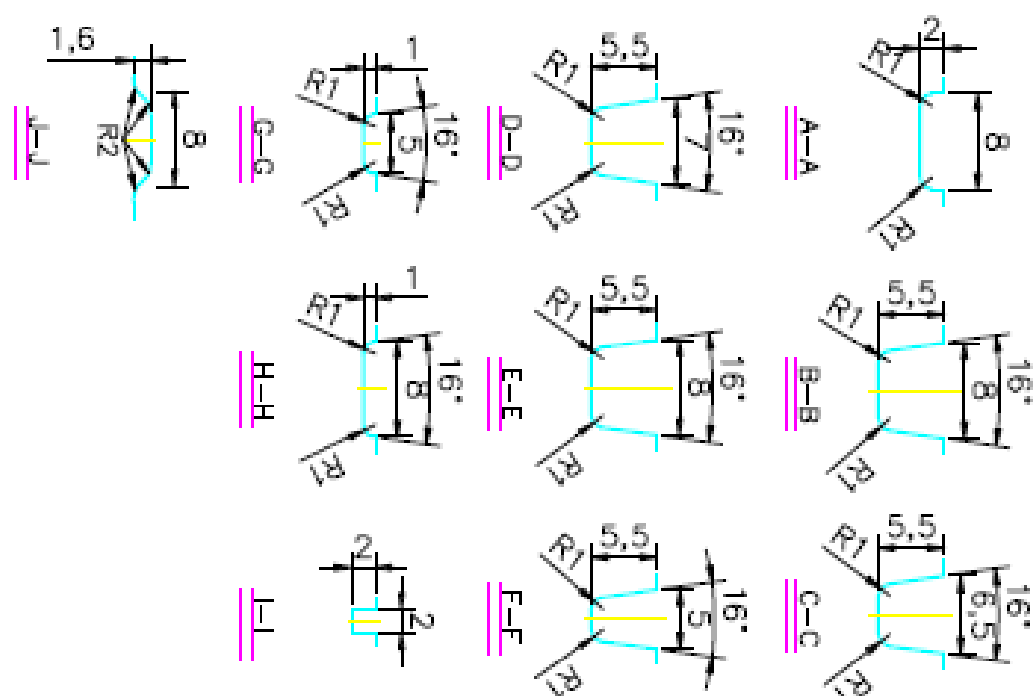
17" – 195/50-17



16" – 195/50-16



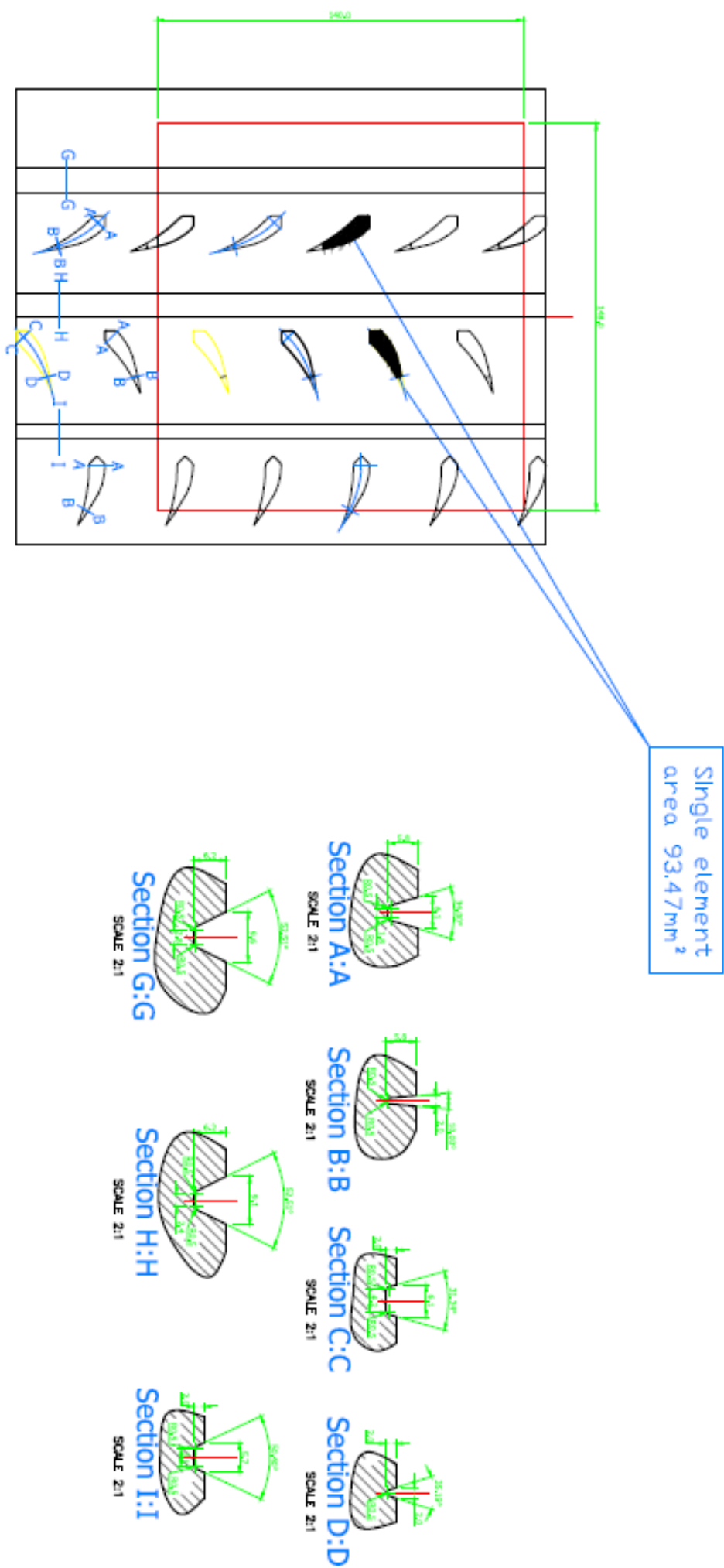
01.11.2017 13:30.00



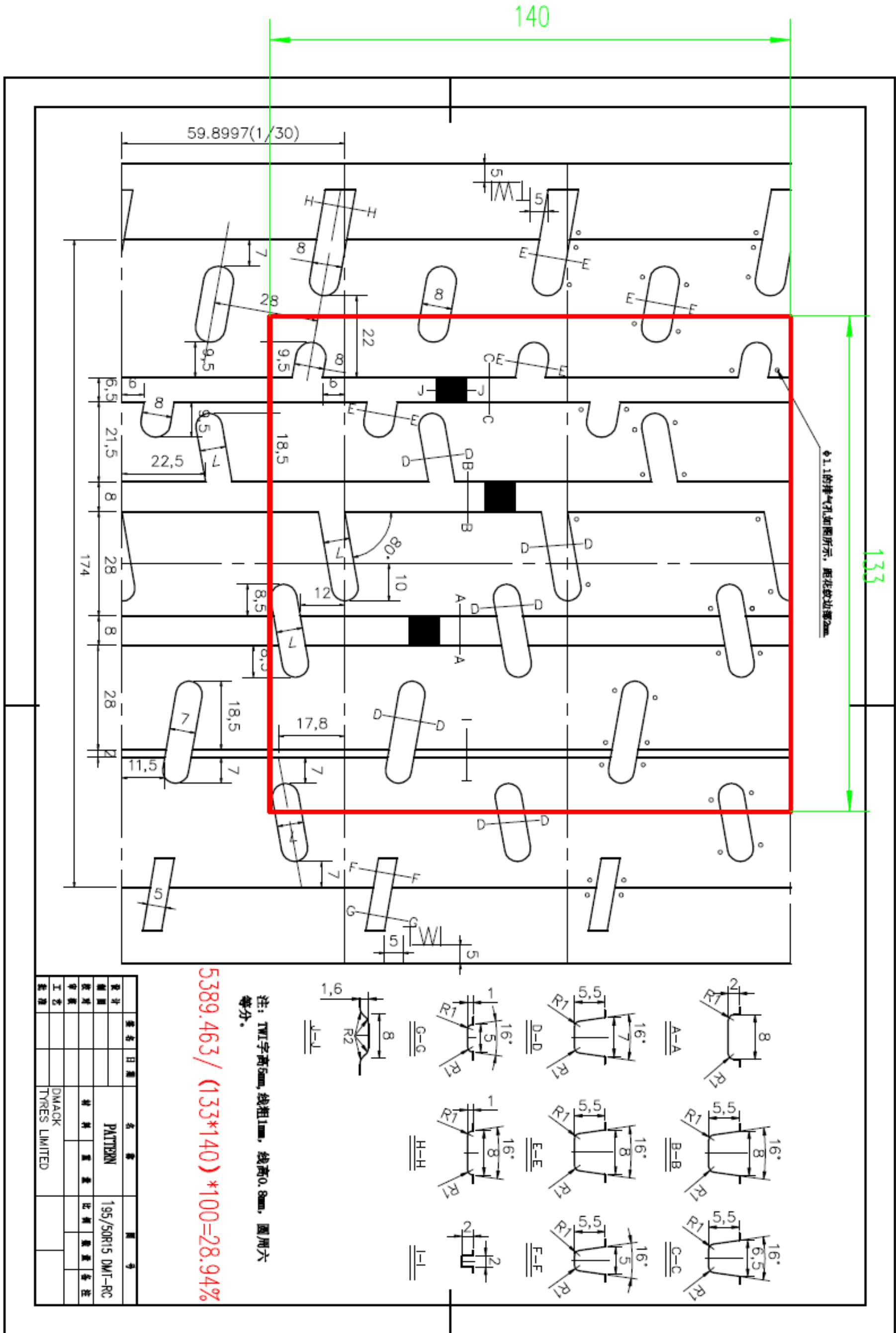
注: TMI字高5mm, 线粗1mm, 线高0.8mm, 圆周六等分。

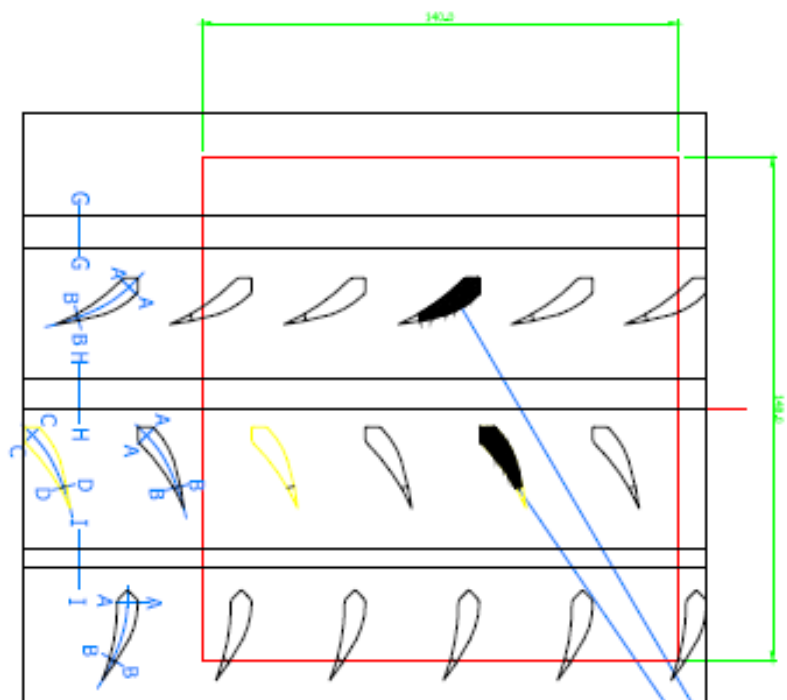
$$5190.276 / (130 + 140) \times 100 = 28.518\%$$

品名		日期		名 称		图 号	
设计				PATTEN		195/50R16 DMF-RC	
制图							
校核				材料	重量	比例	数量
工艺							
审核							

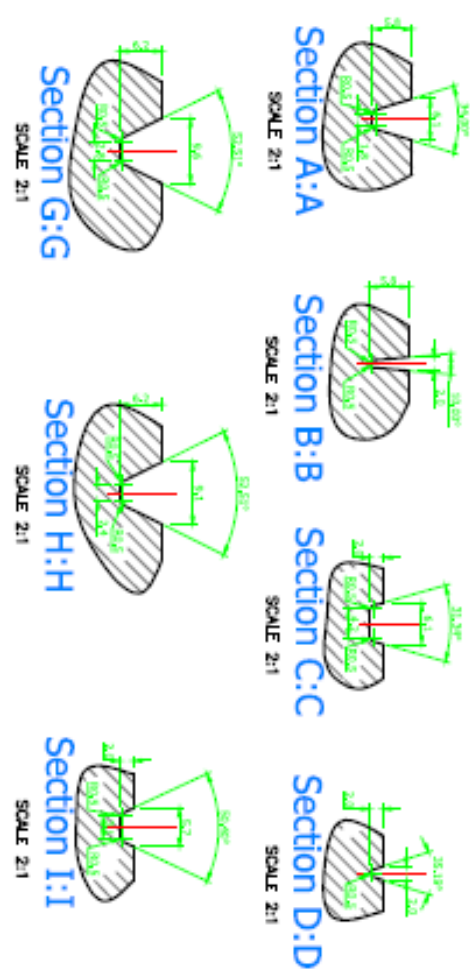
[illegible]

15" – 195/50-15





Single element
area 93.47mm²

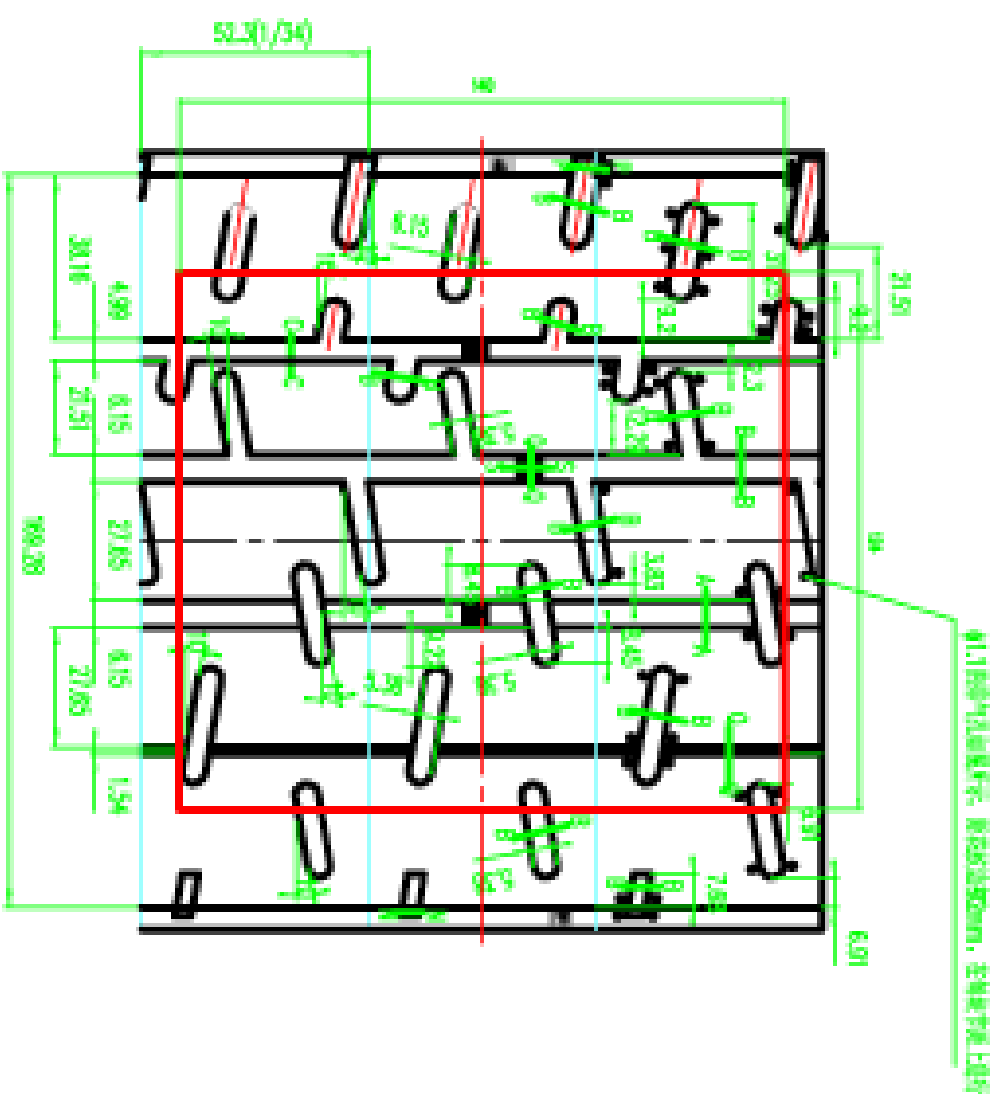


RIM 7.0" Class 8"

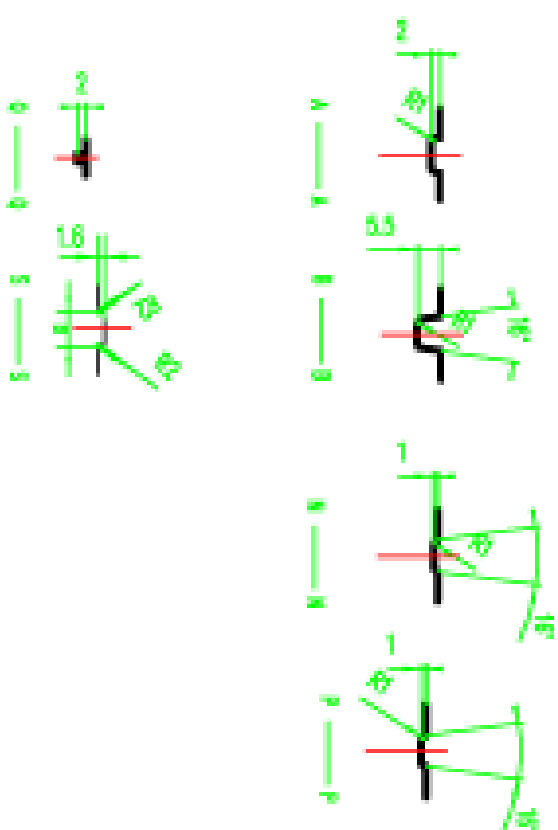
GROOVED AREA WITH MIN. 1.8x2.0mm GROOVES >21.5%

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

DRAWING REFERENCES		APPROVAL	
DIMENSIONS			
H91			
MATERIAL			
DMACK TYRES - ENGLAND.			
195/50 R15 DMT RC2 - FIA Homologation table			
DMACK TYRES - ENGLAND.			
The undersigned on this drawing is the property of DMACK LTD, LONDON, UK. It is not to be used for any other purpose without the written consent of DMACK LTD. It is not to be used for any other purpose without the written consent of DMACK LTD. It is not to be used for any other purpose without the written consent of DMACK LTD.			
			
SCALE: 1:1, 2:1, 3:1			
DATE: 16/03/2017 BY: F. BHM			
17FB004			
ISSUE			
MODIFICATION			
DATE			
SIGN			



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%

	品名	日期	规格	型号
规格			TREAD	175/60R14 DMT-RC
制图				
校时			材料	重量
审核				比例
工艺				数量
批准			DMACK TYRES LTD	
				备注



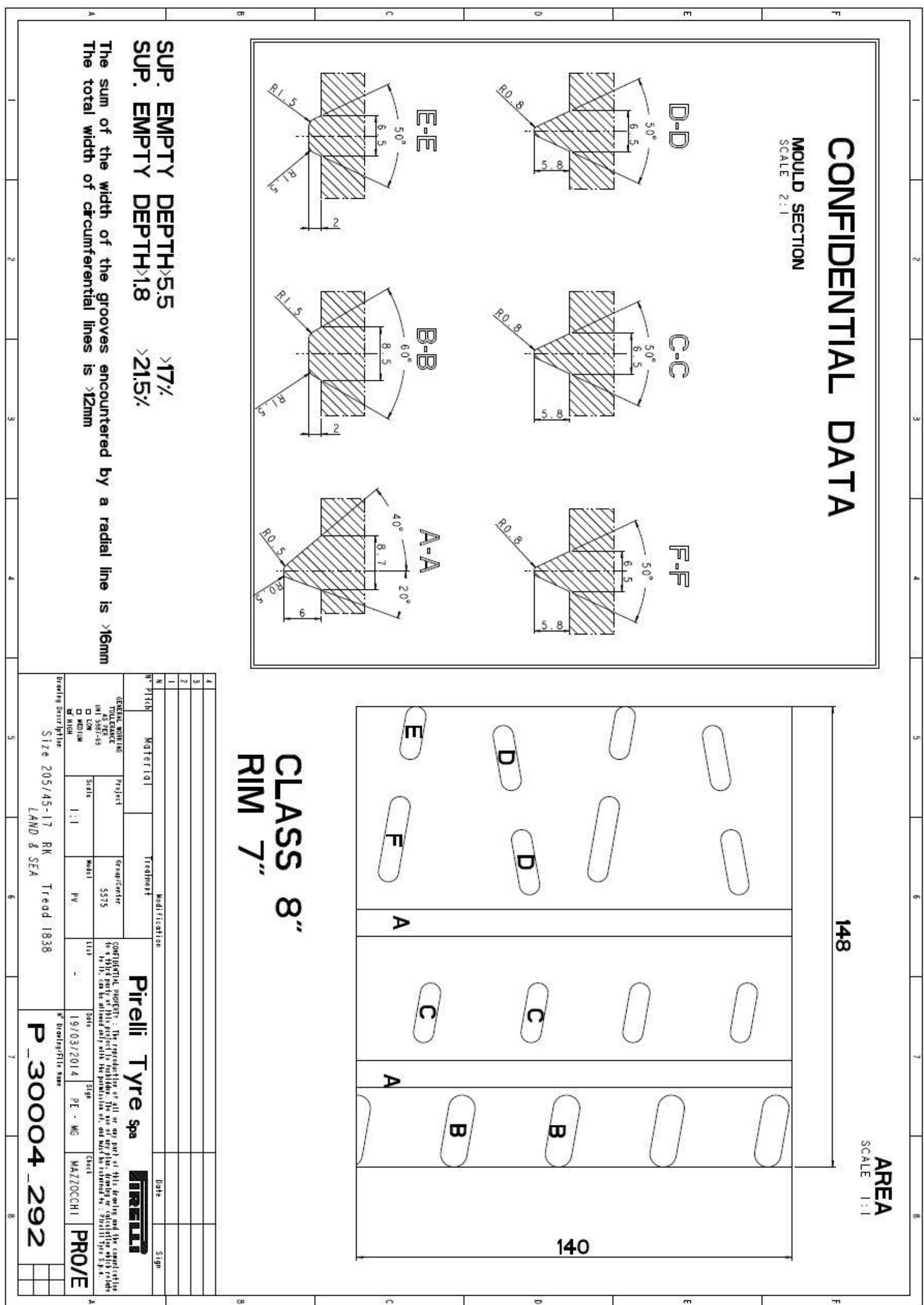


18" – 235/40 - 18

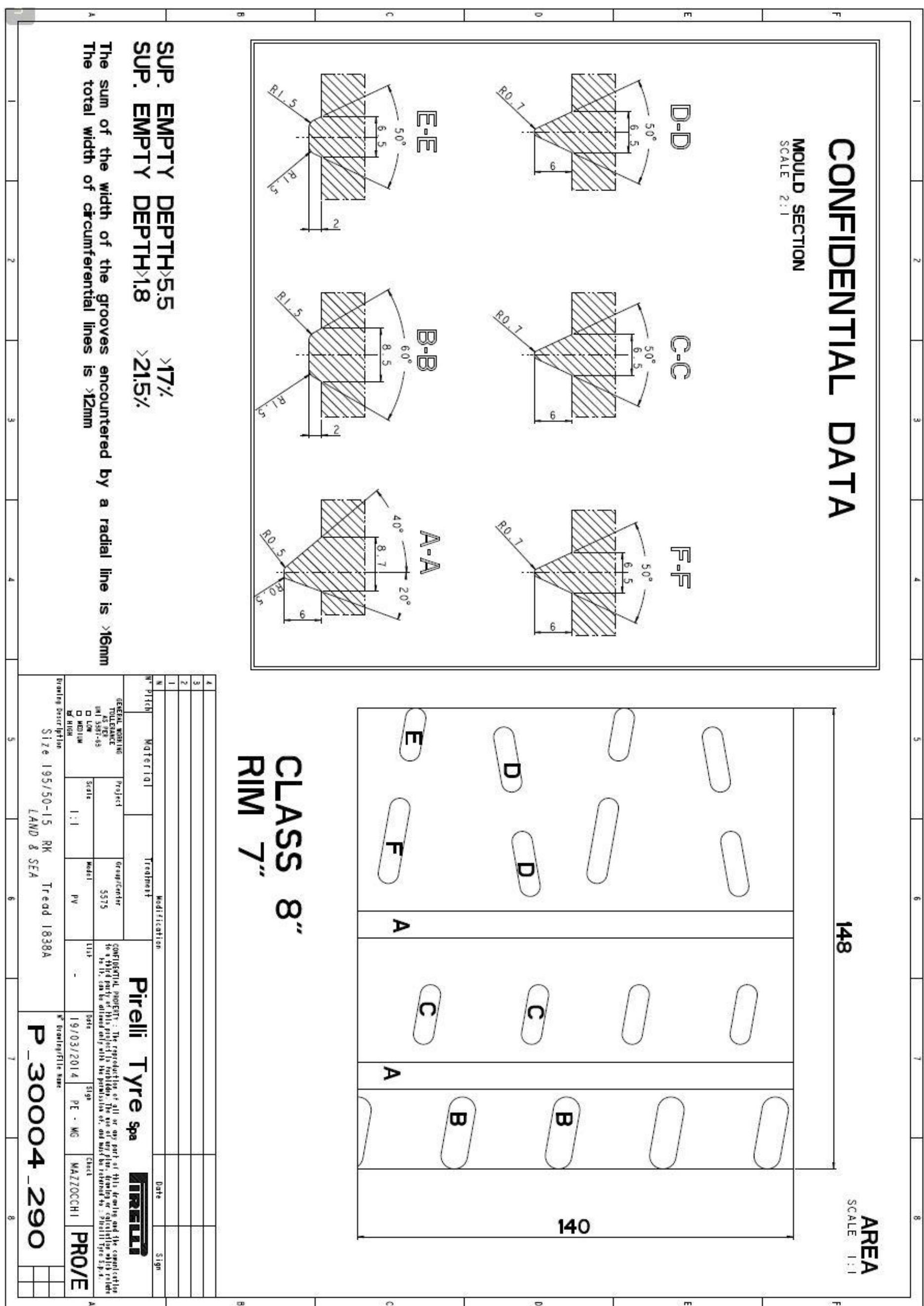
	1	2	3	4	5	6	7	8						
A	CONFIDENTIAL DATA MOULD SECTION SCALE 2:1 A-A ALL THE GROOVES HAVE THE SAME SECTION													
B	SUP. EMPTY DEPTH>5.5mm >27.5% The sum of the width of the grooves encountered by a radial line is >16mm The sum of the width of the grooves encountered by a circumferential line is >4mm Three (3) circumferential lines The total width of circumferential lines is >12mm													
C														
D														
E														
F	AREA SCALE 1:1 170 140													
A	<table border="1"><thead><tr><th>1</th><th>2</th></tr></thead><tbody><tr><td colspan="2">CLASS 9"</td></tr><tr><td colspan="2">RIM 8"</td></tr></tbody></table>								1	2	CLASS 9"		RIM 8"	
1	2													
CLASS 9"														
RIM 8"														
B														
C														
D														
E														
F														

1	2
GENERAL WORKING TOLERANCES UNIT: 5007-63 D: 0.001mm H: 0.001mm	
Project: -	
Scale: 1:1	
Sheet: -	
File Name: P_30010_028_00	
Date: 01/08/2016	
Sign: PE-MG	
Object: MAZZUCCHI	
Drawing File Name: P_30010_028	

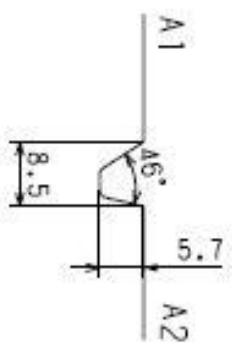
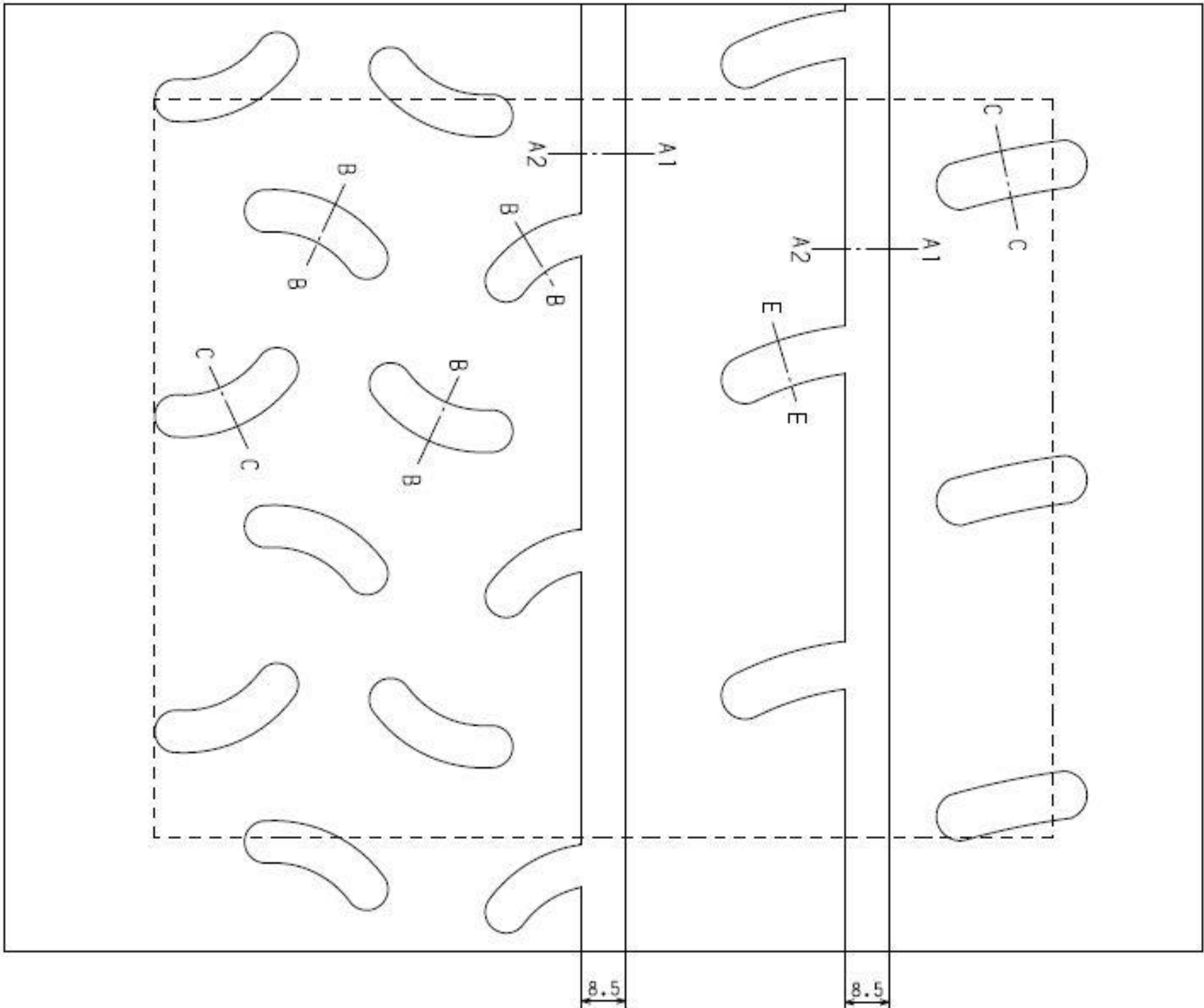
1	2
CONFIDENTIAL. PROPERTY of Firelli Tyre. The reproduction of all or any part of this drawing and the communication to a third party of this project is prohibited. The use of any part, drawing or information which results in its use can be allowed only with the permission of Firelli Tyre S.p.A.	
Firelli Tyre S.p.A.	
Date: 01/08/2016	
Sign: PE-MG	
Object: MAZZUCCHI	
Drawing File Name: P_30010_028	



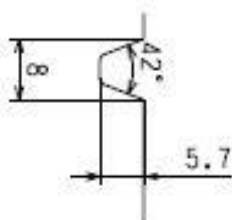
2017 List of Asphalt eligible tyres



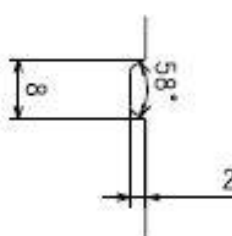
18" – 235/40-18



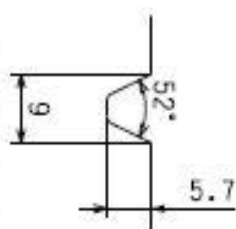
SEC. A1-A2



SEC. B-B



SEC. C-C



SEC. E-E

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

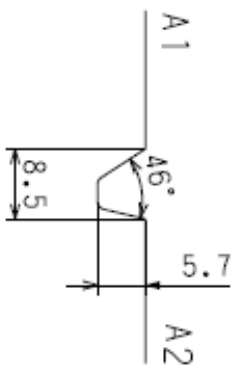
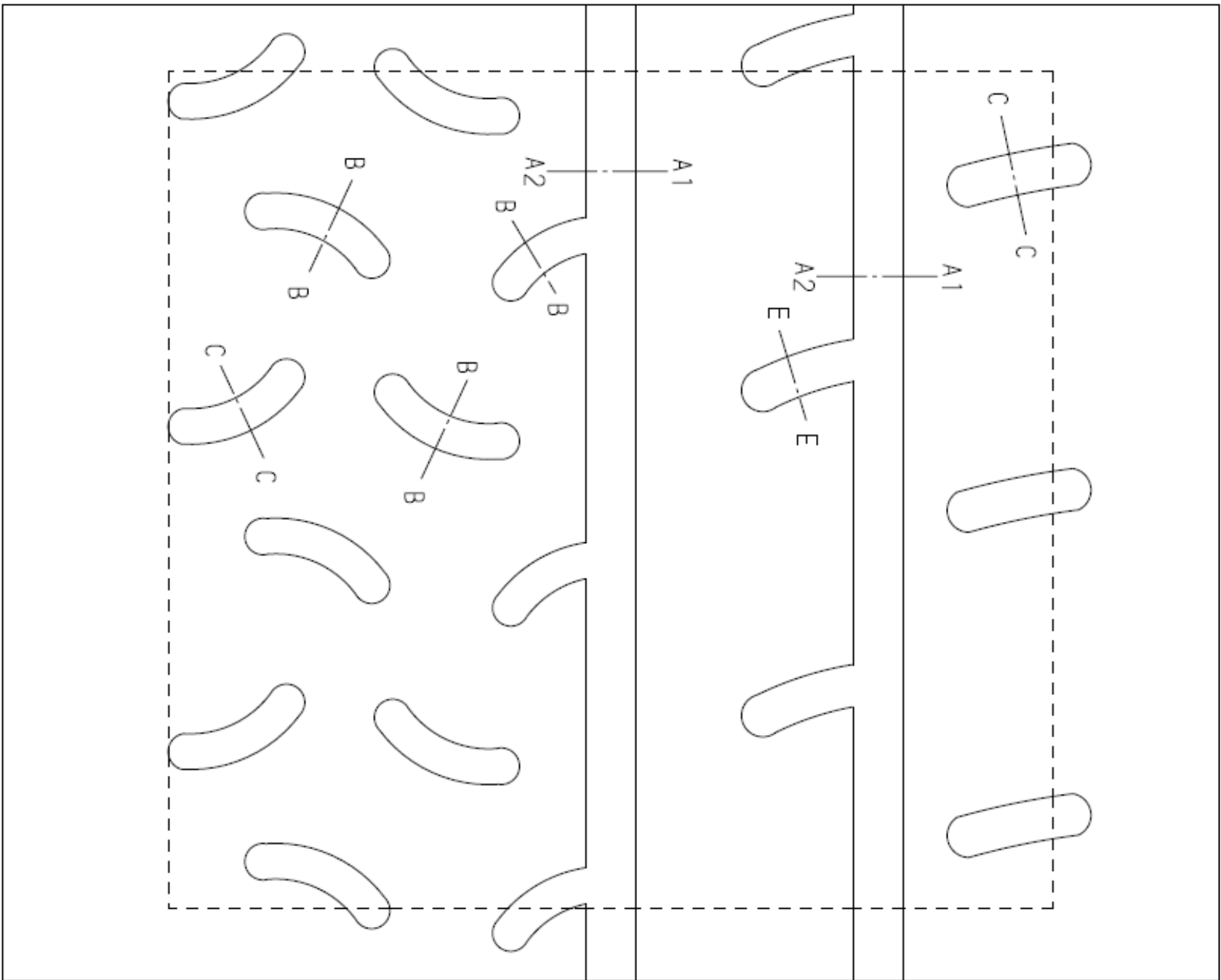
----- Control area 170X140

Tyre weight 9.7kg

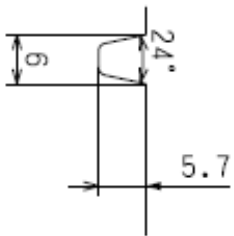
PRODUCT NAME
YOKOHAMA ADVAN A051T

PATTERN NAME
A051A

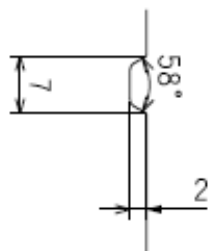
SIZE 210/650R18



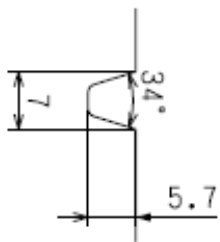
SEC. A1-A2



SEC. B-B



SEC. C-C



SEC. E-E

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

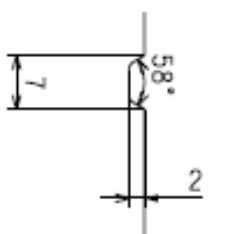
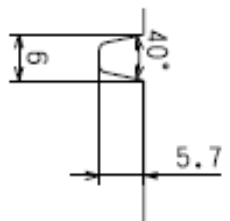
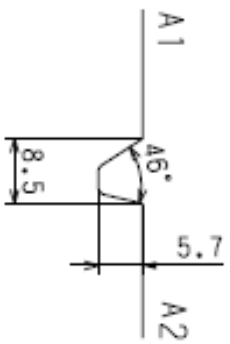
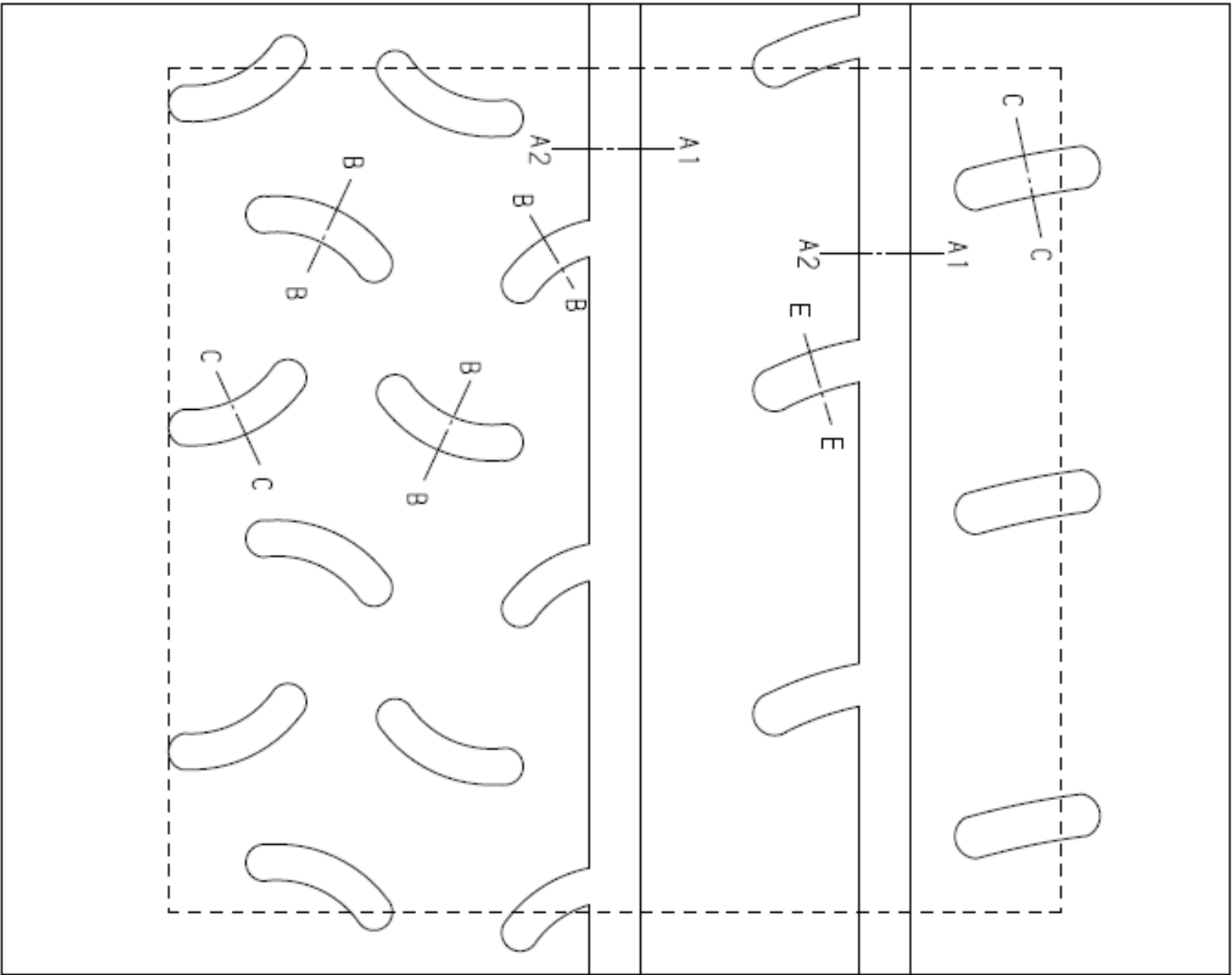
----- Control area 148X140

PRODUCT NAME
YOKOHAMA ADVAN A051T

PATTERN NAME
A051A

SIZE 190/625R17

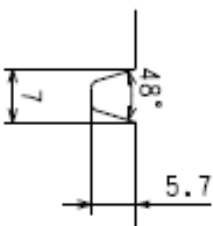
17" – 210/625-17



SEC. A1-A2

SEC. B-B

SEC. C-C



SEC. E-E

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

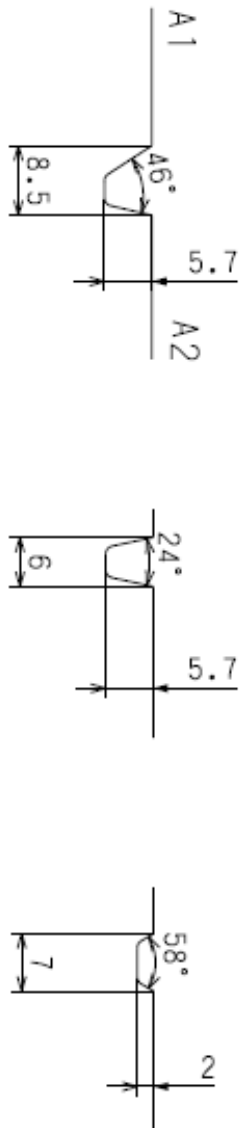
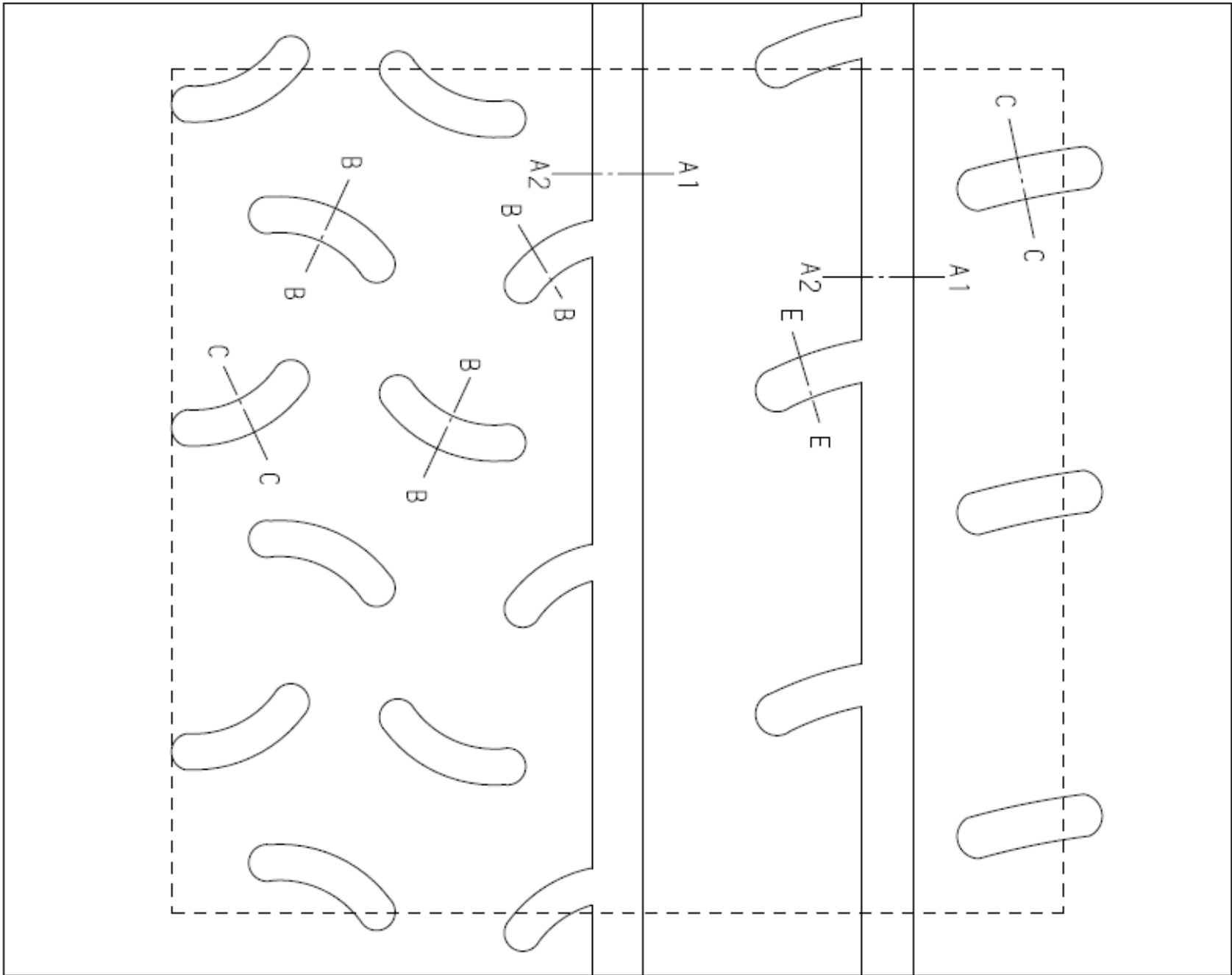
----- Control area 170X140

PRODUCT NAME
YOKOHAMA ADVAN A051T

PATTERN NAME
A051A

SIZE 210/625R17

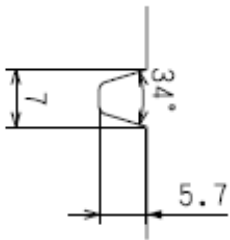
16" – 190/600-16



SEC. A1-A2

SEC. B-B

SEC. C-C



SEC. E-E

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

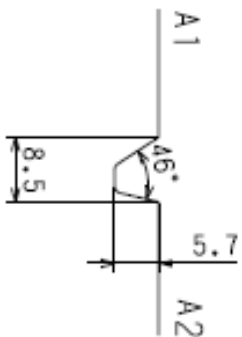
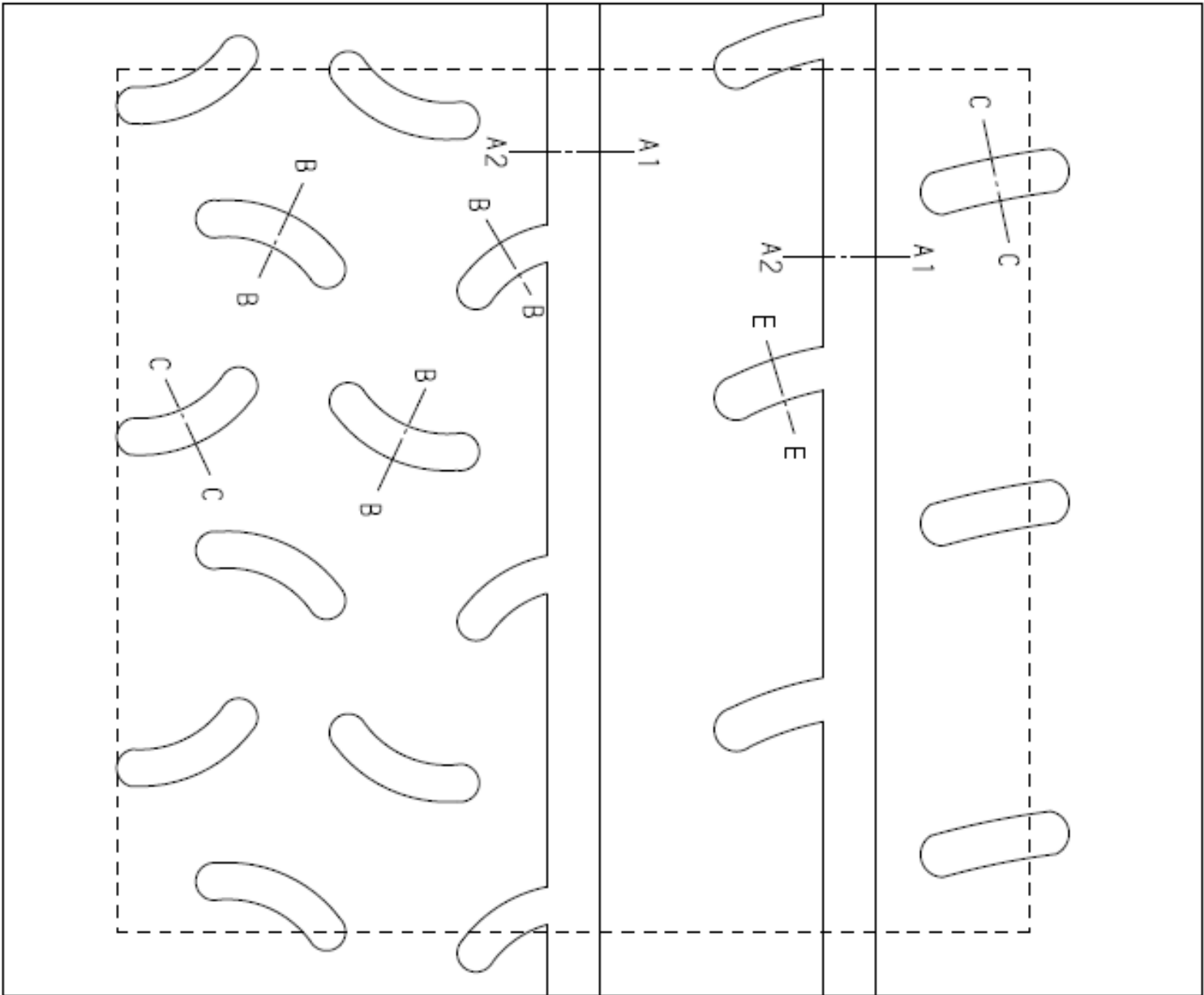
----- Control area 148X140

PRODUCT NAME
YOKOHAMA ADVAN A051T

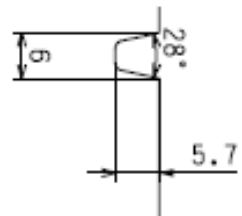
PATTERN NAME
A051A

SIZE 190/600R16

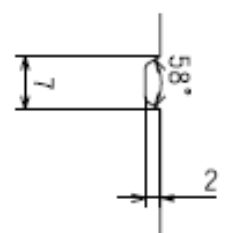
15" – 190/580-15



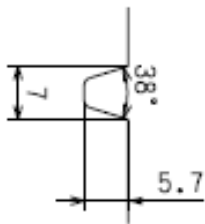
SEC. A1-A2



SEC. B-B



SEC. C-C



SEC. E-E

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

----- Control area 148X140

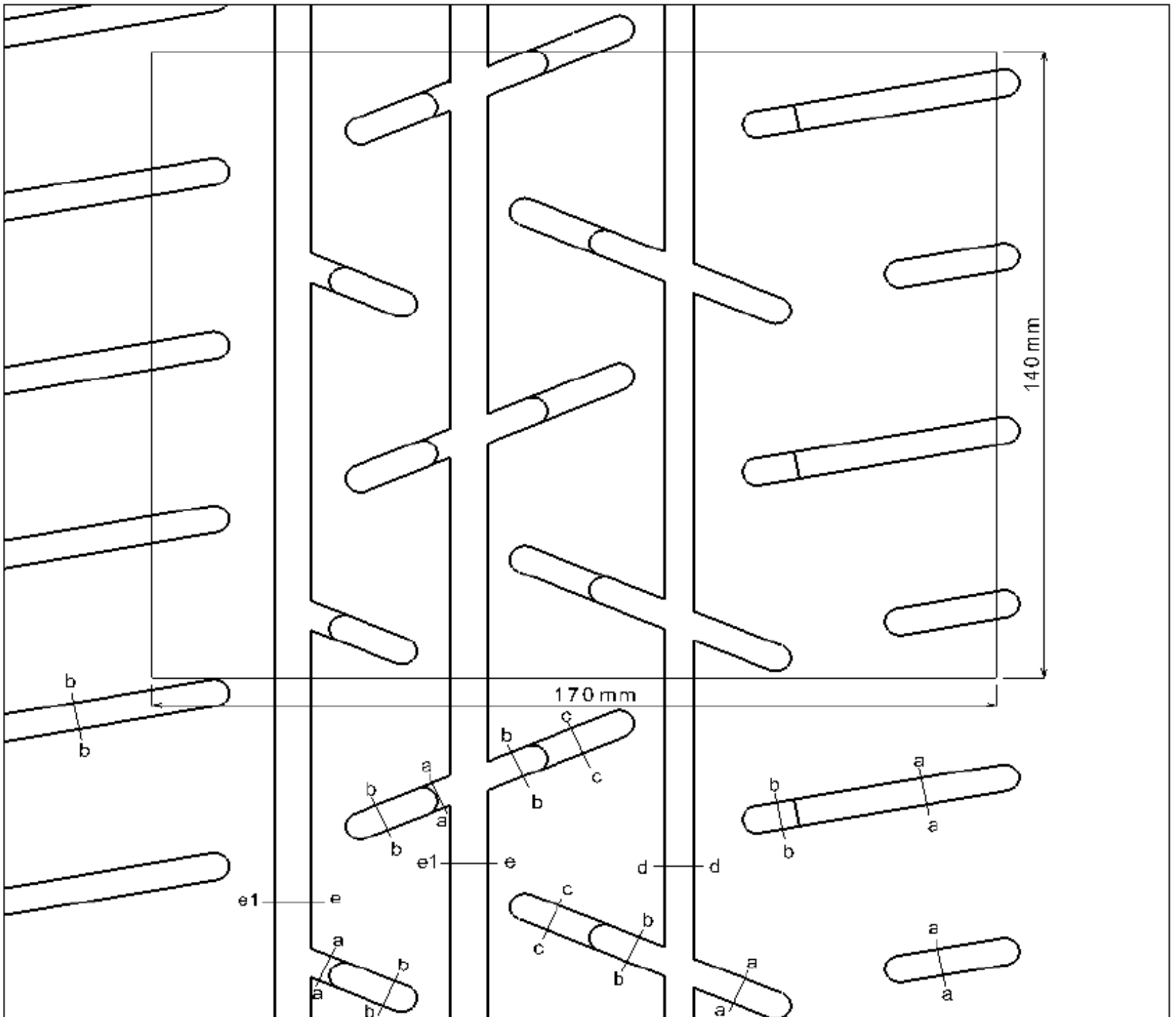
PRODUCT NAME
YOKOHAMA ADVAN A051T

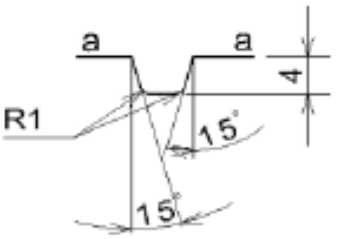
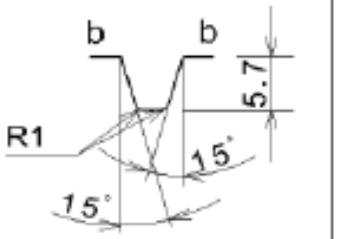
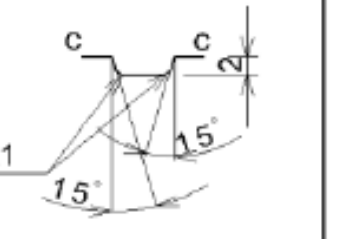
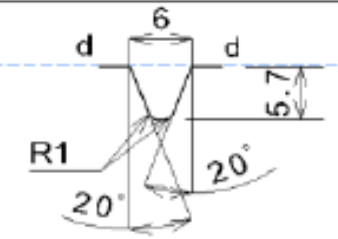
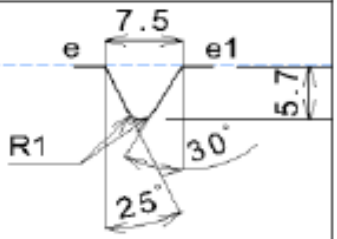
PATTERN NAME
A051A

SIZE 190/580R15

18" - 210/650R18

Product : Ventus Z205



Sec. a-a	Sec. b-b	Sec. c-c
		
Sec. d-d	Sec. e-e1	
		

Claass 9" (Rim 8")

Empty Depth > 5.5mm : 17.07%

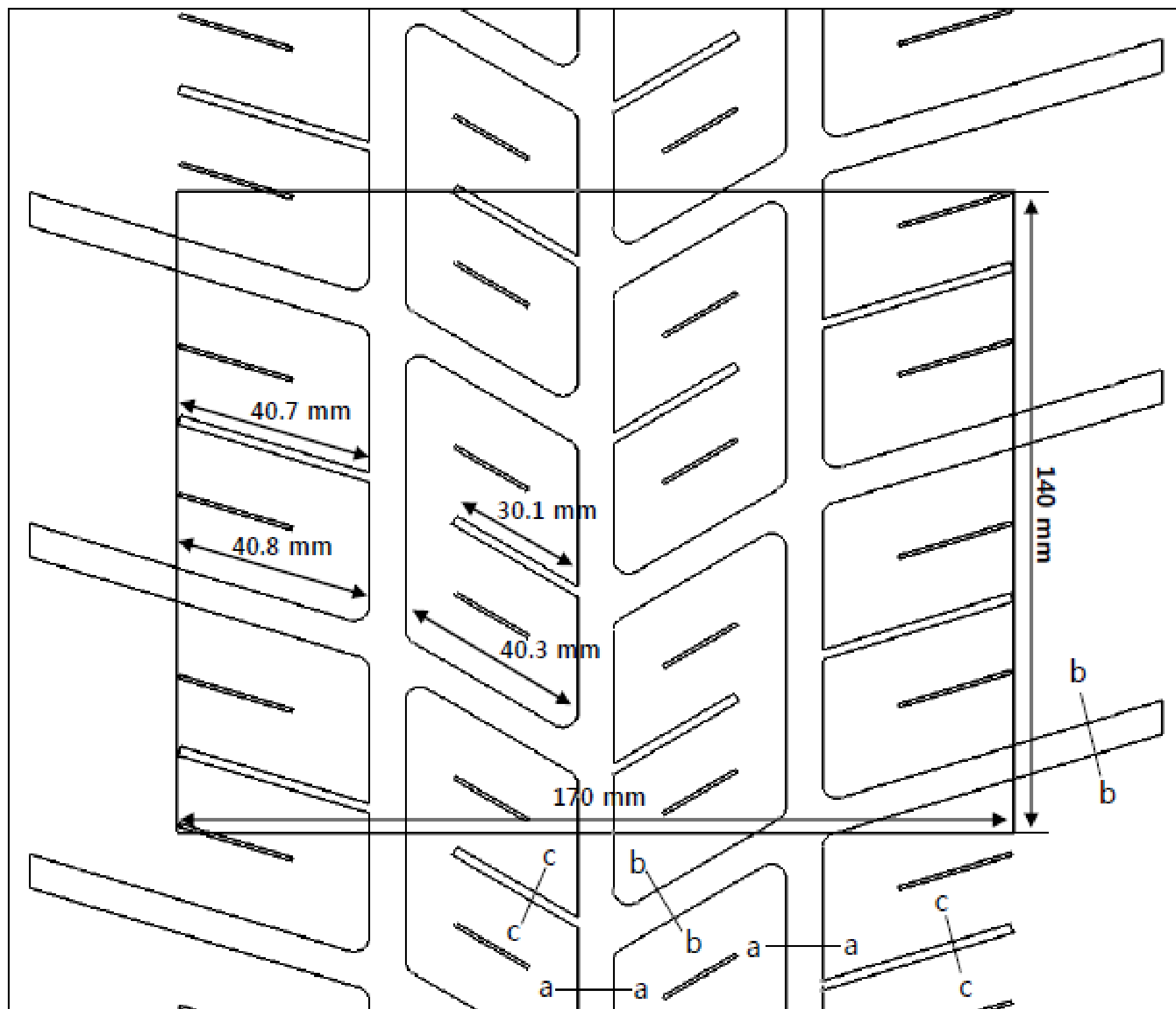
Empty Depth > 1.8mm : 23.30%

GROOVE SURFACE AREA = 554540 mm²

Control Surface = 23800 mm²

18" - 210/650R18

Product : Ventus Z210



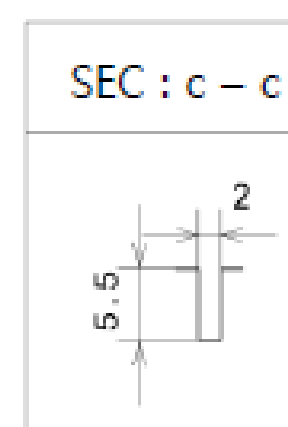
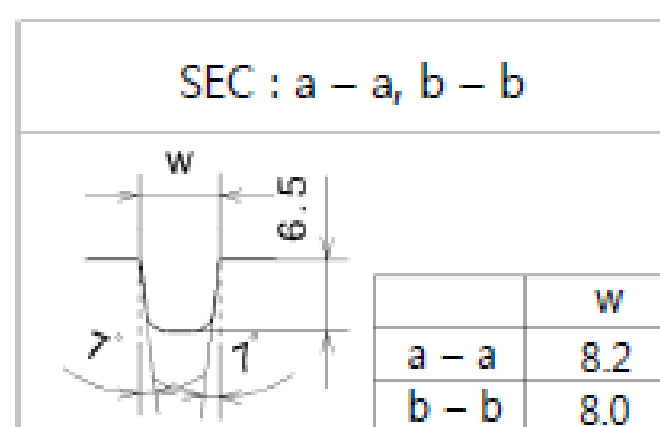
Class 9" (Rim 8")

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

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

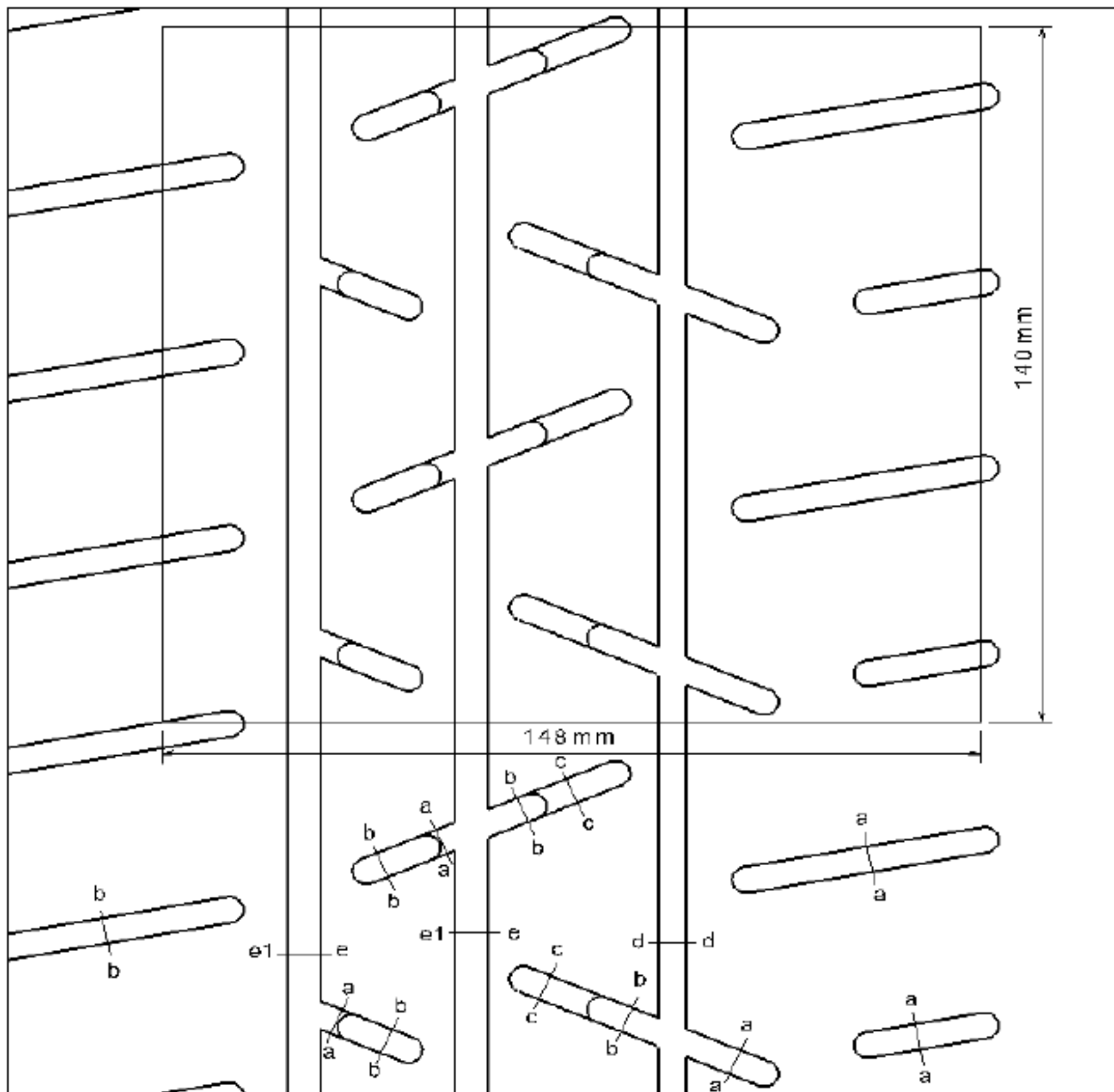
Empty Depth > 5.5mm : 27.5%

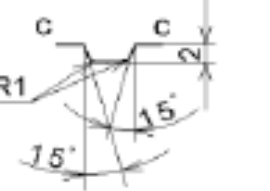
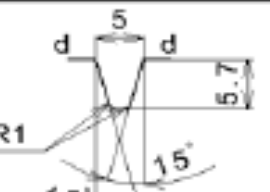
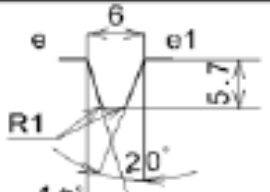
Control Surface = 23800 mm²



17" - 180/625R17

Product : Ventus Z205



Sec. a-a	Sec. b-b	Sec. c-c
		
Sec. d-d	Sec. e-e1	
		

Class 8" (Rim 7")

Empty Depth > 5.5mm : 17.06%

Empty Depth > 1.8mm : 22.48%

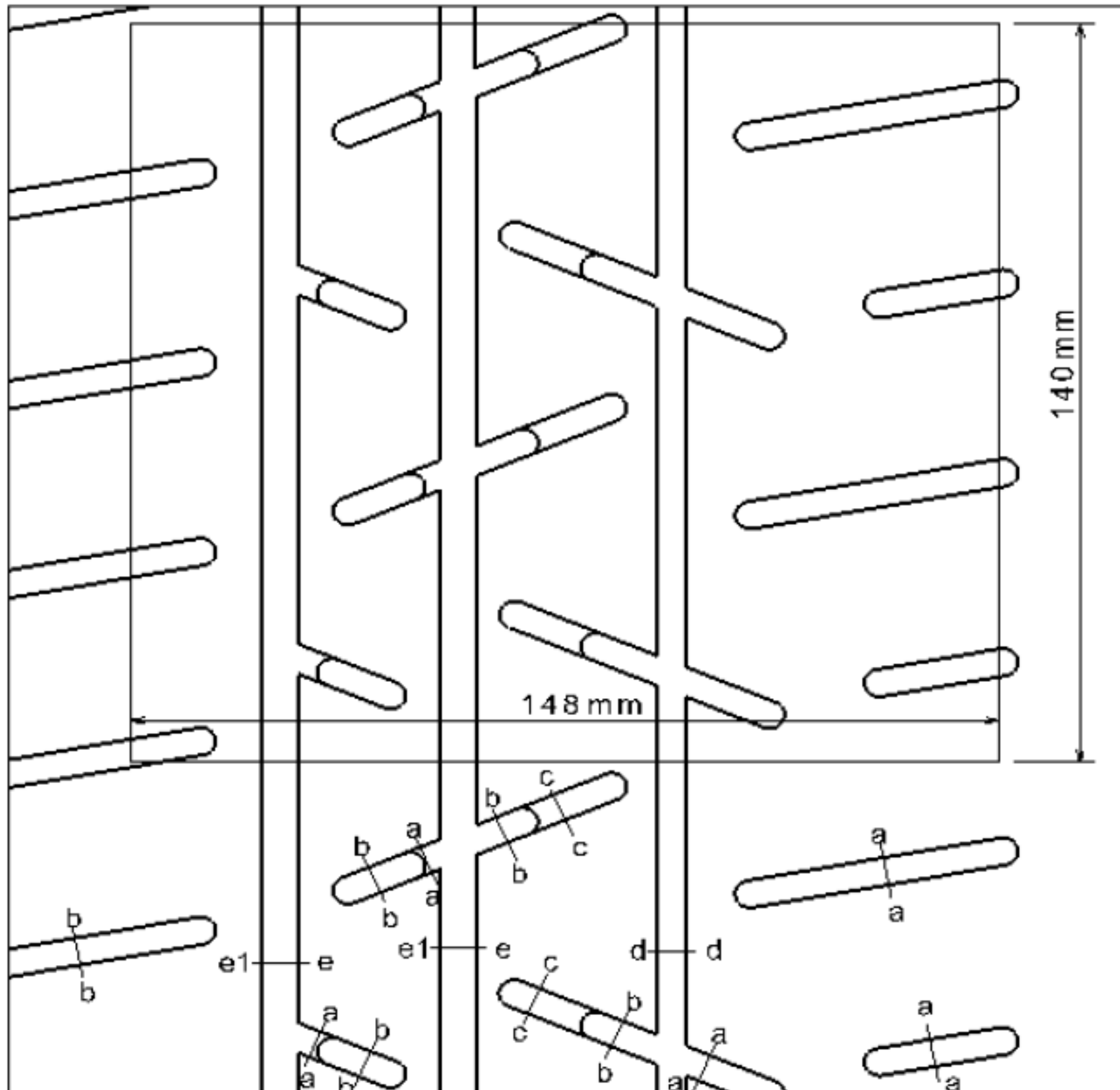
8

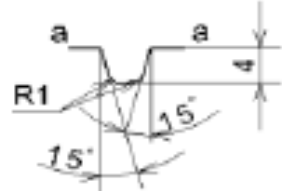
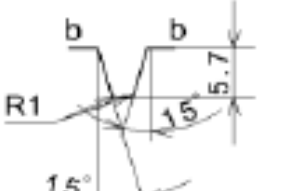
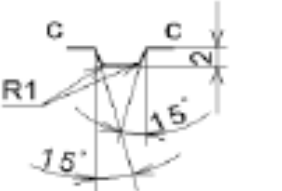
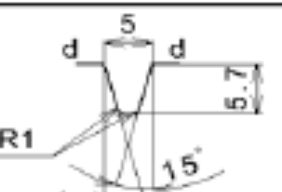
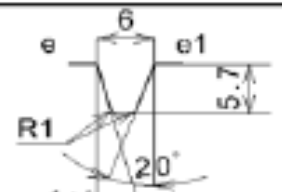
GROOVE SURFACE AREA = 353483.2 mm²

Control Surface = 20720 mm²

16" - 180/600R16

Product : Ventus Z205



Sec. a-a	Sec. b-b	Sec. c-c
		
Sec. d-d	Sec. e-e1	
		

Class 8" (Rim 6.5")

Empty Depth > 5.5mm : 17.30%

Empty Depth > 1.8mm : 22.95%

GROOVE SURFACE AREA = 358456 mm²

Control Surface = 20720 mm²

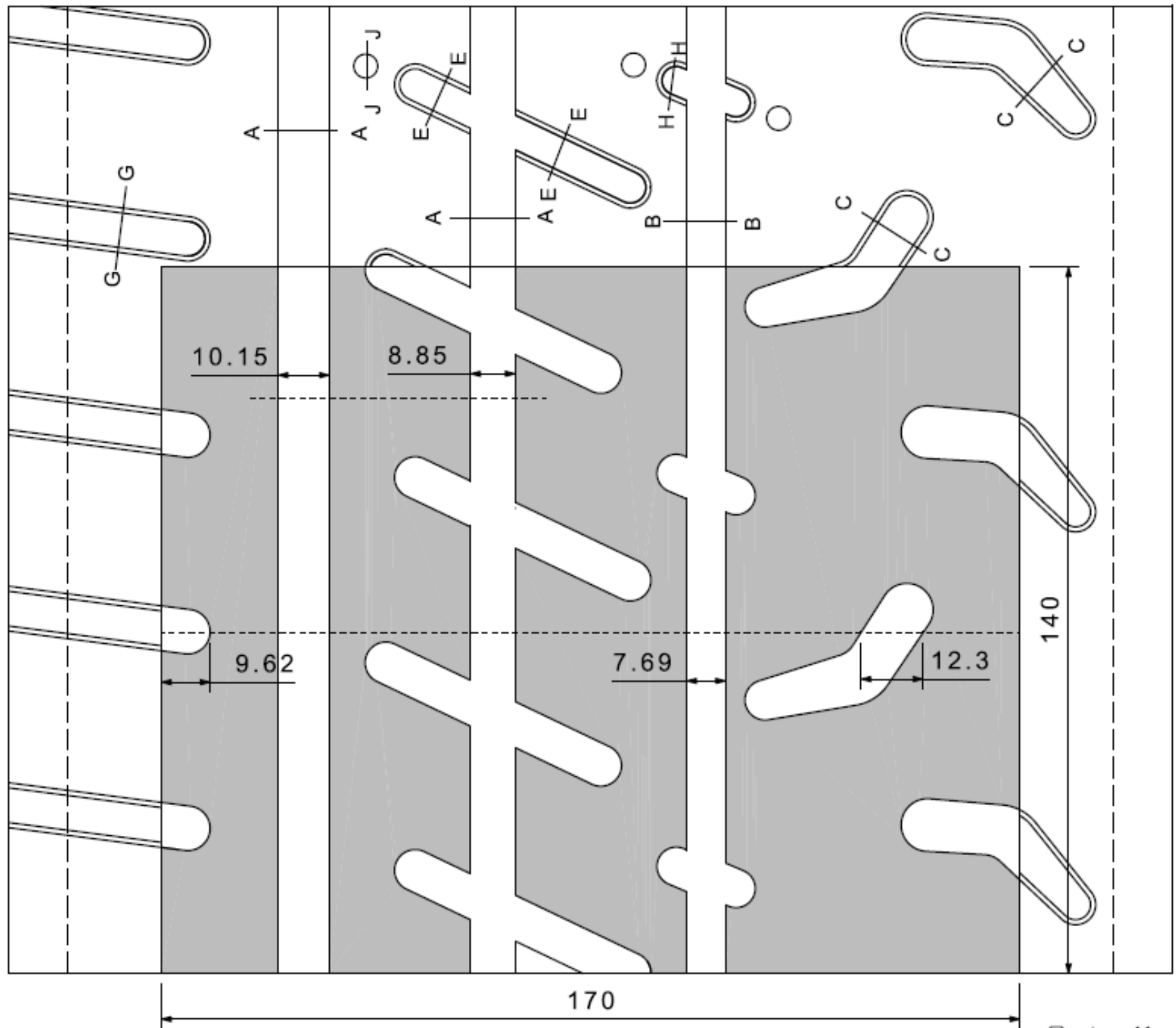
Moulded tyre for FIA homologation

Size : 210/645R18

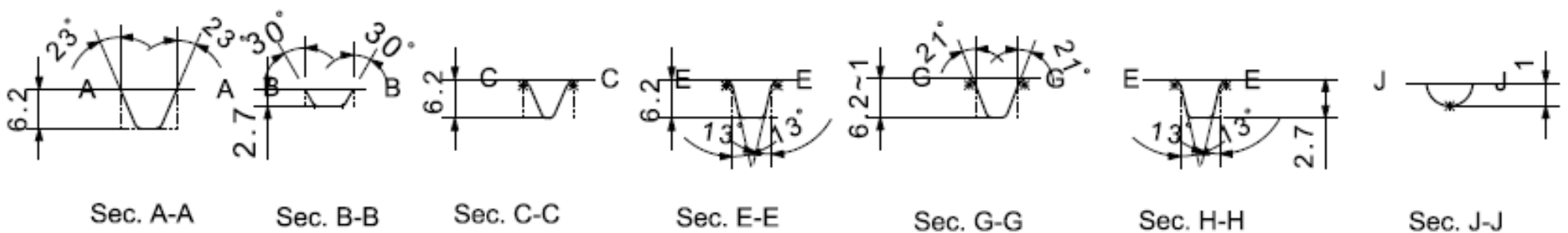
Pattern : TM01

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

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



Groove Area by 170 x 140 at least 1.8mm deep : 5815.4mm²
 Void % : 24.4%
 Groove Area by 170 x 140 at least 5.5mm deep : 4580.7mm²
 Void % : 19.2%



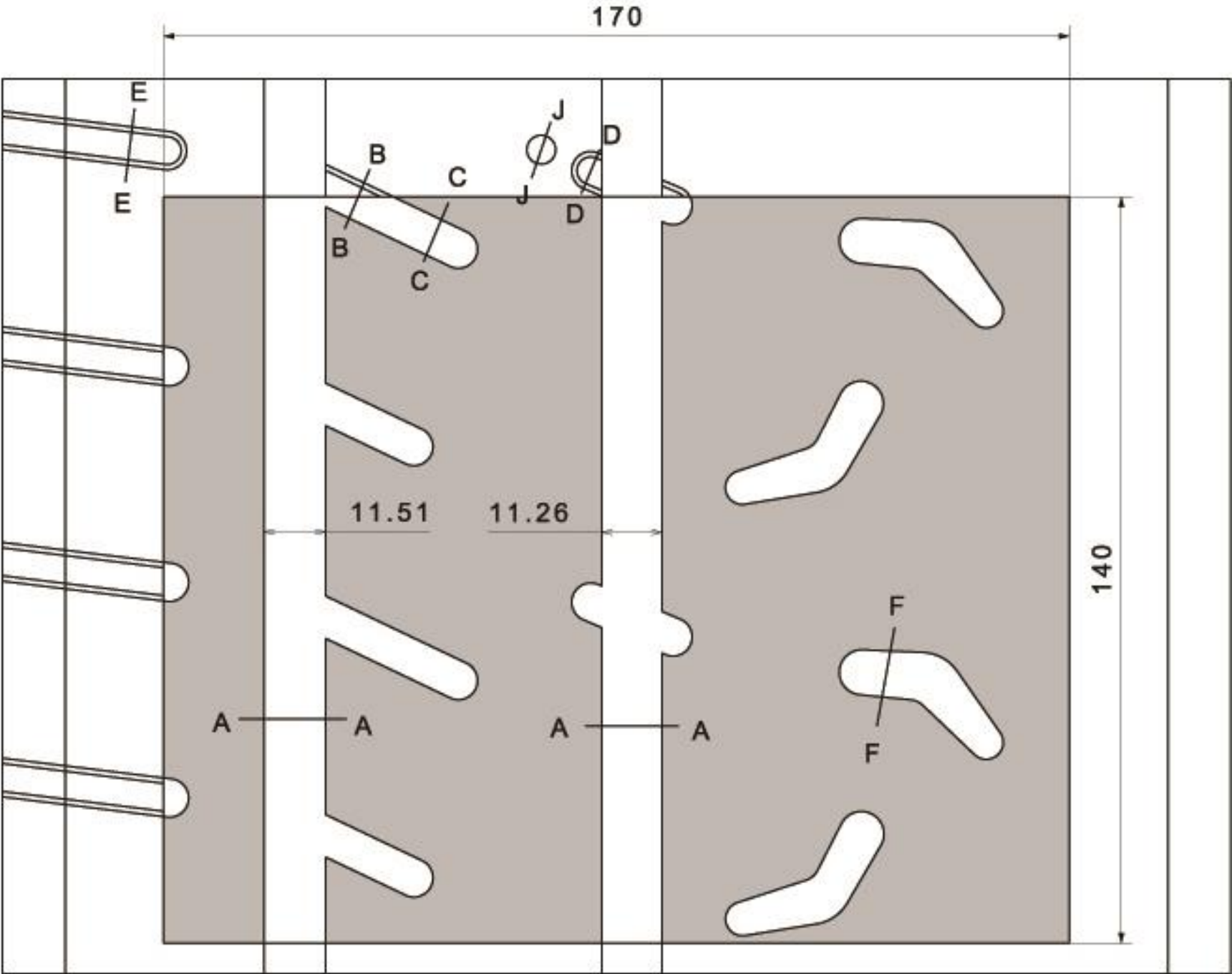
18" - 210/645R18

KUMHO TYRES

KUMHO TIRE

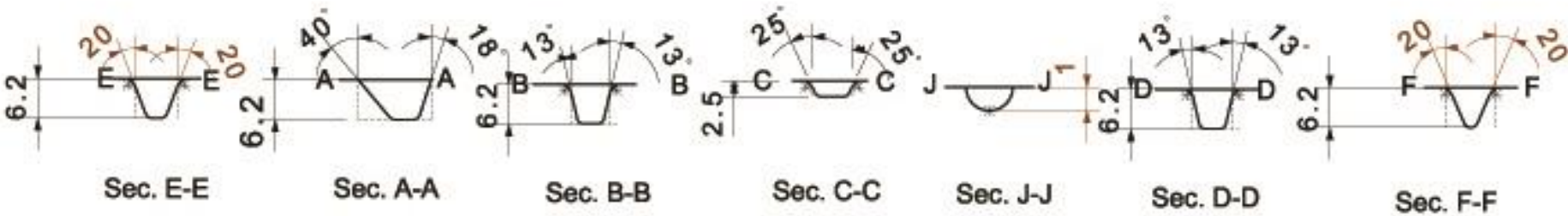
Moulded tyre for FIA homologation
Size : 210/645R18
Pattern : TM02

- On the basis of a tread pattern width of 170mm and circumference of 140mm
- The surface taken up by grooves at least 5.5 mm deep, with a maximum angle of 60° between the block in section and 2mm wide, must occupy at least 17% of the total surface.
 - The surface taken up by grooves at least 1.8 mm deep, with a maximum angle of 60° between the block in section and 2mm wide, must occupy at least 21.5% of the total surface.
 - The sum of the width of the grooves encountered by a radial line must be at least 16mm
 - At least 2 circumferential lines / Minimum total width of circumferential lines at least 12mm



Scale 1:1

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



18" - 210/645R18

KUMHO TYRES

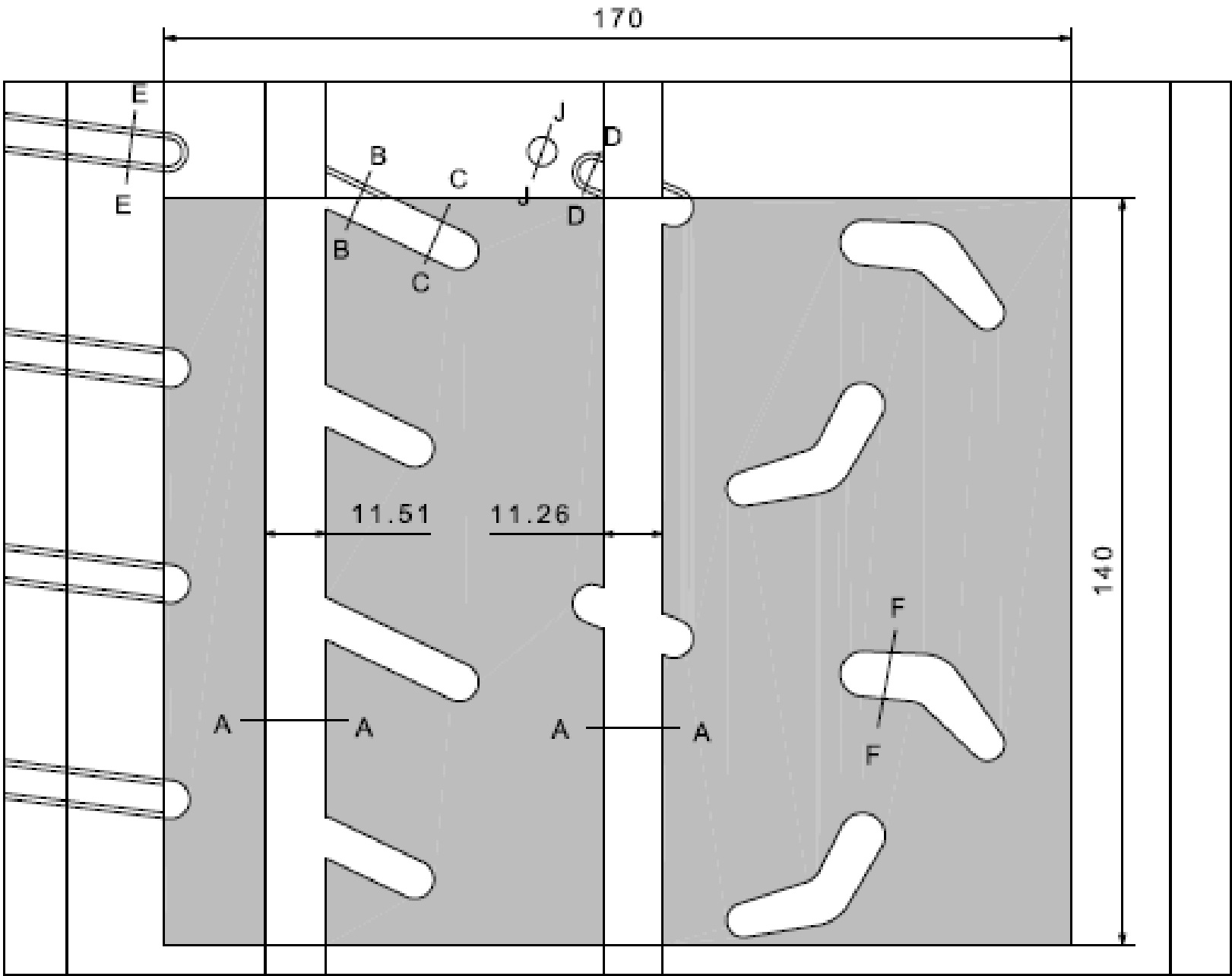


KUMHO TIRE



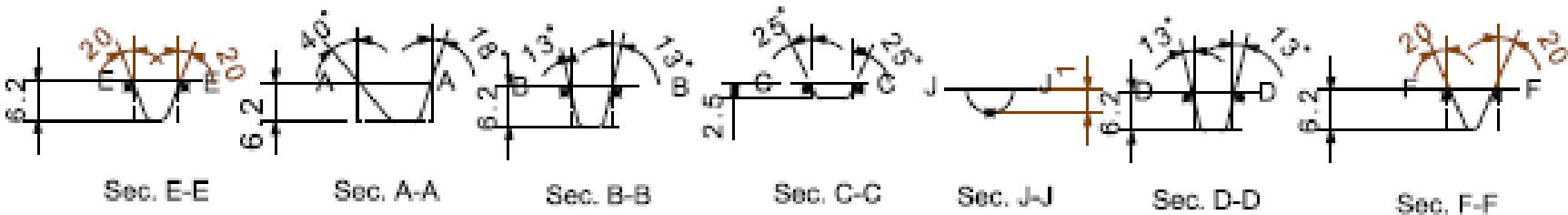
Moulded tyre for FIA homologation
Size : 210/645R18
Pattern : TM02

- On the basis of a tread pattern width of 170mm and circumference of 140mm
- The surface taken up by grooves at least 5.5 mm deep, with a maximum angle of 60° between the block in section and 2mm wide, must occupy at least 17% of the total surface.
 - The surface taken up by grooves at least 1.8 mm deep, with a maximum angle of 60° between the block in section and 2mm wide, must occupy at least 21.5% of the total surface.
 - The sum of the width of the grooves encountered by a radial line must be at least 16mm
 - At least 2 circumferential lines / Minimum total width of circumferential lines at least 12mm



Scale 1:1

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

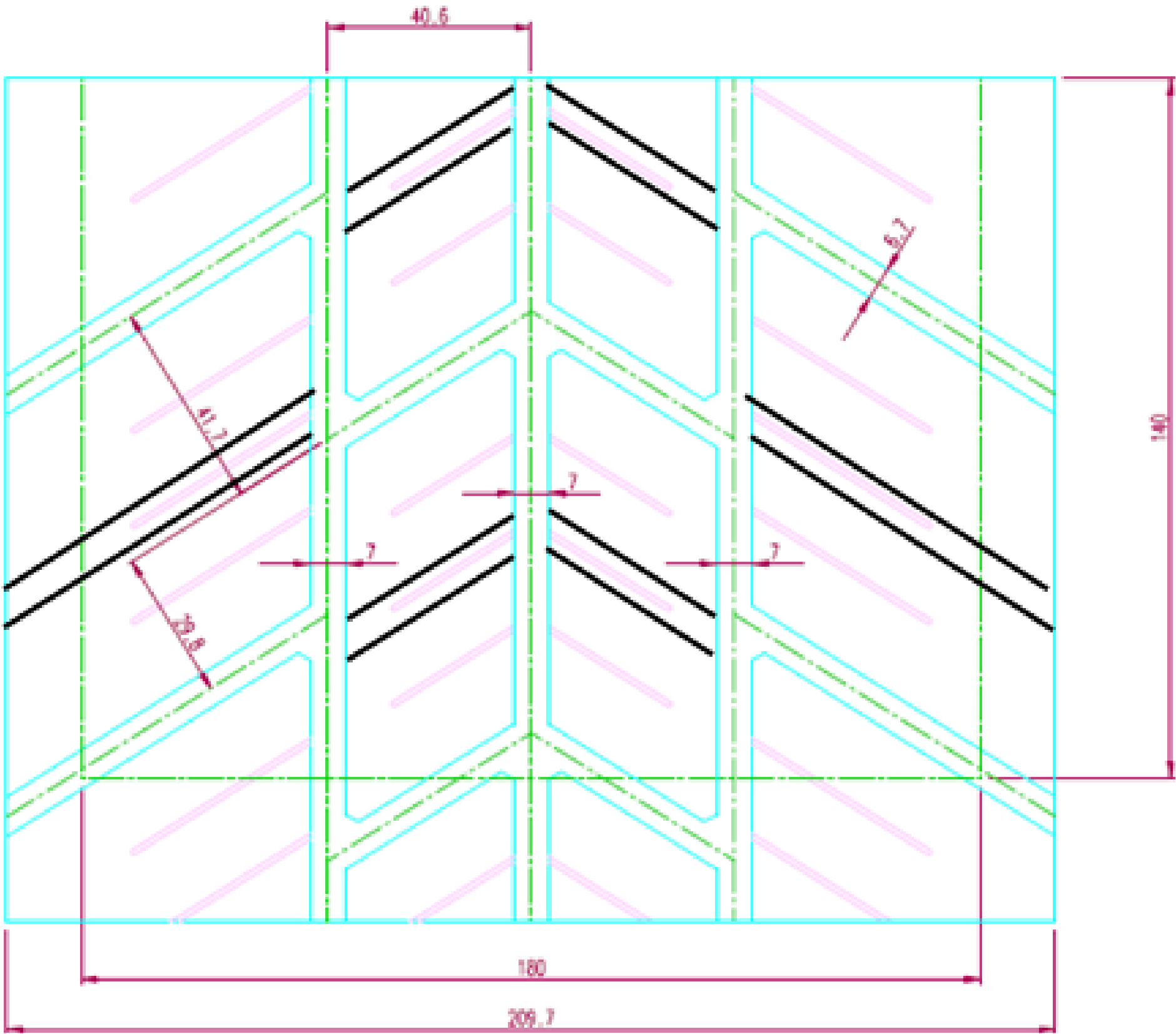


18” - 210/645R18

KUMHO TYRES

Valid until 31.12.2017

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



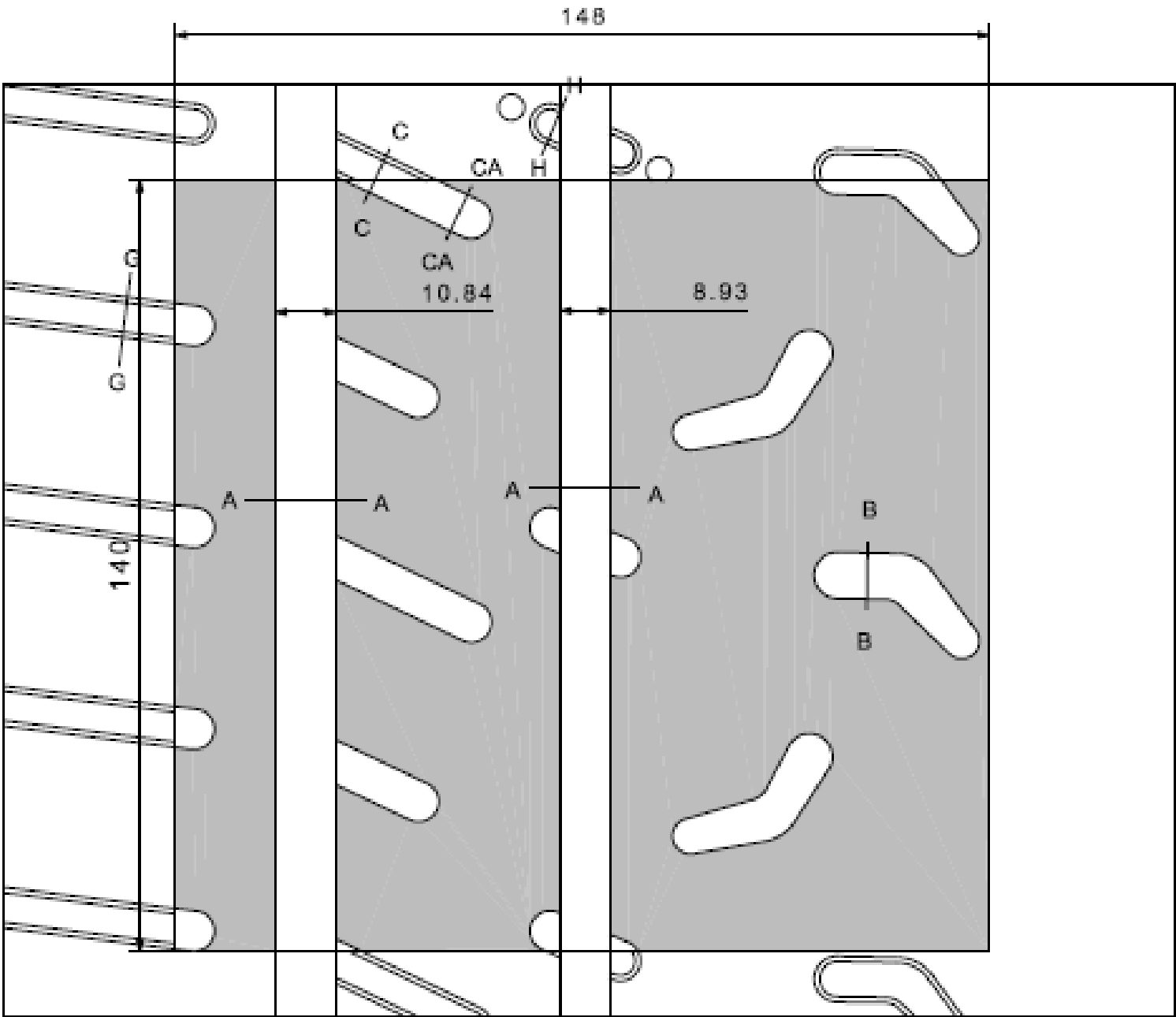
17" - 190/630R17

KUMHO TYRES

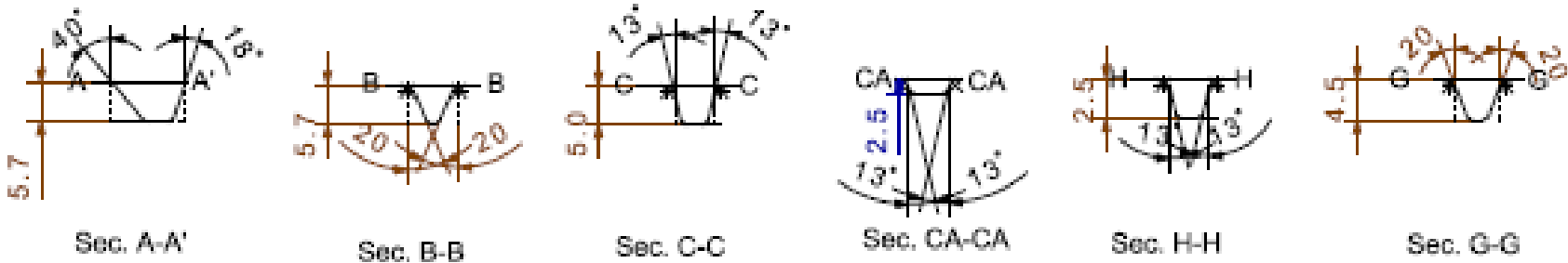
KUMHO TIRE

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%

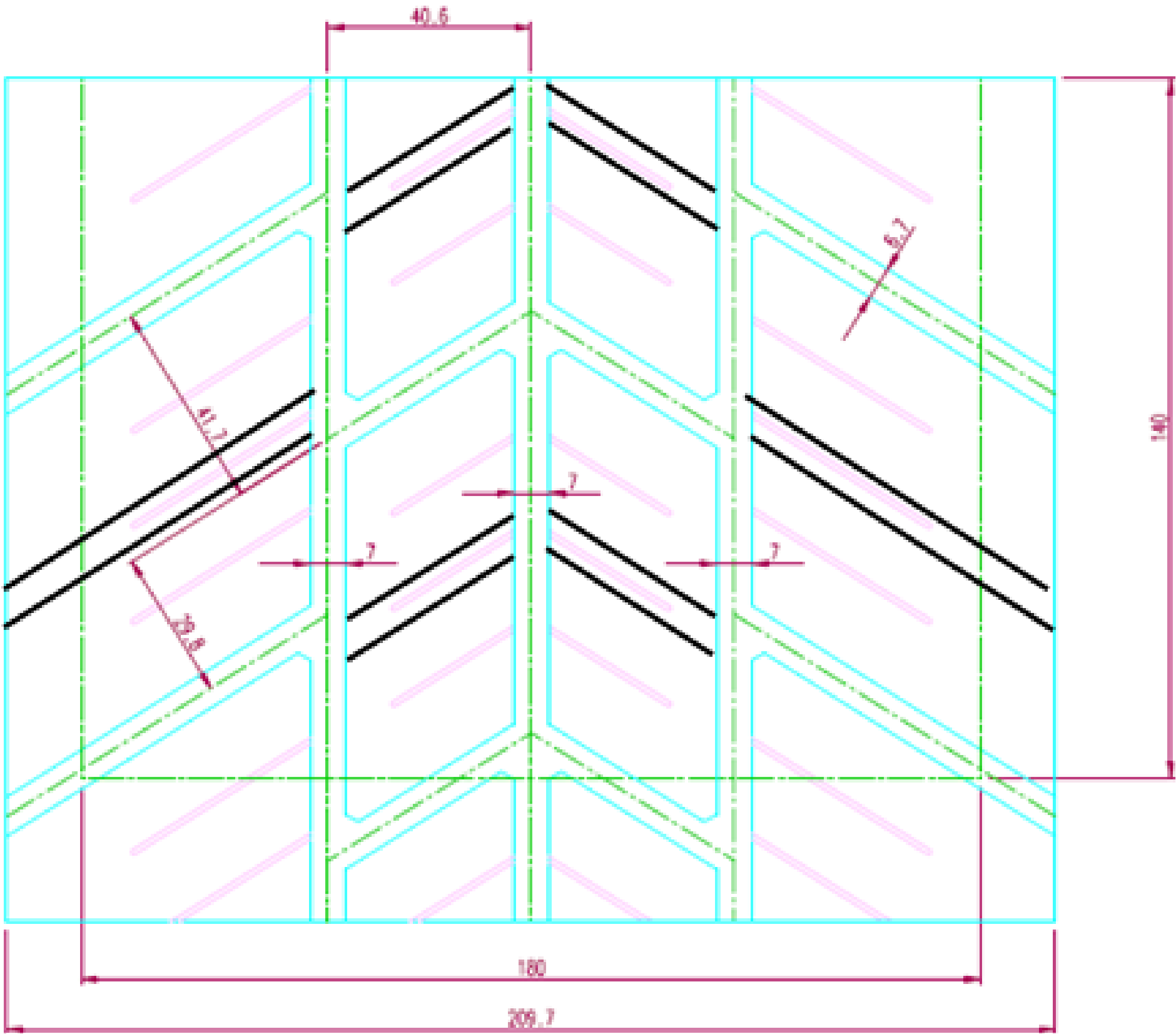


17" - 210/645R17

KUMHO TYRES

Valid until 31.12.2017

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



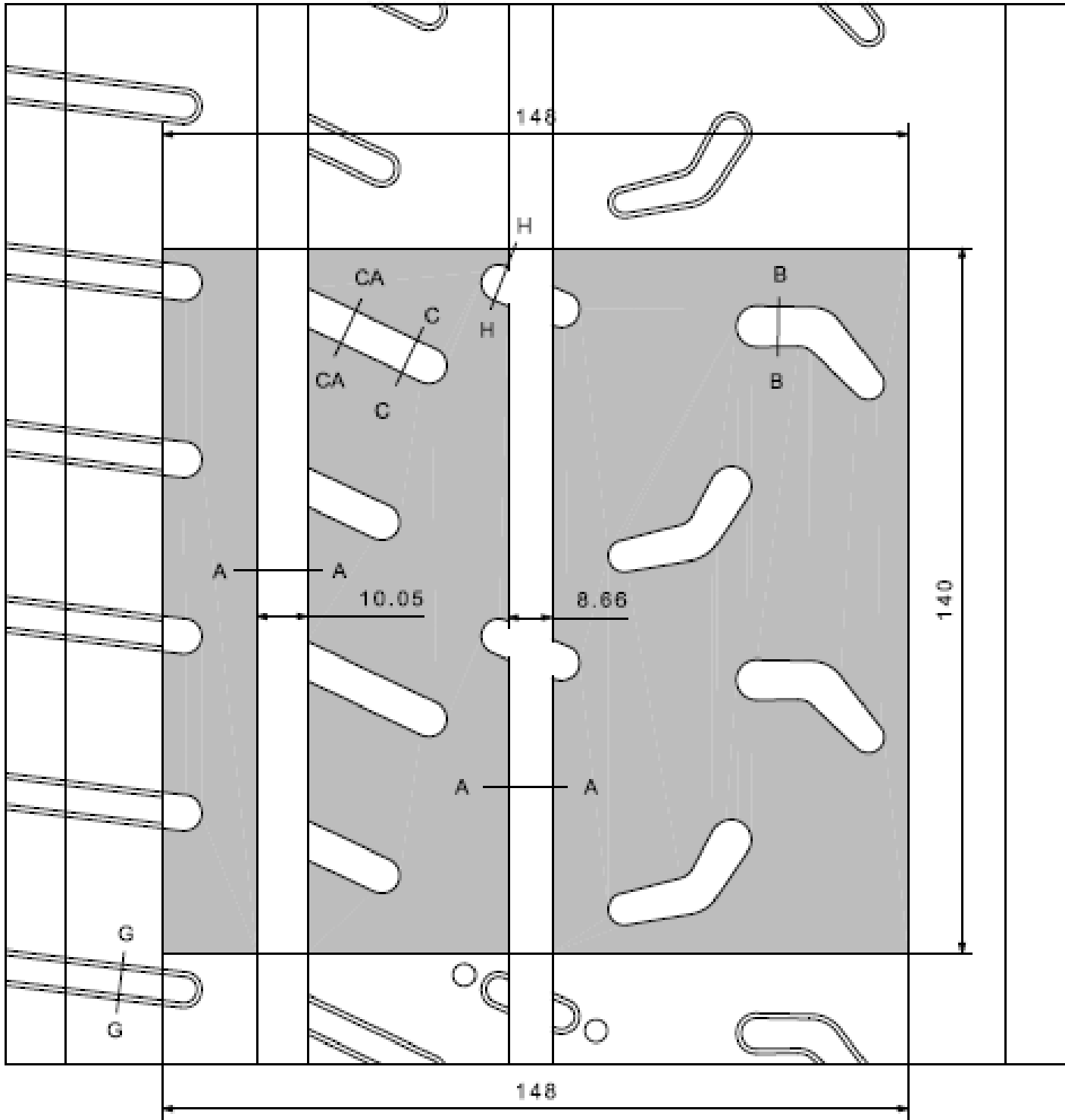
16" - 190/600R16

KUMHO TYRES

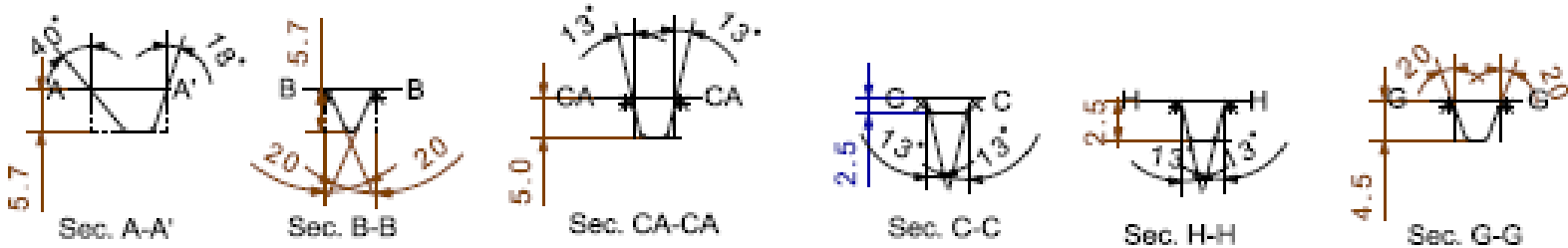
KUMHO TIRE

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 %



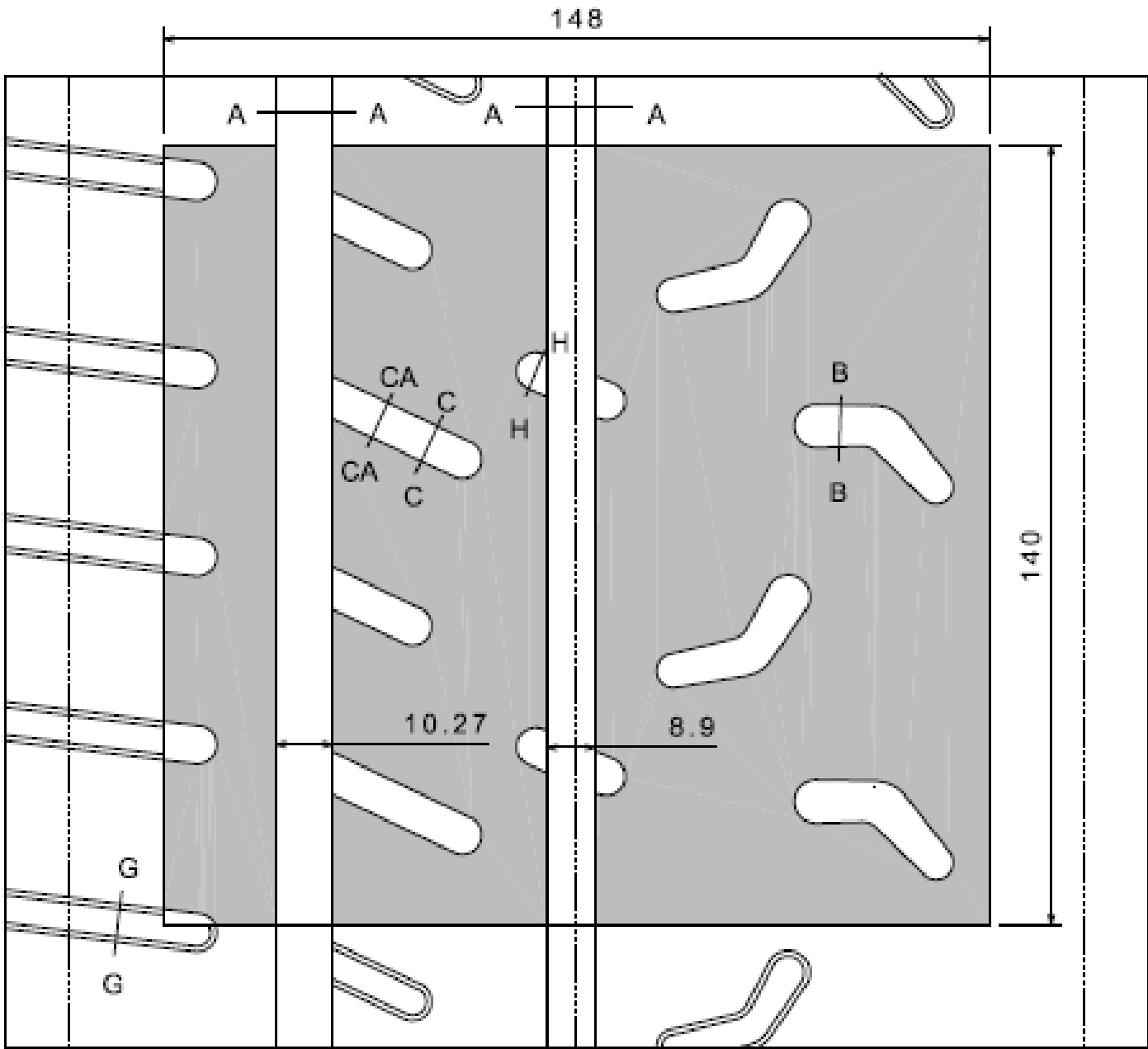


KUMHO TIRE



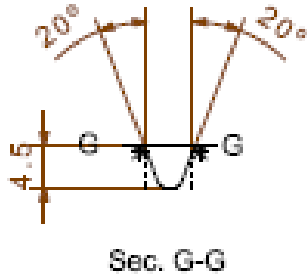
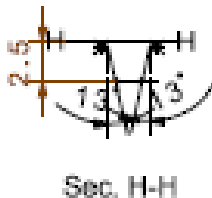
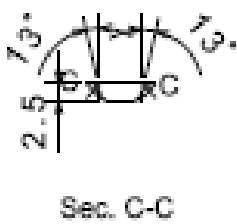
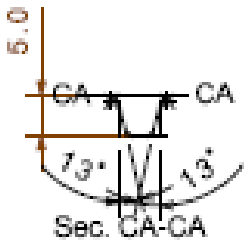
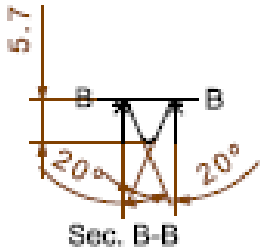
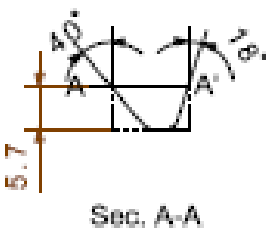
Moulded tyre for FIA homologation
Size : 180/580 R15
Pattern : TM02

- 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

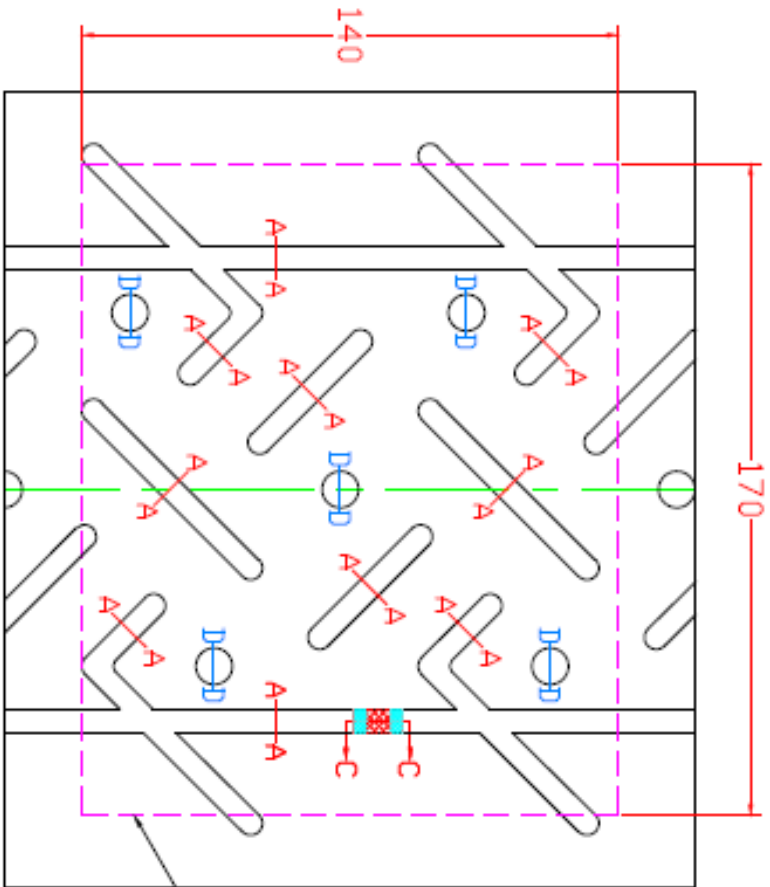


Scale 1:1

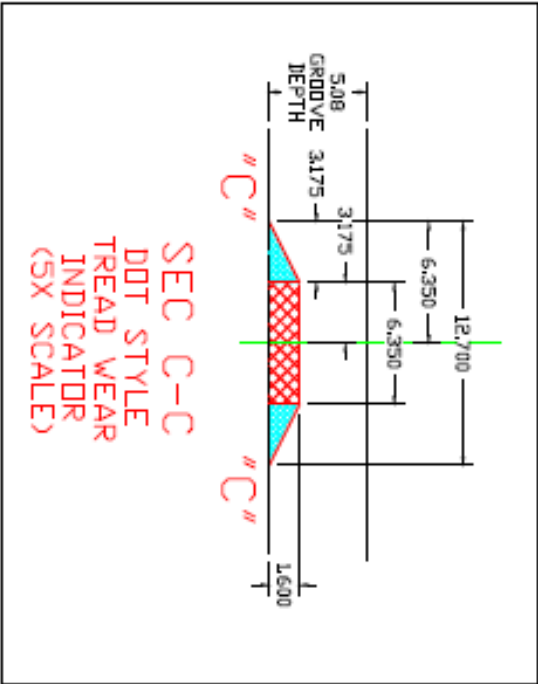
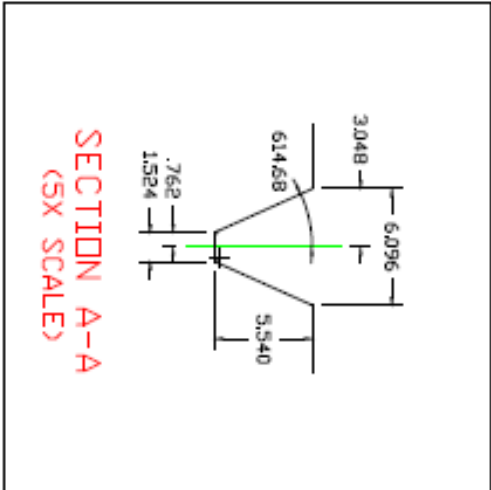
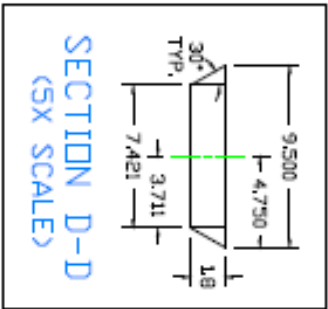
Groove Area by 148 x 140 at least 1.8mm deep : 4599.8mm²
Void % : 22.2%
Groove Area by 148 x 140 at least 5.5mm deep : 3563.8mm²
Void % : 17.2%



(UNITS = METRIC)



CONTROL SURFACE = 23,800mm²
GROOVES > 5.5mm = 4,797.71mm² = 20.16%
GROOVES ≥ 1.8mm = 5,152.09mm² = 21.65%



REV 1	-
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3RD ANGLE PROJECTION

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

Hoosier RACING TIRE CORP.
LAKEVILLE, INDIANA

F.I.A. COMPLIANCE FOR *200/650R18*

ROAD RALLY

S/N 4770

DRAWN BY	TMC	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	YES	FULL	YES	FULL	YES

SHEET 2 OF 2