

Publicado em 12.12.2019

Atualizado em 17.09.2020

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 e ainda as viaturas em conformidade com o art.2.7.1.c do CDI.

1.1 - Serão admitidas ainda as viaturas FIA/WRC, em conformidade com o descrito no Art. 4.2.2 do Regulamento Desportivo do CPR.

Terão, no entanto, de se apresentar em conformidade com a regulamentação de segurança FIA em vigor.

VIATURAS ADMITIDAS NO CAMPEONATO DE PORTUGAL de RALIS 2020

CLASSE	GRUPOS		Regulamento	Peso Min (Kg)	Bride Max. (mm)		
RC2	Grupo Rally 2 (R5 (VR5))		Art. 261 - Anexo J	1230	32		
	S2000 (2.0 atmosférico) (a)		Art. 254A - Anexo J 2013	1200	64 ± 0.25		
	Grupo Rally 2 Kit (R4-KIT)		Art. 260E - Anexo J	1230	33		
RC2N	R4 (VR4) não elegível para provas internacionais FIA (Europa) (a)		Art. 260 - Anexo J	1300	33		
	Grupo N (NR4) + de 2000 cm ³ (nominal) (a)		Art. 254 - Anexo J	FH *	- / 33		
RGT (FIA)	RGT (FIA)		Art. 256 - Anexo J	PT RGT (FIA) **	PT RGT (FIA) **		
RALI GT (CPRGT)	RALI GT (FPAK) (b)		Reg. FPAK (CPRGT) + FH	Art. 2 do Reg. Técnico CPRGT	-		
RC3	Grupo A + de 1600 cm ³ a 2000 cm ³ (nominal) (a)		Art. 255 - Anexo J (2019)	Art. 255-4.1	- / 34		
	(VK)-S1600		Art. 255 - Anexo J	1000	60 ± 0.25		
	R3	Atmosf. (cm ³ /nominal)	Turbo (cm ³ /nominal)	Art. 260 - Anexo J 2019	1080	-	
		+ 1600 a 2000	+ 1067 a 1333				
	R3 (VR3T) Turbo até 1620 cm ³ (nominal)		Art. 260D - Anexo J	1080	29		
	R3 (VR3D) Turbo até 2000 cm ³ (nominal) (b)			1150	32		
RC4	RC4A	Grupo Rally 4 (R2)	Atmosf. (cm ³ /nominal)	Turbo (cm ³ /nominal)	Art. 260 - Anexo J (2020) (VIATURAS HOMOLOGADAS A PARTIR DE 01/01/2019)	Art. 260-201.1	-
			+ 1600 a 2000	+ 1067 a 1333			
	RC4B	Grupo Rally 4 /R2	Atmosf. (cm ³ /nominal)	Turbo (cm ³ /nominal)	Art. 260 - Anexo J 2020 (GR.Rally 4- VIATURAS HOMOLOGADAS A PARTIR DE 01/01/2019)	Art. 260-201.1 de 2020	-
			+ 1390 a 1600	+ 927 a 1067	Art. 260 - Anexo J 2018 (GR.R2-VIATURAS HOMOLOGADAS ANTES DE 31-12-2018)	Art.260-201.1 de 2018	

		Kit Car (VK) até 1600 cm ³ (b)		Art. 255 - Anexo J	Art. 255-6.2	-
		Grupo A até 1600 cm ³ (nominal) (a)		Art. 255 - Anexo J (2019)	Art. 255-4.1	-
RC5	Grupo Rally 5 (atmosf. até 1600cc e turbo até 1333 cc)	Atmosf. (cm ³ / nominal)	Turbo (cm ³ / nominal)	Conforme Art. 260 - Anexo J 2020 (VIATURAS HOMOLOGADAS A PARTIR DE 01/01/2019)	Art.260-201.1 de 2020	-
		até 1600	até 1333			
	Grupo Rally 5 R1 (atmosf. até 1600cc e turbo até 1067cc)	Atmosf. (cm ³ / nominal)	Turbo (cm ³ / nominal)	Grupo R1 conforme Art. 260 - Anexo J 2018 (VIATURAS HOMOLOGADAS ANTES DE 31/12/2018)	Art.260-201.1 de 2018	-
		até 1600	até 1067			

* conforme o peso mencionado na ficha de homologação

** conforme passaporte técnico RGT (FIA)

1) São autorizadas as viaturas que disponham de Fichas de Homologação (FH), FIA ou FPAK, sendo que nas provas Internacionais a FH terá de ser FIA

(a) **Estas viaturas não são consideradas como elegíveis para as provas do WRC, em conformidade com o artigo com o quadro em anexo**

(b) **Estas viaturas somente estão elegíveis para o CPR, não sendo consideradas para o WRC, ERC, ERT e IRT**

1.2 - Quadro de viaturas admitidas para o WRC 2020 (Rali de Portugal)

4.3 Eligible cars

CLASSES		GROUPS
RC1	World Rally Cars: 1.6 T engine	<ul style="list-style-type: none"> - World Rally Cars, complying with the 2020 Appendix J, Art. 255A, when driven by a driver who has obtained the approval of the FIA. - World Rally Cars homologated before 31/12/2013, complying with homologation extension 100/01 KSR and its WR extension, and with the 2013 Appendix J, Art. 255A. Only WRC cars with an FIA passport issued before 31/12/2016 are allowed. - World Rally Cars homologated as from 01/01/2014, complying with homologation extension 200/01 WRC and with the 2016 Appendix J, Art. 255A. Only WRC cars with an FIA passport issued before 31/12/2016 are allowed. - World Rally Cars homologated as from 01/01/2015, complying with homologation extension 300/01 WRC and with the 2016 Appendix J, Art. 255A. Only WRC cars with an FIA passport issued before 31/12/2016 are allowed.
RC2	Group Rally2 Group Rally2 Kit	<ul style="list-style-type: none"> - Group Rally2 cars conforming to the 2020 Appendix J, Art. 261. - Car fitted with Rally2 Kit cars conforming to the 2020 Appendix J, Art. 260E.
RGT	RGT cars	<ul style="list-style-type: none"> - Group RGT cars conforming to the 2019 Appendix J, Art. 256. - Group RGT cars conforming to the 2020 Appendix J, Art. 256.
RC3	R3 (atmo / over 1600cc and up to 2000cc and turbo over 1067cc and up to 1333cc)	- Group R cars homologated before 31/12/19 and conforming to the 2019 Appendix J, Art. 260.
	R3 (turbo / up to 1620cc / nominal)	- Group R cars homologated before 31/12/19 and conforming to the 2020 Appendix J, Art. 260D.
RC4	RC4A Rally4 (atmo over 1600cc and up to 2000cc and turbo over 1067cc and up to 1333cc)	- Group Rally4 cars homologated from 01/01/19 and conforming to the 2020 Appendix J, Art. 260.
	RC4B Rally4 (atmo over 1390cc and up to 1600cc – and turbo over 927cc and up to 1067cc)	<ul style="list-style-type: none"> - Group Rally4 cars homologated from 01/01/19 and conforming to the 2020 Appendix J, Art. 260. - Group R2 cars homologated before 21/12/2018 and conforming to the 2018 Appendix J, Art. 260.
RC5	Rally5 (atmo up to 1600cc and turbo up to 1333cc)	- Group Rally5 cars homologated from 01/01/19 and conforming to the 2020 Appendix J, Art. 260.
	Rally5 (atmo up to 1600cc and turbo up to 1067cc)	- Group R1 cars homologated before 31/12/2018 conforming to the 2018 Appendix J, Art. 260 (VR1A and VR1B homologated before 31/12/2018).

2.2 - O peso mínimo da viatura nas condições do Art. 255 - 4.1; 260-201.3 & 4 & 5; 260D-201.3 & 4; 260E-201.4 e 261-201.4 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, (Art. 255-6-2) 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.

3.1.1 - Sistemas Instalados (Extinção automática)

a) Em conformidade com o Art.253-7.1.1 do Anexo J de 2020 as viaturas **R1, R2, R3**, que participem em provas FIA (WRC/ERC/ERT/IRT), estão obrigadas a utilizar o sistema com a norma FIA 8865-2015 (LT nº 52), nomeadamente nas seguintes provas do CPR:

Rali Serras de Fafe, Rali dos Açores, Vodafone Rali de Portugal, Rali Vinho da Madeira, Rali Casinos do Algarve.

b) Para as restantes provas que constituem o CPR, poderão utilizar o sistema instalado (Extinção automática) com a norma FIA 1999 (LT nº 16), só durante o ano de 2020.

c) Para o ano de 2021 será obrigatório o uso do sistema instalado (norma FIA 8865-2015 - LT nº 52) em todas as provas do CPR.

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-FHR) - 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). **(consultar Anexo I - compatibilidade)**

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.

(Anexo IV) e cujo desenho do piso é apresentado no **(Anexo V)** 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.

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

- Todas as viaturas dos concorrentes que disputem provas do CPR (Terra ou Asfalto), independentemente de estarem ou não inscritos no mesmo, poderão utilizar até **10 pneus** por prova, os quais serão objeto de verificação e marcação.

- Exclusivamente para as **"Free Practice" Shakedown, QS ou Super Especiais** das provas em piso de terra ou asfalto, os pneus utilizados não serão objeto de marcação.

- Todos os concorrentes disputando provas do CPR têm de preencher um formulário referenciando quais os pneus a utilizar até ao número máximo permitido (conforme formulário em **Anexo III**).

- Tal facto não é impeditivo de controle e marcação de Pneus.

- O controle de Pneus poderá ser efectuado à saída do **PA**, num **Reagrupamento** ou no final de qualquer uma das **PEC** que compõem o Rali.

4.6.1 - Provas Internacionais - que integram o CPR, nestas, o procedimento para a marcação de pneus segue

a regulamentação própria dos campeonatos onde se inserem.

a) Independentemente de estarem inscritos no CPR ou não, os concorrentes Nacionais, participantes nas provas do WRC/ERC/ERT, terão de preencher o formulário de Pneus a utilizar e entregar o mesmo ao DT FPAK.

b) Serão objecto de controle da quantidade e identificação dos pneus utilizados nas viaturas com que iniciam a secção de PEC, bem como com que a terminam.

Quer dizer que, quer se apresentem com cinco ou seis pneus no início da secção, terão de regressar com os mesmos pneus com que iniciaram essa secção.

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.

Art. 6 - SELAGEM TURBOCOMPRESSOR (VULGO TURBO)

6.1 - É obrigatório para as viaturas com turbocompressor (vulgo Turbo), que nas VTI o "Turbo" esteja em conformidade e respeite a localização dos pontos de passagem do fio de selagem conforme se descreve no **Anexo II**.

Art. 7 - Passaporte Técnico FPAK

Todas as viaturas terão, obrigatoriamente, de ter um passaporte técnico emitido pela FPAK.

Poderão ainda apresentar um passaporte técnico FIA ou proveniente de outra ADN, desde que de forma pontual. Sempre que um concorrente inscrito no Campeonato/Taça/..., participe em mais do que duas provas com a mesma viatura com PT de outra ADN ou FIA, terá de requerer um PT FPAK de modo a ser efetuada uma monitorização da referida viatura ([conforme Artigo 10.2.2 das PGAK](#)).

ANEXO I

COMPATIBILIDADE CAPACETES SISTEMA (HANS-FHR)

in compliance with
FIA standard 8858-2002
Manufacturer: xxxxxx
Model: xxxxxx

FIA 8858-2002 FIA 8858-2010

Helmet tether anchorages
fitted by the manufacturer
In compliance with
FIA standard 8858-2002

FIA Standard 8860-2004
Manufacturer: Helmet Inc.
Model: XXXXXXX
Size: XX

FIA 8858-2010

FIA 8858-2002

FIA 8858-2002
FIA 8860-2004

in compliance with
FIA Standard 8858-2010

Manufacturer: FIA
Model: 8858-2010
Homologation No: FHE000000-X
Serial No:

in compliance with
FIA Standard 8859-2010

Manufacturer: Helm, Name of Manufacturer
Serial No: xxx xxx
Model Name
Homologation No: FHE000000-X
Date of Manufacture: JAN 2010

FIA 8858-2010

FIA 8858-2002

in compliance with
FIA Standard 8858-2010

Manufacturer: Helm, Name of Manufacturer
Serial No: xxx xxx
Model Name
Homologation No: FHE000000-X
Date of Manufacture: JAN 2010

in compliance with
FIA Standard 8860-2004

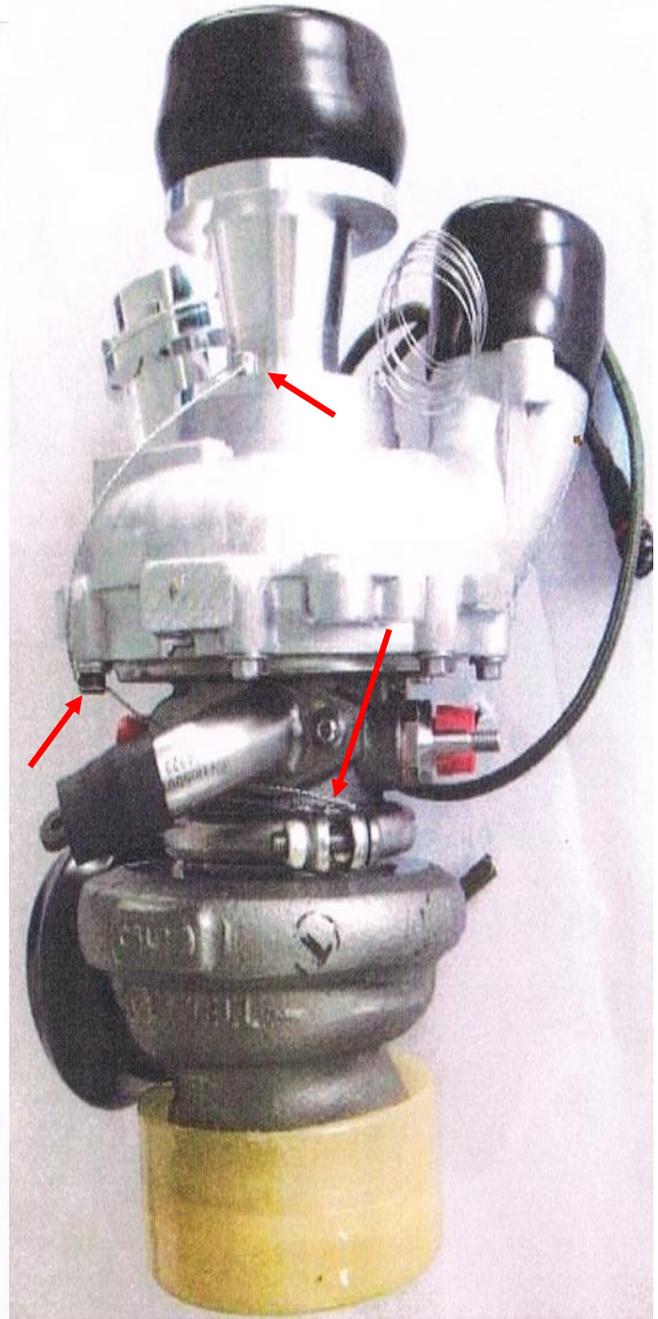
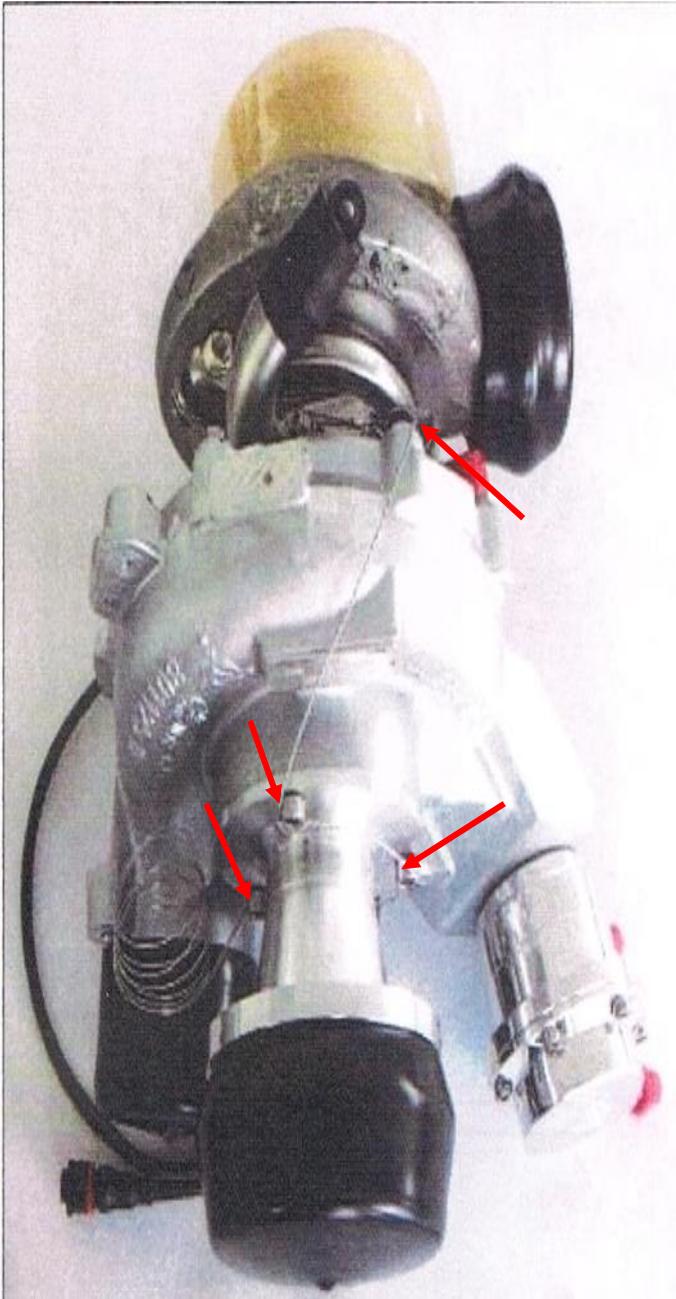
Manufacturer: Helm, Name of Manufacturer
Serial No: xxx xxx
Model Name
Homologation No: FHE000000-X
Date of Manufacture: JAN 2010

FIA 8858-2010

FIA 8858-2002

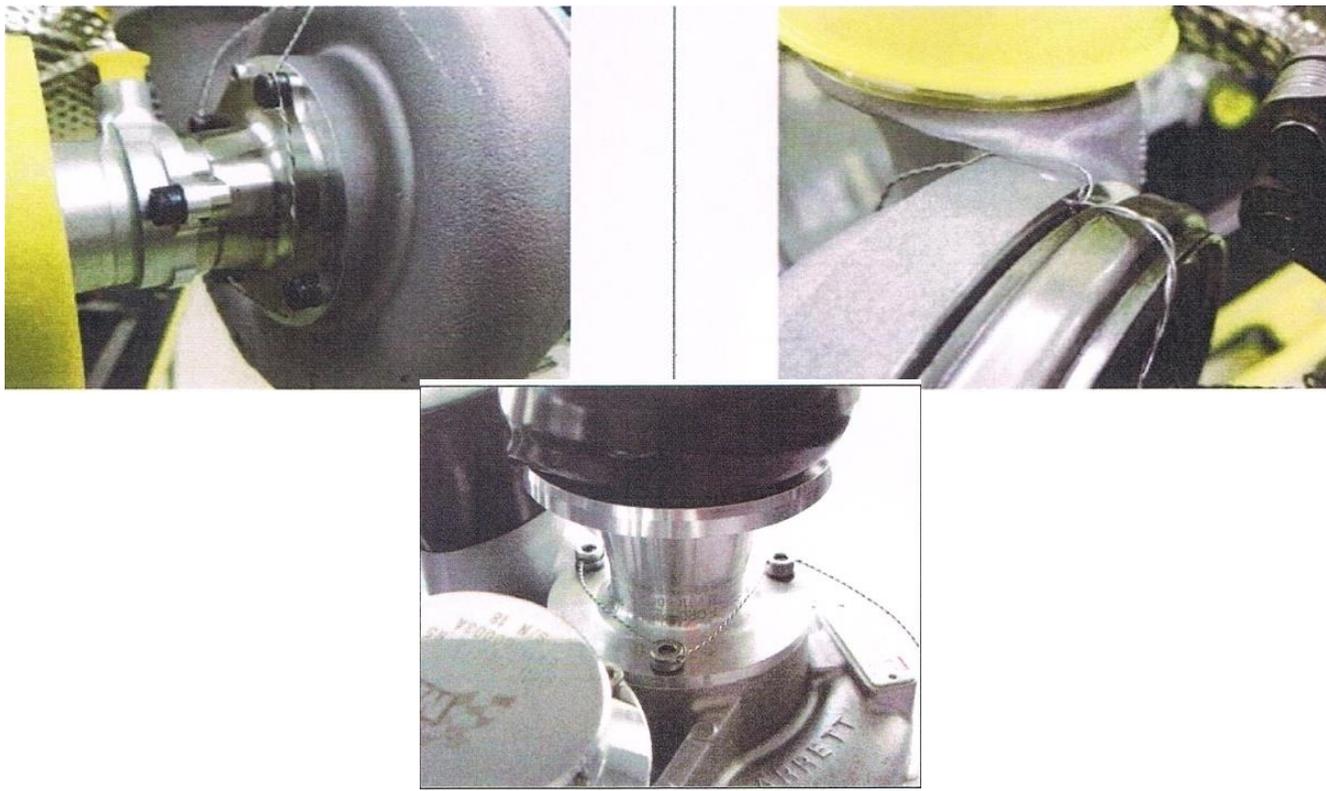
FIA 8859-2010
FIA 8858-2010
FIA 8860-2010

ANEXO II
SELAGEM DO TURBOCOMPRESSOR (TURBO)

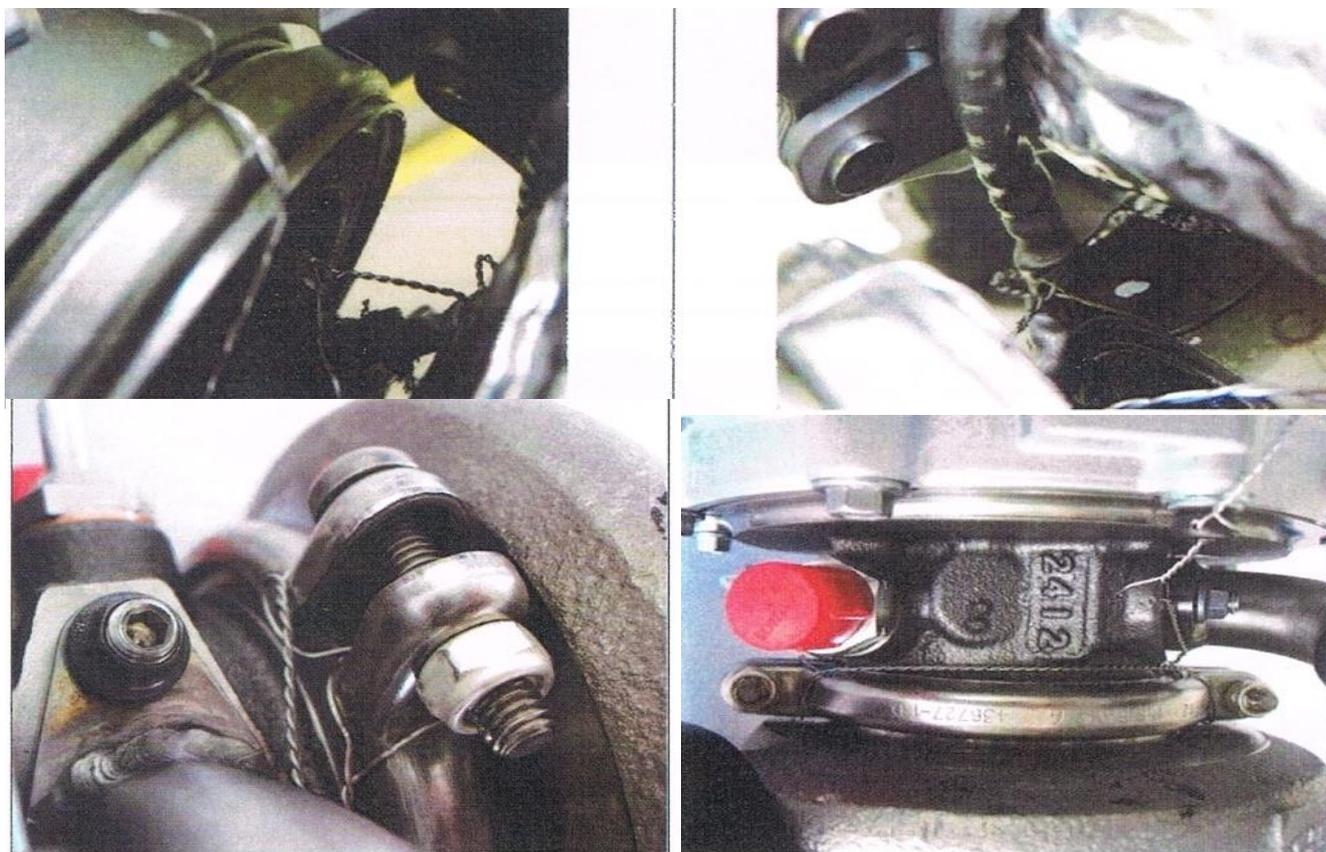


ZOOM DE PONTOS DE PASSAGEM DO FIO DE SELAGEM

LADO DO COMPRESSOR



LADO DA TURBINA



ANEXO III



CPR/WRC/ERT (CONCORRENTES NACIONAIS) DECLARAÇÃO DE PNEUS

CONCORRENTE Nº:

Eu., com o número de licença e como concorrente da viatura com o número referenciado acima , declaro que os códigos de barras dos pneus que a utilizar na Secção nº serão:

Pneu 1:

Pneu 2:

Pneu 3:

Pneu 4:

Pneu Suplente 5:

Pneu Suplente 6:

E para que assim conste assino a presente, de de

Assinatura.:

Nº de licença:

ANEXO IV
PNEUS DE ASFALTO SEGUNDO LISTA CPR 2020

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"	20 / 65 - 18	Rallye Asphalte Wet
18"	18/ 65 - 18	Pilot Sport FW3(WRC Wet)
18"	24 / 65 - 18	Rally Asphalt - RGT-FIA(frt.drt)
18"	24 / 65 - 18	Rally Asphalt - RGT-FIA(frt.esq)
18"	24/ 65-18	Rally Asphalt – RGT-FIA
18"	29 / 65 - 18	Rally Asphalt - RGT-FIA(tras drt)
18"	29 / 65 - 18	Rally Asphalt - RGT-FIA(tras esq)
18"	29 / 65-18	Rally Asphalt - RGT
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	RW
16"	195 / 50-16	RK
17"	205 / 45-17	RK
18"	235 / 40-18	RA
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		
15"	200 / 580R15	VENTUS Z205
16"	180 / 600 R16	VENTUS Z205
17"	210 / 625R17	VENTUS Z205
17"	180 / 625 R17	VENTUS Z205

18"	210 / 650 R18	VENTUS Z205
18"	210 / 650 R18	VENTUS Z210
KUMHO TYRES		
15"	180 / 580 R15	TM 02
16"	190 / 600 R16	TM 02
17"	190 / 630 R17	TM 02
18"	210 / 645 R18	TM 01
18"	210 / 645 R18	TM 02
18"	210 / 645 R18	TM 02
18"	210 / 645 R18	TW 03
HOOSIER RACING TIRE		
15"	185 / 580 R15	ROAD RALLY
16"	195 / 50R16	TARMAC RALLY
16"	195 / 50R16	TARMAC RALLY
17"	195 / 50R17	TARMAC RALLY
17"	195 / 50R17	TARMAC RALLY
18"	200 / 650 R18	ROAD RALLY
18"	225 / 40 R18	RALLY TARMAC
18"	225 / 40 R18	RALLY TARMAC
TOYO TIRES		
15"	185 / 580 R15	PROXES 888RT
16"	185 / 600 R16	PROXES 888RT
18"	205 / 640 R18	PROXES 888RT
MRF TYRES		
15"	195 / 50 R15	ZTA1 TL
16"	195 / 50 R16	ZTA1 TL
17"	205 / 45 R17	ZTA1 TL
18"	235 / 40 R18	ZWR1 TL
18"	235 / 40 R18	ZTA1 TL
COOPER TYRES		
15"	195 / 50 R15	
16"	195 / 50 R16	
17"	205 / 45 R17	
18"	225 / 40 - 18	
MAXSPORT – COMPETITION TYRES		
15"	195 / 50-R15	RB6
17"	224 / 45-R17	RB6
18"	225 / 40-R18	RB6
DUNLOP		
16"	200 / 600 – R16	DIREZZA 94R

17"	190 / 625 – R17	DIREZZA 94R
18"	210 / 650 – R18	DIREZZA 94R
XTREME – PERFORMANCE TYRES		
18"	20 / 65-R18 R-GT	EXTREME VRC
18"	28 / 66-R18 R-GT	EXTREME VRC

ANEXO V

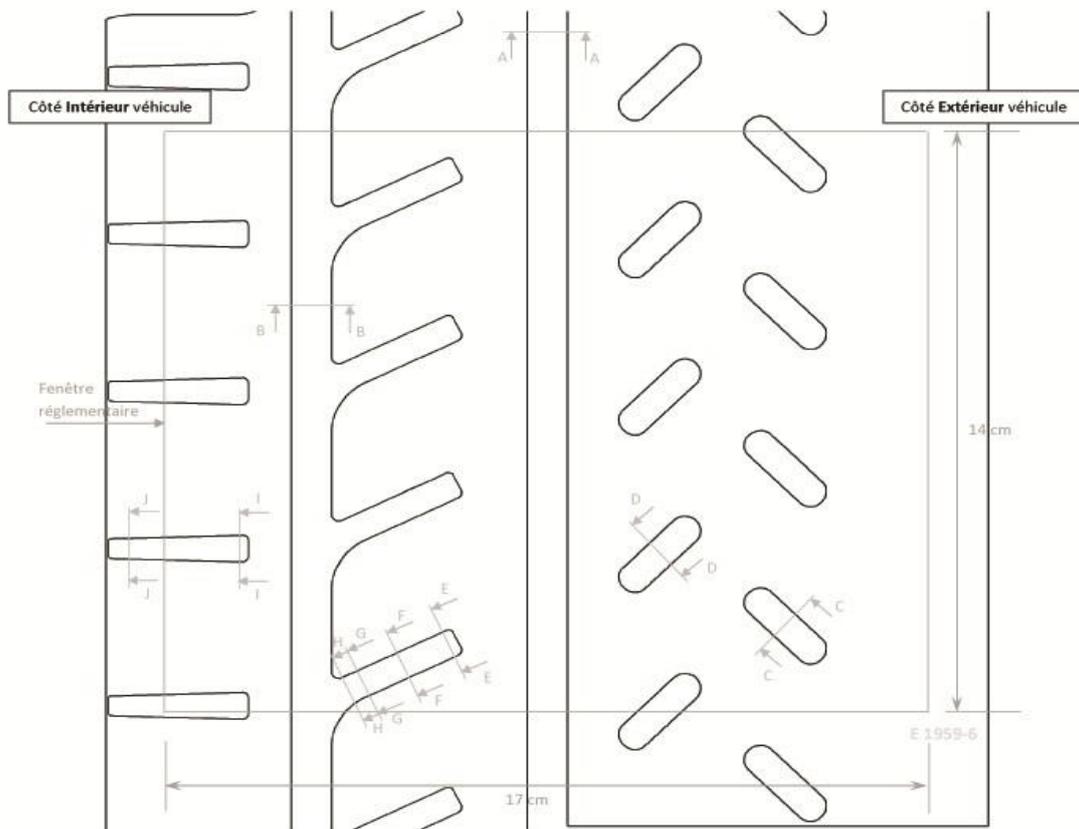
DESENHOS DO PISO DOS PNEUS DE ASFALTO LISTA CPR 2018

18" - 20/65-18

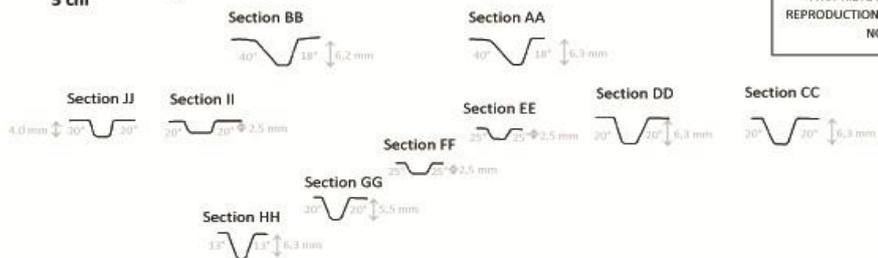


Domaine : Rallye Asphalte
 Dimension : 20 / 65 - 18
 Plan de la sculpture : Pilot Sport R
 Entaillement Surfaccique dans fenêtre réglementaire : 21,51 %

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

18" - 20/65-18



Domaine : Rallye Asphalte Wet

Dimension : 20 / 65 - 18

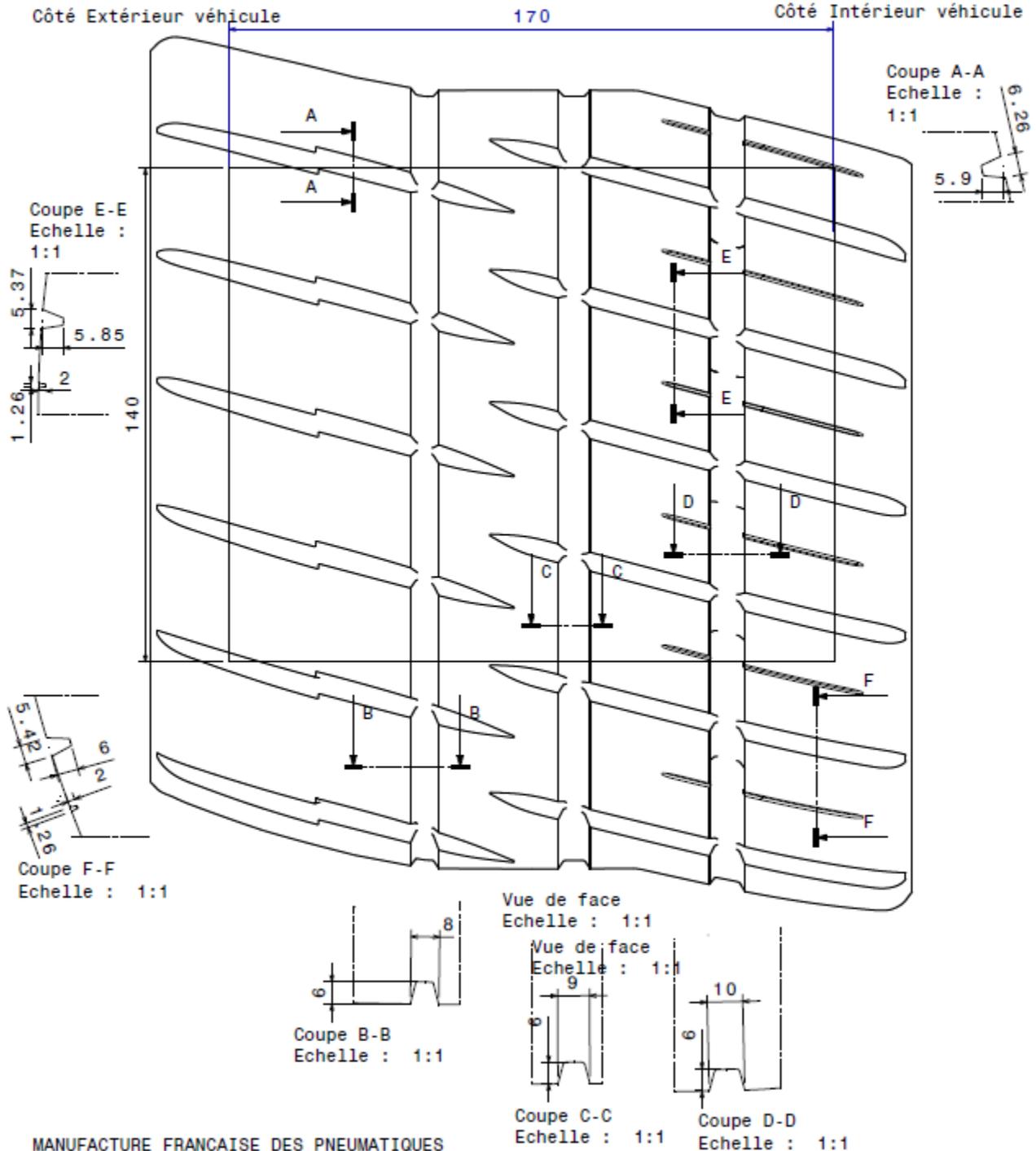
Plan de la sculpture : Pilot Sport A MW1

Entaillement Surfaceutique dans fenêtre

règlementaire > ou = 27.5 % avec les entailles > 1.8 mm de profondeur comme avec les entailles > 5.5 mm de profondeur.



Clermont-Ferrand le 03/07/2019



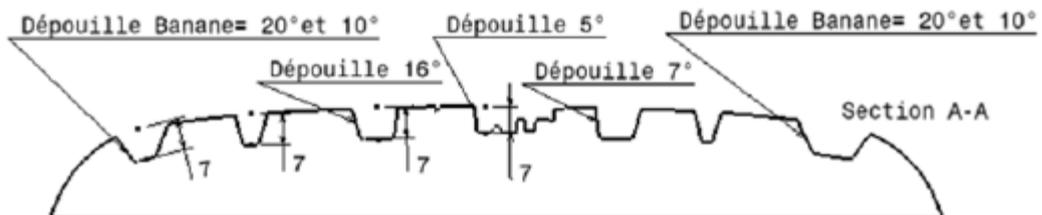
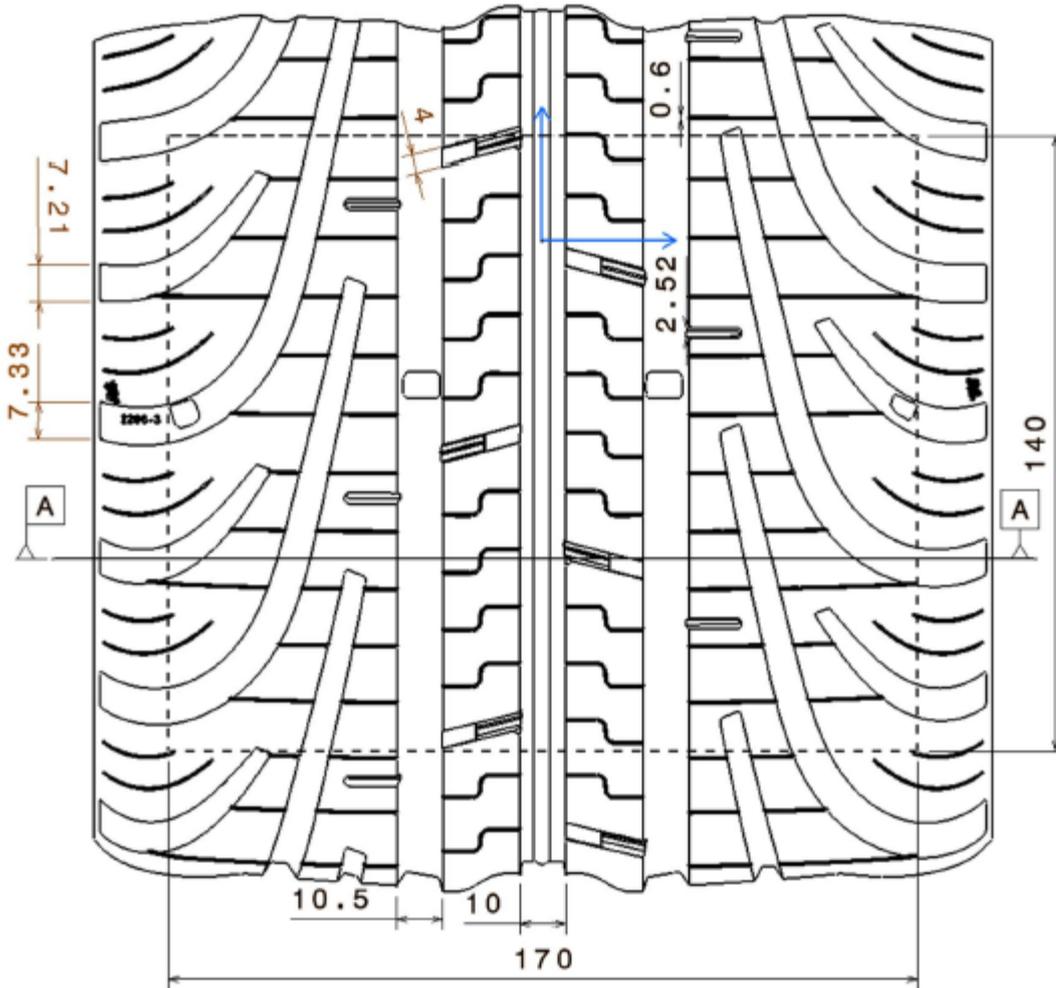
MANUFACTURE FRANCAISE DES PNEUMATIQUES
MICHELIN CLERMONT-FERRAND
PROPRIETE EXCLUSIVE DE NOTRE SOCIETE
REPRODUCTION OU UTILISATION INTERDITE SANS
NOTRE ACCORD ECRIT

18" - 18/65-18

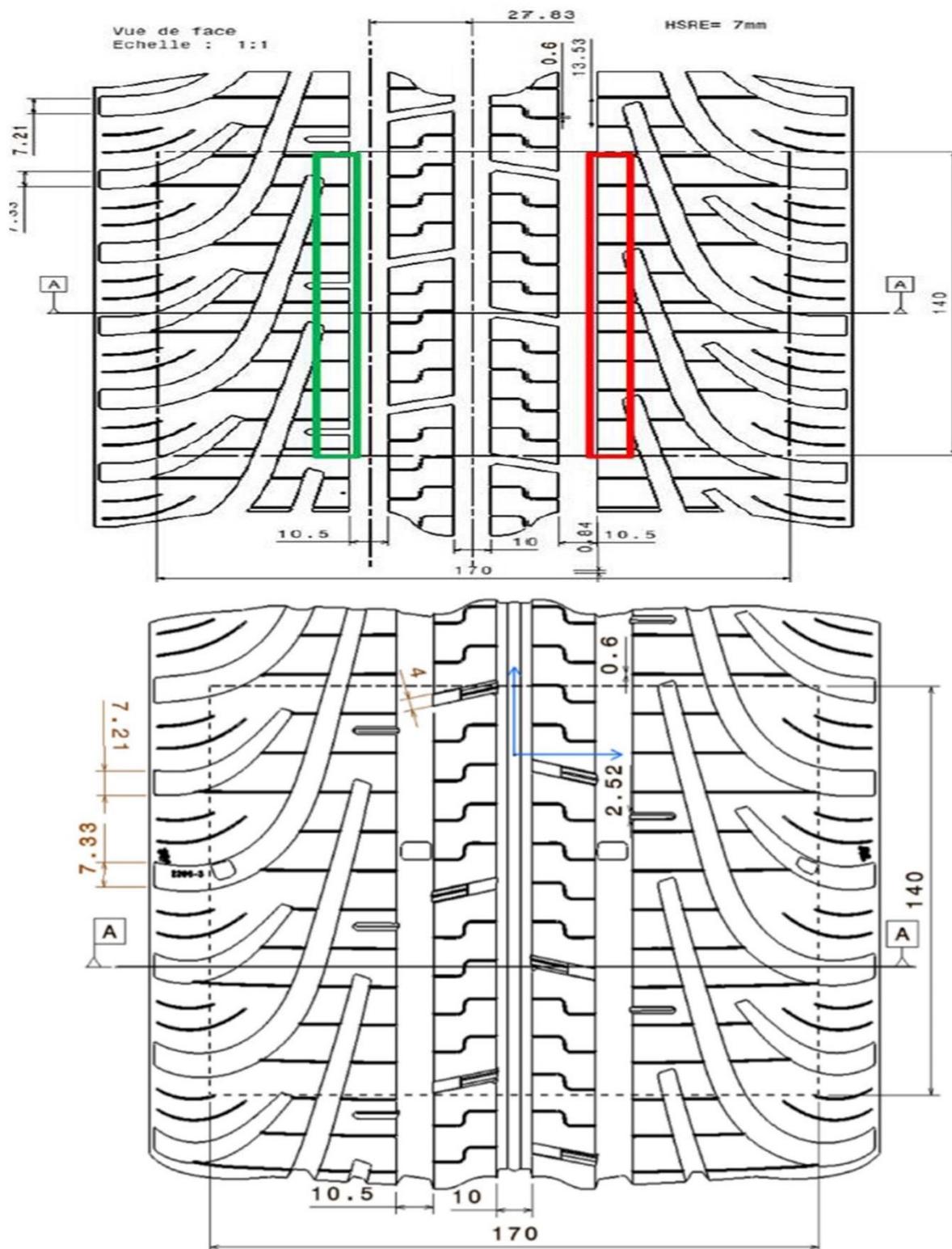


Clermont-Ferrand le : 15/12/2016
Domaine : Rallye Asphalte WRC Wet
Dimension : 18 / 65 - 18
Plan de la sculpture : Pilot Sport FW3
Entaillement Surfacique sur entaille $\geq 5,5\text{mm}$ de profondeur : 27.5%

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



18" - 18/65-18

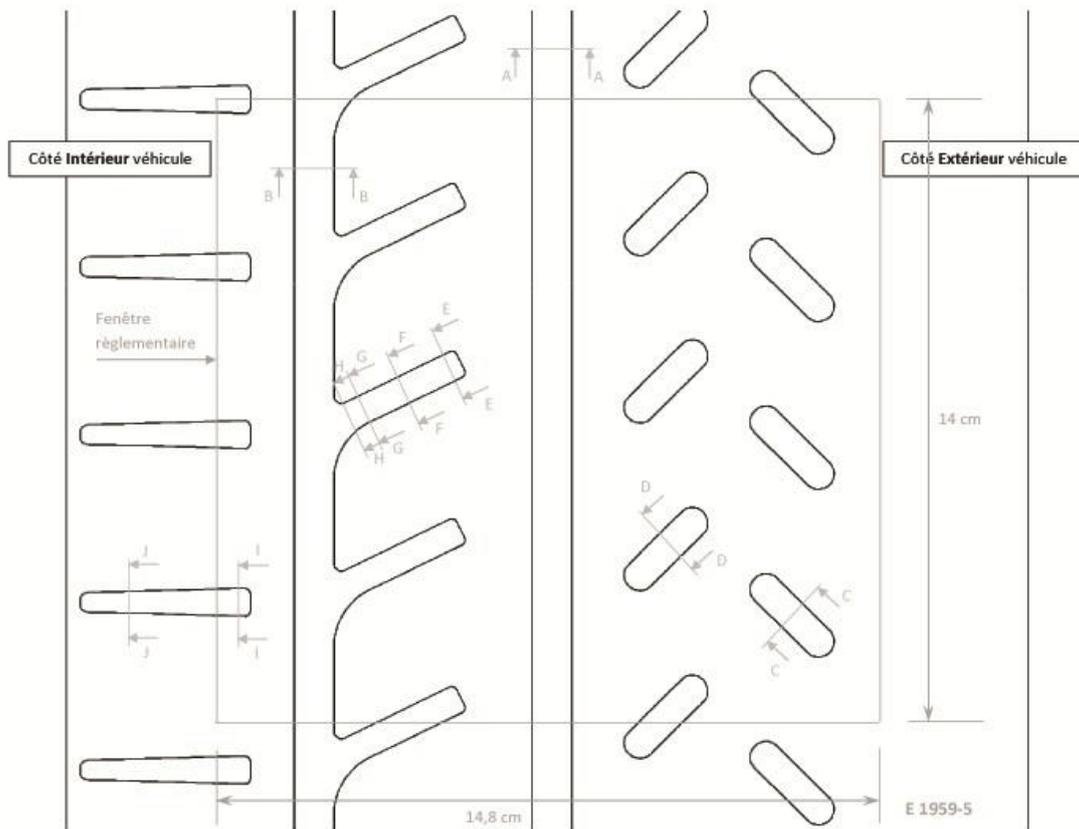


17" - 19/63-17

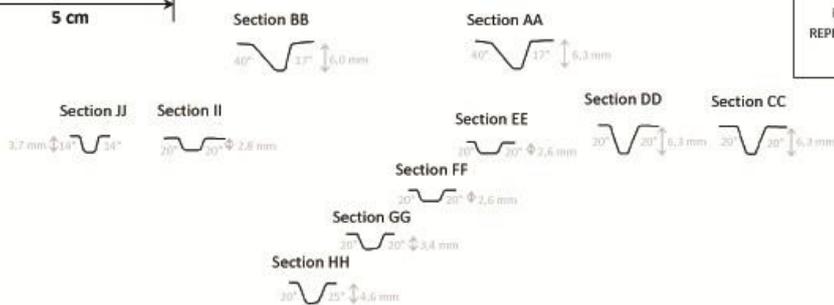


Domaine : Rallye Asphalte
 Dimension : 19 / 63 – 17
 Plan de la sculpture : Pilot Sport R
 Entaillement surfacique sur fenêtre réglementaire : 21,51 %

Clermont-Ferrand le 05/12/2013



Echelle 1:1
 5 cm



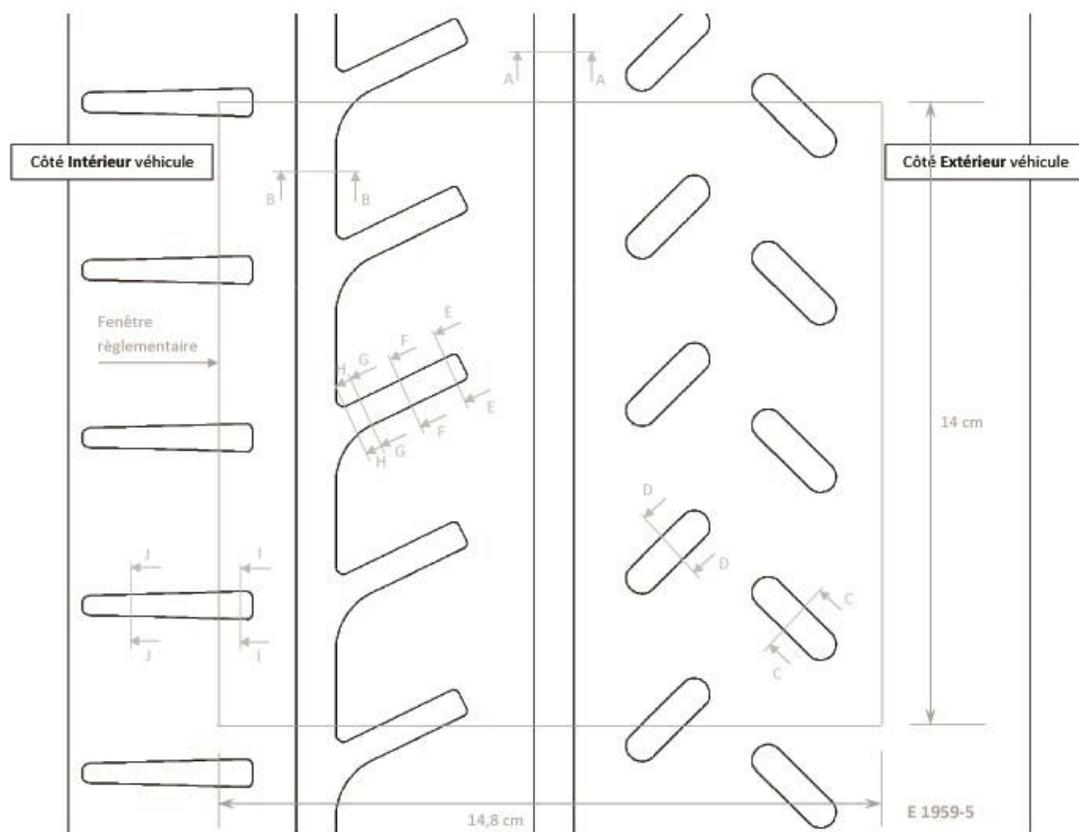
MANUFACTURE FRANCAISE DES PNEUMATIQUES
 MICHELIN CLERMONT-FERRAND
 PROPRIETE EXCLUSIVE DE NOTRE SOCIETE
 REPRODUCTION OU UTILISATION INTERDITE SANS
 NOTRE ACCORD ECRIT

16" – 19/60-16

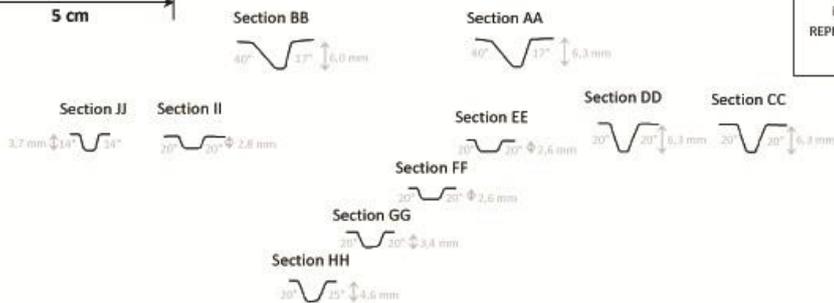


Domaine : Rallye Asphalte
 Dimension : 19 / 60 – 16
 Plan de la sculpture : Pilot Sport R
 Entaillement surfacique sur fenêtre réglementaire : 21,51 %

Clermont-Ferrand le 05/12/2013



Echelle 1:1
 5 cm



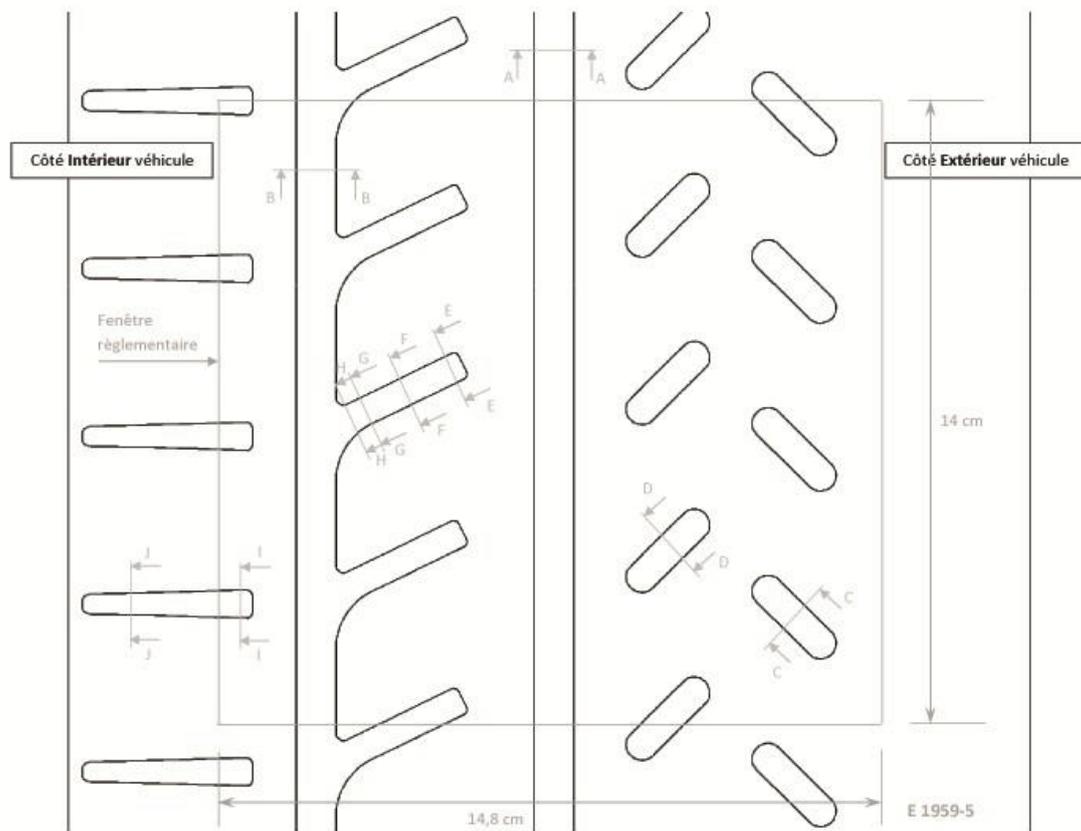
MANUFACTURE FRANCAISE DES PNEUMATIQUES
 MICHELIN CLERMONT-FERRAND
 PROPRIETE EXCLUSIVE DE NOTRE SOCIETE
 REPRODUCTION OU UTILISATION INTERDITE SANS
 NOTRE ACCORD ECRIT

15" – 19/58-15

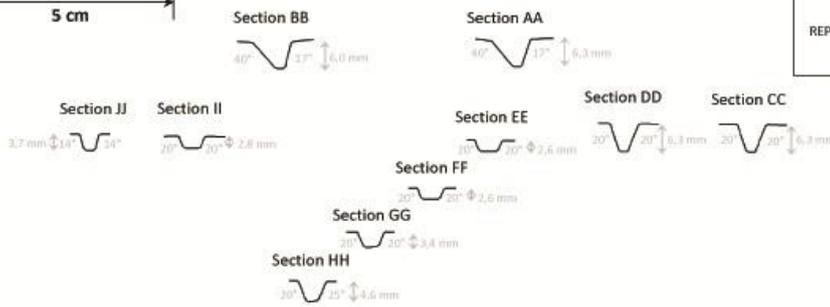


Domaine : Rallye Asphalte
 Dimension : 19 / 58 – 15
 Plan de la sculpture : Pilot Sport R
 Entaillement surfacique sur fenêtre réglementaire : 21,51 %

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.

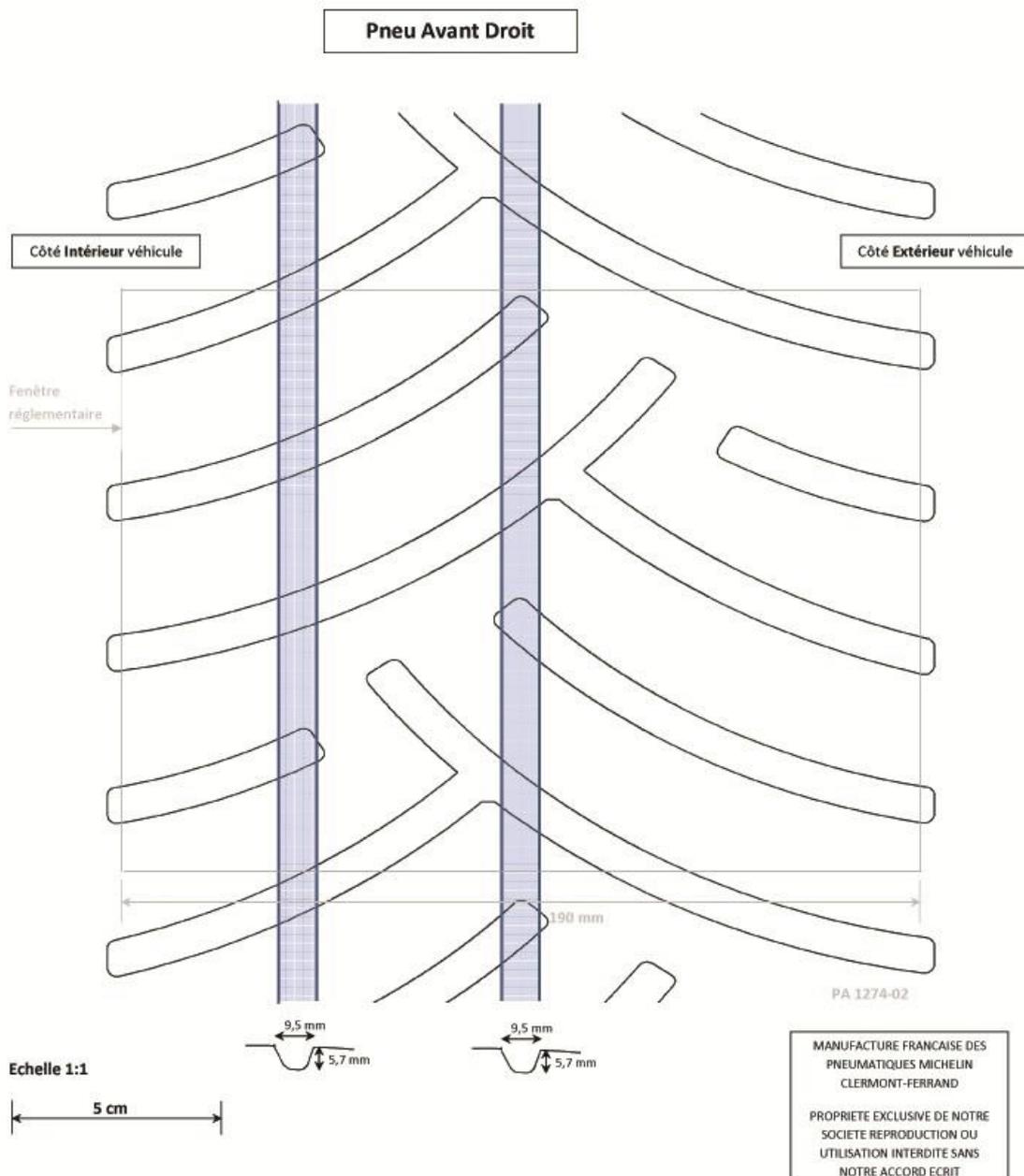


Domaine : Rallye Asphalte

Dimension : 24 / 65 - 18

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

Clermont-Ferrand le 18/12/2013



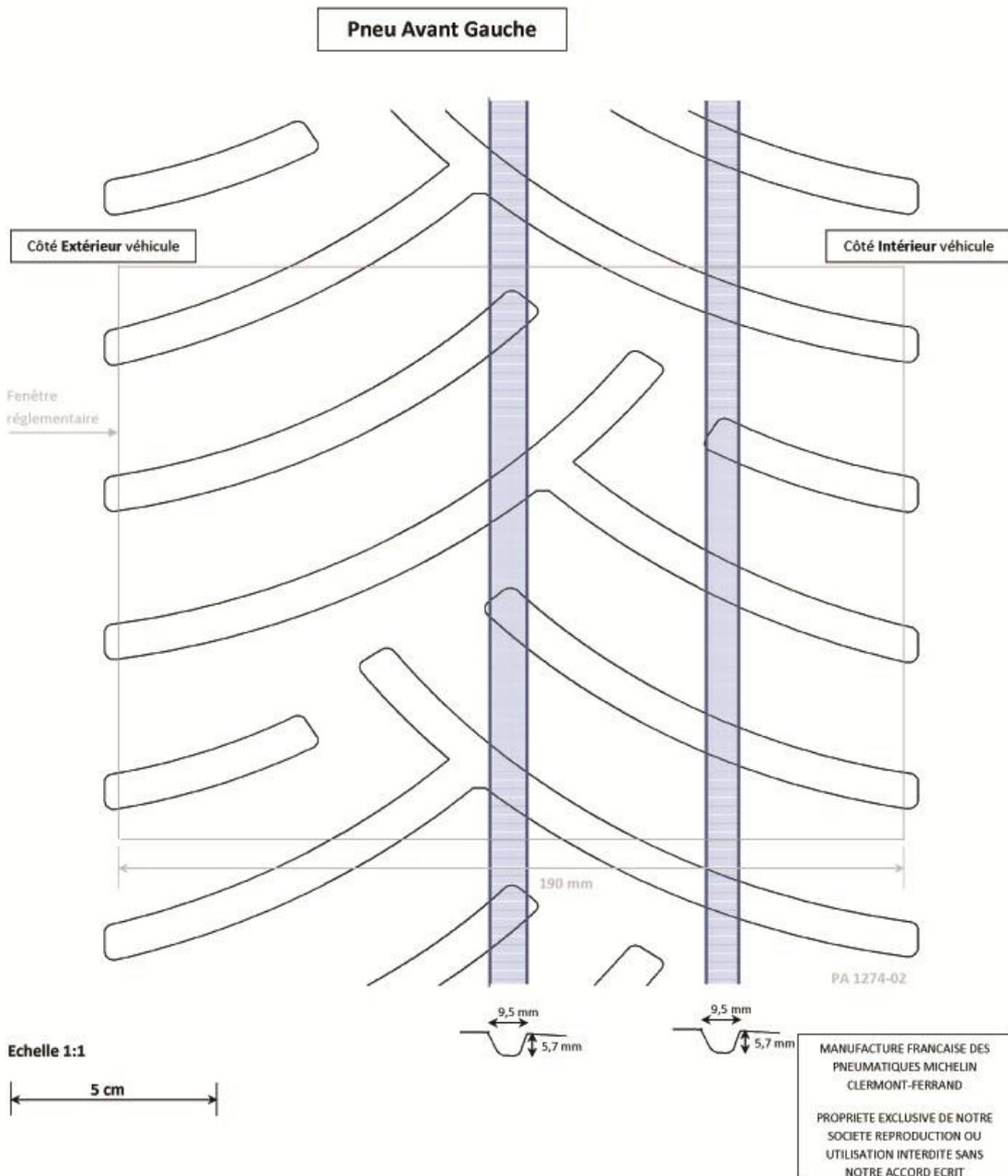
RGT only – 24/65-18

Circonférentielles sont manuellement coupées.



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

Clermont-Ferrand le 18/12/2013

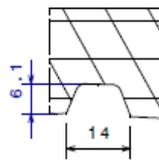
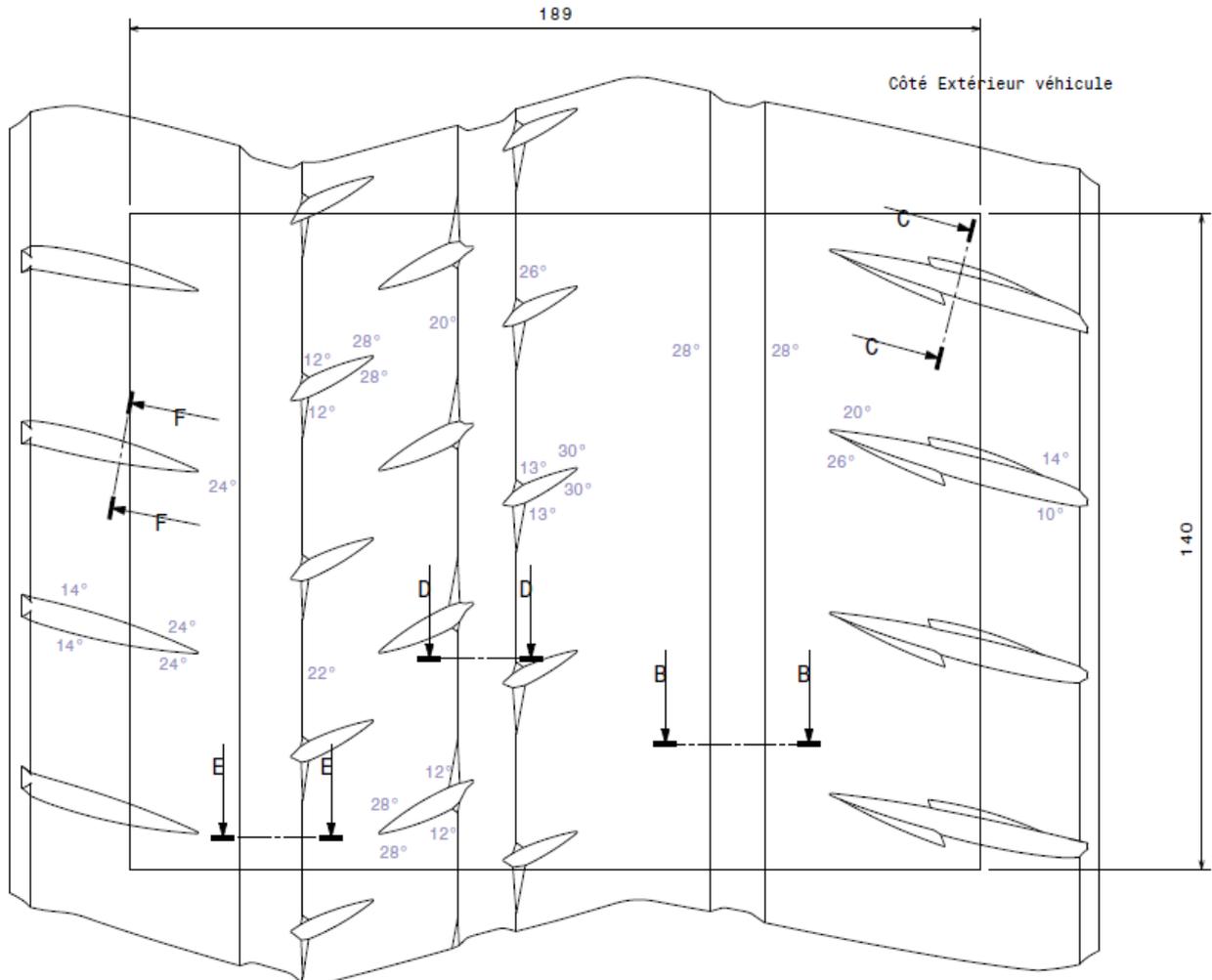


RGT only – 24/65-18

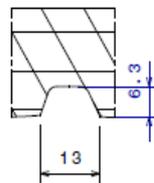


Domaine : Rallye Asphalté
 Dimension : 24/65 R18
 Plan de la sculpture : Pilot Sport R
 Entaillement Surfaccique dans fenêtre règlementaire : 21.7 % à 1.8 mm d'usure
 : 17 % à 5.5 mm d'usure

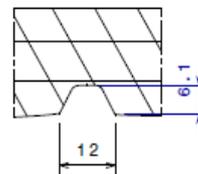
Clermont-Ferrand le 28/02/2018



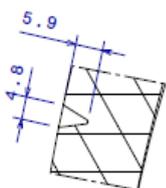
Coupe E-E



Coupe D-D

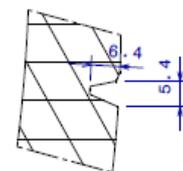


Coupe B-B



Coupe F-F

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



Coupe C-C

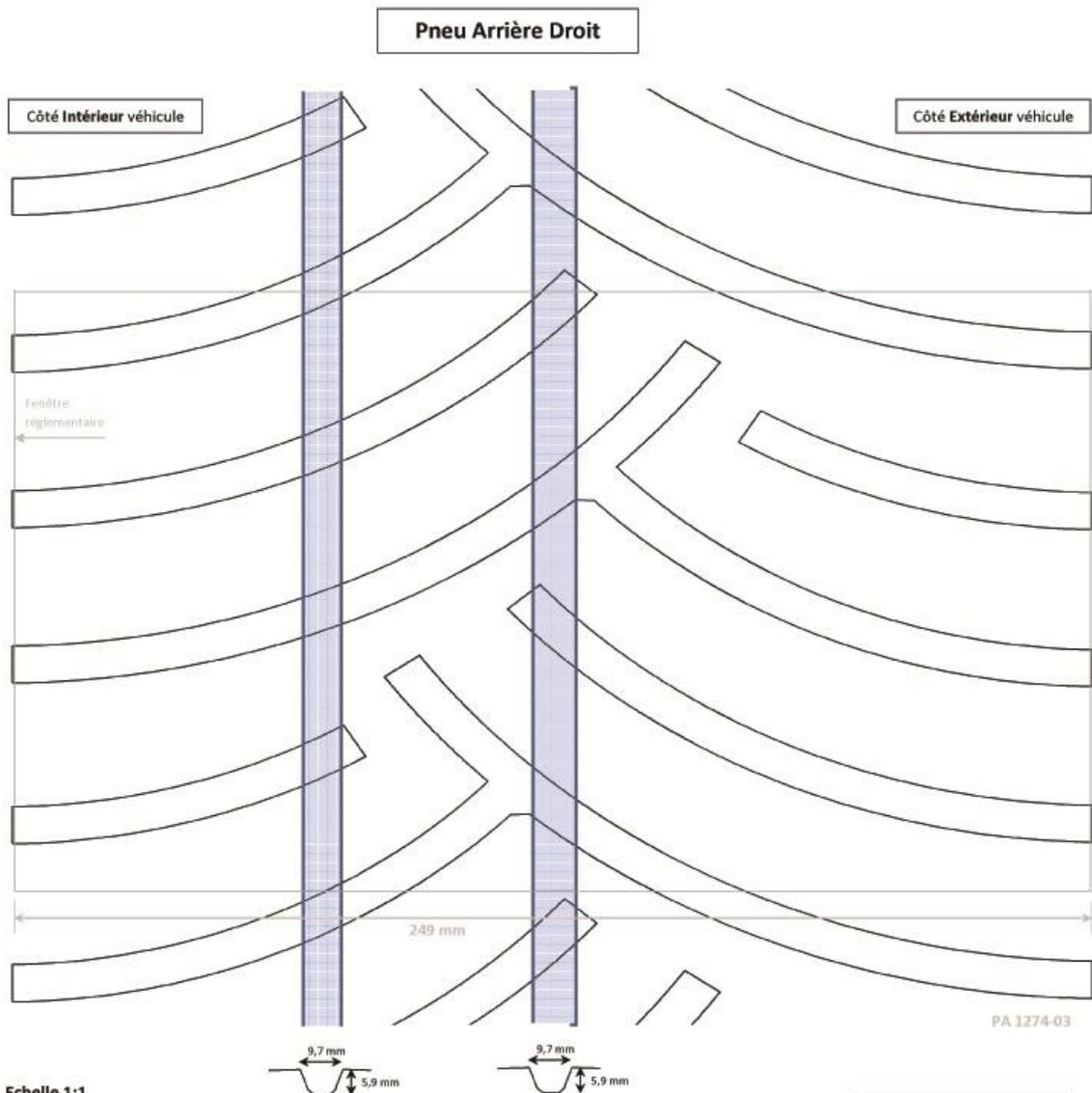


Domaine : Rallye Asphalte

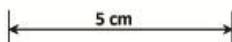
Dimension : 29 / 65 - 18

Entaillement surfacique sur fenêtre de 249 mm de large : 31 %

Clermont-Ferrand le 18/12/2013



Echelle 1:1



MANUFACTURE FRANÇAISE DES
PNEUMATIQUES MICHELIN
CLERMONT-FERRAND

PROPRIÉTÉ EXCLUSIVE DE NOTRE
SOCIÉTÉ REPRODUCTION OU
UTILISATION INTERDITE SANS
NOTRE ACCORD ÉCRIT

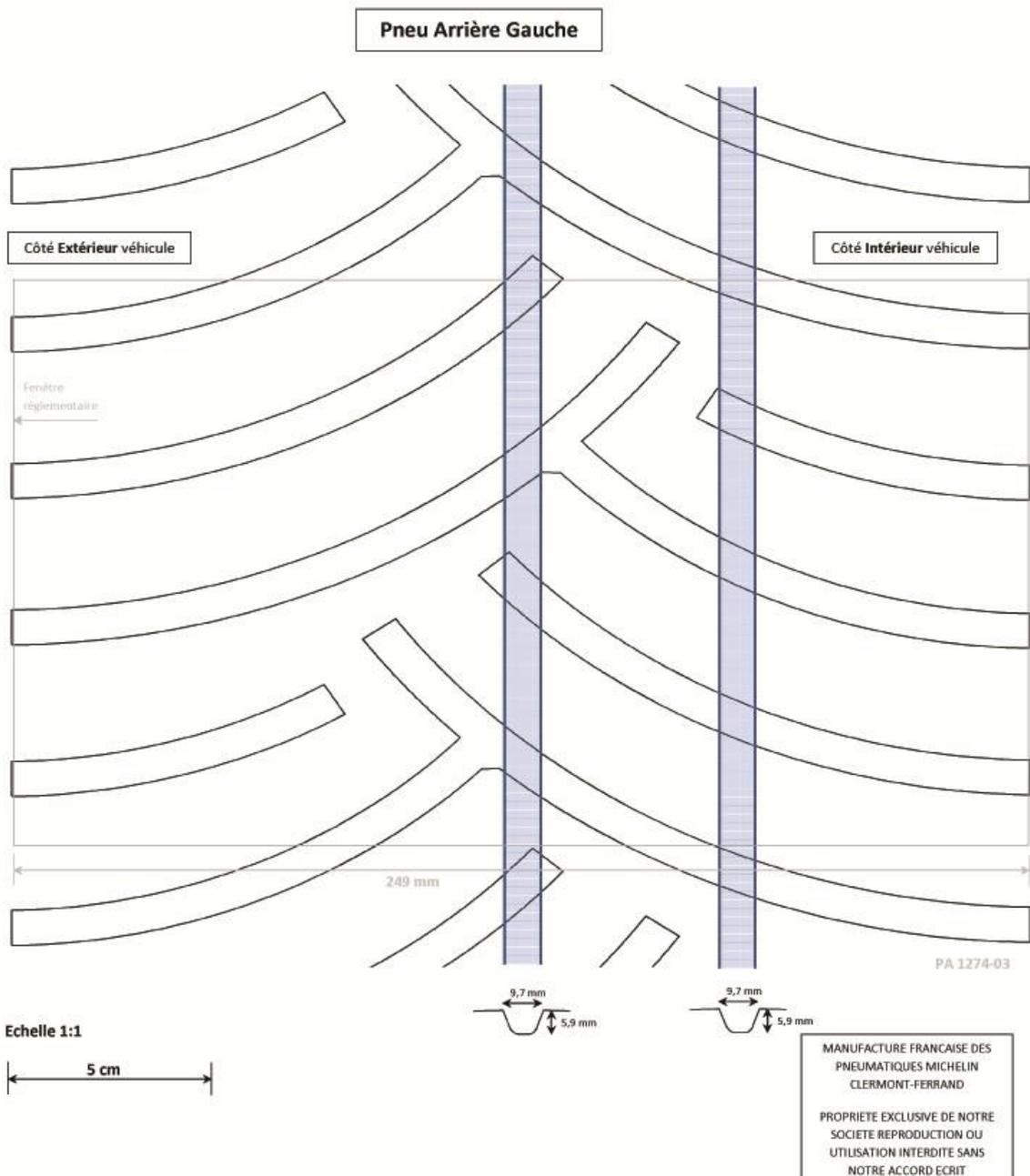
RGT only – 29/65-18

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

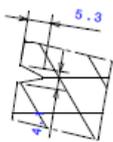
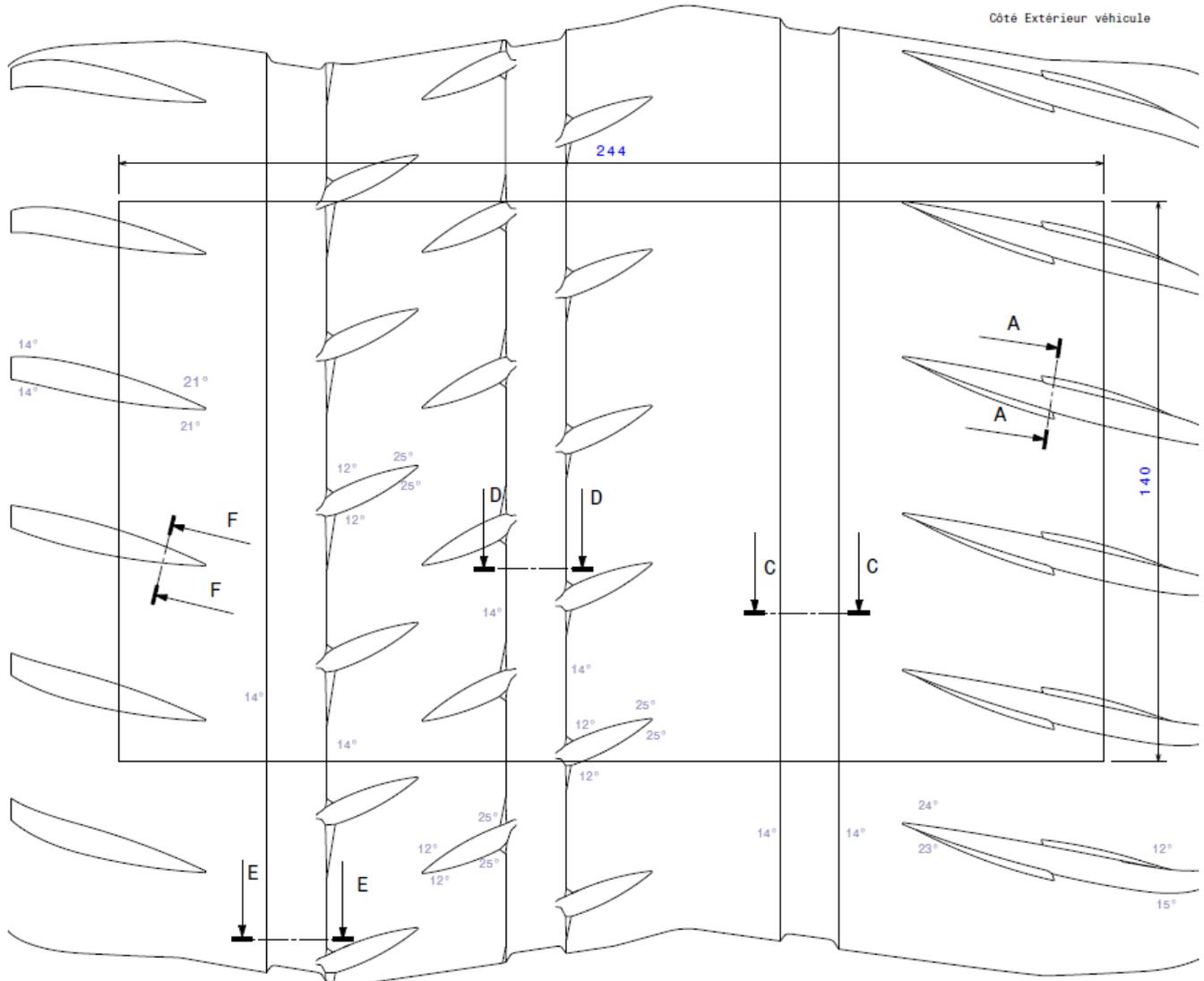


RGT only – 29/65-18

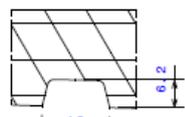


Domaine : Rallye Asphalte
 Dimension : 29/65 R18
 Plan de la sculpture : Pilot Sport R
 Entaillement Superficiel dans fenêtre réglementaire : 22.6 % à 1.8 mm d'usure
 : 19.2 % à 5.5 mm d'usure

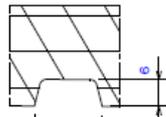
Clermont-Ferrand le 28/02/2018



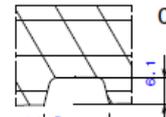
Coupe F-F



Coupe E-E



Coupe D-D



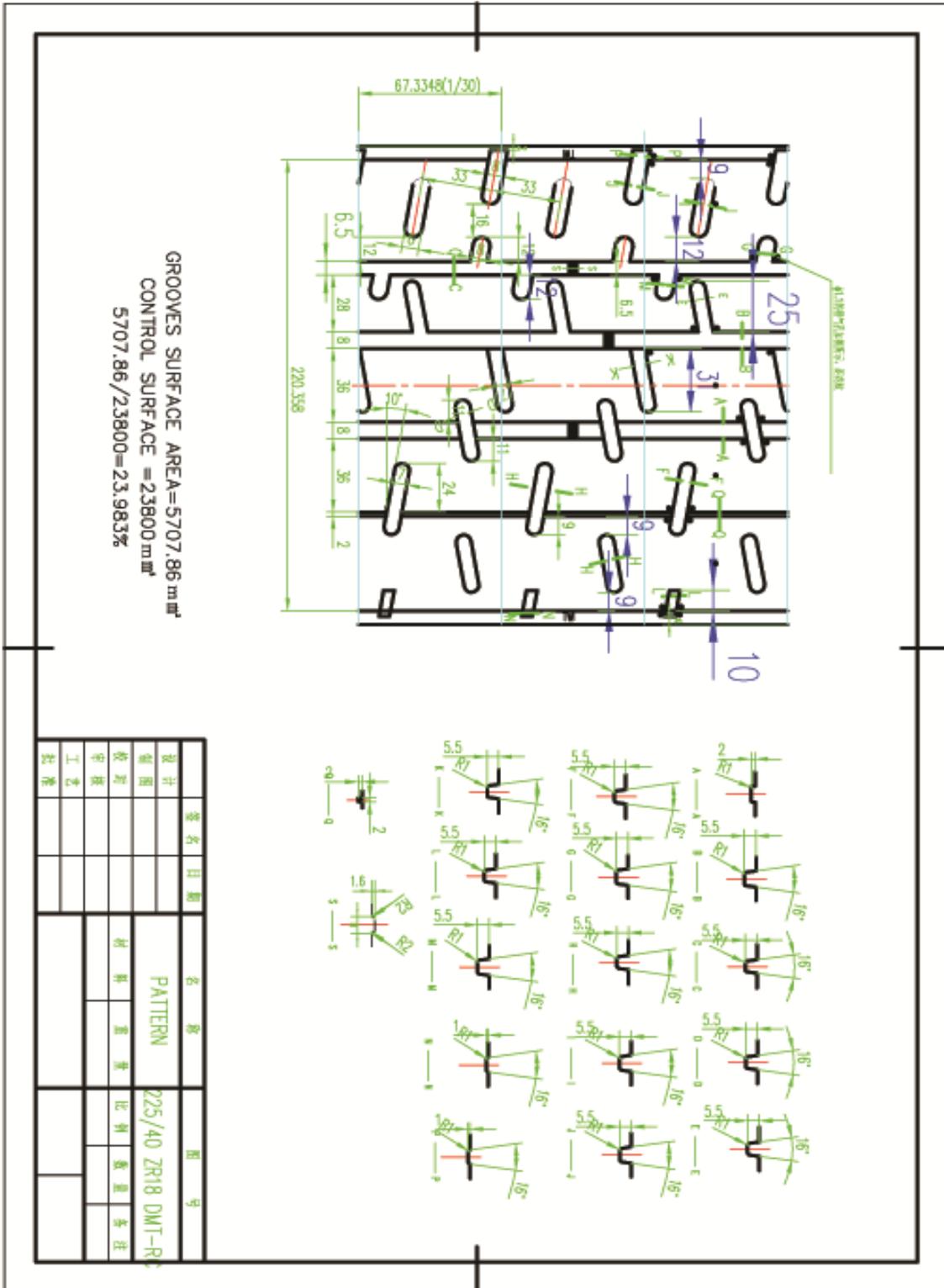
Coupe C-C



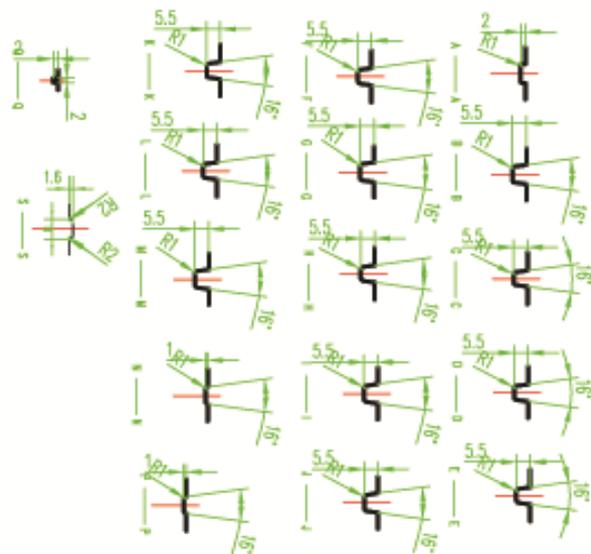
Coupe A-A

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

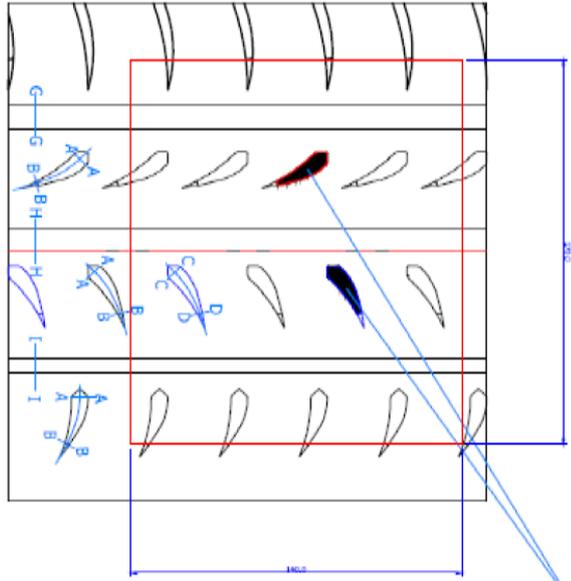
18" – 225/40-18



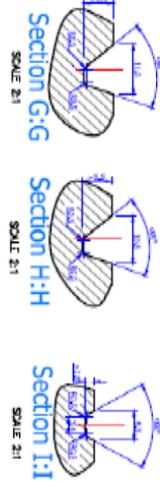
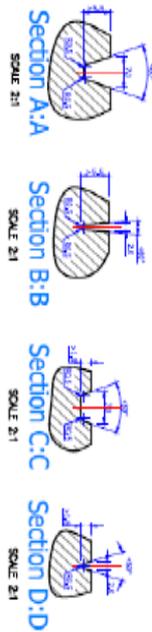
设计	签名	日期	名称	图号
制图			PATTERN	
校核			225/40 ZR18 DM1-R	
审核			材料	重量
工艺			比例	数量
批准				备注



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

DESCRIPTION	DATE
225/40 R18 DMT RC22 - FIA Homologation table	
DMACK TYRES - ENGLAND.	

DMACK Tyres is a registered trademark of DMACK Tyres Ltd. All rights reserved. DMACK Tyres is a registered trademark of DMACK Tyres Ltd. All rights reserved.

ISSUE	MODIFICATION	DATE	SIGN
1			



SCALE: 1:1
 DATE: 2013.05.16
 16FB037

17" – 205/45-17

Single element area 93.7mm²

Section G:G
SCALE 2:1

Section H:H
SCALE 2:1

Section I:I
SCALE 2:1

Section A:A
SCALE 2:1

Section B:B
SCALE 2:1

Section C:C
SCALE 2:1

Section D:D
SCALE 2:1

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%

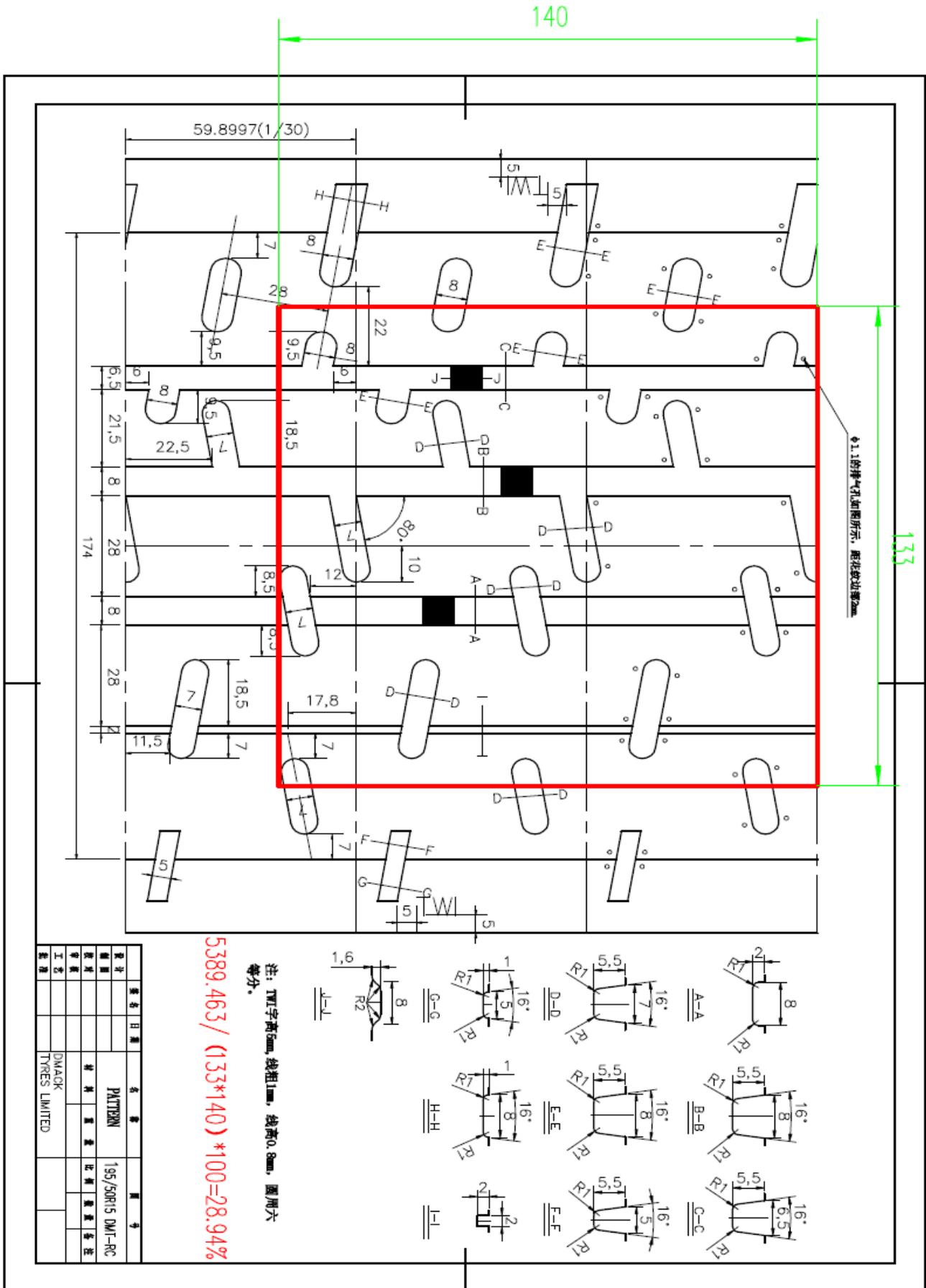
DRAWING REFERENCES		APPROVAL	

DIMENSIONS		DRAWING	
MM	INCH	DESCRIPTION	SCALE
205/45 R17 DMT RC2	8.11	205/45 R17 DMT RC2 - FIA Homologation details	SCALE 2:1
DMACK TYRES - ENGLAND			

ISSUE	MODIFICATION	DATE	SIGN
1			

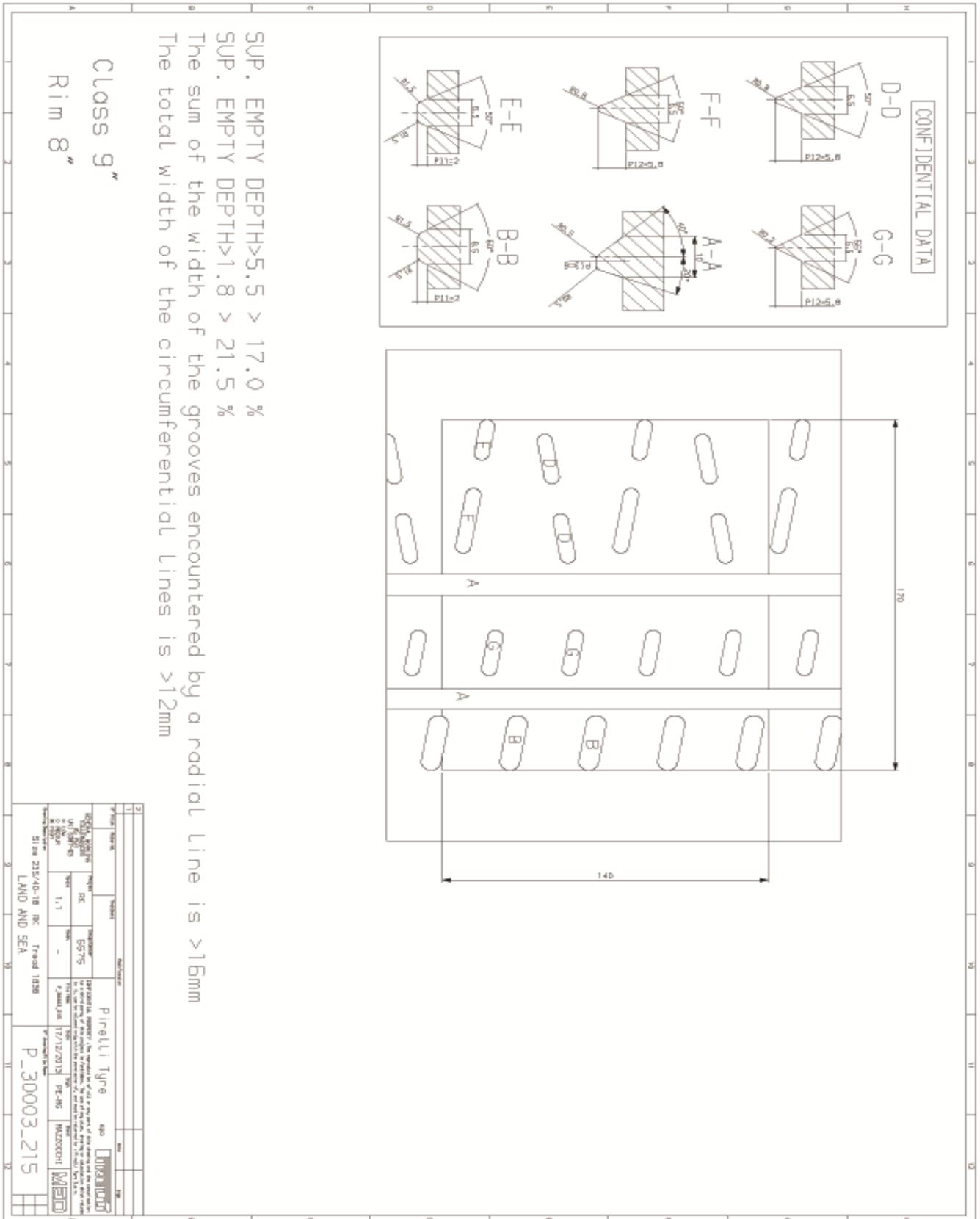
SCALE	DATE	SIGN
SCALE 2:1	16 FEB 2011	
DMACK ENGINEERS		
16FB031		

15" - 195/50-15



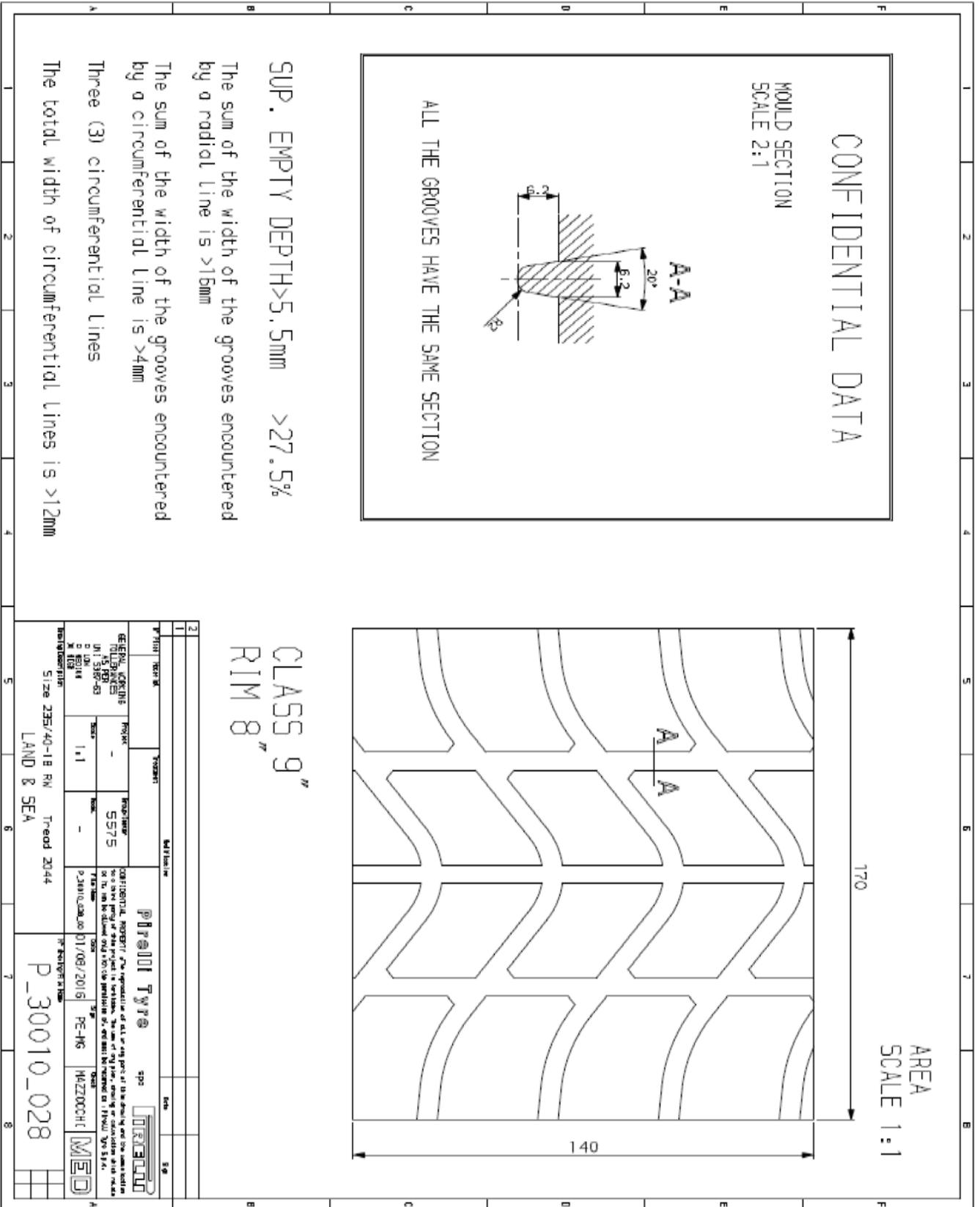


18" – 235/40-18



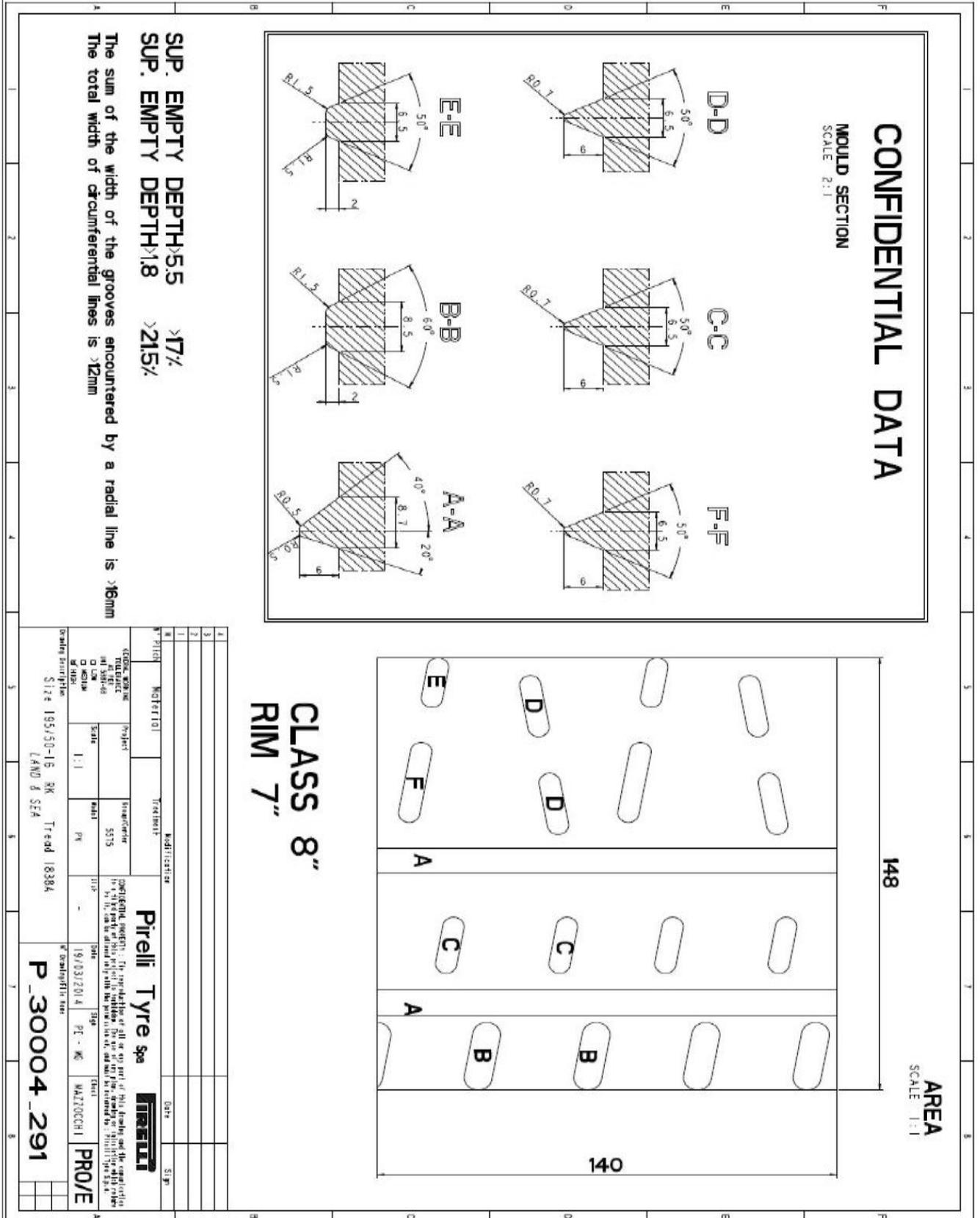


18" – 235/40-18





16" – 195/50-16

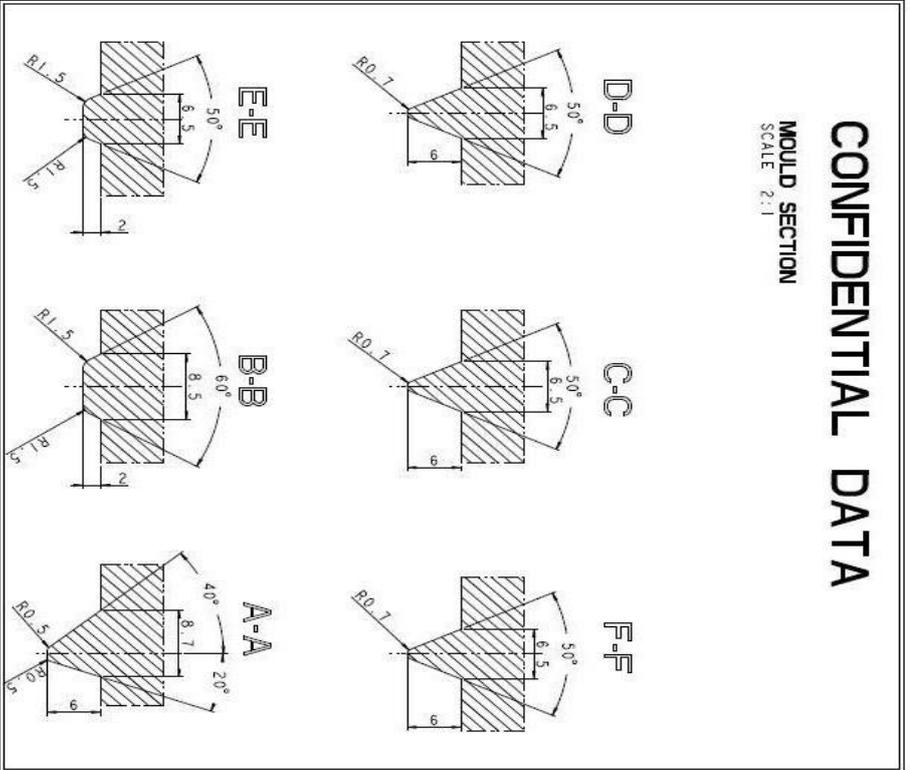




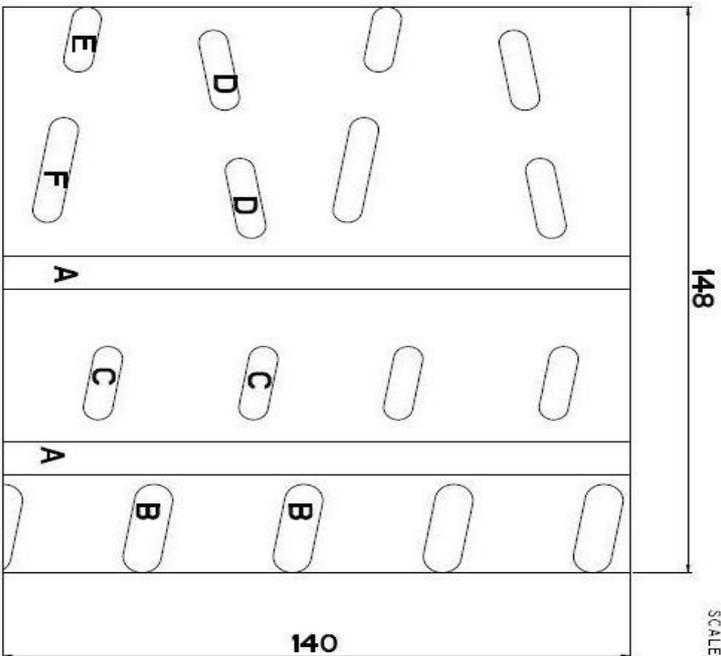
15" – 195/50-15

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



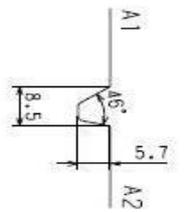
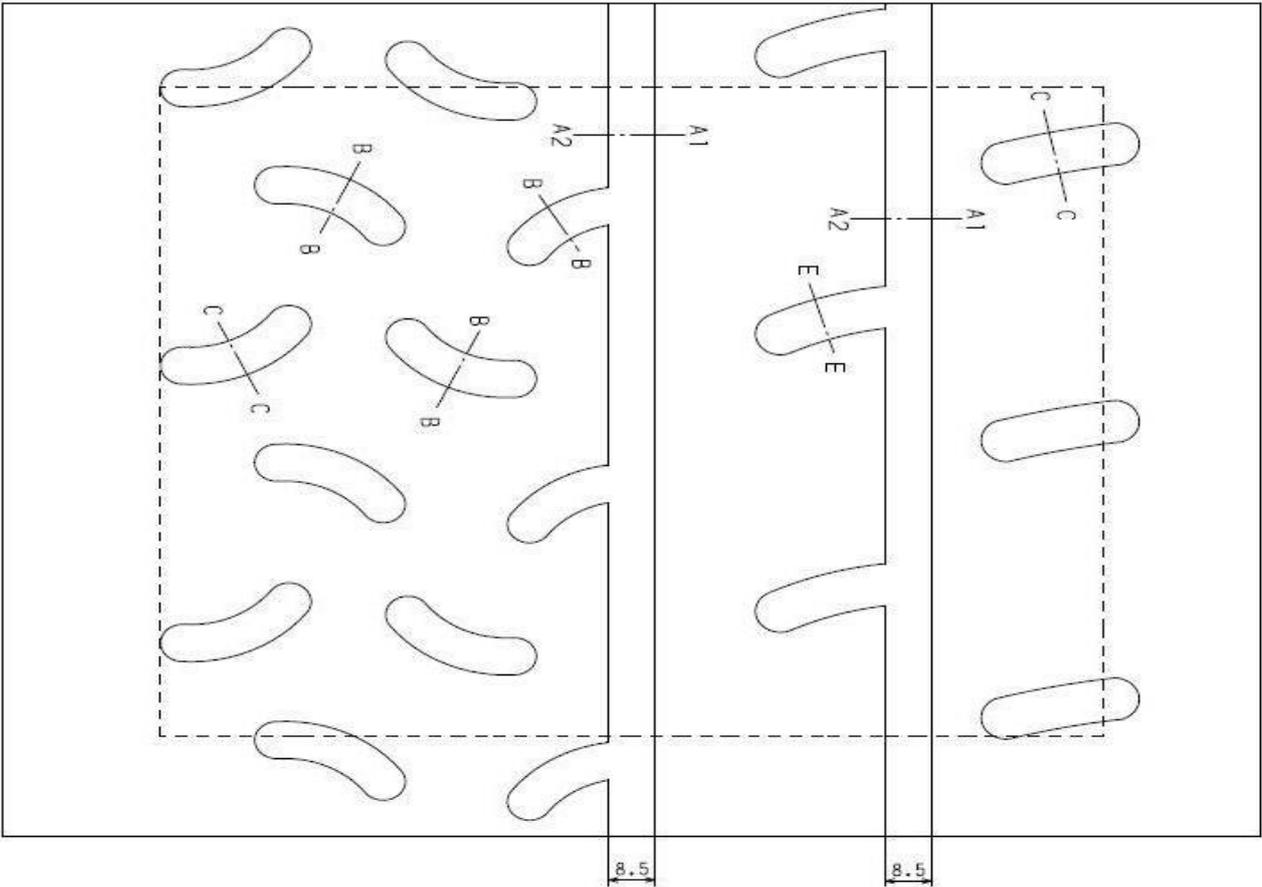
AREA
SCALE 1:1

**CLASS 8"
RIM 7"**

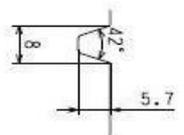
N°	ITEM	MATERIAL	TREATMENT	MODIFICATION	DATE	SIGN
1						
2						
3						

DESCRIPTION	Project	Treatment	Project center	CONFIDENTIAL PROPERTY - The reproduction of all or any part of this drawing and the compilation of a copy of it, in whole or in part, without the prior written consent of the author is strictly prohibited.
REFERENCE	NO. 195/50-15	Scale	5575	DATE
DRAWN	Scale	Model	PE	DATE
CHECKED	1:1	PE	19/03/2014	DATE
DATE	19/03/2014	PE - MC	MAZZOCCHI	PRO/E
DESCRIPTION	Size 195/50-15 RK Tread 1838A	LAND & SEA	P_300004_290	

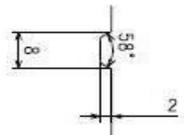
18" – 235/40-18



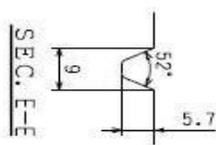
SEC. A1-A2



SEC. B-B



SEC. C-C



SEC. E-E

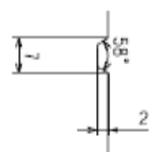
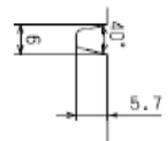
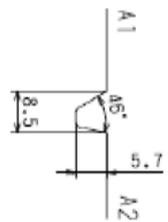
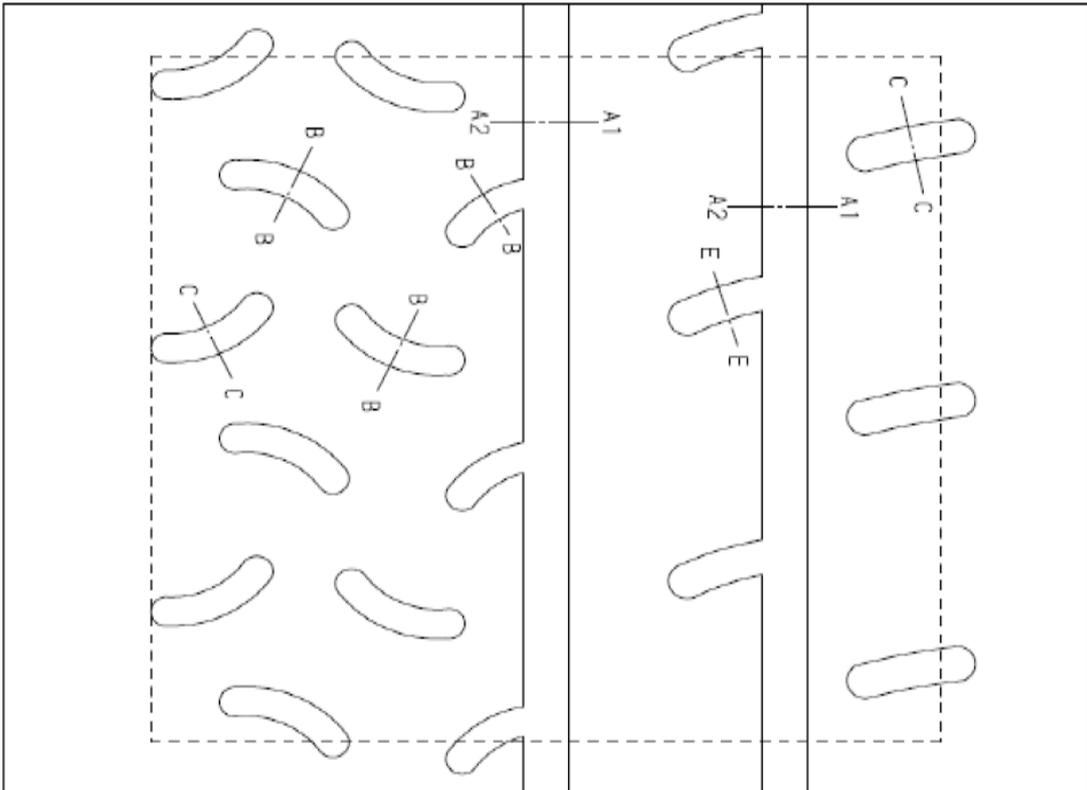
In the control area
 5.5mm grooves-18.1%
 Total grooves-22.2%

----- Control area 170X140
 Tyre weight 9.7kg

PRODUCT NAME
YOKOHAMA ADVAN AD51T

PATTERN NAME
AD51A

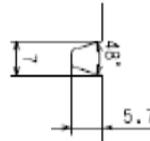
SIZE 210/650R18



SEC. A1-A2

SEC. B-B

SEC. C-C



SEC. E-E

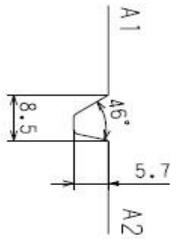
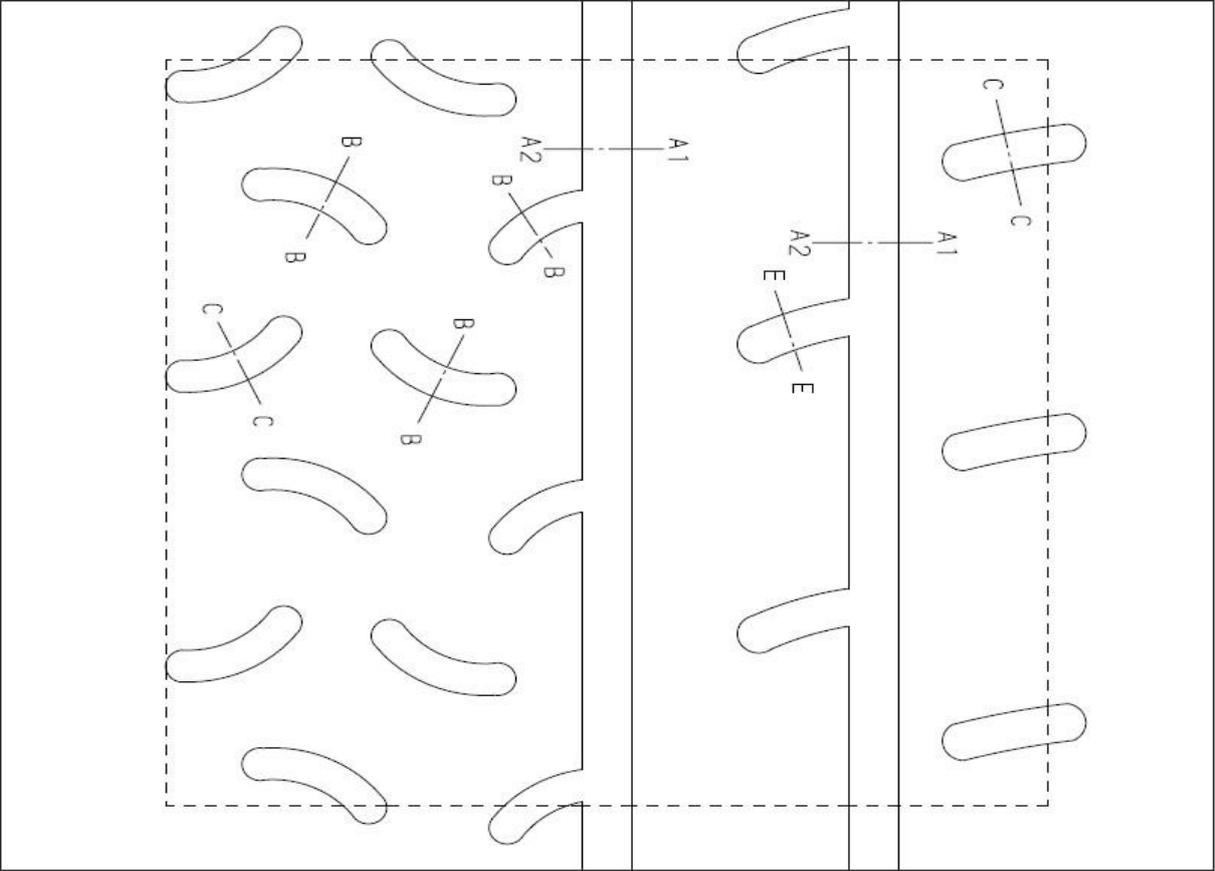
In the control area
 5.5mm grooves-17.9%
 Total grooves-21.6%

----- Control area 170X140

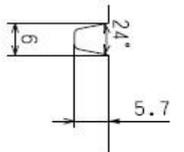
PRODUCT NAME
YOKOHAMA ADVAN AD517

PATTERN NAME
AD51A

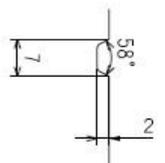
SIZE 210/625R17



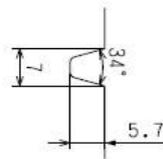
SEC. A1-A2



SEC. B-B



SEC. C-C



SEC. E-E

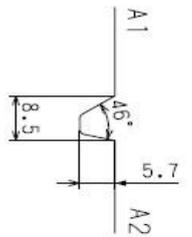
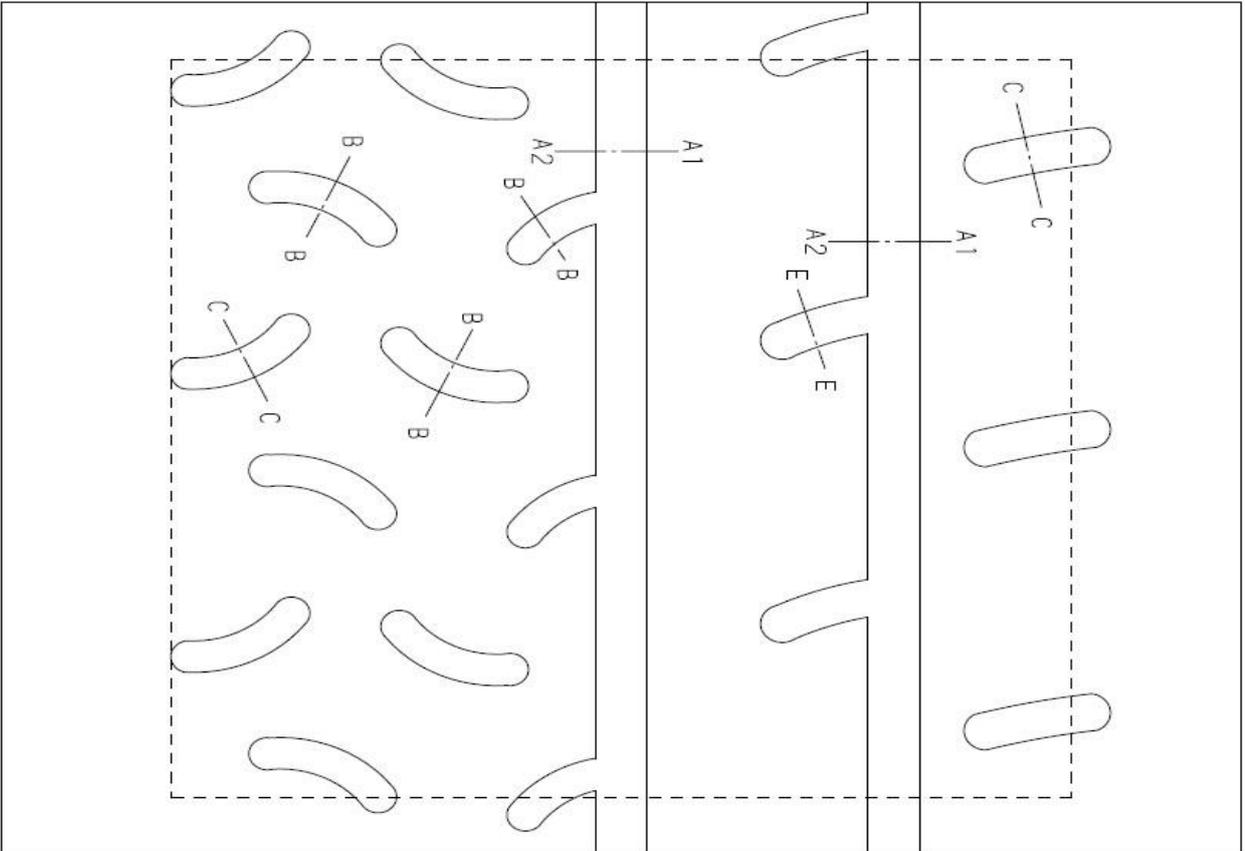
In the control area
 5.5mm grooves - 18.2%
 Total grooves - 22.0%

----- Control area 148X140

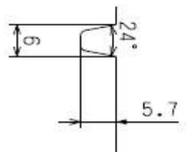
PRODUCT NAME
YOKOHAMA ADVAN A051T

PATTERN NAME
A051A

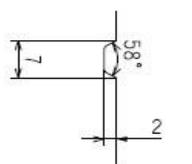
SIZE 190/625R17



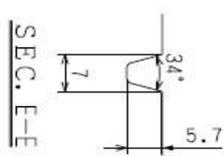
SEC. A1-A2



SEC. B-B



SEC. C-C



SEC. E-E

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

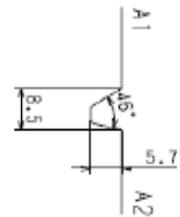
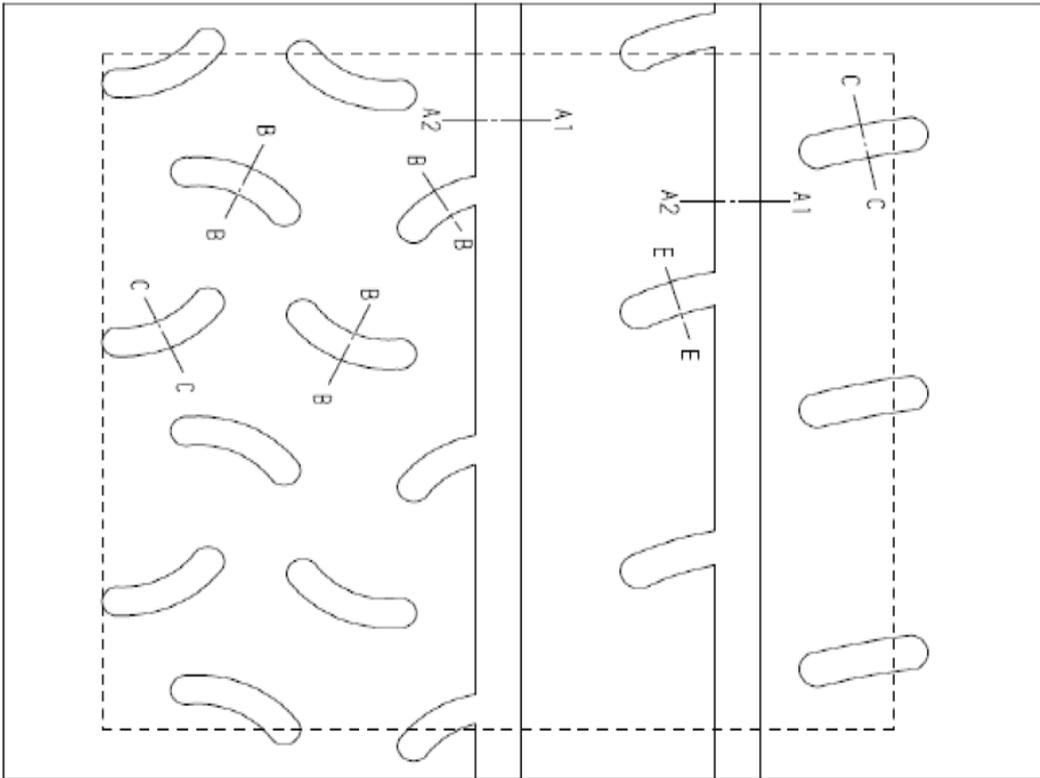
----- Control area 148X140

PRODUCT NAME
YOKOHAMA ADVAN AD51T

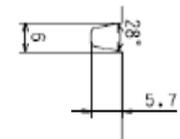
PATTERN NAME
AD51A

SIZE 190/600R16

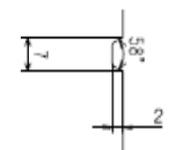
15" – 190/580-15



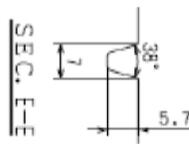
SEC. A1-A2



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

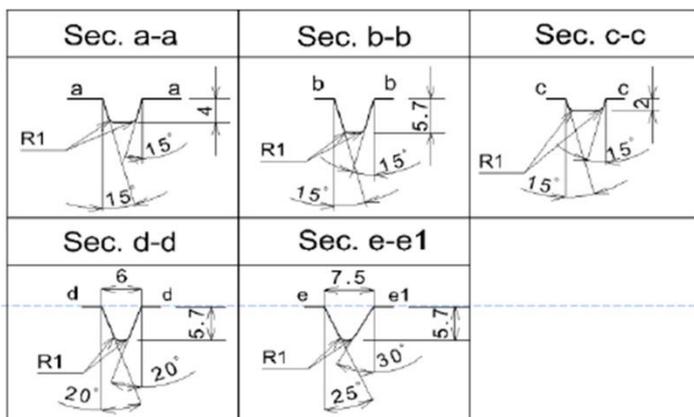
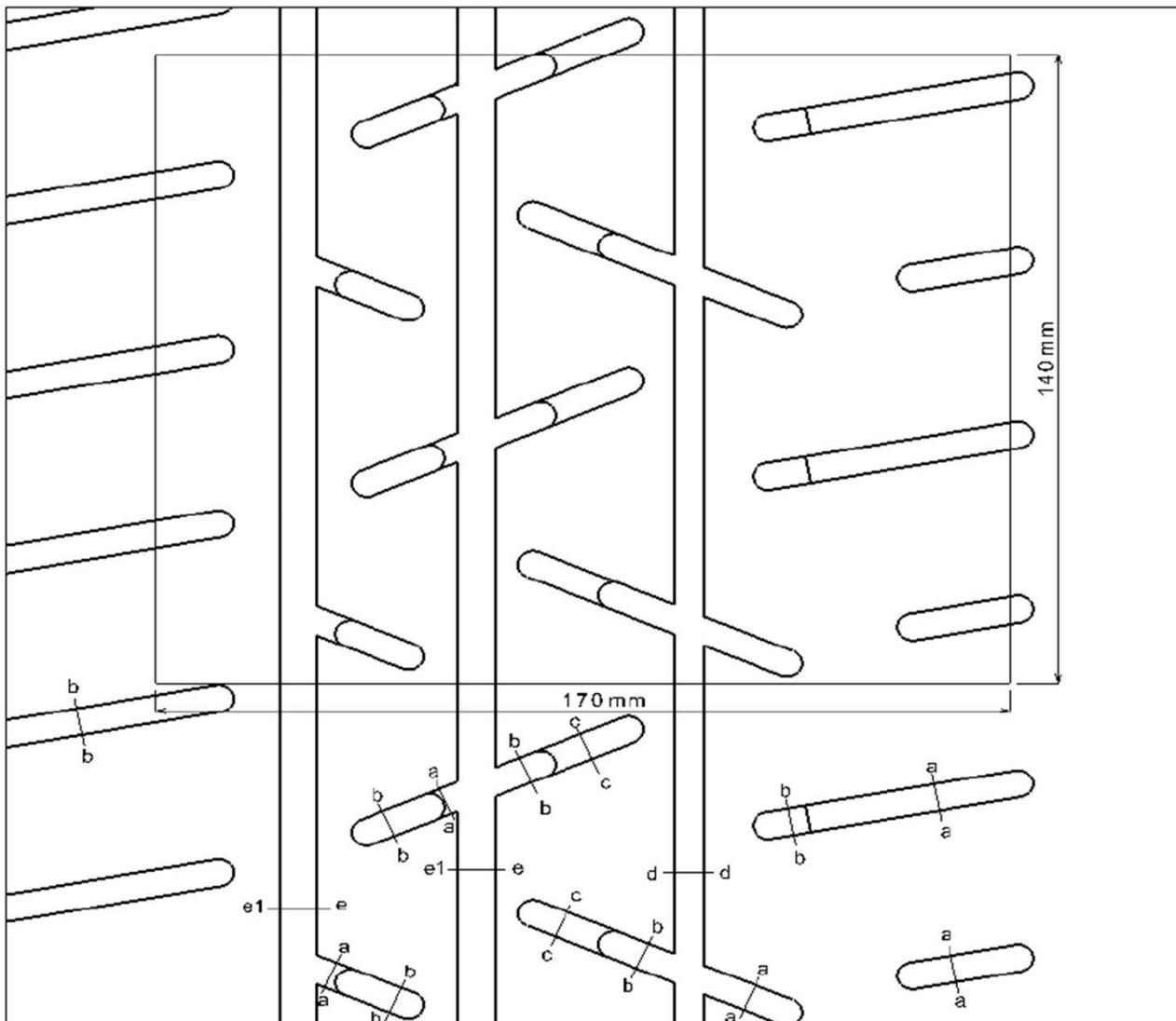
PRODUCT NAME
YOKOHAMA ADVAN AD517

PATTERN NAME
AD51A

SIZE 190/580R15

18" - 210/650R18

Product:Ventus Z205



Class 9" (Rim 8")

Empty Depth > 5.5mm : 17.07%

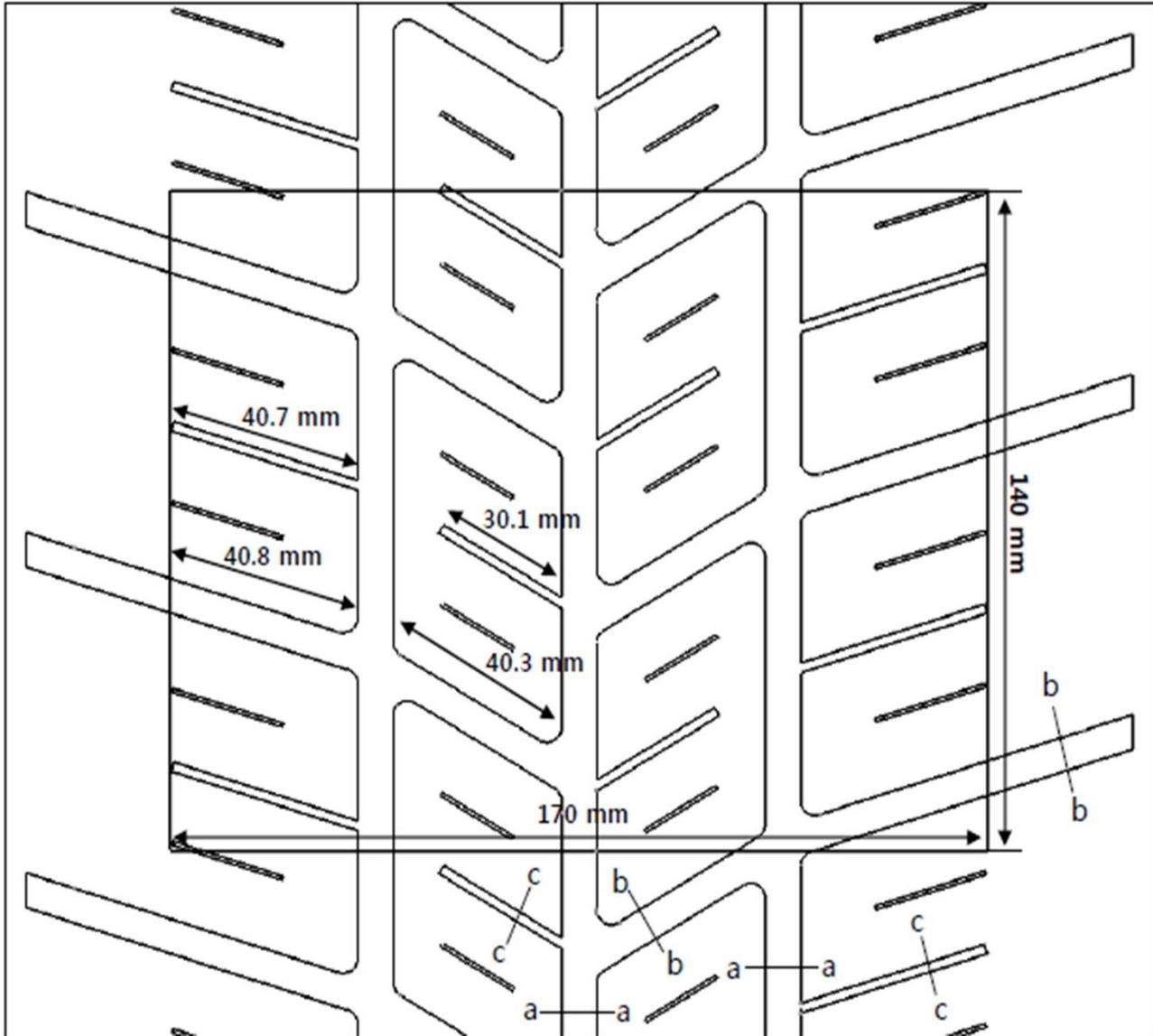
Empty Depth > 1.8mm : 23.30%

GROOVE SURFACE AREA = 554540 mm²

Control Surface = 23800 mm²

18" - 210/650R18

Product:Ventus Z210



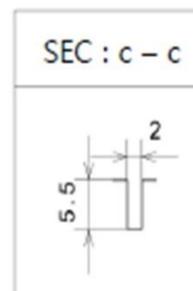
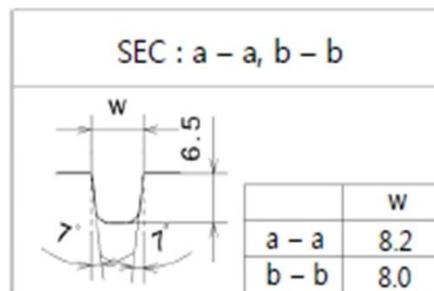
Class 9" (Rim 8")

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

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

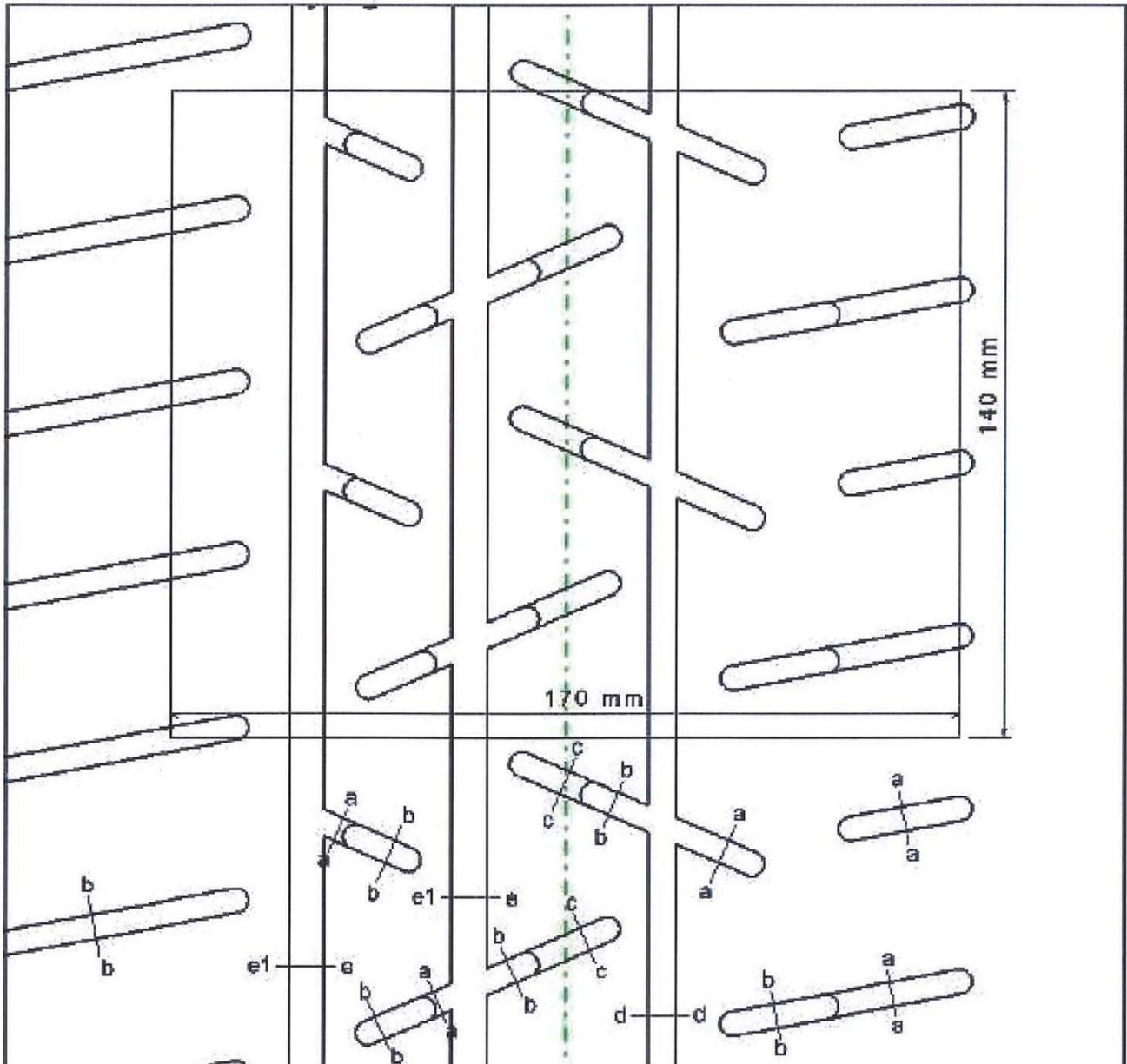
Empty Depth > 5.5mm : 27.5%

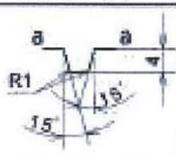
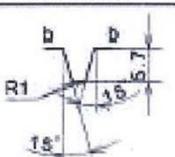
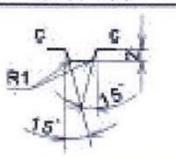
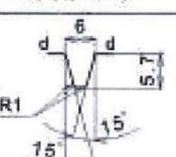
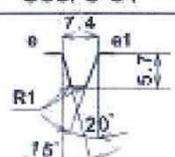
Control Surface = 23800 mm²



17" - 210/625 R17

Product :Ventus Z205



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

Class 9" (Rim 7.5")

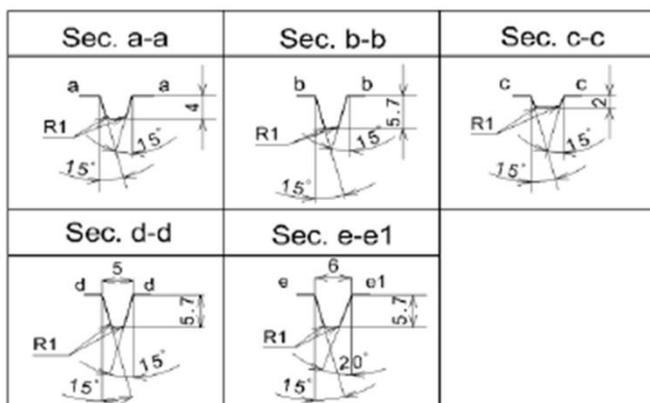
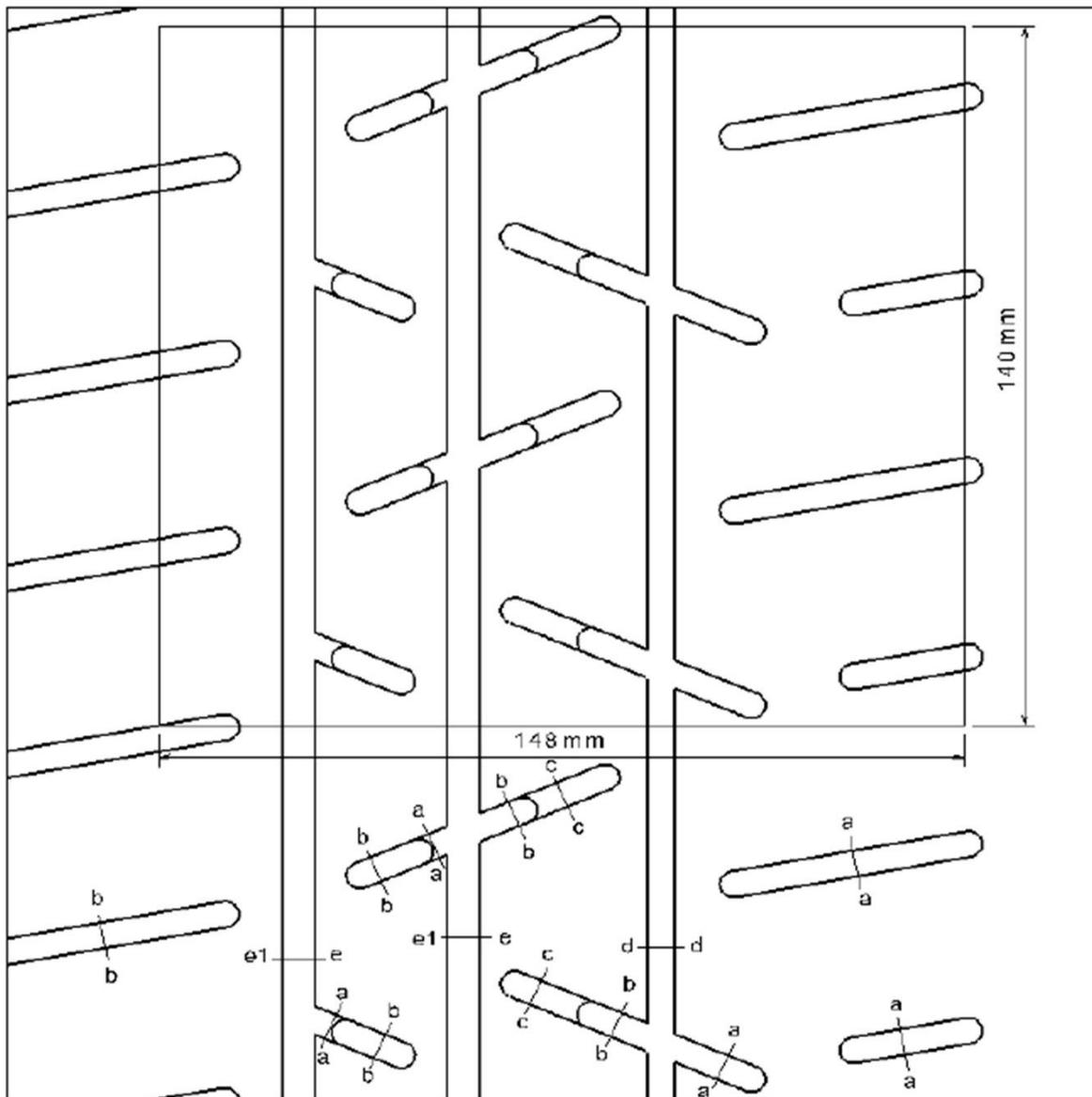
Empty Depth > 5.5mm : 17.05%

Empty Depth > 1.8mm : 25.08%

Control Surface = 23800 mm²

17" - 180/625 R17

Product :Ventus Z205



Class 8" (Rim 7")

Empty Depth > 5.5mm : 17.06%

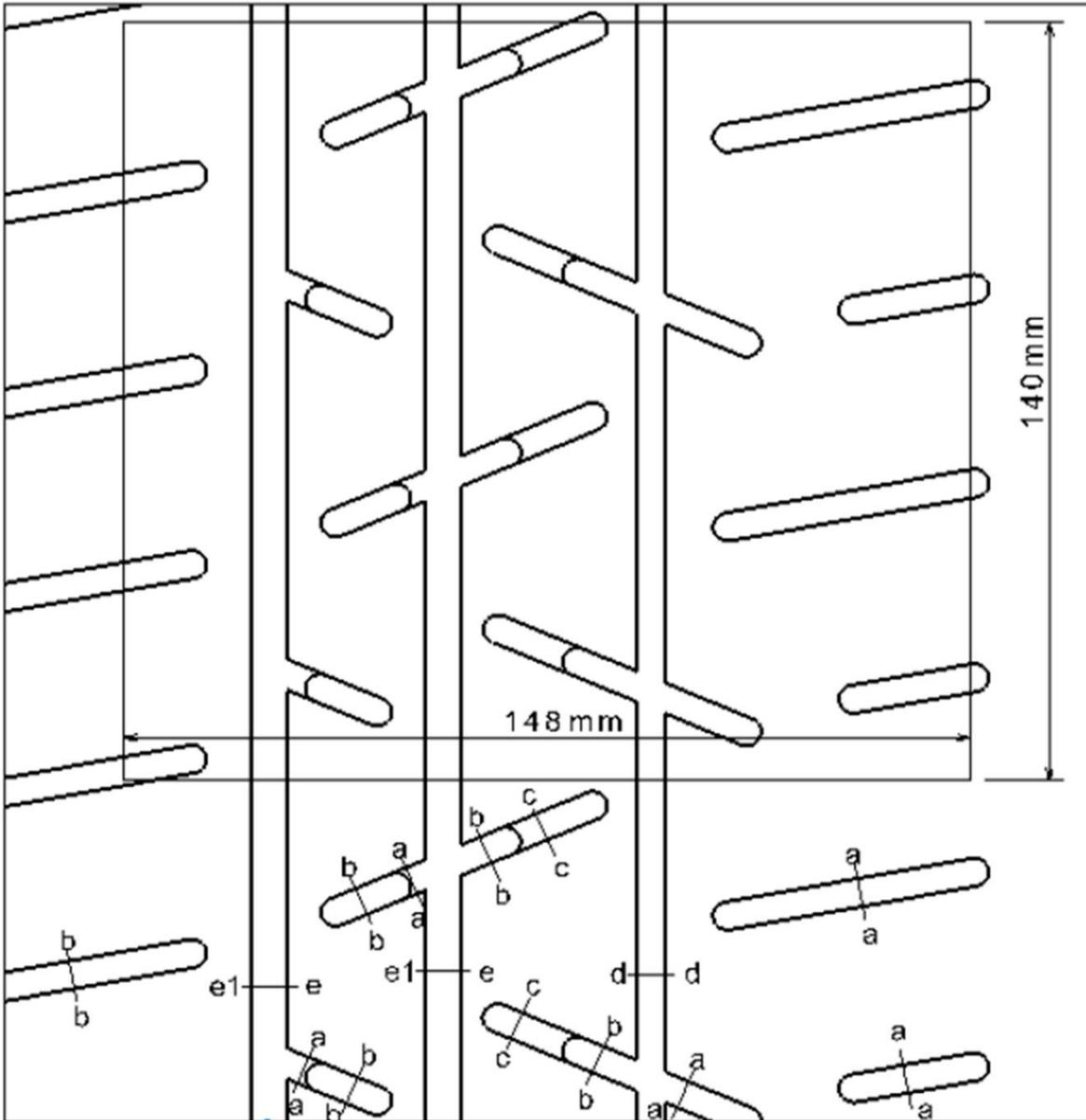
Empty Depth > 1.8mm : 22.48%

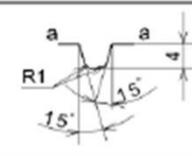
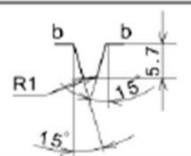
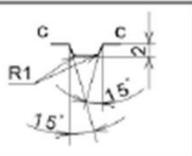
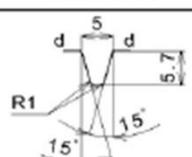
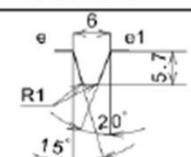
8

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")

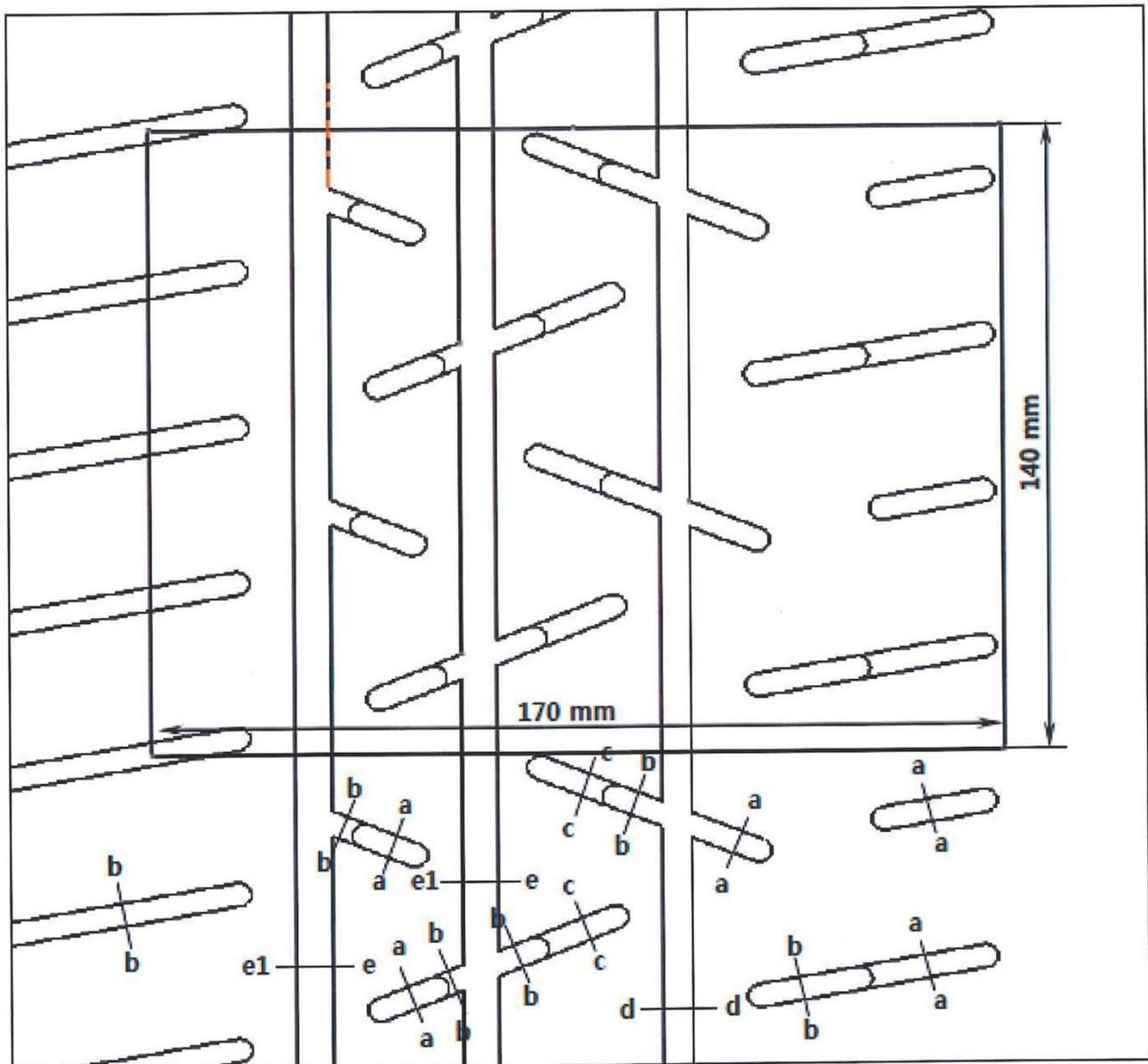
Empty Depth > 5.5mm : 17.30%

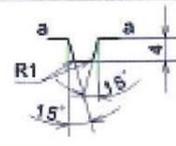
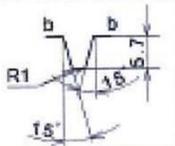
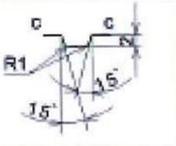
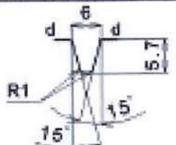
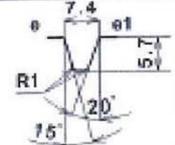
Empty Depth > 1.8mm : 22.95%

GROOVE SURFACE AREA = 358456 mm²

Control Surface = 20720 mm²

15" - 200/580R15



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



18" - 210/645R18

KUMHO TYRES

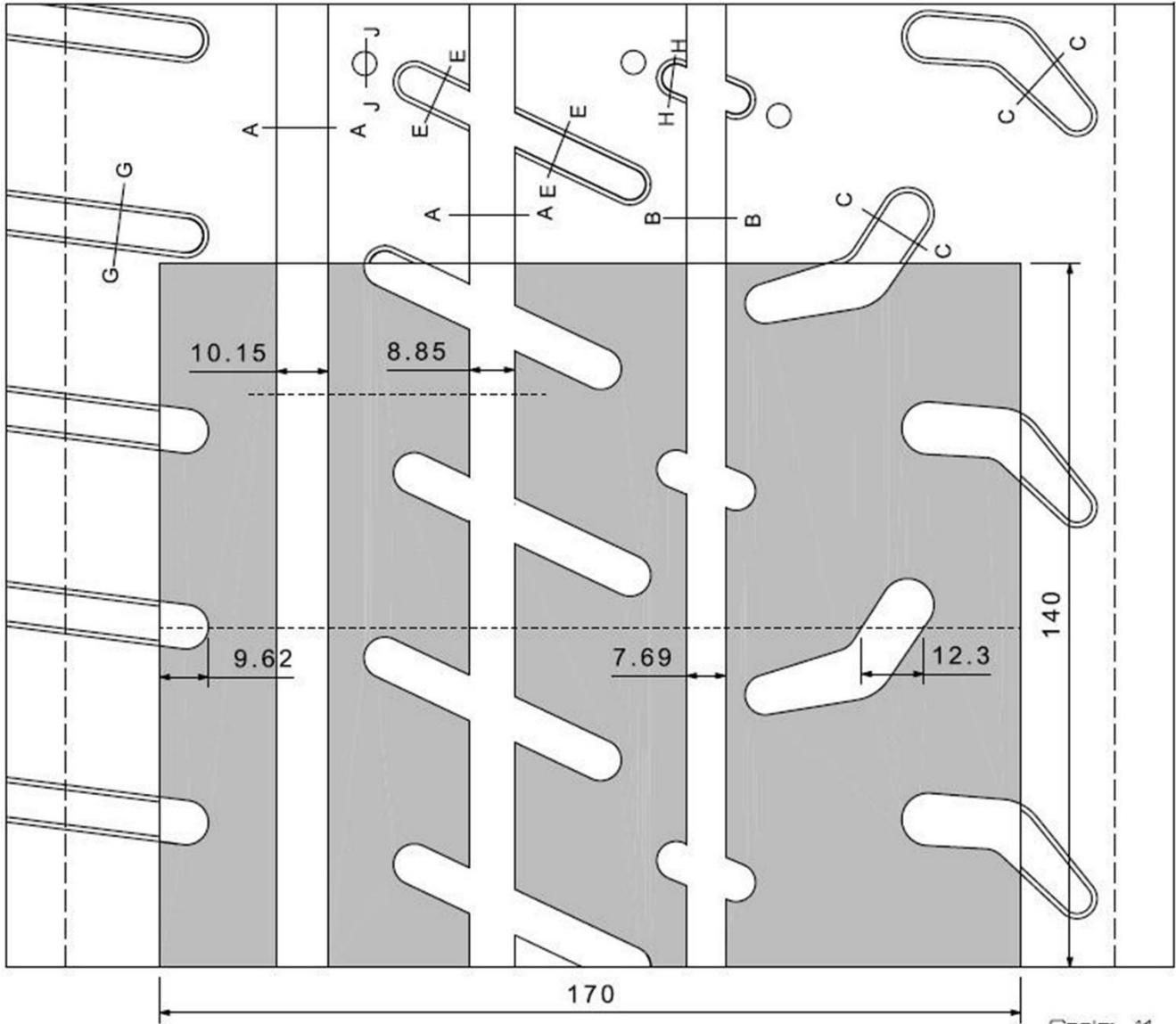
Moulded tyre for FIA homologation

Size : 210/645R18

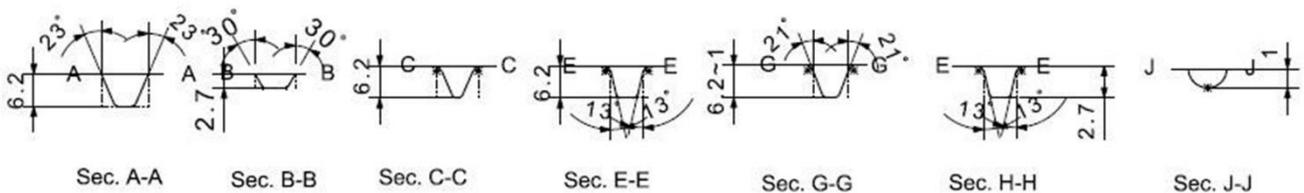
Pattern : TM01

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

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



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





KUMHO TYRES

18" - 210/645R18

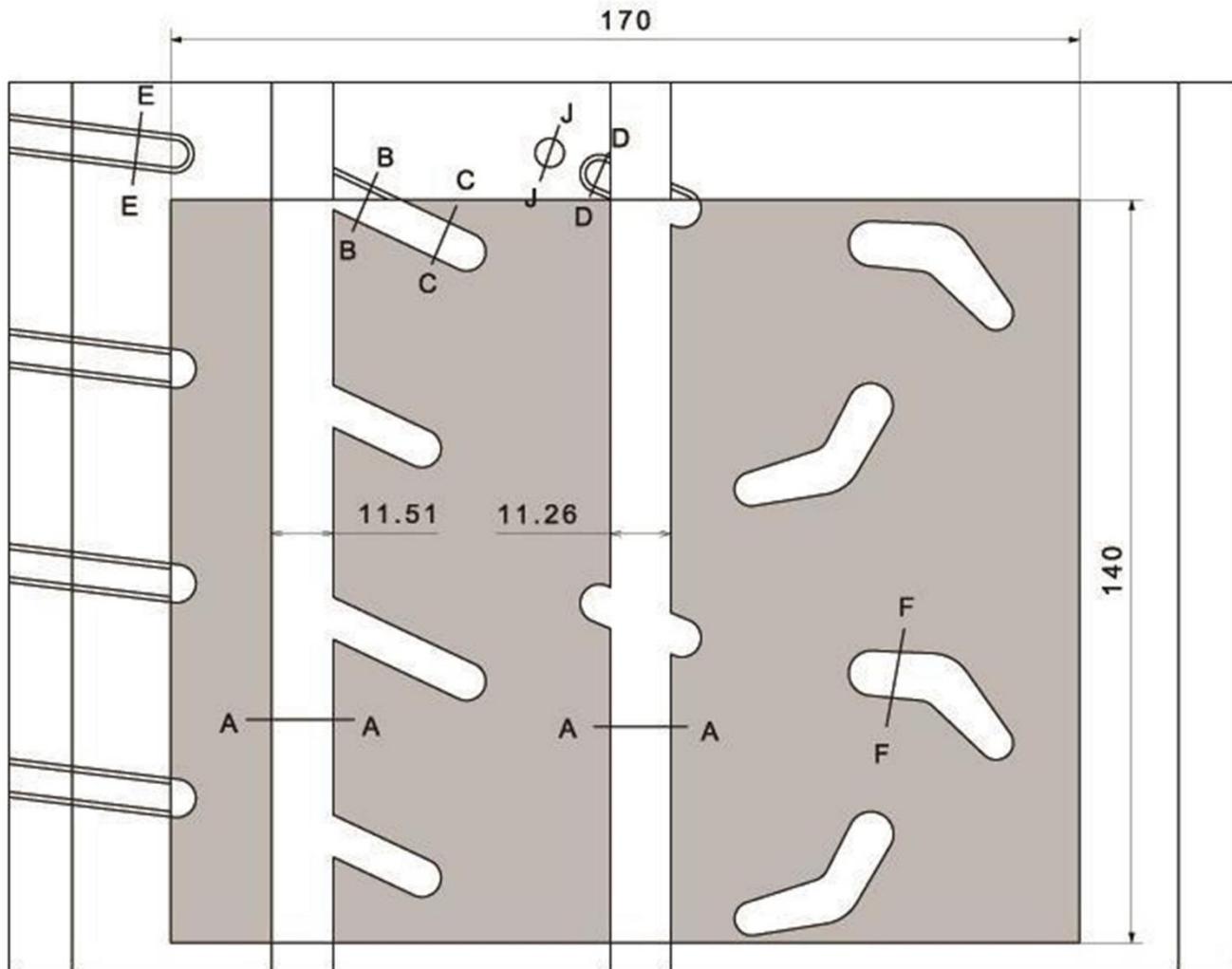
Moulded tyre for FIA homologation

Size : 210/645R18

Pattern : TM02

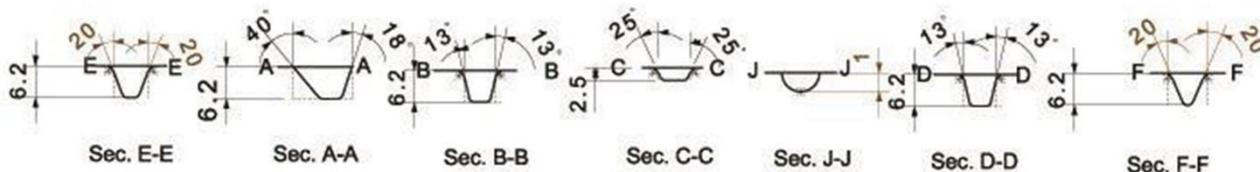
On the basis of a tread pattern width of 170mm and circumference of 140mm

- 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

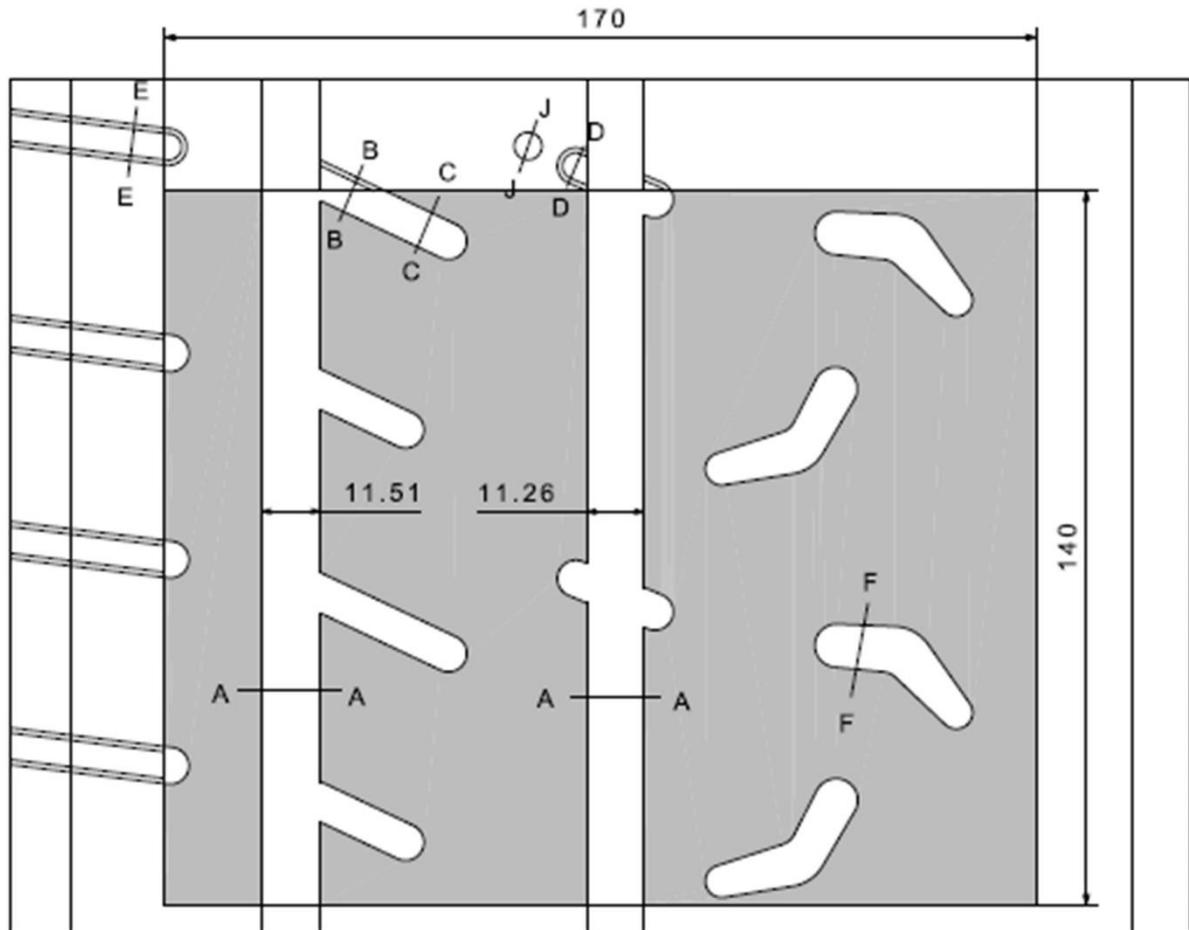
Moulded tyre for FIA homologation

Size : 210/645R18

Pattern : TM02

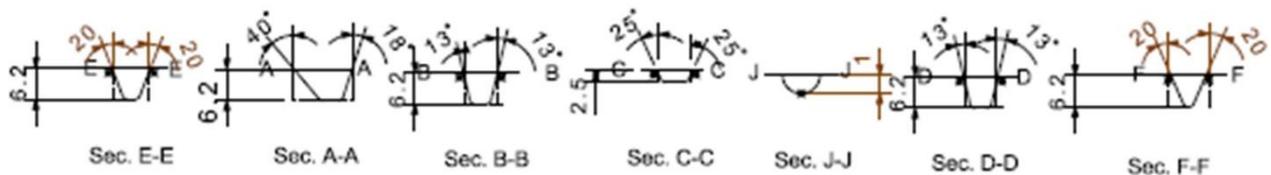
On the basis of a tread pattern width of 170mm and circumference of 140mm

- 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%





KUMHO TYRES

18" - 210/645R18

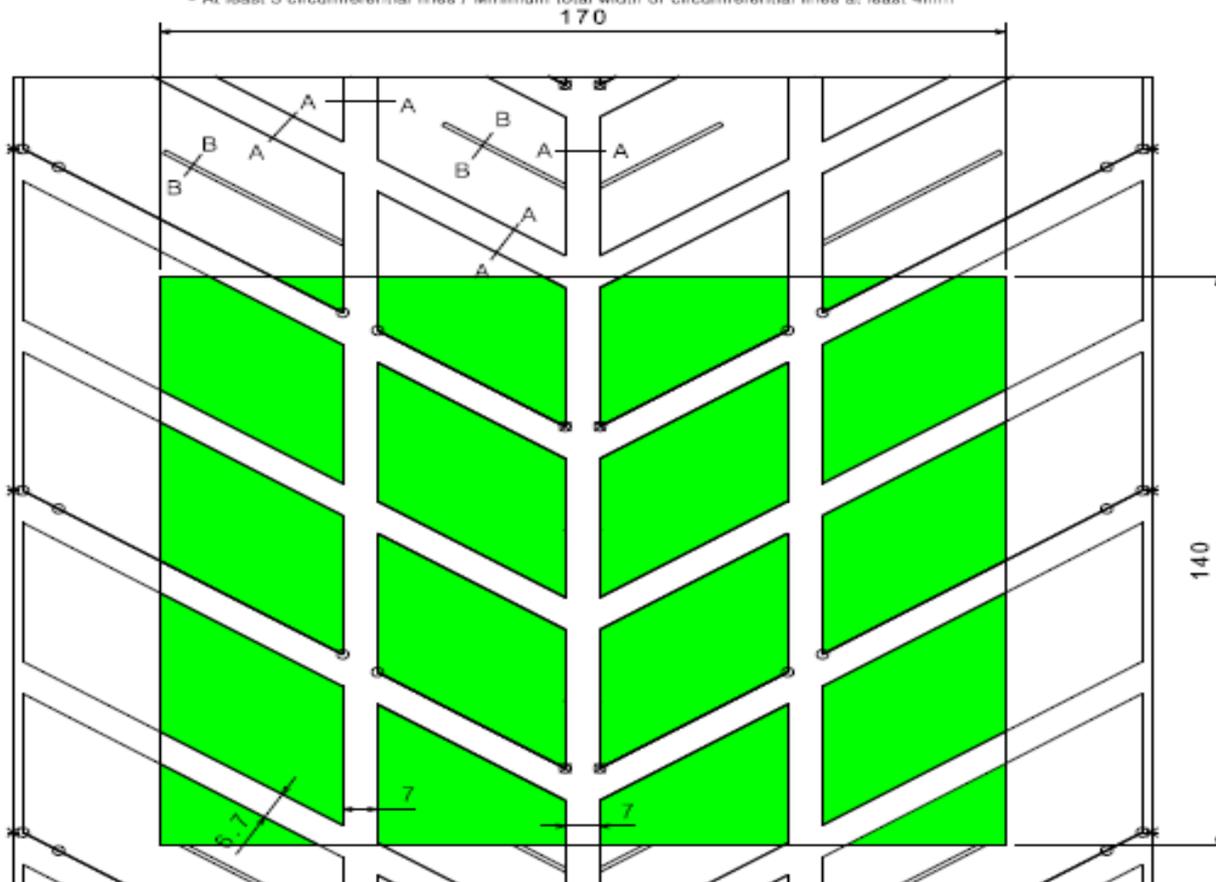
KUMHO TIRE

Moulded tyre for FIA homologation

Size : 210/645R18

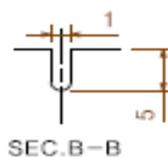
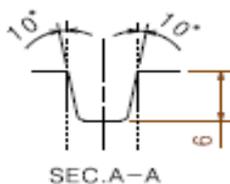
Pattern : TW03

- On the basis of a tread pattern width of 170mm and circumference of 140mm
- The surface taken up by grooves at least 5.5mm deep must occupy at least 27.5% of the total surface.
 - The sum of the width of the grooves encountered by a radial line must be at least 15mm
 - At least 3 circumferential lines / Minimum total width of circumferential lines at least 4mm



Scale: 1:1

Groove Area by 170 x 140 at least 5.5mm deep : 6789.4mm^2
 Void % : 28.5%





17" - 190/630R17

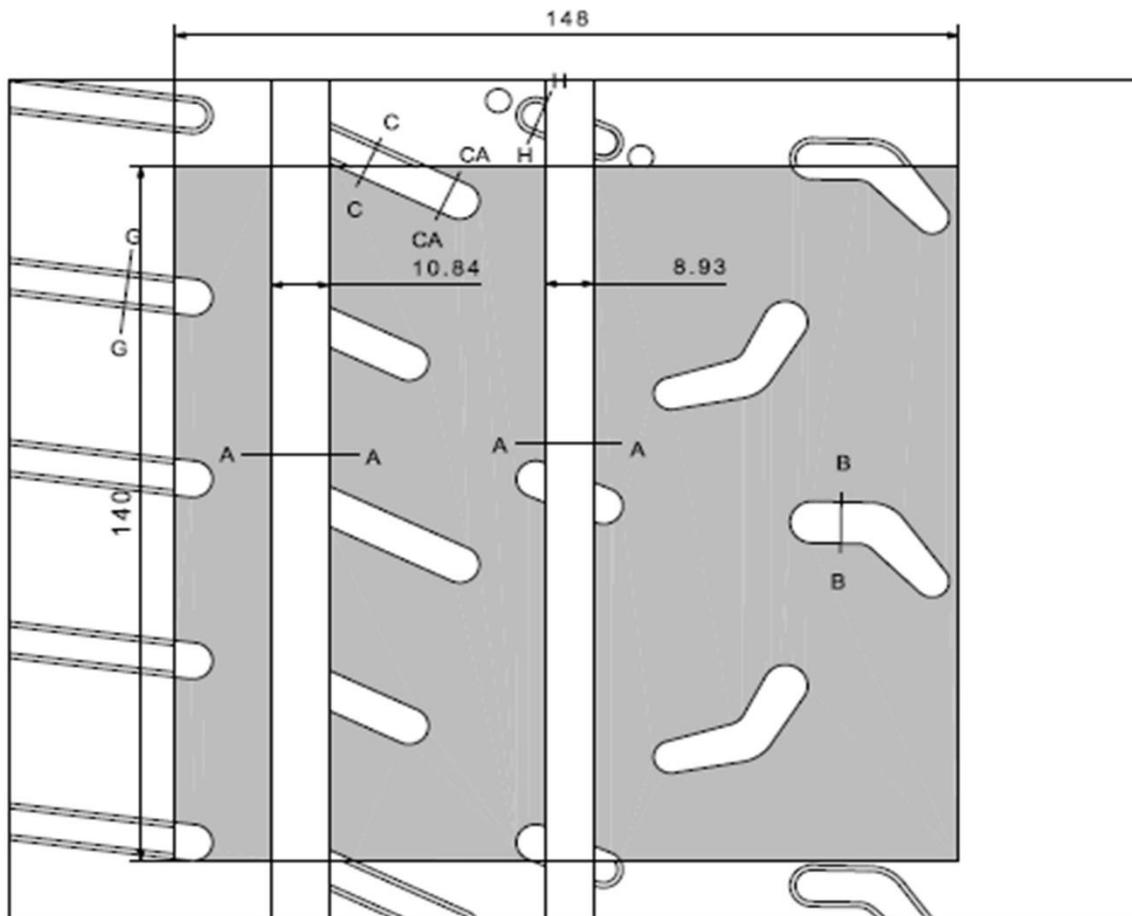
Moulded tyre for FIA homologation

Size : 190/630 R17

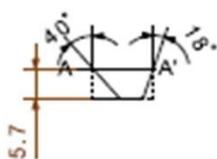
Pattern : TM02

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

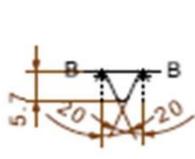
- The surface taken up by grooves at least 5.5 mm deep, with a maximum angle of 60° between the block in section and 2mm wide, must occupy at least 17% of the total surface.
- The surface taken up by grooves at least 1.8 mm deep, with a maximum angle of 60° between the block in section and 2mm wide,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



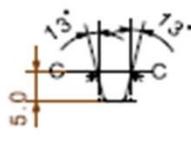
Groove Area by 148 x 140 at least 1.8mm deep : 4579.1mm²
 Void % : 22.1%
 Groove Area by 148 x 140 at least 5.5mm deep : 3688.1mm²
 Void % : 17.8%



Sec. A-A'



Sec. B-B



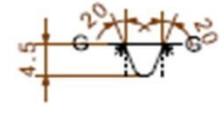
Sec. C-C



Sec. CA-CA



Sec. H-H



Sec. G-G



16" - 190/600R16

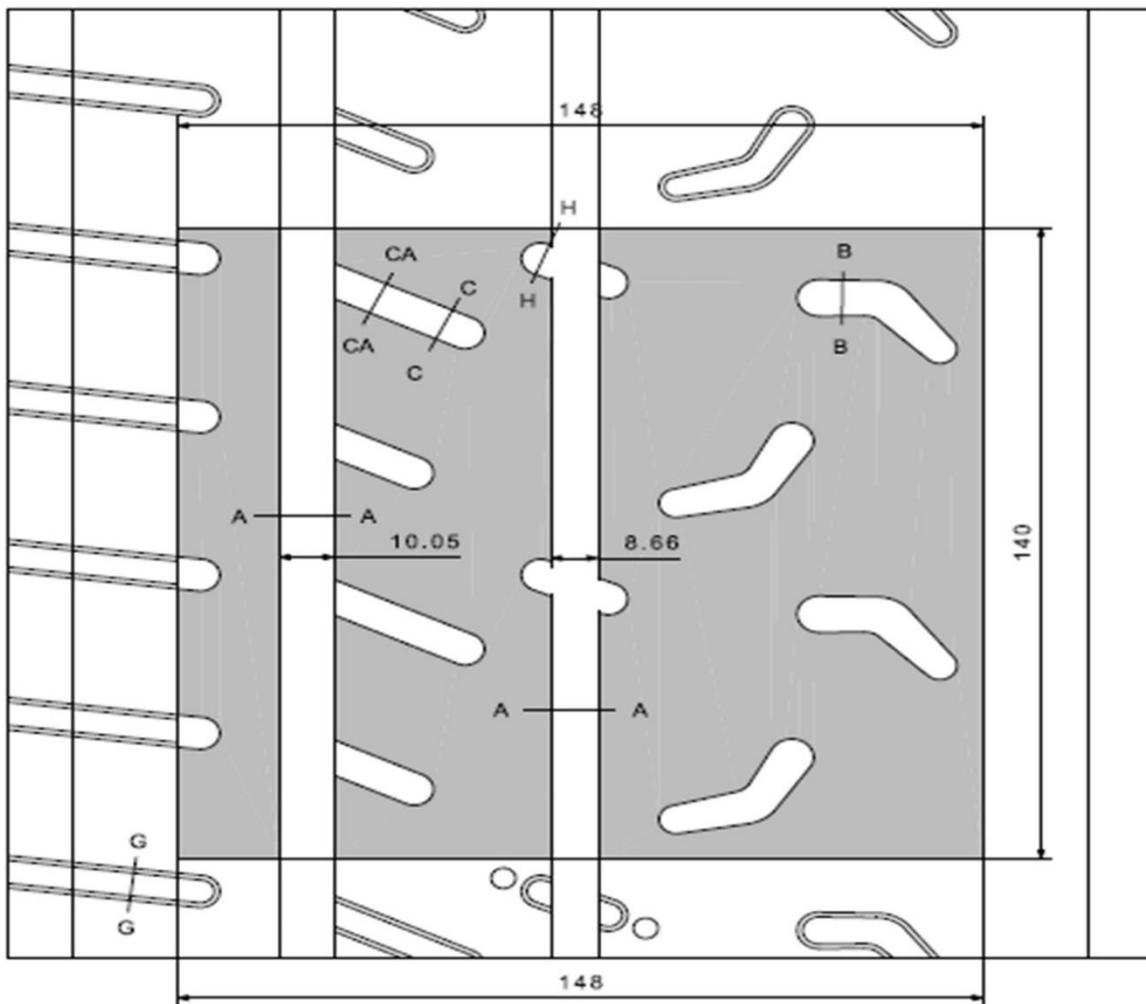
Moulded tyre for FIA homologation

Size : 190/600 R16

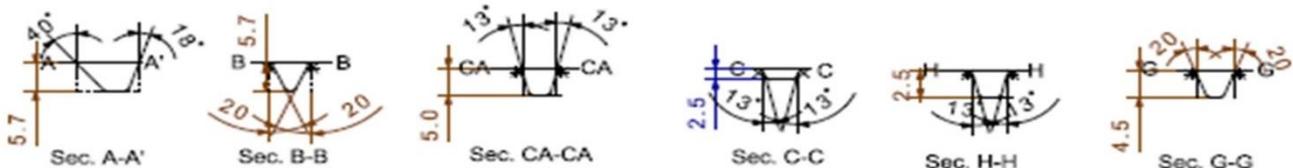
Pattern : TM02

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

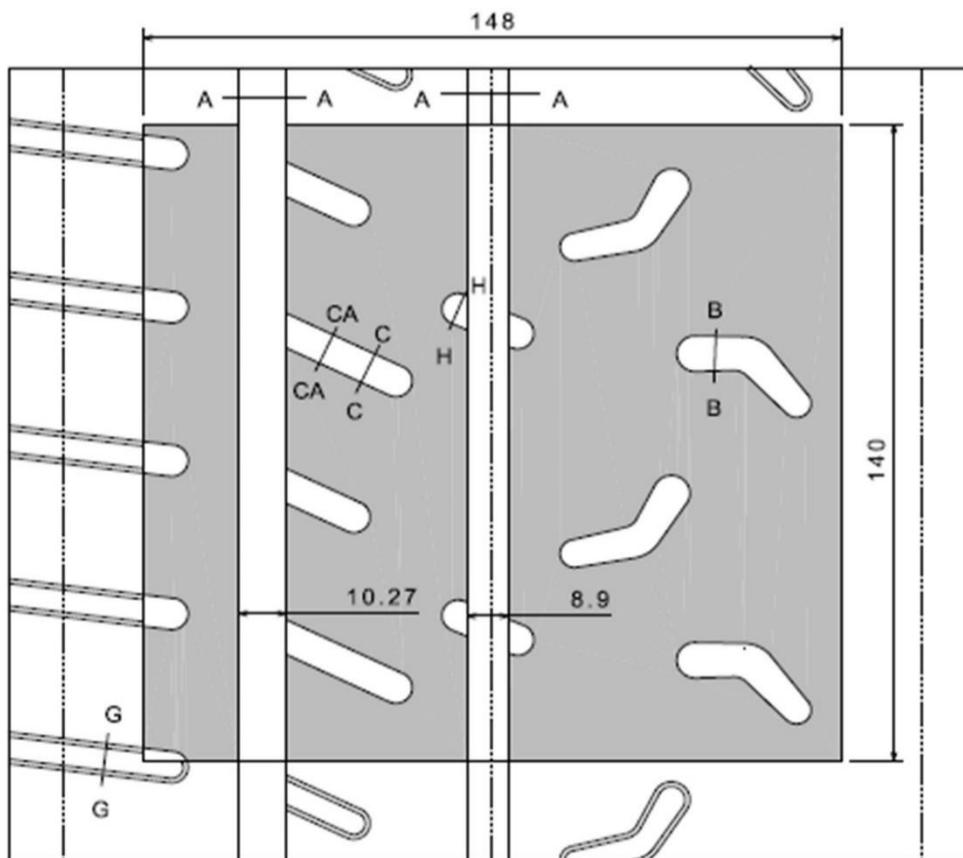
Moulded tyre for FIA homologation

Size : 180/580 R15

Pattern : TM02

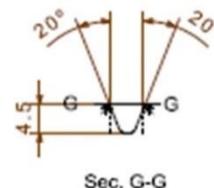
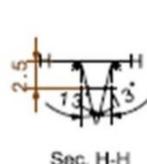
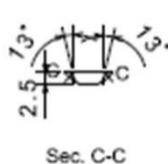
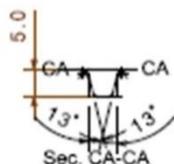
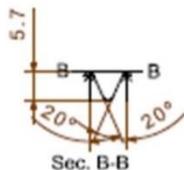
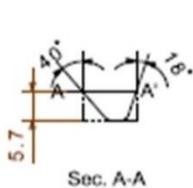
On the basis of a tread pattern width of 148mm and circumference of 140mm

- 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

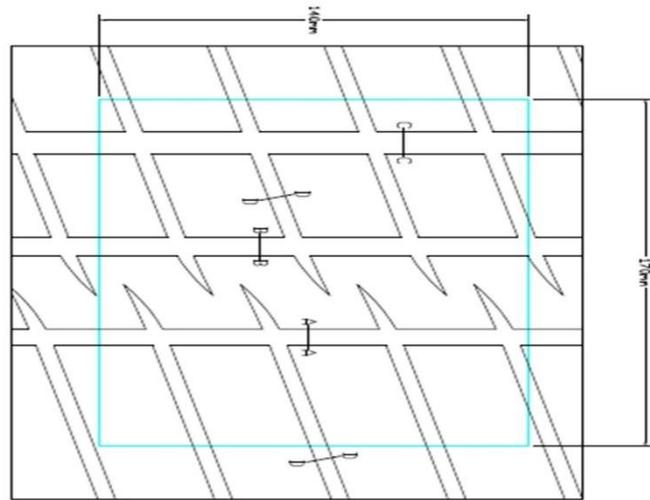
Groove Area by 148 x 140 at least 1.8mm deep : 4599.8mm²
 Void % : 22.2%
 Groove Area by 148 x 140 at least 5.5mm deep : 3563.8mm²
 Void % : 17.2%



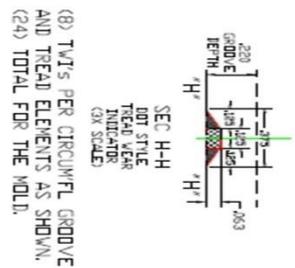
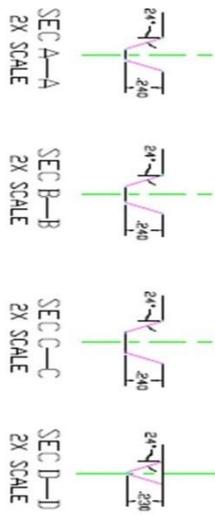
Hoosier

RACING TIRE

18" - 225/40R18



CONTROL SURFACE = 23,800mm²
 GROOVES 25,5mm DEEP = 6,5864mm² = 28,09%

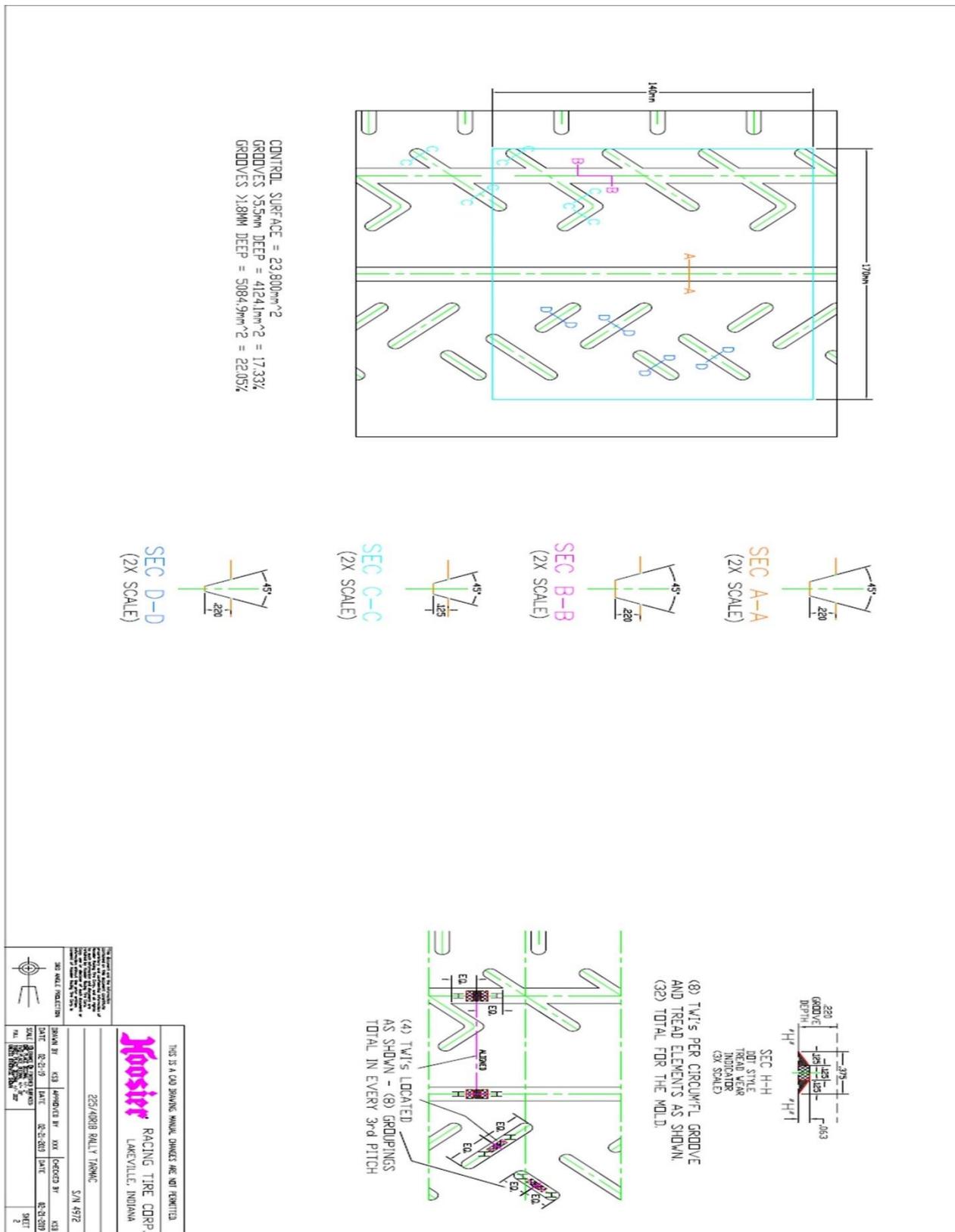


HOOSIER RACING TIRE CORP. LAKEVILLE, INDIANA	
225/40R18 TRUCK PALLY	
DATE: 10-20-2018	DATE:
TIME: 10:00 AM	TIME:
DRAWN BY:	CHECK BY:
DATE:	DATE:
PART:	PART:

Hoosier

RACING TIRE

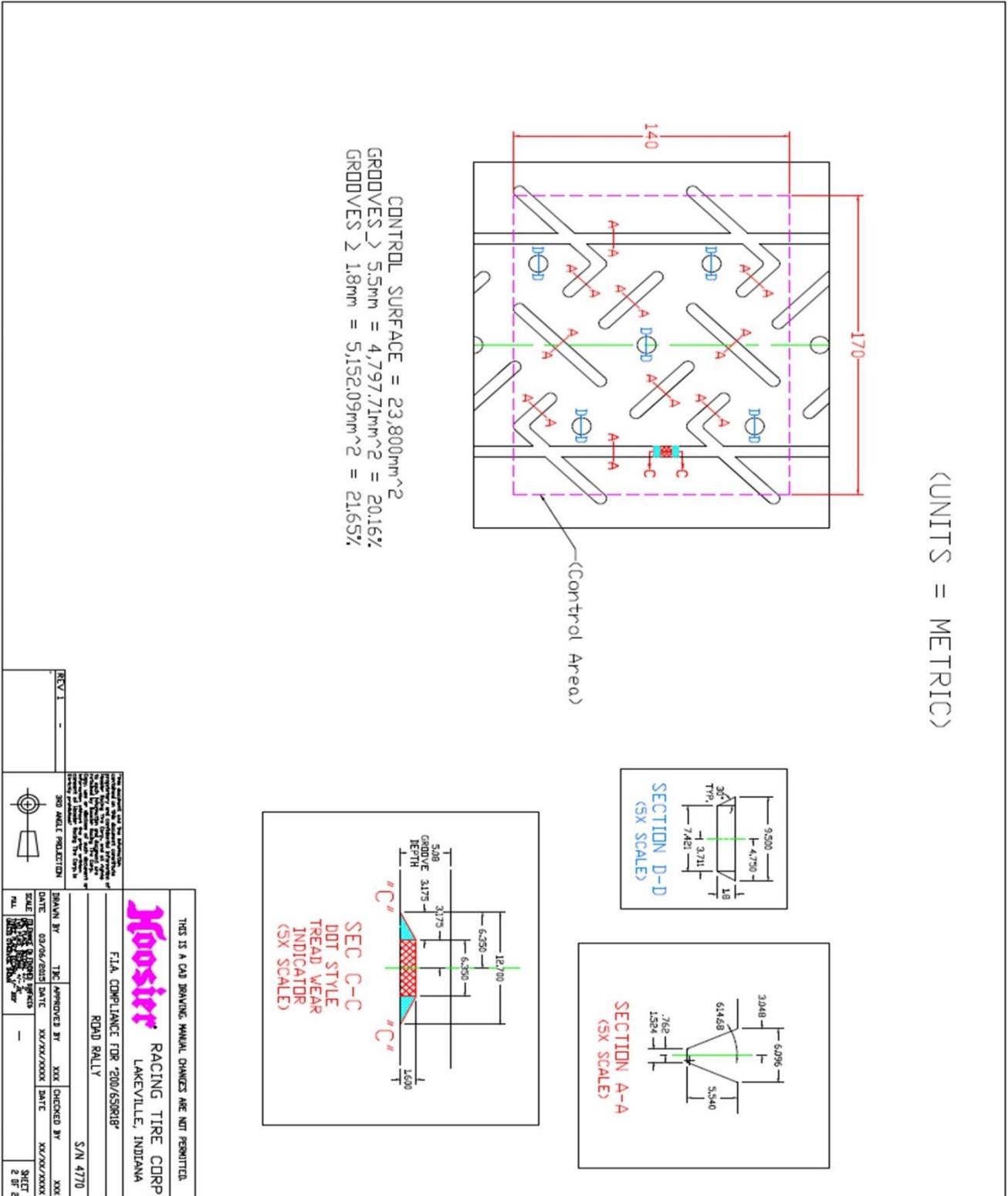
18" - 225/40R18



Hoosier

RACING TIRE

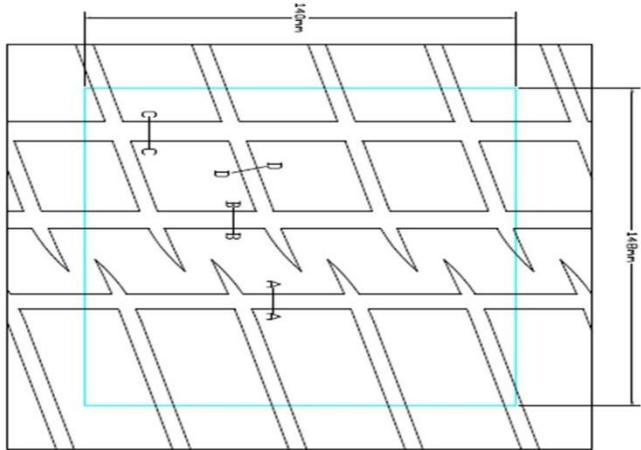
18" - 200/650R18



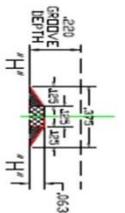
Hoosier

RACING TIRE

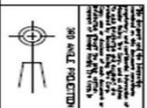
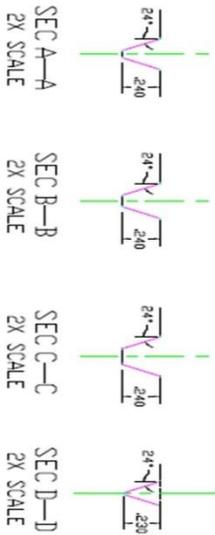
17" - 195/50R17



CONTROL SURFACE = 20,720mm²
 GROOVES >5.5mm DEEP = 5,967.3mm² = 28.80%



(8) TPI'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.
 LAMEVILLE, INDIANA

195/50R17 TREAD PATTERN

DATE: 02-20-2020
 DRAWN BY: ESI
 CHECKED BY: S/N 4995

DATE: 02-20-2020
 DRAWN BY: ESI
 CHECKED BY: S/N 4995

DATE: 02-20-2020
 DRAWN BY: ESI
 CHECKED BY: S/N 4995

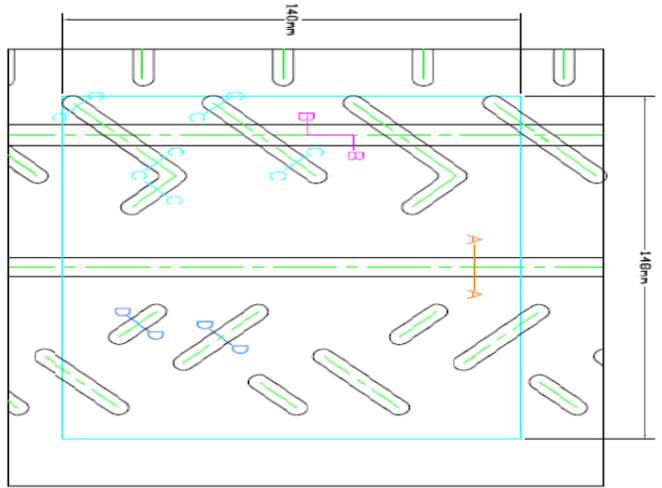
DATE: 02-20-2020
 DRAWN BY: ESI
 CHECKED BY: S/N 4995

DATE: 02-20-2020
 DRAWN BY: ESI
 CHECKED BY: S/N 4995

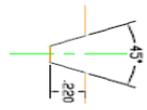
Hoosier

RACING TIRE

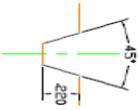
17" - 195/50R17



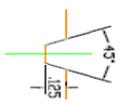
CONTROL SURFACE = $20,720\text{mm}^2$
 GROOVES >5.5MM DEEP = $3617,7\text{mm}^2 = 17,46\%$
 GROOVES >1.8MM DEEP = $4638,2\text{mm}^2 = 22,39\%$



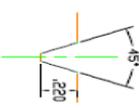
SEC A-A
(2X SCALE)



SEC B-B
(2X SCALE)



SEC C-C
(2X SCALE)

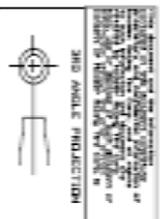
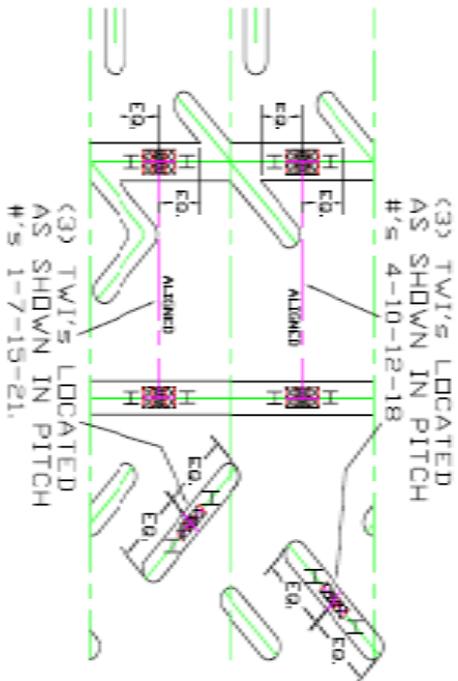


SEC D-D
(2X SCALE)



SEC H-H
DOT STYLE
TREAD WEAR
INDICATOR
(2X SCALE)

(8) TWI'S PER CIRCUM'FL 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

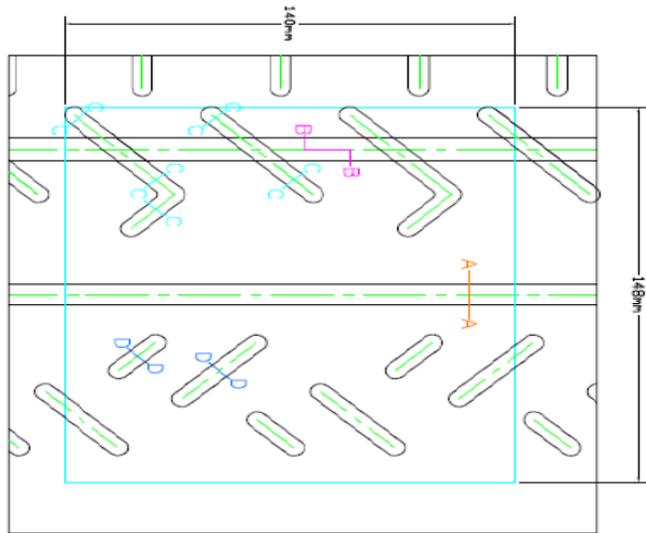
5/78 4927

DATE	SCALE	SCALE	SCALE	SCALE	SCALE
04-09-2018	1:1	1:1	1:1	1:1	1:1
DRAWN BY	CHECKED BY	APPROVED BY	CHECKED BY	APPROVED BY	CHECKED BY
KES	KXX	KXX	KXX	KXX	KXX
04-09-2018	04-09-2018	04-09-2018	04-09-2018	04-09-2018	04-09-2018
SHEET	1	1	1	1	1

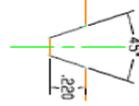
Hoosier

RACING TIRE

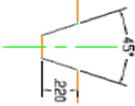
16" - 195/50R16



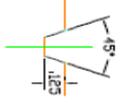
CONTROL SURFACE = $20,720\text{mm}^2$
 GROOVES >5.5mm DEEP = $3617,7\text{mm}^2$ = 17,46%
 GROOVES >1.9mm DEEP = $4638,2\text{mm}^2$ = 22,39%



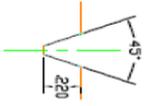
SEC A-A
(2X SCALE)



SEC B-B
(2X SCALE)



SEC C-C
(2X SCALE)



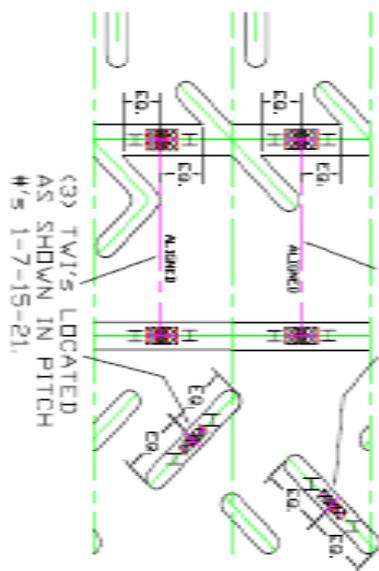
SEC D-D
(2X SCALE)



SEC H-H
DOT STYLE
TREAD WEAR
INDICATOR
(2X SCALE)

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

(3) TWI'S LOCATED
AS SHOWN IN PITCH
#S 4-10-12-18



(3) TWI'S LOCATED
AS SHOWN IN PITCH
#S 1-7-15-21.

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

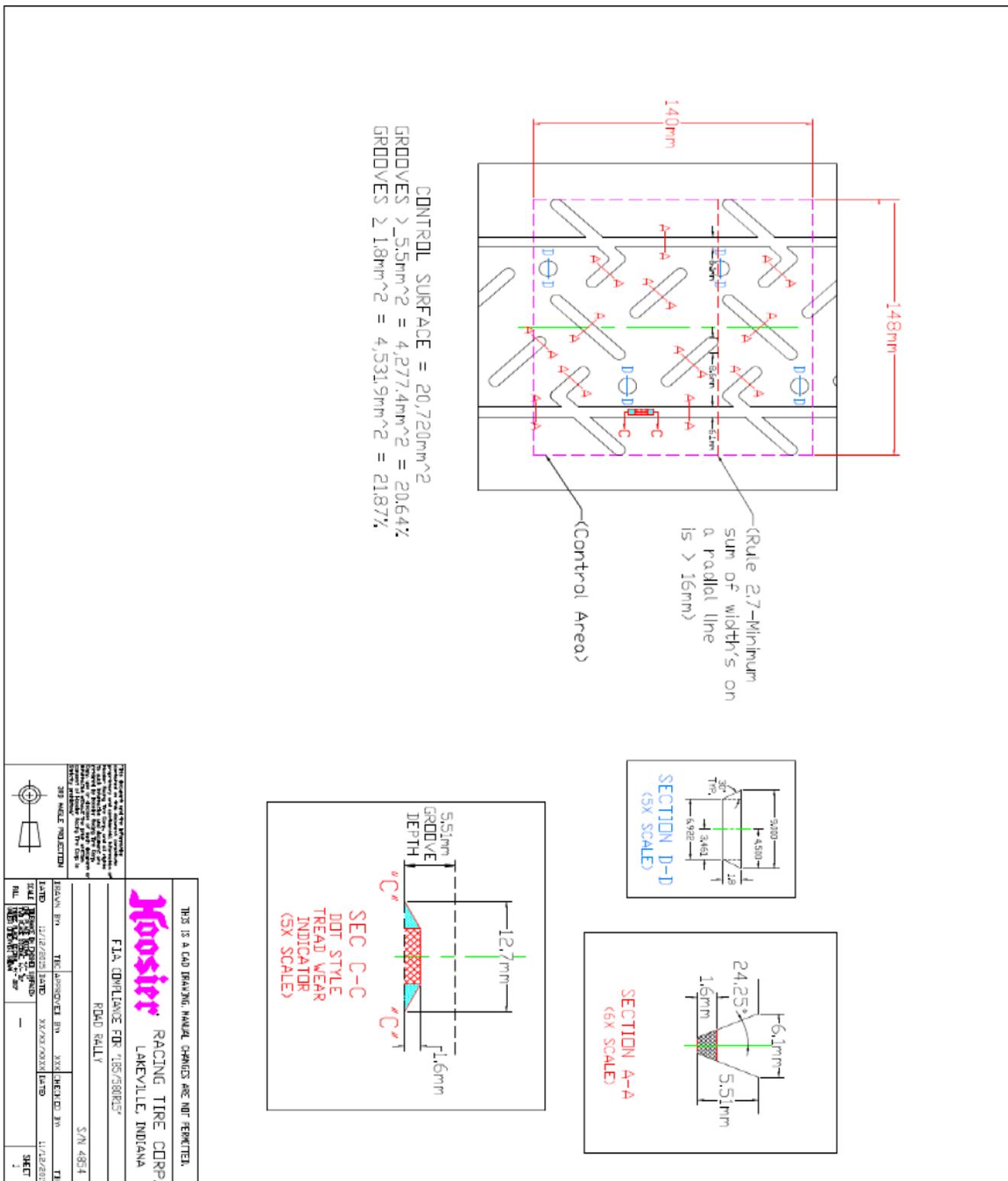
Hoosier RACING TIRE CORP.
LAKEVILLE, INDIANA

195/50R16 TARMAC RALLY

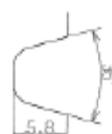
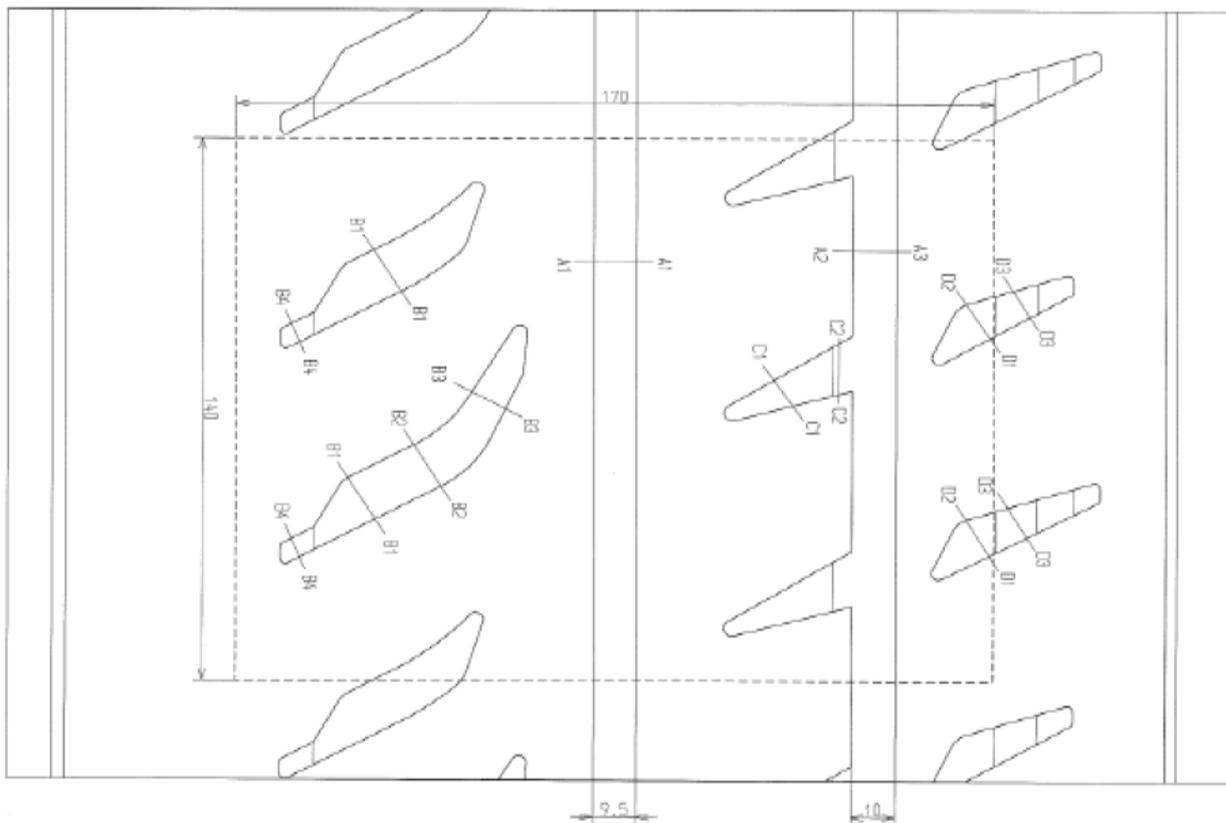
5/7/ 4936

DESIGNED BY	RSB	APPROVED BY	KHL
DATE	04-02-2008	DATE	XX-XX-XXXX
SCALE	1:1	SCALE	1:1
REV	1	REV	1

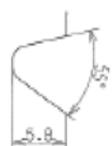
15" - 185/580R15



18" - 205/640R18



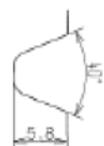
SEC.A1-A1



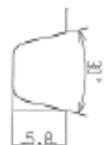
SEC.A2-A3



SEC.B1-B1



SEC.B2-B2



SEC.B3-B3



SEC.B4-B4



SEC.C1-C1



SEC.C2-C2



SEC.D1-D2



SEC.D3-D3

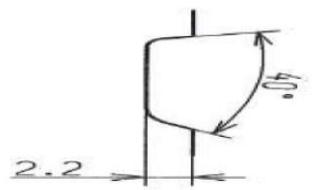
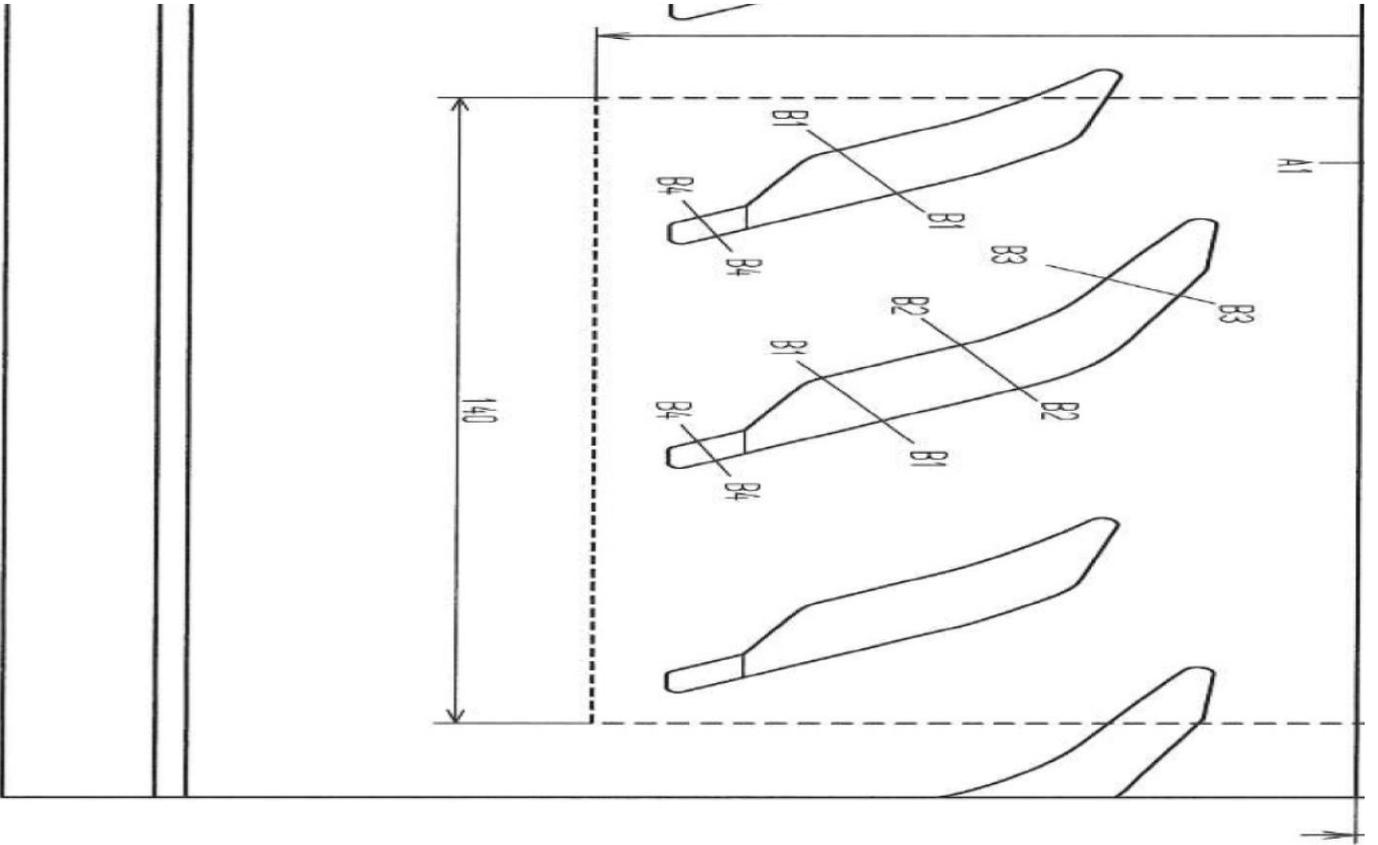
In the control area
5.5mm grooves-18,22
Total grooves 22,3x

-----Control area(170x140)

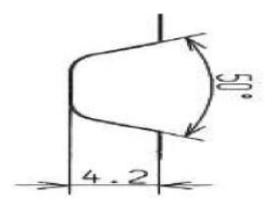
PRODUCT NAME
TOYO PROXES 888RT

SIZE 205/640R18

16" - 185/600R16



SEC. D1-D2



SEC. D3-D3

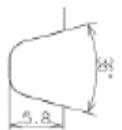
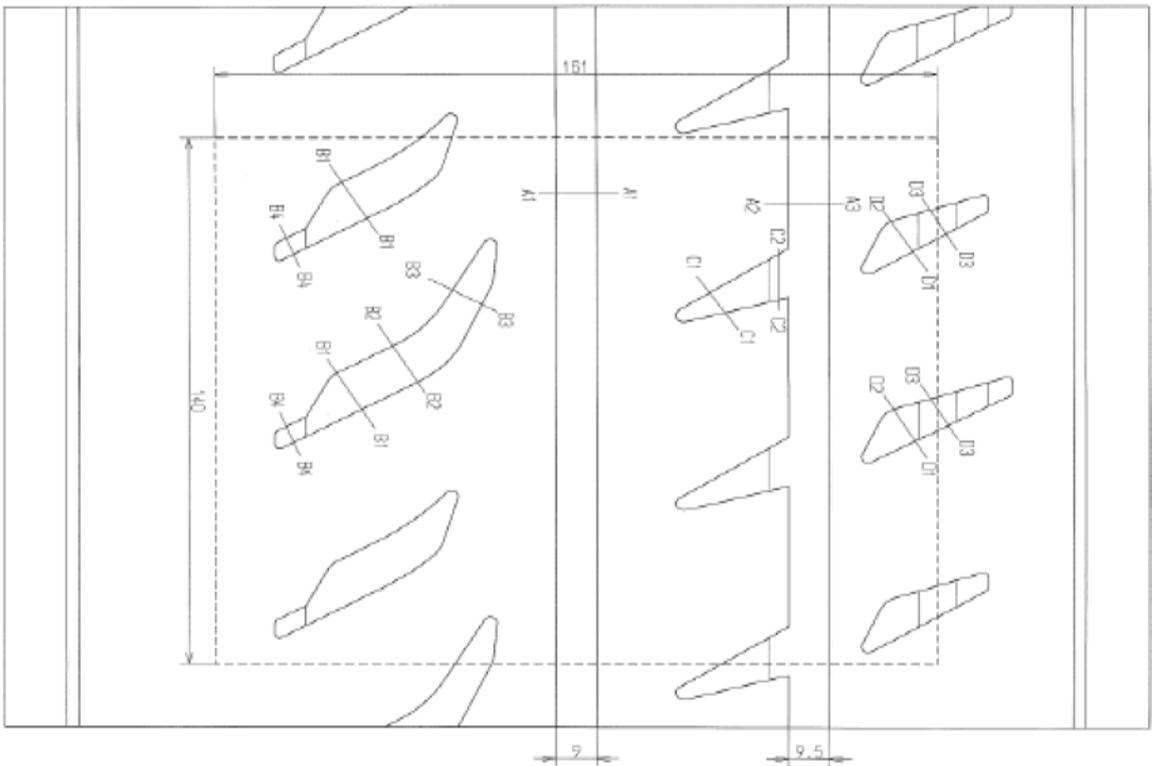
In the control area
5.5mm grooves-19.2%
Total grooves 23.1%

-----Control area(148x140)

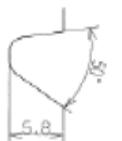
PRODUCT NAME
TOYO PROXES 888RT

SIZE 185/600R16

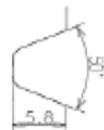
15" - 185/580R15



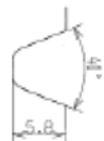
SEC.A1-A1



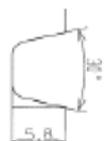
SEC.A2-A3



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 grove
5.5mm grooves-18.2Z
Total grooves 22.3Z

-----Control area(151 x 140)

PRODUCT NAME
TOYO PROXES 888RT

SIZE 185/580R15



MRF TYRES

NOVO 2020

18" - 235/40R18

MRF 235/40R18 ZWR1 TL

170

140

**CLASS 9"
RIM 8.0"**

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

Grooved area within Min. 5.5 mm deep grooves > 27.5%

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

If in doubt ask...

All dimensions in mm, unless otherwise specified

THE DRAWING IS THE PROPERTY OF MRF LTD. THE Dwg IS LOANED WITH THE PURPOSE OF ASSISTING THE CUSTOMER AND IS NOT TO BE REPRODUCED, COPIED OR OTHERWISE USED FOR ANY OTHER PURPOSE AND WILL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE DESIGN AND DEVELOPMENT OF ANY OTHER TYRE OR RIM. ANY REPRODUCTION, EITHER IN WHOLE OR IN PART, WITHOUT THE WRITTEN PERMISSION OF MRF LTD. IS STRICTLY PROHIBITED. THE DRAWING WILL BE CONSIDERED AS AN ACCEPTANCE OF THE PROPOSED DESIGN BY THE CUSTOMER. IF ANY DIMENSIONS ARE NOT SPECIFIED IN THE DRAWING, THEY WILL BE AS PER THE STANDARD SPECIFICATIONS OF THE INDUSTRY.

S.No.	DATE	DESCRIPTIONS	DRAWN	VPRD / PDM

CHENNAI

MRF

INDIA

DRAWN

APPROVED

SCALE

SIGNATURE: G. Kirubakaran

DATE: 10.02.2020

T.N. Sankar

VPRD / PDM

17.02.2020

NTS

F.I.A COMPLIANCE FOR 235/40R18 ZWR1 TL

CORPORATE TECHNICAL MOLD DESIGN

DRG No. RR-235/40R18_0720

SAP DOCUMENT TYPE: SAP DOCUMENT No. VER 1

REVISION No. 00



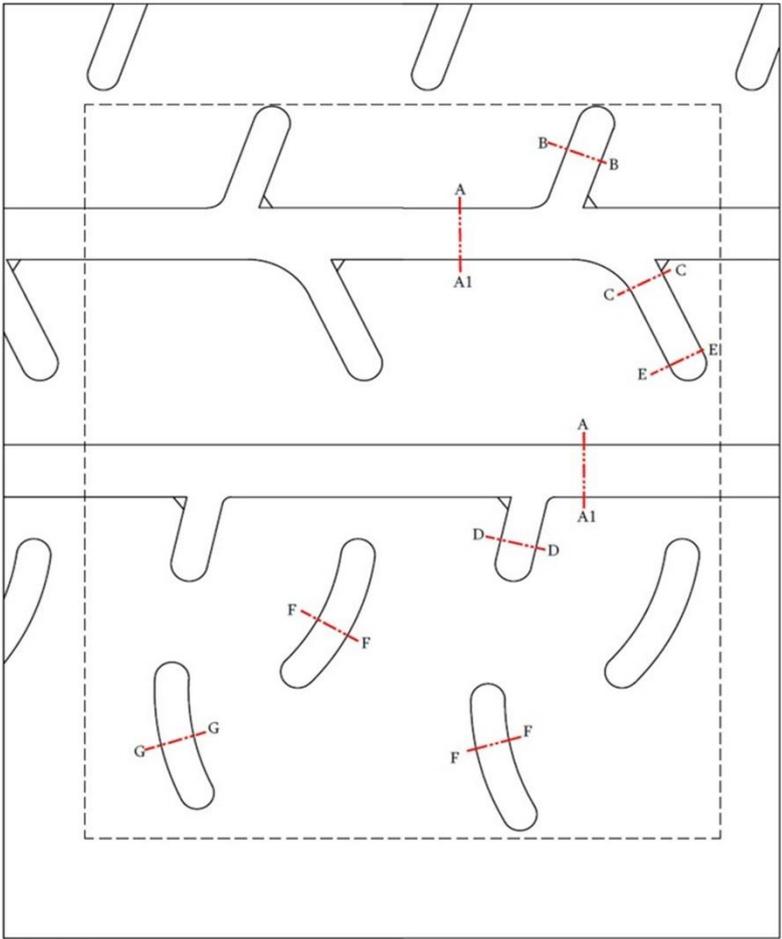
MRF TYRES

18" - 235/40R18



MRF 235/40R18 ZTA1 TL

170



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

Grooved area within Min. 1.8 deep grooves > 21.5%

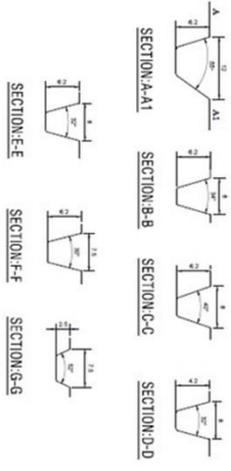
Grooved area within Min. 5.5 deep grooves > 17.0%

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"**

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



THIS DRAWING IS THE PROPERTY OF MRF LTD. THIS IS TO BE LOANED WITH THE EXPRESS AGREEMENT THAT THE DRAWING AND INFORMATION HEREIN CONTAINED ARE THE PROPERTY OF MRF LTD. AND WILL NOT BE REPRODUCED, COPIED OR OTHERWISE DISSEMINATED OR USED IN ANY MANNER OR TO INFRINGE ANY PATENT RIGHTS OR TO INFRINGE ANY OTHER RIGHTS OF MRF LTD. WITHOUT THE WRITTEN PERMISSION OF MRF LTD. ANY INFORMATION OR DATA CONTAINED HEREIN IS TO BE KEPT CONFIDENTIAL AND NOT TO BE DISCLOSED TO ANY OTHER PARTY WITHOUT THE WRITTEN PERMISSION OF MRF LTD. THE DRAWING WILL BE CONSIDERED AS AN ACCEPTANCE OF THE FOREGOING AGREEMENT THIS DRAWING IS TO BE RETURNED TO THE COMPANY OR ITS AUTHORIZED REPRESENTATIVE ON COMPLETION OF THE JOB.

6

5

4

3

2

1

S.No.	DATE	DESCRIPTIONS	DRAWN	EXPROD / PDM
REVISIONS				
CHENNAI				
DRAWN		INDIA		
SIGNATURE		APPROVED		
DATE		T N Sundar		
		EYPRD / PDM		
		NTS		
		SCALE		
F.I.A COMPLIANCE FOR 235/40R18 ZTA1 TL				
CORPORATE TECHNICAL MOLD DESIGN		DRG No.		REVISION No.
SAP DOCUMENT TYPE:		RR-235/40R18_0518		00
SAP DOCUMENT No.		VER		

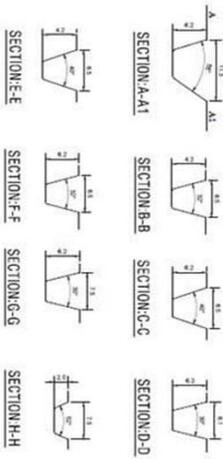
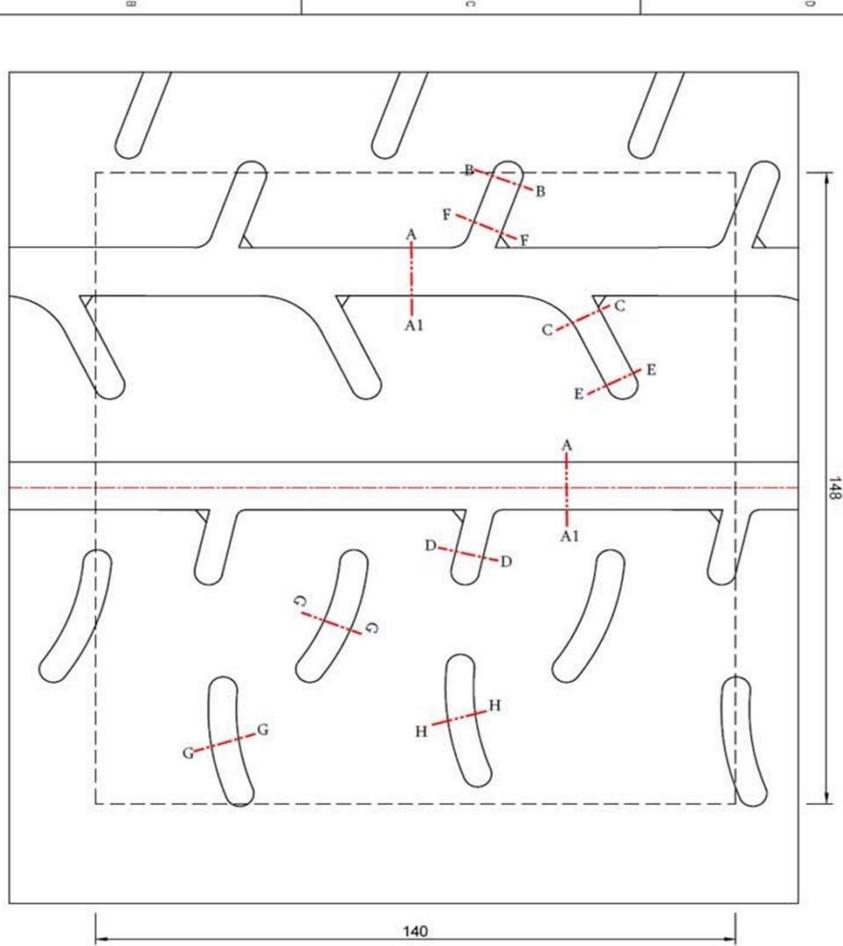


MRF TYRES

17" - 205/45R17



MRF 205/45R17 ZTA1 TL



All dimensions are in mm, unless otherwise specified.

IF IN DOUBT ASK...

THIS DRAWING IS THE PROPERTY OF MRF LTD. THIS DRAWING IS LOANED WITH THE EXPRESSED AGREEMENT THAT THE PROPERTY OF THE MRF LTD. AND WILL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF IN ANY MANNER OR IN WHOLE OR IN PART TO ASSIST IN WORK OR TO OBTAIN ANY INFORMATION FOR THE MAKING OF SIMILAR PARTS OR OTHER REPRODUCTION THEREOF OR FOR ANY OTHER PURPOSES WITHOUT THE WRITTEN PERMISSION OF MRF LTD. FIRST OBTAINED AND SPECIFIC AS TO EACH CASE THE ACCEPTANCE OF THIS DRAWING WILL BE CONSIDERED AS AN ACCEPTANCE OF THE FOREGOING AGREEMENT. THIS DRAWING IS TO BE RETURNED TO THE COMPANY OR ITS AUTHORIZED REPRESENTATIVE ON COMPLETION OF THE JOB.

NOT TO SCALE

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

Grooved area within Min. 1.8 deep grooves > 21.5%

Grooved area within Min. 5.5 deep grooves > 17.0%

The total width of the circumferential line is >12 mm

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

**CLASS 8"
RIM 7.0"**

S.No.	DATE	DESCRIPTIONS	DRAWN	EVPRD / PDM

CHENNAI
DRAWN
INDIA

SIGNATURE	DATE	APPROVED	SCALE
G. Kumbhakar	25.01.18	T. N. Sundar	NTS
DE		EVPRD / PDM	

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

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

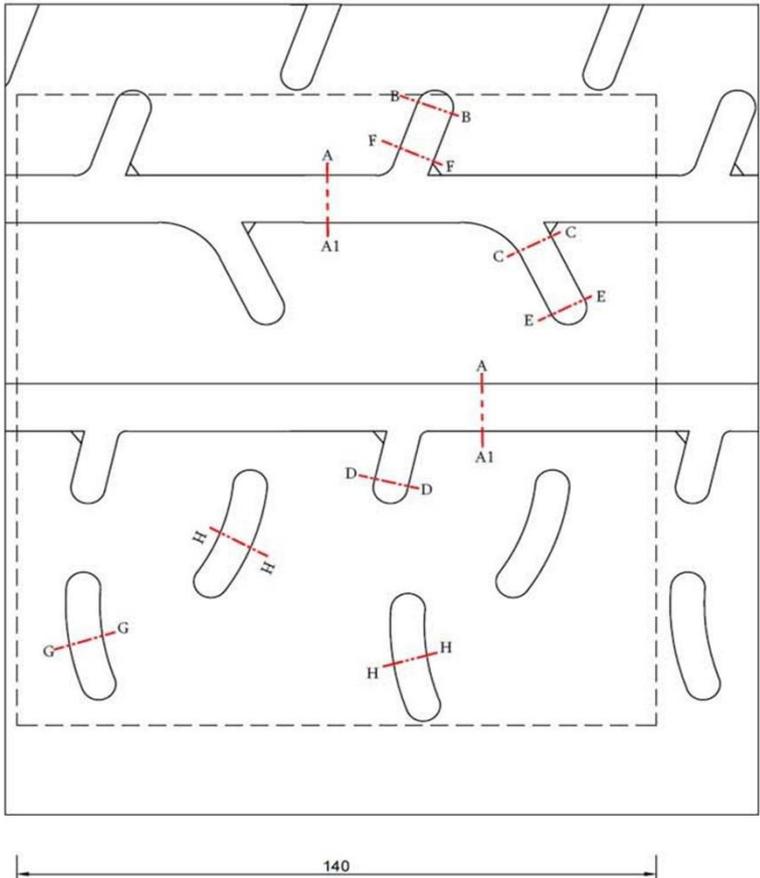


MRF TYRES

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"**

All dimensions are in mm, unless otherwise specified

IF IN DOUBT ASK...
NOT TO SCALE

S.No	DATE	DESCRIPTIONS	DRAWN	EVPRD / PDM
REVISIONS				

CHENNAI		INDIA	
DRAWN		APPROVED	
SIGNATURE		T N Sundar	
G Kirubakar		EVPRD / PDM	
DE		29.01.18	
DATE		25.01.18	

F.I.A COMPLIANCE FOR 195/50R16 ZTA1 TL			
CORPORATE TECHNICAL MOULD DESIGN		DRG No. RR-195/50R16_0518	
SAP DOCUMENT TYPE	SAP DOCUMENT No.	VER	REVISION No.
			00

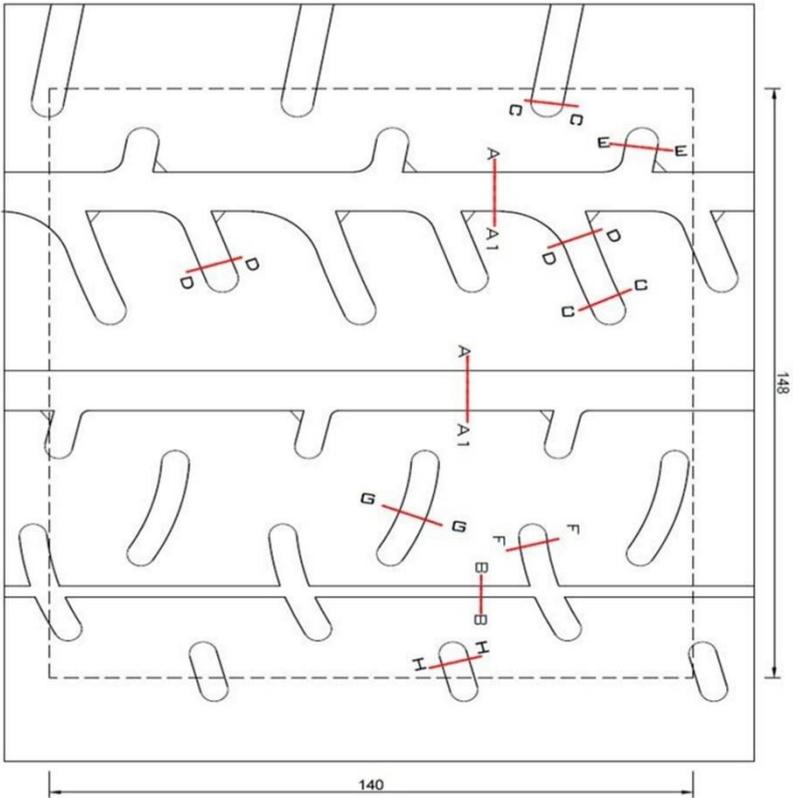


MRF TYRES

15" - 195/50R15



MRF 195/50R15 ZTA1 TL



148

140

**CLASS 8"
RIM 6.5"**

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

THIS DRAWING IS THE PROPERTY OF MRF LTD. THIS DRAWING IS LOANED WITH THE EXPRESSED AGREEMENT THAT THE DRAWING AND INFORMATION THEREIN CONTAINED ARE THE PROPERTY OF THE MRF LTD. AND WILL NOT BE REPRODUCED, COPIED OR OTHERWISE DISSEMINATED OR IN ANY MANNER AND WILL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE DESIGN OR DEVELOPMENT OF ANY OTHER TYRE OR OTHER REPRODUCTIONS THEREOF OR FOR ANY OTHER PURPOSES WITHOUT THE WRITTEN PERMISSION OF MRF LTD. FIRST PUBLISHED AND SPECIFIC AS TO EACH DATE THE ACCEPTANCE OF THIS DRAWING WILL BE CONSIDERED AS AN ACCEPTANCE OF THE PREVIOUS AGREEMENT. THIS DRAWING IS TO BE RETURNED TO THE COMPANY OR ITS AUTHORIZED REPRESENTATIVE ON COMPLETION OF THE JOB.

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

NOT TO SCALE

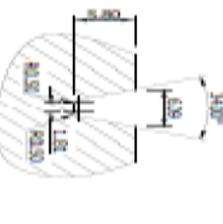
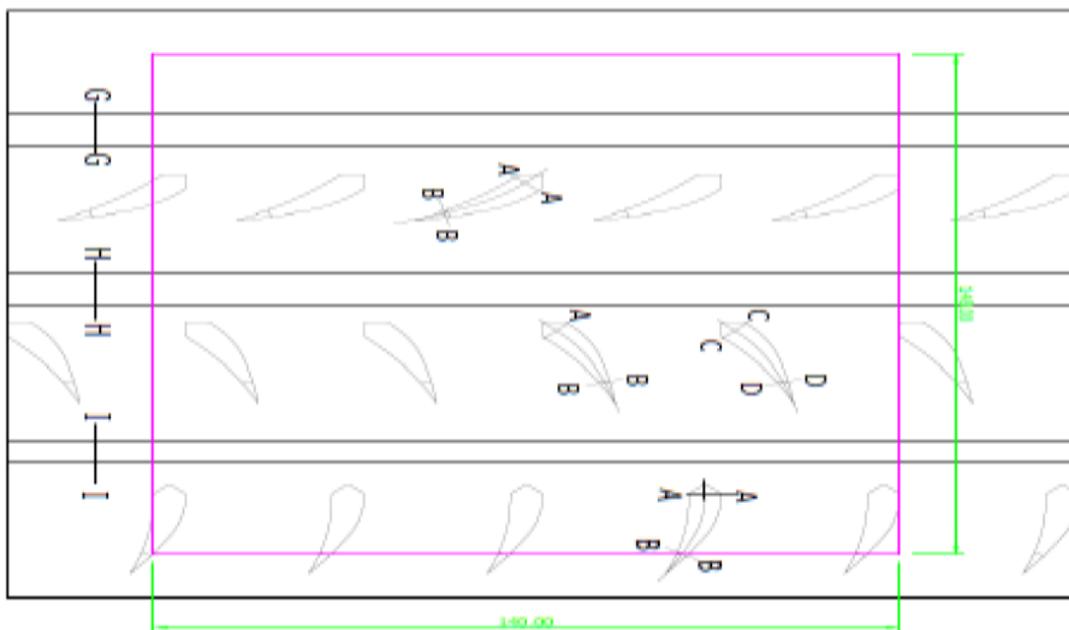
S.No.	DATE	DESCRIPTIONS	DRAWN	EVPRD / PDM

CHENNAI		INDIA	
DRAWN	G. Kirishakar	APPROVED	T.N. Sundar
SIGNATURE	DE	EVPRD / PDM	NTS
DATE	25.01.18	DATE	29.01.18

F.I.A COMPLIANCE FOR 195/50R15 ZTA1 TL

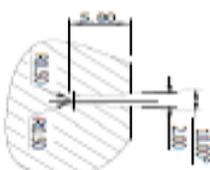
CORPORATE TECHNICAL MOULD DESIGN	DRG No.	RR-195/50R15_0518	REVISION No.	00
SAP DOCUMENT TYPE	SAP DOCUMENT No.	VER		

15" - 195/50R15



Section A:A

SCALE 2:1



Section B:B

SCALE 2:1



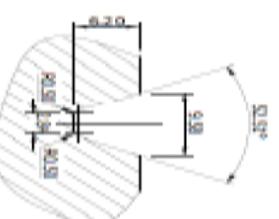
Section C:C

SCALE 2:1



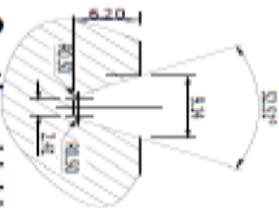
Section D:D

SCALE 2:1



Section G:G

SCALE 2:1



Section H:H

SCALE 2:1



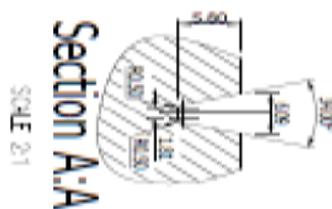
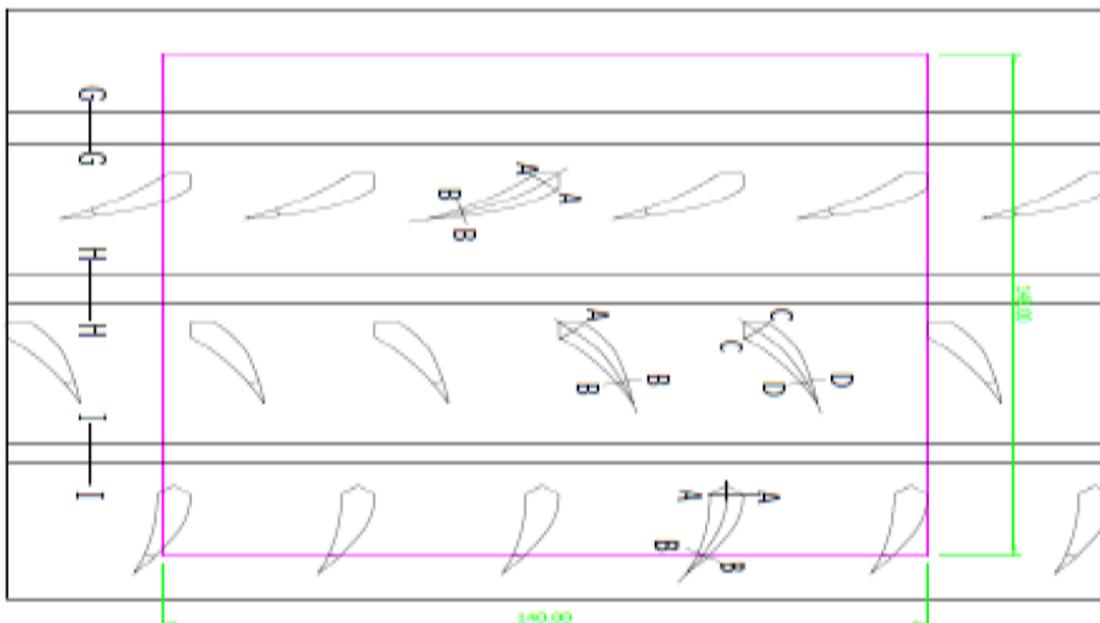
Section I:I

SCALE 2:1

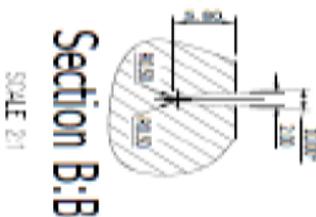
5.5m Groove - 17.74%
Total Grooves - 22.46%

Rim - 7.0"
Class - 8.0"

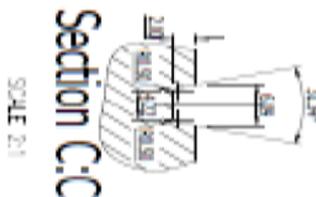
16" - 195/50R16



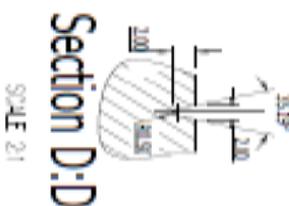
Section A:A
SCALE 2:1



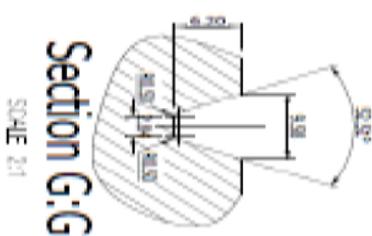
Section B:B
SCALE 2:1



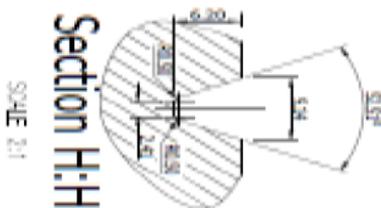
Section C:C
SCALE 2:1



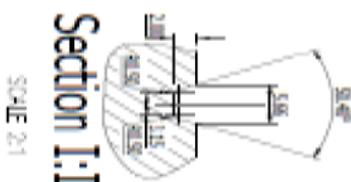
Section D:D
SCALE 2:1



Section G:G
SCALE 2:1



Section H:H
SCALE 2:1

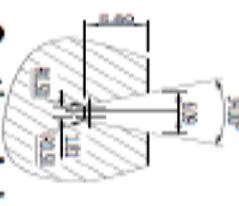
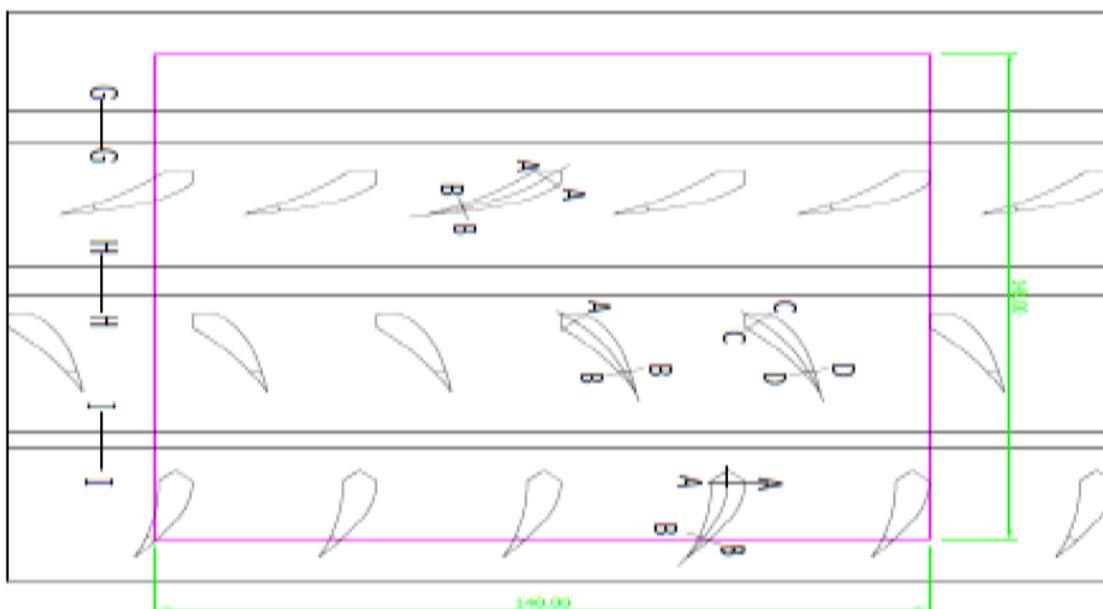


Section I:I
SCALE 2:1

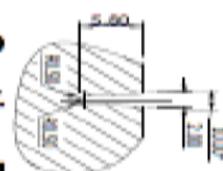
5.5mm Groove - 17.62%
Total Grooves - 22.35%

Rim - 7.0"
Class - 8.0"

17" - 205/45R17



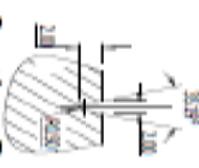
Section A:A
SCALE 2:1



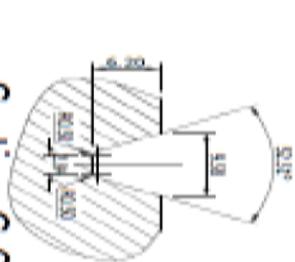
Section B:B
SCALE 2:1



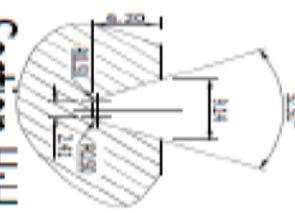
Section C:C
SCALE 2:1



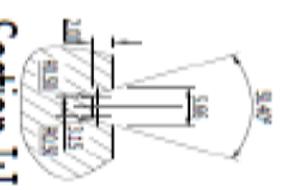
Section D:D
SCALE 2:1



Section G:G
SCALE 2:1



Section H:H
SCALE 2:1

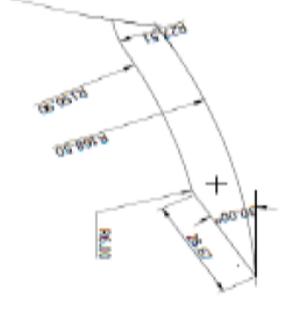
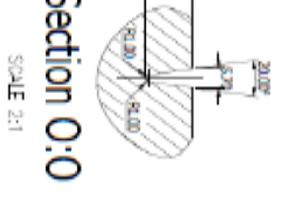
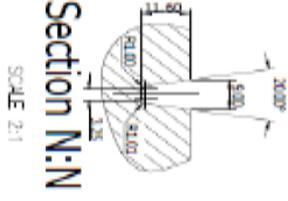
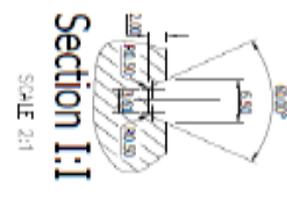
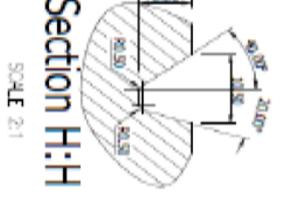
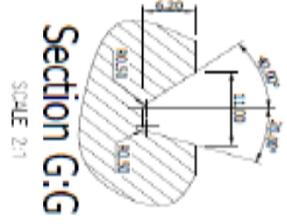
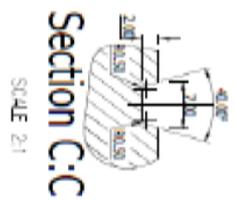
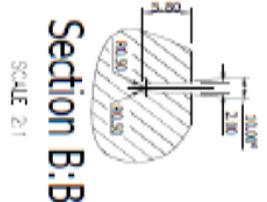
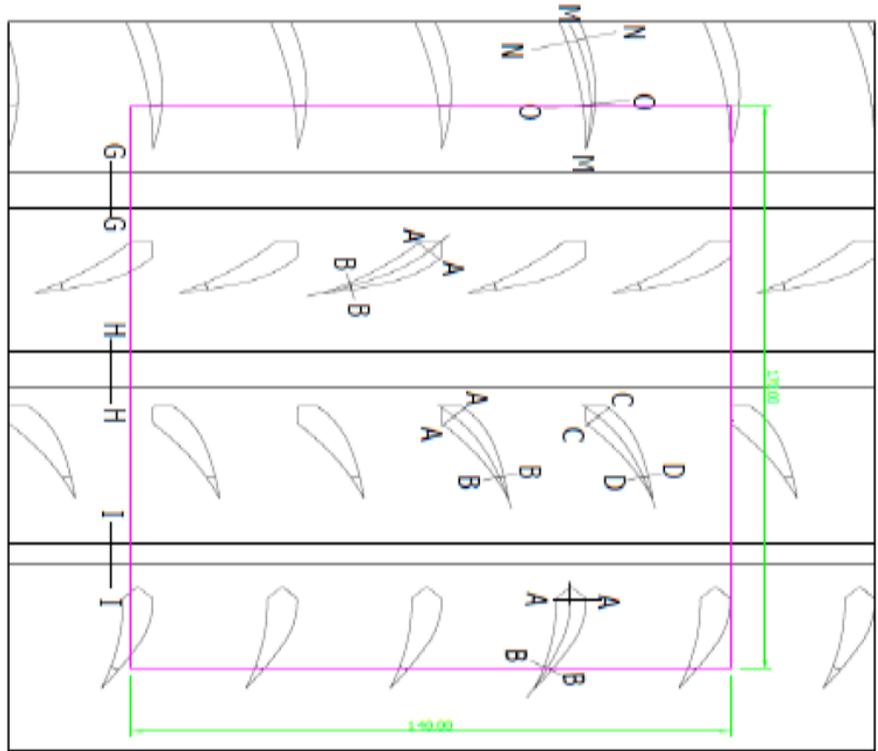


Section I:I
SCALE 2:1

5.5m Groove - 17.78%
Total Grooves - 22.50%

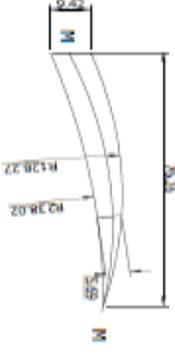
Rim - 7.0"
Class - 8.0"

18" - 225/40-18

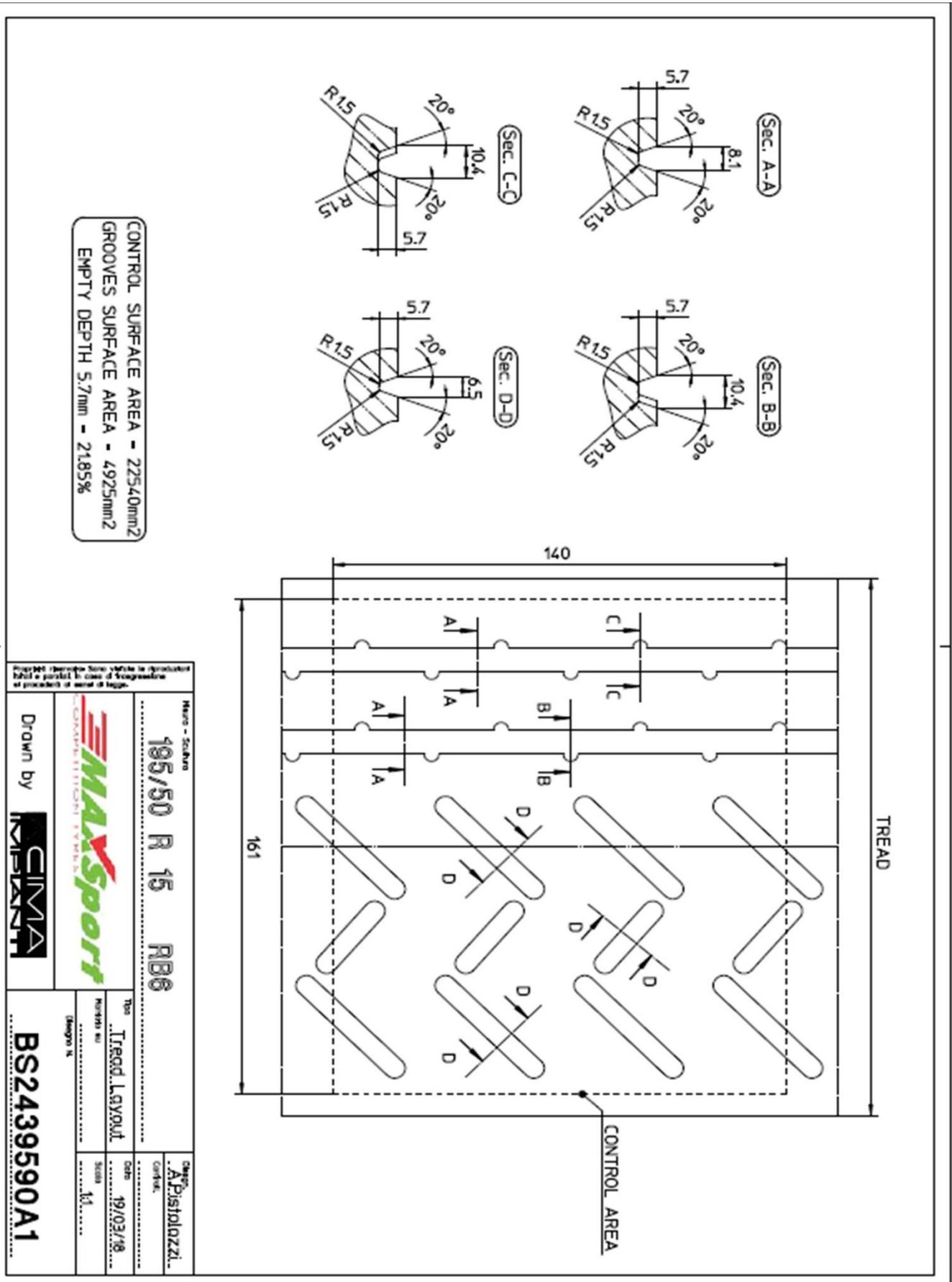


5.5m Groove - 18.35%
Total Grooves - 23.23%

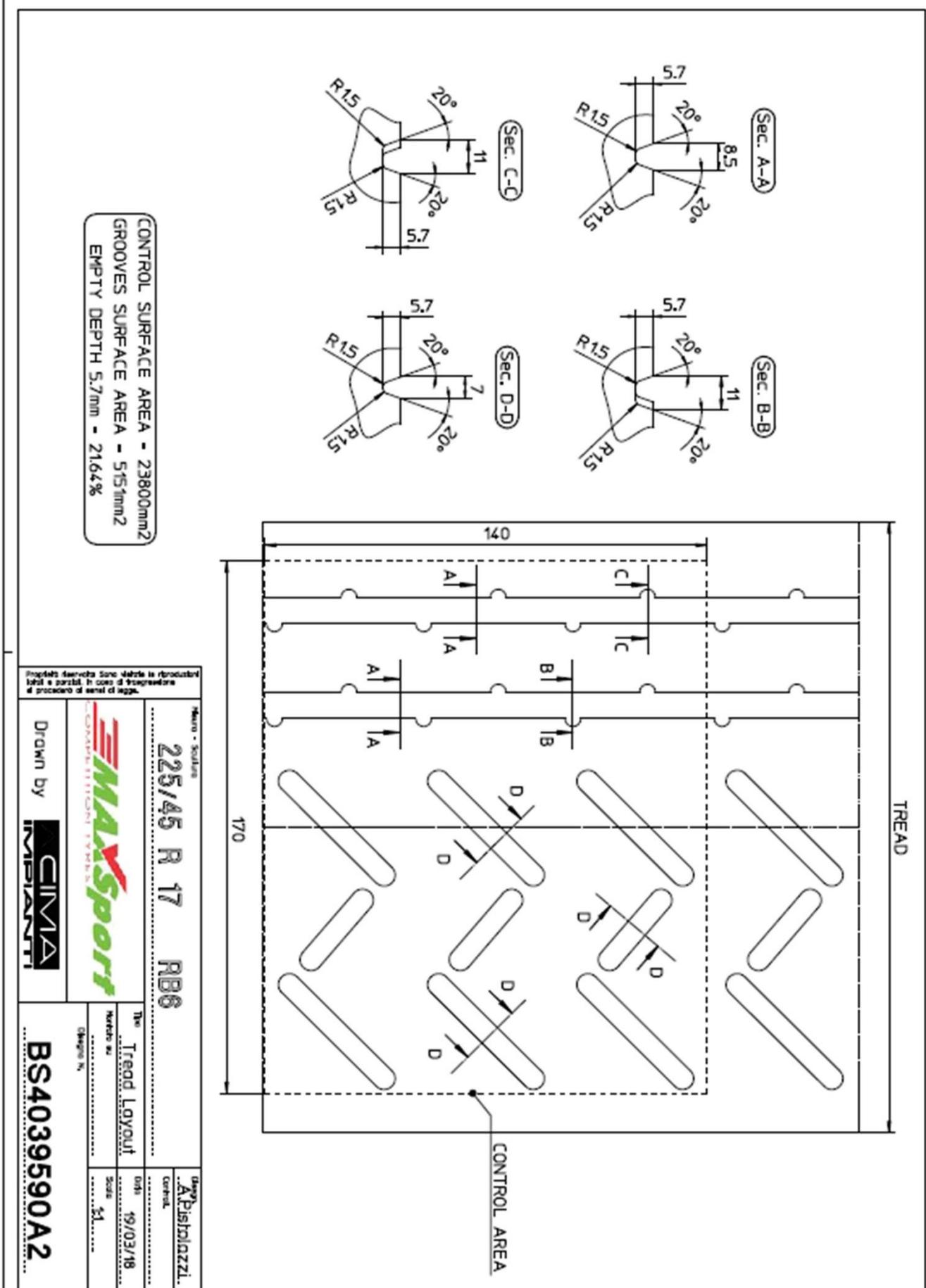
Rim - 8.0"
Class - 9.0"



15" – 195 / 50 – R15

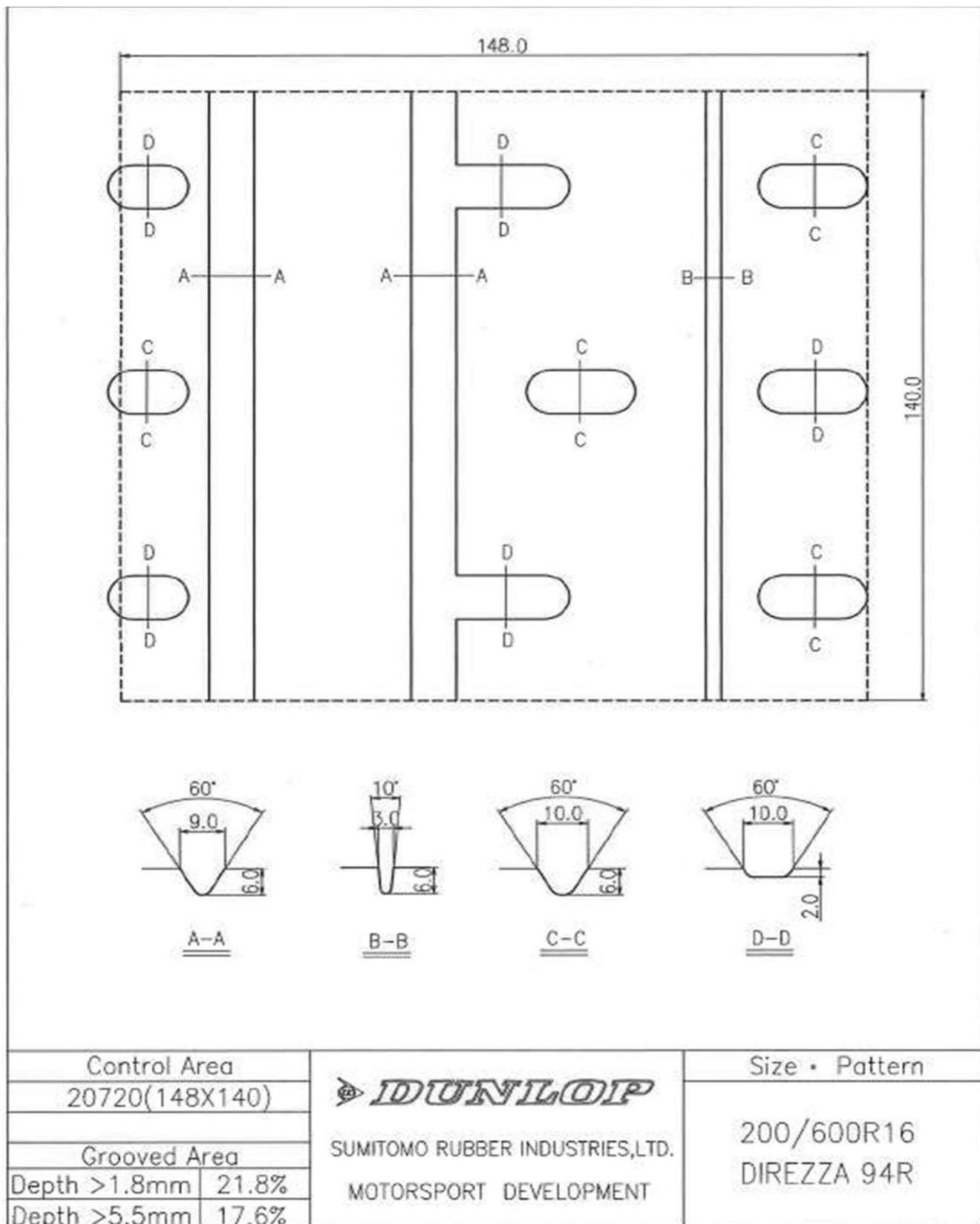


17" – 224 / 45 – R17



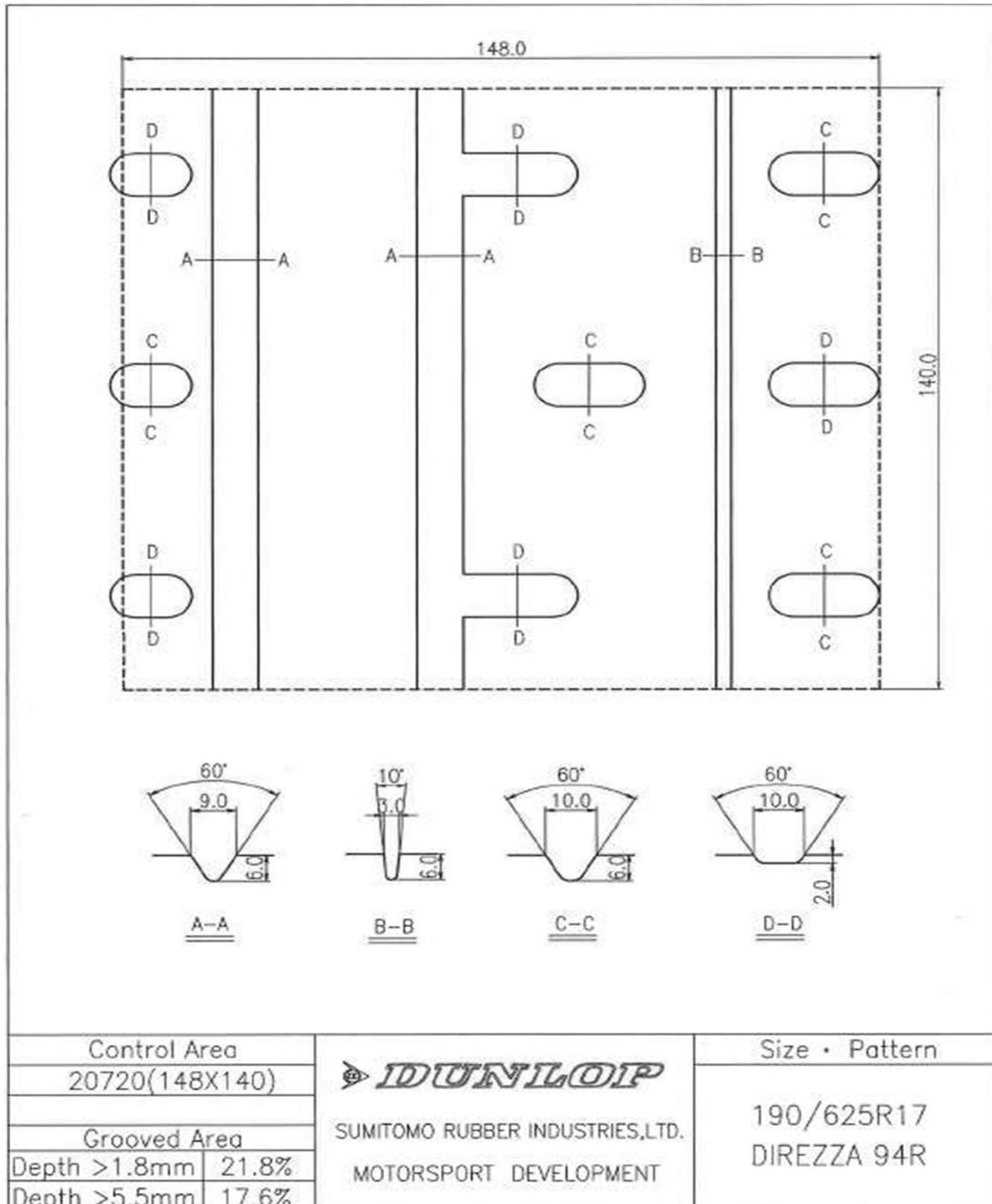


16" – 200 / 600 – R16



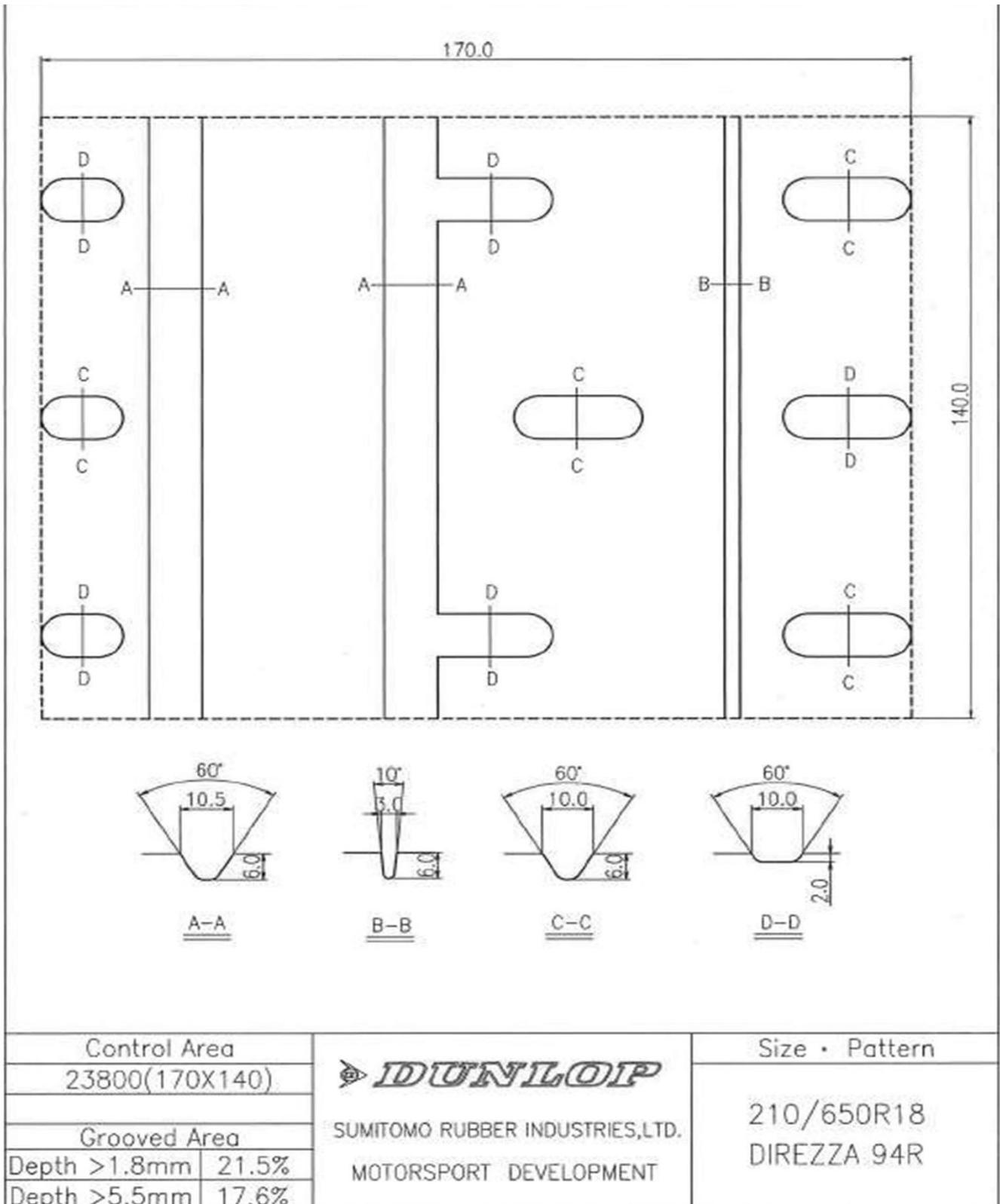


17" – 190/ 625 – R17

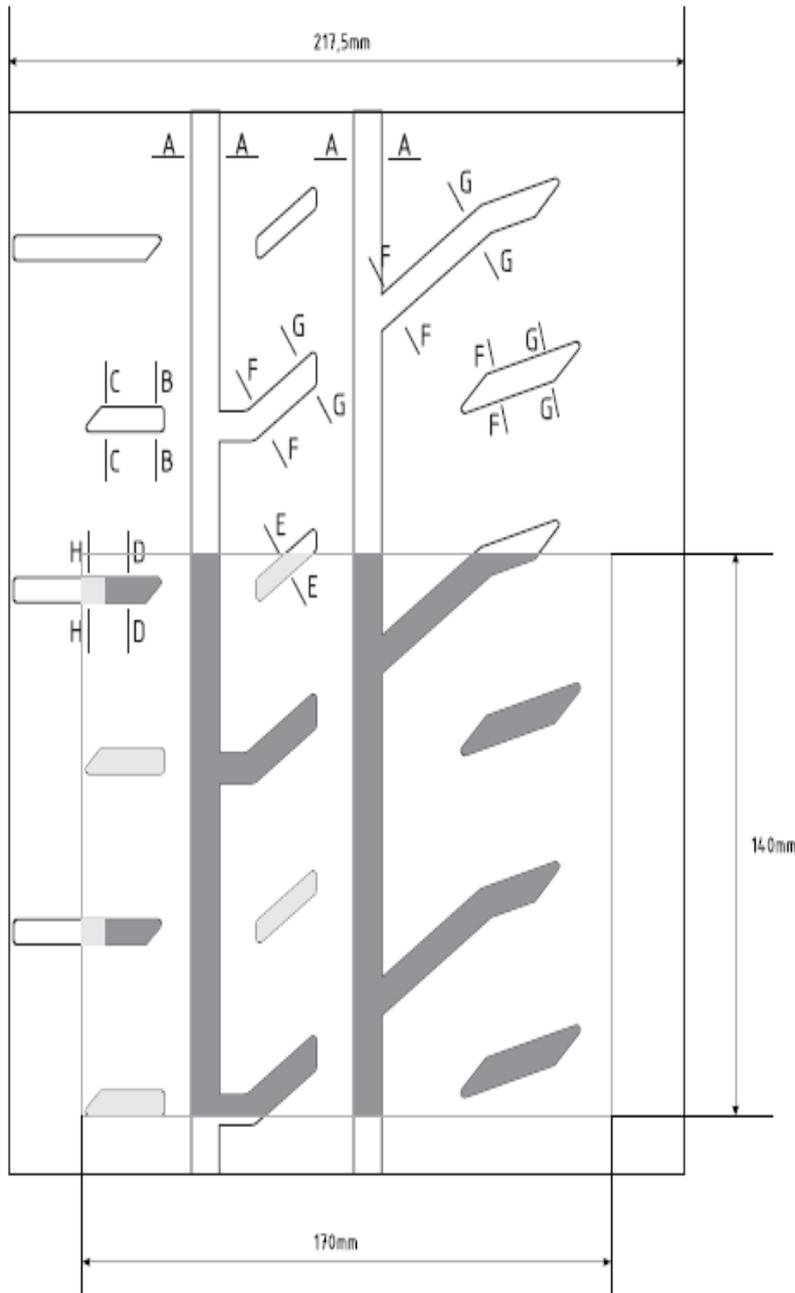




18" – 210/ 650 – R18



18" – 20 / 65 – R18 R-GT



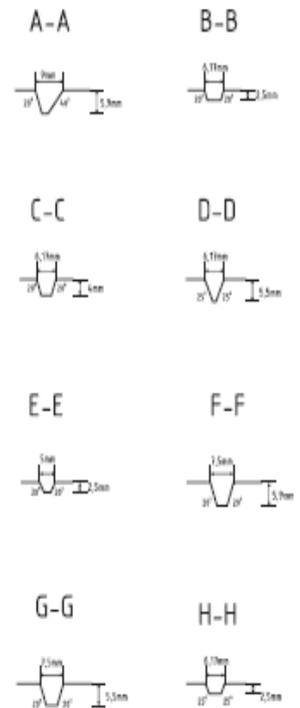
Name: EXTREME VRC

Size: 20/65-18

Width of the tyre/rim assembly: 224mm (8,8")

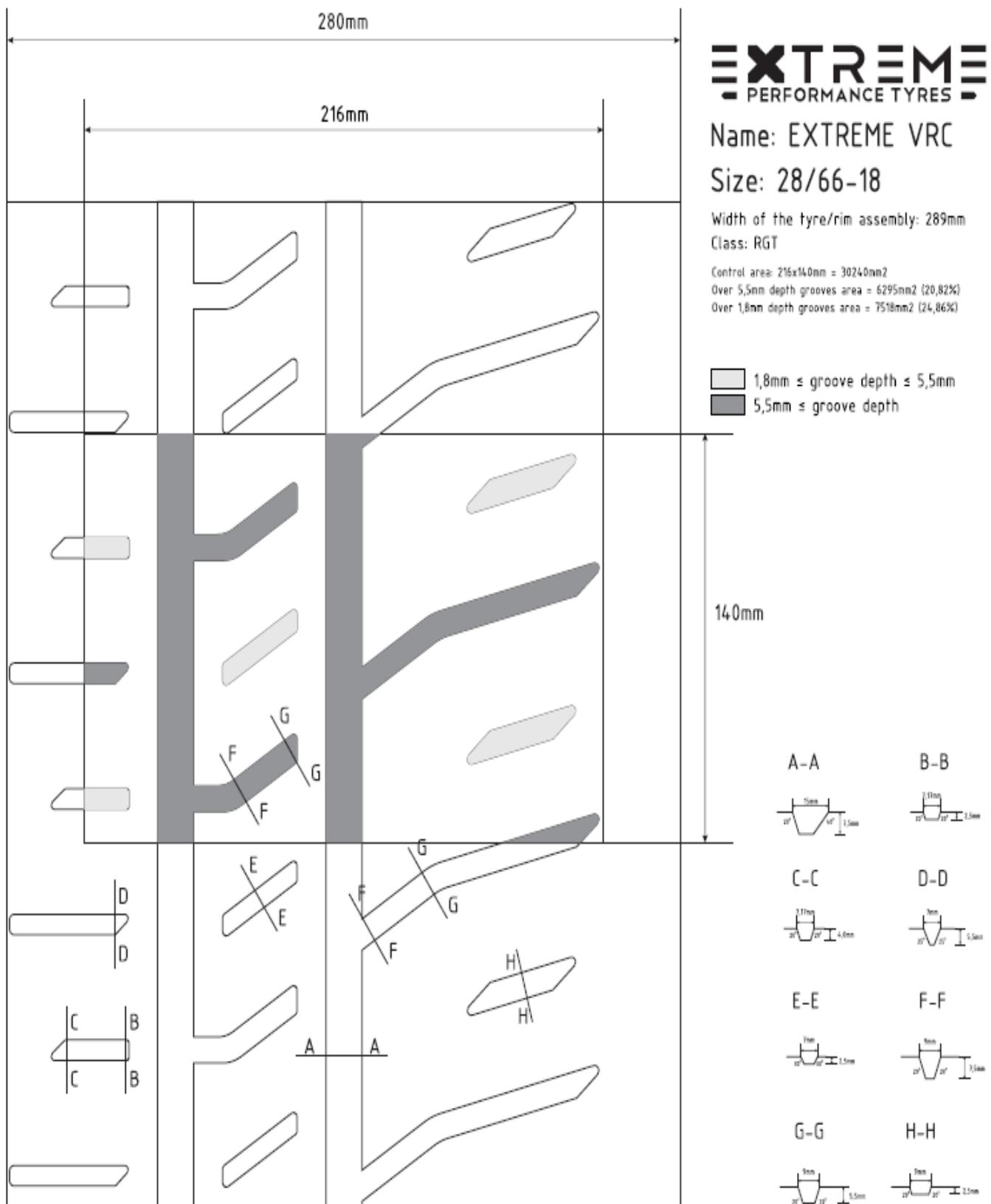
Control area: 170x140mm = 23800mm²
 Over 5,5mm depth grooves area = 4550mm² (19,12%)
 Over 1,8mm depth grooves area = 5118mm² (21,50%)

□ 1,8mm ≤ groove depth ≤ 5,5mm
 ■ 5,5mm ≤ groove depth



Scale: 1:1

18" – 28 / 66 – R18 R-GT



Scale: 1:1

ATUALIZAÇÕES

Art. / Data	Estado	Art. / Data	Estado	Art. / Data	Estado
Anexo IV / 07.01	Atualizado	1.1 / 15.01	Atualizado	7 / 15.01	Atualizado
4.3 / 22.01	Atualizado	4.6 / 08.06	Atualizado	Anexo IV / 17.09	Atualizado
Anexo V / 17.09	Atualizado				

Anexo IV	ANEXO IV PNEUS DE ASFALTO SEGUNDO LISTA CPR 2020 AVON TYRES
Art. 4.3	<p>4.3 - Para asfalto - é proibido o uso de pneus <i>slick</i> conforme Art. 13.3 das PER. (Anexo IV) e cujo desenho do piso é apresentado no (Anexo V) 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.</p> <p>É proibido utilizar qualquer dispositivo para aquecer os pneus depois de montados nas suas jantes.</p> <p>É proibido alterar o desenho original do piso quer seja por corte ou recorte (consultar Anexo IV).</p>
Art. 4.6	<p>4.6 - Marcação / Limite a utilizar</p> <p>- Todas as viaturas dos concorrentes que disputem provas do CPR (Terra ou Asfalto), independentemente de estarem ou não inscritos no mesmo, poderão utilizar até 12 pneus por prova, os quais serão objeto de verificação e marcação.</p>