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Art. 1 - VIATURAS ADMITIDAS

As constantes no quadro seguinte detentoras de ficha de homologação FIA / FPAK e suas extensões, válidas para o ano em curso.

VIATURAS ADMITIDAS NO CAMPEONATO NACIONAL de RALIS 2017						
Grupo	Descritivo			Regulamento	Peso Min (Kg)	Bride Max. (mm)
RC2	R5 (VR5)			Art. 261 - Anexo J	1230	32
	S2000 (2.0 atmosférico)			Art. 254A - Anexo J 2013	1200	64 ± 0.25
RC2N	R4 (VR4) não elegível para provas internacionais FIA (Europa)			Art. 260 - Anexo J	1300	33
	Grupo N + de 2000 cm ³			Art. 254 - Anexo J	FH *	- / 33
RGT	R - GT (FIA)			Art. 256 - Anexo J	PT RGT (FIA) **	PT RGT (FIA) **
	GT Rali			a) - FH	a)	-
RC3	Grupo A + de 1600 cm ³ a 2000 cm ³			Art. 255 - Anexo J	Art. 255-4.1	- / 34
	S1600			Art. 255 - Anexo J	1000	60 ± 0.25
	R2 (VR2C)	Atmosf. (cm ³ / nominal)	Turbo (cm ³ / nominal)	Art. 260 - Anexo J	1080	-
	R3 (VR3C)	+ 1600 a 2000	+ 1067 a 1222			-
	R3 (VR3T) Turbo até 1620 cm ³ nominal			Art. 260D - Anexo J	1080	29
	R3 (VR3D) Turbo até 2000 cm ³ nominal				1150	32
RC4	Grupo A até 1600 cm ³			Art. 255 - Anexo J	Art. 255-4.1	-
	R2 (VR2B)	Atmosf. (cm ³ / nominal)	Turbo (cm ³ / nominal)	Art. 260 - Anexo J	1030	-
		+ 1390 a 1600	+ 927 a 1067			
	Kit Car até 1600 cm ³			Art. 255 - Anexo J	Art. 255-6.2	-
Grupo N: + de 1600 cm ³ até 2000 cm ³			Art. 254 - Anexo J	FH *	-	
RC5 ¹⁾	Grupo N até 1600 cm ³			Art. 254 - Anexo J	FH *	-
	R1 (VR1A)	Atmosf. (cm ³ / nominal)	Turbo (cm ³ / nominal)	Art. 260 - Anexo J	980	-
		Até 1390	Até 927			
	R1 (VR1B)	Atmosf. (cm ³ / nominal)	Turbo (cm ³ / nominal)		1030	-
+ 1390 a 1600		+ 927 a 1067				

* conforme o peso mencionado na ficha de homologação

** conforme passaporte técnico RGT (FIA)

a) conforme regulamentação própria RGT e Ficha Homologação

1) São autorizadas também viaturas que disponham de Fichas de Homologação Nacional (FH) FPAK ou de outra ADN

Art. 2 - PESOS

2.1 - O peso mínimo da viatura é considerado: sem 1º condutor e 2º condutor/navegador, sem o respetivo equipamento e com no máximo uma roda sobressalente, conforme quadro acima.

No caso em que duas rodas sobressalentes são transportadas na viatura, a segunda roda deverá ser retirada antes de efetuar a pesagem.

2.2 - O peso mínimo da viatura nas condições do Art. 255-4.1, quando com a equipa a bordo (piloto + copiloto + equipamento completo) é definido pelo quadro acima +160 Kg.

Para S1600 e Kit-car até 1600 cm³, é definido pelo quadro acima +150 Kg.

2.3 - A utilização de lastro é autorizada de acordo com o Art. 252-2.2 do Anexo J.

Art. 3 - EQUIPAMENTO SEGURANÇA

3.1 - Viatura - conforme o disposto no Art. 253 do Anexo J.

3.2 - 1º condutor e 2º condutor/navegador

3.2.1 - Capacetes - com homologação válida e em conformidade com o disposto pelo Anexo L ao CDI, Capítulo III - Art. 1. Normas FIA standard (lista técnica FIA nº 25) e/ou normas FIA 8860-2004 ou FIA 8860-2010 (lista técnica FIA nº33), FIA 8858 (lista técnica FIA nº 41) e FIA 8859 (lista técnica FIA nº49).

3.2.2 - Fato de competição, roupa interior; balaclava; luvas e sapatos - com homologação válida e em conformidade com o disposto pelo Anexo L ao CDI, Capítulo III Art. 2 - norma FIA 8856-2000 (lista técnica FIA nº 27). Não é obrigatório o uso de luvas para o copiloto.

3.2.3 - Sistema de retenção de cabeça (HANS) - com homologação válida e em conformidade com o disposto pelo Anexo L ao CDI, Capítulo III - Art. 3. Normas FIA 8858-2002 e/ou FIA 8858-2010 (lista técnica FIA nº 29).

Art. 4 - PNEUS

4.1 - Roda de reserva - em cada prova será obrigatória a instalação de pelo menos um pneu suplente devidamente fixado no carro, controlável em qualquer momento da prova.

4.2 - Tipo de pneus a utilizar nas Super Especiais (SE) - os pneus a utilizar nas SE, serão obrigatoriamente do mesmo tipo de piso que corresponda ao das restantes PEC's que integrem essa Prova, conforme Art. 13.7.3 das PER.

4.3 - Para asfalto - é proibido o uso de pneus *slick* conforme Art. 13.3 das PER.

É obrigatório a utilização de pneus *moulés* (moldados) em conformidade com a lista, constante no (Anexo I) e cujo desenho do piso é apresentado no (Anexo II) abaixo.

A lista dos pneus homologados pode sofrer alterações e/ou atualizações.

Todos os pneus devem estar em conformidade com o anexo V das Prescrições Específicas dos Campeonatos de Ralis FIA **e apresentarem os códigos de barras de identificação FIA.**

É proibido utilizar qualquer dispositivo para aquecer os pneus depois de montados nas suas jantes.

É proibido alterar o desenho original do piso quer seja por corte ou recorte (consultar anexo II).

4.4 - Para terra - os pneus de terra são livres contudo não é permitido alterar o desenho original do piso quer seja por corte ou recorte **e apresentarem os códigos de barras de identificação FIA.**

4.5 - Dispositivo que permite o pneu conservar a sua performance - é proibido a utilização de qualquer dispositivo que permita regular a pressão dos pneus, aquando da viatura em movimento.

4.6 - Marcação / Limite a utilizar

- os pneus são marcados e limitados a um máximo por prova de até oito novos + dois usados (**marcados** em provas anteriores).

- na primeira prova de cada piso (asfalto ou terra) são autorizados dez pneus novos que serão objeto de marcação, em vez dos dois usados.

- exclusivamente para as Super Especiais das provas em piso de terra, os pneus utilizados não são marcados.

4.6.1 - Provas Internacionais - que integram o CNR nestas o procedimento, para a marcação de pneus segue a regulamentação própria dos campeonatos onde se inserem.

Art. 5 - CÂMARAS FILMAR

5.1 - Instalação - a instalação da (s) câmara (s) de filmar tem de estar em conformidade com o disposto no menu Técnica → (Listas Técnicas) → Câmaras de Filmar, no site da FPAK.

ACTUALIZAÇÕES

Art. / Data	Estado	Art. / Data	Estado	Art. / Data	Estado
4.3 - 07.03	Actualizado	4.4 - 07.03	Actualizado	Anexo I - 07.03	Novo
Anexo II - 07.03	Novo	Anexo I - 05.04	Actualizado	Anexo II - 05.04	Actualizado
4.6 - 03.05	Actualizado				

07.03	4.3 - Para asfalto - (...) Todos os pneus devem estar em conformidade com o anexo V das Prescrições Específicas dos Campeonatos de Ralis FIA. É proibido utilizar qualquer dispositivo para aquecer os pneus depois de montados nas suas jantes. (...)
07.03	4.4 - Para terra - os pneus de terra são livres contudo não é permitido alterar o desenho original do piso quer seja por corte ou recorte.
05.04	ANEXOS I e II - Actualizados com a introdução de novos pneus.
03.05	4.6 - Marcação / Limite a utilizar - os pneus são marcados e limitados a um máximo por prova de até <u>oito novos + dois usados</u> em provas anteriores). (...)
31.08	ANEXOS I e II - Actualizados com a introdução de novos pneus.

ANEXO I
PNEUS DE ASFALTO SEGUNDO LISTA CNR 2017

MICHELIN		
JANTE	MEDIDA	TIPO
15"	19 / 58 -15	Pilot Sport R
16"	19 / 60 -16	Pilot Sport R
17"	19 / 63 -17	Pilot Sport R
18"	20 / 65 -18	Pilot Sport R
18"	18/ 65 - 18	Pilot Sport FW3
18"	24 / 65 -18	Rally Asphalt - RGT-FIA(frt.drt)
18"	24 / 65 -18	Rally Asphalt - RGT-FIA(frt.esq)
18"	29 / 65 -18	Rally Asphalt - RGT-FIA(tras drt)
18"	29 / 65 -18	Rally Asphalt - RGT-FIA(tras esq)
DMACK		
14"	175 / 60-14	DMT-RC
15"	195 / 50-15	DMT-RC
15"	195 / 50-15	DMT-RC2
16"	195 / 50-16	DMT-RC
16"	195 / 50-16	DMT RC2
17"	195 / 50-17	DMT-RC
17"	205 / 45-17	DMT-RC2
17"	225 / 45-17	DMT-RC
18"	225 / 40-18	DMT-RC2
18"	225 /40-ZR18	DMT-RC
18"	225 / 40-18	DMT-RC22
18"	225 / 40-18	EWET
PIRELLI		
15"	195 / 50-15	RK
16"	195 / 50-16	RK
17"	205 / 45-17	RK
18"	235 / 40-18	RK
18"	235 / 40-18	RW
YOKOHAMA		
15"	190 / 580-15	ADVAN A051T
16"	190 / 600-16	ADVAN A051T
17"	190 / 625-17	ADVAN A051T
17"	210 / 625-17	ADVAN A051T
18"	235 / 40-18 (210 / 650 R18)	ADVAN A051T
HANKOOK		
16"	180 / 600 R16	VENTUS Z205
17"	180 / 625 R17	VENTUS Z205
18"	210 / 650 R18	VENTUS Z205
KUMHO TYRES		
15"	180 / 580 R15	TM 02
16"	190 / 600 R16	TM 02
17"	190 / 630 R17	TM 02
17"	210 / 645 R17	TW 02
18"	210 / 645 R18	TM 01

18"	210 / 645 R18	TM 02
18"	210 / 645 R18	TM 02
18"	210 / 645 R18	TW 02
HOOSIER RACING TIRE		
18"	200 / 650 R18	DS/DM/DH

ANEXO II

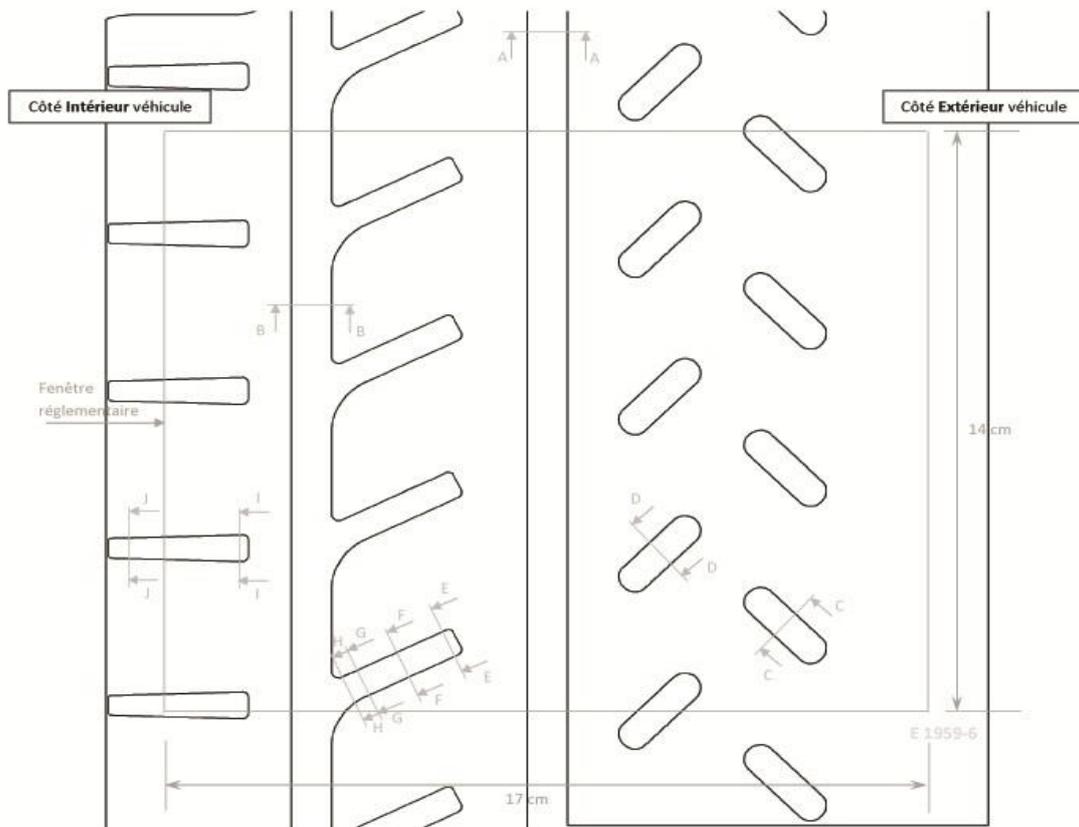
DESENHOS DO PISO DOS PNEUS DE ASFALTO LISTA CNR 2017

18" - 20/65-18



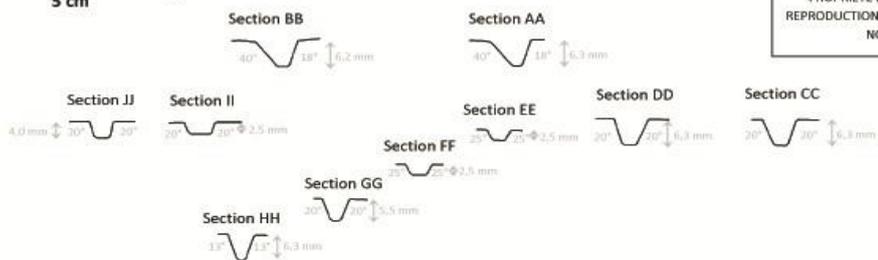
Domaine : Rallye Asphalte
 Dimension : 20 / 65 – 18
 Plan de la sculpture : Pilot Sport R
 Entaillement Surfamique dans fenêtre règlementaire : 21,51 %

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

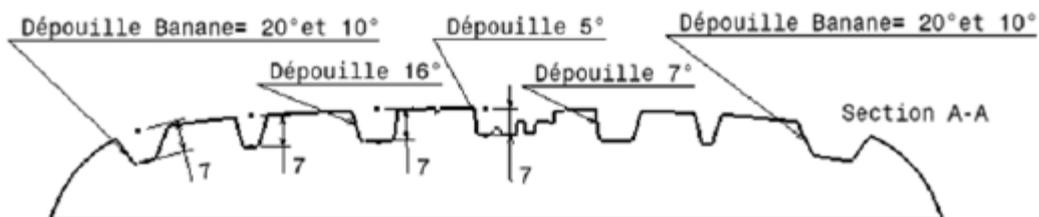
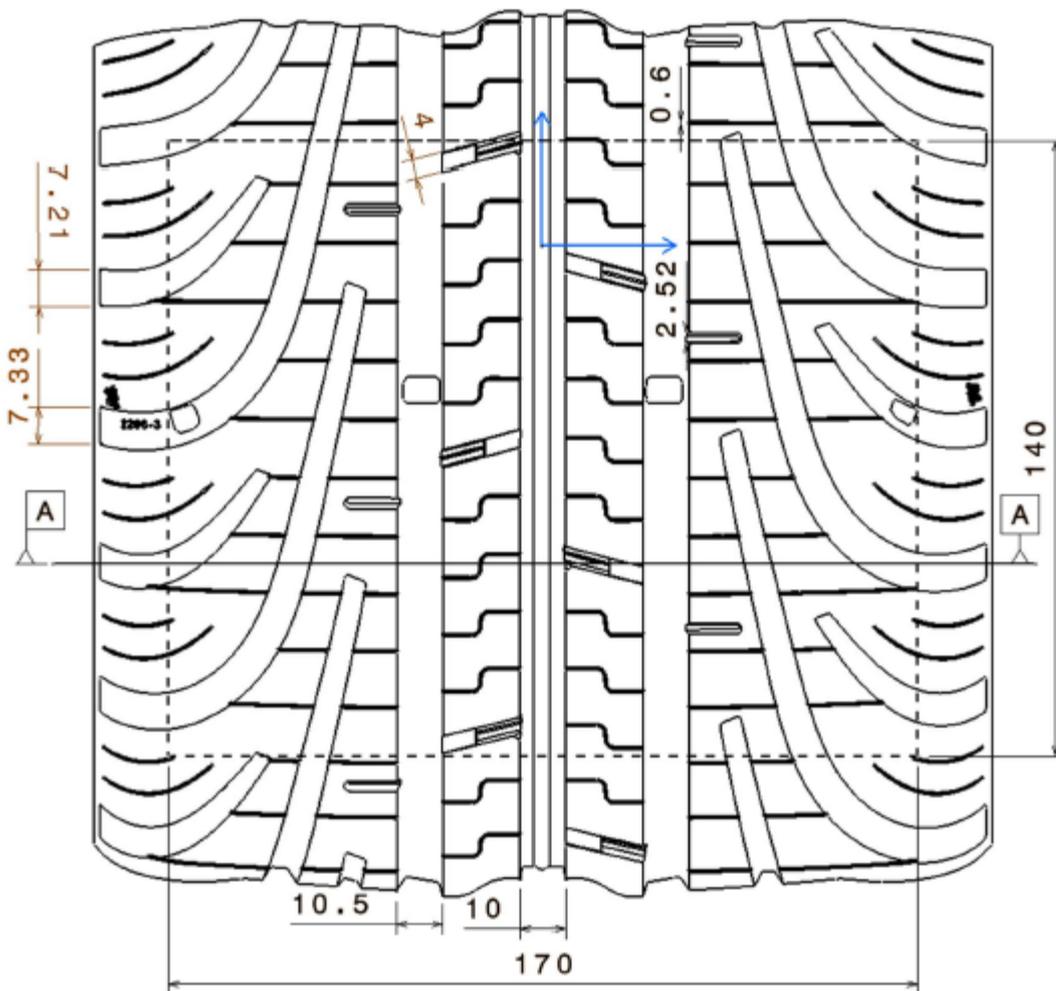


18" - 18/65-18



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

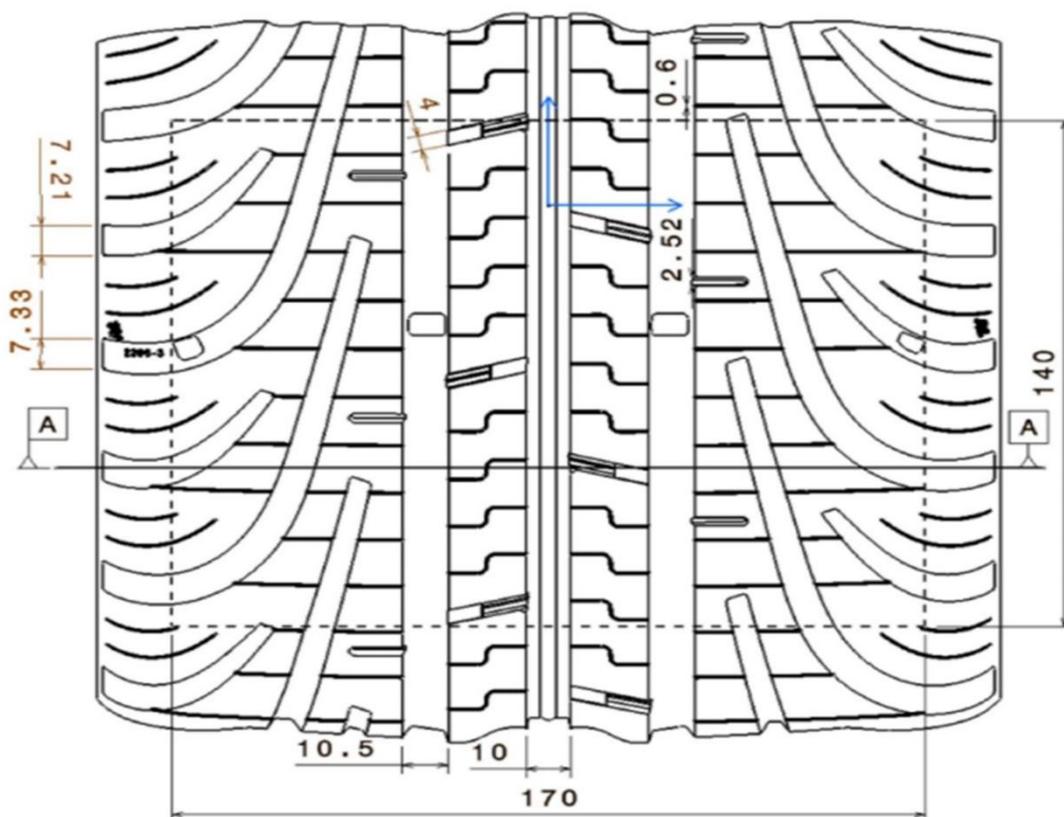
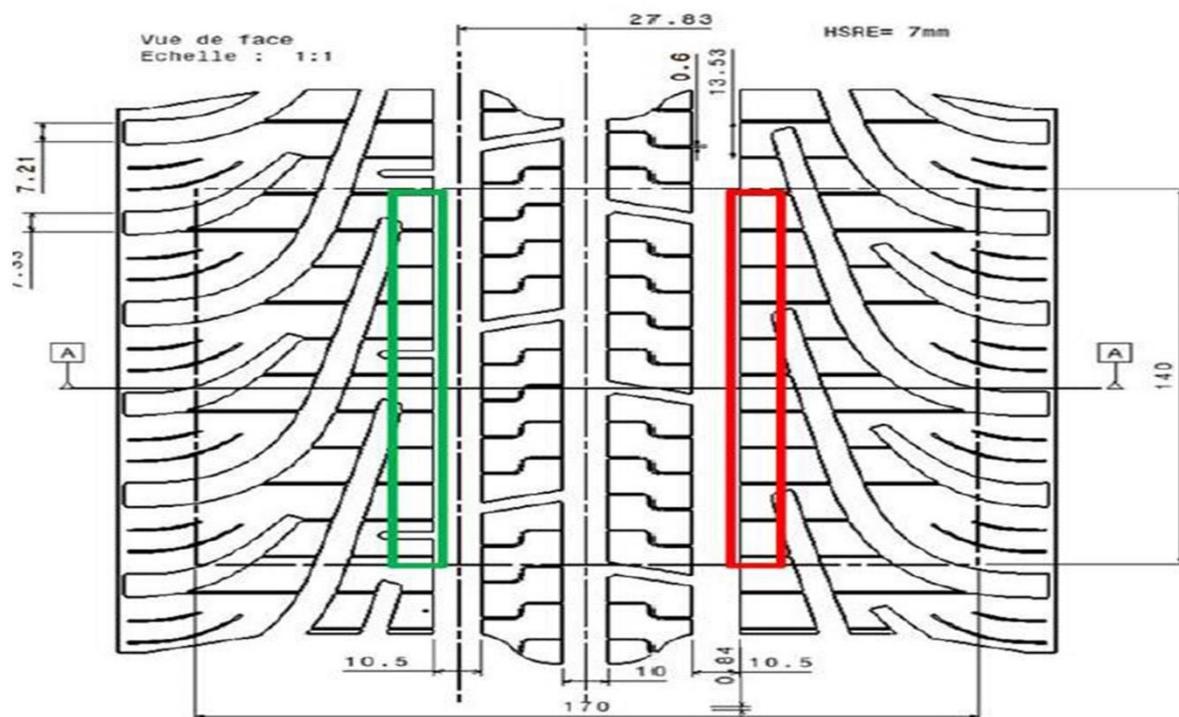
MANUFACTURE FRANCAISE DES PNEUMATIQUES
MICHELIN CLERMONT-FERRAND
PROPRIETE EXCLUSIVE DE NOTRE SOCIETE
REPRODUCTION OU UTILISATION INTERDITE SANS
NOTRE ACCORD ECRIT



18" - 18/65-18



VÁLIDO ATÉ 31.12.2017

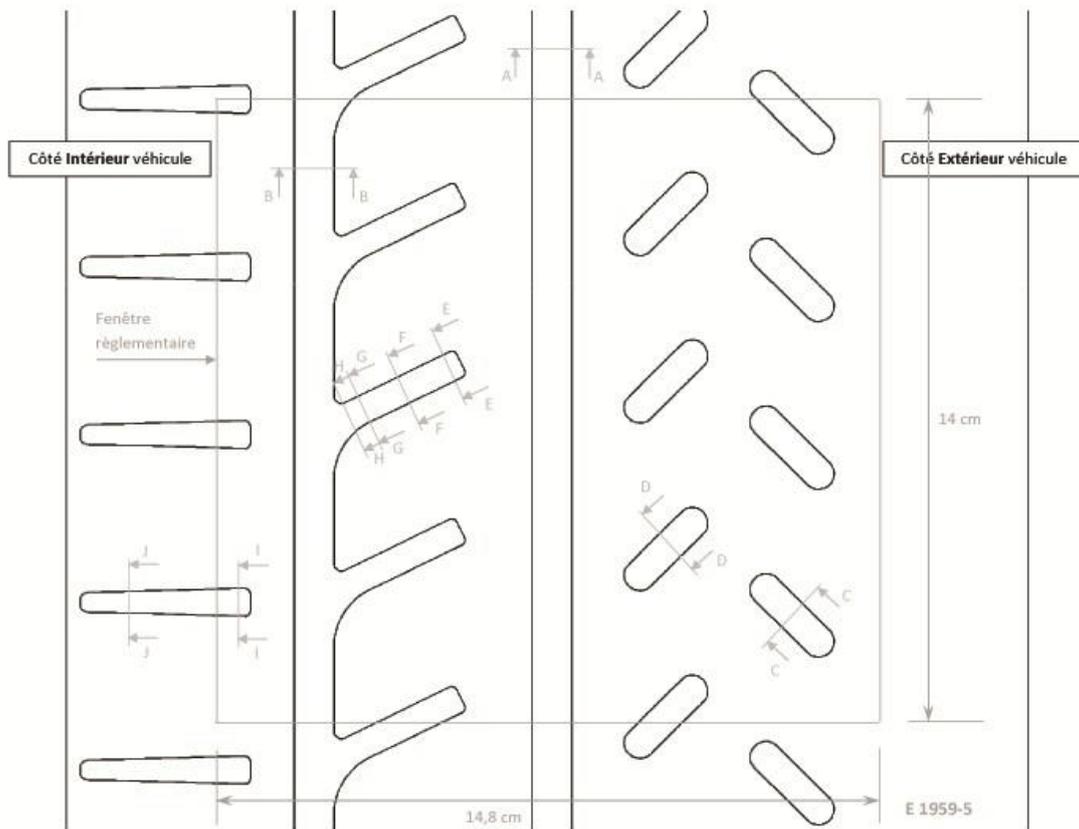


17" - 19/63-17

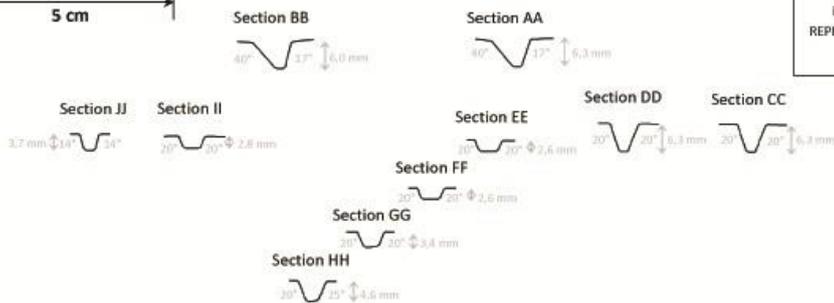


Domaine : Rallye Asphalte
 Dimension : 19 / 63 – 17
 Plan de la sculpture : Pilot Sport R
 Entaillement surfacique sur fenêtre réglementaire : 21,51 %

Clermont-Ferrand le 05/12/2013



Echelle 1:1
 5 cm



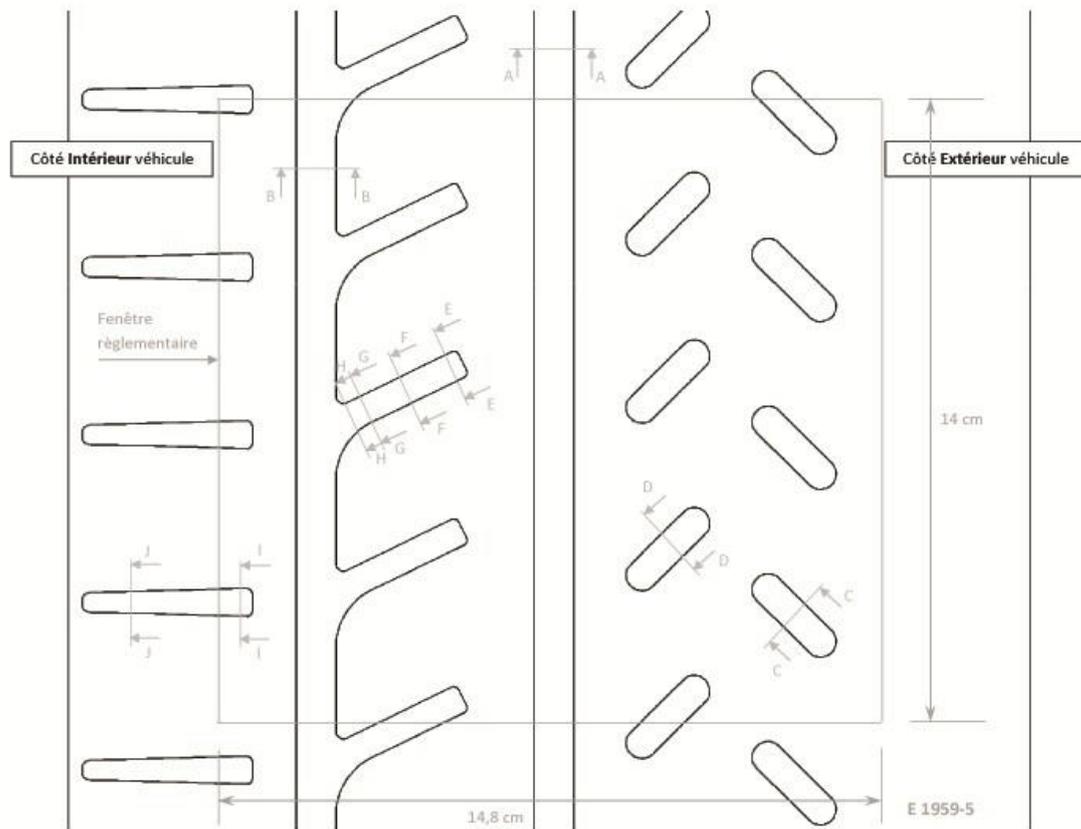
MANUFACTURE FRANCAISE DES PNEUMATIQUES
 MICHELIN CLERMONT-FERRAND
 PROPRIETE EXCLUSIVE DE NOTRE SOCIETE
 REPRODUCTION OU UTILISATION INTERDITE SANS
 NOTRE ACCORD ECRIT

16" – 19/60-16

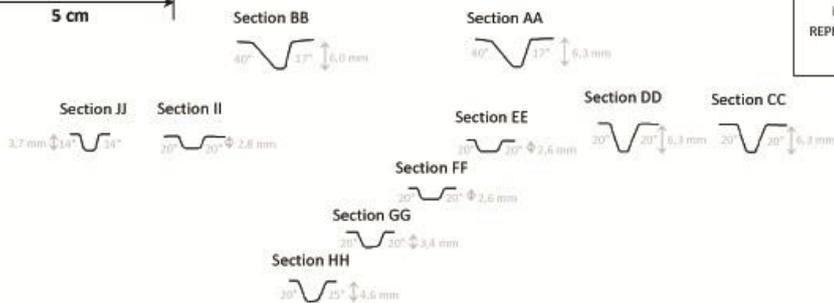


Domaine : Rallye Asphalte
 Dimension : 19 / 60 – 16
 Plan de la sculpture : Pilot Sport R
 Entaillement surfacique sur fenêtre réglementaire : 21,51 %

Clermont-Ferrand le 05/12/2013



Echelle 1:1
 5 cm



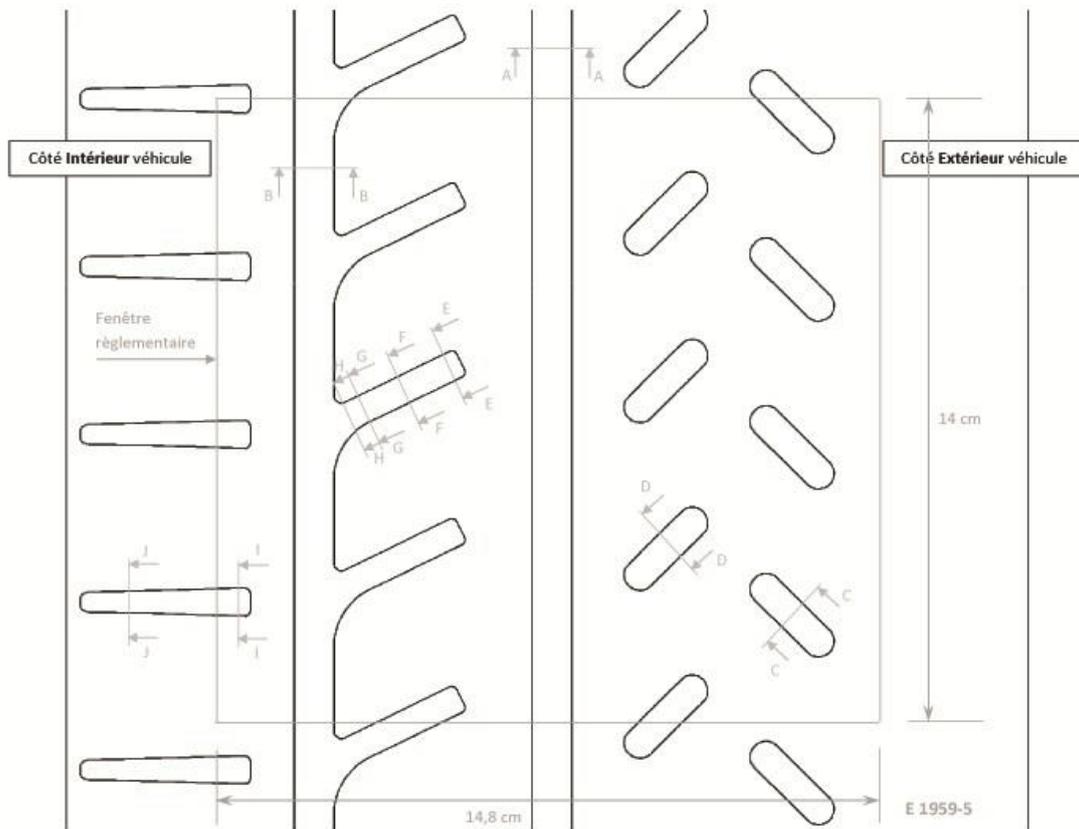
MANUFACTURE FRANCAISE DES PNEUMATIQUES
 MICHELIN CLERMONT-FERRAND
 PROPRIETE EXCLUSIVE DE NOTRE SOCIETE
 REPRODUCTION OU UTILISATION INTERDITE SANS
 NOTRE ACCORD ECRIT

15" – 19/58-15

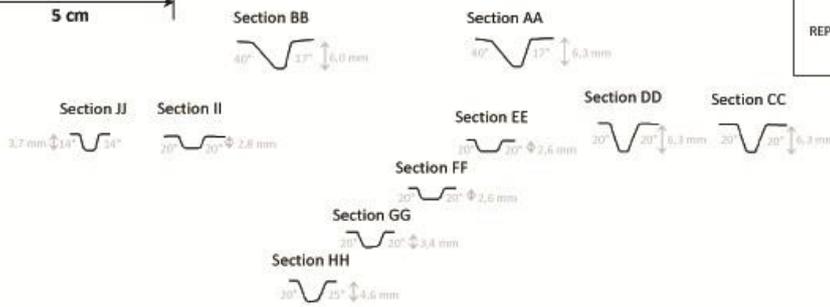


Domaine : Rallye Asphalte
 Dimension : 19 / 58 – 15
 Plan de la sculpture : Pilot Sport R
 Entaillement surfacique sur fenêtre réglementaire : 21,51 %

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

RGT only – 24/65-18

Circonférentielles sont manuellement coupées.

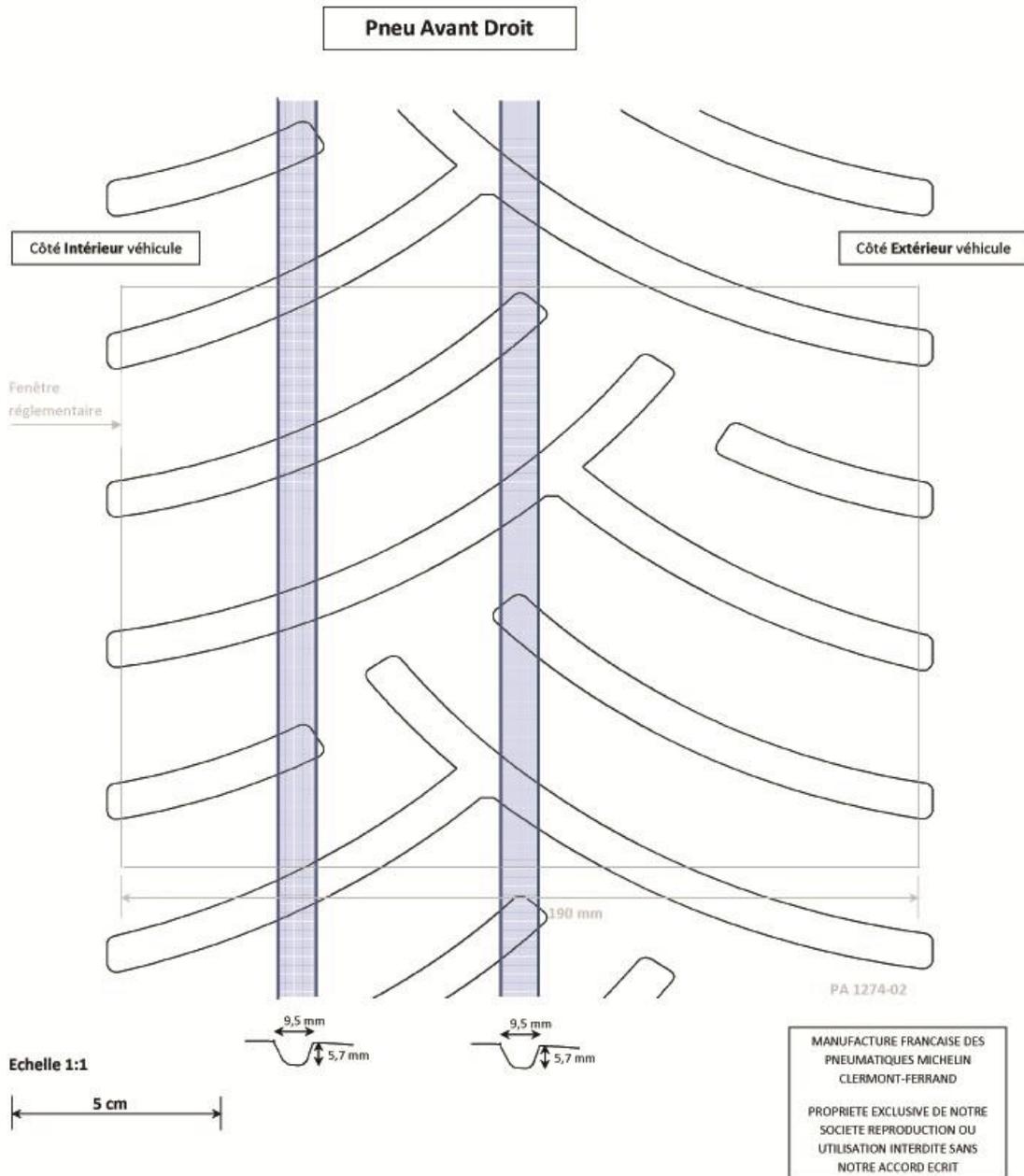


Domaine : Rallye Asphalte

Dimension : 24 / 65 - 18

Entaillement surfacique sur une fenêtre de 190 mm de large : 32,8 %

Clermont-Ferrand le 18/12/2013



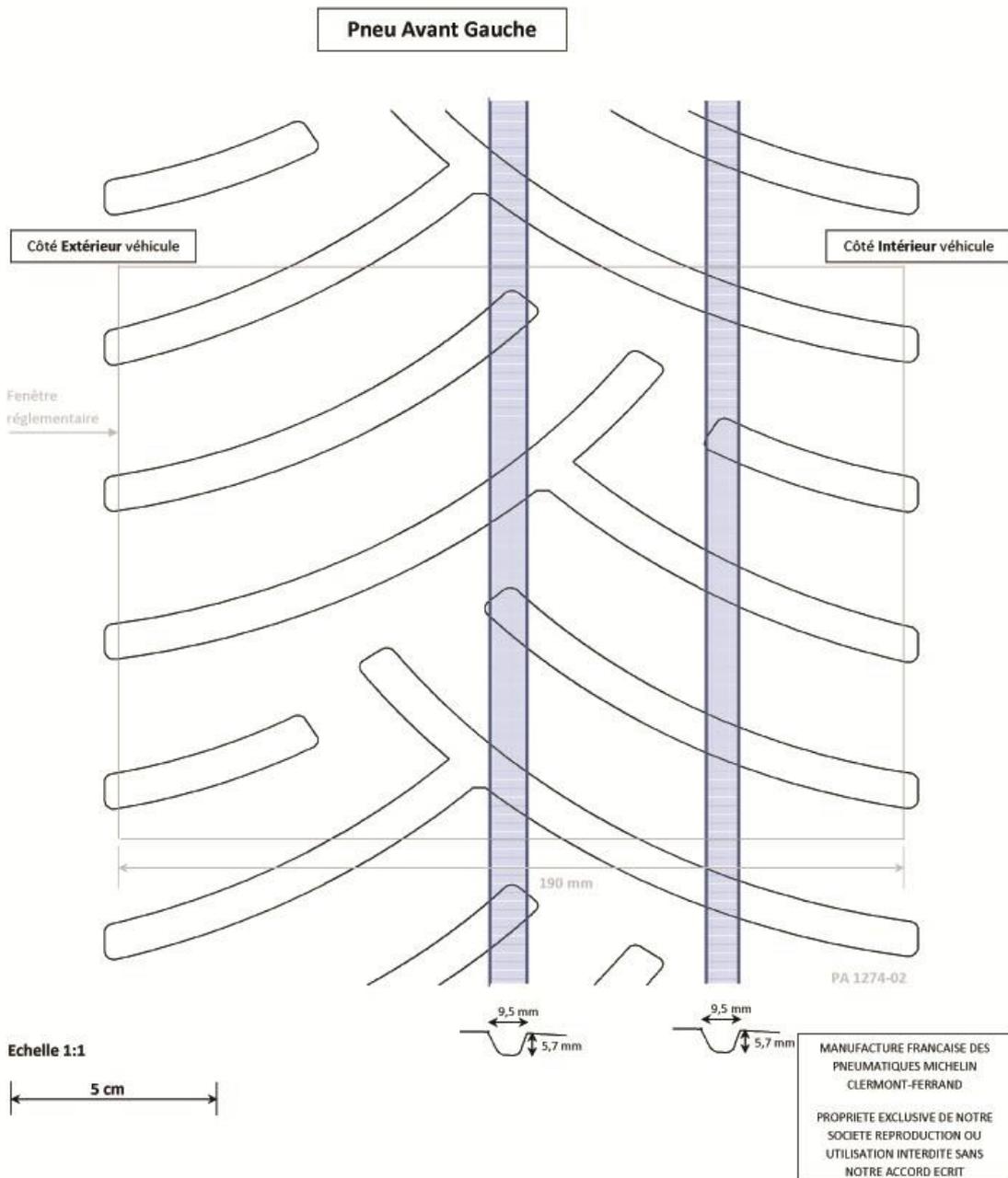
RGT only – 24/65-18

Circonférentielles sont manuellement coupées.



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

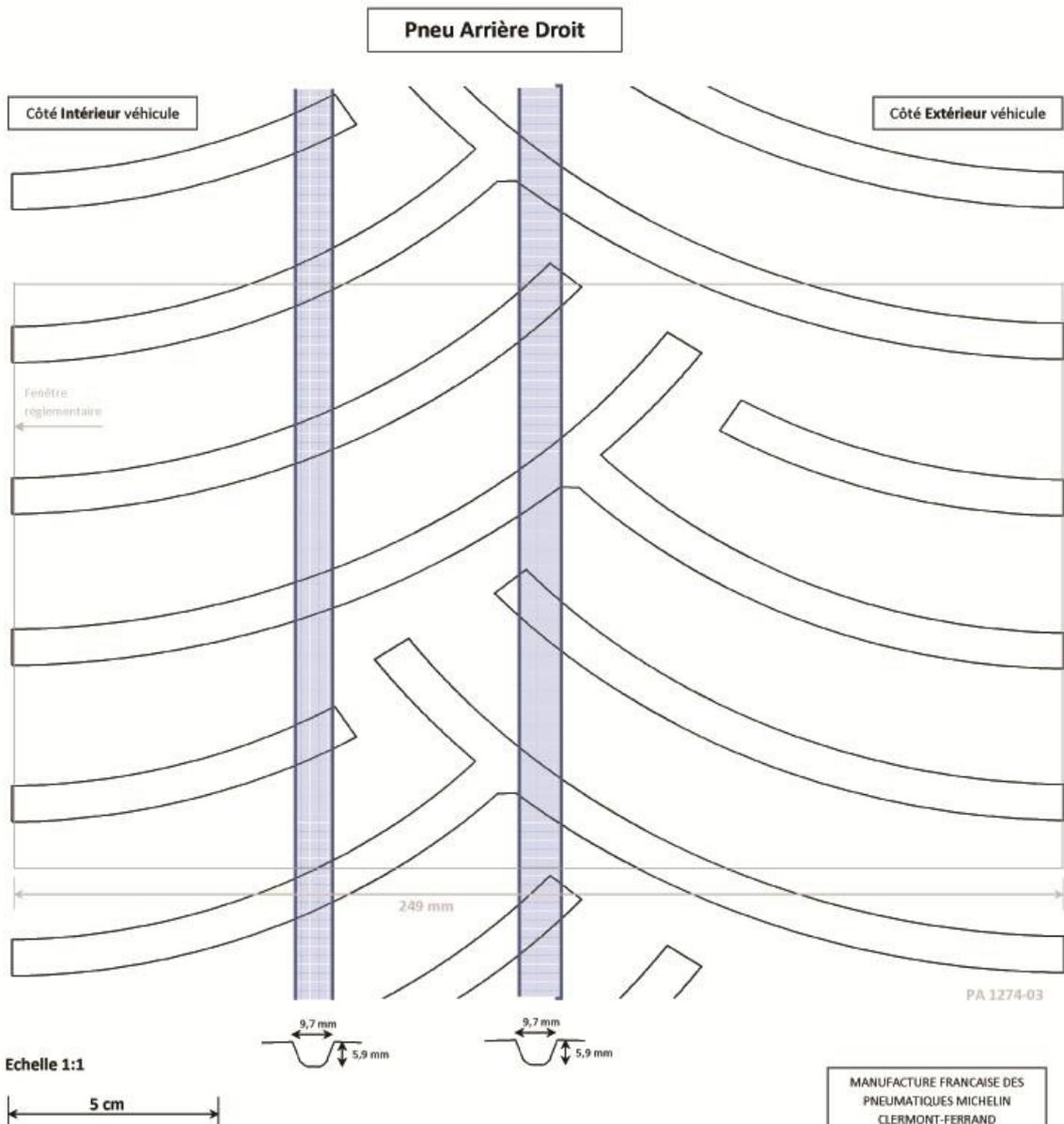
Clermont-Ferrand le 18/12/2013





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

Clermont-Ferrand le 18/12/2013



MANUFACTURE FRANCAISE DES
PNEUMATIQUES MICHELIN
CLERMONT-FERRAND

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

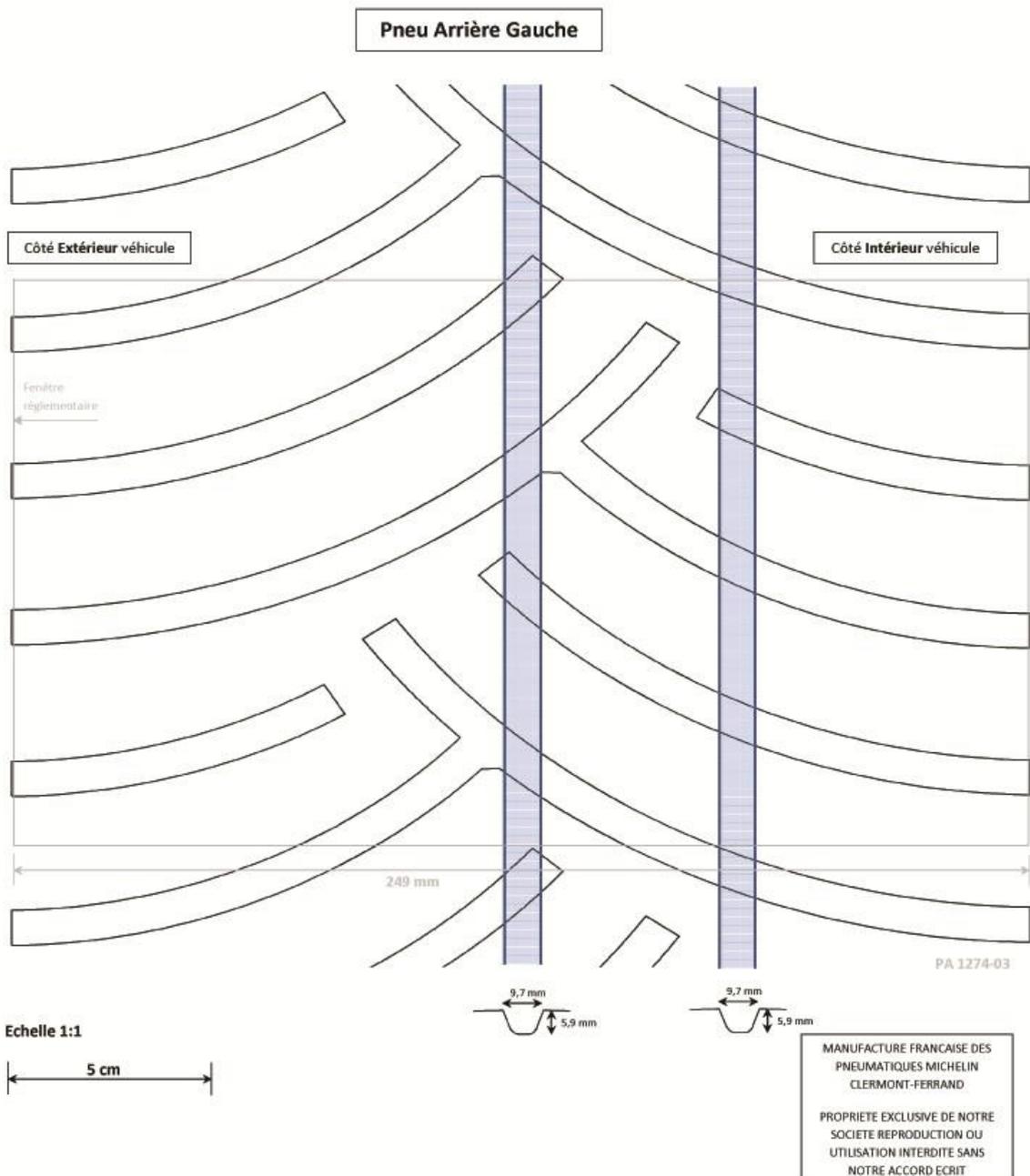
RGT only – 29/65-18

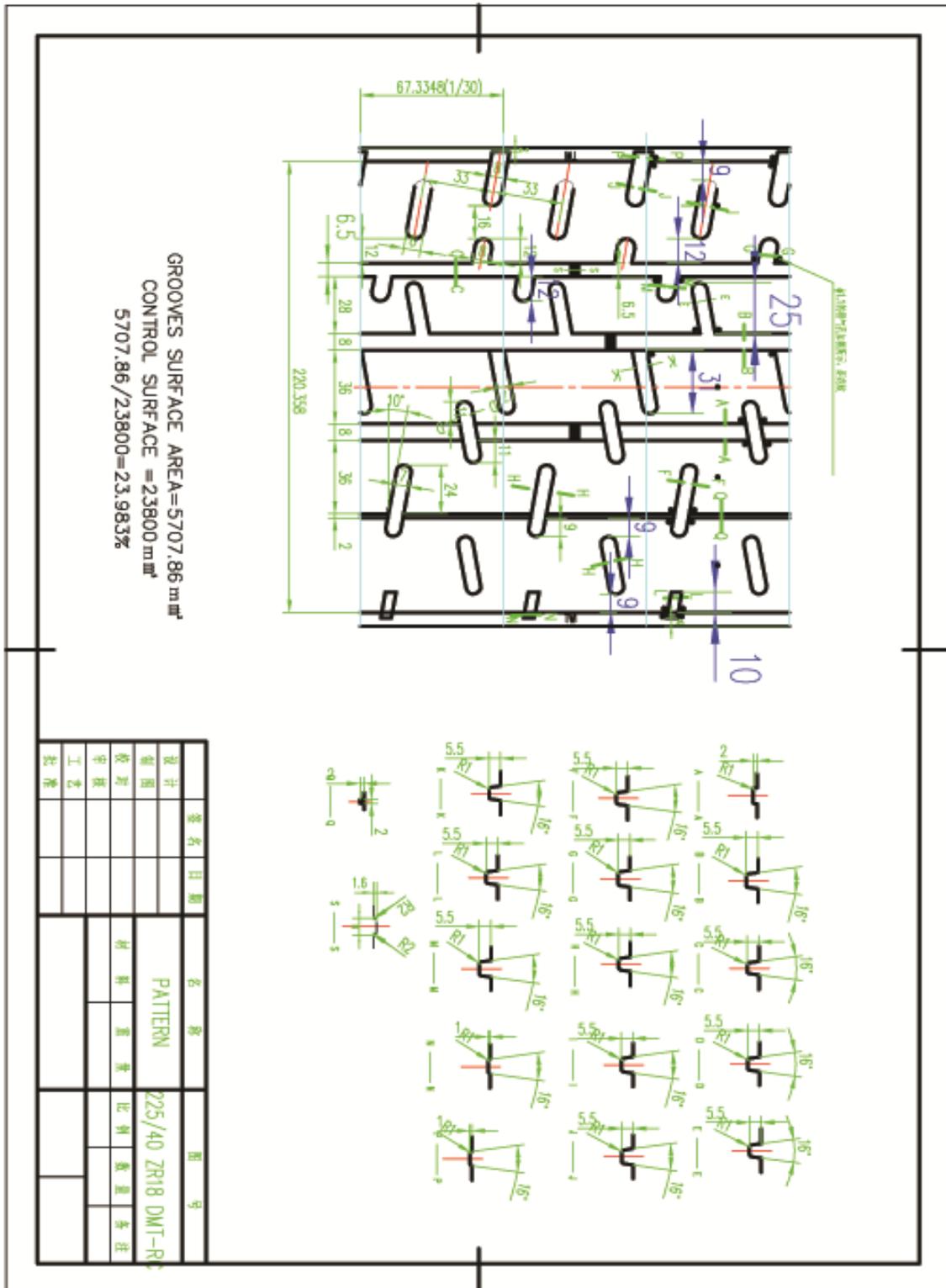
Circonférentielles sont manuellement coupées.



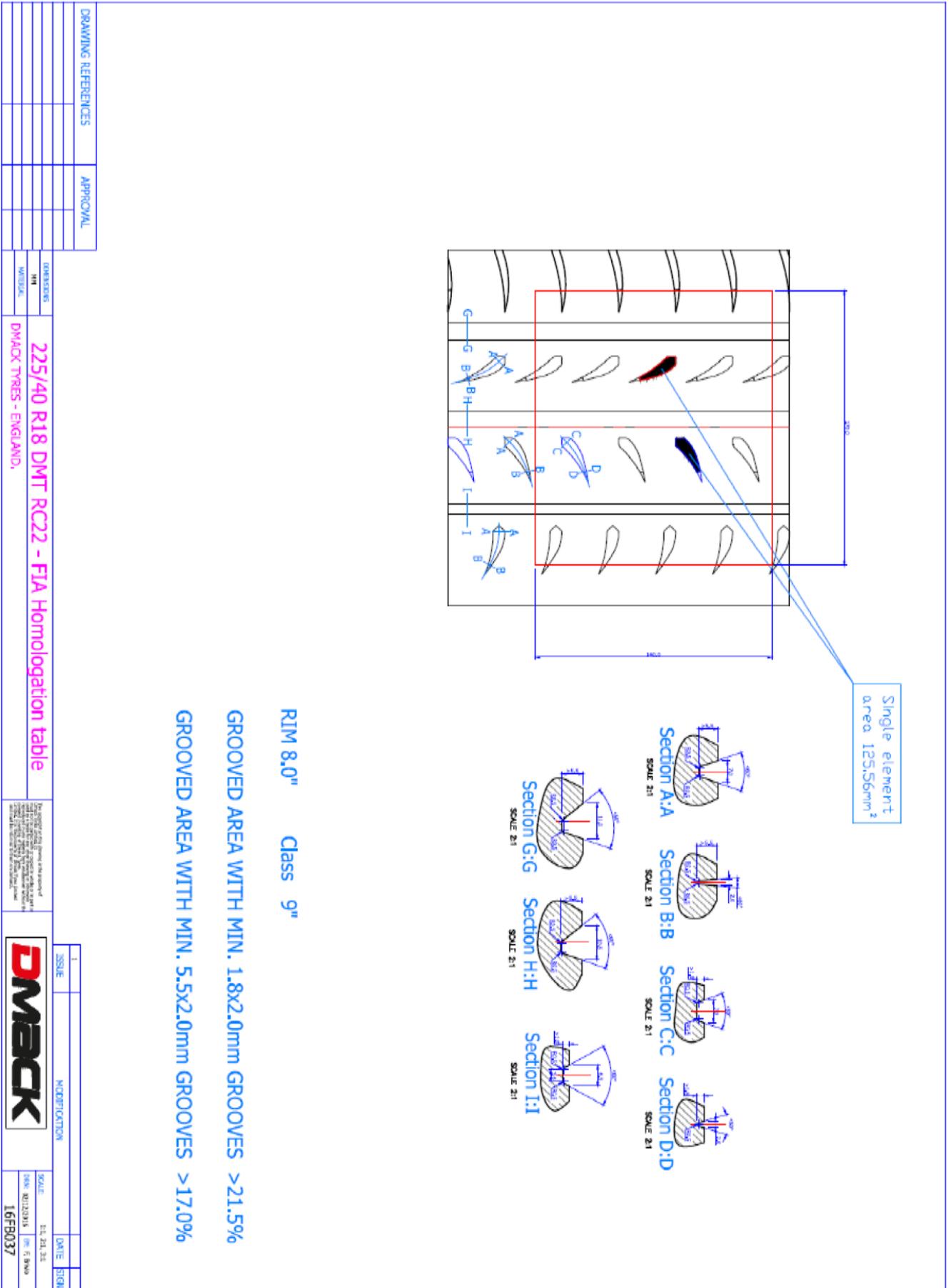
Domaine : Rallye Asphalte
Dimension : 29 / 65 – 18
Entaillement surfacique sur fenêtre de 249 mm de large : 31 %

Clermont-Ferrand le 18/12/2013

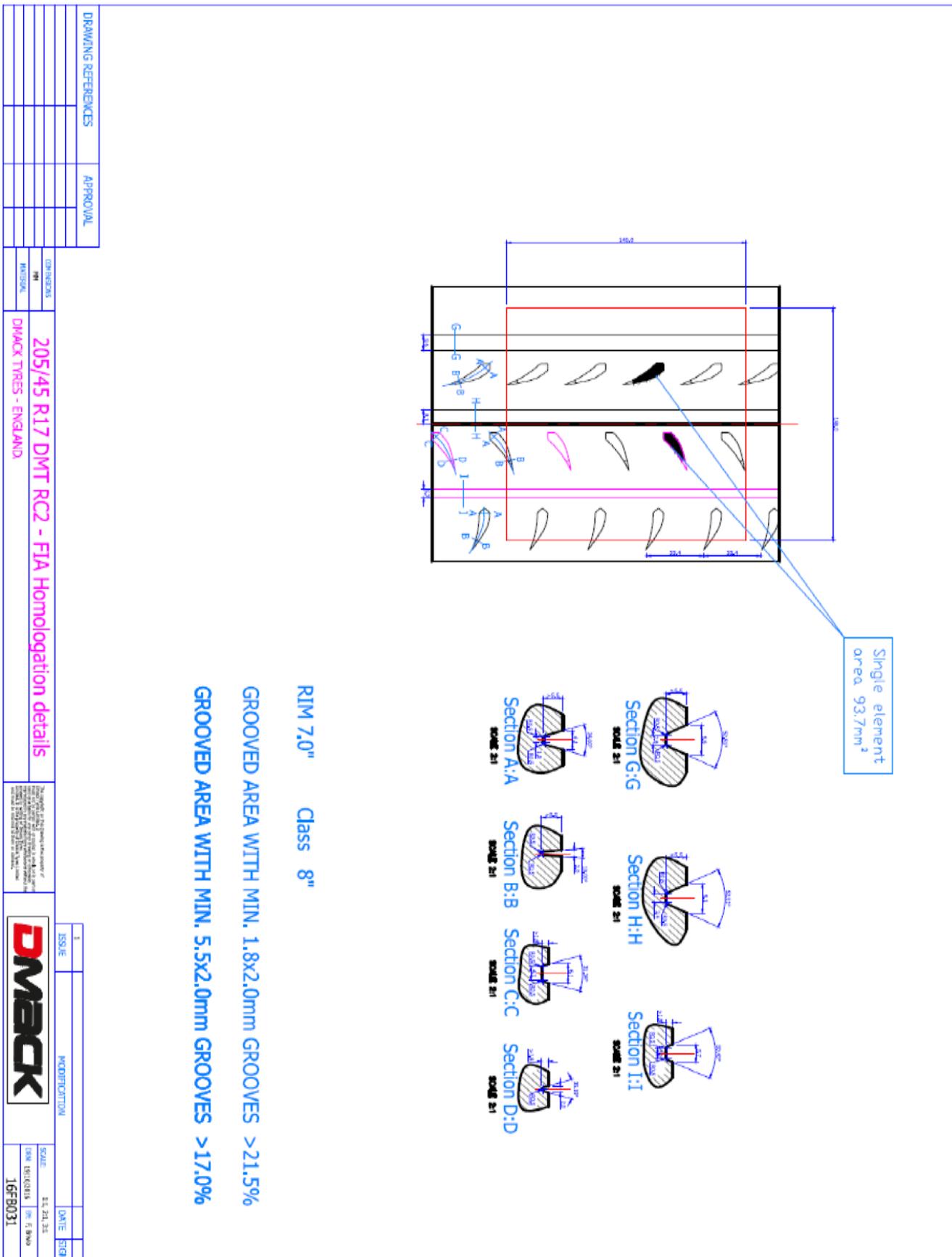




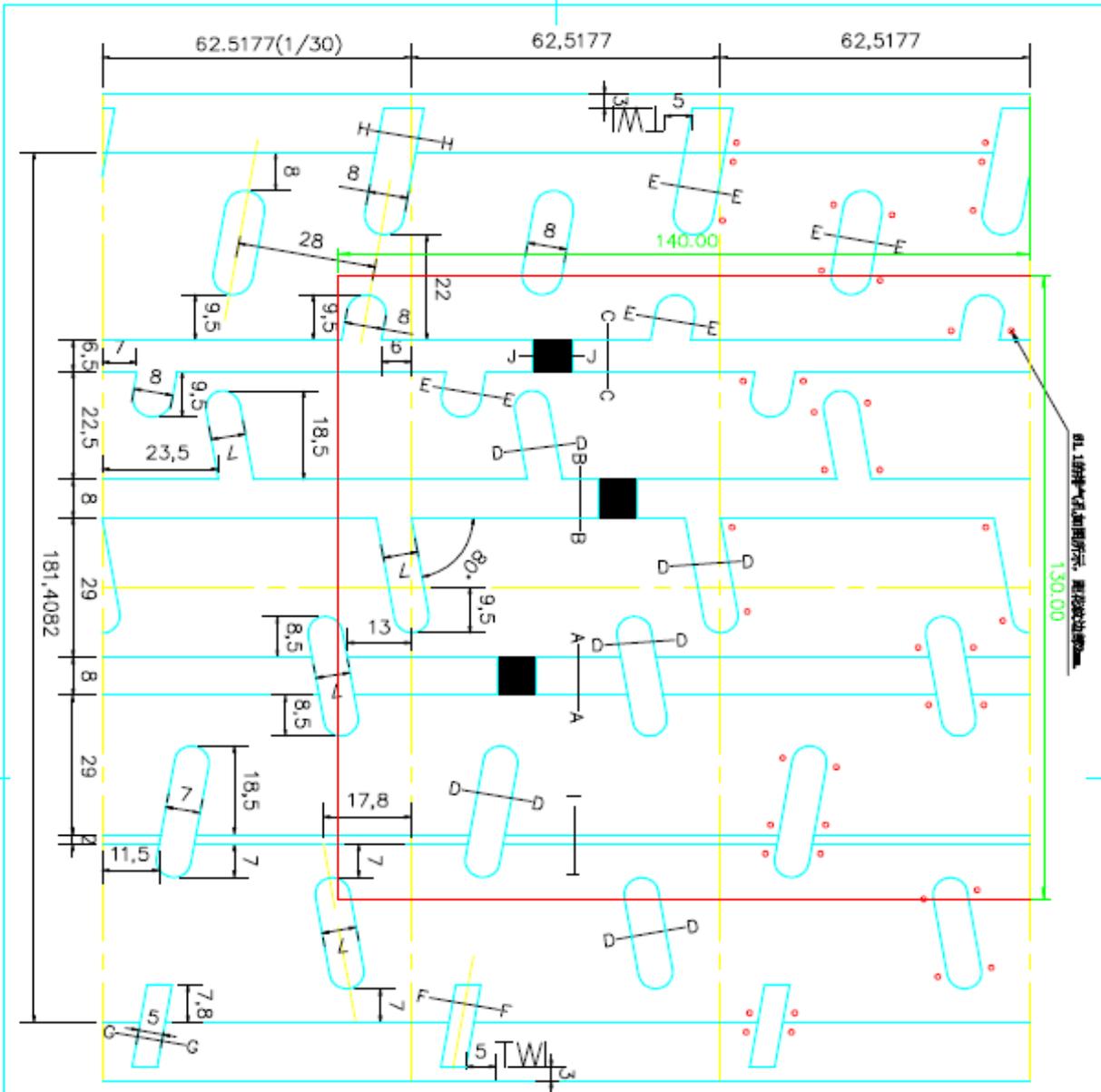
18" – 225/40-18



17" – 205/45-17

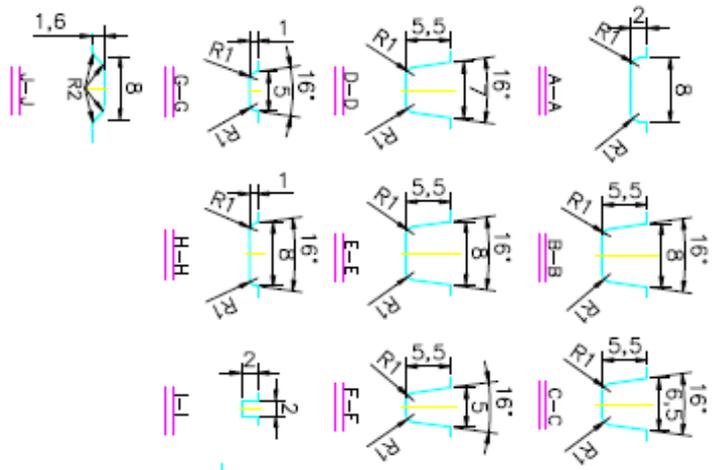


16" – 195/50-16

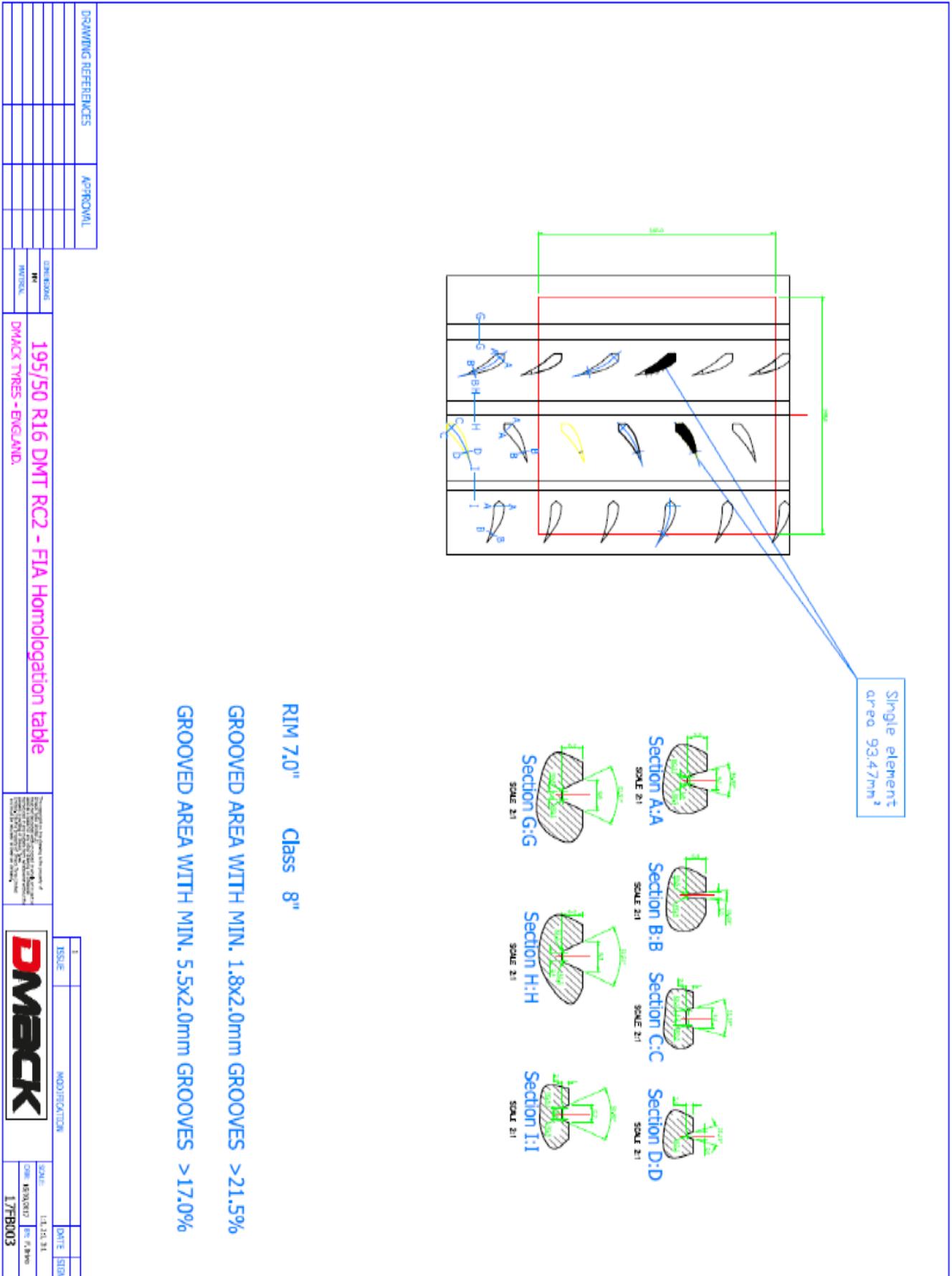


DMACK TYRES LIMITED	PATTERN	195/50R16 DM1-RC

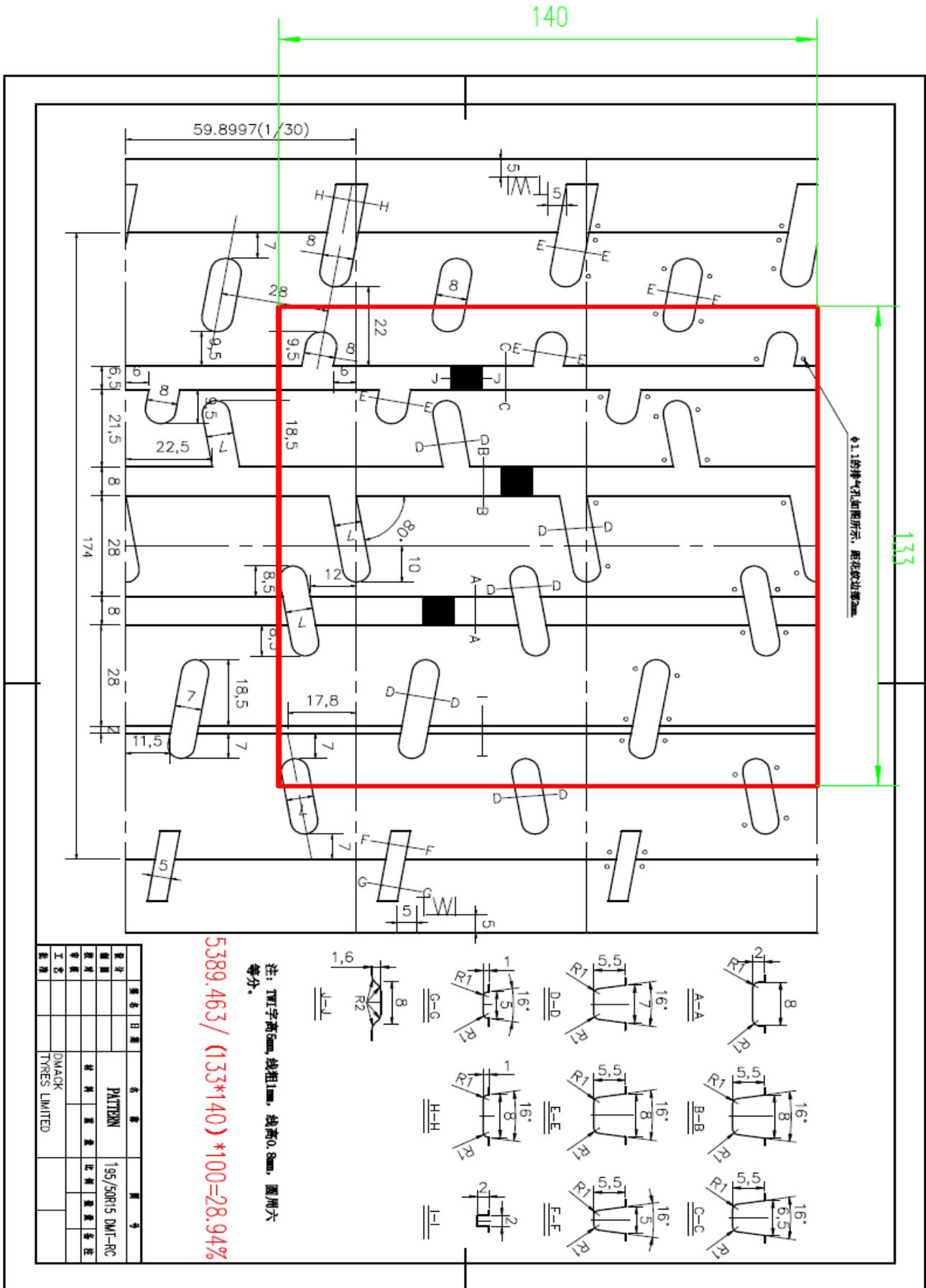
注: TPI字高5mm, 线粗1mm, 线高0.8mm, 圆角R6
等分。
 $5190.276 / (130 + 140) * 100 = 28.518\%$



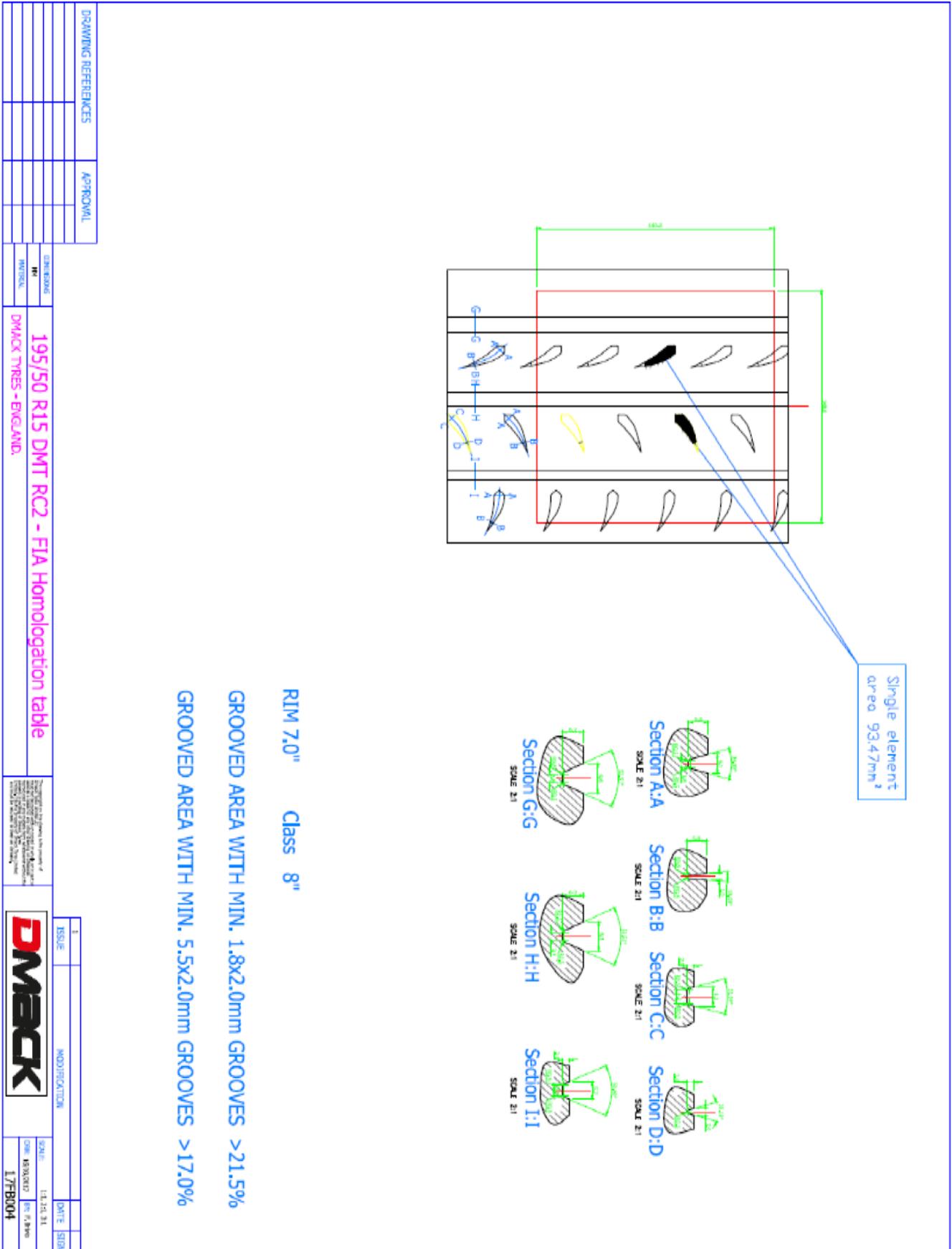
16" – 195/50-16



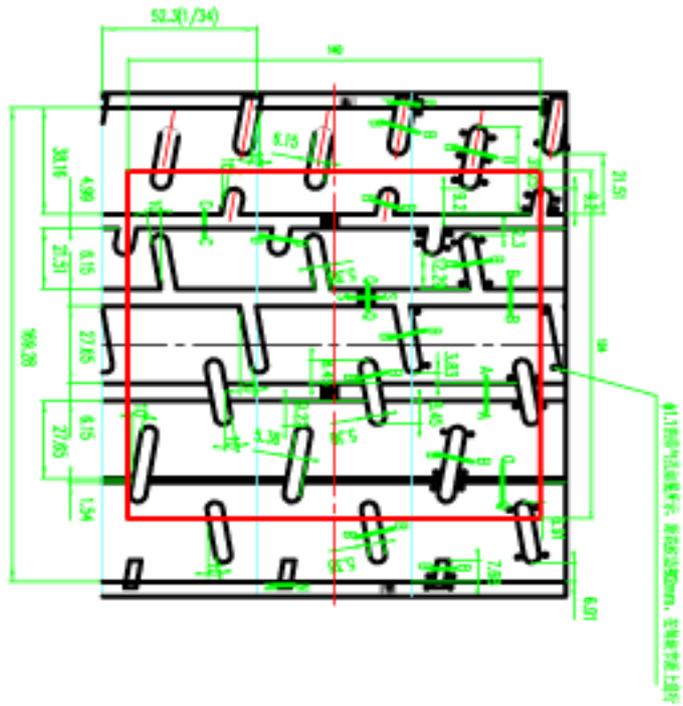
15" – 195/50-15



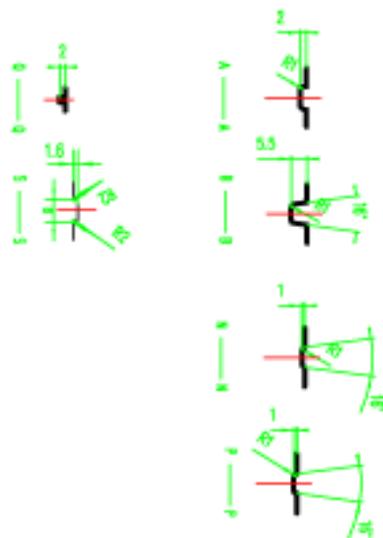
15" – 195/50-15



14" – 175/60-14



注: TWI字高3mm, 线粗1mm, 线高0.8mm, 圆周六等分



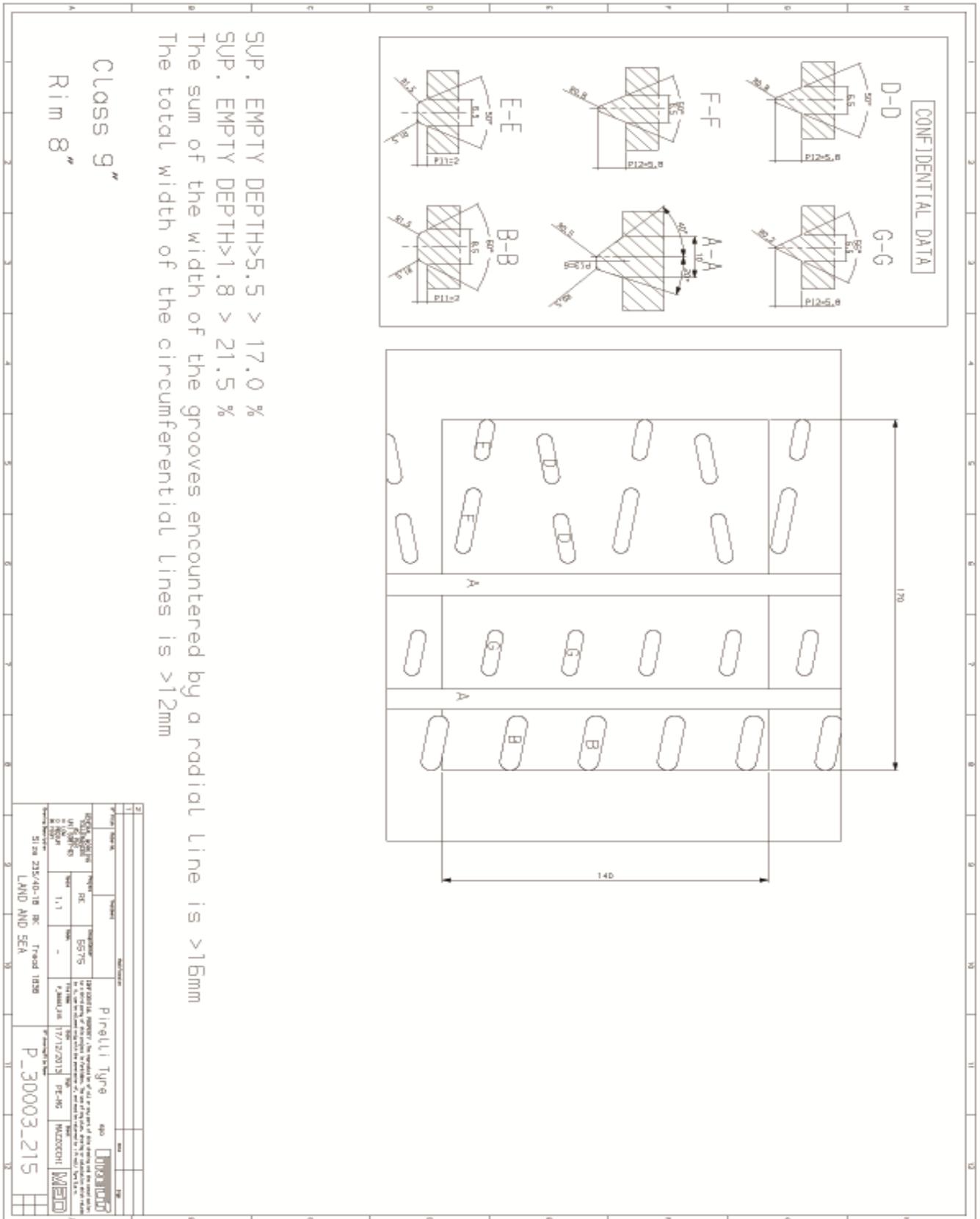
GROOVES SURFACE AREA=4292.808;
CONTROL SURFACE 17360;
4292.808/17360=24.728%

项目	日期	名称	编号
设计		TREAD	175/60R14 DMT-RC
制图			
校核			
审核			
工艺			
批准			

DMACK TYRES LTD

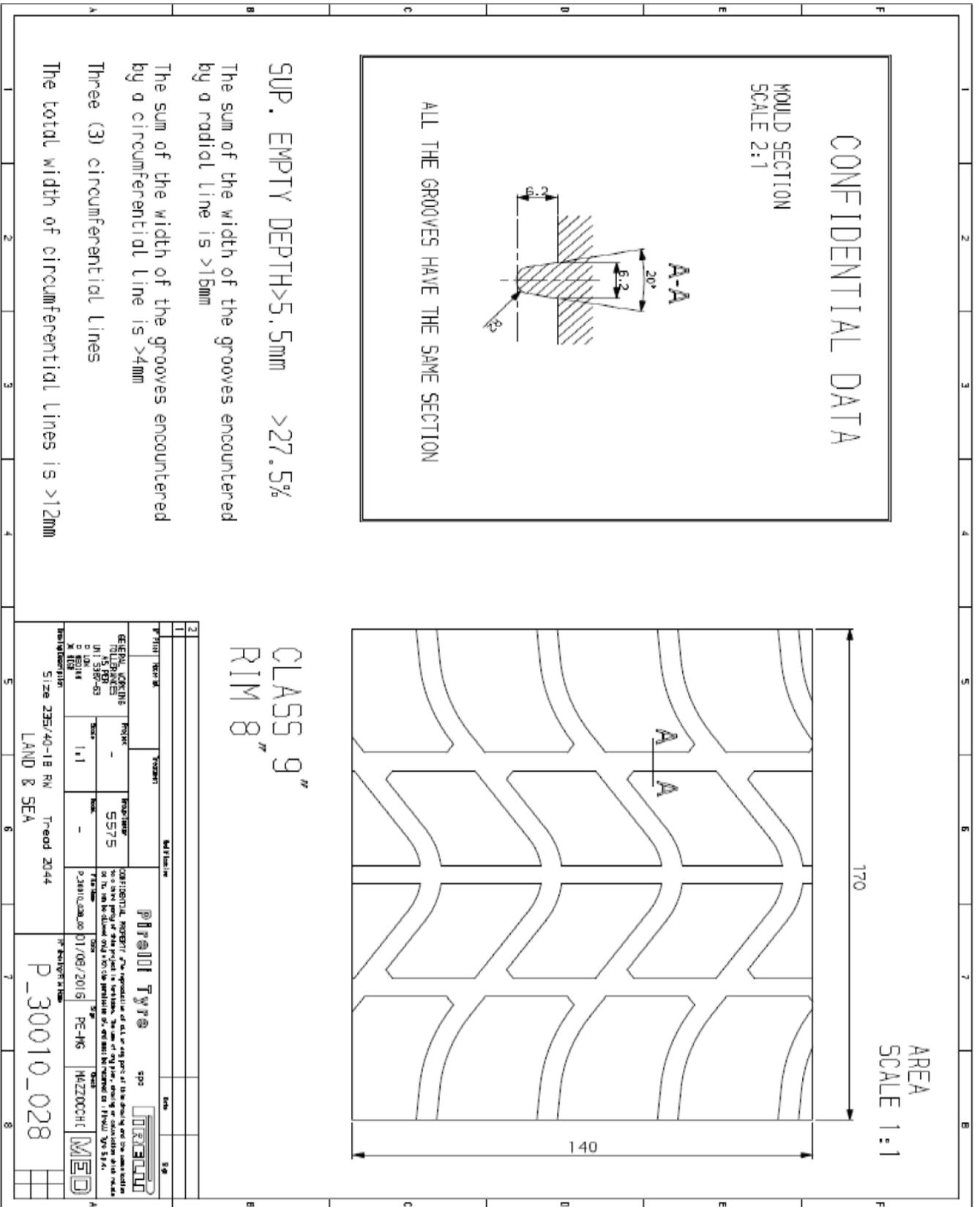


18" – 235/40-18





18" – 235/40-18

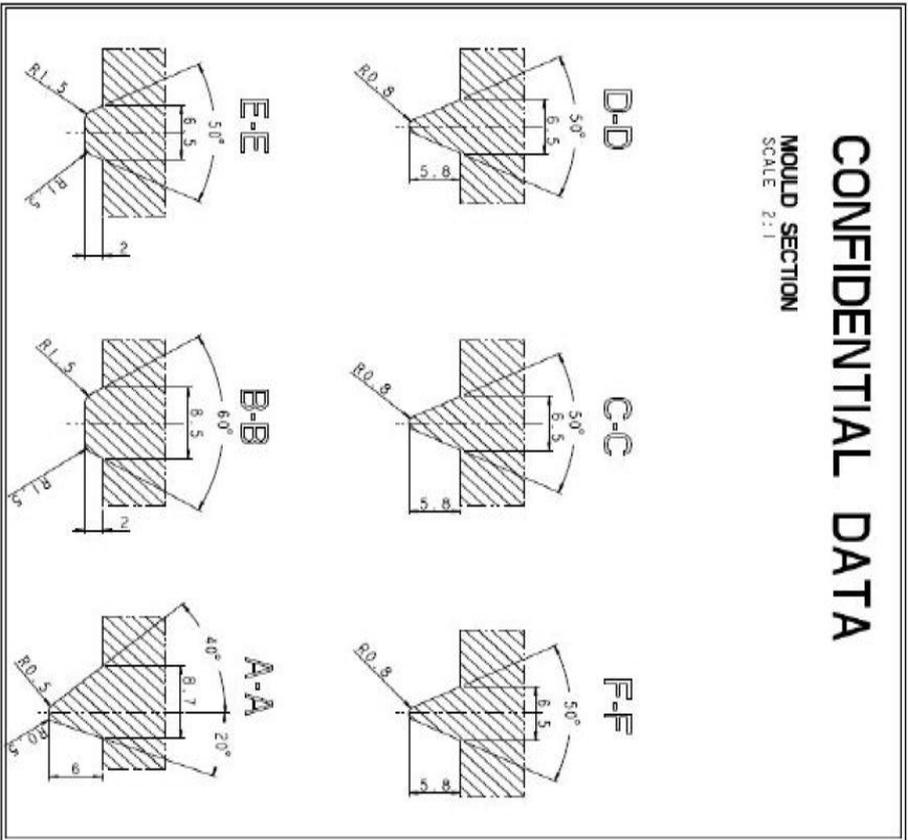




17" - 205/45 - 17

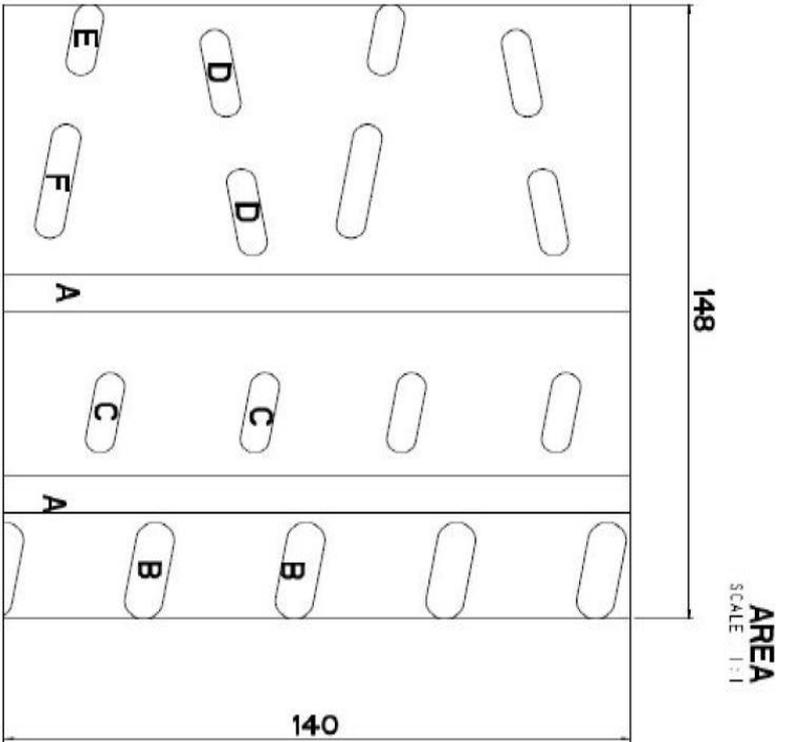
CONFIDENTIAL DATA

MOULD SECTION
SCALE 2:1



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

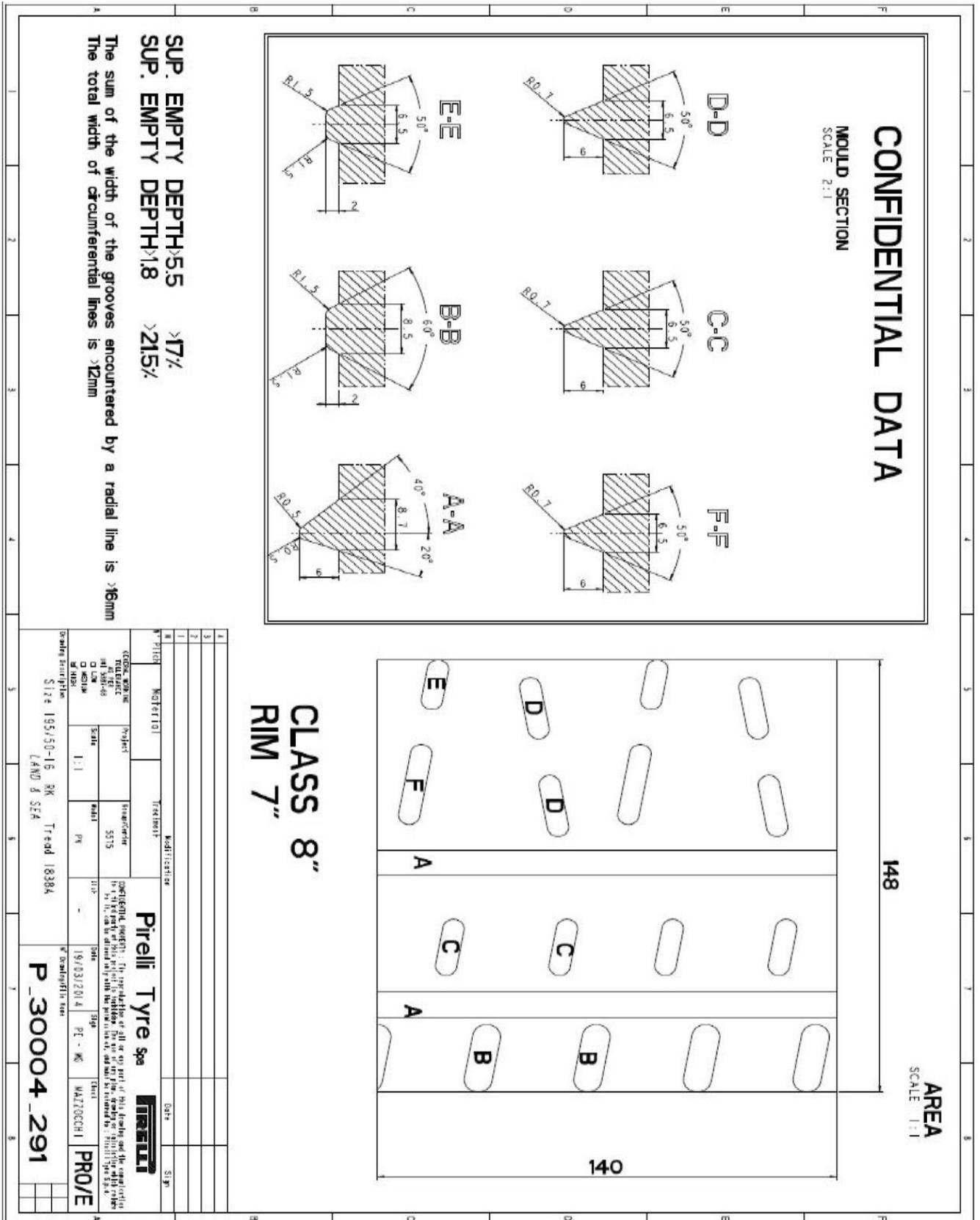
CLASS 8"
RIM 7"



1	Project	5575	Pirelli Tyre spa	
2	Mod. of Tyre	5575	Pirelli	
3	Scale	1:1	Date	
4	Mod. of Tyre	5575	Date	
5	Scale	1:1	Date	
6	Mod. of Tyre	5575	Date	
7	Scale	1:1	Date	
8	Mod. of Tyre	5575	Date	
9	Scale	1:1	Date	
10	Mod. of Tyre	5575	Date	
11	Scale	1:1	Date	
12	Mod. of Tyre	5575	Date	
13	Scale	1:1	Date	
14	Mod. of Tyre	5575	Date	
15	Scale	1:1	Date	
16	Mod. of Tyre	5575	Date	
17	Scale	1:1	Date	
18	Mod. of Tyre	5575	Date	
19	Scale	1:1	Date	
20	Mod. of Tyre	5575	Date	
21	Scale	1:1	Date	
22	Mod. of Tyre	5575	Date	
23	Scale	1:1	Date	
24	Mod. of Tyre	5575	Date	
25	Scale	1:1	Date	
26	Mod. of Tyre	5575	Date	
27	Scale	1:1	Date	
28	Mod. of Tyre	5575	Date	
29	Scale	1:1	Date	
30	Mod. of Tyre	5575	Date	
31	Scale	1:1	Date	
32	Mod. of Tyre	5575	Date	
33	Scale	1:1	Date	
34	Mod. of Tyre	5575	Date	
35	Scale	1:1	Date	
36	Mod. of Tyre	5575	Date	
37	Scale	1:1	Date	
38	Mod. of Tyre	5575	Date	
39	Scale	1:1	Date	
40	Mod. of Tyre	5575	Date	
41	Scale	1:1	Date	
42	Mod. of Tyre	5575	Date	
43	Scale	1:1	Date	
44	Mod. of Tyre	5575	Date	
45	Scale	1:1	Date	
46	Mod. of Tyre	5575	Date	
47	Scale	1:1	Date	
48	Mod. of Tyre	5575	Date	
49	Scale	1:1	Date	
50	Mod. of Tyre	5575	Date	
51	Scale	1:1	Date	
52	Mod. of Tyre	5575	Date	
53	Scale	1:1	Date	
54	Mod. of Tyre	5575	Date	
55	Scale	1:1	Date	
56	Mod. of Tyre	5575	Date	
57	Scale	1:1	Date	
58	Mod. of Tyre	5575	Date	
59	Scale	1:1	Date	
60	Mod. of Tyre	5575	Date	
61	Scale	1:1	Date	
62	Mod. of Tyre	5575	Date	
63	Scale	1:1	Date	
64	Mod. of Tyre	5575	Date	
65	Scale	1:1	Date	
66	Mod. of Tyre	5575	Date	
67	Scale	1:1	Date	
68	Mod. of Tyre	5575	Date	
69	Scale	1:1	Date	
70	Mod. of Tyre	5575	Date	
71	Scale	1:1	Date	
72	Mod. of Tyre	5575	Date	
73	Scale	1:1	Date	
74	Mod. of Tyre	5575	Date	
75	Scale	1:1	Date	
76	Mod. of Tyre	5575	Date	
77	Scale	1:1	Date	
78	Mod. of Tyre	5575	Date	
79	Scale	1:1	Date	
80	Mod. of Tyre	5575	Date	
81	Scale	1:1	Date	
82	Mod. of Tyre	5575	Date	
83	Scale	1:1	Date	
84	Mod. of Tyre	5575	Date	
85	Scale	1:1	Date	
86	Mod. of Tyre	5575	Date	
87	Scale	1:1	Date	
88	Mod. of Tyre	5575	Date	
89	Scale	1:1	Date	
90	Mod. of Tyre	5575	Date	
91	Scale	1:1	Date	
92	Mod. of Tyre	5575	Date	
93	Scale	1:1	Date	
94	Mod. of Tyre	5575	Date	
95	Scale	1:1	Date	
96	Mod. of Tyre	5575	Date	
97	Scale	1:1	Date	
98	Mod. of Tyre	5575	Date	
99	Scale	1:1	Date	
100	Mod. of Tyre	5575	Date	



16" – 195/50-16

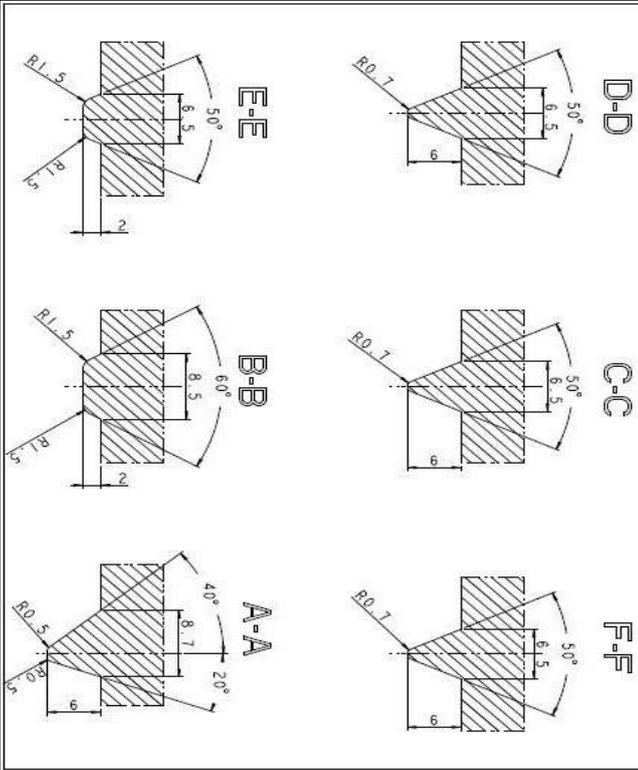




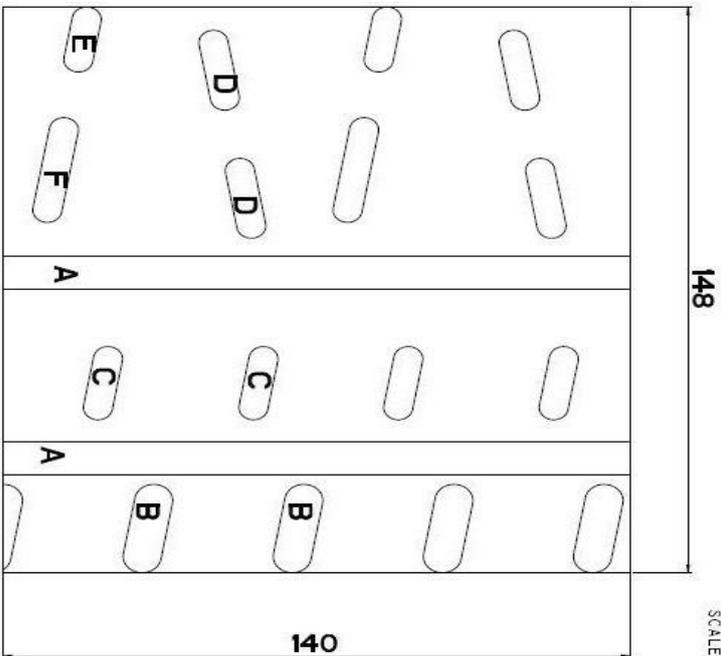
15" - 195/50-15

CONFIDENTIAL DATA

MOULD SECTION
SCALE 2:1



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



AREA
SCALE 1:1

**CLASS 8"
RIM 7"**

N°	ITEM	MATERIAL	TREATMENT	MODIFICATION	DATE	SIGN
1						
2						
3						
4						

DESIGNER	Project	COMPONENT	Project
DATE	19/03/2014	SCALE	1:1
DRAWN	PE	DATE	19/03/2014
CHECKED	PE	DATE	19/03/2014
APPROVED	PE	DATE	19/03/2014

Size 195/50-15 RK Tread 1838A
 LAND & SEA

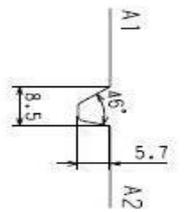
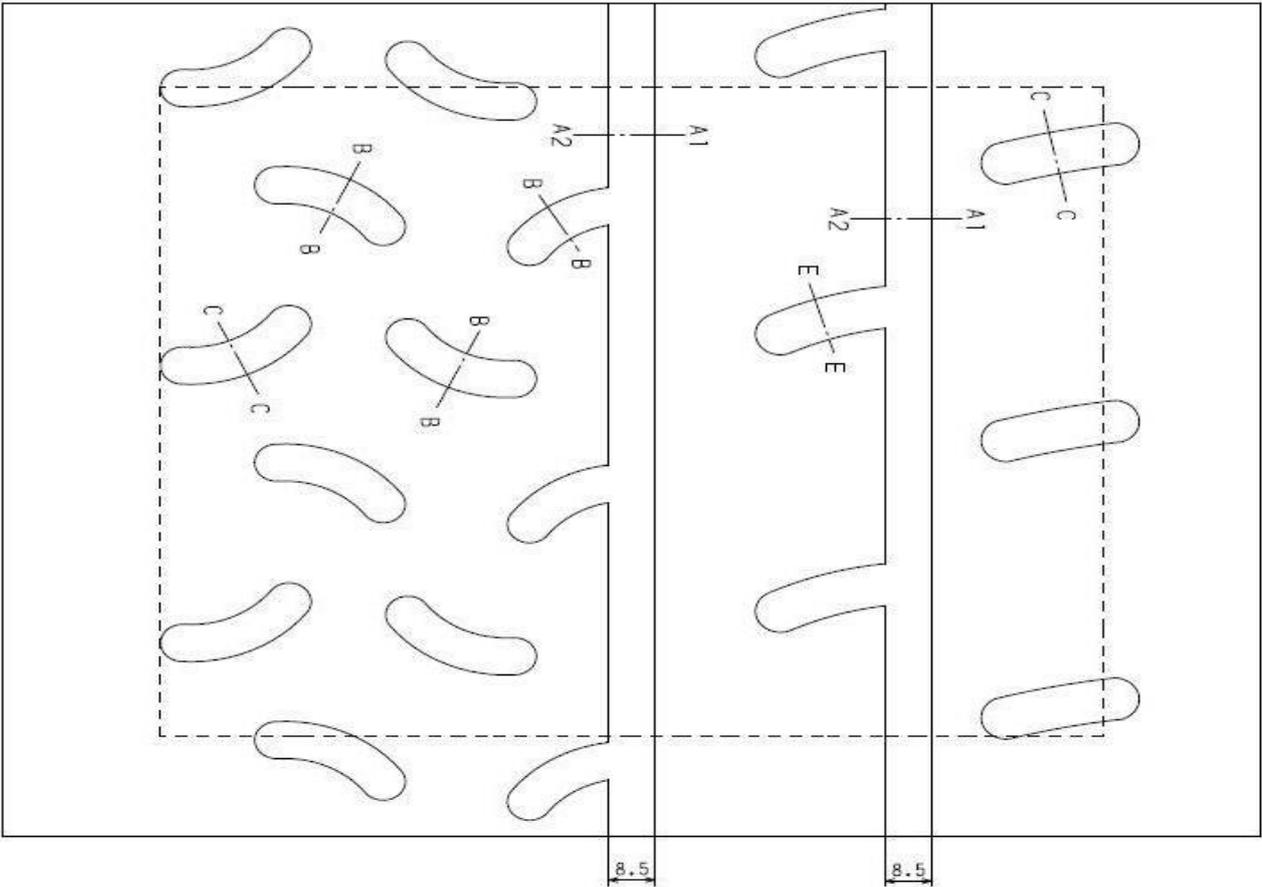
Pirelli Tyre spa

PIRELLI

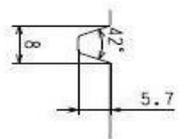
PRO/E

P_30004_290

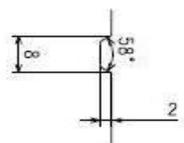
18" – 235/40-18



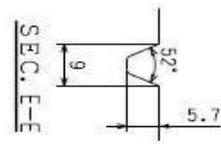
SEC. A1-A2



SEC. B-B



SEC. C-C



SEC. E-E

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

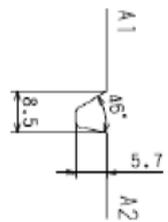
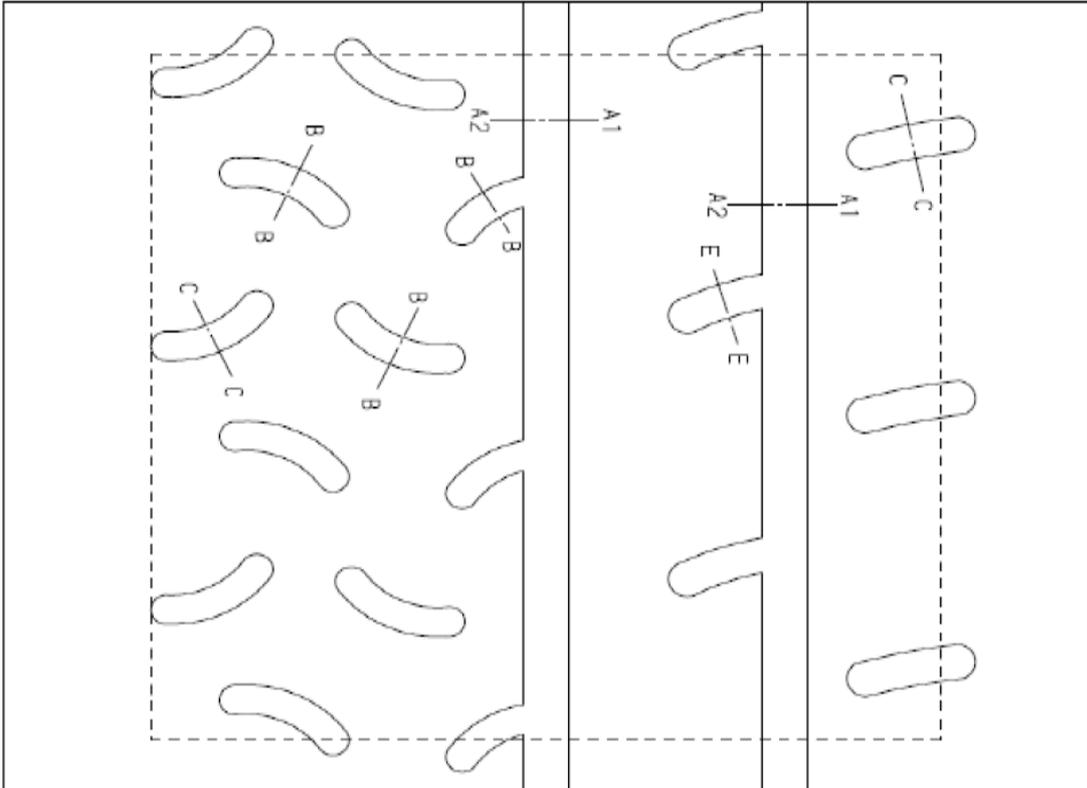
----- Control area 170X140

Tyre weight 9.7kg

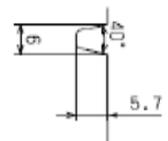
PRODUCT NAME
YOKOHAMA ADVAN AD51T

PATTERN NAME
AD51A

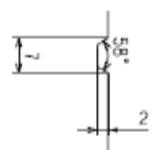
SIZE 210/650R18



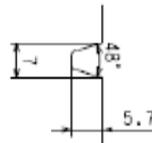
SEC. A1-A2



SEC. B-B



SEC. C-C



SEC. E-E

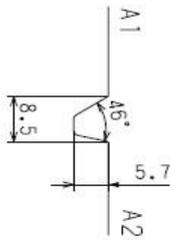
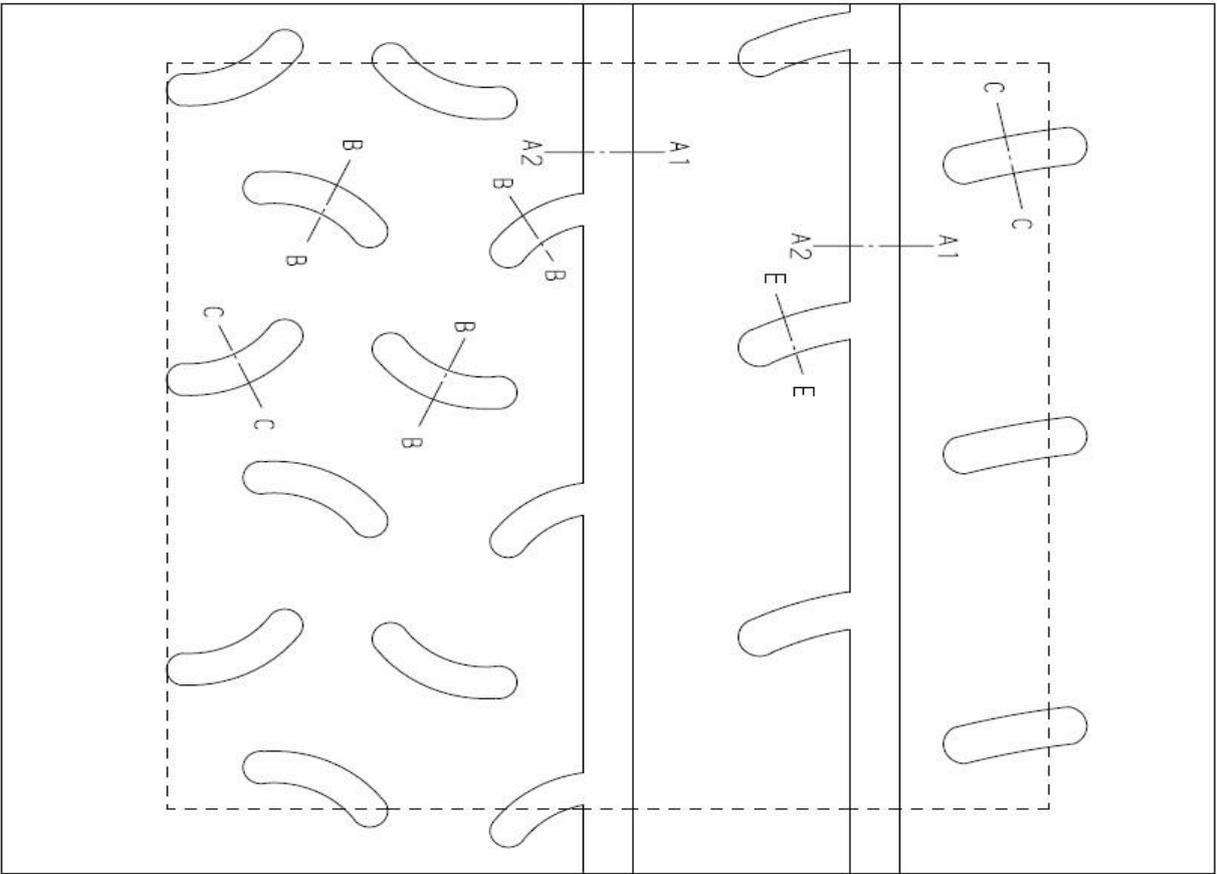
In the control area
 5.5mm grooves-17.9%
 Total grooves-21.6%

----- Control area 170X140

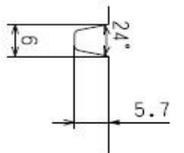
PRODUCT NAME
YOKOHAMA ADVAN AD517

PATTERN NAME
AD51A

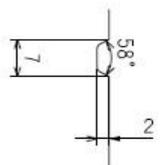
SIZE 210/625R17



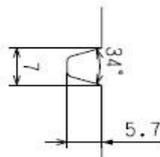
SEC. A1-A2



SEC. B-B



SEC. C-C



SEC. E-E

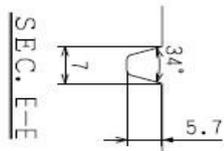
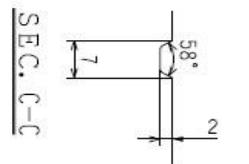
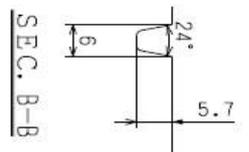
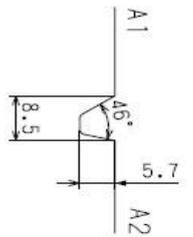
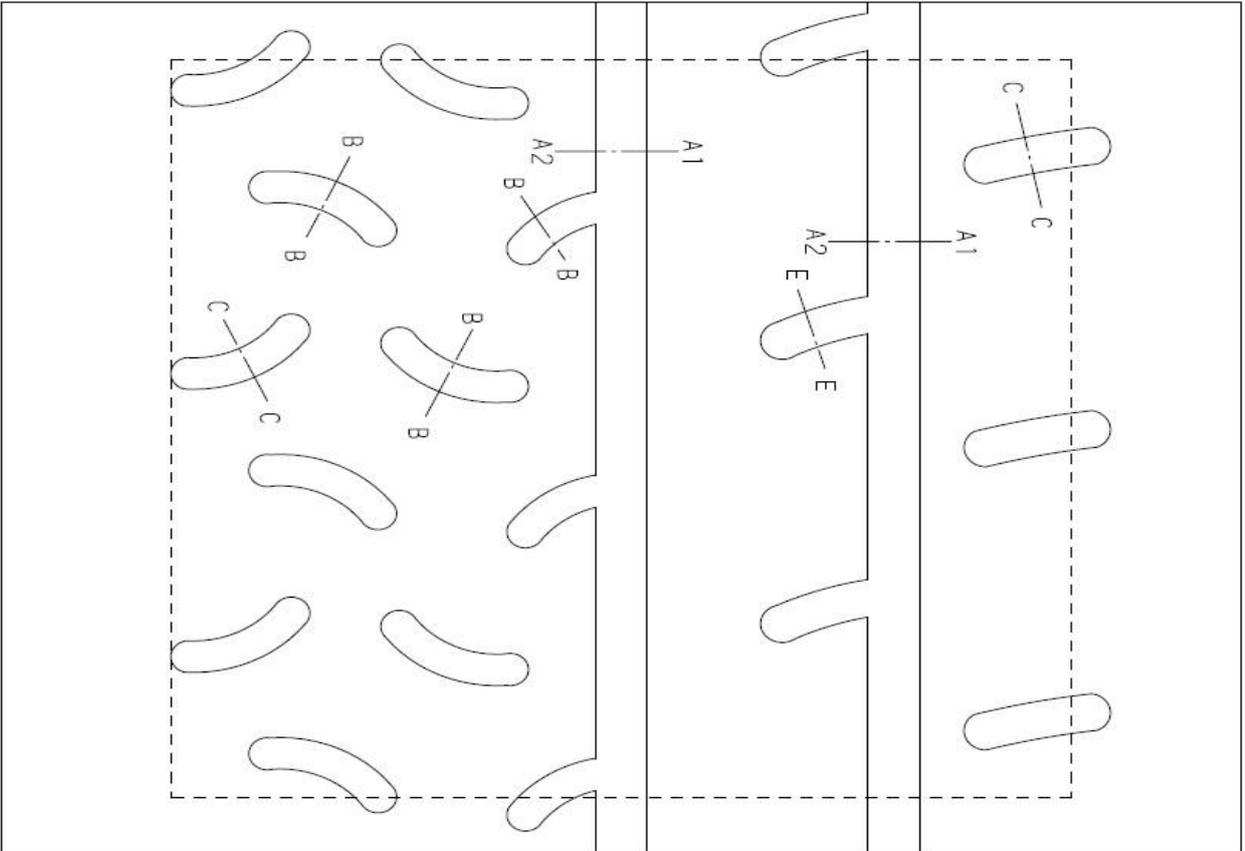
In the control area
 5.5mm grooves - 18.2%
 Total grooves - 22.0%

----- Control area 148X140

PRODUCT NAME
YOKOHAMA ADVAN A051T

PATTERN NAME
A051A

SIZE 190/625R17



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

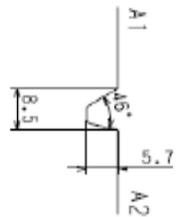
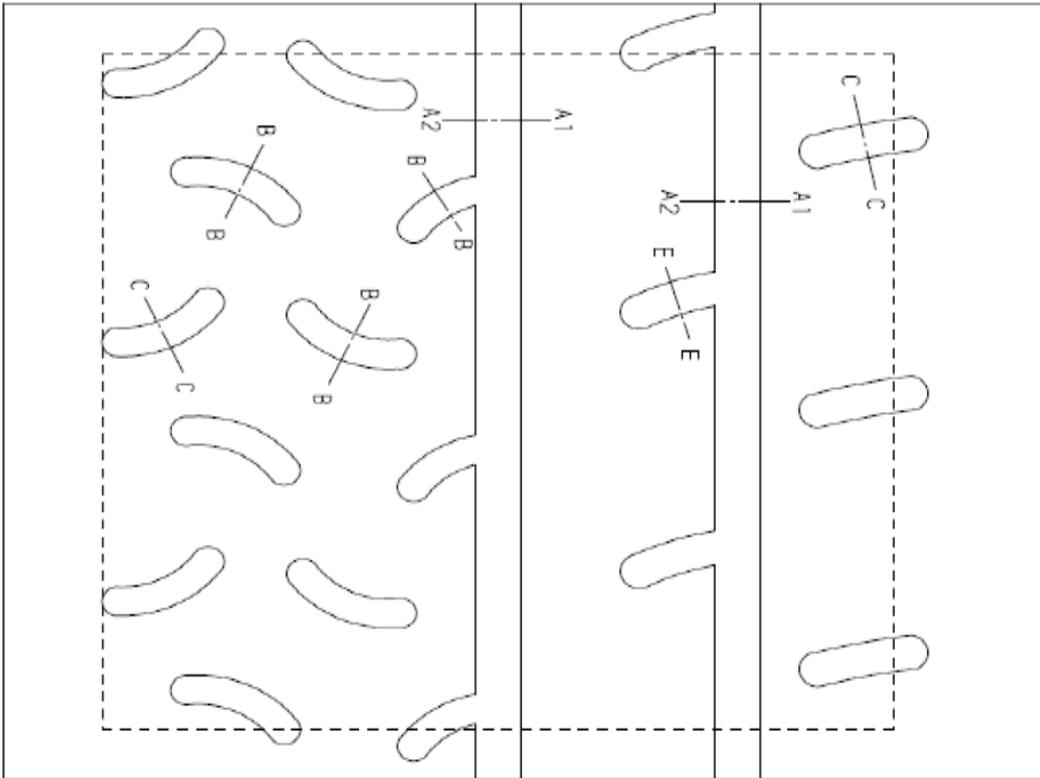
----- Control area 148X140

PRODUCT NAME
YOKOHAMA ADVAN AD51T

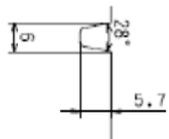
PATTERN NAME
AD51A

SIZE 190/600R16

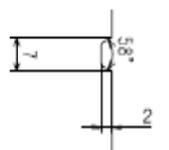
15" – 190/580-15



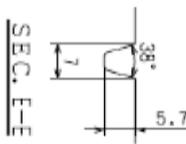
SEC. A1-A2



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

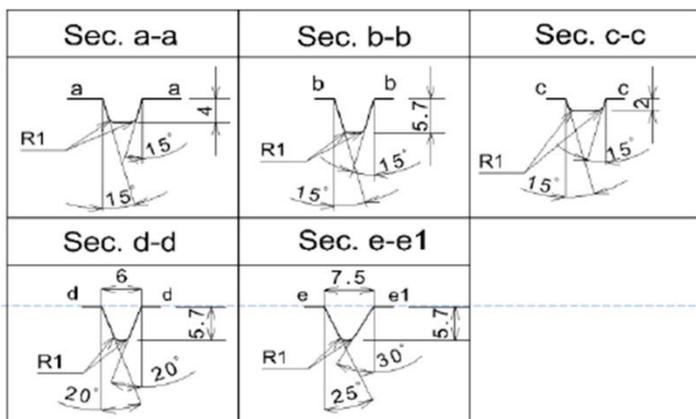
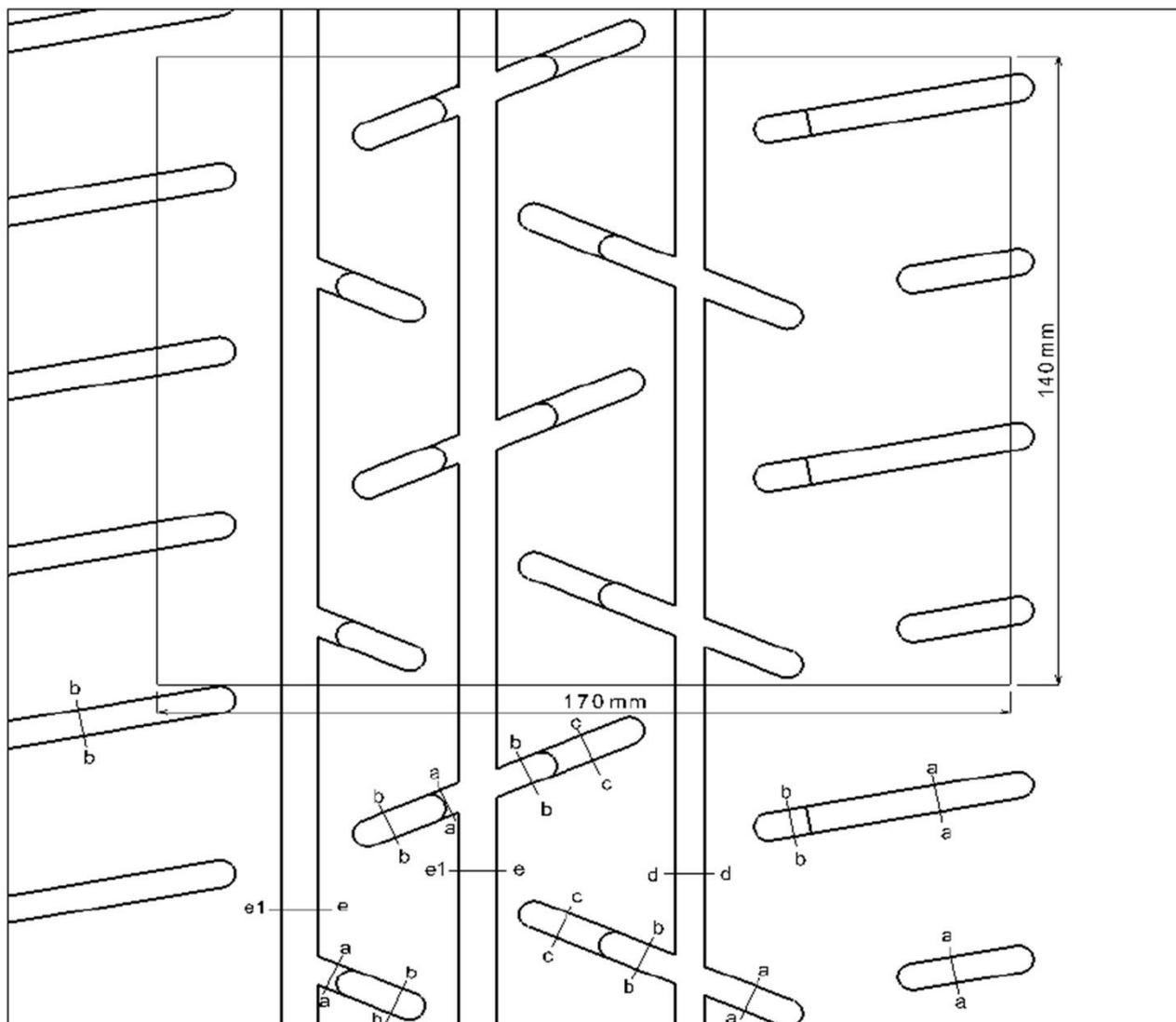
PRODUCT NAME
YOKOHAMA ADVAN AD517

PATTERN NAME
AD51A

SIZE 190/580R15

18" - 210/650R18

Product:Ventus Z205



Class 9" (Rim 8")

Empty Depth > 5.5mm : 17.07%

Empty Depth > 1.8mm : 23.30%

GROOVE SURFACE AREA = 554540 mm²

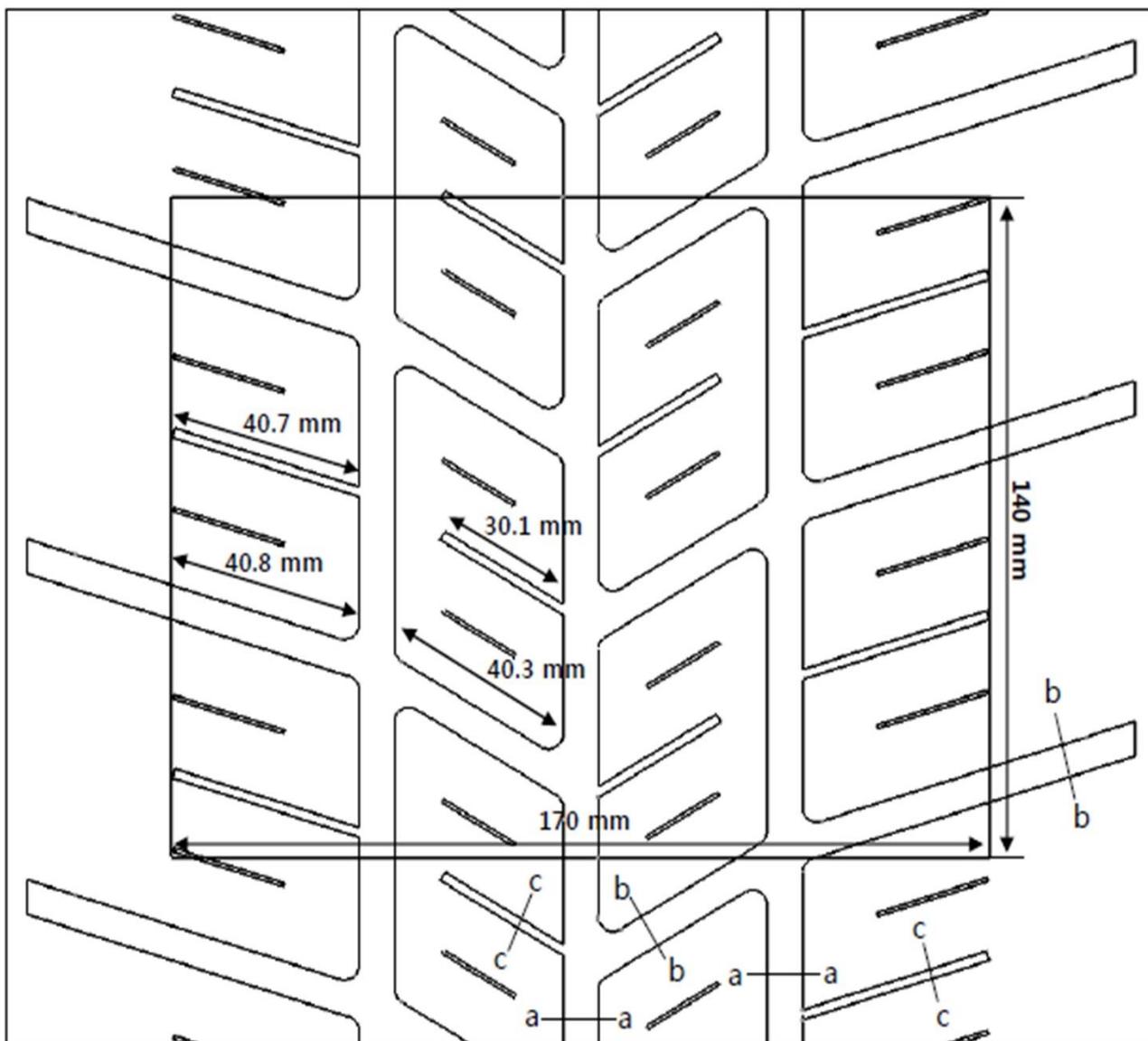
Control Surface = 23800 mm²



HANKOOK

18" - 210/650R18

Product:VentusZ210



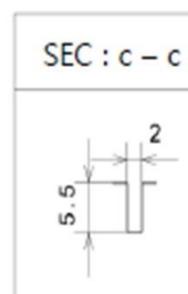
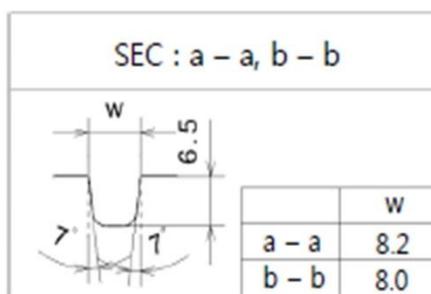
Class 9" (Rim 8")

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

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

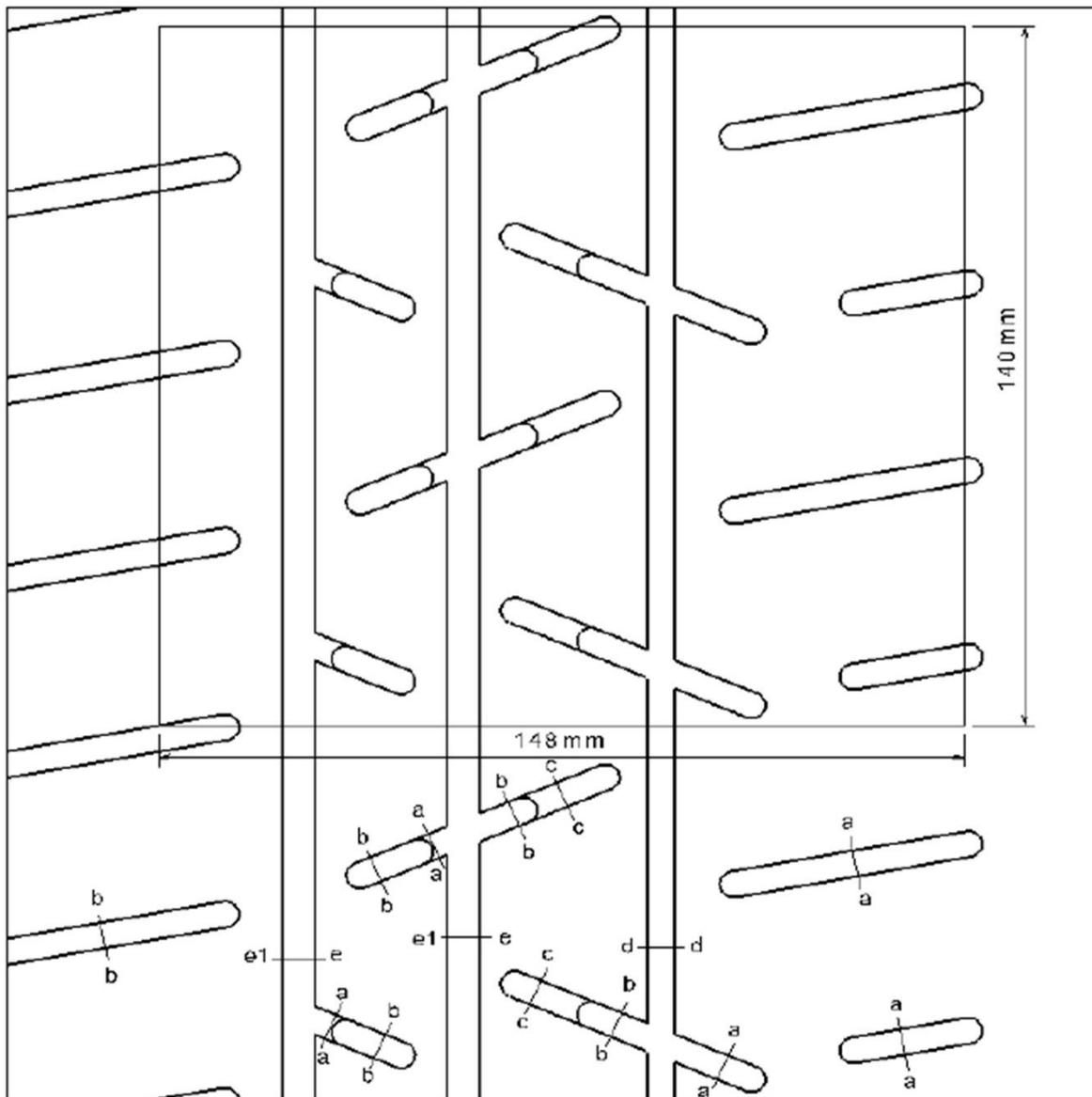
Empty Depth > 5.5mm : 27.5%

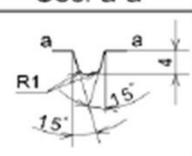
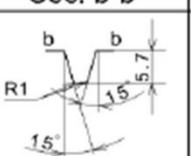
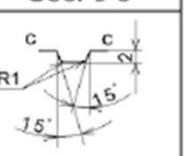
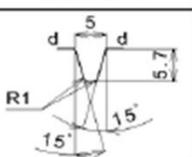
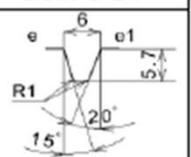
Control Surface = 23800 mm²



17" - 180/625 R17

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%

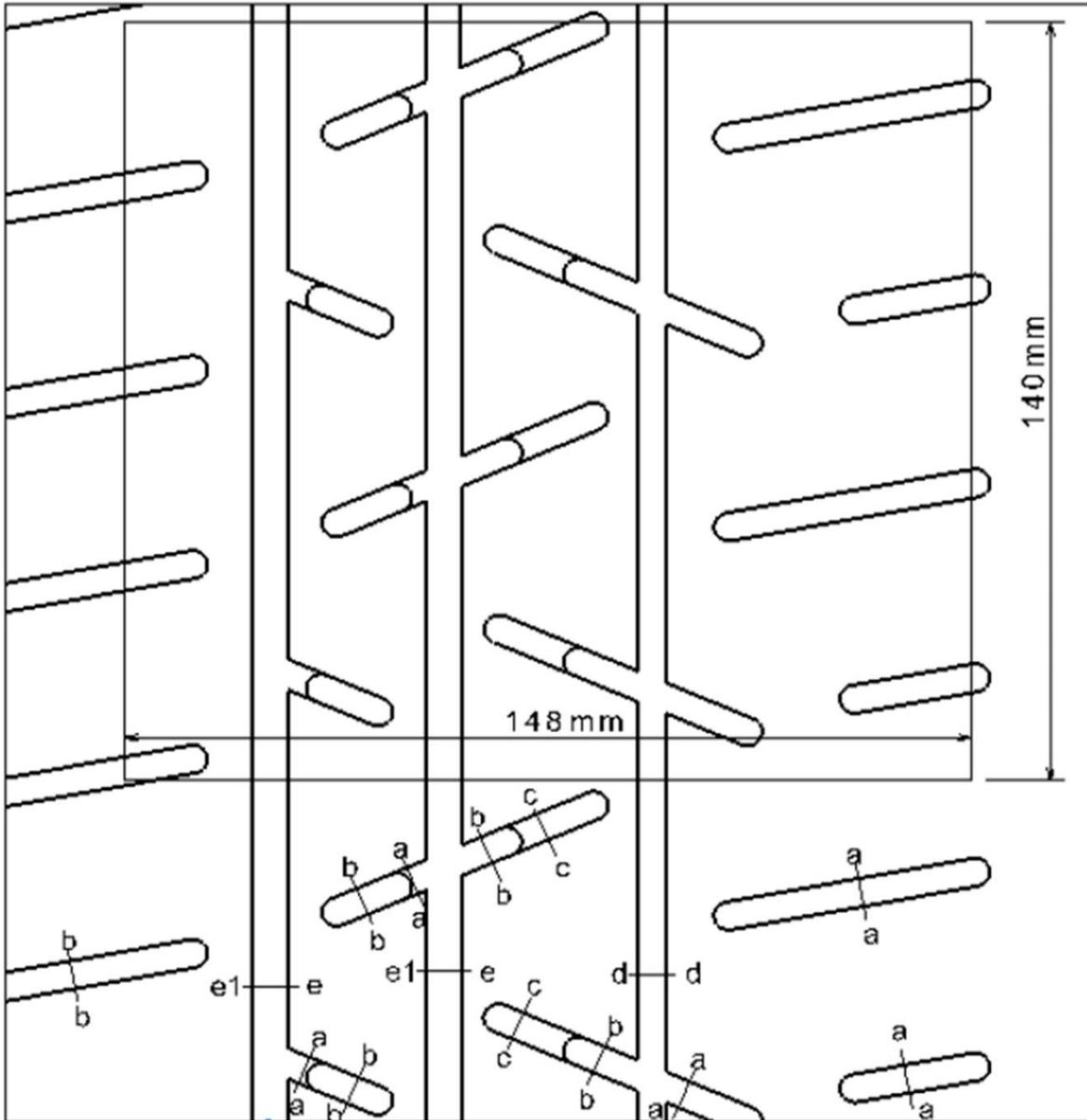
Empty Depth > 1.8mm : 22.48%

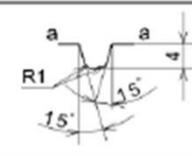
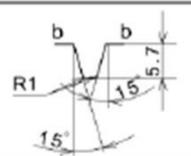
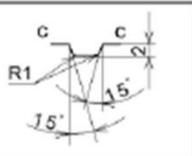
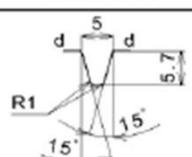
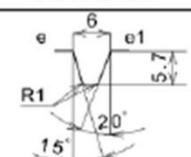
8

GROOVE SURFACE AREA = 353483.2 mm²

Control Surface = 20720 mm²

16" - 180/600R16



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

Class 8" (Rim 6.5")

Empty Depth > 5.5mm : 17.30%

Empty Depth > 1.8mm : 22.95%

GROOVE SURFACE AREA = 358456 mm²

Control Surface = 20720 mm²



18" - 210/645R18

KUMHO TYRES

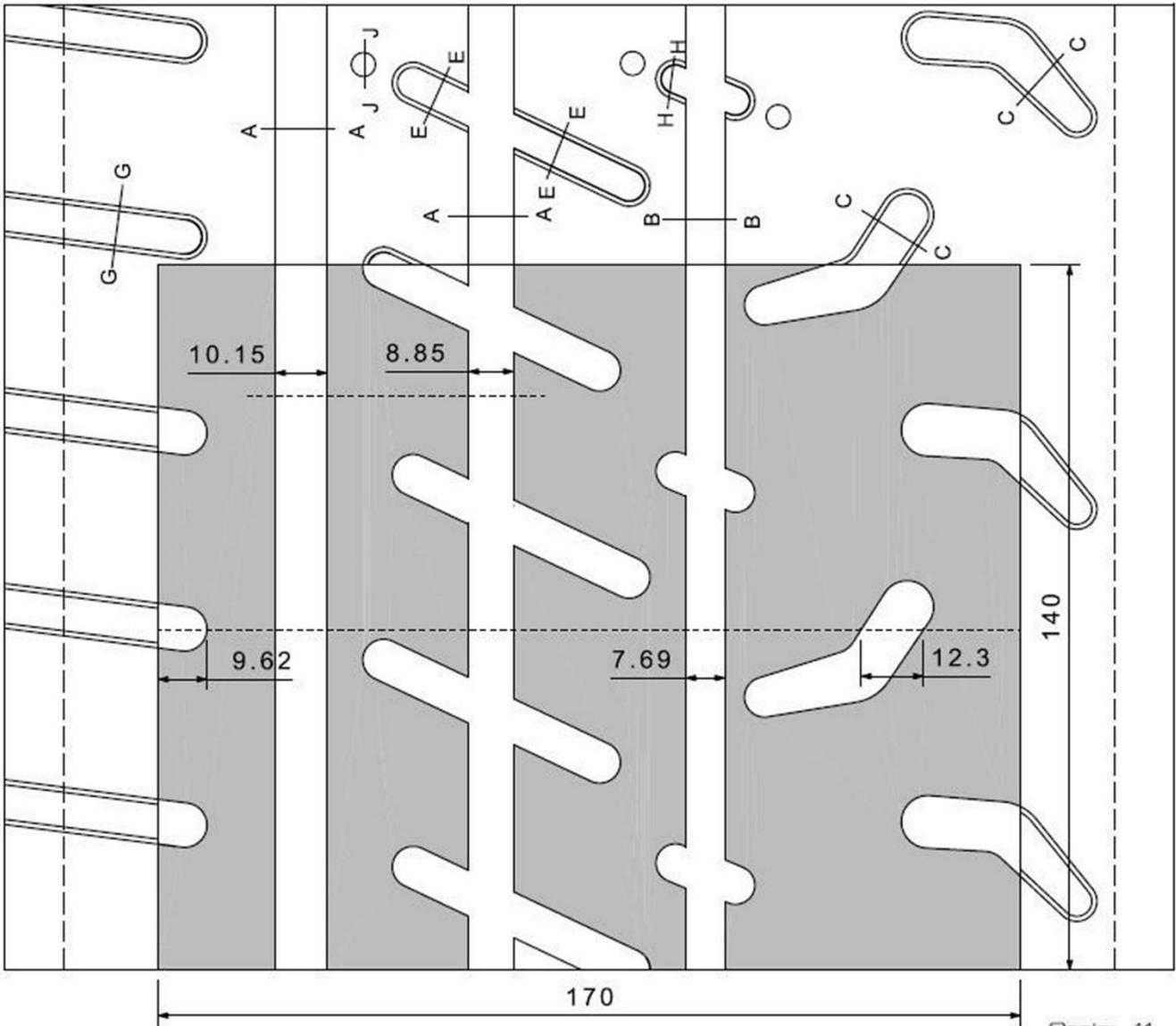
Moulded tyre for FIA homologation

Size : 210/645R18

Pattern : TM01

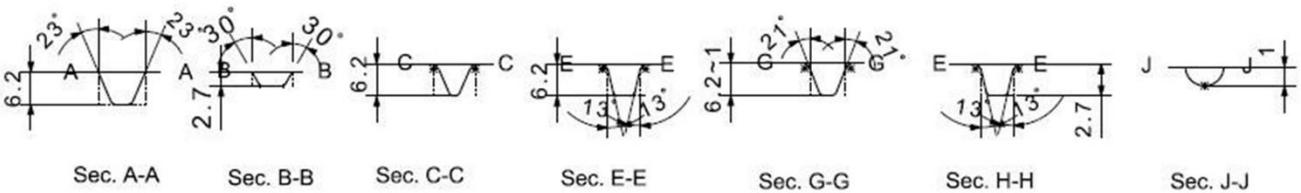
On the basis of a tread pattern width of 170mm and circumference of 140mm

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



Scale 1:1

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%



Sec. A-A

Sec. B-B

Sec. C-C

Sec. E-E

Sec. G-G

Sec. H-H

Sec. J-J



KUMHO TYRES

18" - 210/645R18

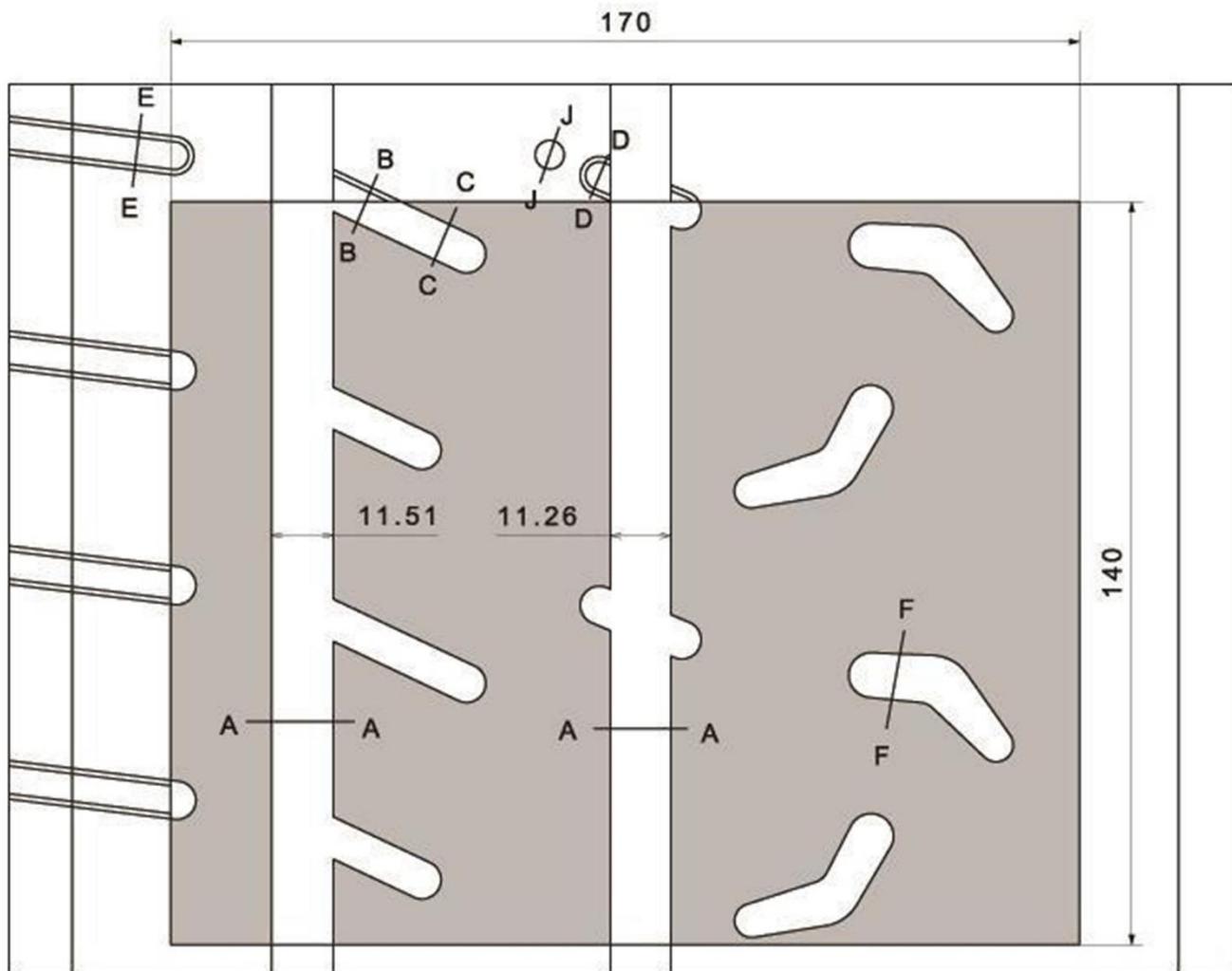
Moulded tyre for FIA homologation

Size : 210/645R18

Pattern : TM02

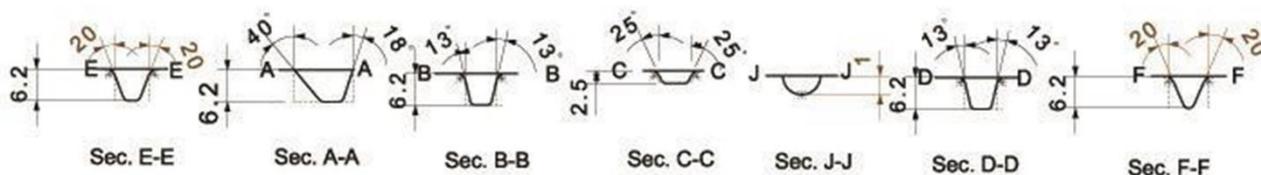
On the basis of a tread pattern width of 170mm and circumference of 140mm

- 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

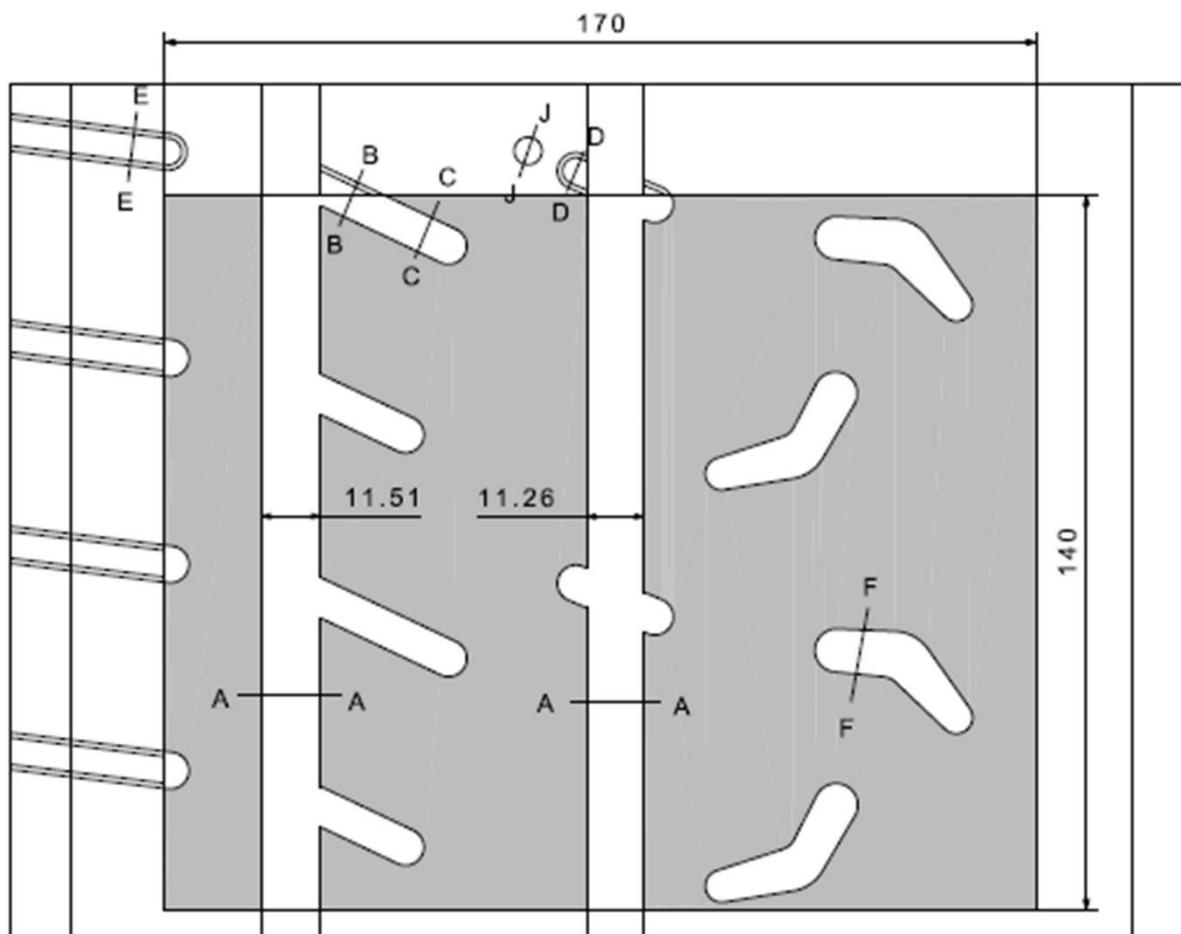
Moulded tyre for FIA homologation

Size : 210/645R18

Pattern : TM02

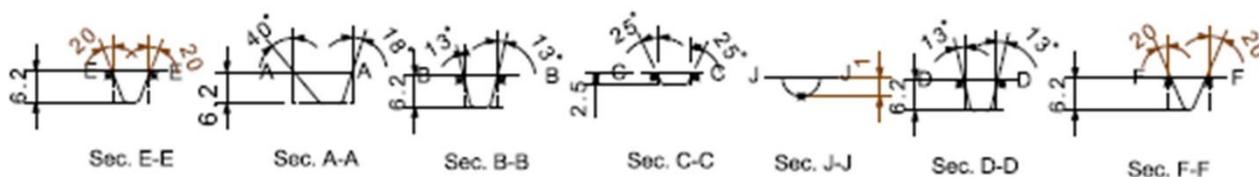
On the basis of a tread pattern width of 170mm and circumference of 140mm

- 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

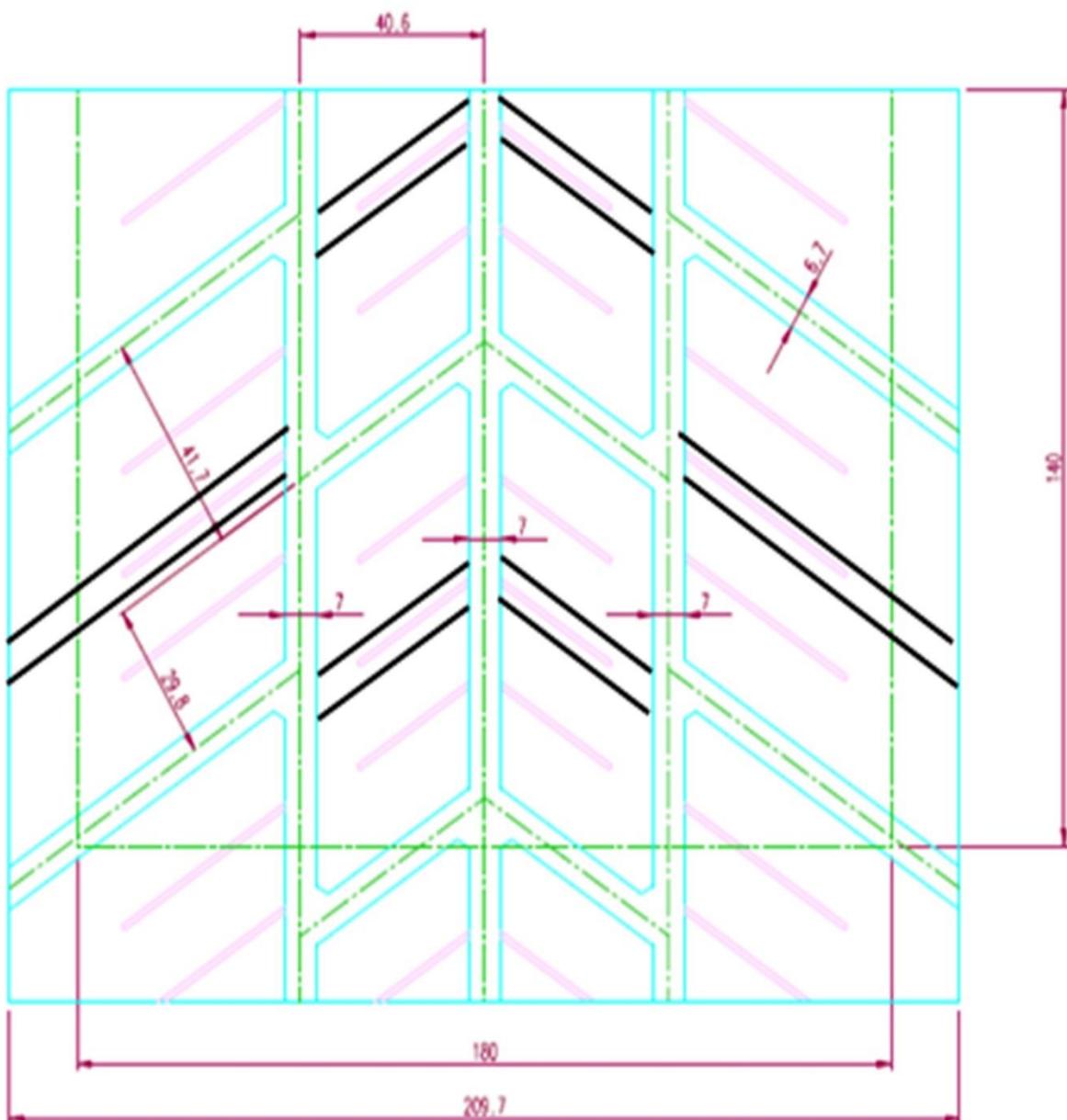
Groove Area by 170 x 140 at least 1.8mm deep : 5159mm²
 Void % : 21.7%
 Groove Area by 170 x 140 at least 5.5mm deep : 4446mm²
 Void % : 18.7%



18" - 210/645R18

VÁLIDO ATÉ 31.12.2017

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





KUMHO TYRES

17" - 190/630R17

NOVO

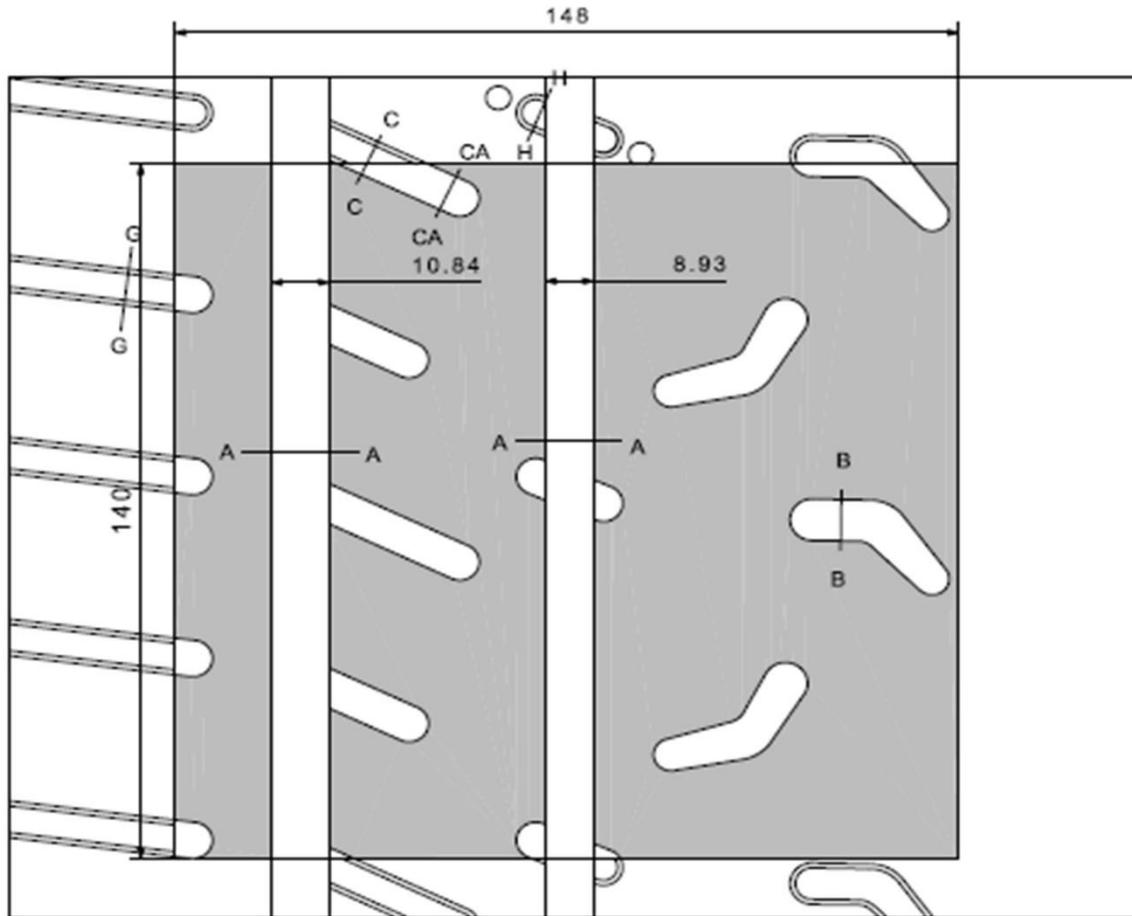
Moulded tyre for FIA homologation

Size : 190/630 R17

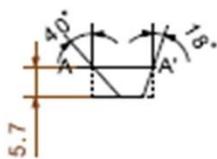
Pattern : TM02

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

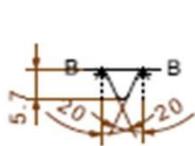
- The surface taken up by grooves at least 5.5 mm deep, with a maximum angle of 60° between the block in section and 2mm wide, must occupy at least 17% of the total surface.
- The surface taken up by grooves at least 1.8 mm deep, with a maximum angle of 60° between the block in section and 2mm wide,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



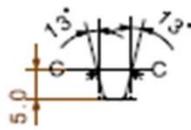
Groove Area by 148 x 140 at least 1.8mm deep : 4579.1mm²
 Void % : 22.1%
 Groove Area by 148 x 140 at least 5.5mm deep : 3688.1mm²
 Void % : 17.8%



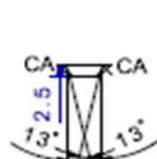
Sec. A-A'



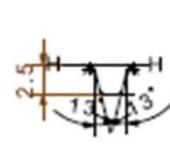
Sec. B-B



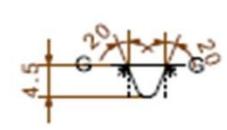
Sec. C-C



Sec. CA-CA



Sec. H-H



Sec. G-G

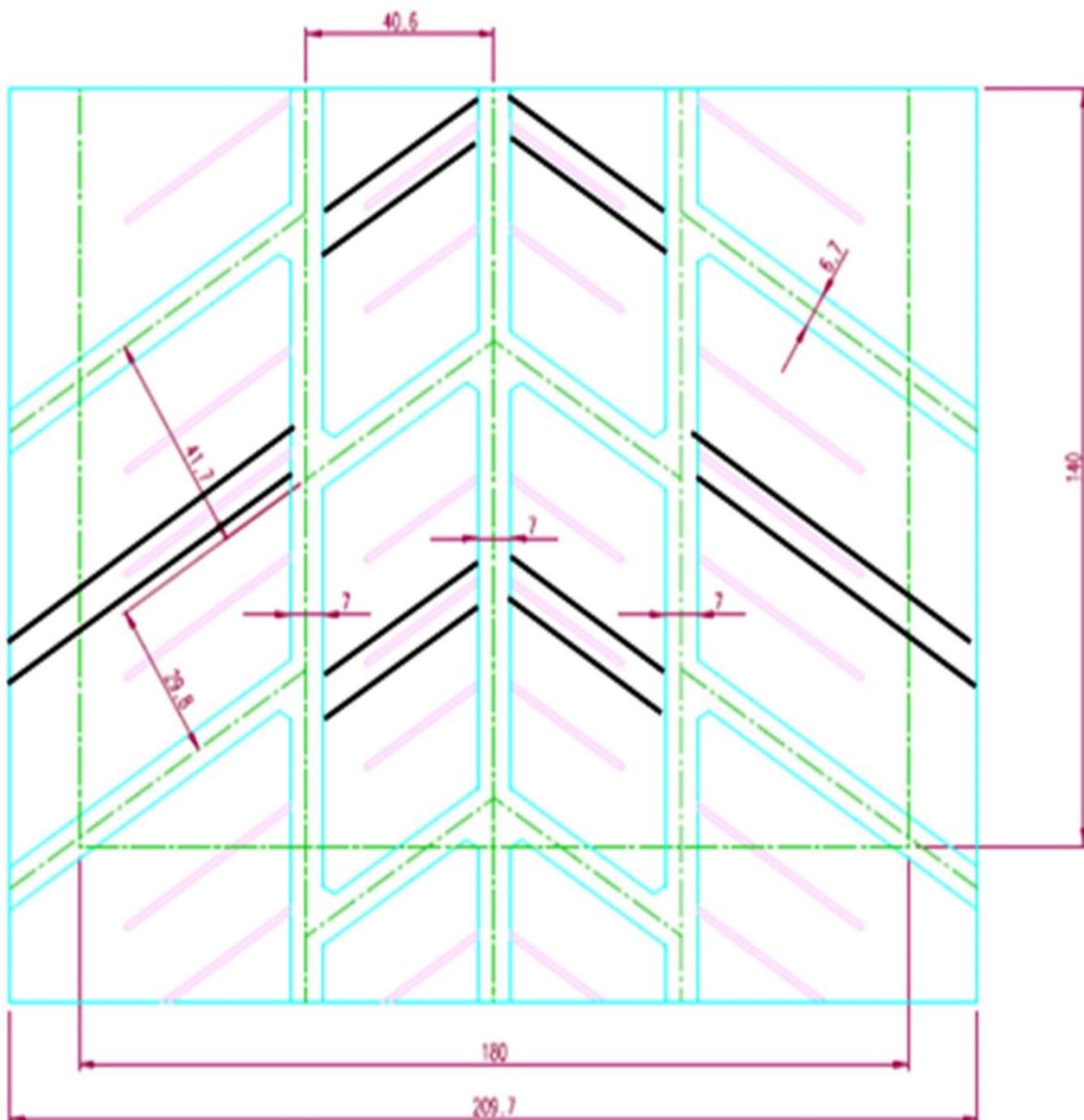
KUMHO TYRES



17" - 210/645R17

VÁLIDO ATÉ 31.12.2017

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





KUMHO TYRES

16" - 190/600R16

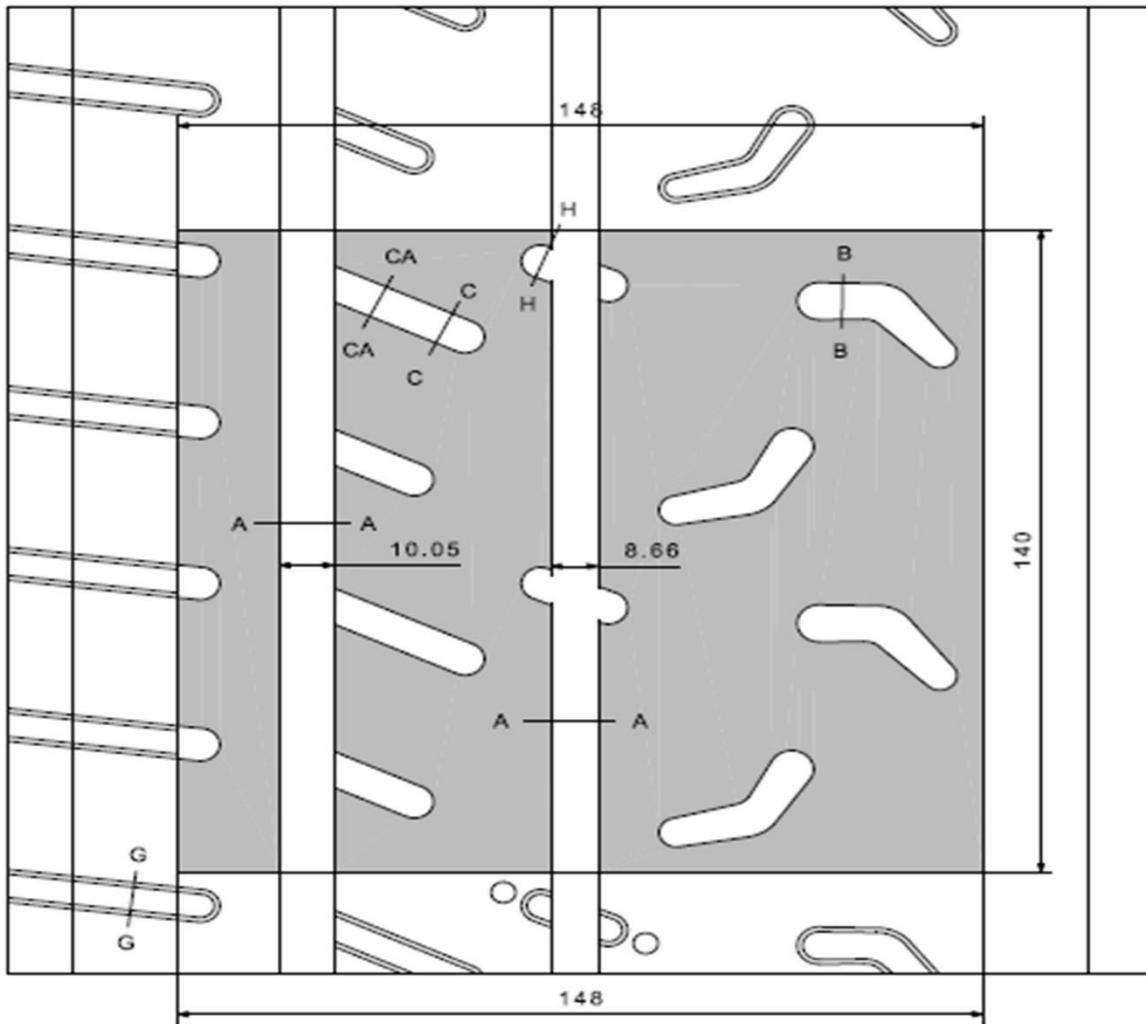
Moulded tyre for FIA homologation

Size : 190/600 R16

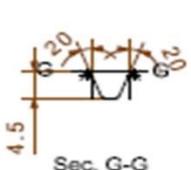
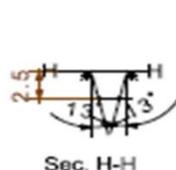
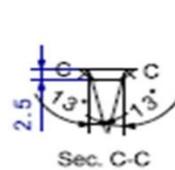
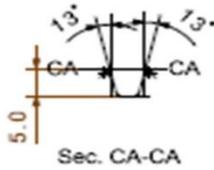
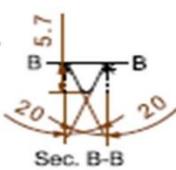
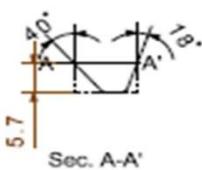
Pattern : TM02

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

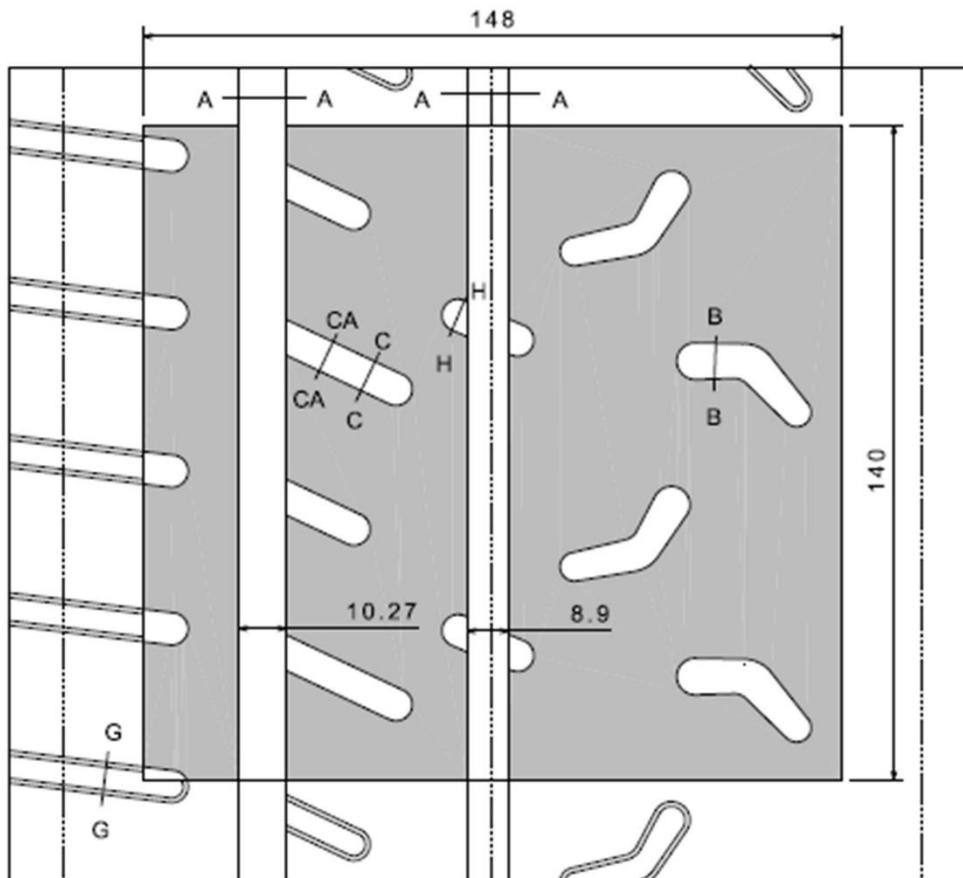
Moulded tyre for FIA homologation

Size : 180/580 R15

Pattern : TM02

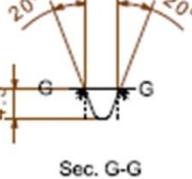
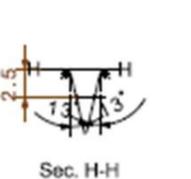
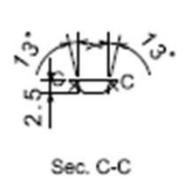
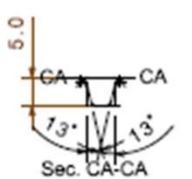
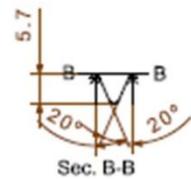
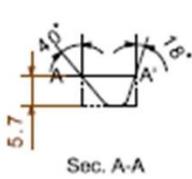
On the basis of a tread pattern width of 148mm and circumference of 140mm

- 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" - 200/650R18

NOVO

