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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 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.

CATEGORIAS			GRUPOS/CLASSES	REGULAMENTOS	PESO	CAMPEONATOS					+
FIA	CPR	PROMO START CMCR/CAR	VIATURAS	ARTIGO/ANEXO/ANO	MINIMO/KG	CPR	PROMO	START	CMCR	CAR	PROVA EXTRA
RALLY2	RC2	X5-16	GRUPO RALLY2	Grupo Rally2 conforme Art.261 Anexo J 2021	1230	☑			☑	☑	☑
		X5-16	S2000 - RALLY 2.0 Atmosférico	Viaturas Super 2000 conforme Art.254 A Anexo J 2013	1200	☑			☑	☑	☑
	RC2K	X5-16	GRUPO RALLY2 kit (VR4K)	Viaturas equipadas com R4 Kit conforme Art.260 E Anexo J 2021	1230	☑			☑	☑	☑
	RC2N	P3/X3	GRUPO N NR4 + 2000cc	Viaturas Grupo N conforme Art.254 Anexo J 2019	FH	☑	☑		☑	☑	☑
-	RC2N	P3/X3	GRUPO N VR4	Viaturas Grupo N conforme Art.260 Anexo J	1300	☑	☑		☑	☑	☑
R-GT	R-GT	X5-16	R-GT FIA	Viaturas Grupo RGT conforme Art.256 Anexo J 2019/2021	PT RGT (FIA)**	☑			☑	☑	☑
	R-GTN	X5-16	R-GT FPAK	REG. FPAK (CPR-GT)+FH	Art.2 do Reg. Técnico CPRGT	☑			☑	☑	☑
RALLY3	RC3	X5-16	RALLY3 Atmosférico + 1390cc até 2000cc e Turbo + 927cc até 1620cc	Viaturas Grupo Rally3 Homologação a partir 01/01/2021 conforme Art.260 Anexo J 2021	1210	☑			☑	☑	☑
RALLY4	RC4	X5-16	RALLY4 Turbo + 927 até 1333cc	Viaturas Grupo Rally4 Homologação a partir 01/01/2019 conforme Art.260 Anexo J 2021	1080	☑			☑	☑	☑
		P1/P2	RALLY4 Atmosférico + 1390cc até 2000cc	Viaturas Grupo R2 Homologação antes de 31/12/2018 conforme Art.260 Anexo J 2018	1080	☑	☑	☑	☑	☑	☑
		P2	R3 Atmosférico + 1600cc até 2000cc e Turbo + 1067cc até 1333cc	Viaturas Grupo R Homologação antes de 31/12/2019 conforme Art.260 Anexo J 2019	1080	☑	☑	☑	☑	☑	☑
		P2	R3 Turbo + 1620cc (nominal)	Viaturas Grupo R Homologação antes de 31/12/2019 conforme Art.260 D Anexo J 2019	1080	☑	☑	☑	☑	☑	☑
		P2	GRUPO A + 2000cc	Viaturas Grupo A conforme Art.255 Anexo J 2019	1080	☑	☑	☑	☑	☑	☑
RALLY5	RC5	P2	RALLY5 Atmosférico + 1600cc e Turbo + 1067cc	Viaturas Grupo R1 Homologação antes de 31/12/2018 conforme Art.260 Anexo J	1030/1080	☑	☑	☑	☑	☑	☑
-	RC5N	P2/3	KIA PICANTO		FH	☑	☑	☑	☑	☑	☑
E-RALLY	E-RALLY	X5-16	VIATURAS DE PROPULSÃO - ENERGIAS ALTERNATIVAS	FIA	FH	☑	☑	☑	☑	☑	☑
-	-	P1 - 2 RM até 1600cc	Classe 1 - até 1400cc Classe 2 - de 1401cc a 1600cc	Art. 2.2.1 Reg. Técnico Ralis Promo/Start/Regionais			☑	☑	☑	☑	☑
-	-	P2 - 2 RM + 1600cc	Classe 3 - de 1601cc a 2000cc Classe 4 - de 2001cc a 3000cc Classe 5 - mais de 3001cc a 3500cc	Art. 2.1.1 Reg. Técnico Ralis Promo/Start/Regionais			☑	☑	☑	☑	☑
-	-	P3 - 4 RM	Classe 6 - até 2500cc Classe 7 - mais de 2501cc a 3500cc	Art. 2.1.1 Reg. Técnico Ralis Promo/Start/Regionais			☑		☑	☑	☑
-	-	X1 - 2 RM até 1600cc	Classe 8 - até 1400cc Classe 9 - de 1401cc a 1600cc	Art. 12 Reg. Técnico Ralis Promo/Start/Regionais			☑	☑	☑	☑	☑
-	-	X2 - 2 RM + 1600cc	Classe 10 - de 1601cc a 2000cc Classe 11 - de 2001cc a 3000cc Classe 12 - mais de 3001cc a 3500cc	Art. 12 Reg. Técnico Ralis Promo/Start/Regionais			☑	☑	☑	☑	☑
-	-	X3 - 4 RM	Classe 13 - até 2500cc Classe 14 - mais de 2501cc a 3500cc	Art. 12 Reg. Técnico Ralis Promo/Start/Regionais			☑		☑	☑	☑
-	-	X4 - Diesel	Classe 15 - Todas as motorizações diesel	Art. 12 Reg. Técnico Ralis Promo/Start/Regionais			☑	☑	☑	☑	☑
-	-	X5	Classe 16 - Todas as viaturas com homologação FIA/FPAK válida (VCHF). Inclui RGT/ Rally 4, assim como viaturas WRC com FH FIA atual	Art. 12 Reg. Técnico Ralis Promo/Start/Regionais			☑		☑	☑	☑
-	-	X6	GRUPO PROTO/N5/N3	Viaturas com homologação FPAK e de outras ASN			☑		☑	☑	☑
-	-	SC	Classe 17 - até 2000cc								☑

Tabela de Viaturas FPAK 2022 - ANEXO A

\*\* conforme passaporte técnico RGT (FIA)

## 1.2 - Quadro de viaturas admitidas para o WRC/ERC/ERT 2022

CLASSE	GRUPO	WRC	ERC/ERT
RC1	Rally1	☑	
RC2	Rally2	☑	☑
	Rally2 Kit	☑	☑
	NR4 + 2.0		☑
	S2000 – Rally		☑
	R4		☑
RGT	RGT	☑	☑
RC3	Rally3	☑	☑
RC4	Rally4	☑	☑
	R2	☑	☑
	R3	☑	☑
	Grupo A até 2.0		☑
RC5	Rally5	☑	☑
	R1	☑	☑

☑ = Admitidos

[https://www.fia.com/sites/default/files/fia\\_rally\\_car\\_pyramid\\_brochure - february 2021.pdf](https://www.fia.com/sites/default/files/fia_rally_car_pyramid_brochure_-_february_2021.pdf)

### 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 terá de ser retirada antes de efetuar a pesagem.

**2.2 - O peso mínimo da viatura nas condições do Art. 255-4.1; 260-201.3 & 4 & 5; 260-201.3 & 4; 260-201.4 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 cm<sup>3</sup>, (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, Rali Terras D'aboboreira, Vodafone Rali de Portugal, Rali Vinho da Madeira.**

b) Para o ano de 2022 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

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**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. 13.7.4 das PER.

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

Sendo o desenho do piso apresentado no **(Anexo IV)** abaixo.

As listas dos pneus homologados podem sofrer alterações e/ou atualizações.

Todos os pneus devem estar em conformidade com o Anexo IV 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 Pratic" Shakedown e Qualifying** das provas em piso de terra ou asfalto, os pneus utilizados não serão objeto de marcação.

- Nas Super Especiais das provas em piso de terra, os pneus utilizados não serão objeto de marcação.

Assim recomenda-se prever uma ZAR - zona assistência remota para troca de pneus se aplicável.

- 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 efetuado à saída do **PA**, num **Reagrupamento** ou no final de qualquer uma das **PEC** que compõem o Rali.

a) **CPR - nas provas não internacionais, os pneus são marcados. Serão limitados a um máximo de 10 pneus por prova, novos ou usados.**

b) **CPR2RM - nas provas não internacionais, os pneus são marcados. Serão limitados a um máximo de 8 pneus por prova, novos ou usados.**

**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 objeto 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

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**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.

[https://www.fpak.pt/sites/default/files/ficheiros/2019-06/28704-camaras\\_de\\_filmar.pdf](https://www.fpak.pt/sites/default/files/ficheiros/2019-06/28704-camaras_de_filmar.pdf)

## 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 A

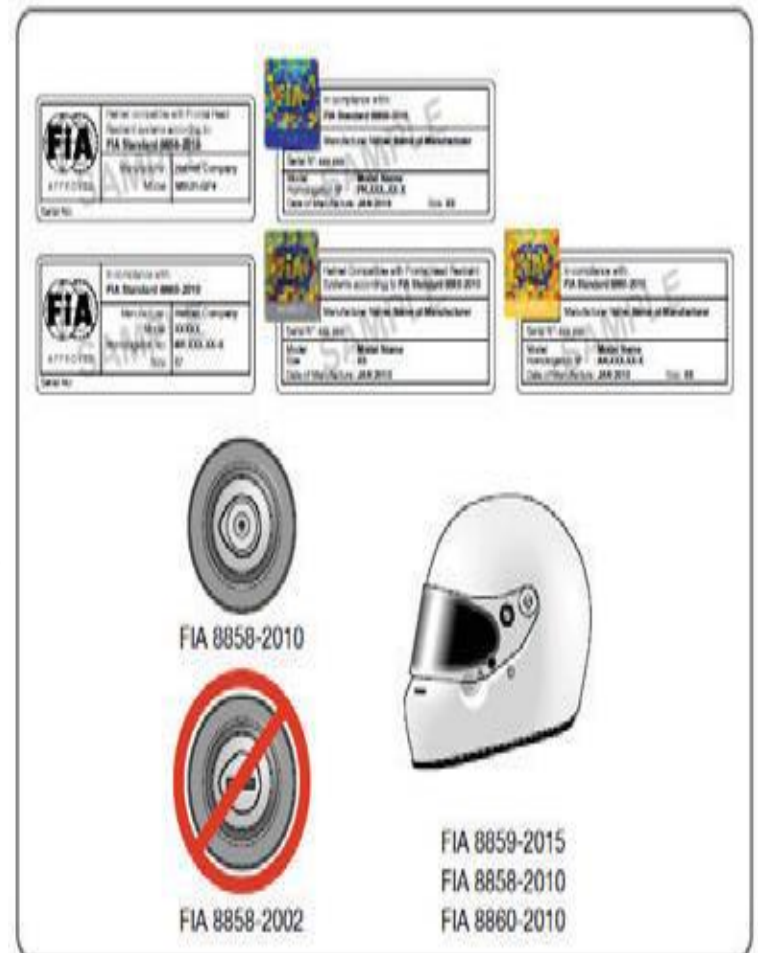
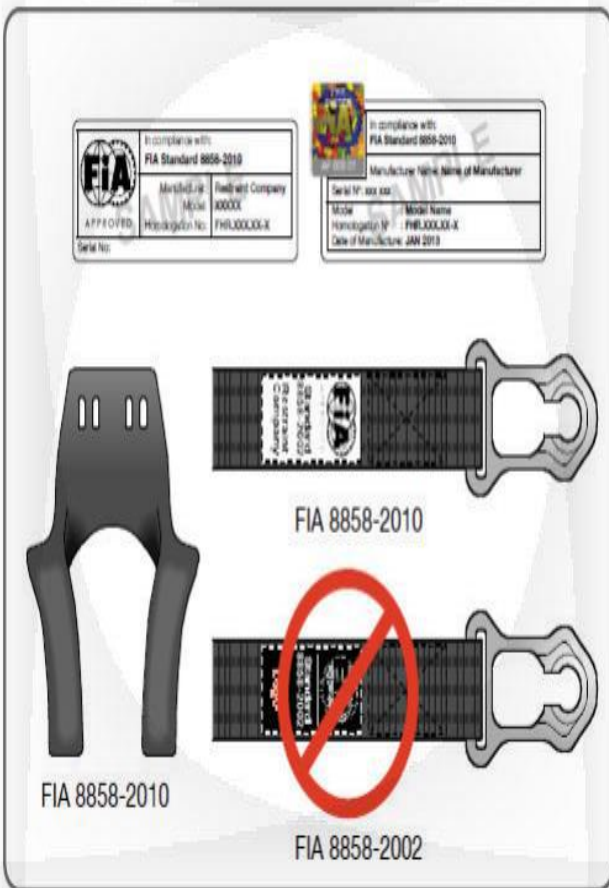
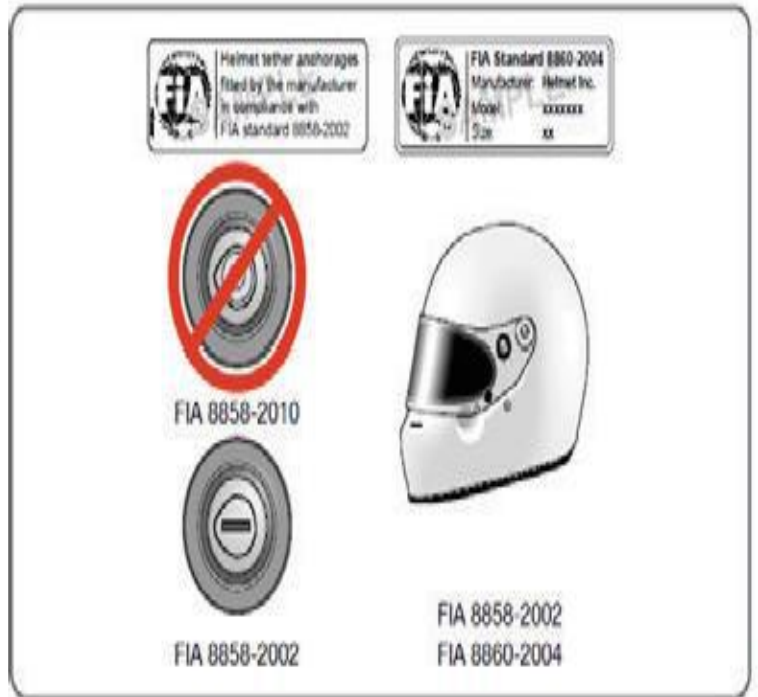
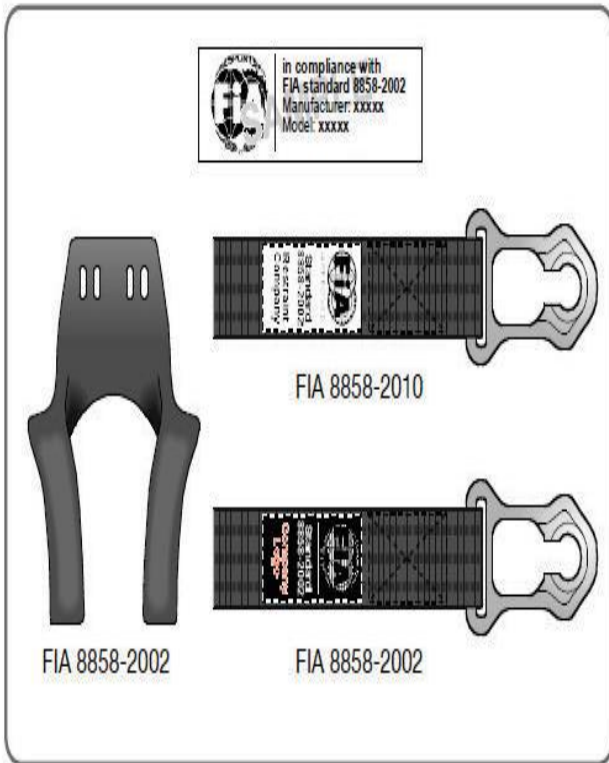
CATEGORIAS			GRUPOS/CLASSES	REGULAMENTOS	PESO	CAMPEONATOS					+
FIA	CPR	PROMO START CMCR/CAR	VIATURAS	ARTIGO/ANEXO/ANO	MINIMO/KG	CPR	PROMO	START	CMCR	CAR	PROVA EXTRA
RALLY2	RC2	X5-16	GRUPO RALLY2	Grupo Rally2 conforme Art.261 Anexo J 2021	1230	☑			☑	☑	☑
		X5-16	S2000 – RALLY 2.0 Atmosférico	Viaturas Super 2000 conforme Art.254 A Anexo J 2013	1200	☑			☑	☑	☑
	RC2K	X5-16	GRUPO RALLY2 kit (VR4K)	Viaturas equipadas com R4 Kit conforme Art.260 E Anexo J 2021	1230	☑			☑	☑	☑
	RC2N	P3/X3	GRUPO N NR4 + 2000cc	Viaturas Grupo N conforme Art.254 Anexo J 2019	FH	☑	☑		☑	☑	☑
-	RC2N	P3/X3	GRUPO N VR4	Viaturas Grupo N conforme Art.260 Anexo J	1300	☑	☑		☑	☑	☑
R-GT	R-GT	X5-16	R-GT FIA	Viaturas Grupo RGT conforme Art.256 Anexo J 2019/2021	PT RGT (FIA)**	☑			☑	☑	☑
	R- GTN	X5-16	R-GT FPAK	REG. FPAK (CPR-GT) + FH	Art.2 do Reg. Técnico CPRGT	☑			☑	☑	☑
RALLY3	RC3	X5-16	RALLY3 Atmosférico + 1390cc até 2000cc e Turbo + 927cc até 1620cc	Viaturas Grupo Rally3 Homologação a partir 01/01/2021 conforme Art.260 Anexo J 2021	1210	☑			☑	☑	☑
RALLY4	RC4	X5-16	RALLY4 Turbo + 927 até 1333cc	Viaturas Grupo Rally4 Homologação a partir 01/01/2019 conforme Art.260 Anexo J 2021	1080	☑			☑	☑	☑
		P1/P2	RALLY4 Atmosférico + 1390cc até 2000cc	Viaturas Grupo R2 Homologação antes de 31/12/2018 conforme Art.260 Anexo J 2018	1080	☑	☑	☑	☑	☑	☑
		P2	R3 Atmosférico + 1600cc até 2000cc E Turbo + 1067cc até 1333cc	Viaturas Grupo R Homologação antes de 31/12/2019 conforme Art.260 Anexo J 2019	1080	☑	☑	☑	☑	☑	☑
		P2	R3 Turbo + 1620cc (nominal)	Viaturas Grupo R Homologação antes de 31/12/2019 conforme Art.260 D Anexo J 2019	1080	☑	☑	☑	☑	☑	☑
		P2	GRUPO A + 2000cc	Viaturas Grupo A conforme Art.255 Anexo J 2019	1080	☑	☑	☑	☑	☑	☑
RALLY5	RC5	P2	RALLY5 Atmosférico + 1600cc e Turbo + 1067cc	Viaturas Grupo R1 conforme Art.260 Anexo J	1030/1080	☑	☑	☑	☑	☑	☑
-	RC5N	P2/3	KIA PICANTO	FIA	FH	☑	☑	☑	☑	☑	☑
E- RALLY	E- RALLY	X5-16	VIATURAS DE PROPULSÃO – ENERGIAS ALTERNATIVAS	FIA	FH	☑	☑	☑	☑	☑	☑

## ANEXO A

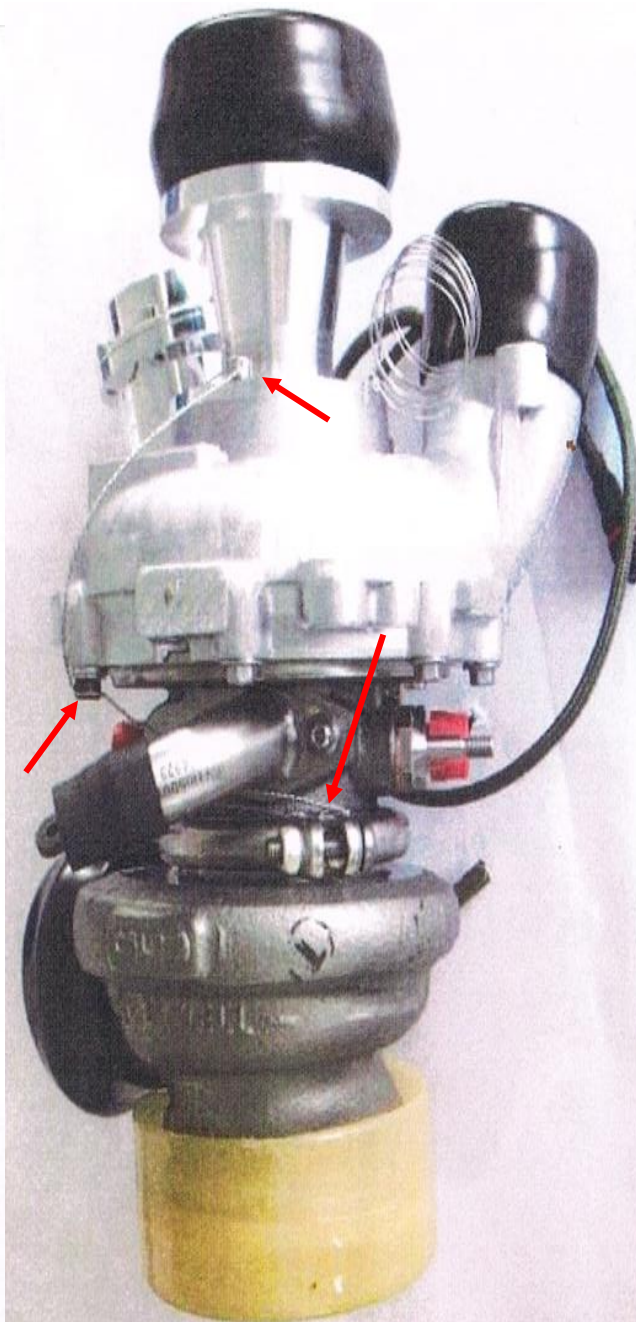
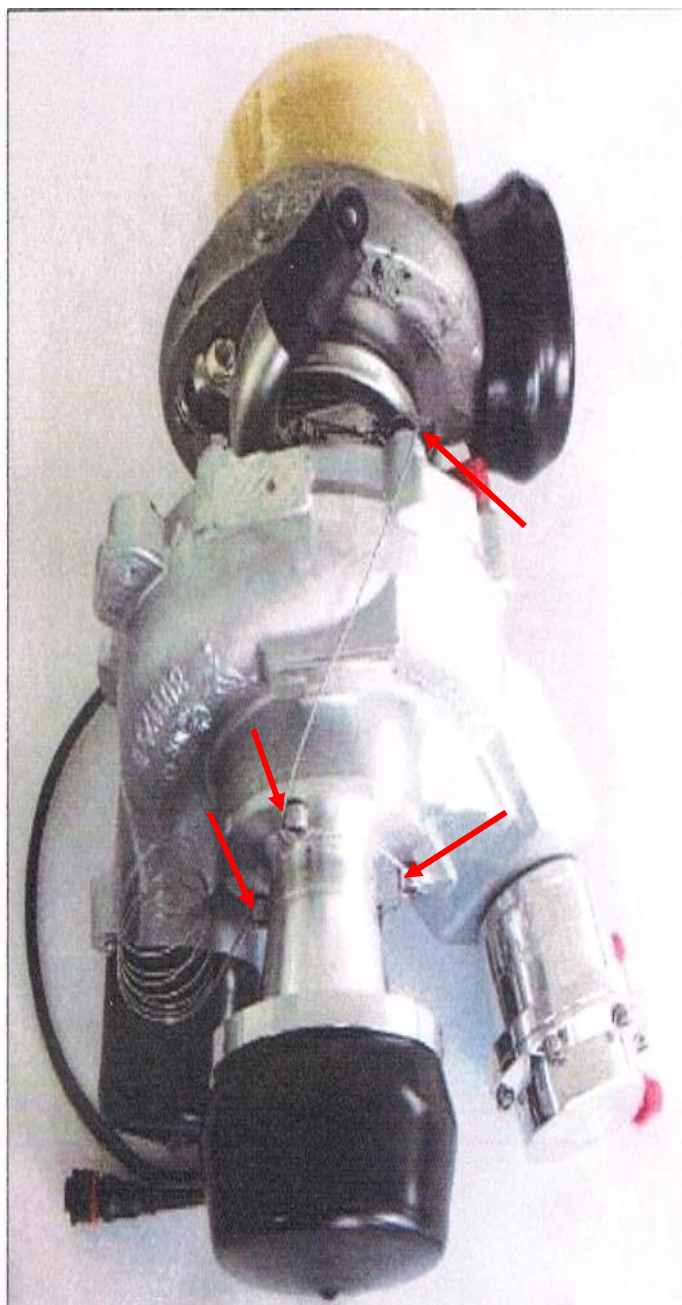
-	-	P1 - 2 RM até 1600cc	Classe 1 – até 1400cc Classe 2 – de 1401cc a 1600cc	Art. 2.2.1 Reg. Técnico Ralis Promo/Start/Regionais		✓	✓	✓	✓	✓
-	-	P2 - 2 RM + 1600cc	Classe 3 – de 1601cc a 2000cc Classe 4 – de 2001cc a 3000cc Classe 5 – mais de 3001cc a 3500cc	Art. 2.1.1 Reg. Técnico Ralis Promo/Start/Regionais		✓	✓	✓	✓	✓
-	-	P3 - 4 RM	Classe 6 – até 2500cc Classe 7 – mais de 2501cc a 3500cc	Art. 2.1.1 Reg. Técnico Ralis Promo/Start/Regionais		✓		✓	✓	✓
-	-	X1 - 2 RM até 1600cc	Classe 8 – até 1400cc Classe 9 – de 1401cc a 1600cc	Art. 12 Reg. Técnico Ralis Promo/Start/Regionais		✓	✓	✓	✓	✓
-	-	X2 - 2 RM + 1600cc	Classe 10 – de 1601cc a 2000cc Classe 11 – de 2001cc a 3000cc Classe 12 – mais de 3001cc a 3500cc	Art. 12 Reg. Técnico Ralis Promo/Start/Regionais		✓	✓	✓	✓	✓
-	-	X3 - 4 RM	Classe 13 – até 2500cc Classe 14 – mais de 2501cc a 3500cc	Art. 12 Reg. Técnico Ralis Promo/Start/Regionais		✓		✓	✓	✓
-	-	X4 - Diesel	Classe 15 – Todas as motorizações diesel	Art. 12 Reg. Técnico Ralis Promo/Start/Regionais		✓	✓	✓	✓	✓
-	-	X5	Classe 16 – Todas as viaturas com homologação FIA/FPAK válida (VCHF). Inclui RGT/ Rally 4, assim como viaturas WRC com FH FIA atual	Art. 12 Reg. Técnico Ralis Promo/Start/Regionais		✓		✓	✓	✓
-	-	X6	<b>Classe 17 até 3500cc</b>	<b>Grupo N5/N3/PROTO Viaturas com homologação FPAK e de outras ASN</b>		✓		✓	✓	✓
-	-	SC	Classe 18 – até 2000cc							✓

# ANEXO I

## COMPATIBILIDADE CAPACETES SISTEMA (HANS-FHR)



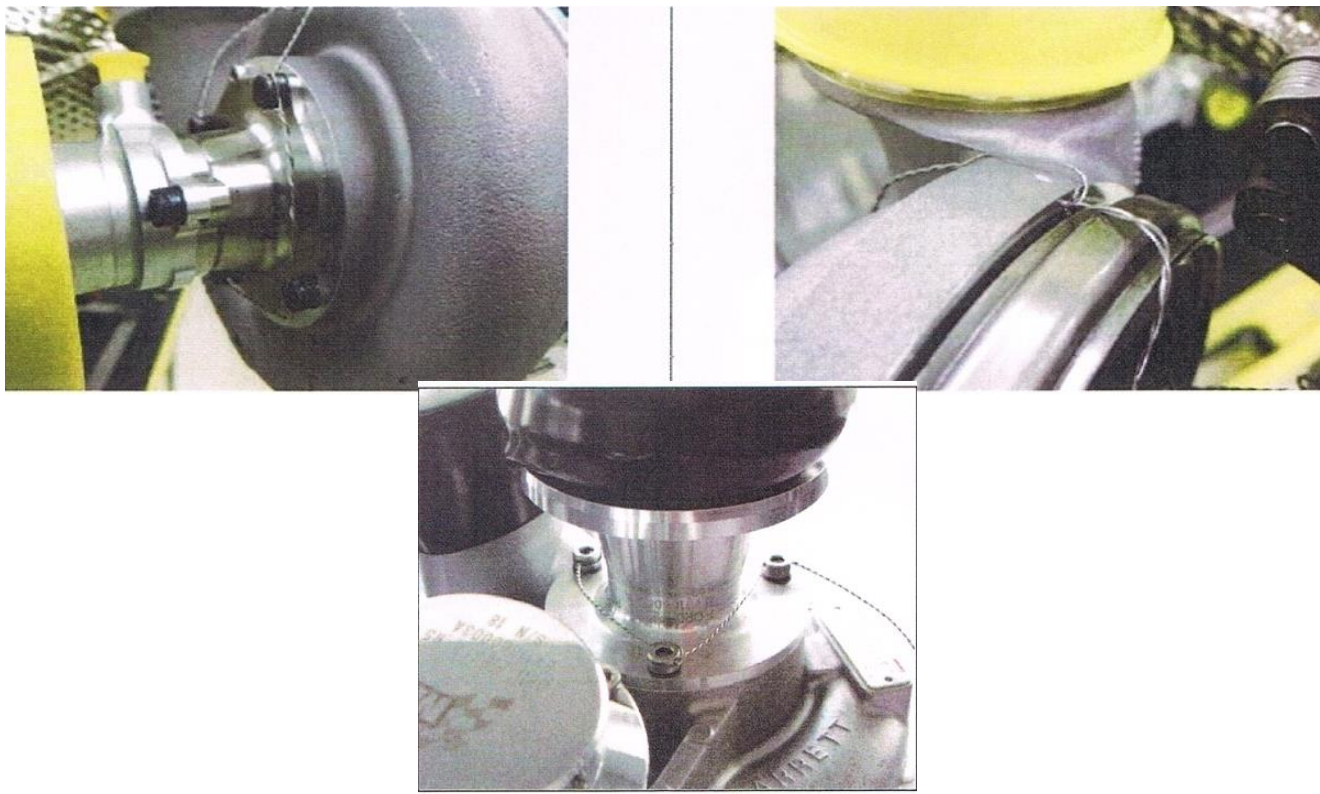
**ANEXO II**  
**SELAGEM DO TURBOCOMPRESSOR (TURBO)**



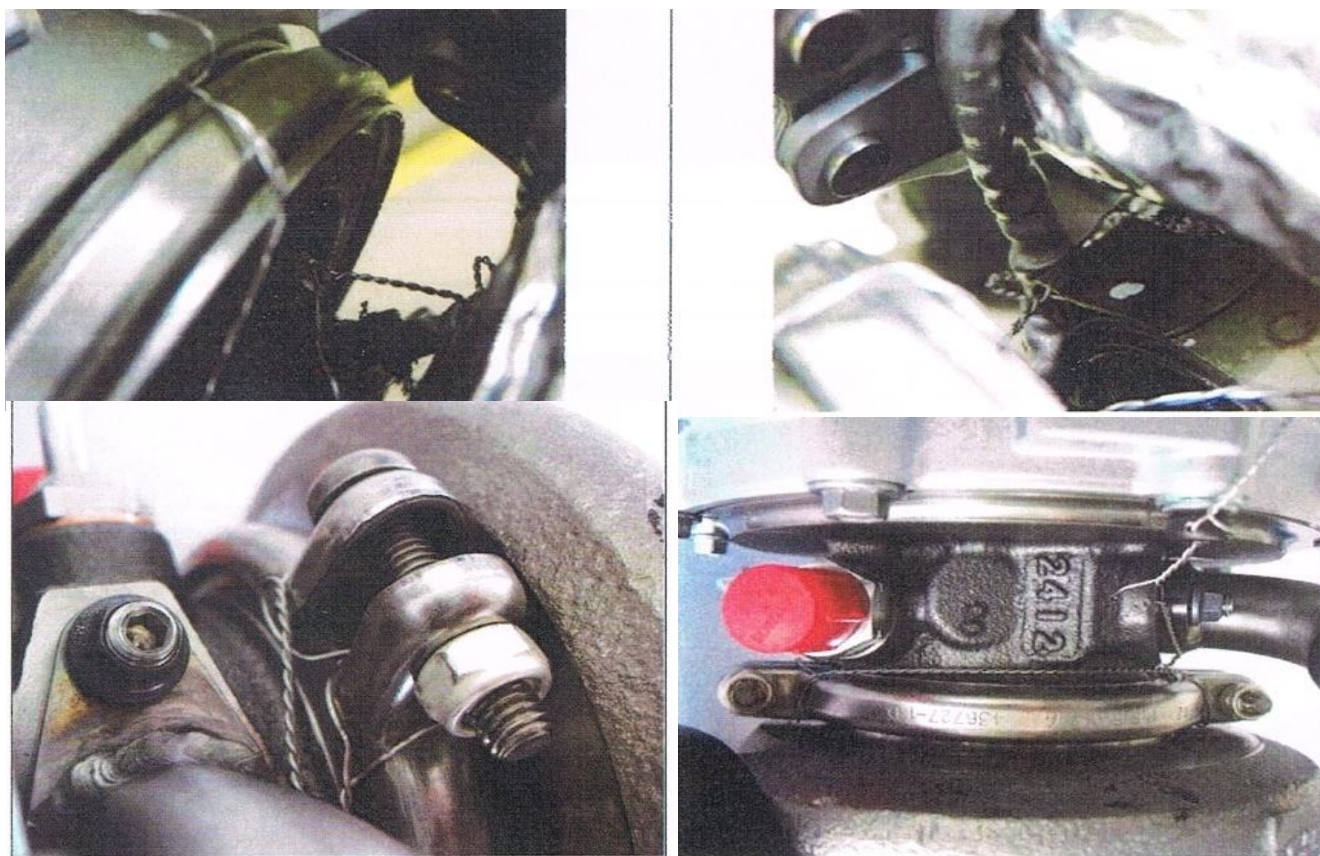


## **ZOOM DE PONTOS DE PASSAGEM DO FIO DE SELAGEM**

### **LADO DO COMPRESSOR**



### **LADO DA TURBINA**



## **ANEXO III**



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

<b>CONCORRENTE Nº:</b>  .....
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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

## DESENHOS DO PISO DOS PNEUS DE ASFALTO LISTA CPR 2022

# 18" - 20/65-18



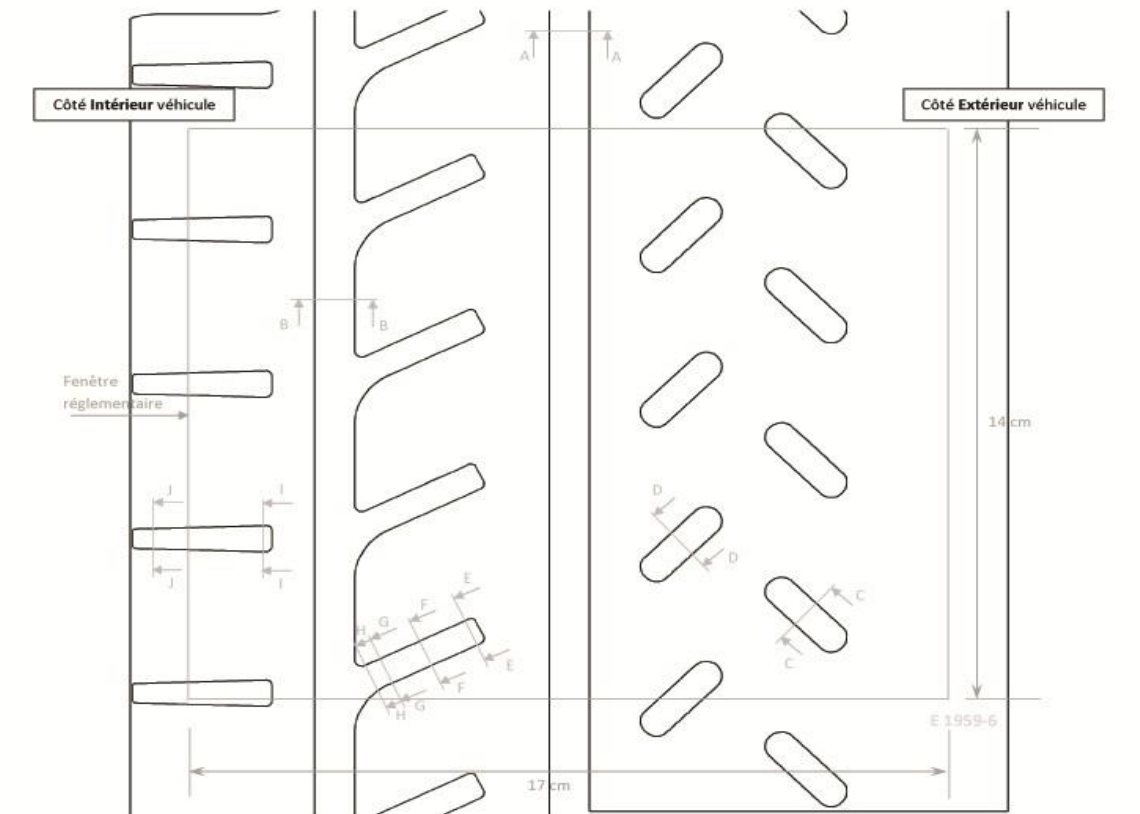
Domaine : Rallye Asphalte

Clermont-Ferrand le 05/12/2013

Dimension : 20 / 65 – 18

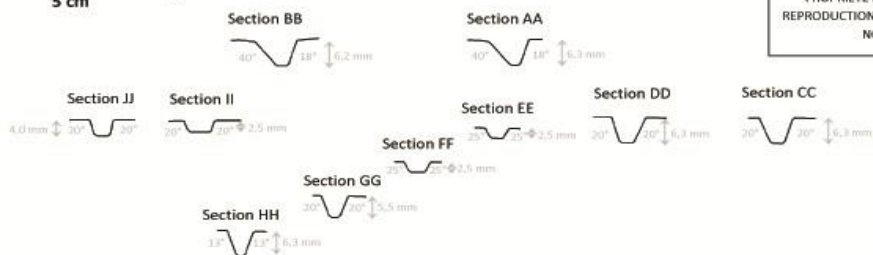
Plan de la sculpture : Pilot Sport R

Entaillement Surfamique dans fenêtre règlementaire : 21,51 %



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

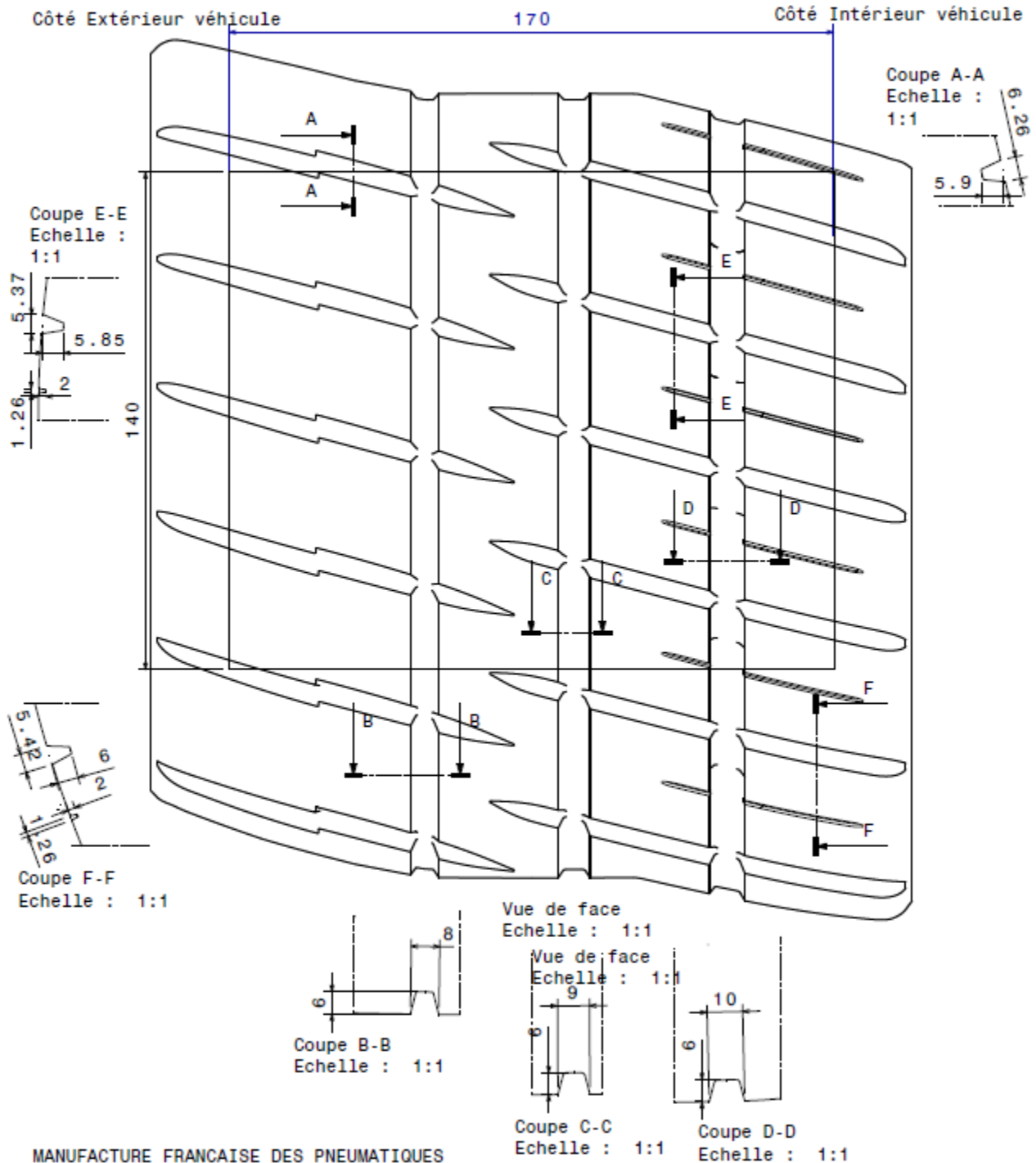
Plan de la sculpture : Pilot Sport A MW1

Entaillement Surfacique 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



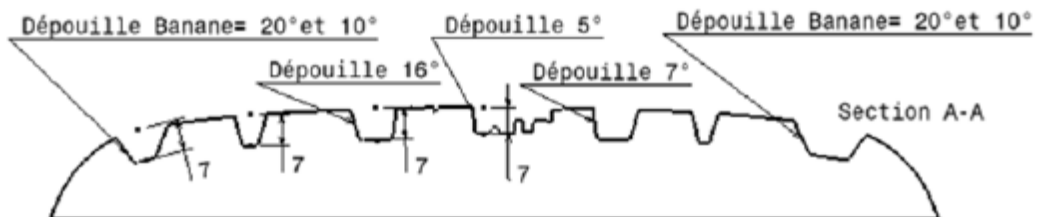
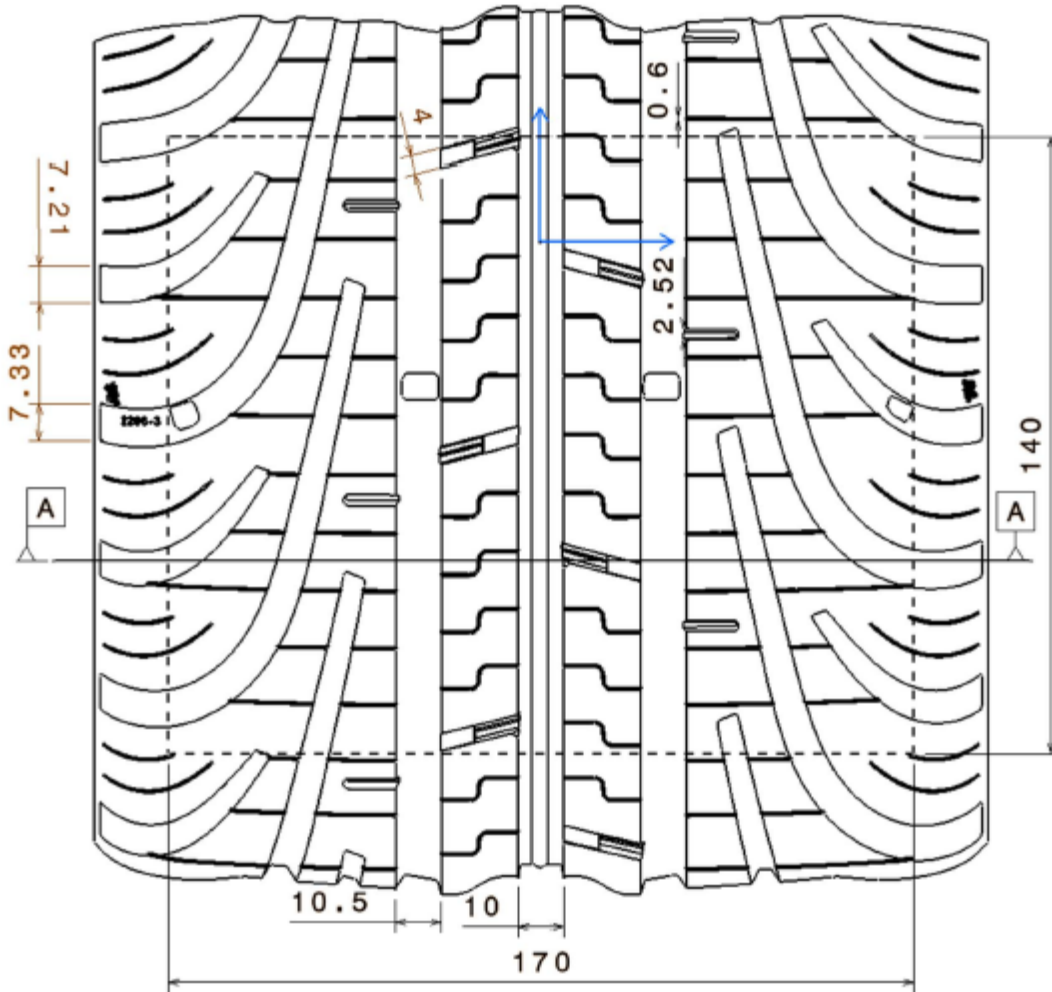
MANUFACTURE FRANCAISE DES PNEUMATIQUES  
MICHELIN CLERMONT-FERRAND  
PROPRIETE EXCLUSIVE DE NOTRE SOCIETE  
REPRODUCTION OU UTILISATION INTERDITE SANS  
NOTRE ACCORD ECRIT

# 18" - 18/65-18



Clermont-Ferrand le : 15/12/2016  
Domaine : Rallye 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

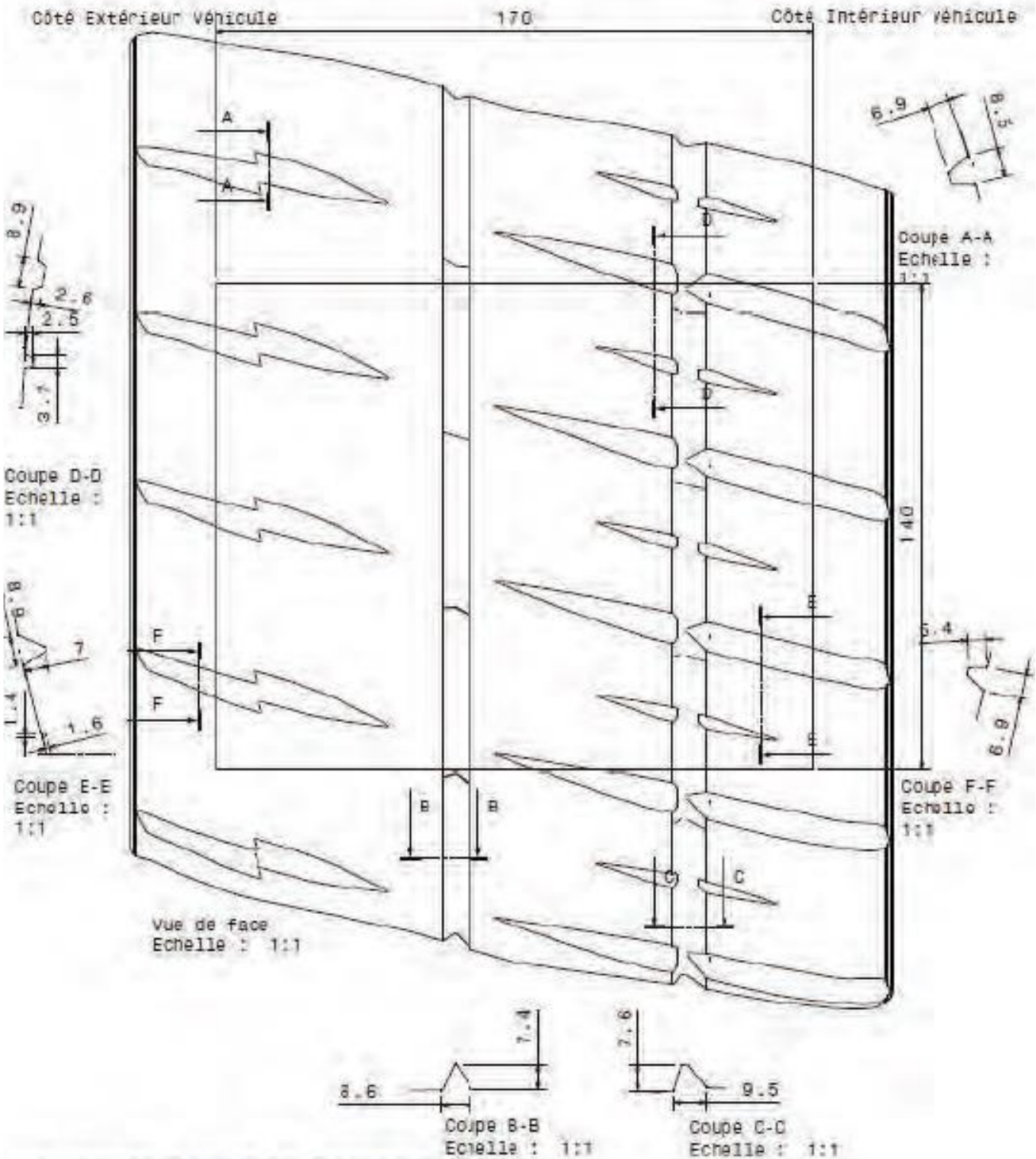


# 18" - 20/65-18

Domaine : Rallye Asphalte  
 Dimension : 20 / 65 - 18  
 Plan de la sculpture : Pilot Sport A  
 Entaillement surfacique dans fenetre  
 reglementaire : 21.74 %



Clermont-Ferrand le 05/08/2020



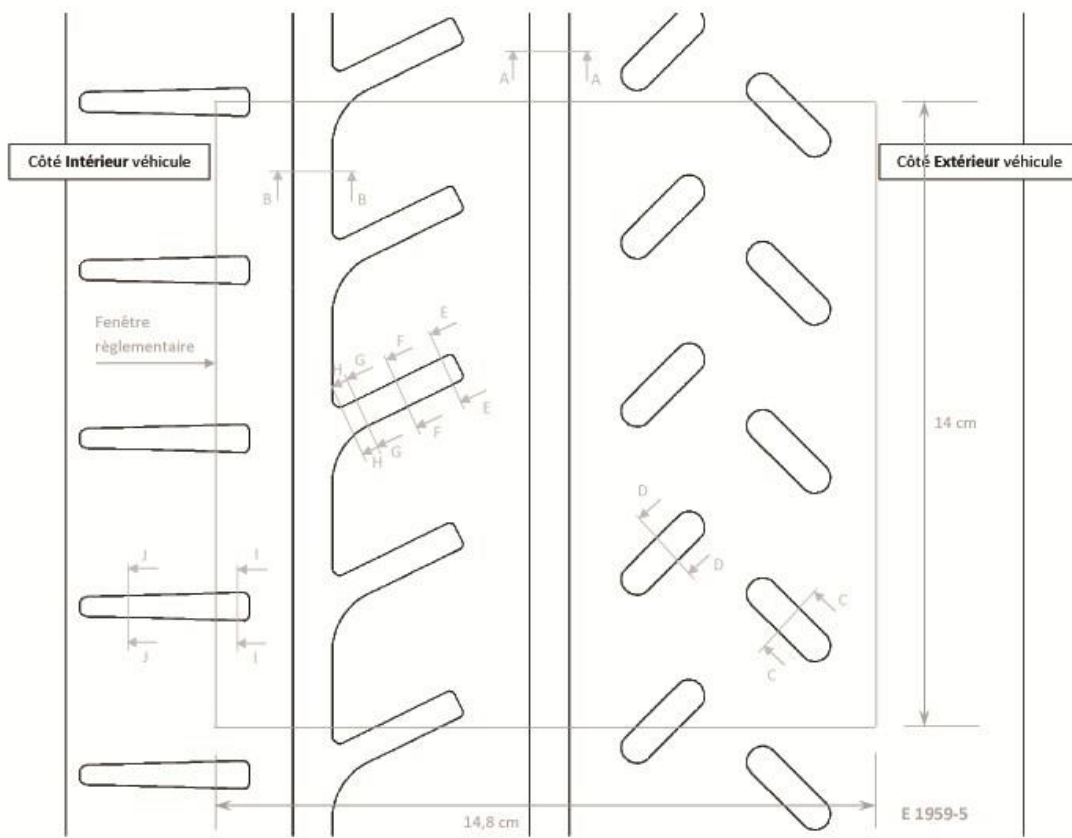
MANUFACTURE FRANCAISE DES PNEUMATIQUES  
 MICHELIN CLERMONT-FERRAND  
 PROPRIETE EXCLUSIVE DE NOTRE SOCIETE  
 REPRODUCTION OU UTILISATION INTERDITE SANS  
 NOTRE ACCORD ECRIT

# 17"- 19/63-17

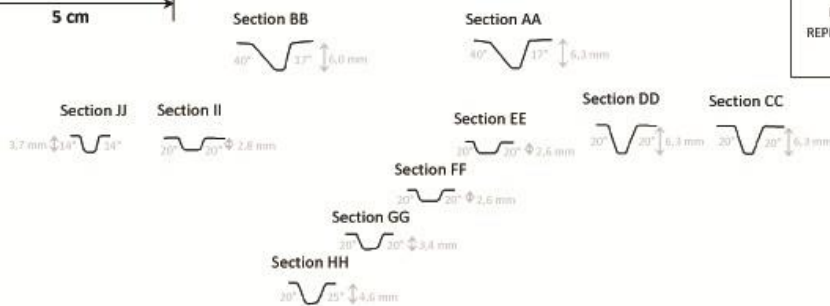


Domaine : Rallye Asphalte  
 Dimension : 19 / 63 – 17  
 Plan de la sculpture : Pilot Sport R  
 Entaillement surfacique sur fenêtre réglementaire : 21,51 %

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

# 17"- 19/63-17

Domaine : Rallye Asphalte Wet

Dimension : 19 / 63 - 17

Plan de la sculpture : Pilot Sport A MW1

Entaillement superficiel dans fenêtre

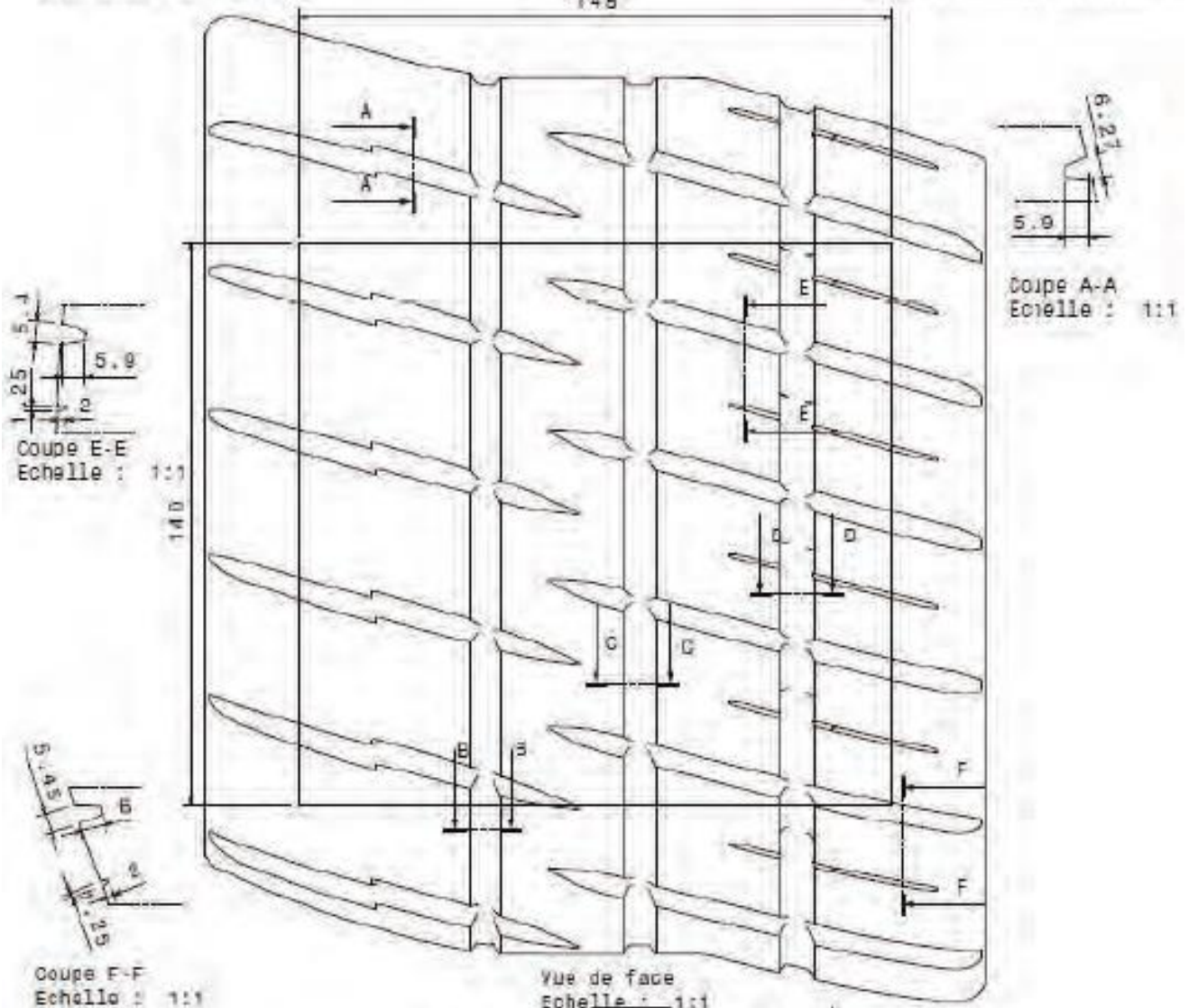
règlementaire > ou = 27.5 % avec les entailles > 1.8 mm de profondeur comme avec les entailles > 5.5 mm de profondeur.



Clermont-Ferrand le 18/09/2019

Côté Extérieur véhicule

Côté Intérieur véhicule



Coupe F-F  
Echelle : 1:1

Vue de face  
Echelle : 1:1

Coupe B-B  
Echelle : 1:1

Coupe C-C  
Echelle : 1:1

Coupe D-D  
Echelle : 1:1

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

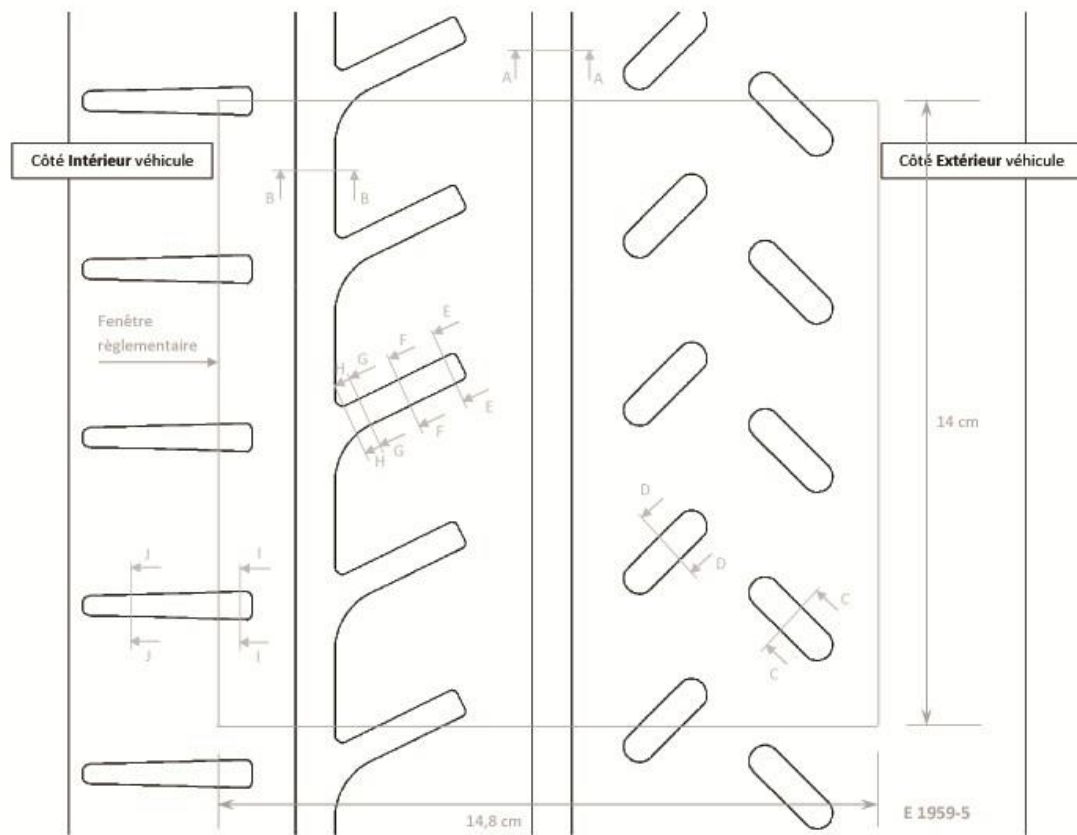


# 16" - 19/60-16

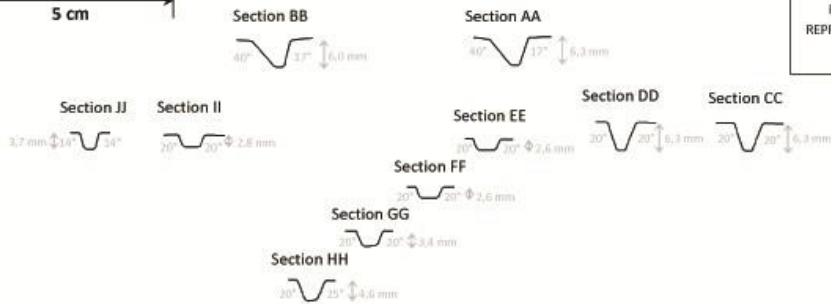


Domaine : Rallye Asphalte  
 Dimension : 19 / 60 - 16  
 Plan de la sculpture : Pilot Sport R  
 Entaillement surfacique sur fenêtre réglementaire : 21,51 %

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

# 16" - 19/60-16

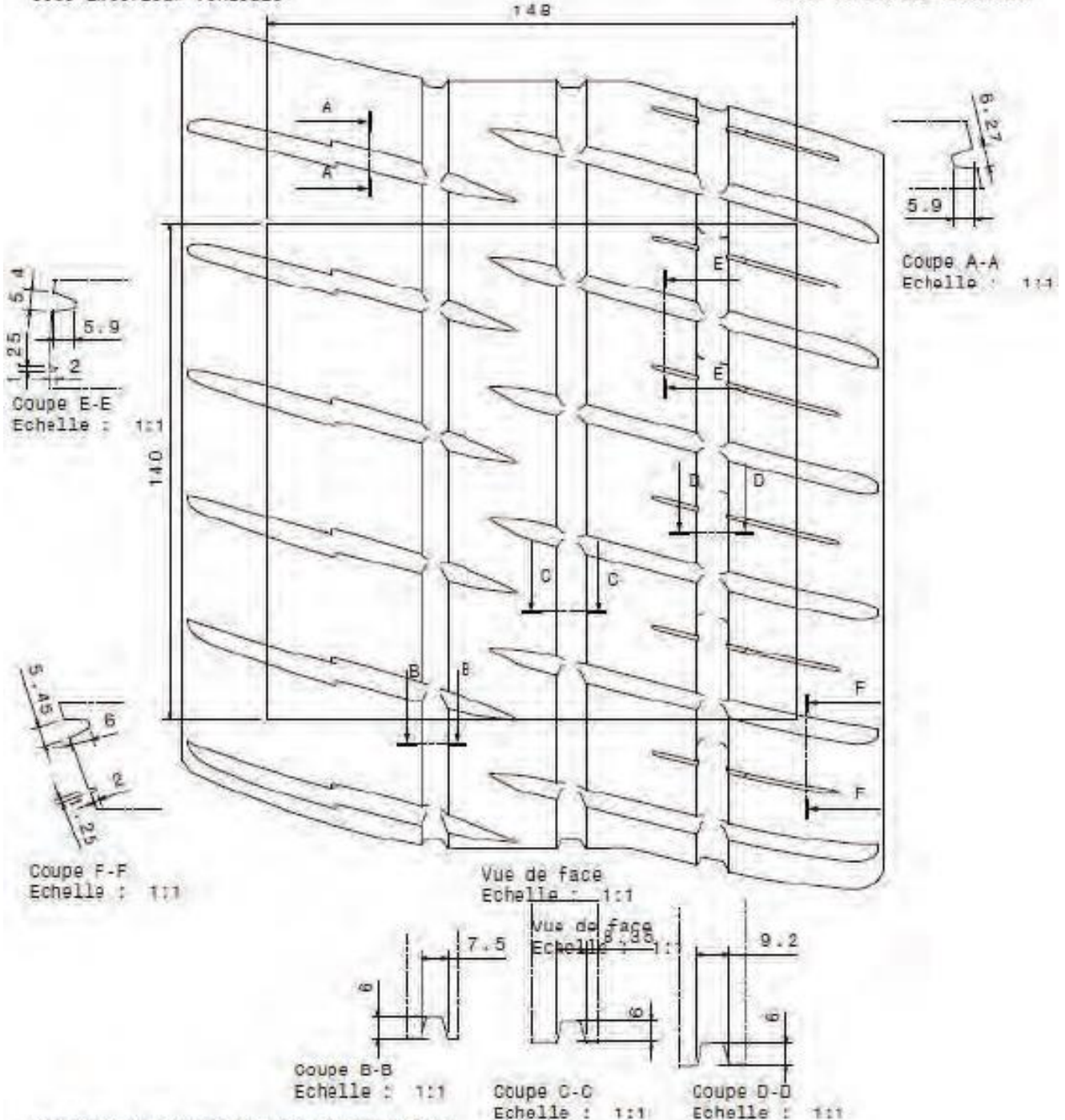
Domaine : Rallye Asphalte Wet  
 Dimension : 19 / 60 - 16  
 Plan de la sculpture : Pilôt Sport A MWi  
 Entaillement Surfaccique dans fenêtre  
 réglementaire > ou = 27.5 % avec les entailles > 1.8 mm de  
 profondeur comme avec les entailles > 5.5 mm de profondeur.



Clermont-Ferrand le 23/09/2019

Côté Extérieur véhicule

Côté Intérieur véhicule



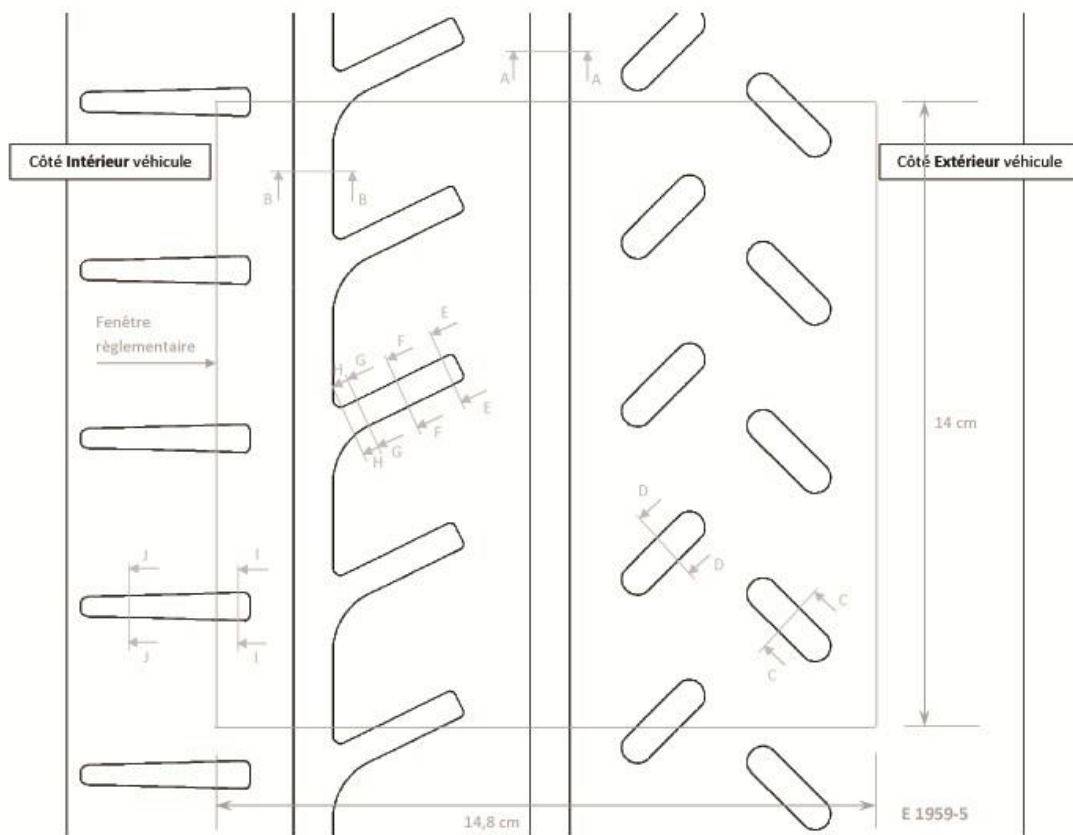
MANUFACTURE FRANCAISE DES PNEUMATIQUES  
 MICHELIN CLERMONT-FERRAND  
 PROPRIETE EXCLUSIVE DE NOTRE SOCIETE  
 REPRODUCTION OU UTILISATION INTERDITE SANS  
 NOTRE ACCORD ECRIT

# 15" - 19/58-15

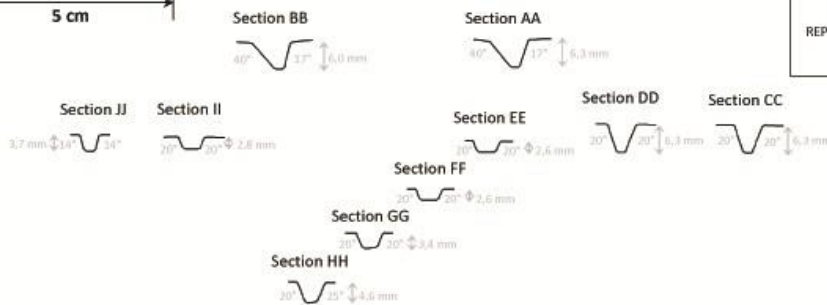


Domaine : Rallye Asphalte  
 Dimension : 19 / 58 – 15  
 Plan de la sculpture : Pilot Sport R  
 Entaillement surfacique sur fenêtre réglementaire : 21,51 %

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.

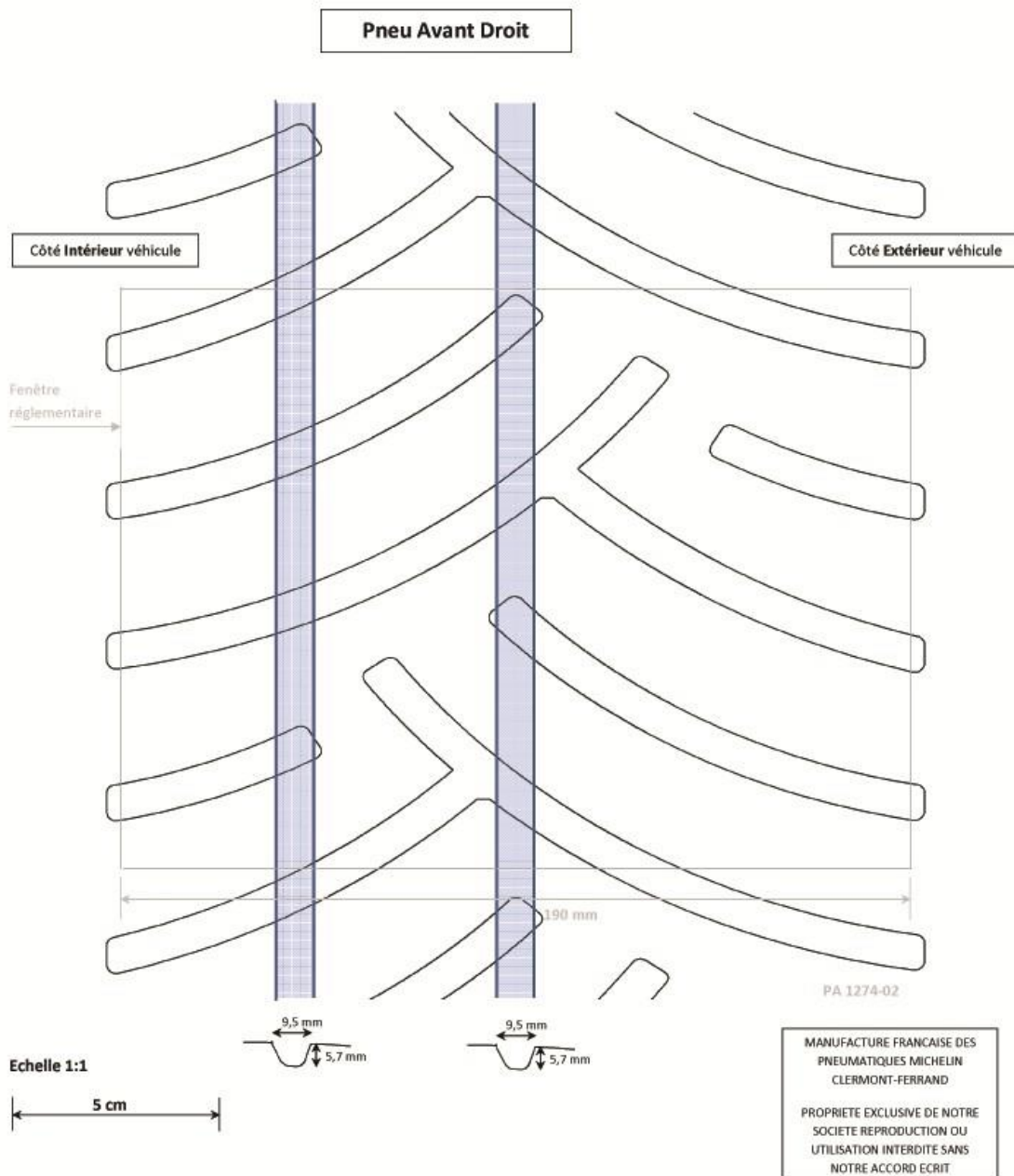


Domaine : Rallye Asphalte

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

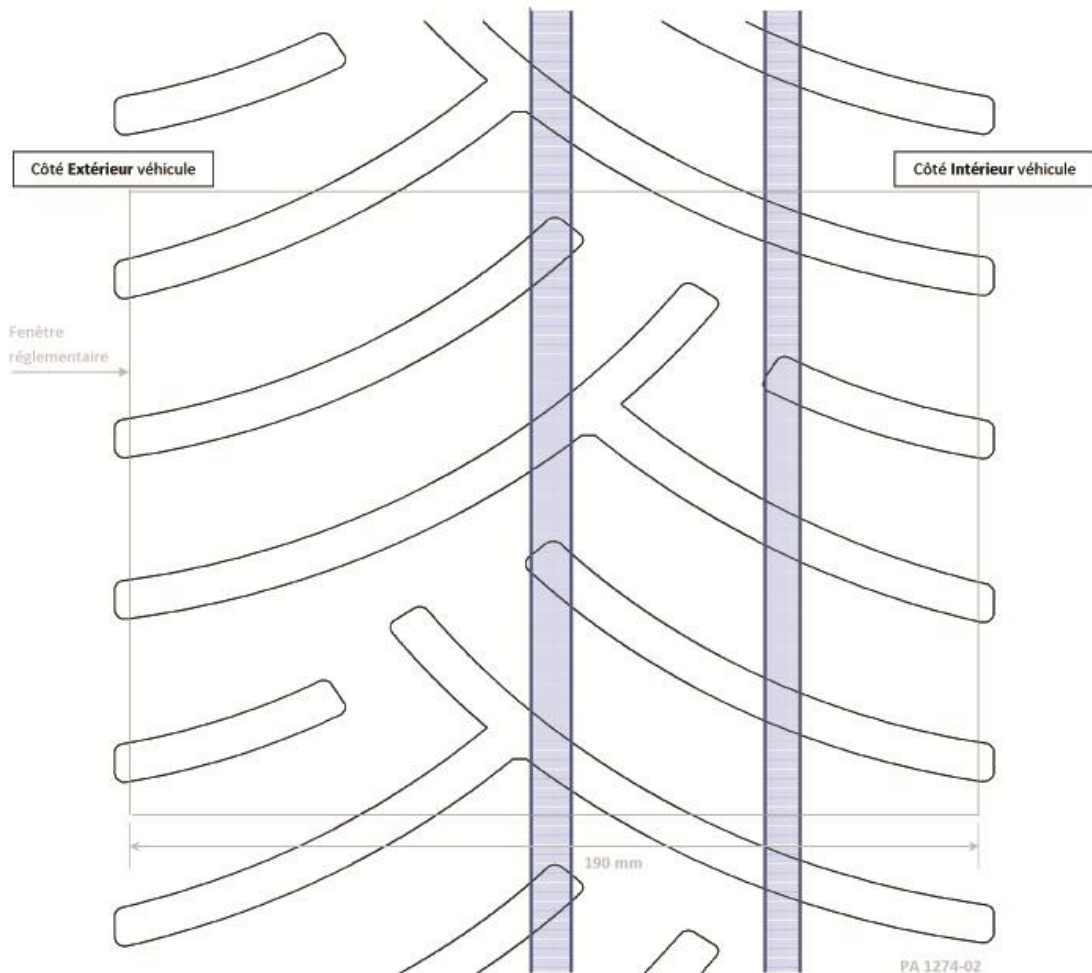
Circonférentielles sont manuellement coupées.



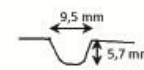
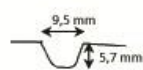
Domaine : Rallye Asphalte  
Dimension : 24 / 65 - 18  
Entaillement surfacique global : 32,8 %

Clermont-Ferrand le 18/12/2013

## Pneu Avant Gauche



Echelle 1:1



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



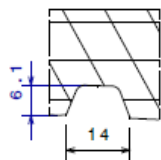
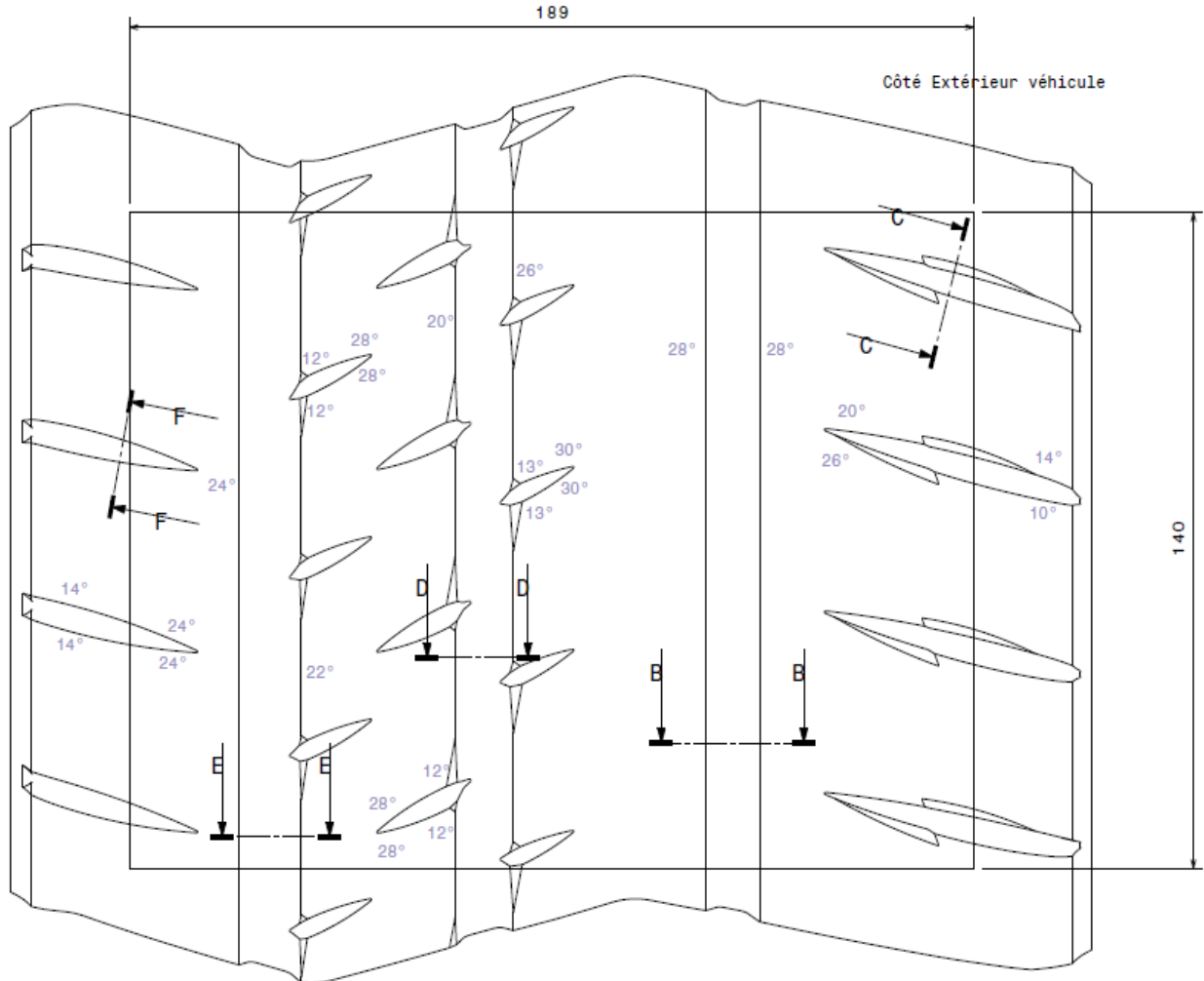
Domaine : Rallye Asphalte

Clermont-Ferrand le 28/02/2018

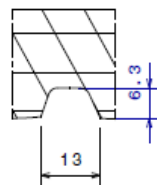
Dimension : 24/65 R18

Plan de la sculpture : Pilot Sport R

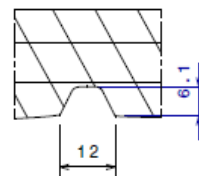
Entaillement Surfaccique dans fenetre règlementaire : 21.7 % à 1.8 mm d'usure  
: 17 % à 5.5 mm d'usure



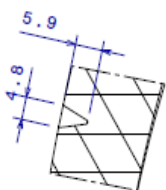
Coupe E-E



Coupe D-D

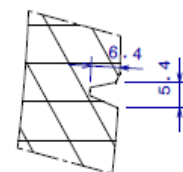


Coupe B-B



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

# RGT only - 29/65-18

Circonférentielles sont coupées à la main.

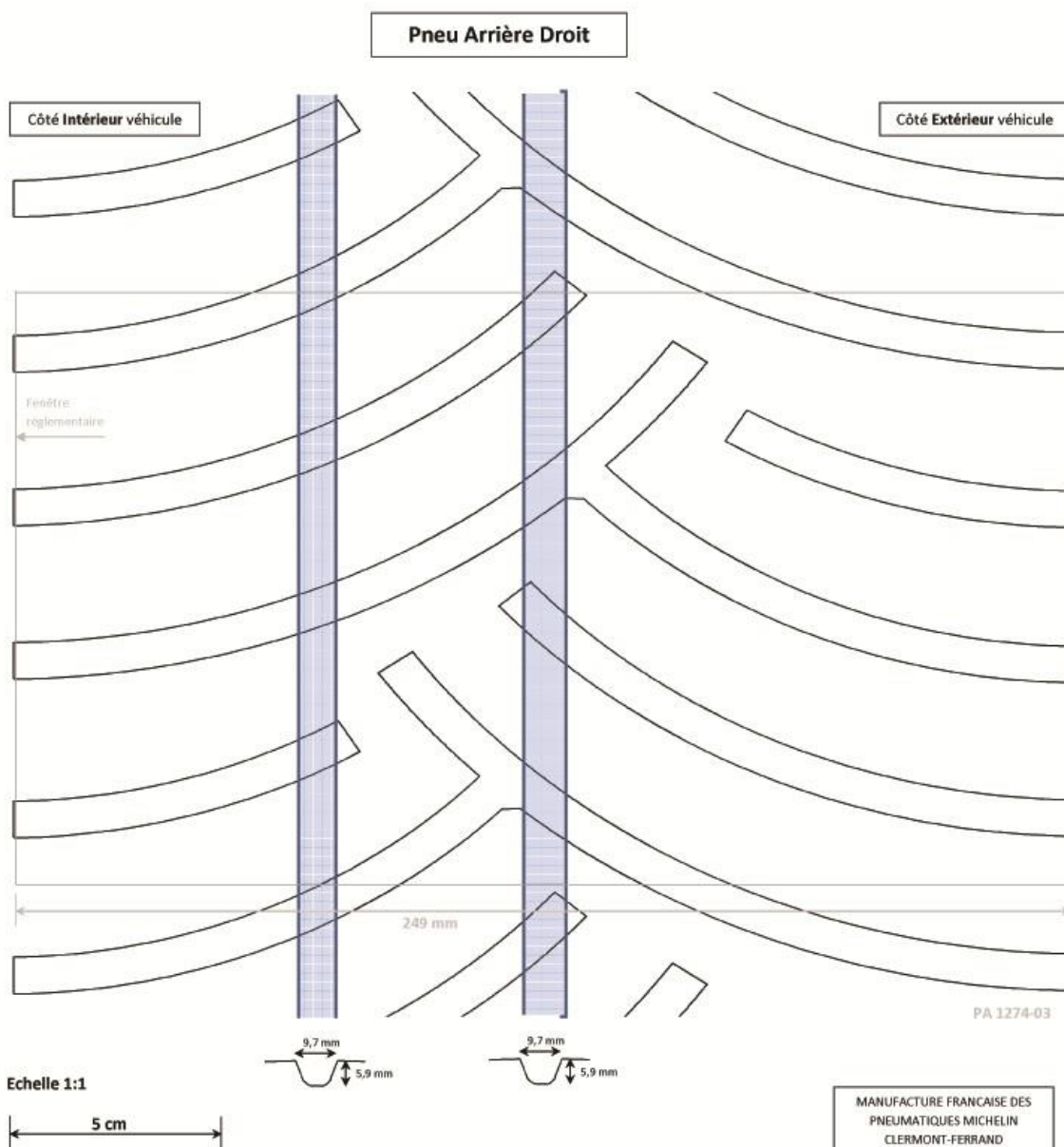


Domaine : Rallye Asphalte

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

Circonférentielles sont manuellement coupées.

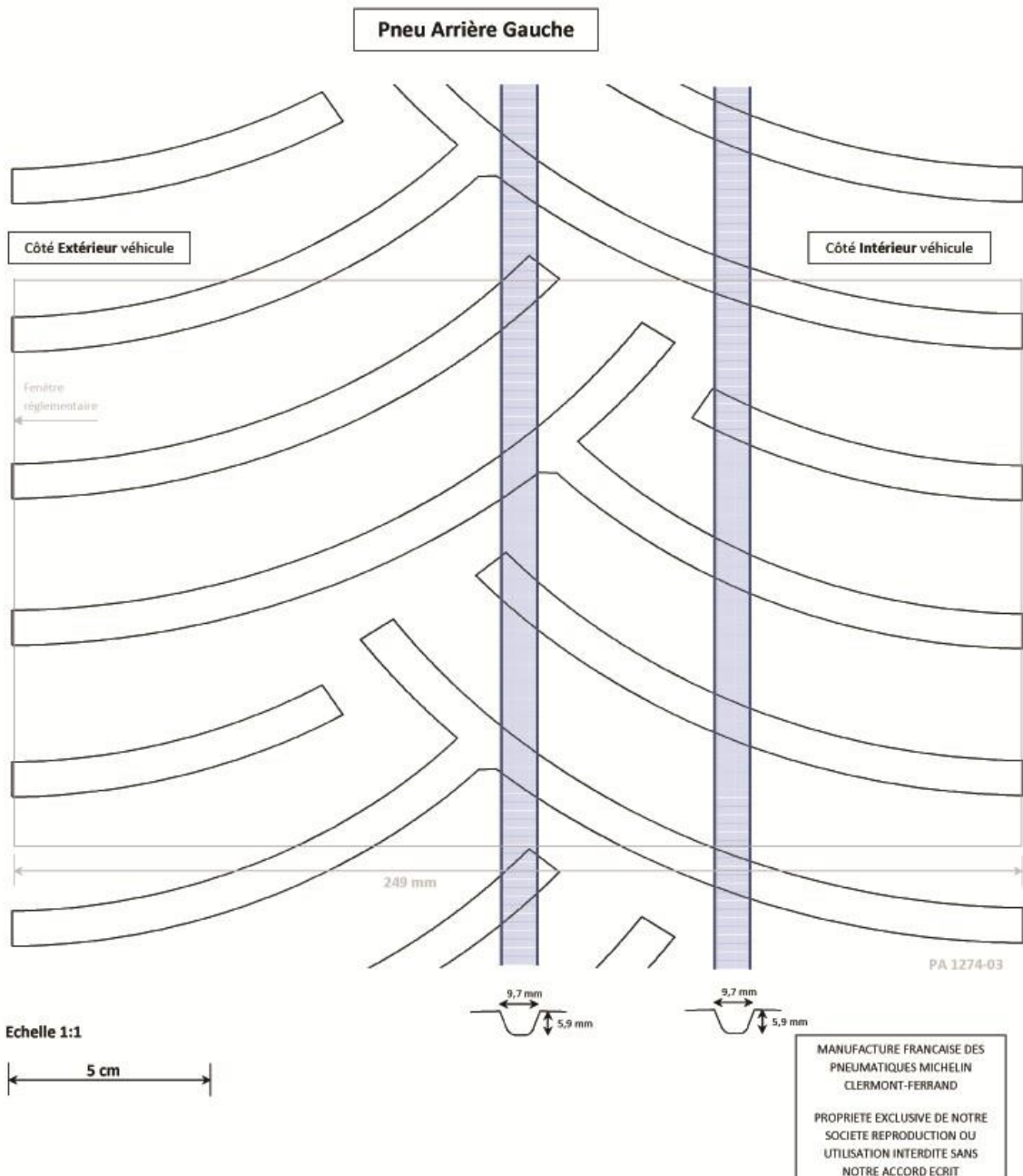


Domaine : Rallye Asphalte

Dimension : 29 / 65 - 18

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

Clermont-Ferrand le 18/12/2013



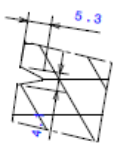
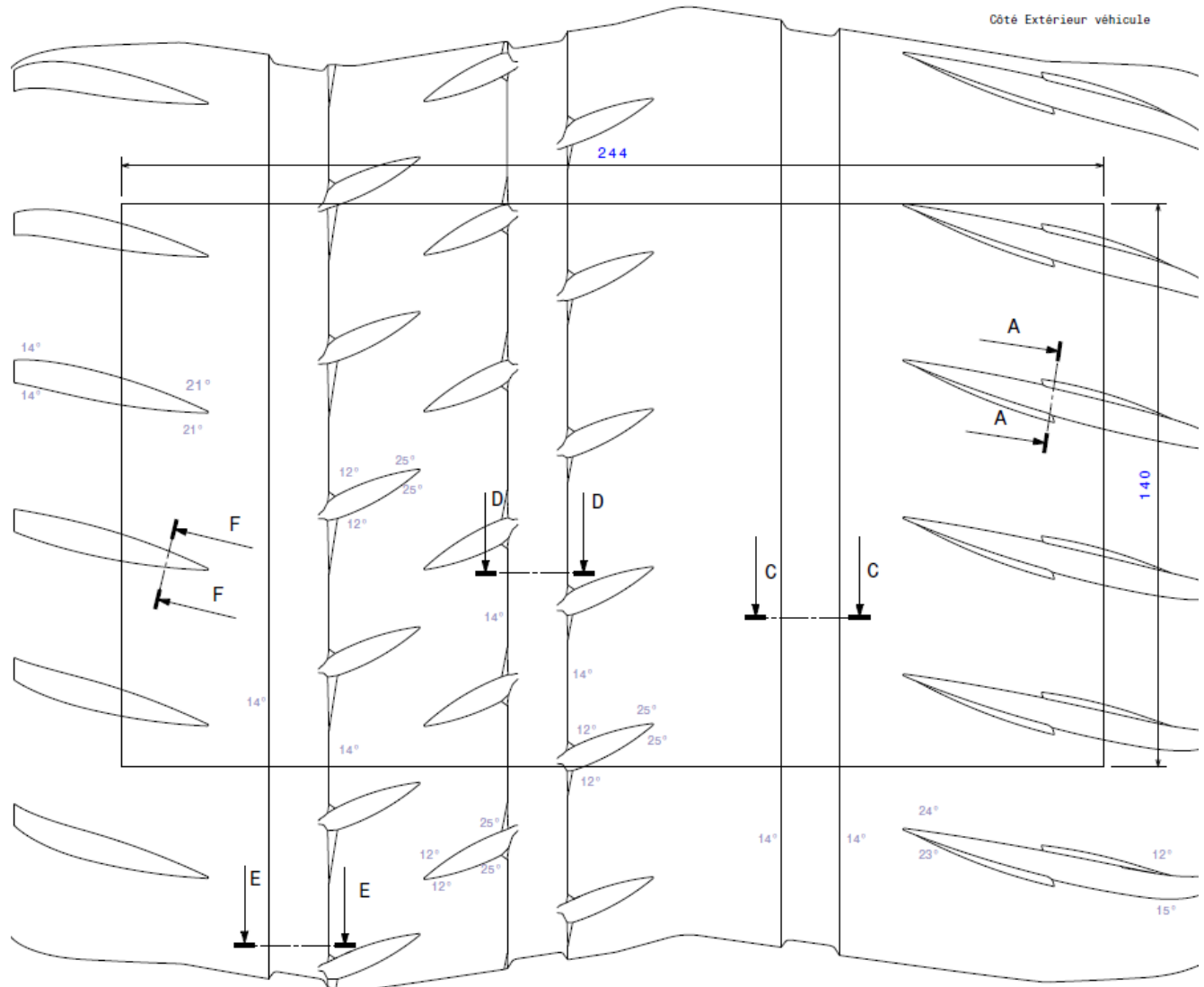


# RGT only - 29/65-18

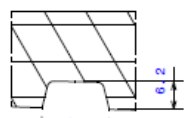


Domaine : Rallye Asphalte  
 Dimension : 29/65 R18  
 Plan de la sculpture : Pilot Sport R  
 Entaillement Surfaccique dans fenêtre réglementaire : 22.6 % à 1.8 mm d'usure  
 : 19.2 % à 5.5 mm d'usure

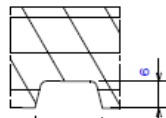
Clermont-Ferrand le 28/02/2018



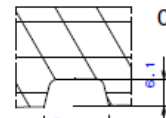
Coupe F-F



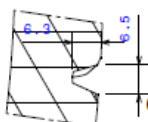
Coupe E-E



Coupe D-D



Coupe C-C



Coupe A-A

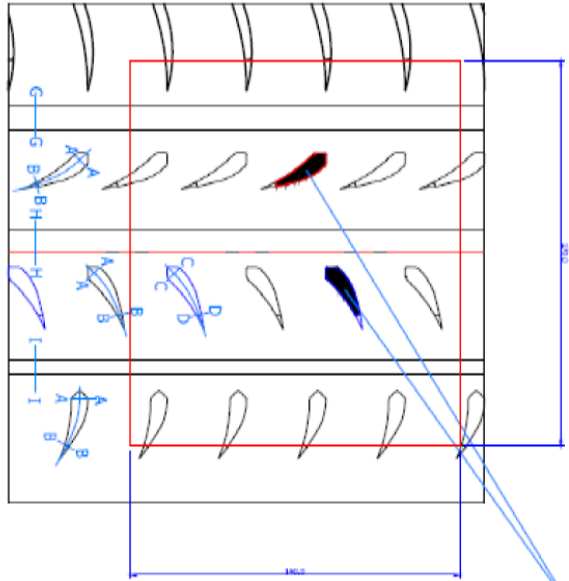
MANUFACTURE FRANCAISE DES PNEUMATIQUES MICHELIN  
 CLERMONT-FERRAND  
 PROPRIETE EXCLUSIVE DE NOTRE SOCIETE  
 REPRODUCTION OU UTILISATION INTERDITE SANS  
 NOTRE ACCORD ECRIT



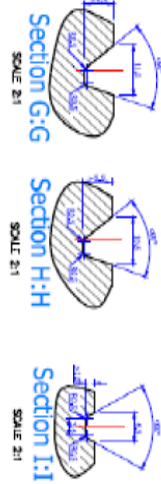
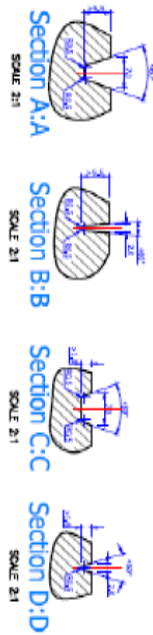




## 18" - 225/40-18



Single element  
area 125,56mm<sup>2</sup>



RIM 8,0" Class 9"

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

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

DRAWING REFERENCES	APPROVAL

DIMENSIONS	UNIT
225/40 R18 DMT RC22 - FIA Homologation table	MM
DMACK TYRES - ENGLAND,	METRIC

DMACK Tyres Ltd  
16FB037

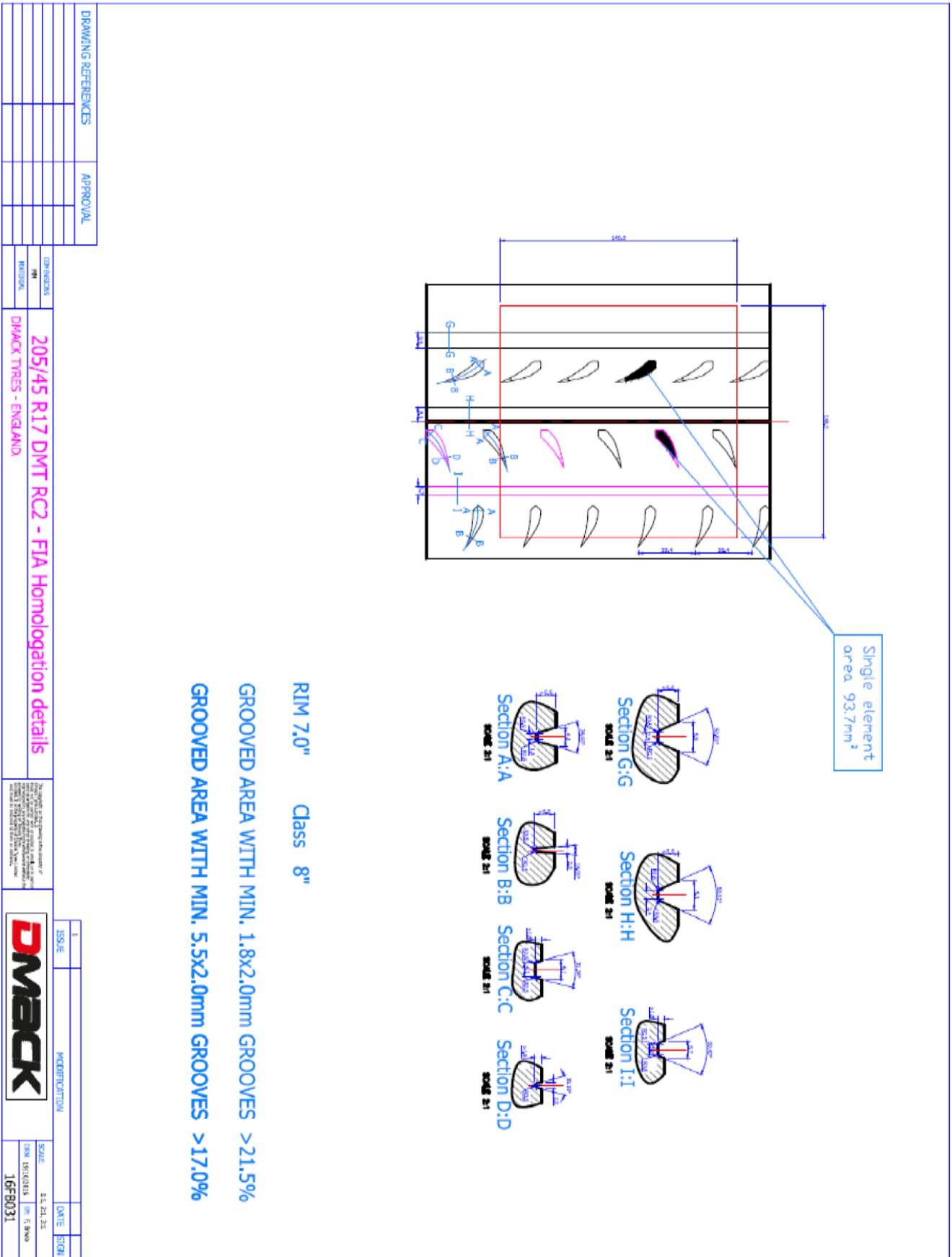
ISSUE	MODIFICATION	DATE	SIGN
1			



SCALE: 1:1  
DATE: 2013.05.16  
16FB037



## 17" - 205/45-17



DRAWING REFERENCES		APPROVAL	

DIMENSIONS		DRAWING	
MM	INCH	DESCRIPTION	SCALE
205	8.1	205/45 R17 DMT RC2 - FIA Homologation details	1:1
45	1.8	DMACK TYRES - ENGLAND	1:1

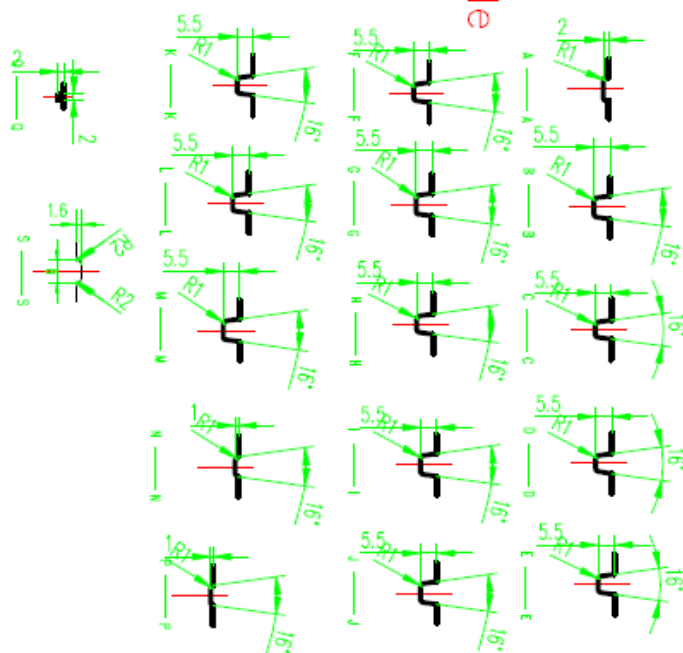
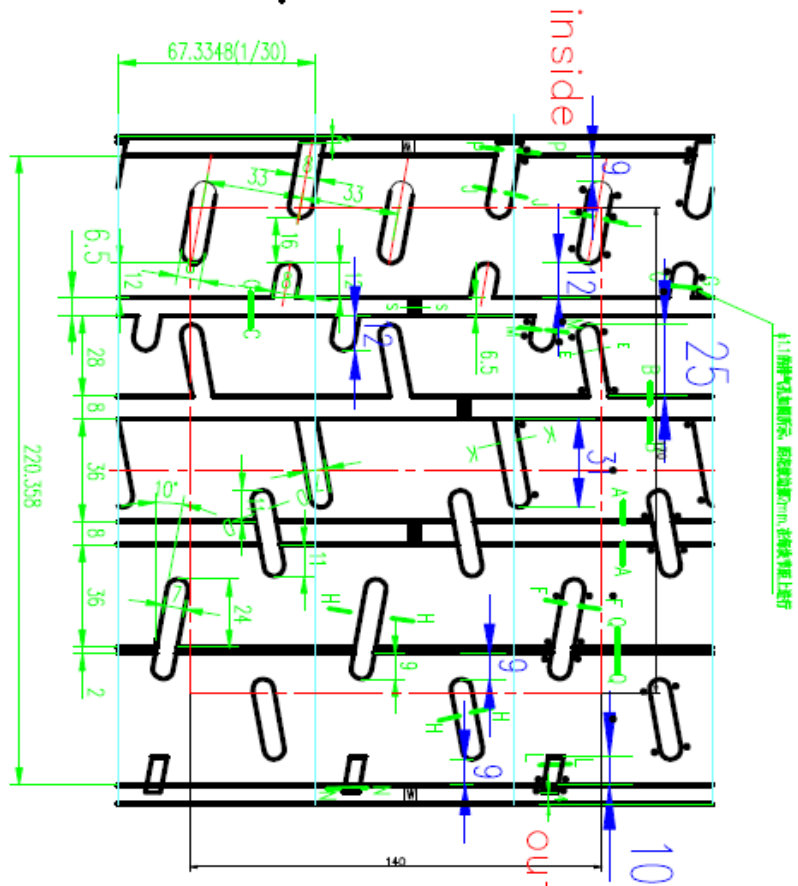
ISSUE		MODIFICATION		SCALE	
NO.	DATE	DESCRIPTION	BY	DATE	SCALE
1	16 FEB 2011				



DMACK  
16F0031

## 17" - 225/45-17

GROOVES SURFACE AREA=5707.86 mm<sup>2</sup>  
 CONTROL SURFACE =23800 mm<sup>2</sup>  
 5707.86/23800=23.9833%



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

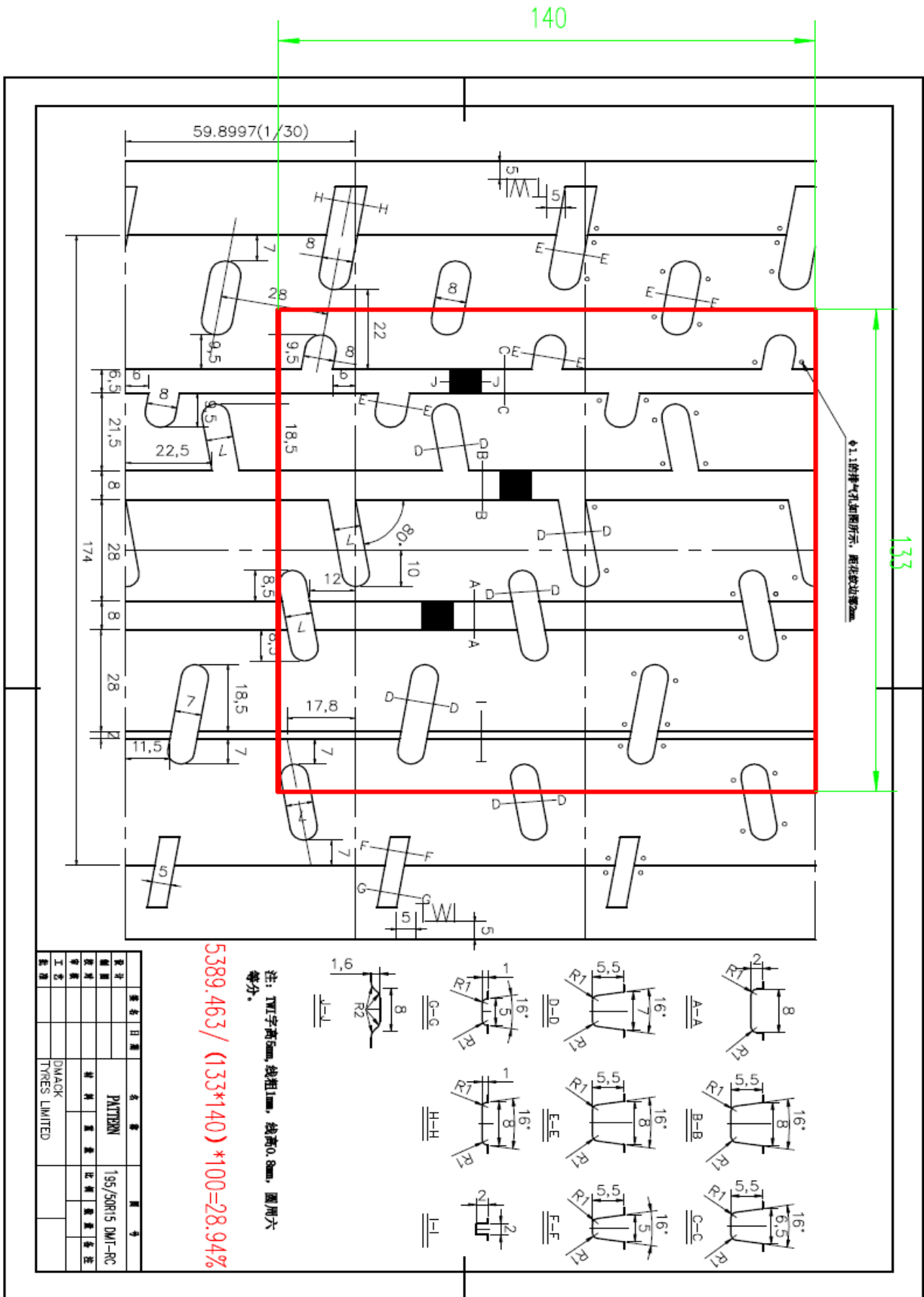






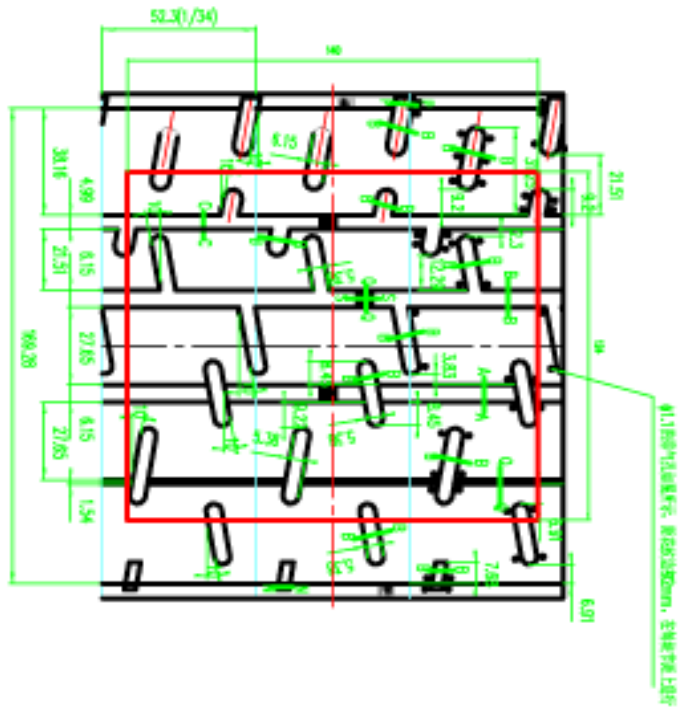


## 15" - 195/50-15

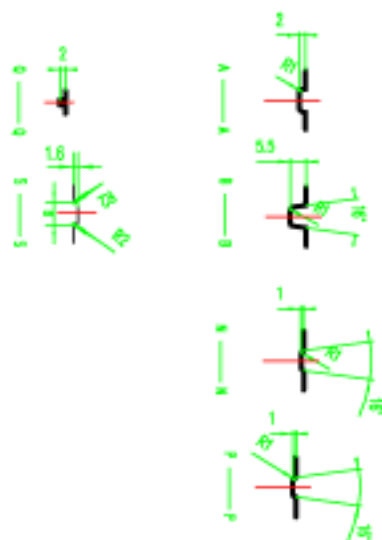




## 14" - 175/60-14



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%

设计	审核	日期	名称	规格
设计			TREAD	175/60R14 DMT-RC
审核			材料	重量
工艺			比例	重量
批准			工艺	重量

DMACK TYRES LTD







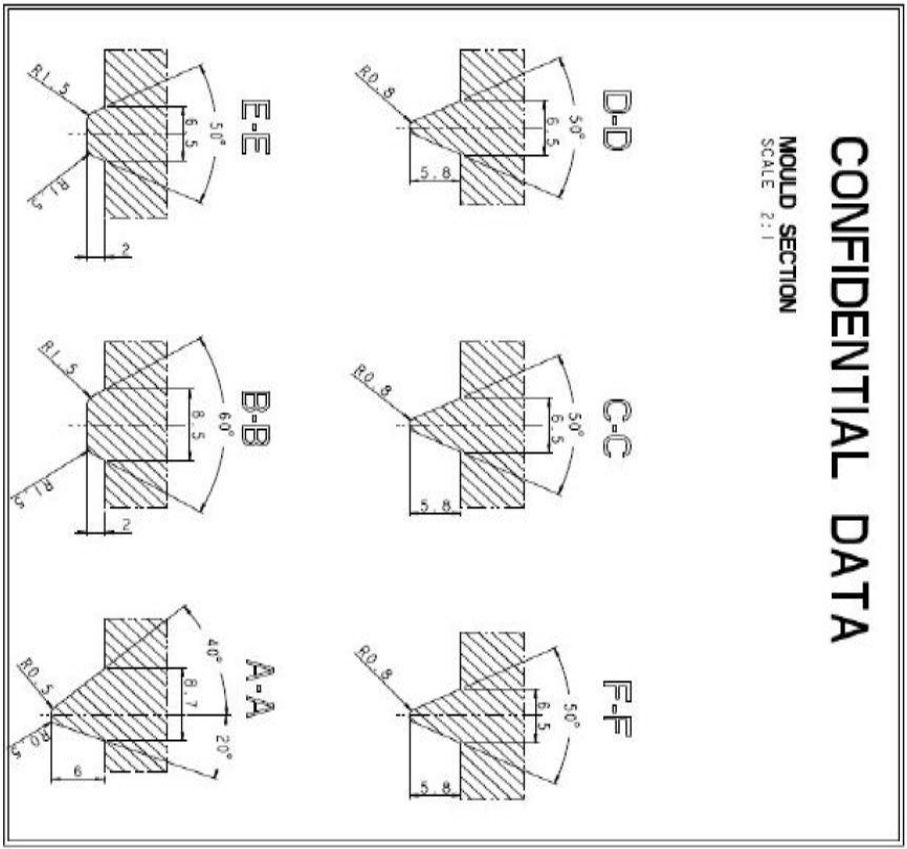




# 17" - 205/45 - 17

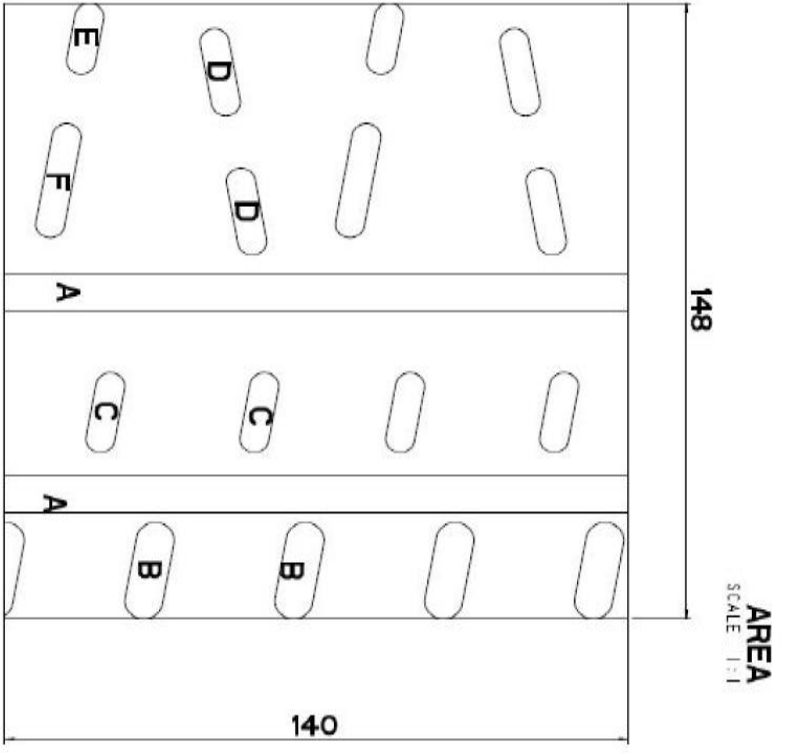
## CONFIDENTIAL DATA

MOULD SECTION  
SCALE 2:1



SUP. EMPTY DEPTH > 5.5 > 17%  
 SUP. EMPTY DEPTH > 18 > 215%  
 The sum of the width of the grooves encountered by a radial line is > 16mm  
 The total width of circumferential lines is > 12mm

CLASS 8"  
RIM 7"



AREA  
SCALE 1:1

Item	Material	Treatment	Modification	Date	Sign
1					
2					
3					
4					

MOULD SECTION	Project	Termination	Quantity	Material	Scale
MOULD SECTION	205/45-17	5575	1	1:1	1:1
D. AREA	1:1	1:1			
M. AREA					

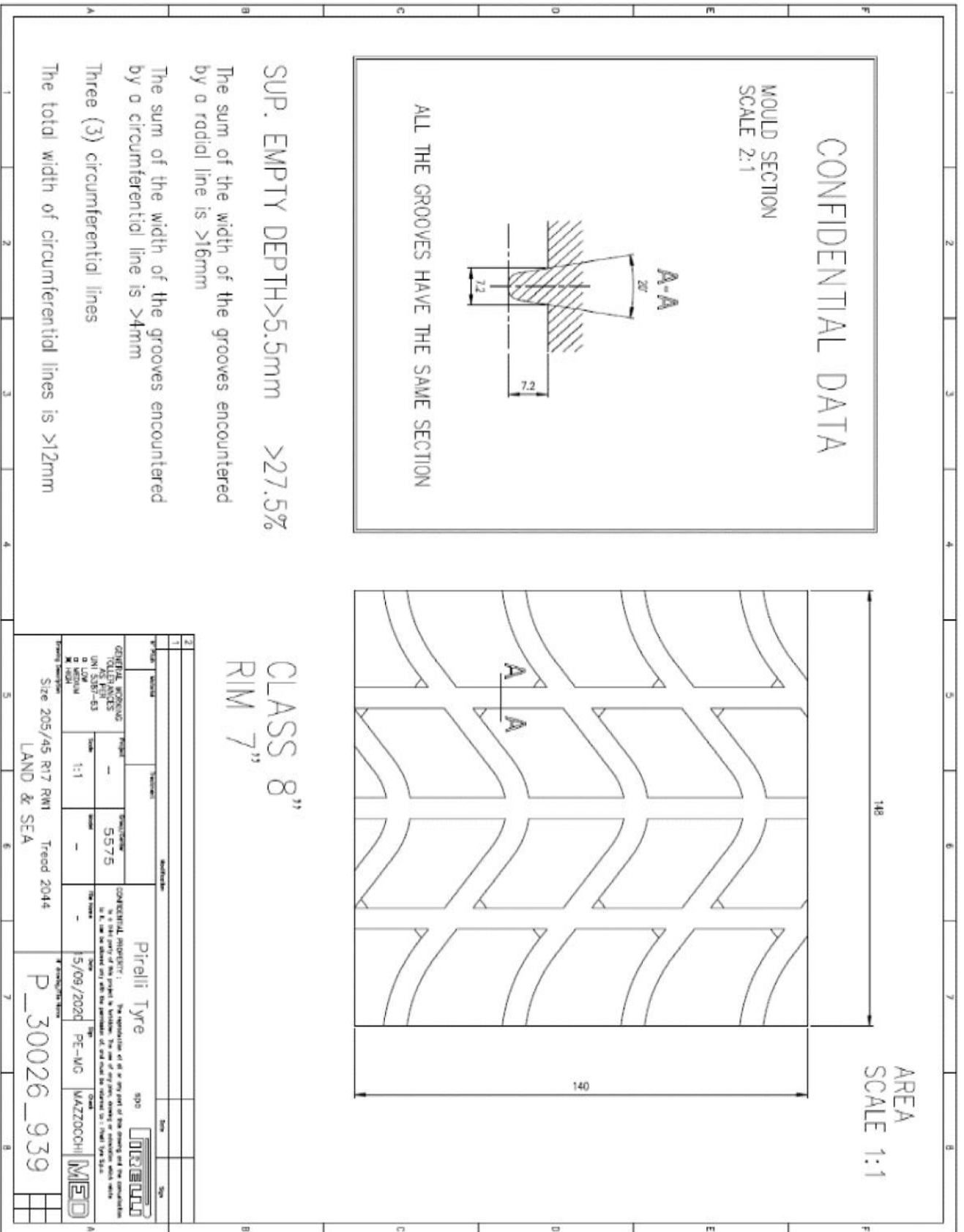
Size 205/45-17 RK Tread 1838  
LAWD & SEA

Pirelli Tyre spa  
 19/03/2014  
 PE - MG  
 MAZZUCCHI  
 PRO/E

P\_300004\_292



# 17" - 205/45 - 17

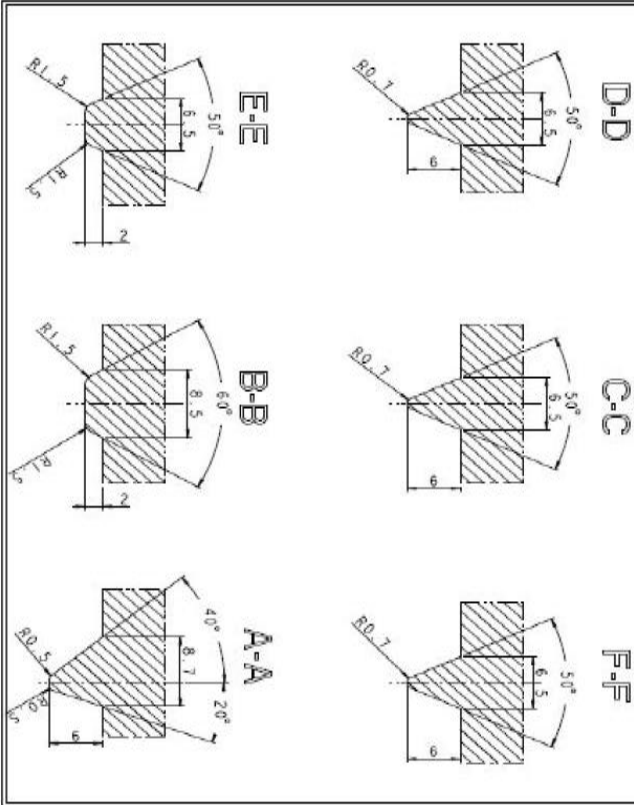




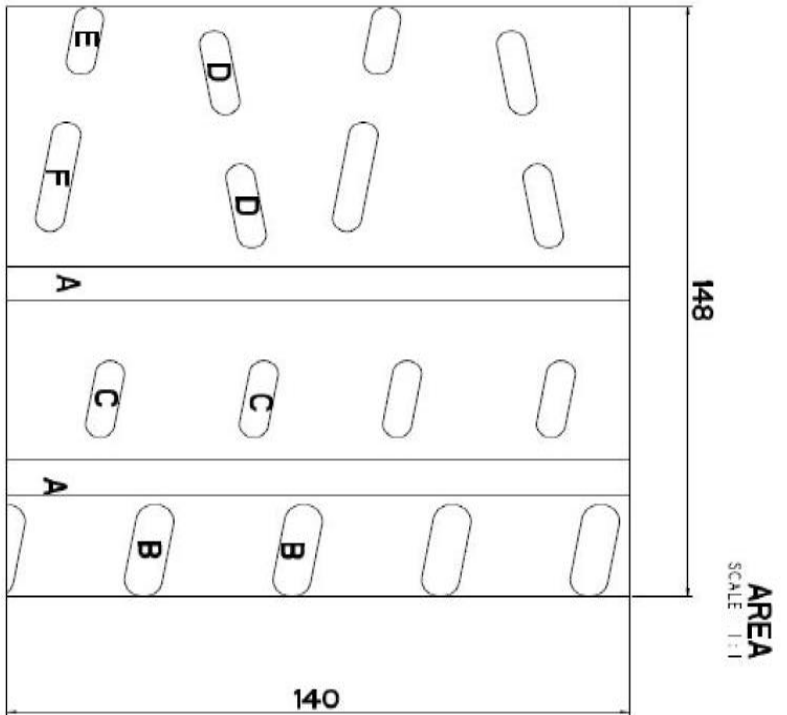
# 16" - 195/50-16

## CONFIDENTIAL DATA

MOULD SECTION  
SCALE 2:1



SUP. EMPTY DEPTH > 5.5 > 7%  
 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



CLASS 8"  
RIM 7"

1	2	3	4	5	6	7	8
DESCRIPTION		MODIFICATION		DATE		SIGNATURE	
PROJECT		INVENTOR		CONSTRUCTION		DATE	
SCALE		MATERIAL		TREAD		SCALE	
1:1		PE - MC		19/03/2014		PE - MC	
DATE		MATERIAL		TREAD		SCALE	
19/03/2014		MAITOCCHI		PRO/E		1:1	
SIZE		TREAD		SCALE		DATE	
195/50-16 RK		18384		1:1		19/03/2014	
LAND & SEA		SCALE		DATE		SIGNATURE	
P_300004_291		1:1		19/03/2014		MAITOCCHI	

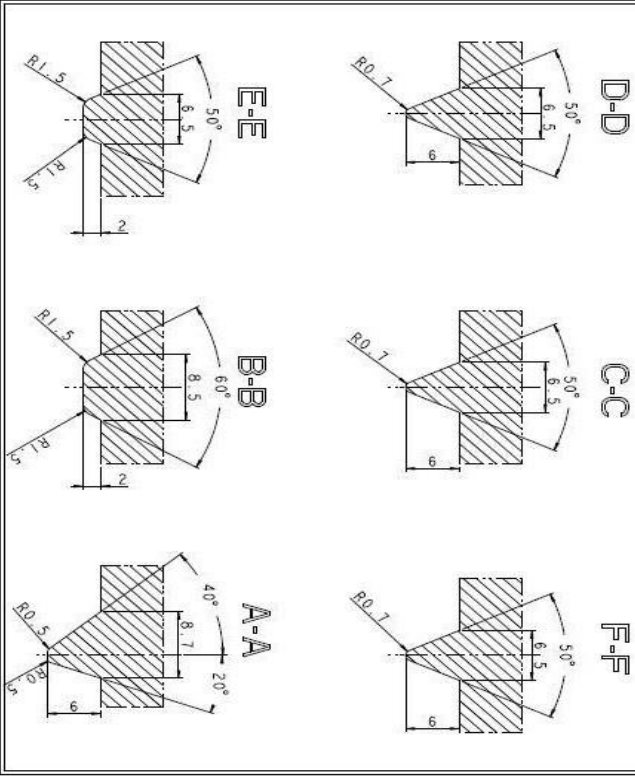




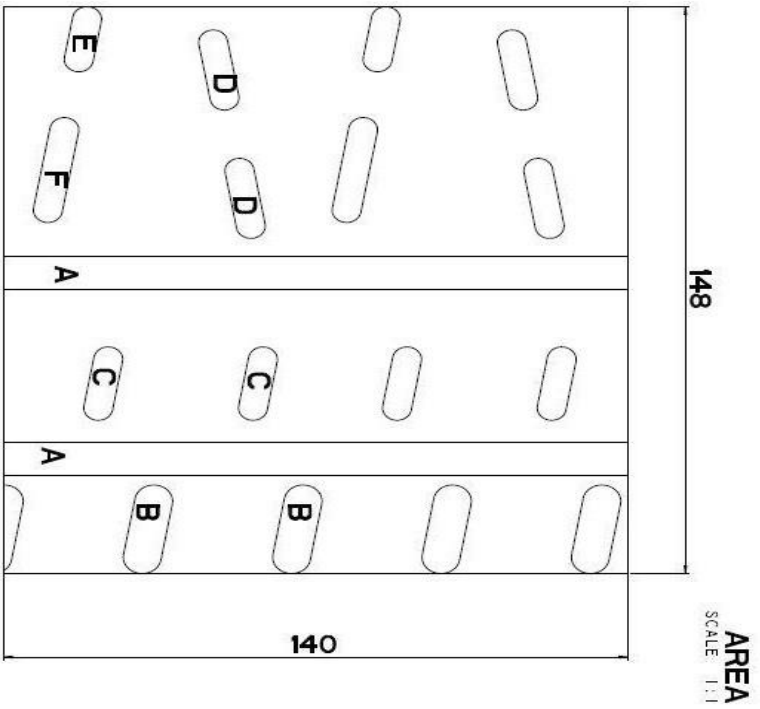
# 15" - 195/50-15

## CONFIDENTIAL DATA

MOULD SECTION  
SCALE 2:1



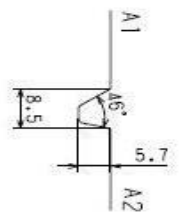
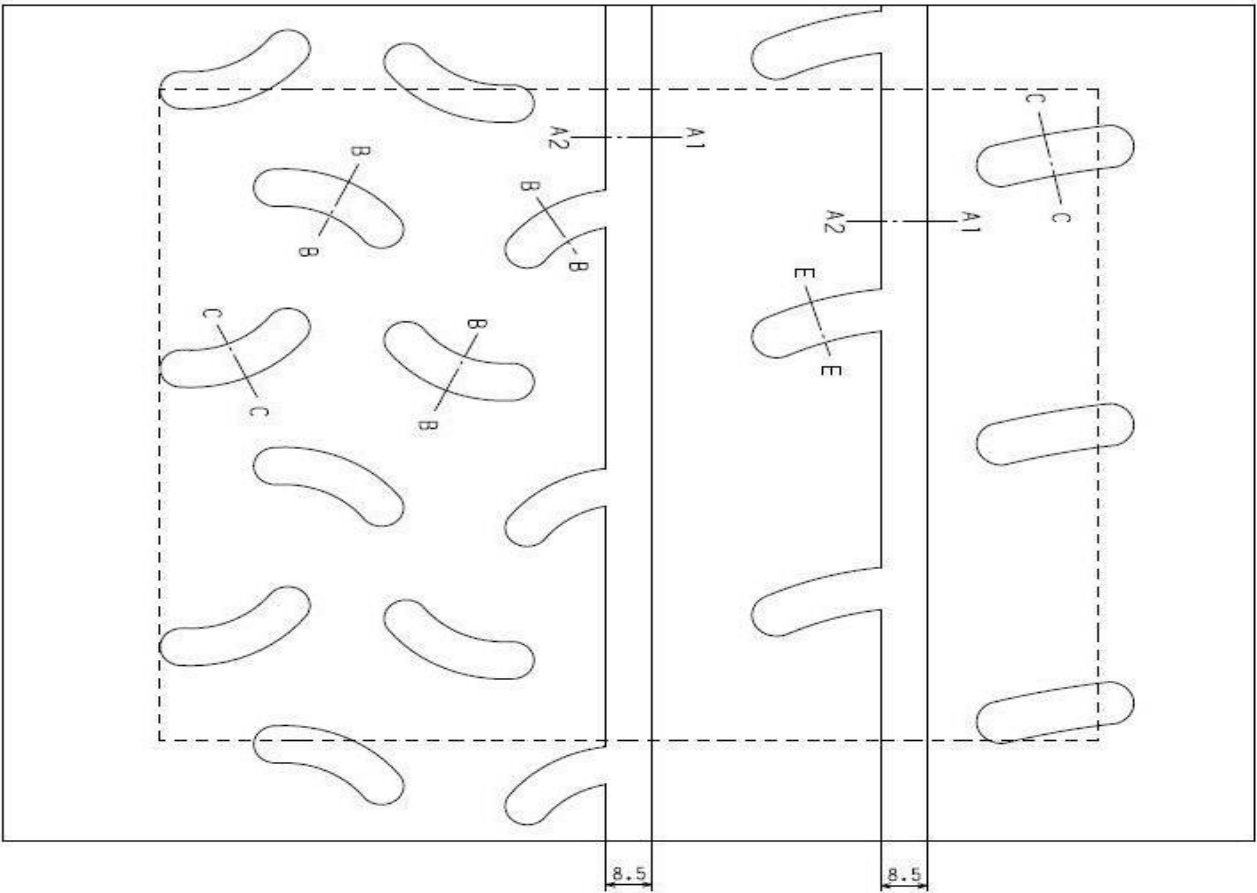
SUP. EMPTY DEPTH > 5.5 > 17%  
 SUP. EMPTY DEPTH > 1.8 > 21.5%  
 The sum of the width of the grooves encountered by a radial line is > 16mm  
 The total width of circumferential lines is > 12mm



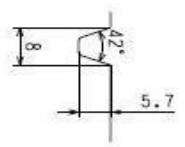
CLASS 8"  
RIM 7"

1	2	3	4	5	6	7	8
N° PITCH		MATERIAL		TREATMENT		MODIFICATION	
REACTOR		Product		Manufacturer		Pirelli Tyre spa	
D. CODE		5575		DATE		19/03/2014	
D. MODEL		1:1		PE - WC		MAZZOCCHI	
D. NAME		PV		PRO/E		PRO/E	
Drawing description		Size 195/50-15 RK Tread 1838A		P. Drawing file name		P_300004_290	
LAND & SEA							

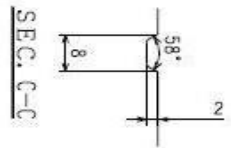
# 18" - 235/40-18



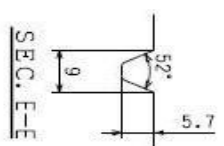
SEC. A1-A2



SEC. B-B



SEC. C-C



SEC. E-E

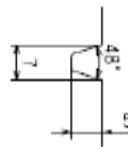
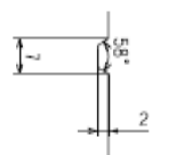
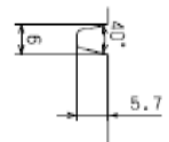
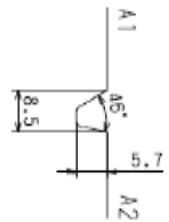
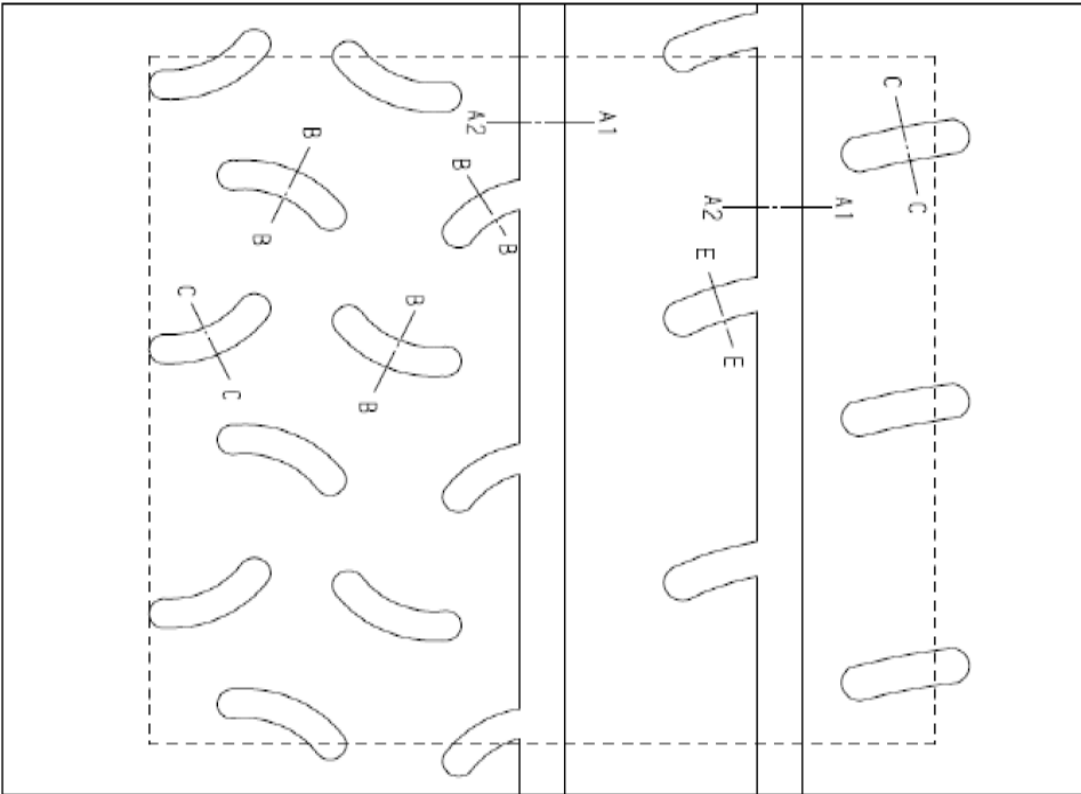
In the control area  
 5.5mm grooves-18.1%  
 Total grooves-22.2%

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

**PRODUCT NAME**  
**YOKOHAMA ADVAN AD51T**

**PATTERN NAME**  
**AD51A**

**SIZE 210/650R18**



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

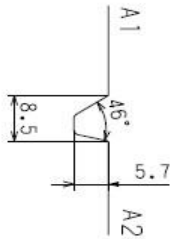
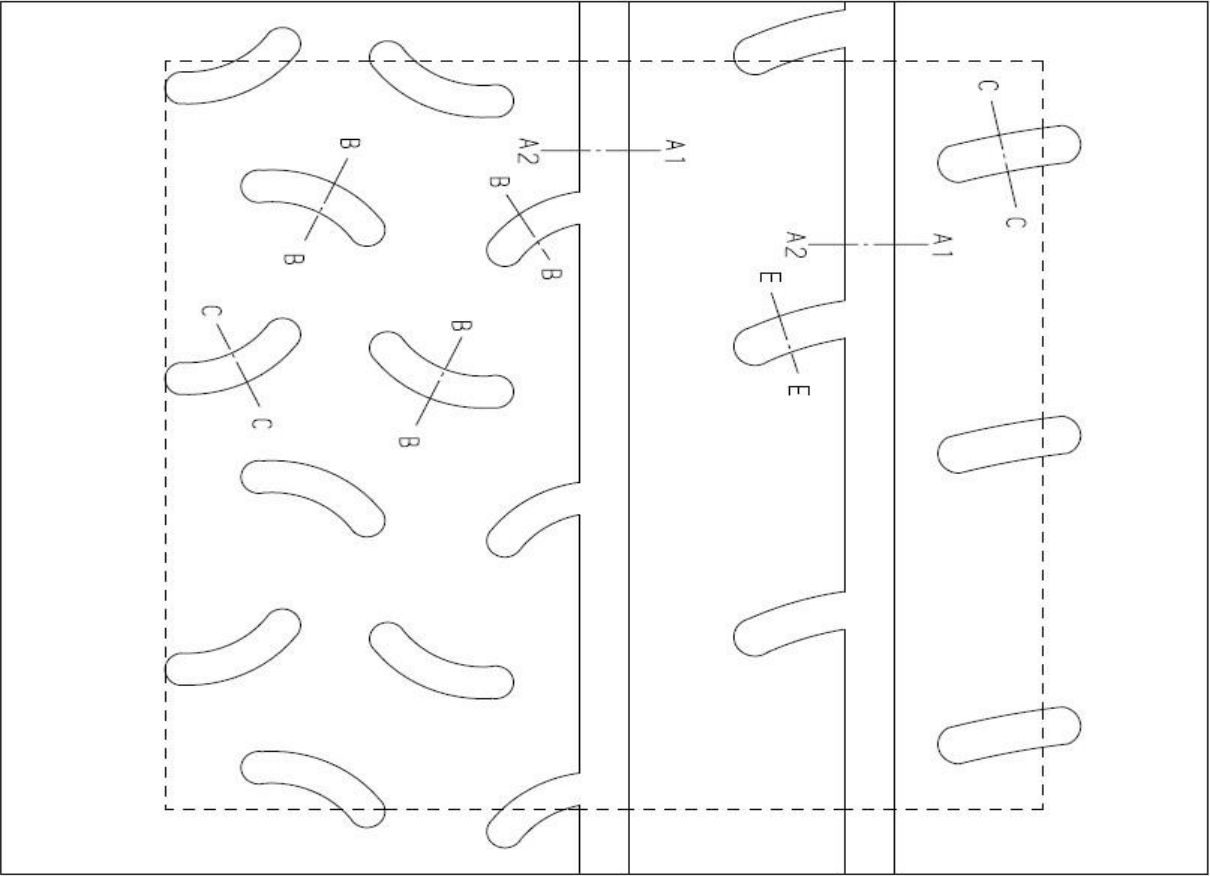
----- Control area 170X140

**PRODUCT NAME**  
**YOKOHAMA ADVAN AD517**

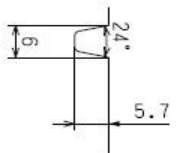
**PATTERN NAME**  
**AD51A**

**SIZE 210/625R17**

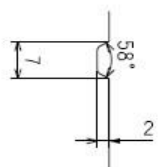




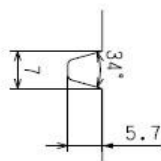
SEC. A1-A2



SEC. B-B



SEC. C-C



SEC. E-E

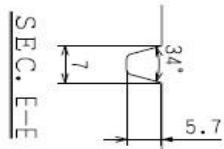
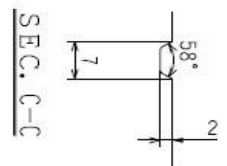
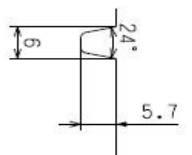
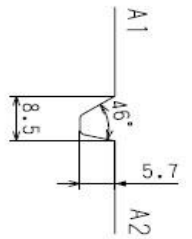
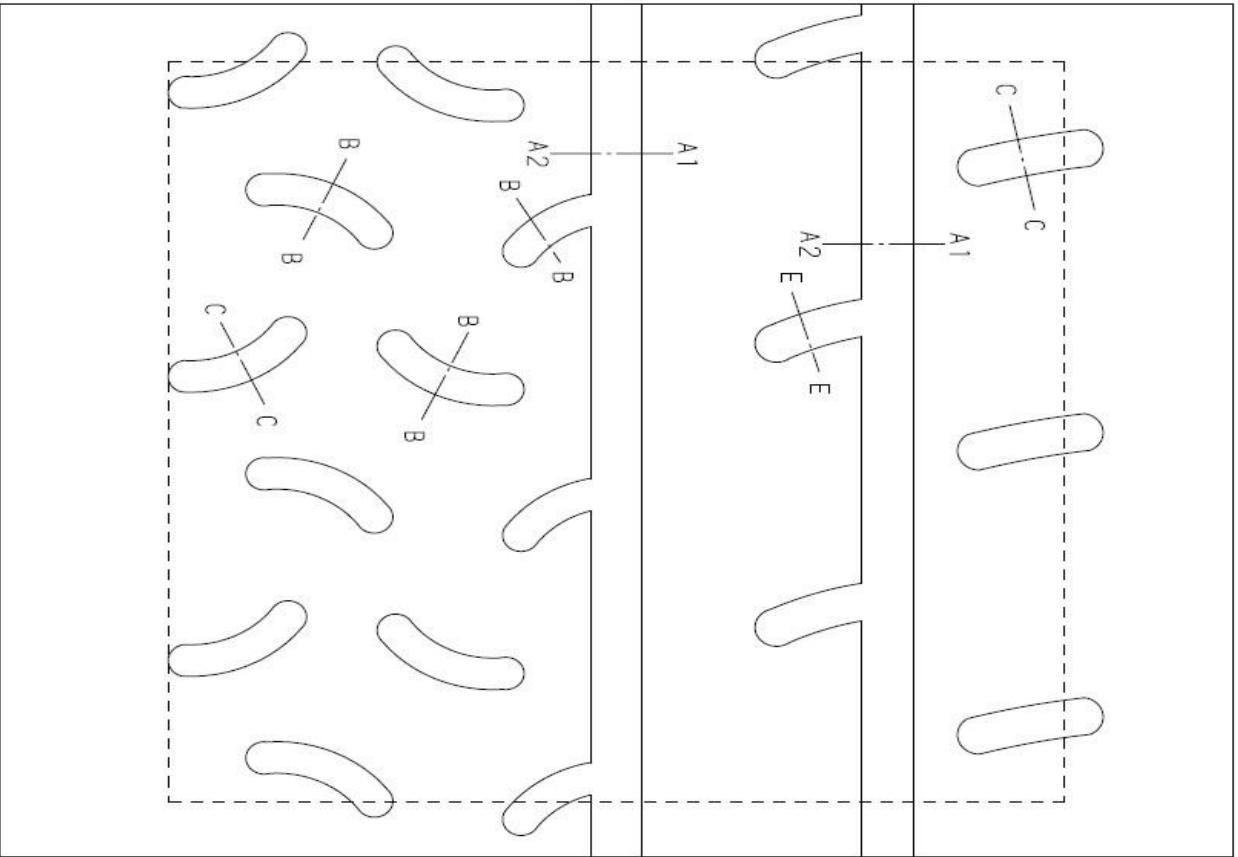
In the control area  
 5.5mm grooves - 18.2%  
 Total grooves - 22.0%

----- Control area 148X140

**PRODUCT NAME**  
**YOKOHAMA ADVAN A0517**

**PATTERN NAME**  
**A051A**

**SIZE 190/625R17**



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

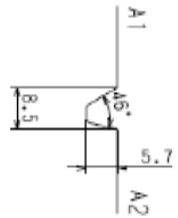
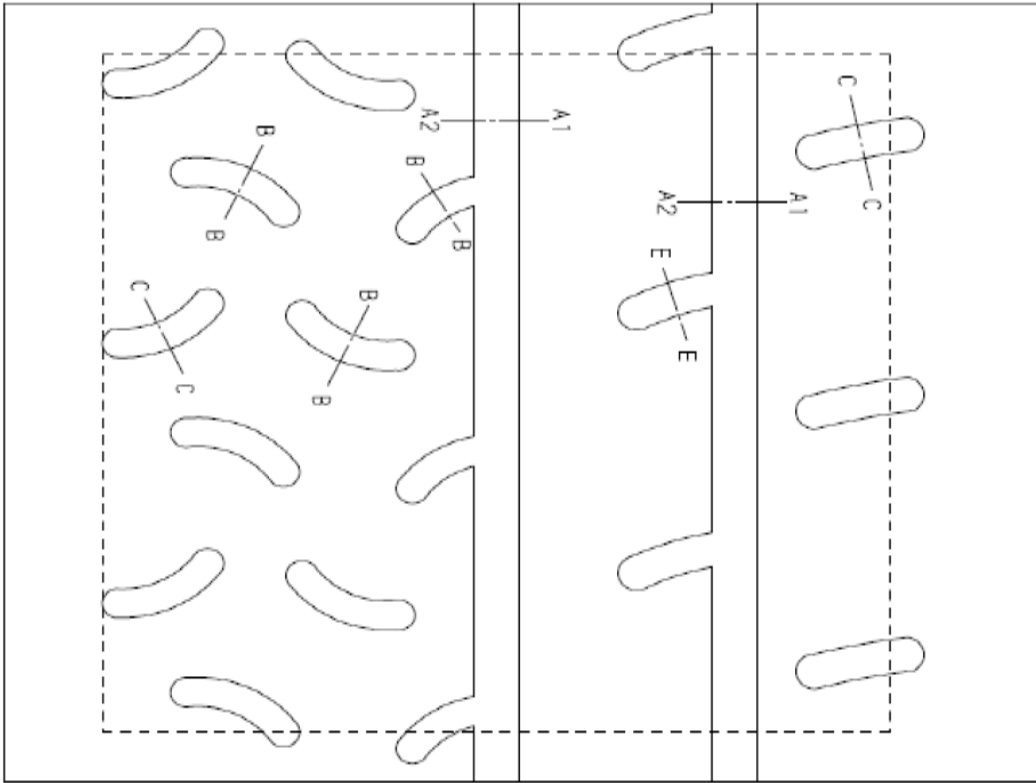
----- Control area 148X140

**PRODUCT NAME**  
**YOKOHAMA ADVAN AD51T**

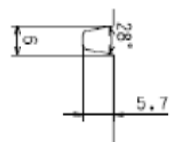
**PATTERN NAME**  
**AD51A**

**SIZE 190/600R16**

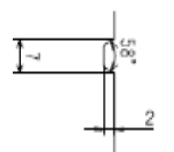
# 15" - 190/580-15



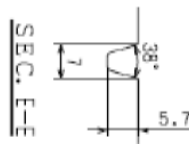
**SEC. A1-A2**



**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

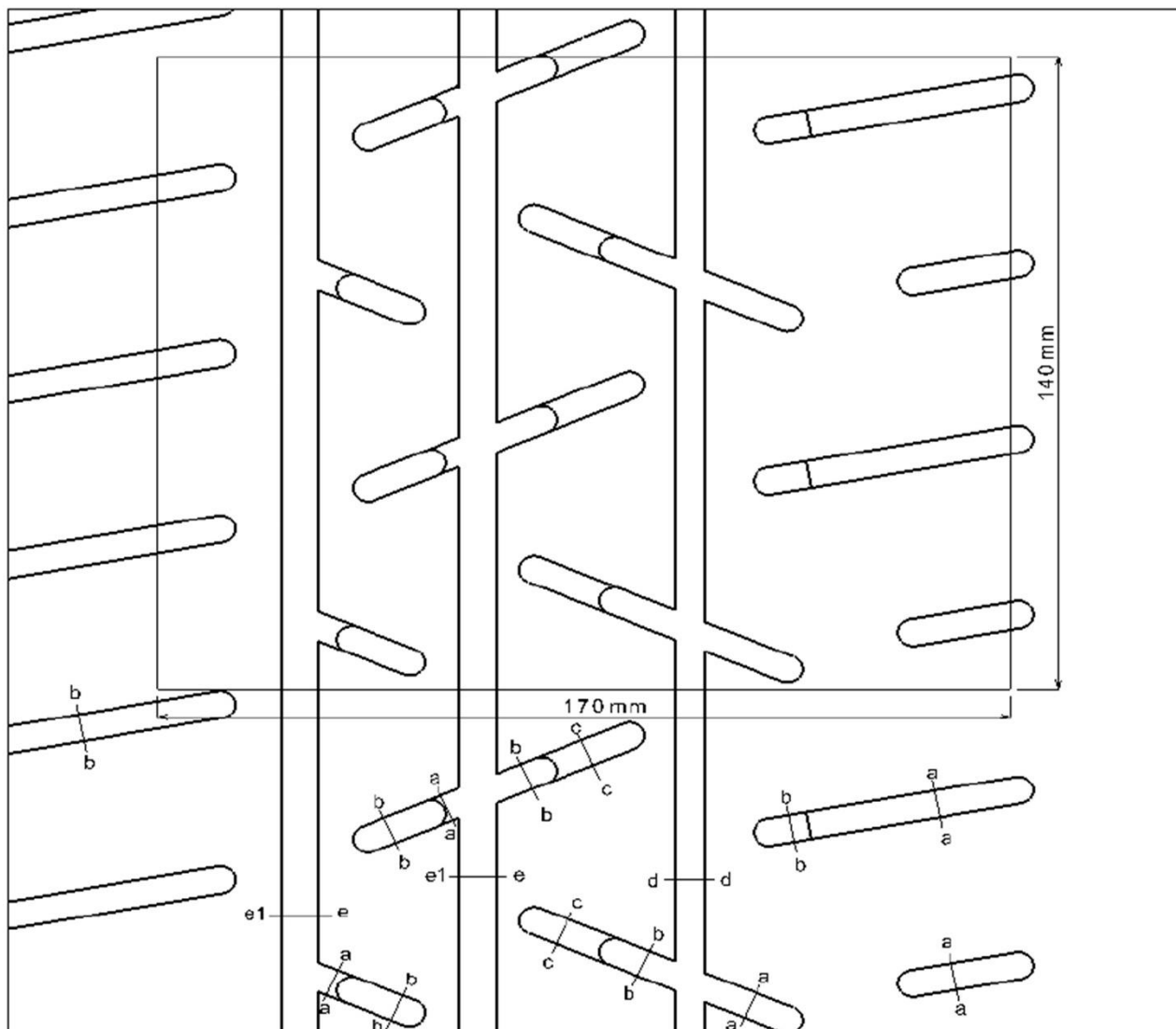
**PRODUCT NAME**  
**YOKOHAMA ADVAN A051T**

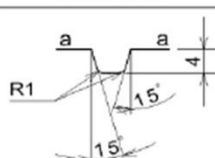
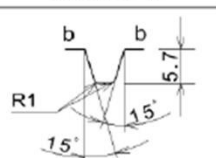
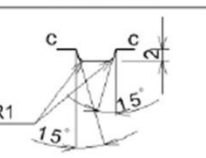

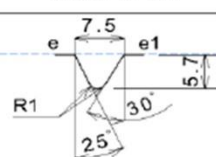
**PATTERN NAME**  
**A051A**

**SIZE 190/580R15**

# 18" - 210/650R18

Product: Ventus Z205



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

## Class 9" (Rim 8")

Empty Depth > 5.5mm : 17.07%

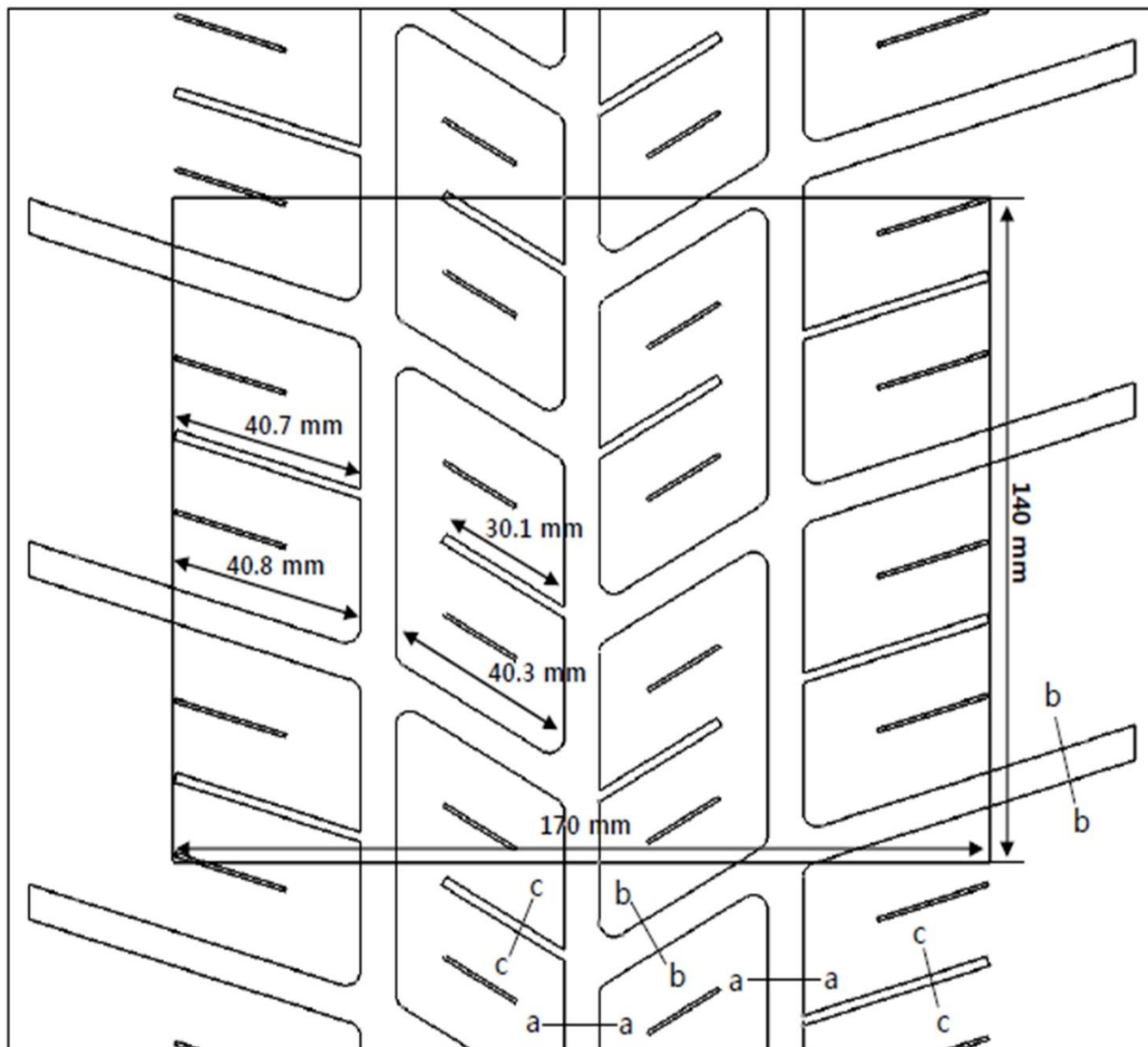
Empty Depth > 1.8mm : 23.30%

GROOVE SURFACE AREA = 554540 mm<sup>2</sup>

Control Surface = 23800 mm<sup>2</sup>

# 18" - 210/650R18

Product: Ventus Z210



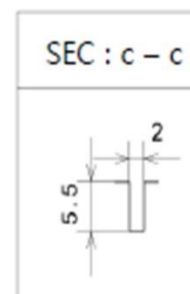
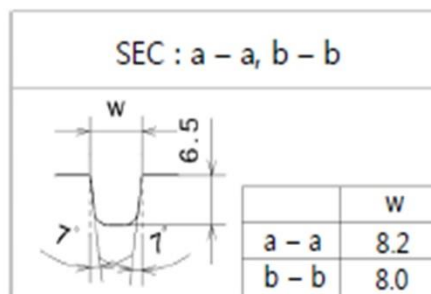
## Class 9" (Rim 8")

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 mm<sup>2</sup>



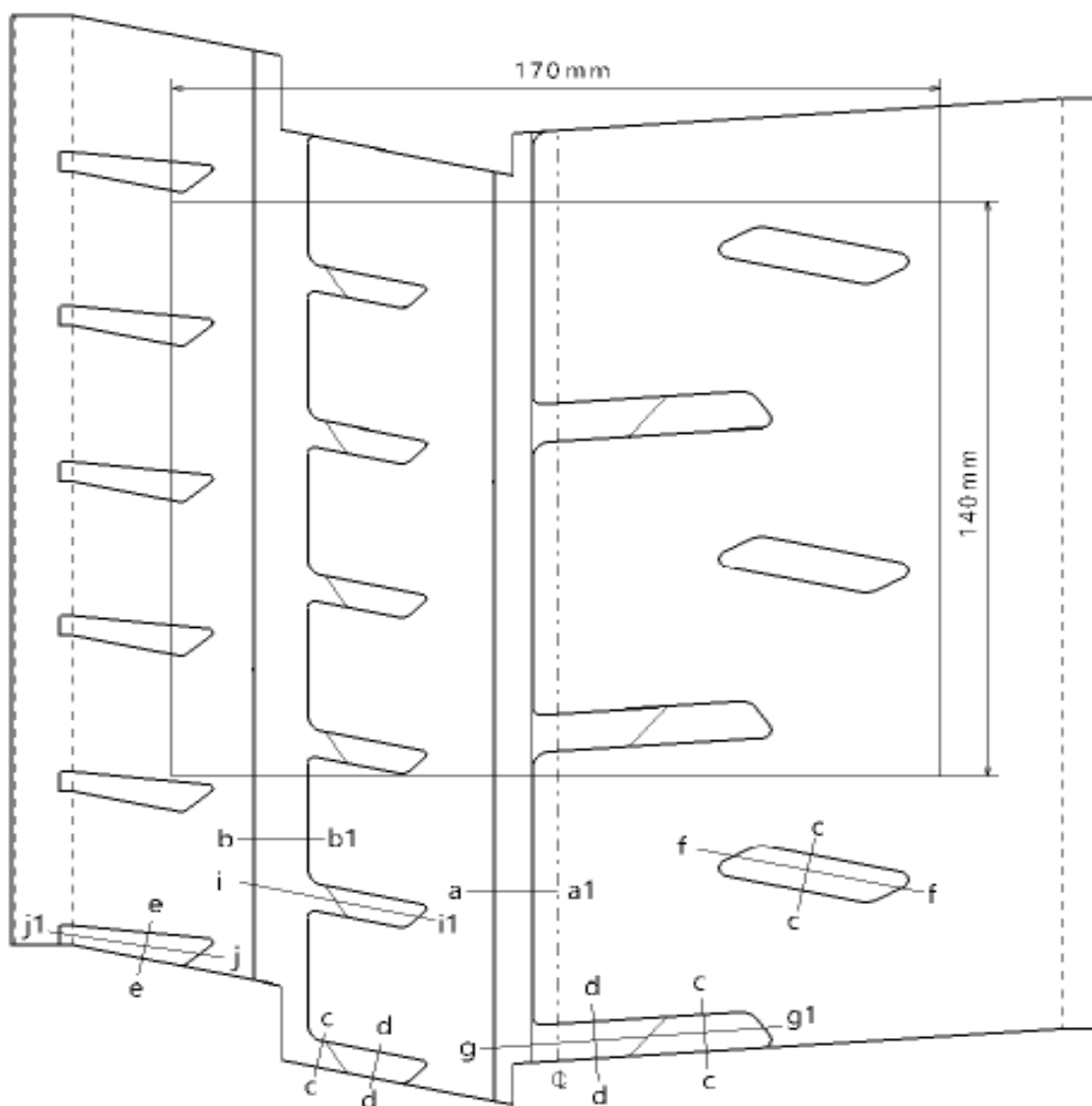
# 18" - 210/650R18

Product: Ventus Z215



**18" - 210/650R18**

Product Name : Ventus Z215

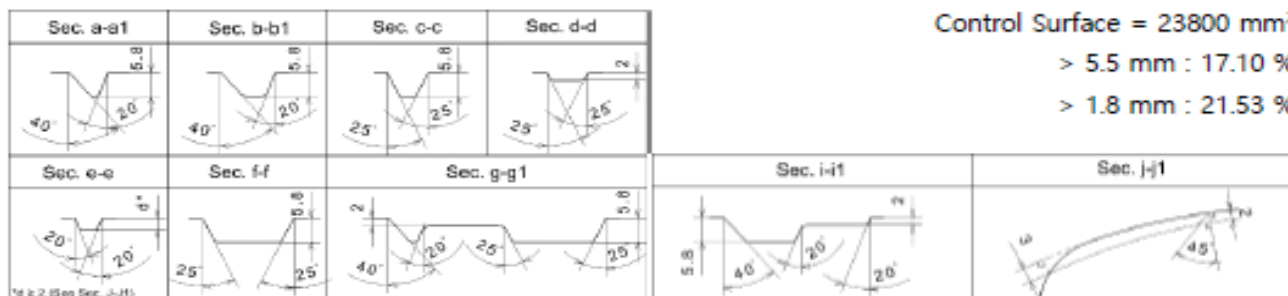


Width of Rim/Tyre Assembly : 8.5" ~ 9"

Control Surface = 23800 mm<sup>2</sup>

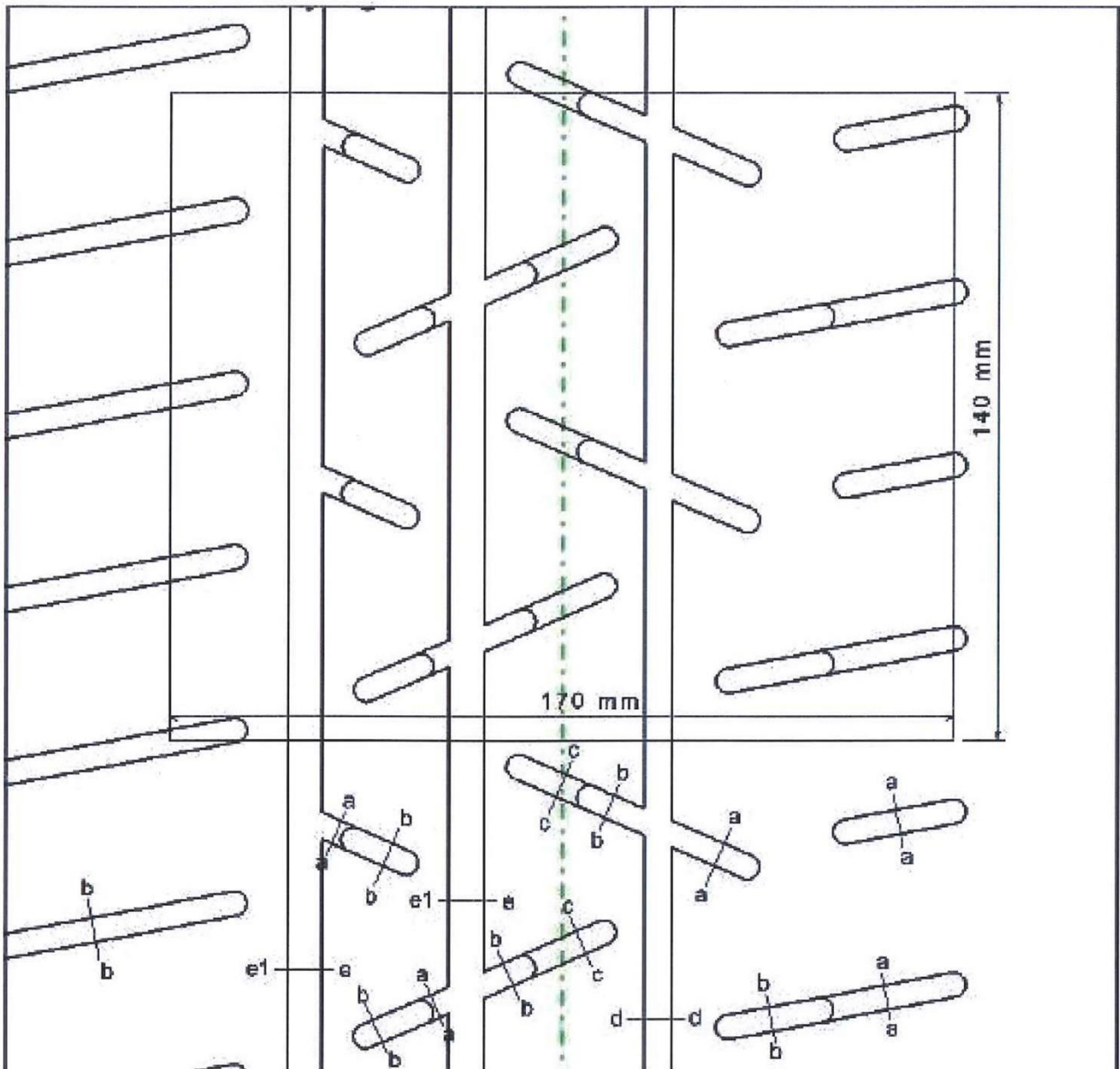
> 5.5 mm : 17.10 %

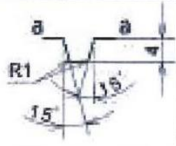
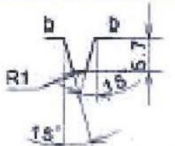
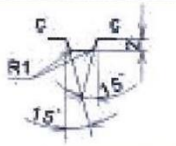
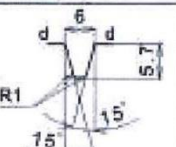
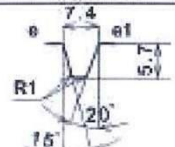
> 1.8 mm : 21.53 %



# 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")**

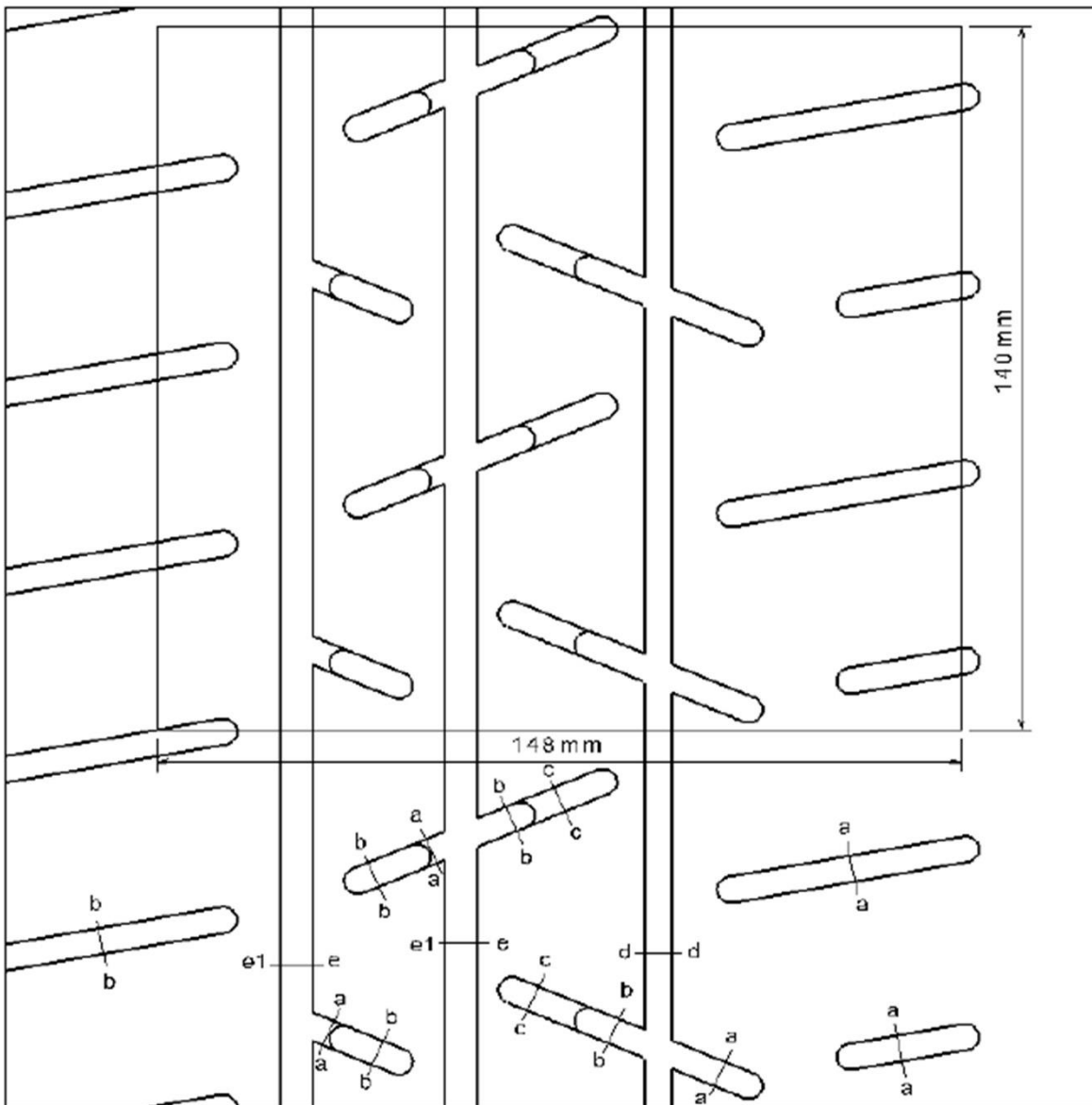
Empty Depth > 5.5mm : 17.05%

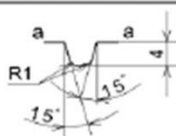

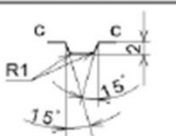
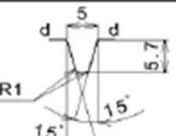
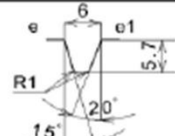
Empty Depth > 1.8mm : 25.08%

Control Surface = 23800 mm<sup>2</sup>

# 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 mm<sup>2</sup>

Control Surface = 20720 mm<sup>2</sup>



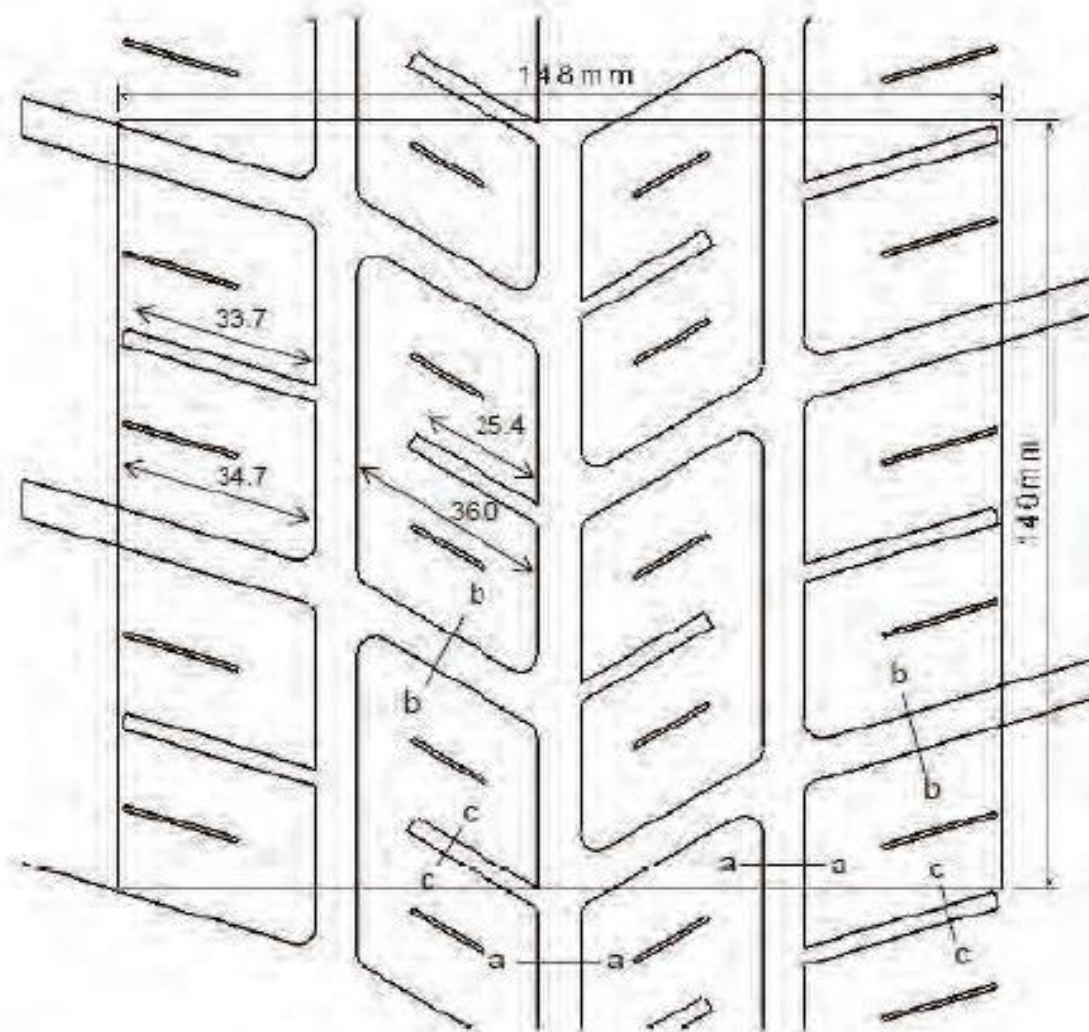
# **hankook**

## 17" - 180/625R17



17" - 180/625R17

Product : Ventus Z210



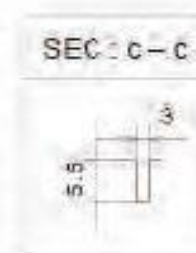
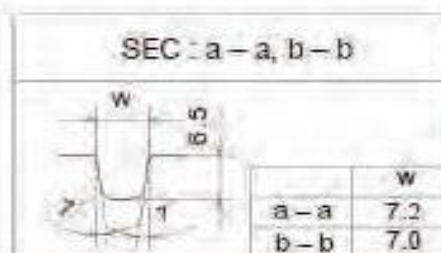
Width of Rim/Tyre Assembly : 7.5" ~ 8"

a - a groove width / depth : 7.2 mm / 6.5 mm

b - b groove width / depth : 7.0 mm / 6.5 mm

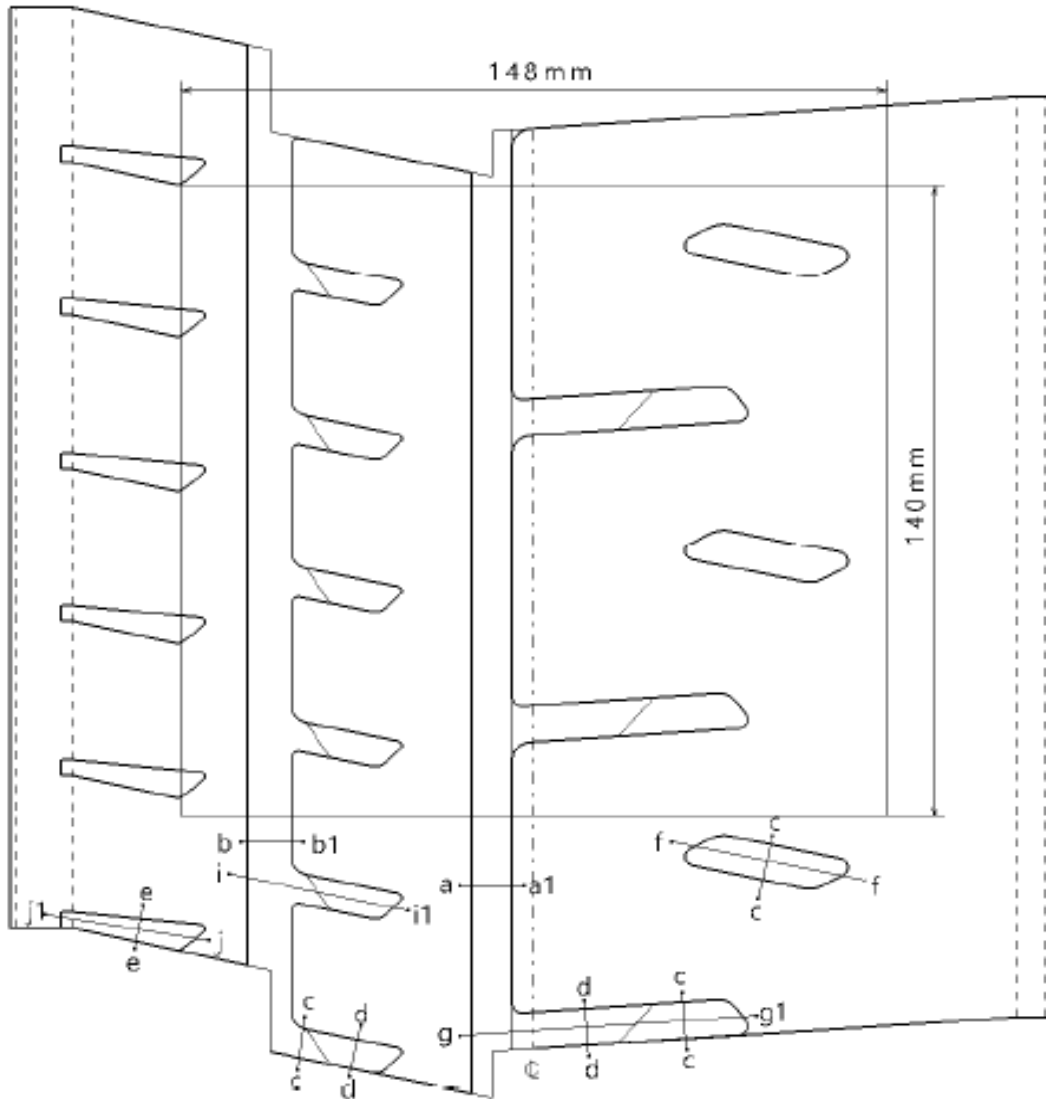
Empty Depth > 5.5mm : 27.5%

Control Surface = 20720 mm<sup>2</sup>



17" - 190/630R17

Product Name : Ventus Z215

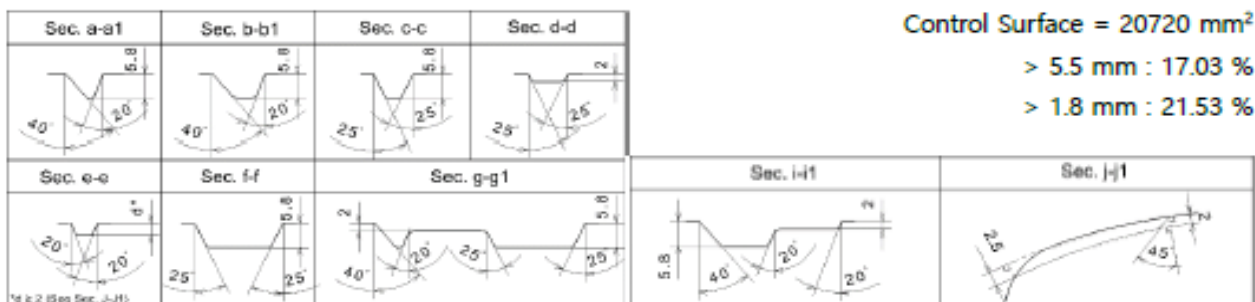


Width of Rim/Tyre Assembly : 7.5" ~ 8"

Control Surface = 20720 mm<sup>2</sup>

> 5.5 mm : 17.03 %

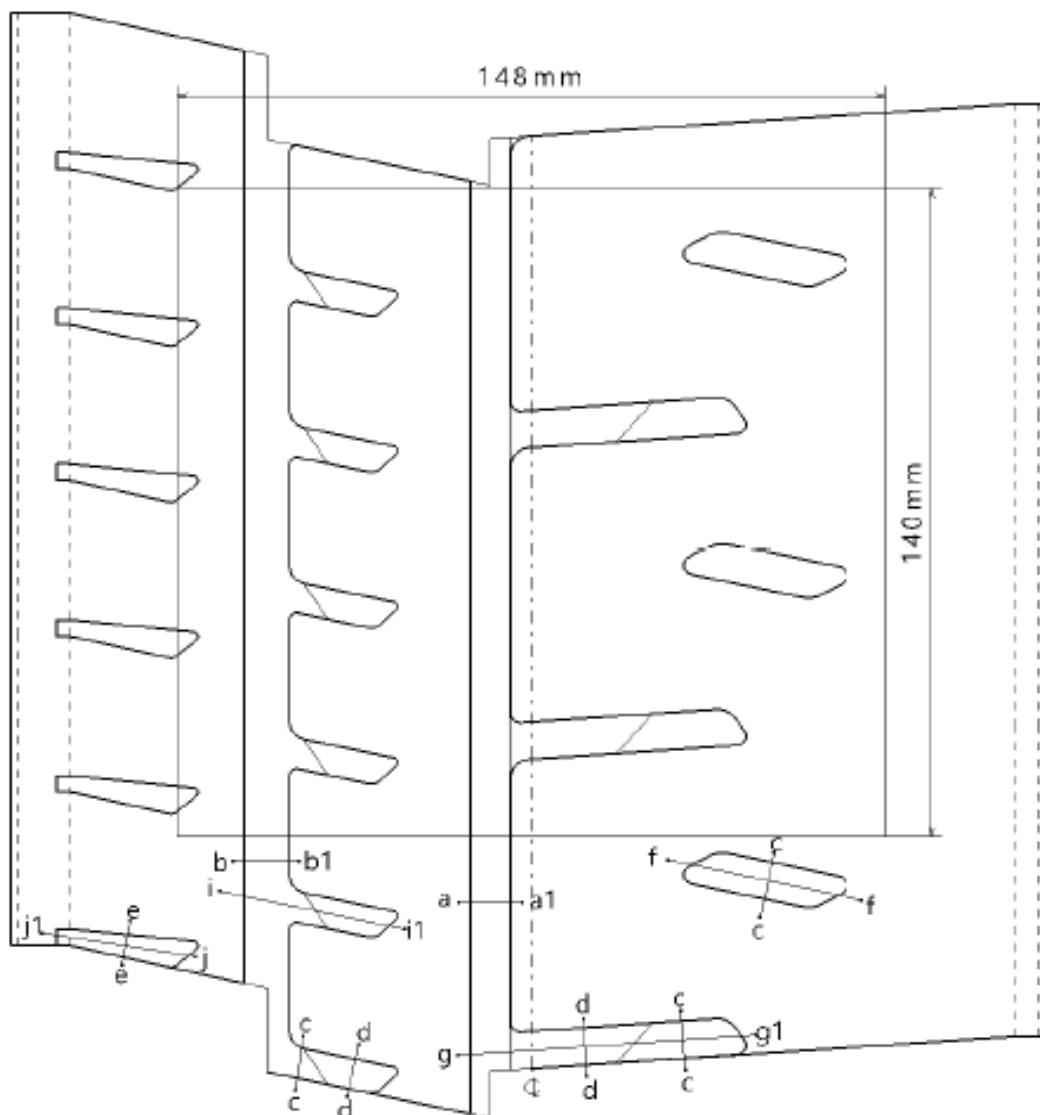
> 1.8 mm : 21.53 %



# 16" - 190/600R16

**16" - 190/600R16**

Product Name : Ventus Z215

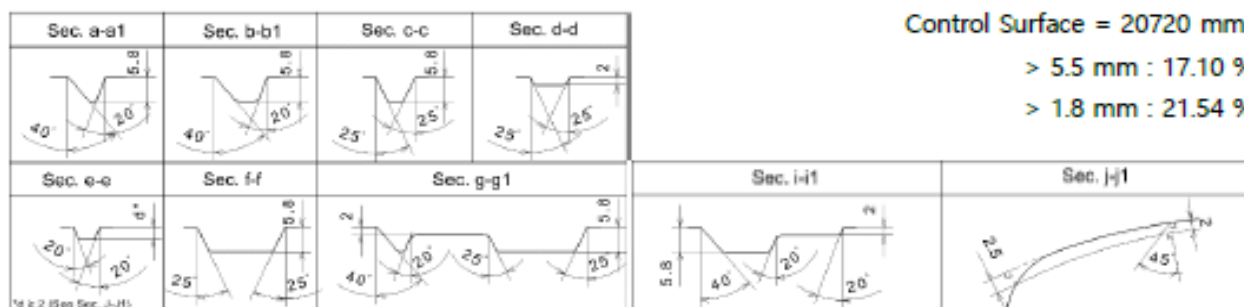


Width of Rim/Tyre Assembly : 7.5" ~ 8"

Control Surface = 20720 mm<sup>2</sup>

> 5.5 mm : 17.10 %

> 1.8 mm : 21.54 %

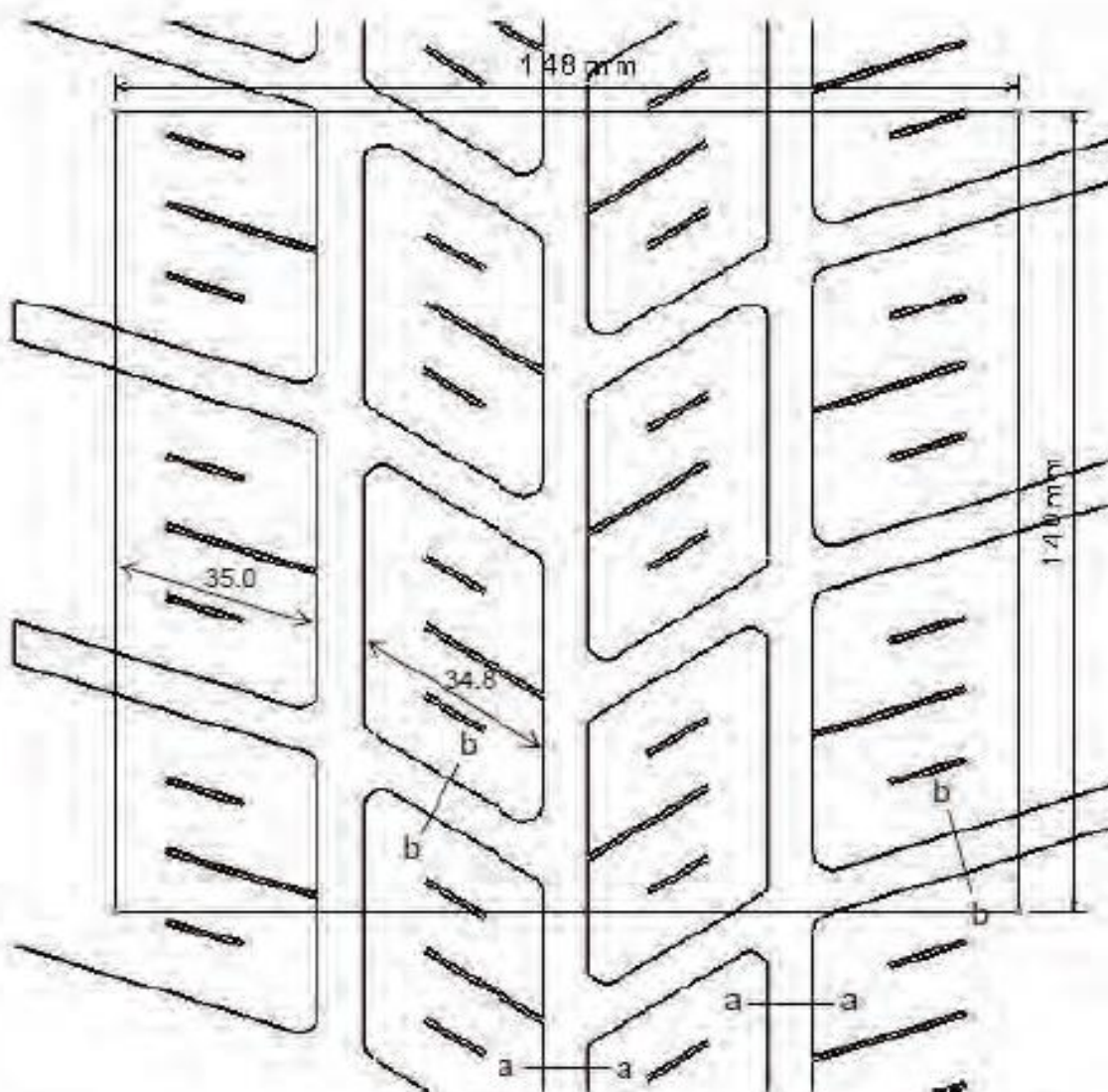


# 16" - 180/600R16



16" - 180/600R16

Product : Ventus Z210



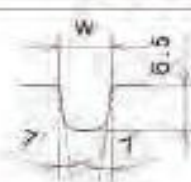
Width of Rim/Tyre Assembly : 7.5" ~ 8"

a - a groove width / depth : 7.5 mm / 6.5 mm

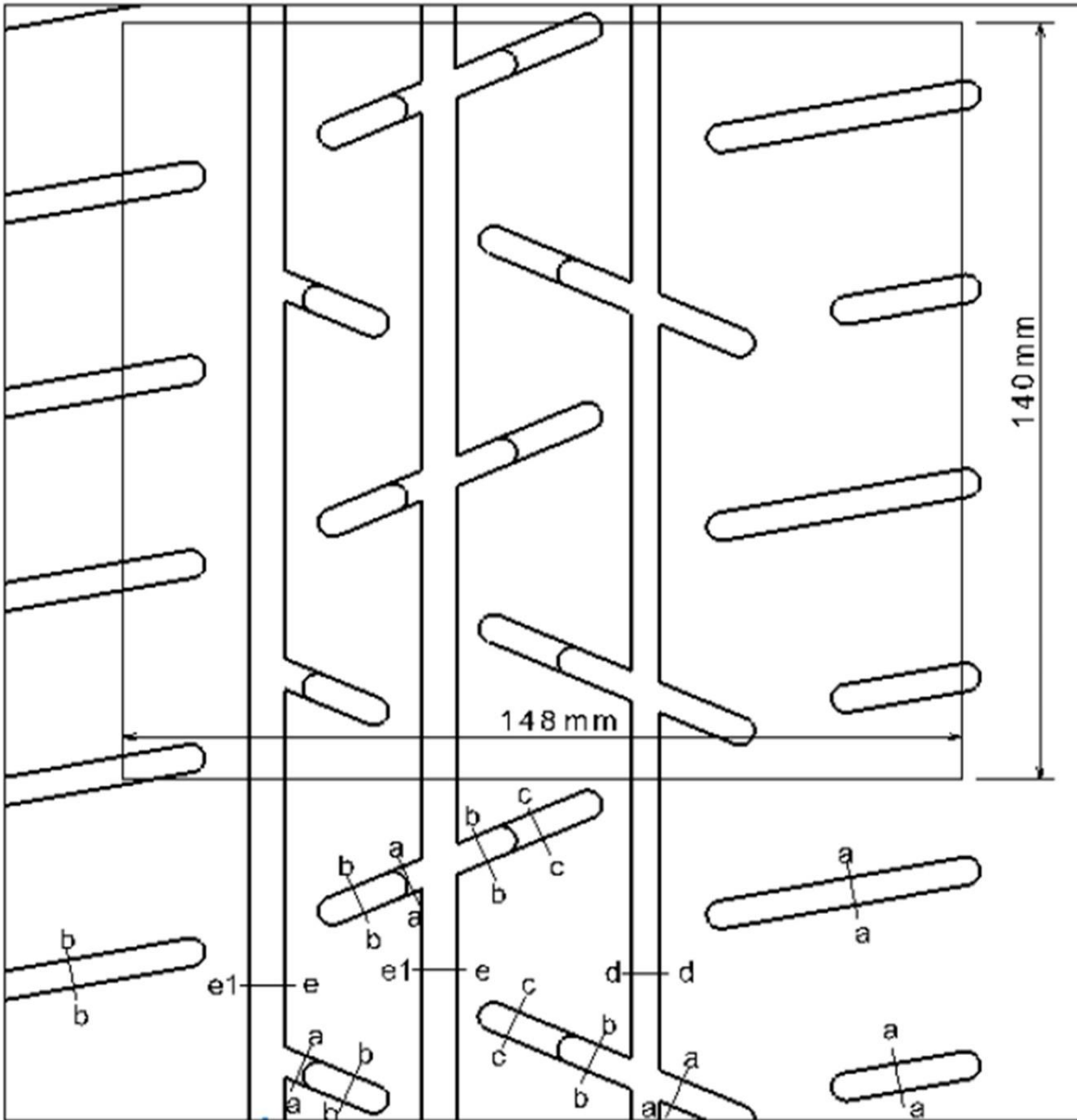
b - b groove width / depth : 7.5 mm / 6.5 mm

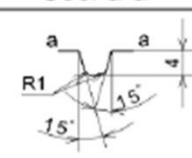
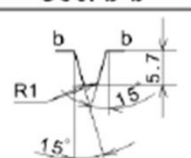
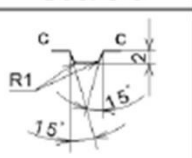
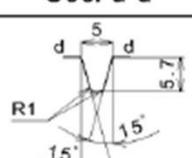
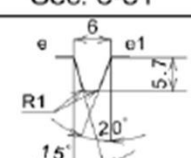
Empty Depth > 5.5mm : 27.5%

Control Surface = 20720 mm<sup>2</sup>

SEC = a - a, b - b		
		
a - a		w
b - b		w
		6.5

# 16" - 180/600R16



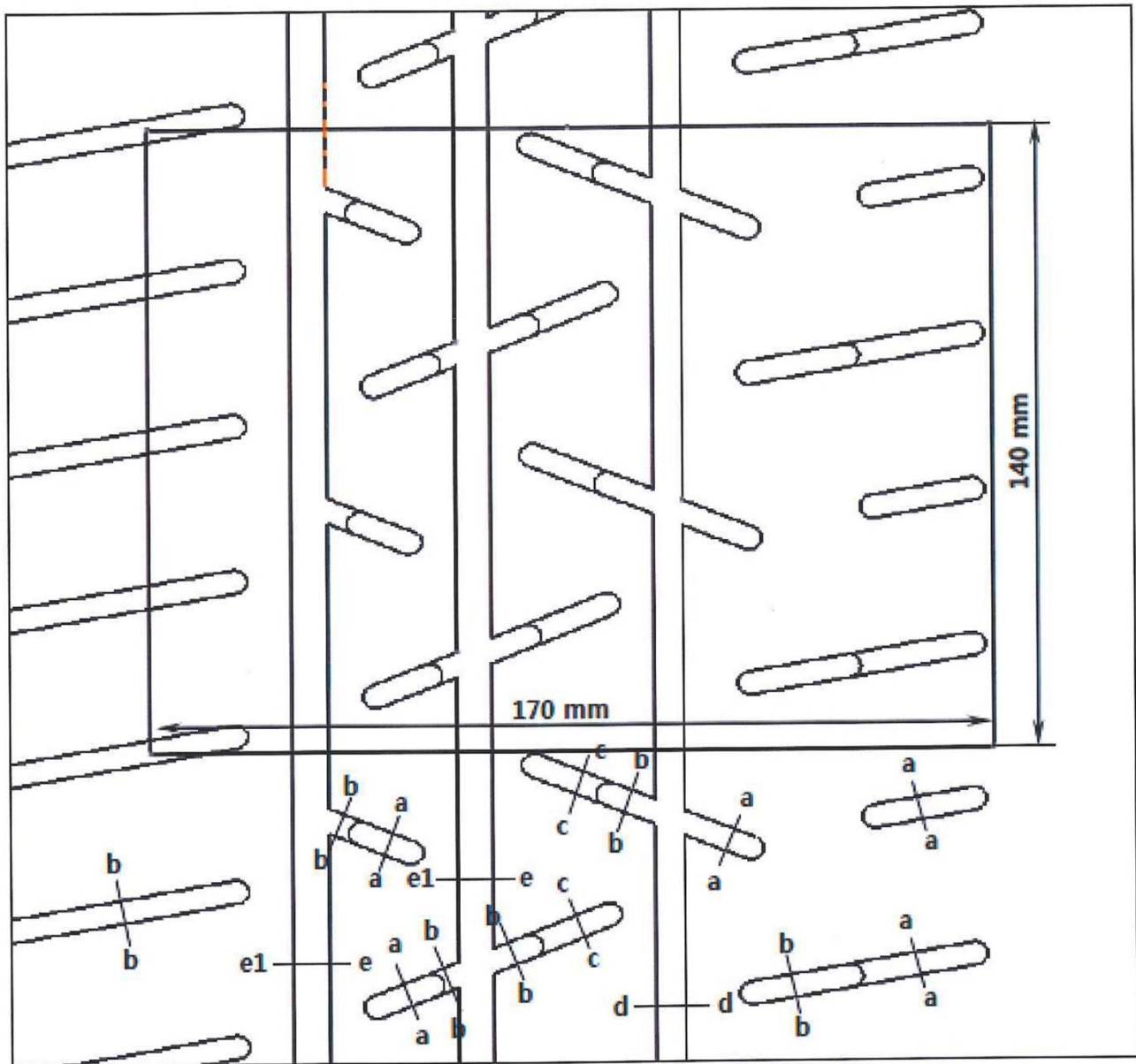
Sec. a-a	Sec. b-b	Sec. c-c
		
Sec. d-d	Sec. e-e1	
		

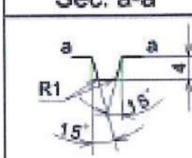
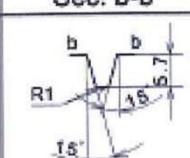
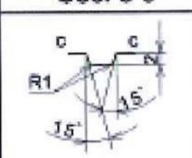
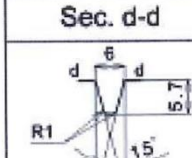
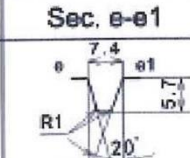
## Class 8" (Rim 6.5")

Empty Depth > 5.5mm : 17.30%  
 Empty Depth > 1.8mm : 22.95%

GROOVE SURFACE AREA = 358456 mm<sup>2</sup>  
 Control Surface = 20720 mm<sup>2</sup>

# 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 mm<sup>2</sup>



# 18" - 210/645R18

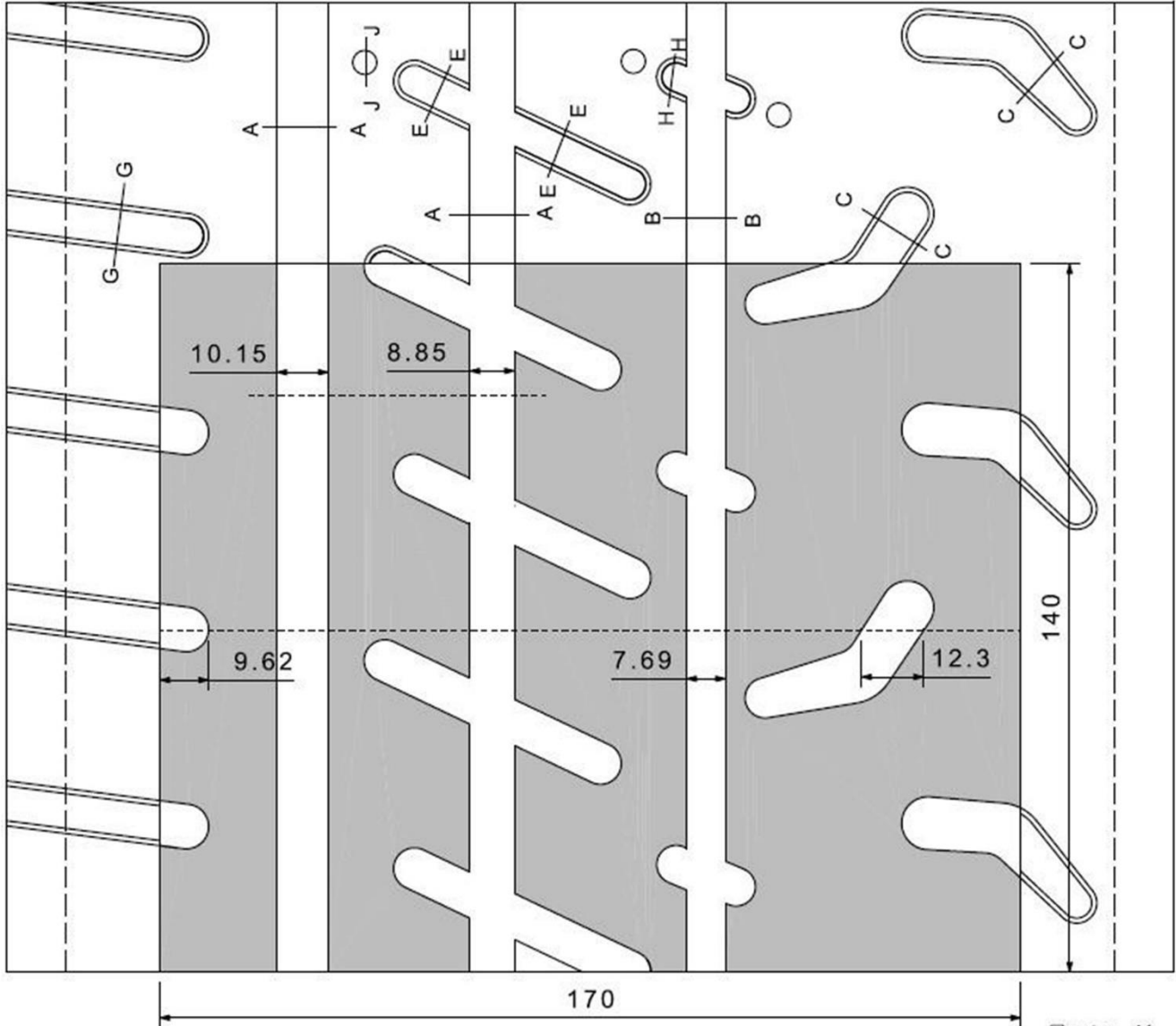
Moulded tyre for FIA homologation

Size : 210/645R18

Pattern : TM01

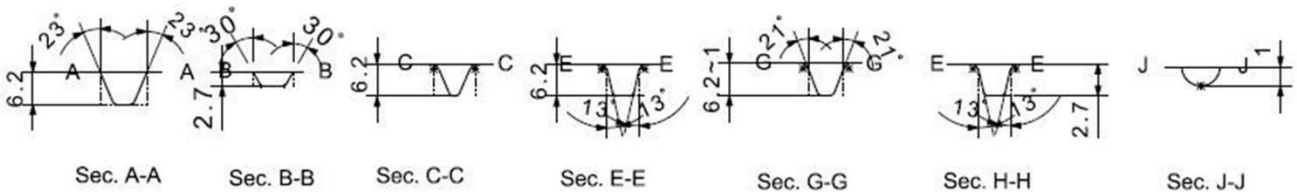
On the basis of a tread pattern width of 170mm and circumference of 140mm

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



Groove Area by 170 x 140 at least 1.8mm deep : 5815.4mm<sup>2</sup>  
 Void % : 24.4%  
 Groove Area by 170 x 140 at least 5.5mm deep : 4580.7mm<sup>2</sup>  
 Void % : 19.2%

Scale: 1:1





# KUMHO TYRES

## 18" - 210/645R18

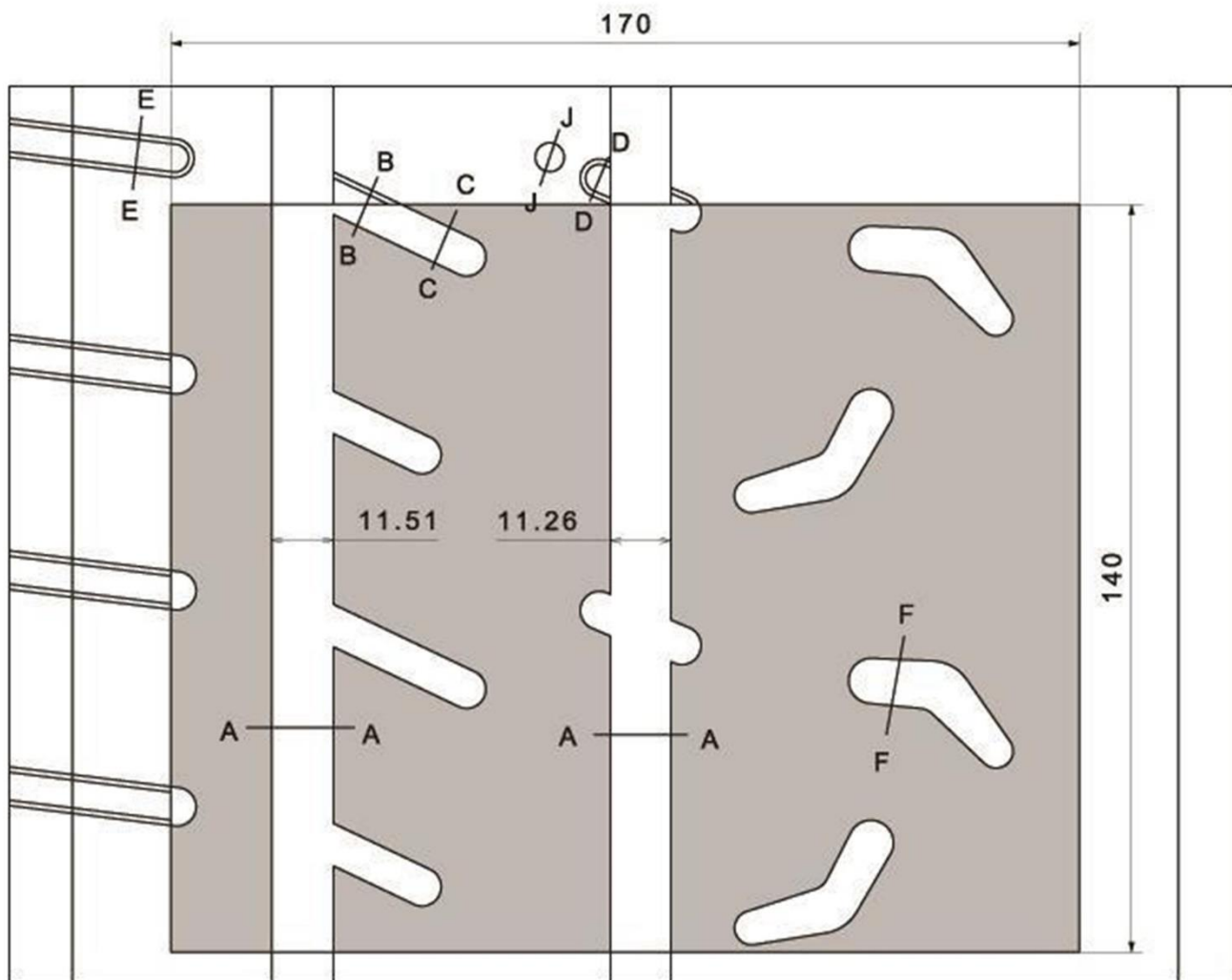
Moulded tyre for FIA homologation

Size : 210/645R18

Pattern : TM02

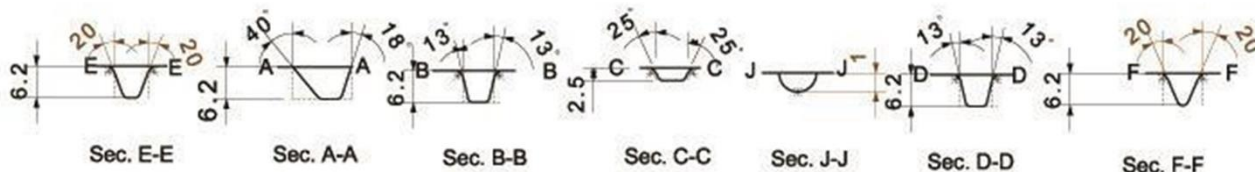
On the basis of a tread pattern width of 170mm and circumference of 140mm

- 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 : 5159mm<sup>2</sup>  
 Void % : 21.7%  
 Groove Area by 170 x 140 at least 5.5mm deep : 4446mm<sup>2</sup>  
 Void % : 18.7%





# 18" - 210/645R18

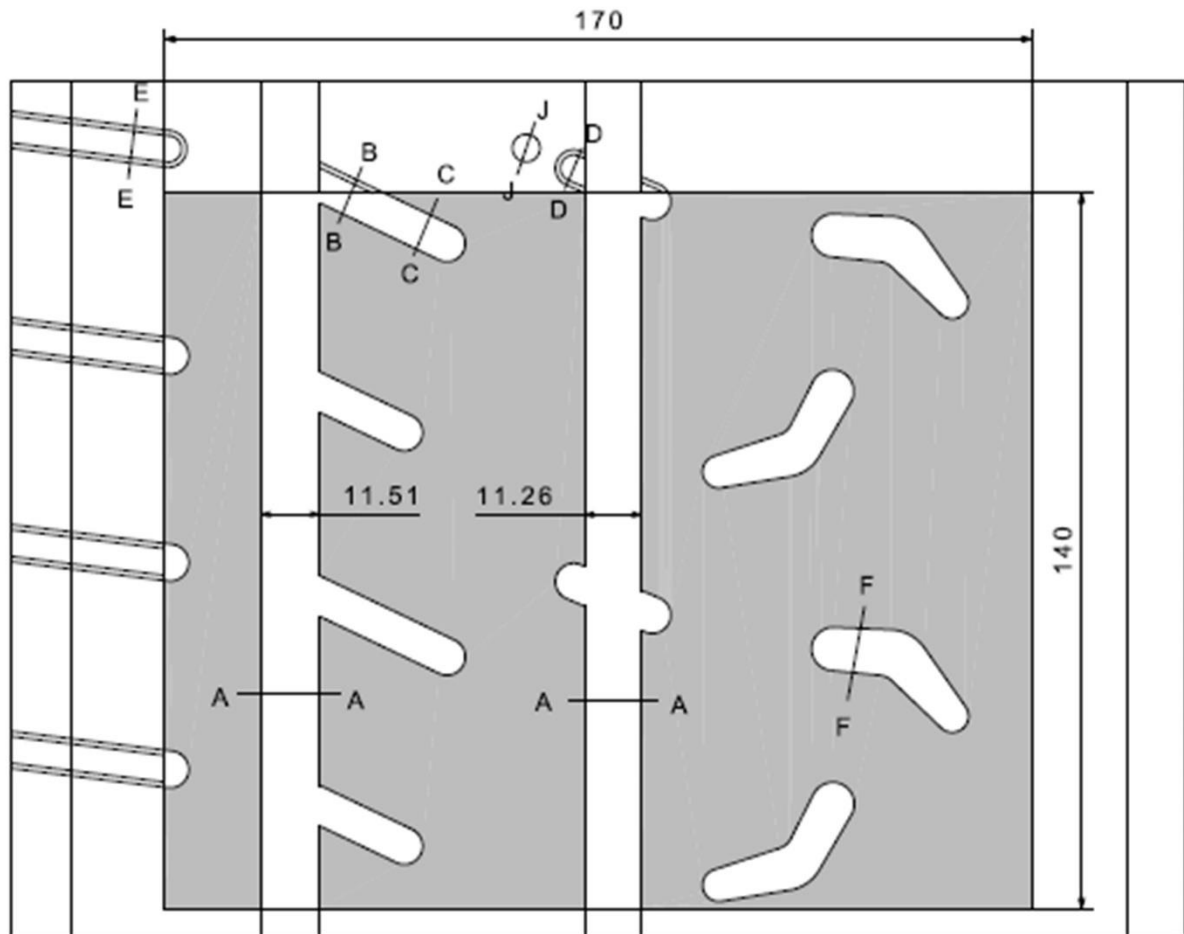
Moulded tyre for FIA homologation

Size : 210/645R18

Pattern : TM02

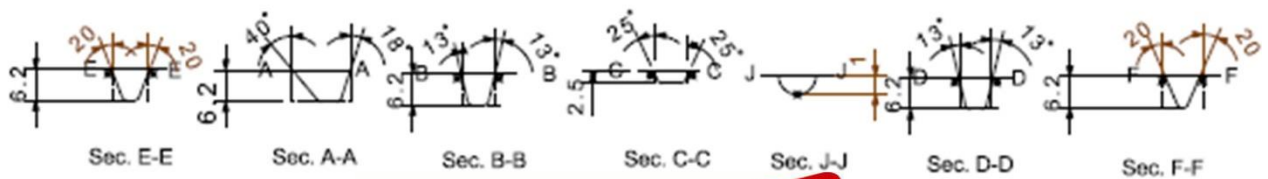
On the basis of a tread pattern width of 170mm and circumference of 140mm

- 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 : 5159mm<sup>2</sup>  
 Void % : 21.7%  
 Groove Area by 170 x 140 at least 5.5mm deep : 4446mm<sup>2</sup>  
 Void % : 18.7%



# 18" - 210/645R18

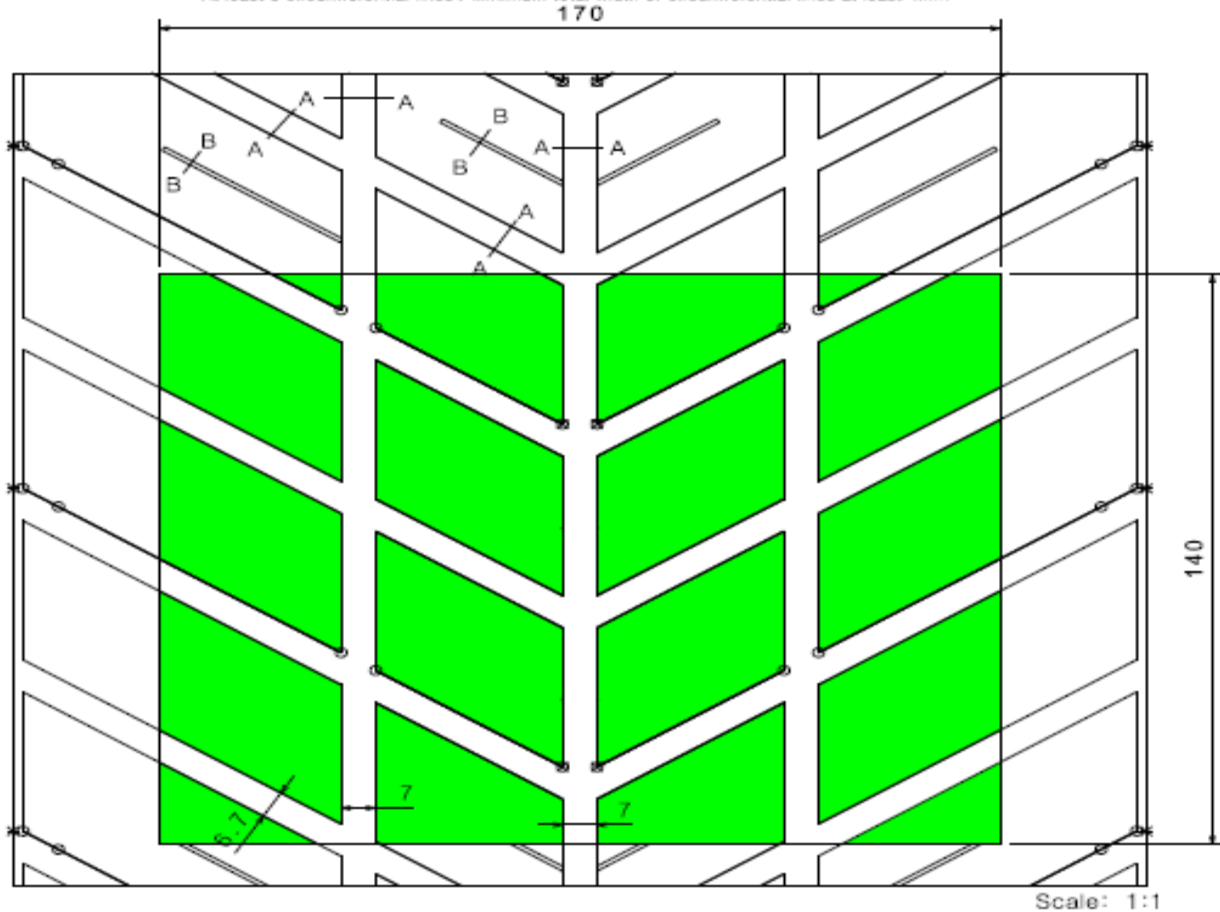
## KUMHO TIRE

Moulded tyre for FIA homologation

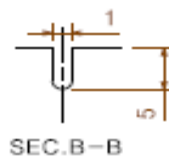
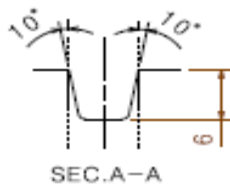
Size : 210/645R18

Pattern : TW03

- On the basis of a tread pattern width of 170mm and circumference of 140mm
- The surface taken up by grooves at least 5.5mm deep must occupy at least 27.5% of the total surface.
  - The sum of the width of the grooves encountered by a radial line must be at least 16mm
  - At least 3 circumferential lines / Minimum total width of circumferential lines at least 4mm



Groove Area by 170 x 140 at least 5.5mm deep : 6789.4mm<sup>2</sup>  
Void % : 28.5%



KUMHO TYRES



# 17" - 190/630R17

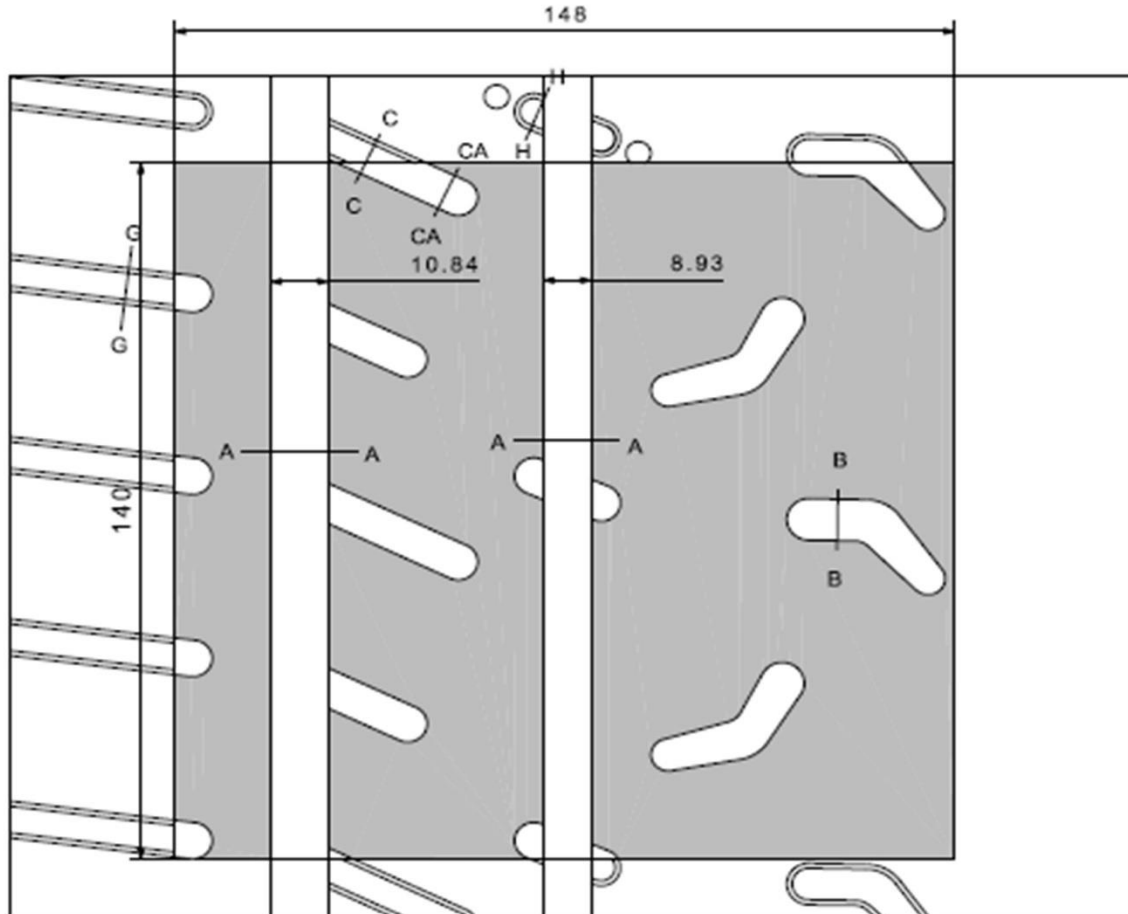
Moulded tyre for FIA homologation

Size : 190/630 R17

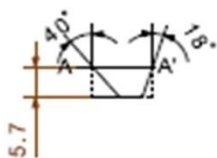
Pattern : TM02

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

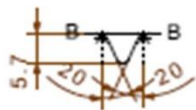
- The surface taken up by grooves at least 5.5 mm deep, with a maximum angle of 60° between the block in section and 2mm wide, must occupy at least 17% of the total surface.
- The surface taken up by grooves at least 1.8 mm deep, with a maximum angle of 60° between the block in section and 2mm wide,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



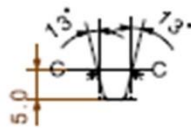
Groove Area by 148 x 140 at least 1.8mm deep : 4579.1mm<sup>2</sup>  
 Void % : 22.1%  
 Groove Area by 148 x 140 at least 5.5mm deep : 3688.1mm<sup>2</sup>  
 Void % : 17.8%



Sec. A-A'



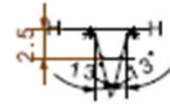
Sec. B-B



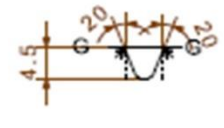
Sec. C-C



Sec. CA-CA



Sec. H-H



Sec. G-G

 KUMHO TYRES

# 16" - 190/600R16

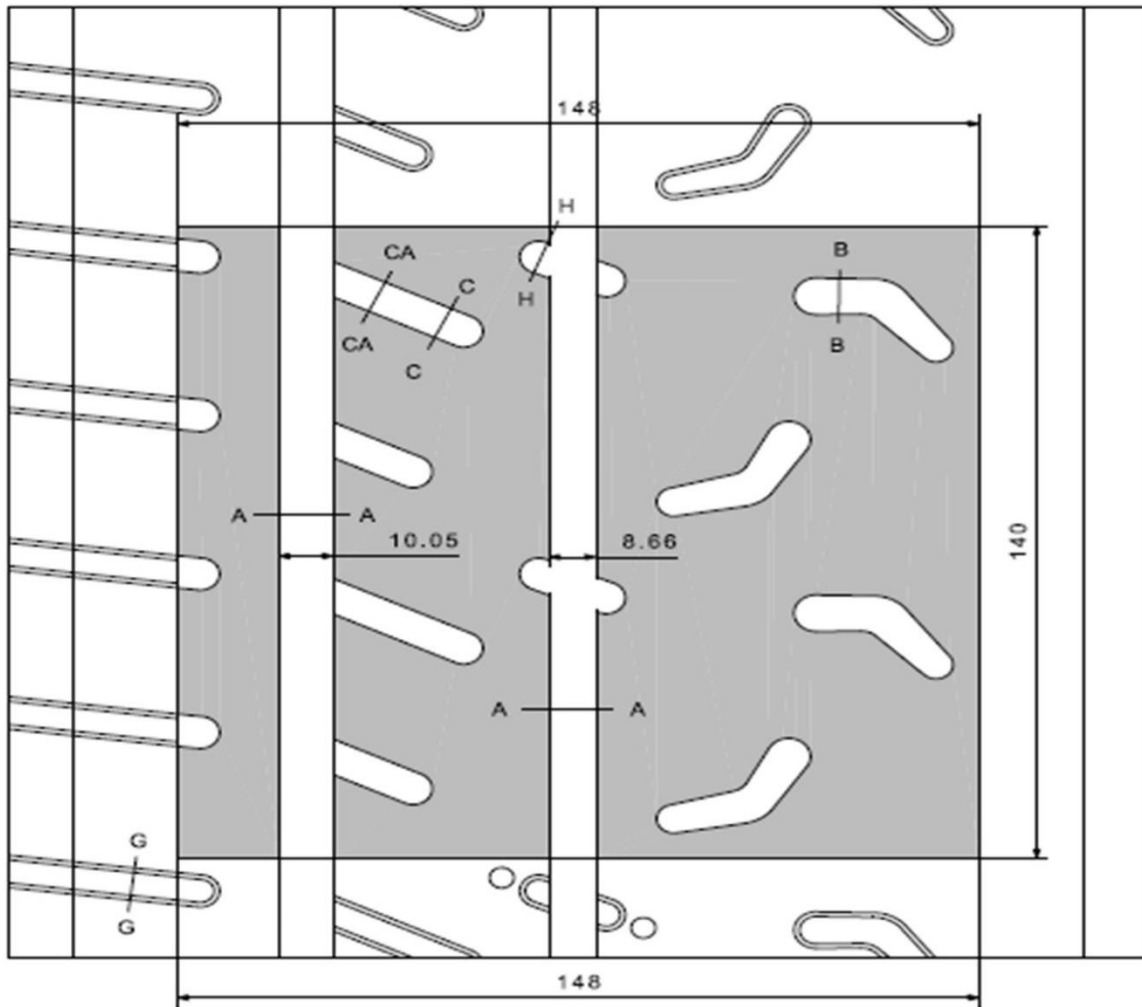
Moulded tyre for FIA homologation

Size : 190/600 R16

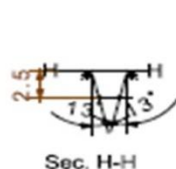
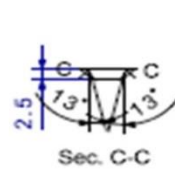
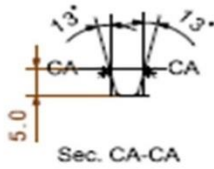
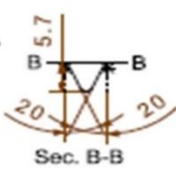
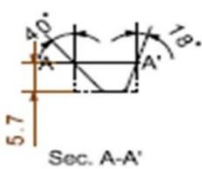
Pattern : TM02

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 : 4579.1mm<sup>2</sup>  
 Void % : 22.1%  
 Groove Area by 148 x 140 at least 5.5mm deep : 3584.5mm<sup>2</sup>  
 Void % : 17.3%



**KUMHO TYRES**

# 15" - 180/580R15

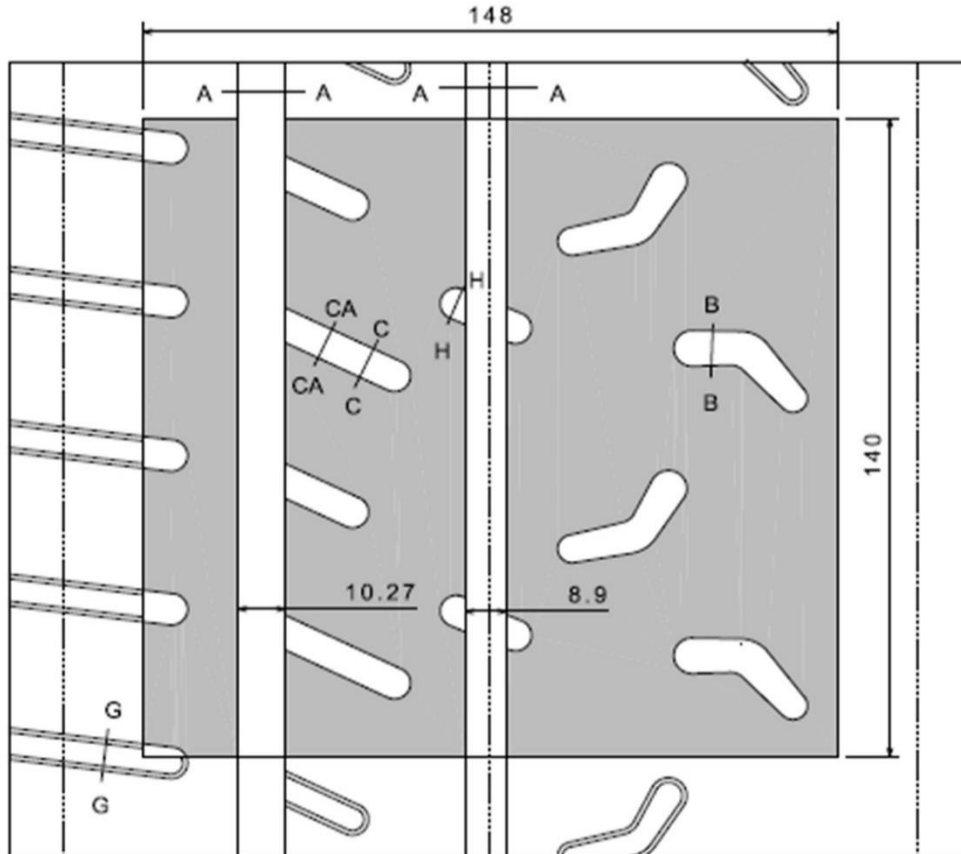
Moulded tyre for FIA homologation

Size : 180/580 R15

Pattern : TM02

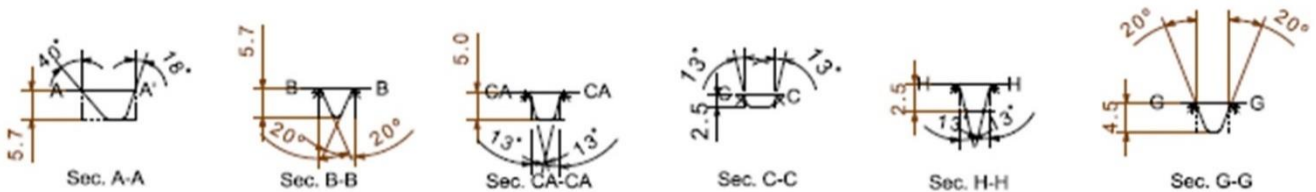
On the basis of a tread pattern width of 148mm and circumference of 140mm

- 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

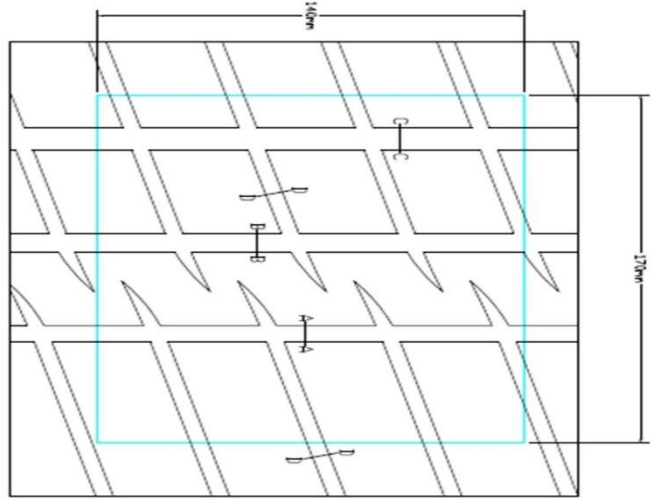
Groove Area by 148 x 140 at least 1.8mm deep : 4599.8mm<sup>2</sup>  
 Void % : 22.2%  
 Groove Area by 148 x 140 at least 5.5mm deep : 3563.8mm<sup>2</sup>  
 Void % : 17.2%



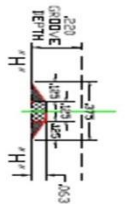
# Hoosier

RACING TIRE

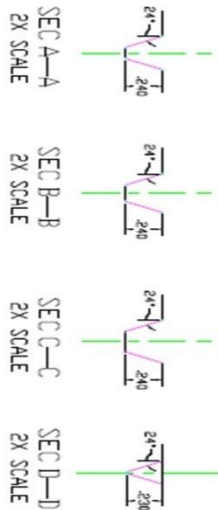
# 18" - 225/40R18



CONTROL SURFACE = 23,800mm<sup>2</sup>  
 GROOVES >5.5mm DEEP = 6,686.4mm<sup>2</sup> = 28.07%



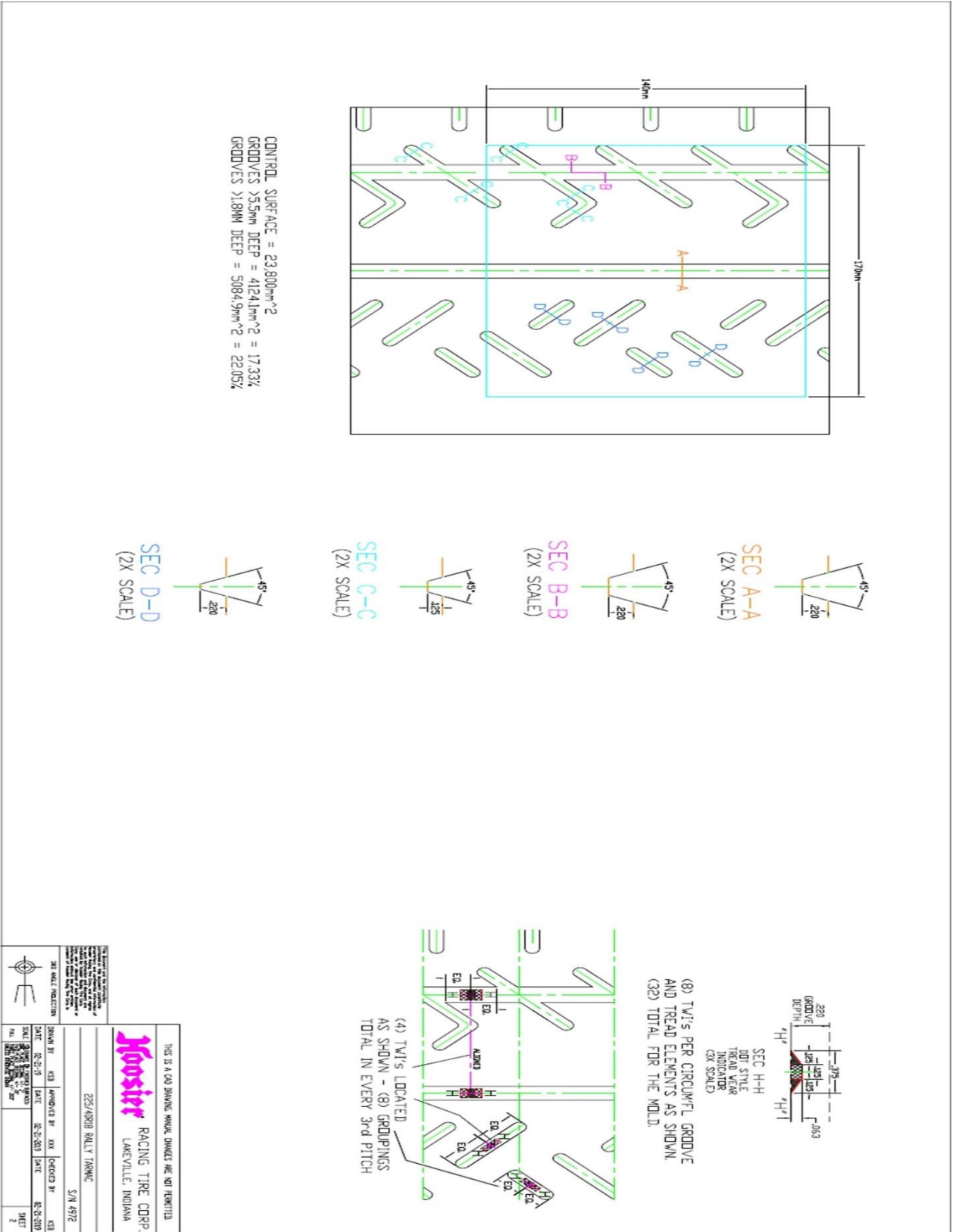
(B) TWIS PER CIRCUMFL GROOVE  
 AND TREAD ELEMENTS AS SHOWN.  
 (24) TOTAL FOR THE MOLD.



HOOSIER RACING TIRE CORP. LAFAYETTE, INDIANA	
225/40R18 THUMB RALLY	
PART NO.	5A 4993
DATE	DATE
DRAWN BY	CHECKED BY
DATE	DATE
FILE	3421



# 18" - 225/40R18

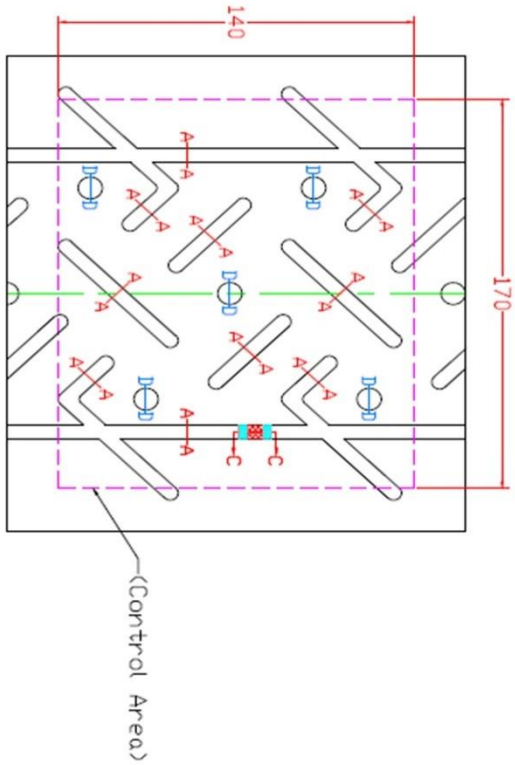


# Hoosier

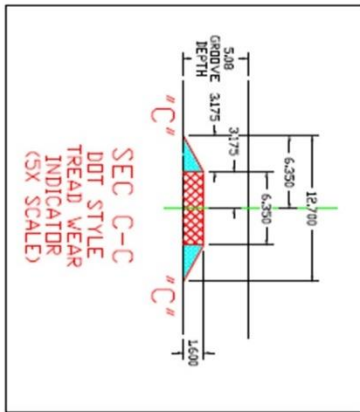
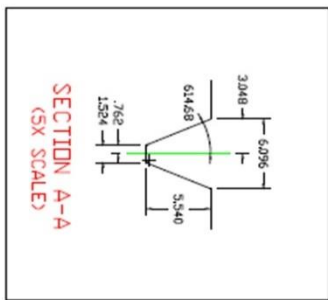
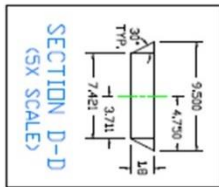
RACING TIRE

# 18" - 200/650R18

(UNITS = METRIC)



CONTROL SURFACE = 23,800mm<sup>2</sup>  
 GROOVES > 5.5mm = 4,797.71mm<sup>2</sup> = 20.16%  
 GROOVES > 1.8mm = 5,152.09mm<sup>2</sup> = 21.65%



3RD ANGLE PROJECTION

THIS IS A CAD DRAWING. MANUAL CHANGES ARE NOT PERMITTED.  
**Hoosier** RACING TIRE CORP.  
 LAKEVILLE, INDIANA  
 F.I.A. COMPLIANCE FOR '200/650R18'  
 ROAD RALLY

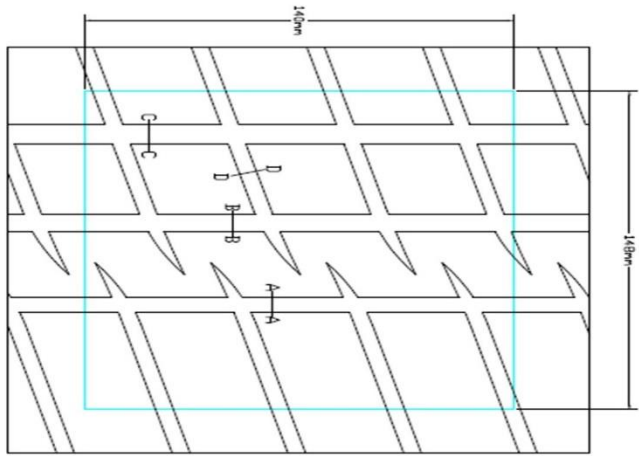
REV 1					
DATE	02/06/2015	DATE	XX/XX/XXXX	DATE	XX/XX/XXXX
SCALE		SCALE		SCALE	
DRAWN BY	THE APPROVED BY	XXX	CHECKED BY	XXX	
S/N	4770				
SHEET 2 OF 2					

# Hoosier

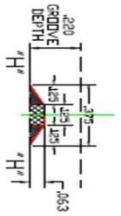
RACING TIRE



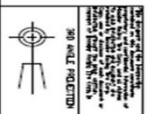
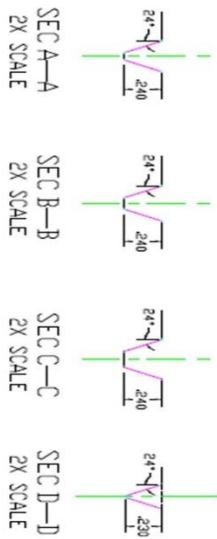
# 17" - 195/50R17



CONTROL SURFACE =  $20,720\text{mm}^2$   
 GROOVES  $35,5\text{mm}$  DEEP =  $5,967,3\text{mm}^2 = 28,80\%$



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



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

**Hoosier** RACING TIRE CORP.  
 LAKEVILLE, INDIANA

195/50R17 TREAD PATTERN

S/N 4995

DESIGNED BY	138	APPROVED BY	
DATE	02-2-2021	DATE	
SCALE	1:1	SCALE	
FILE	195 50R17 TREAD		

NO MOLD PROJECTION

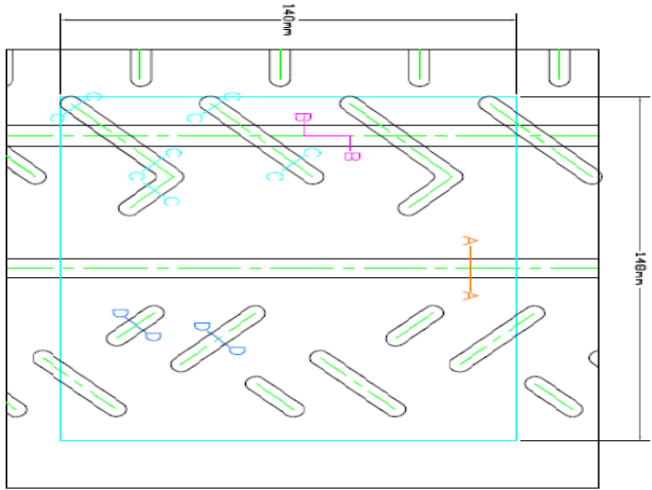
DATE: 02-2-2021

SHEET 1

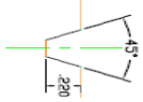
# Hoosier

RACING TIRE

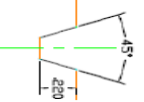
# 17" - 195/50R17



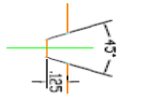
CONTROL SURFACE = 20,720mm<sup>2</sup>  
 GROOVES >55mm DEEP = 36177mm<sup>2</sup> = 17.46%  
 GROOVES >18MM DEEP = 46382mm<sup>2</sup> = 22.39%



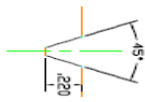
SEC A-A  
(2X SCALE)



SEC B-B  
(2X SCALE)



SEC C-C  
(2X SCALE)

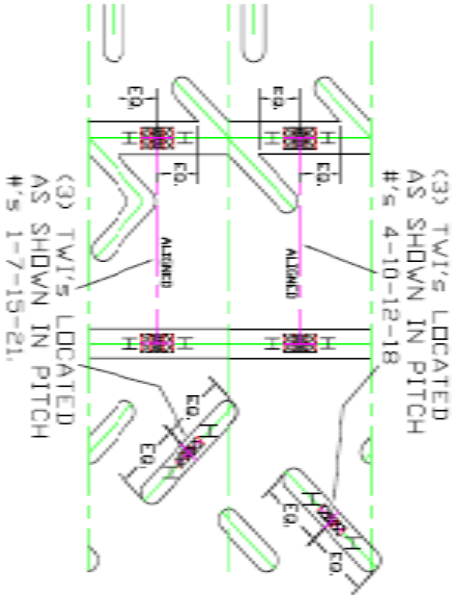


SEC D-D  
(2X SCALE)



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

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



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

**Hoosier** RACING TIRE CORP.  
 LAKEVILLE, INDIANA

195/50R17 TARMAC RALLY

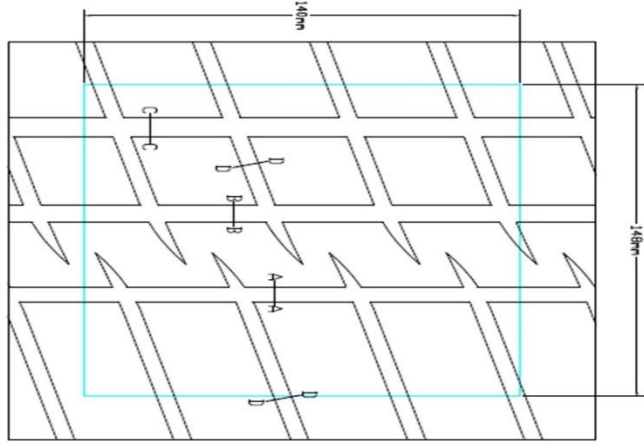
5/14 4287

DESIGN BY	REV	APPROVED BY	DATE	CHECKED BY	DATE
SCALE	DATE	SCALE	DATE	SCALE	DATE
FULL	DATE	DATE	DATE	DATE	DATE

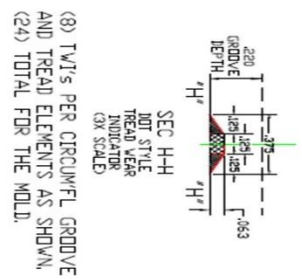
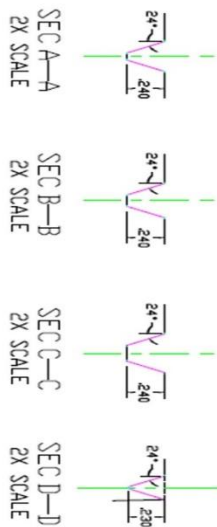
SHEET 1



# 16" - 195/50R16



CONTROL SURFACE =  $20,720\text{mm}^2$   
 GROOVES 35.5mm DEEP =  $59,718\text{mm}^2$  = 28.82%



THIS IS A ONE BRAND MAJOR CHANGES ARE NOT PERMITTED.

**Hoosier** RACING TIRE CORP.  
 LAKEVILLE, INDIANA

195/50R16 TRIMAC RALLY

S/N: 4956

DESIGNED BY	ESB	APPROVED BY	
DATE	07-2-2013	DATE	
CHECKED BY		DATE	

300 MADE INDICATED

DATE: 07-2-2013

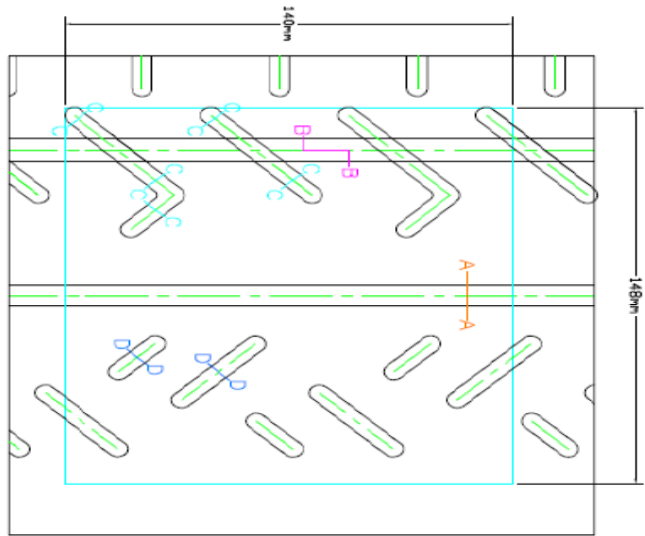
FILE: 16" 195/50R16 TRIMAC RALLY

SHEET 1

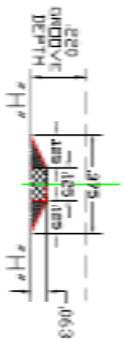
# Hoosier

RACING TIRE

# 16" - 195/50R16

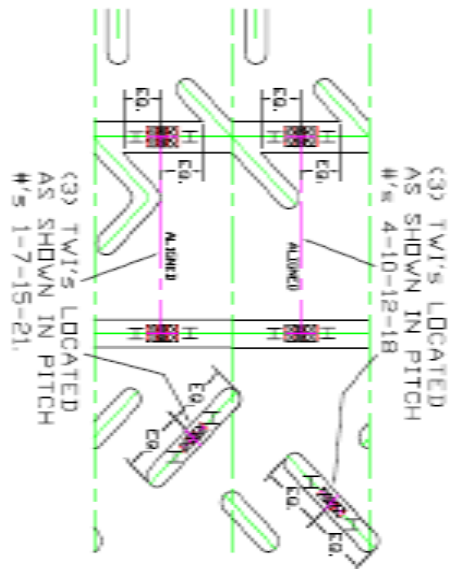


CONTROL SURFACE = 20,720mm<sup>2</sup>  
 GROOVES >5.5mm DEEP = 3617.7mm<sup>2</sup> = 17.46%  
 GROOVES >1.8MM DEEP = 4638.2mm<sup>2</sup> = 22.39%



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

(8) TWI'S PER CIRCUMF'L 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

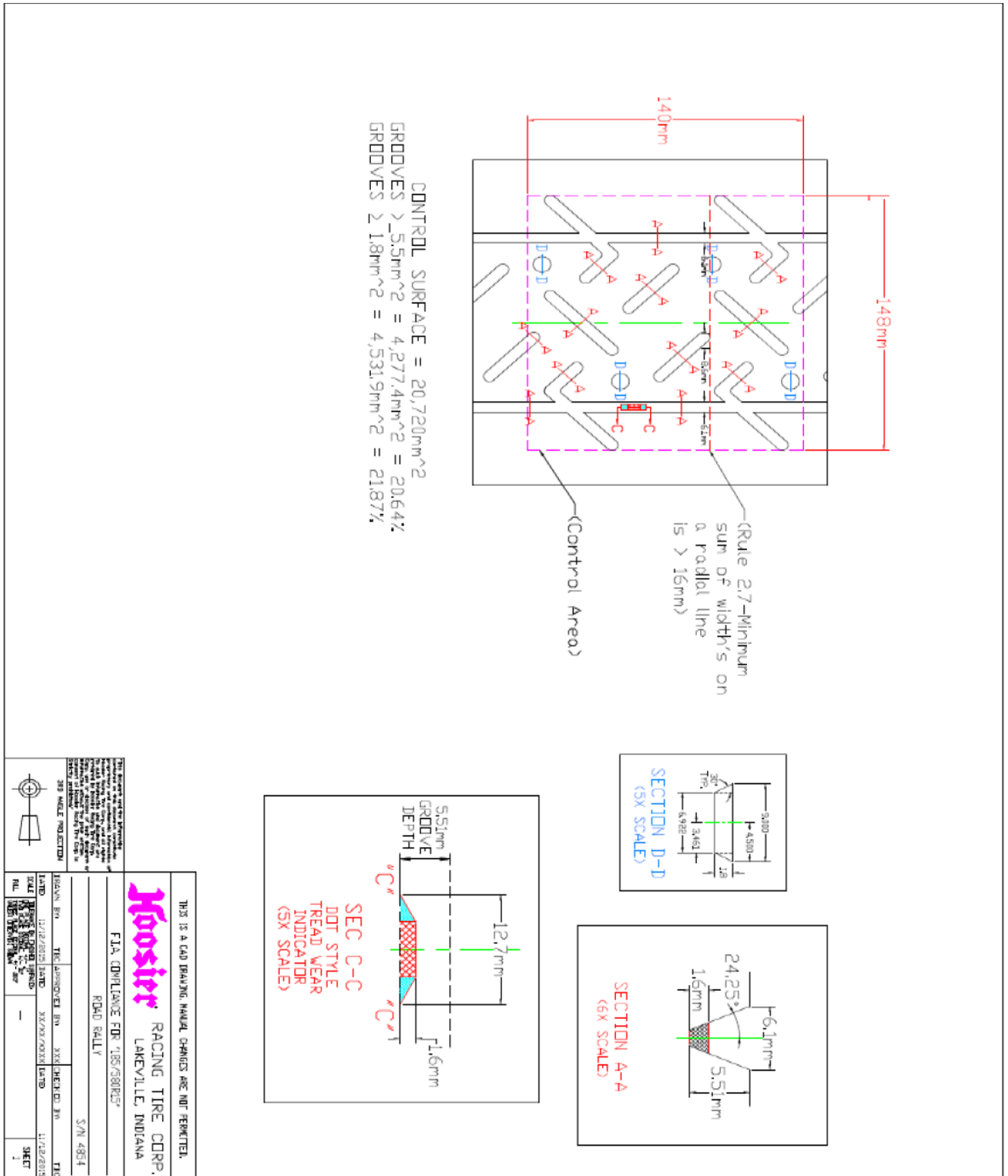
195/50R16 TARMAC RALLY S/N 4926

DRAWN BY: KJB	APPROVED BY: KKK	CHECKED BY: KJB
DATE: 04-08-2008	DATE: 04-08-2008	DATE: 04-09-2008
SCALE: 1:1	SCALE: 1:1	SHEET: 1

# Hoosier

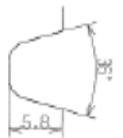
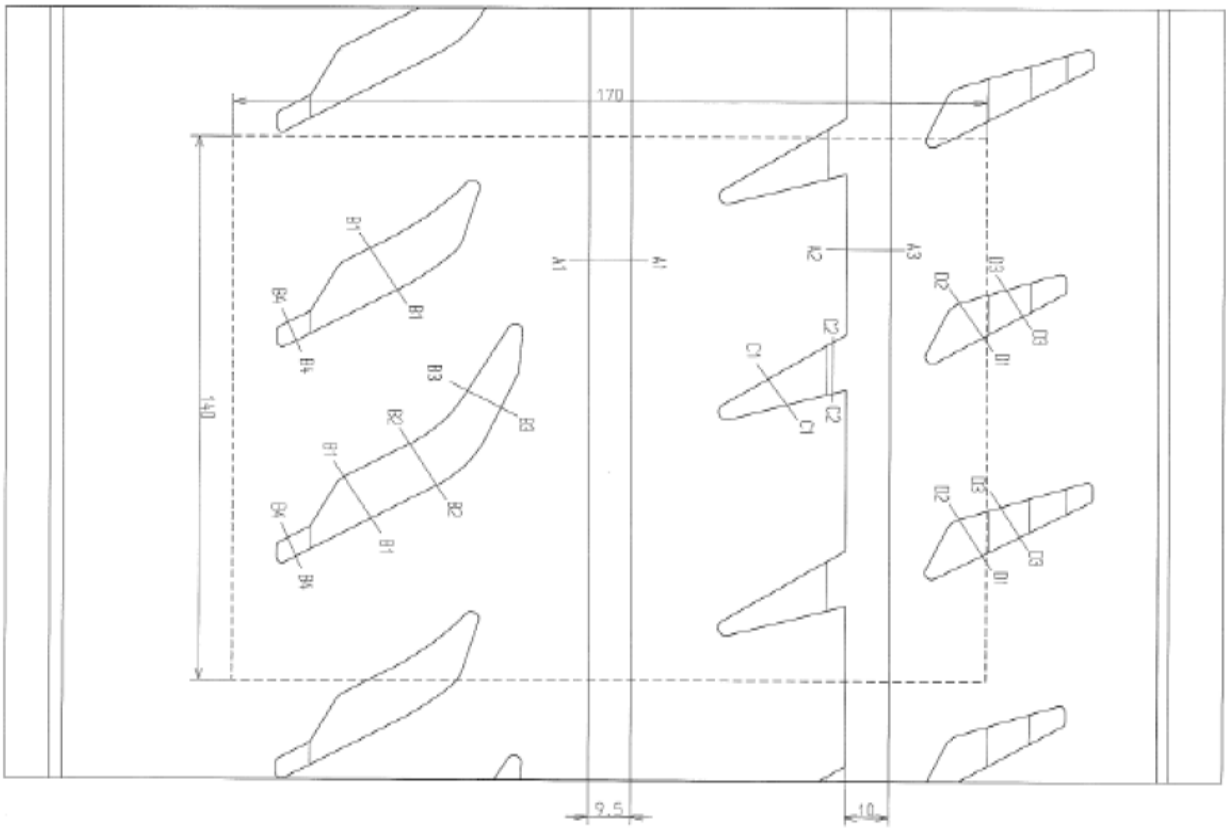
RACING TIRE

# 15" - 185/580R15

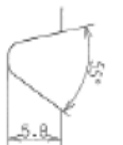


# TOYO TIRES

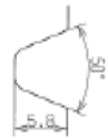
# 18" - 205/640R18



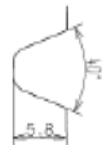
SEC. A1-A1



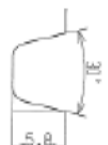
SEC. A2-A3



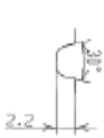
SEC. B1-B1



SEC. B2-B2



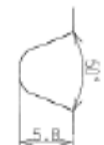
SEC. B3-B3



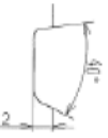
SEC. B4-B4



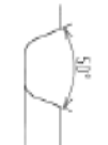
SEC. C1-C1



SEC. C2-C2



SEC. D1-D2



SEC. D3-D3

In the control area  
5.5mm grooves -18, 22  
Total grooves 22, 34

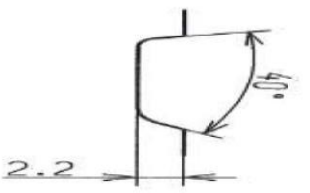
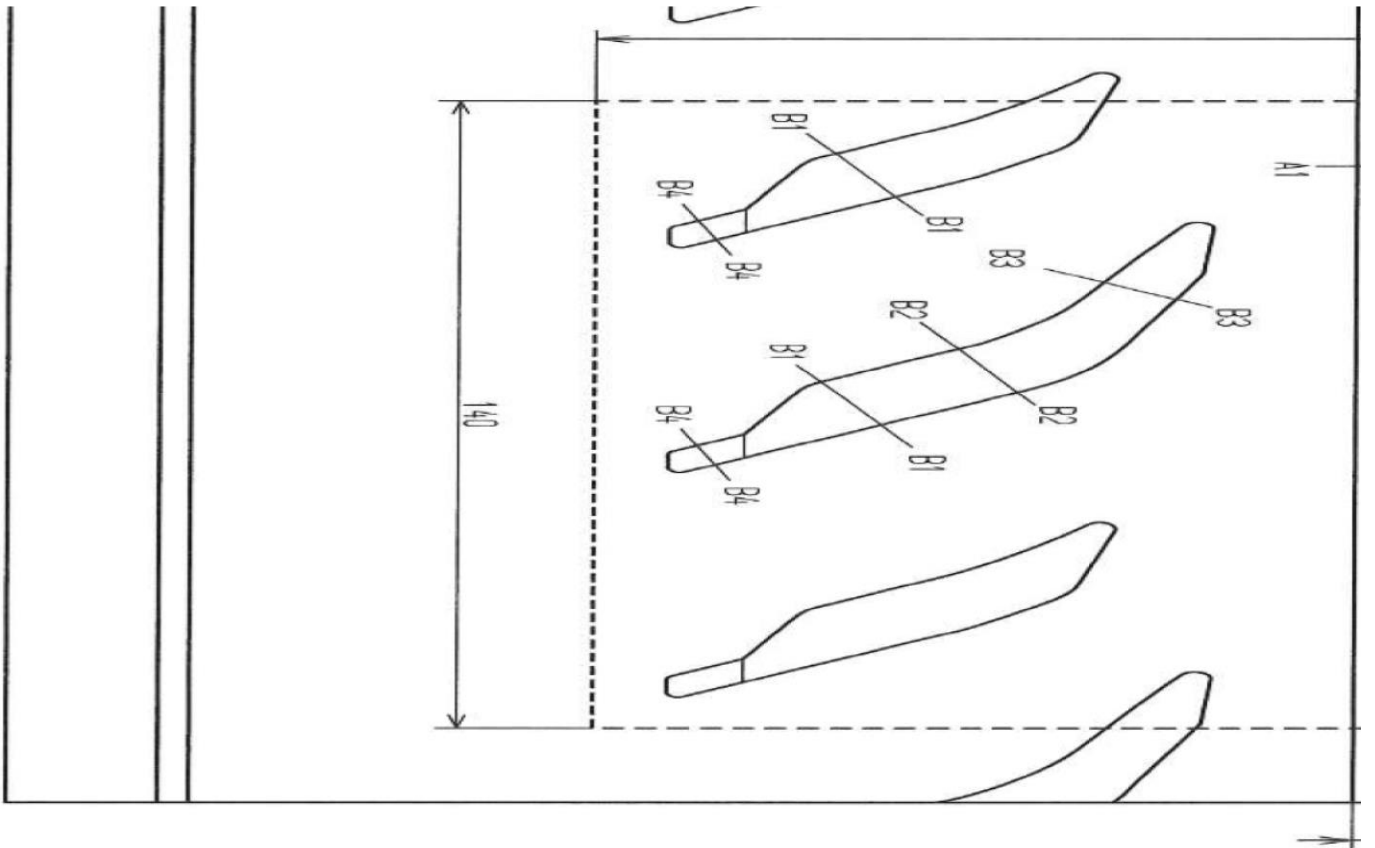
-----Control area(170x140)

PRODUCT NAME  
TOYO PROXES 888RT

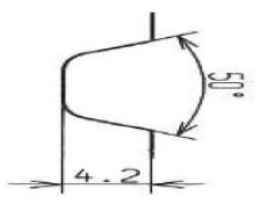
SIZE 205/640R18

**TOYO TIRES**

**16" - 185/600R16**



SEC.01-D2



SEC.03-D3

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

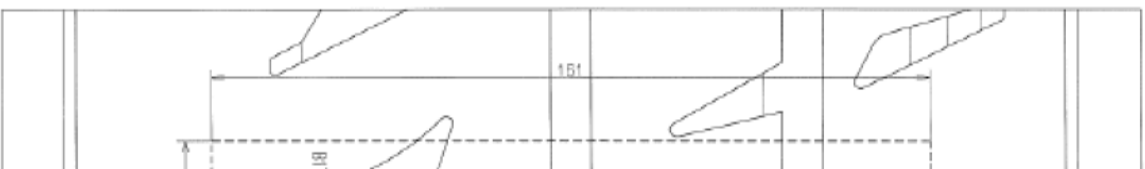
-----Control area(148x140)

PRODUCT NAME  
 TOYO PROXES 888RT

SIZE 185/58R15

**TOYO TIRES**

**15" - 185/580R15**





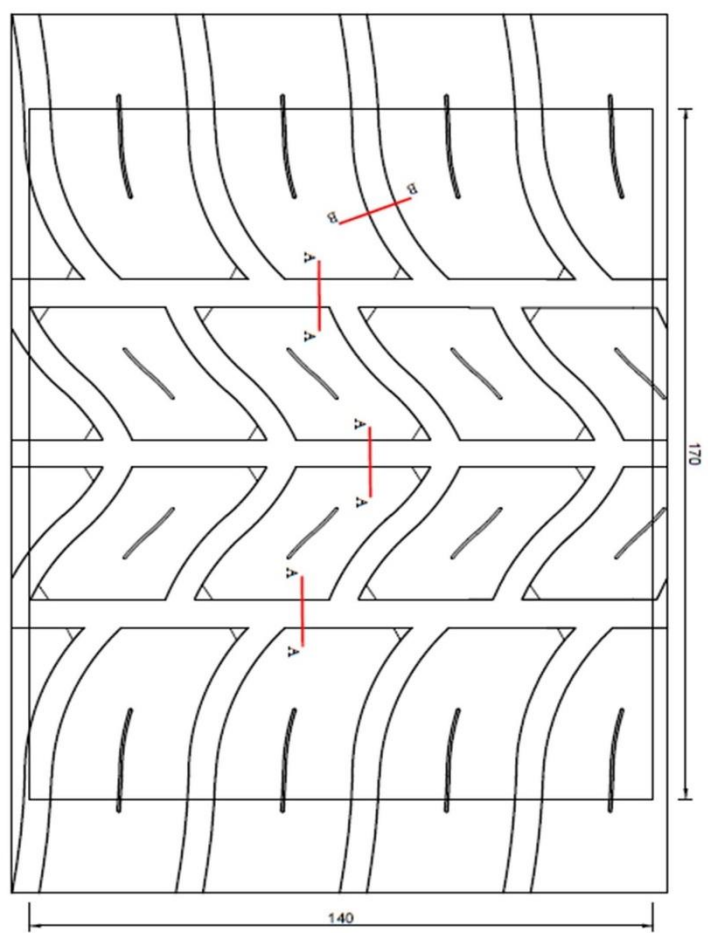




# MRF TYRES 18" - 235/40R18



## MRF 235/40R18 ZWR1 TL



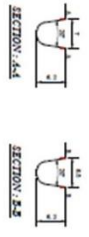
In the control area 170x140 mm (Indicated in the dotted line)

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

CLASS 9"  
RIM 8.0"



IF IN DOUBT ASK...  
At direction of the firm, when otherwise specified

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NOT TO SCALE

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

CORPORATE TECHNICAL MOLD DESIGN	DRG No.	RR-235/40R18_0720	REVISION No.	00
SAP DOCUMENT TYPE:	SAP DOCUMENT No.		VER	1

CHENNAI  
**MRF**  
INDIA

S.No.	DATE	DESCRIPTIONS	DRAWN	VPRO / PGM

DRAWN	APPROVED	SCALE
G Kirishankar	T.N.Sundar	MTS
PSE	VPRO / PGM	
DATE	17.02.2020	



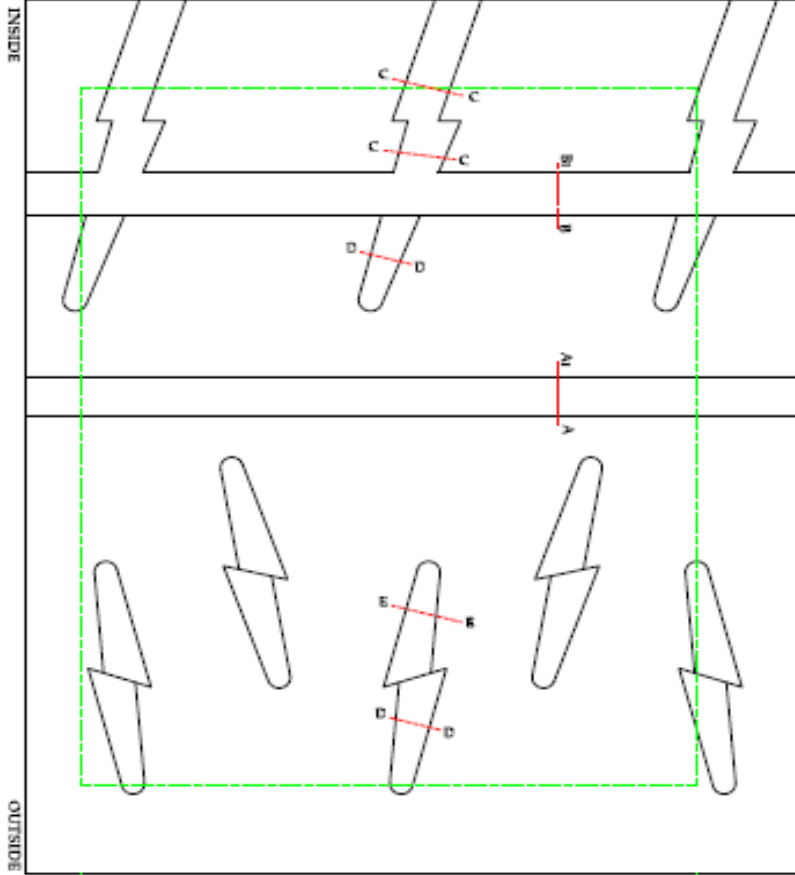
# MRF TYRES



# 18" - 235/40R18

## **235 / 40 R18 ZTA PLUS TL**

170.0



140.0

**In the control area 170 x 140 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 radial line is >16 mm

**CLASS 9"**  
**RIM 8.0"**

IF IN DOUBT ASK...  
DO NOT SCALE THE DRAWING  
All dimensions are in mm. Other values apply.



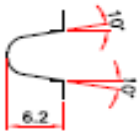
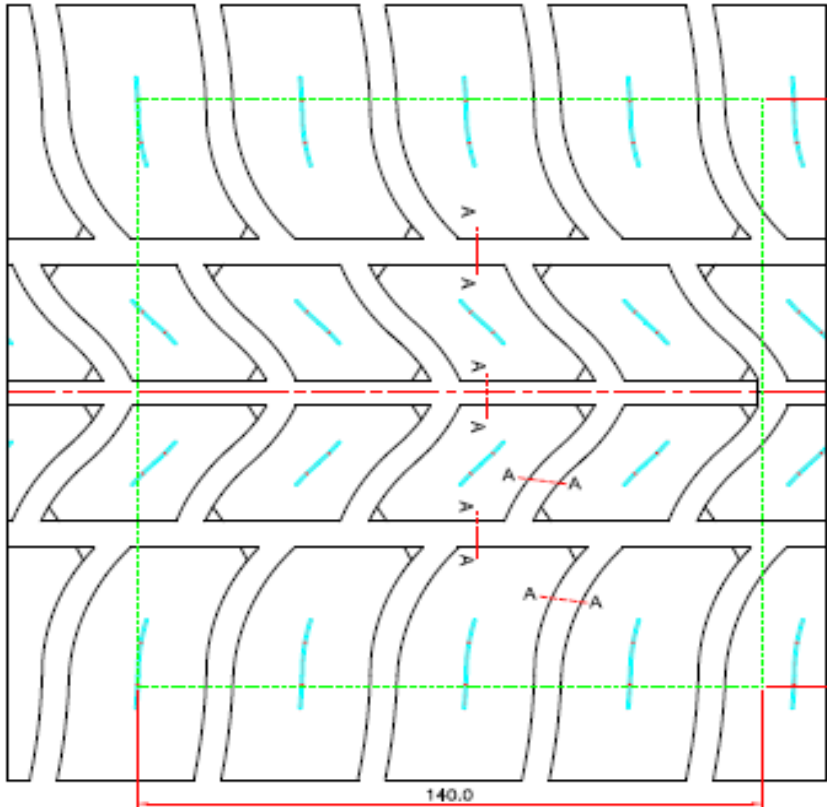
CLASS	DESCRIPTION	PREPARED	HEAD
DATE		APPROVED / PDM	MODIFIED DESIGN
<b>REVISIONS</b>			
<b>CHENNAI</b>		<b>INDIA</b>	
<b>ZTA PLUS</b>		<b>APPROVED</b>	
DESIGNER	CHECKED/SIGNED	APPROVED	SCALE
REVISION	DATE	BY	REASON
DATE	24.02.2021	ENRPO / RMR	MIS
<b>F.I.A COMPLIANCE FOR 235/40R18 ZTA PLUS TL</b>			
CORPORATE TECHNICAL WOULD DESIGN		DRG No.	FA-0004
SAP DOCUMENT TYPE	SAP DOCUMENT NO.	VER	00



**MRF TYRES**

# 17" - 205/45R17

**205 / 45 R17 ZWR1 TL**



**F. IN DOUBT ASK...**  
DO NOT SCALE THE DRAWING.  
BE GENEROUS AND BE PRECISE. WHEN DRAWING SPACINGS.

**NOT TO SCALE**

**SECTION: A-A**

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In the control area 148 x 140 mm (Indicated in the Dotted Line)

Grooved area within Min. 5.5 deep grooves > 27.5%  
 The total width of the circumferential line is >12 mm  
 The sum of the width of the grooves encountered by radial line is >16 mm

CLASS 8"  
RIM 7.0"

Sl. No.	DATE	DESCRIPTIONS	DRAWN	HECKED	APPROVED	SCALE

**CHENNAI ZWR1 INDIA**

**F.I.A COMPLIANCE FOR 205 / 45 R17 ZWR1 TL**

DESIGN	CHECKED/ISSUED	APPROVED	SCALE
SIGNATURE: Operational	HEADQUARTERS/CHENNAI	ENGRD / PGM	MIS
DATE: 14.07.2017			

COMPONENT TECHNICAL MOULD NUMBER: **FA-0001**

SAF DOCUMENT TYPE: SAF DOCUMENT No. 1

REVISION No. 00

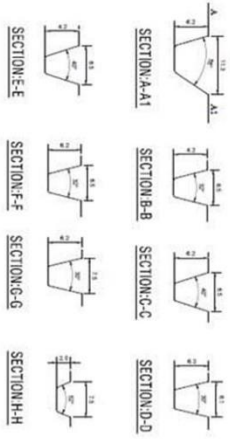
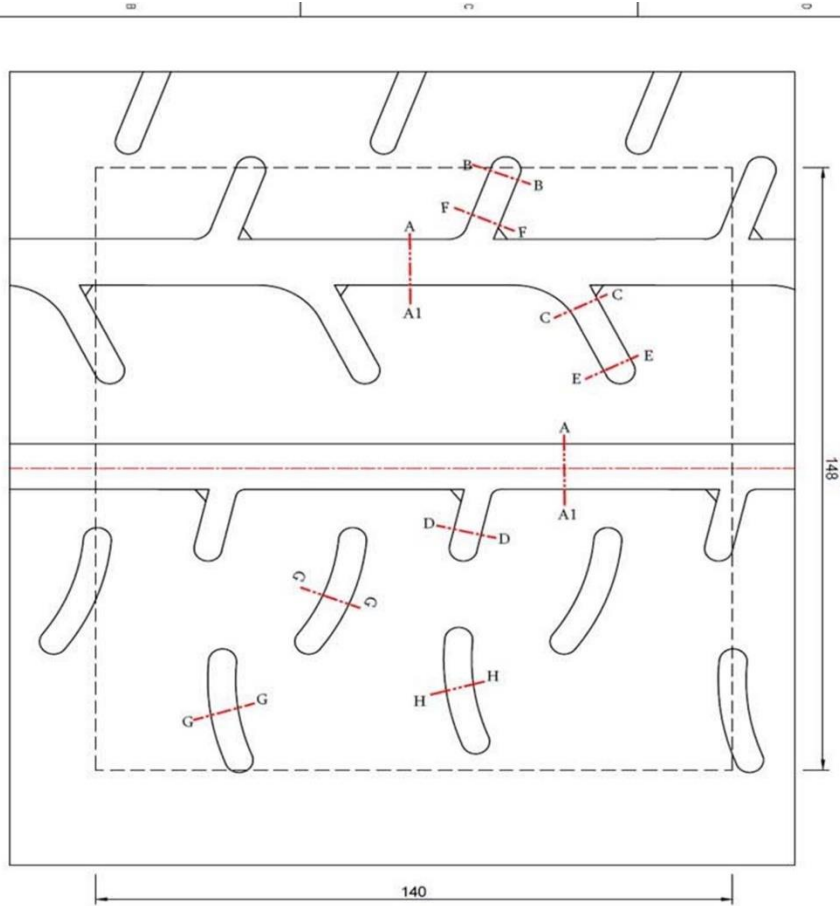


**MRF TYRES**

# 17" - 205/45R17



**MRF 205/45R17 ZTA1 TL**



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

- Grooved area within Min. 1.8 deep grooves > 21.5%
- Grooved area within Min. 5.5 deep grooves > 17.0%
- The total width of the circumferential line is >12 mm
- The sum of the width of the grooves encountered by a radial line is >16 mm

**CLASS 8"  
RIM 7.0"**

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

**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		

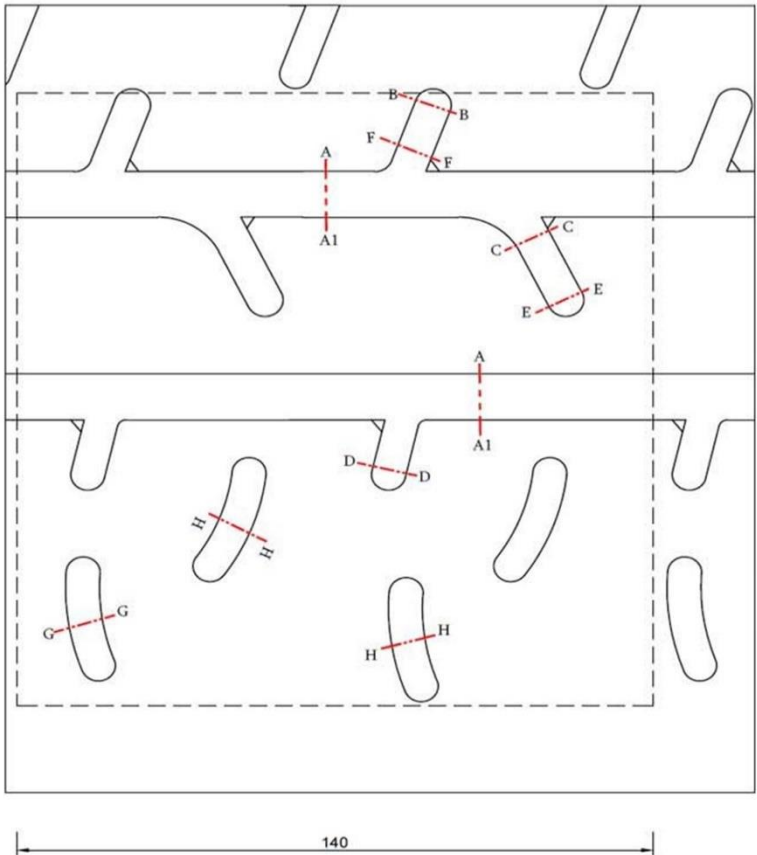


**MRF TYRES**

# 16" - 195/50R16



**MRF 195/50R16 ZTA1 TL**



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

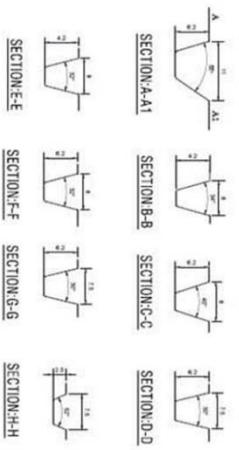
Grooved area within Min. 1.8 deep grooves > 21.5%

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"**



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IF IN DOUBT ASK.

NOT TO SCALE

S No.	DATE	DESCRIPTIONS	DRAWN	EYPRD / PDM
REVISIONS				
CHENNAI				
DRAWN		APPROVED		SCALE
SIGNATURE		T N Sunder		NTS
DATE		EYPRD / PDM		
25.01.18		29.01.18		

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

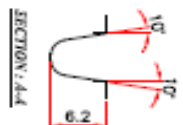
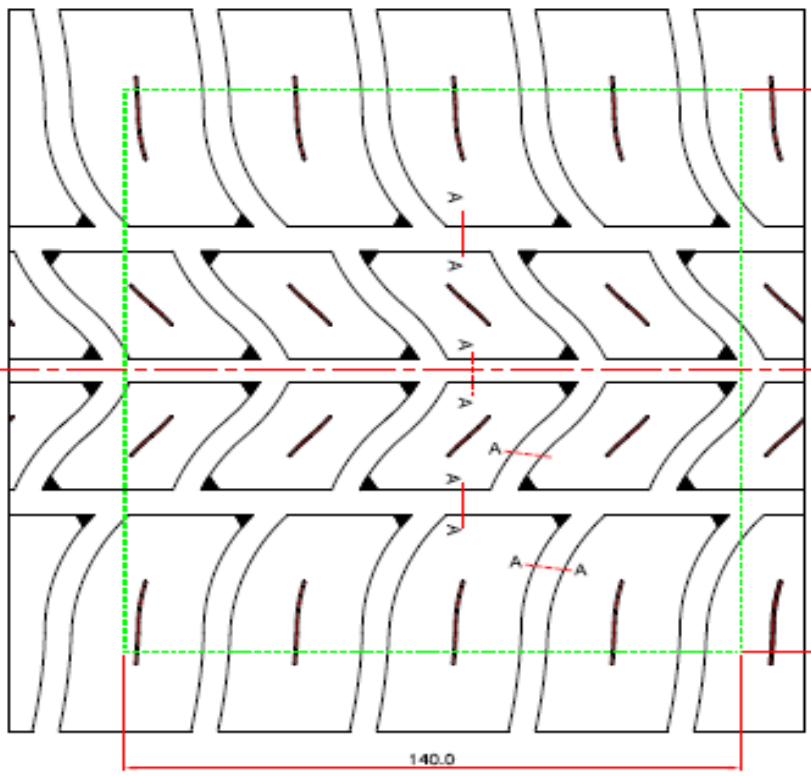
CORPORATE TECHNICAL MOULD DESIGN	DRG No.	RR-195/50R16_0518	REVISION No.	00
SAP DOCUMENT TYPE	SAP DOCUMENT No.		VER	



**MRF TYRES**

# 16" - 195/50R16

**MRF 195 / 50 R16 ZWR1 TL**



In the control area 148 x 140 mm (Indicated in the Dotted Line)

Grooved area within Min. 5.5 deep grooves > 27.5%

The total width of the circumferential line is >12 mm

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

CLASS 8"  
RIM 6.5"

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S.N.O.		DESCRIPTIONS	REVISIONS	REVISION NO.	DATE	BY	CHKD.

DRAWN		DATE	APPROVED	SCALE
DESIGNED				
CHECKED				
DATE				

**F.I.A COMPLIANCE FOR 195/50 R16 ZWR1 TL**

COMPONENT TECHNICAL MODEL DESIGN	DRG. NO.	FA-0002	REV. NO.	00
SAP DOCUMENT TYPE	SAP DOCUMENT NO.			



**MRF TYRES**

**15" - 195/50R15**

**MRF 195 / 50 R15 ZWR1 TL**

In the control area 148 x 140 mm (Indicated in the Dotted Line)

Grooved area within Min. 5.5 deep grooves > 27.5%

The total width of the circumferential line is >12 mm

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

**CLASS 8"**  
**RIM 6.5"**

**DO NOT SCALE THE DRAWING**

**NET TO SCALE**

**F.I.A COMPLIANCE FOR 195/50 R15 ZWR1 TL**

S/N	DATE	DESCRIPTIONS	DRAWN	HEAD	WORLD DESIGN	YRSD / PWR

**INDIA**

DRAWN	DATE	APPROVED	SCALE
SIGNATURE	DESIGN	HEAD-WORD DESIGN	YRSD / PWR
DATE			
16.02.2021			

**COMPONENT TECHNICAL WORLD DESIGN**

COMP. NO. **FA-0003**

REV. NO. **00**



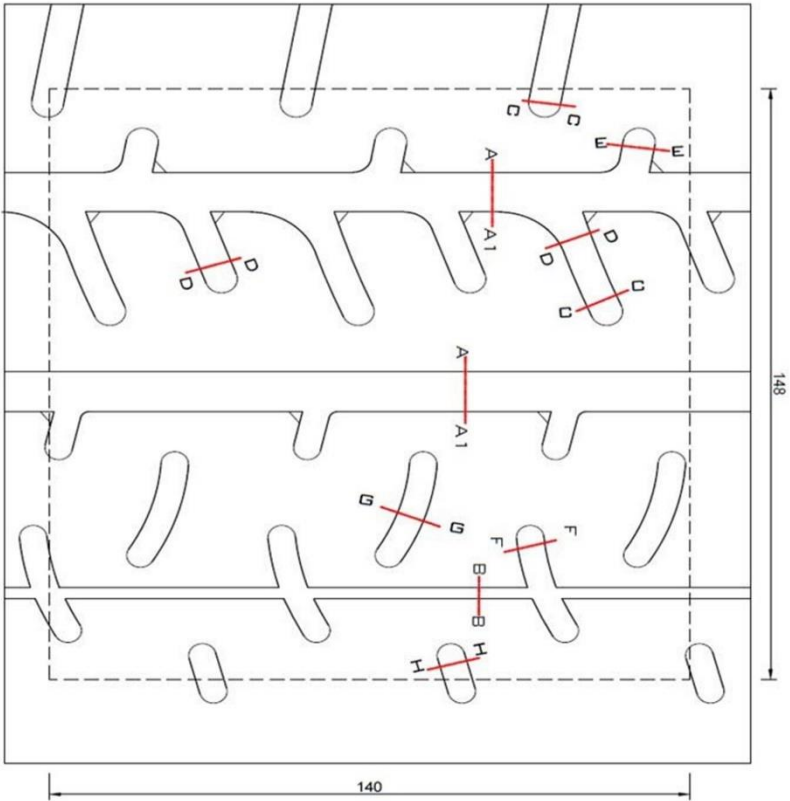


**MRF TYRES**

# 15" - 195/50R15



## MRF 195/50R15 ZTA1 TL



148

140

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"**

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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 Krishnahar	APPROVED	T N Sundar
SIGNATURE	DE	EVPRD / PDM	NTS
DATE	25.01.18	EVPRD / PDM	29.01.18

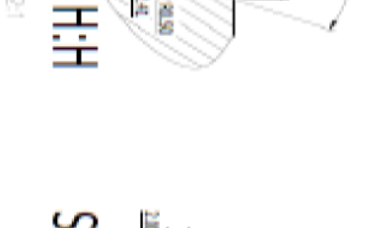
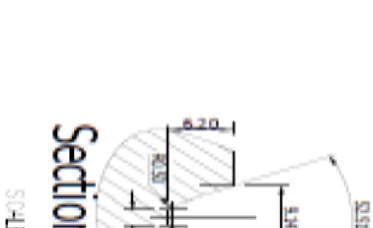
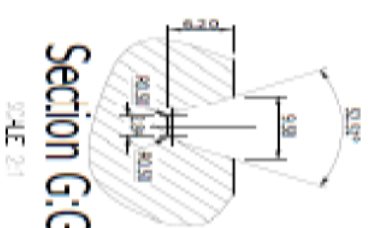
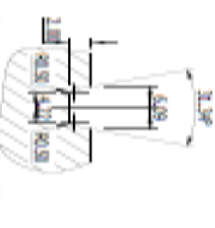
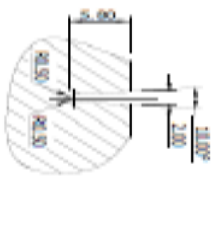
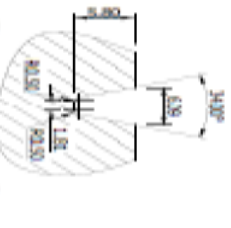
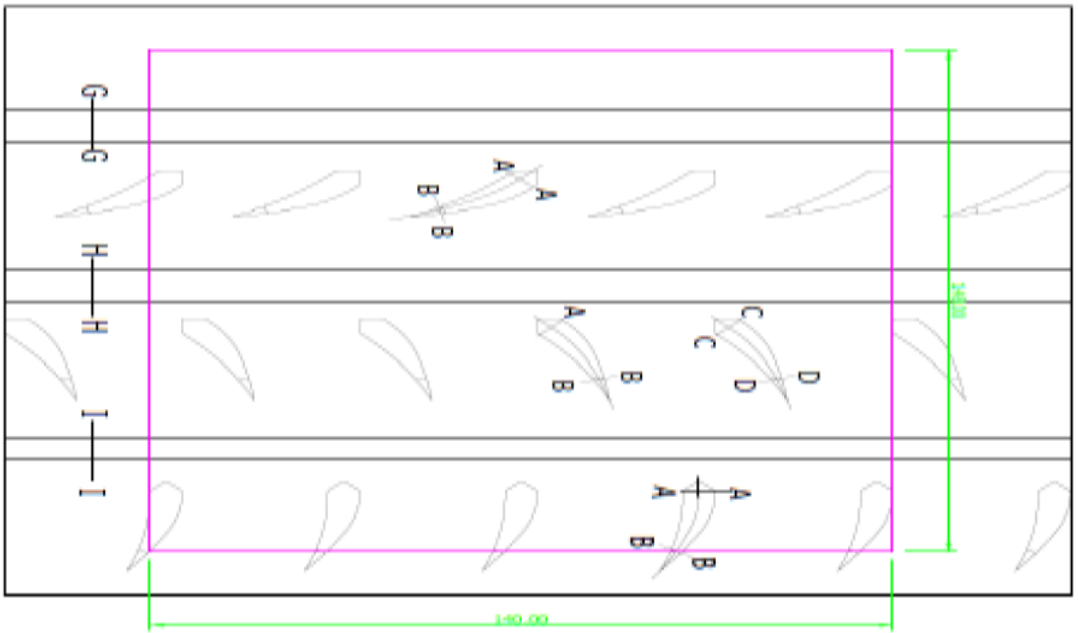
**F.I.A COMPLIANCE FOR 195/SOR15 ZTA1 TL**

CORPORATE TECHNICAL MOULD DESIGN	DRG No.	RR-195/SOR15_0518	REVISION No.	00
SAP DOCUMENT TYPE	SAP DOCUMENT No.	VER		



**COOPERTIRES**

**15" - 195/50R15**



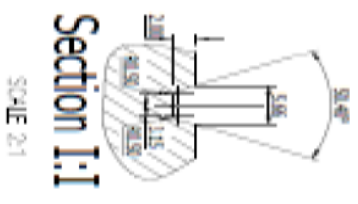
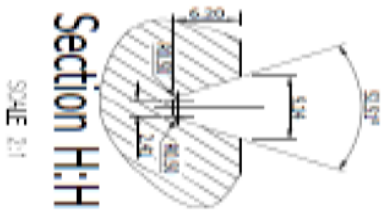
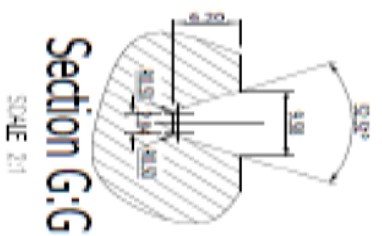
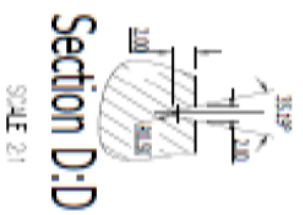
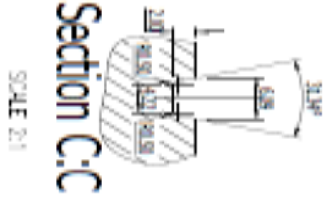
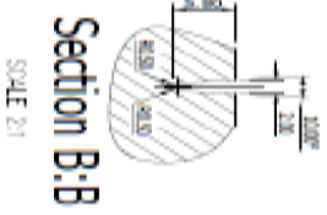
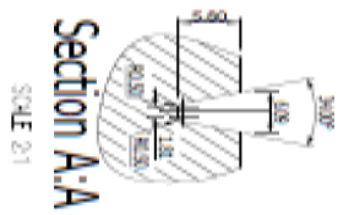
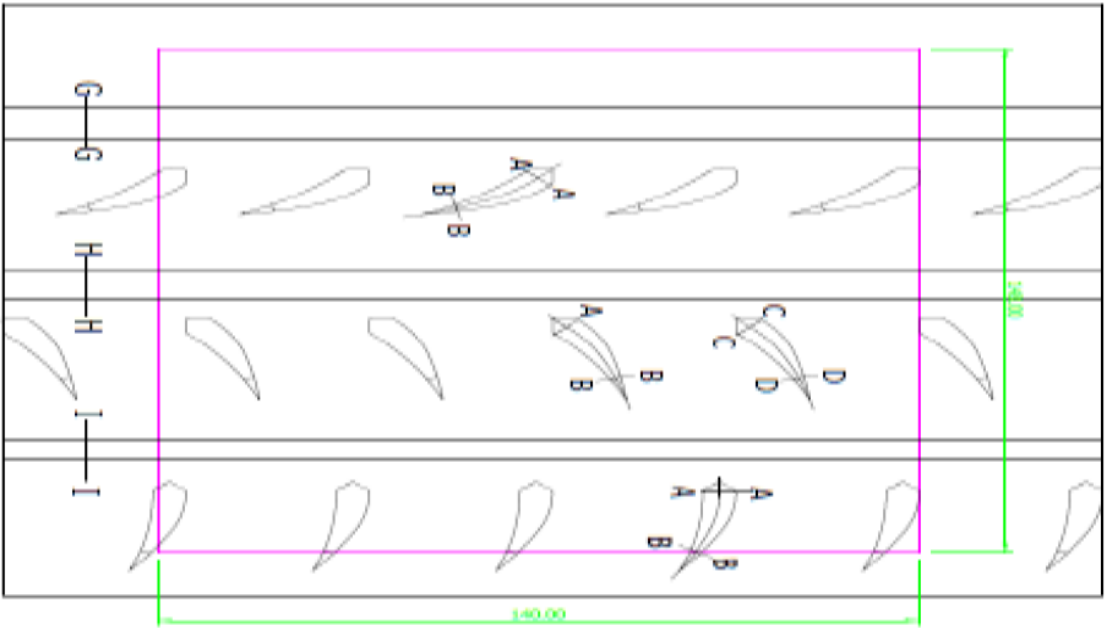
5.5m Groove - 17.74%  
Total Grooves - 22.46%

Rim - 7.0"  
Class - 8.0"



**COOPERTIRES**

**16" - 195/50R16**



5.5mm Groove - 17.62%  
 Total Grooves - 22.35%

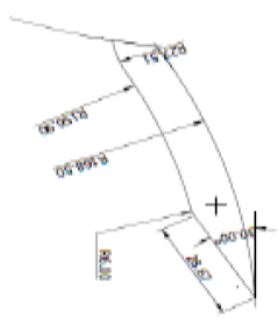
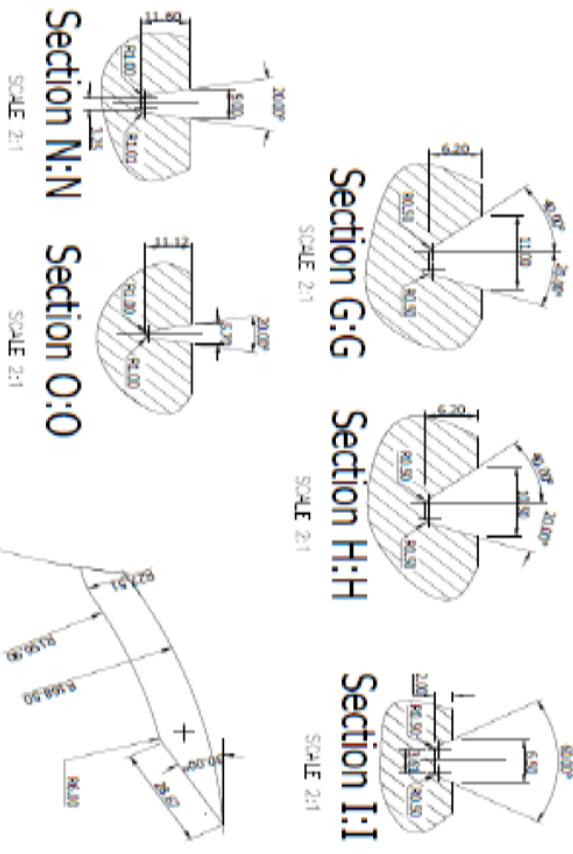
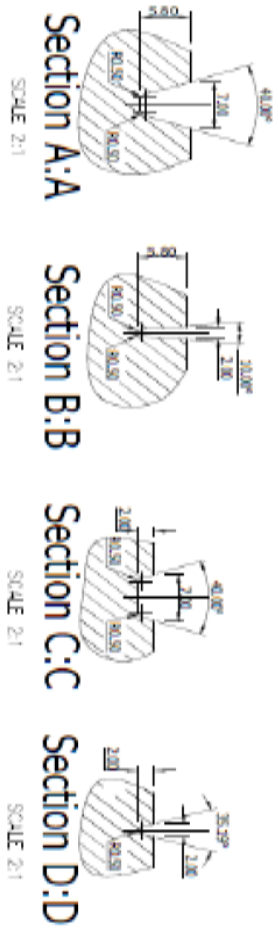
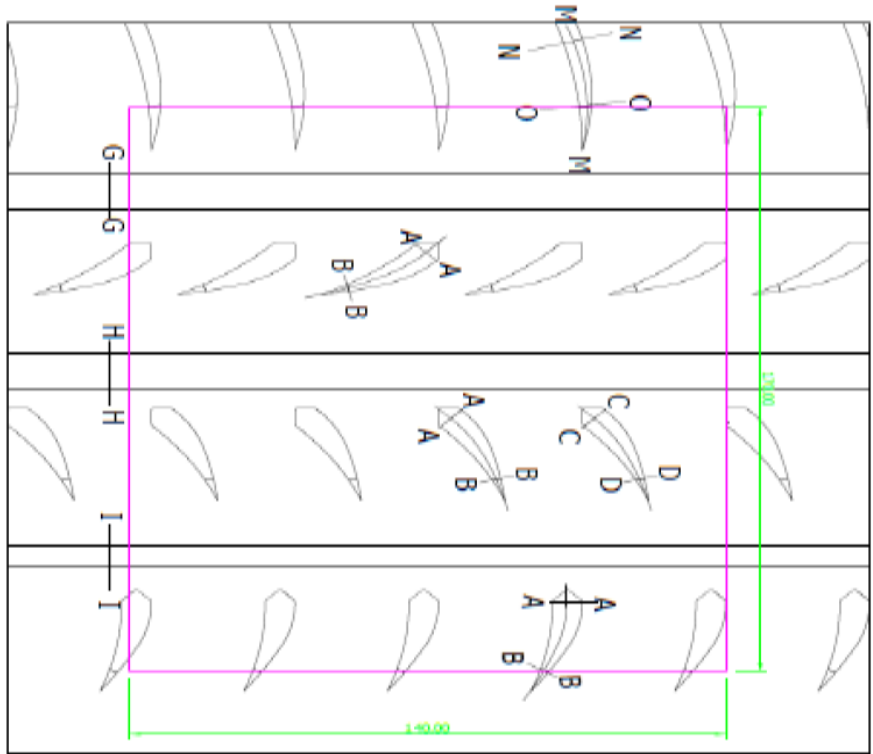
Rim - 7.0"  
 Class - 8.0"





# COOPERTIRES

## 18" - 225/40-18



5.5m Groove - 18.35%  
 Total Grooves - 23.23%

Rim - 8.0"  
 Class - 9.0"

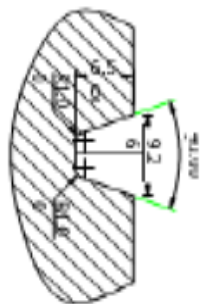
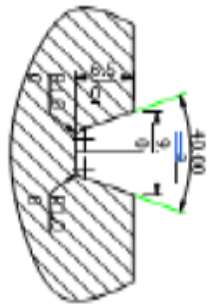
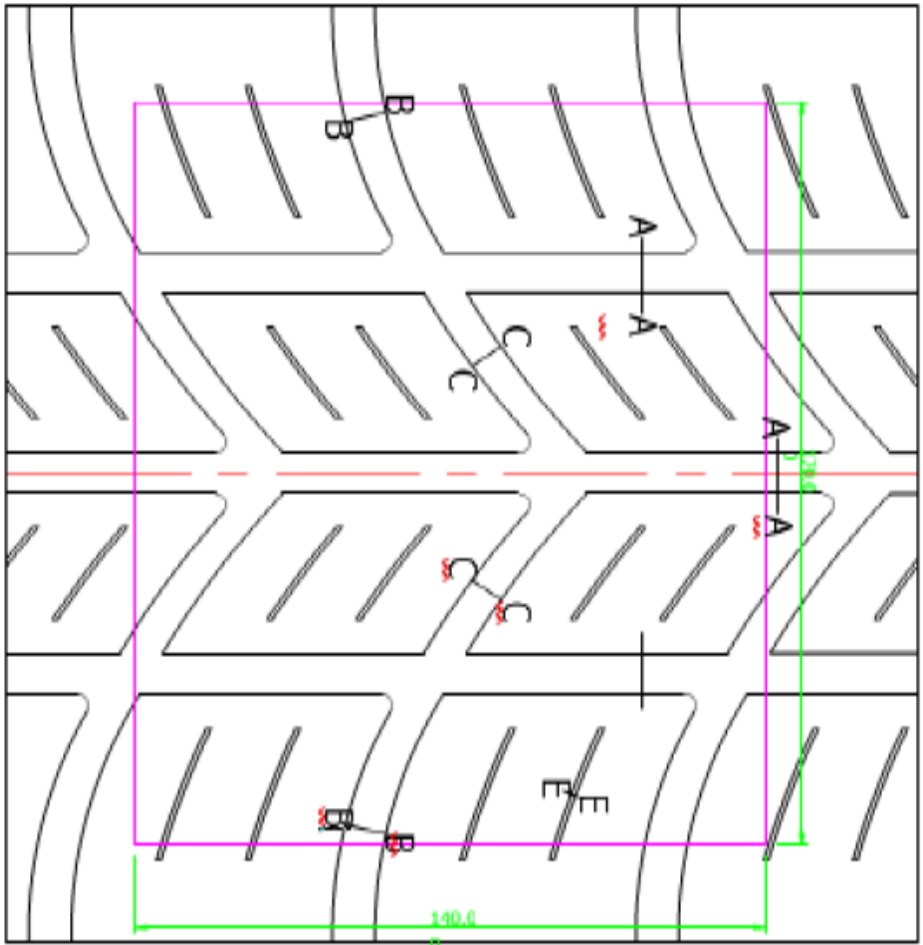


Section M:M

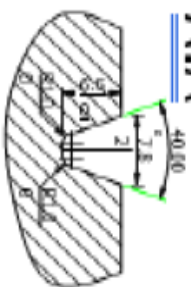


**COOPERTIRES**

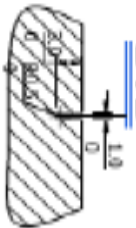
**18"**



**Section A:A**  
SCALE 2:1



**Section B:B**  
SCALE 2:1



**Section C:C**  
SCALE 2:1

**Section E:E**  
SCALE 2:1

Grooved Area with min 5.5mm > 27.5%

REMARKS	REVISIONS	APPROVED BY	DATE
COOPER TIRES & RUBBER COMPANY LTD. NEWSPHAR, WALSLEY ENGLAND.		<b>COOPER TIRES</b>	
COOPER TIRES & RUBBER COMPANY LTD. NEWSPHAR, WALSLEY ENGLAND.		SCALE	1:2.24
COOPER TIRES & RUBBER COMPANY LTD. NEWSPHAR, WALSLEY ENGLAND.		DATE	14/06/08
COOPER TIRES & RUBBER COMPANY LTD. NEWSPHAR, WALSLEY ENGLAND.		BY	JP
COOPER TIRES & RUBBER COMPANY LTD. NEWSPHAR, WALSLEY ENGLAND.		REVISION	A3



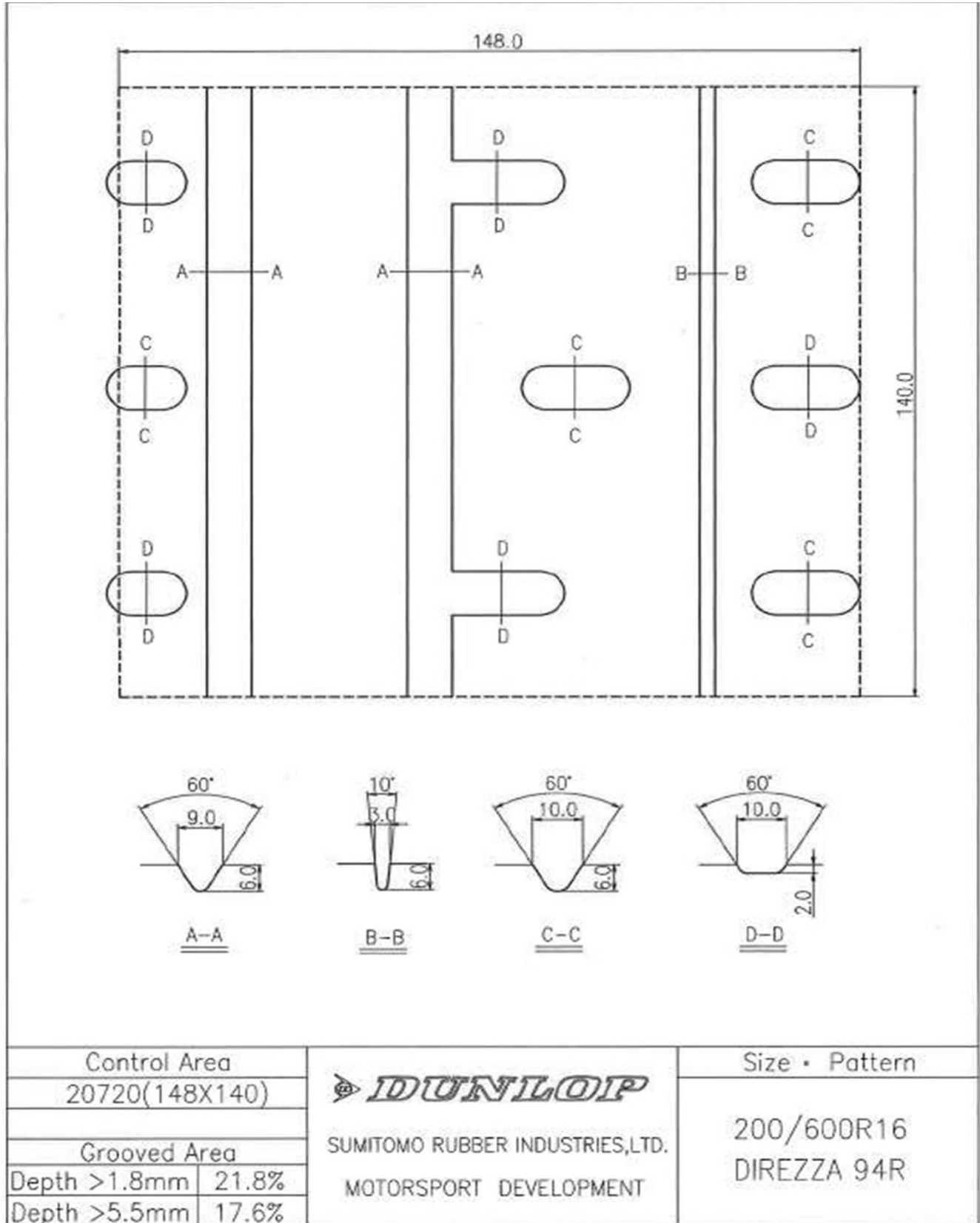






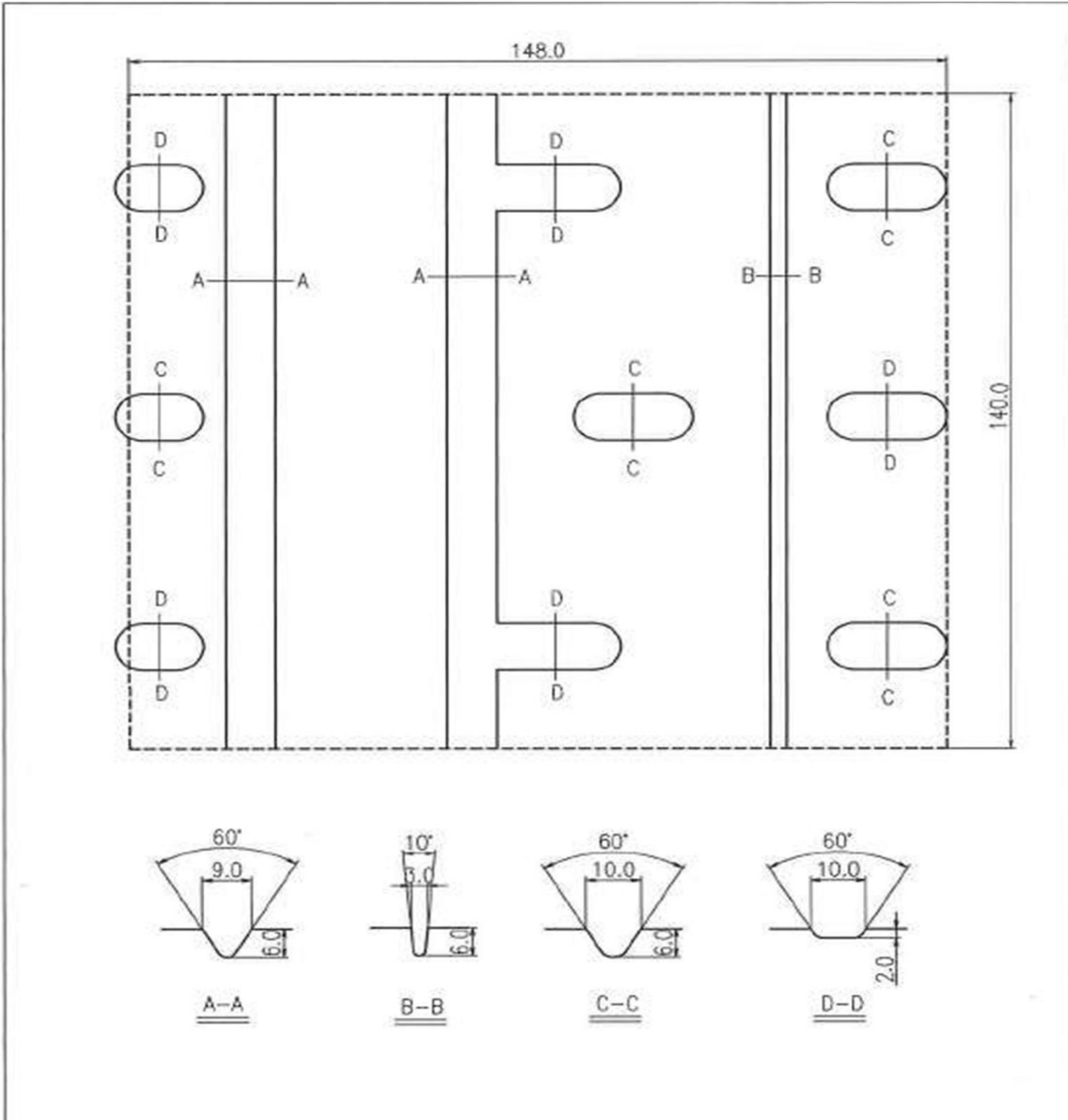


# 16" - 200 / 600 - R16





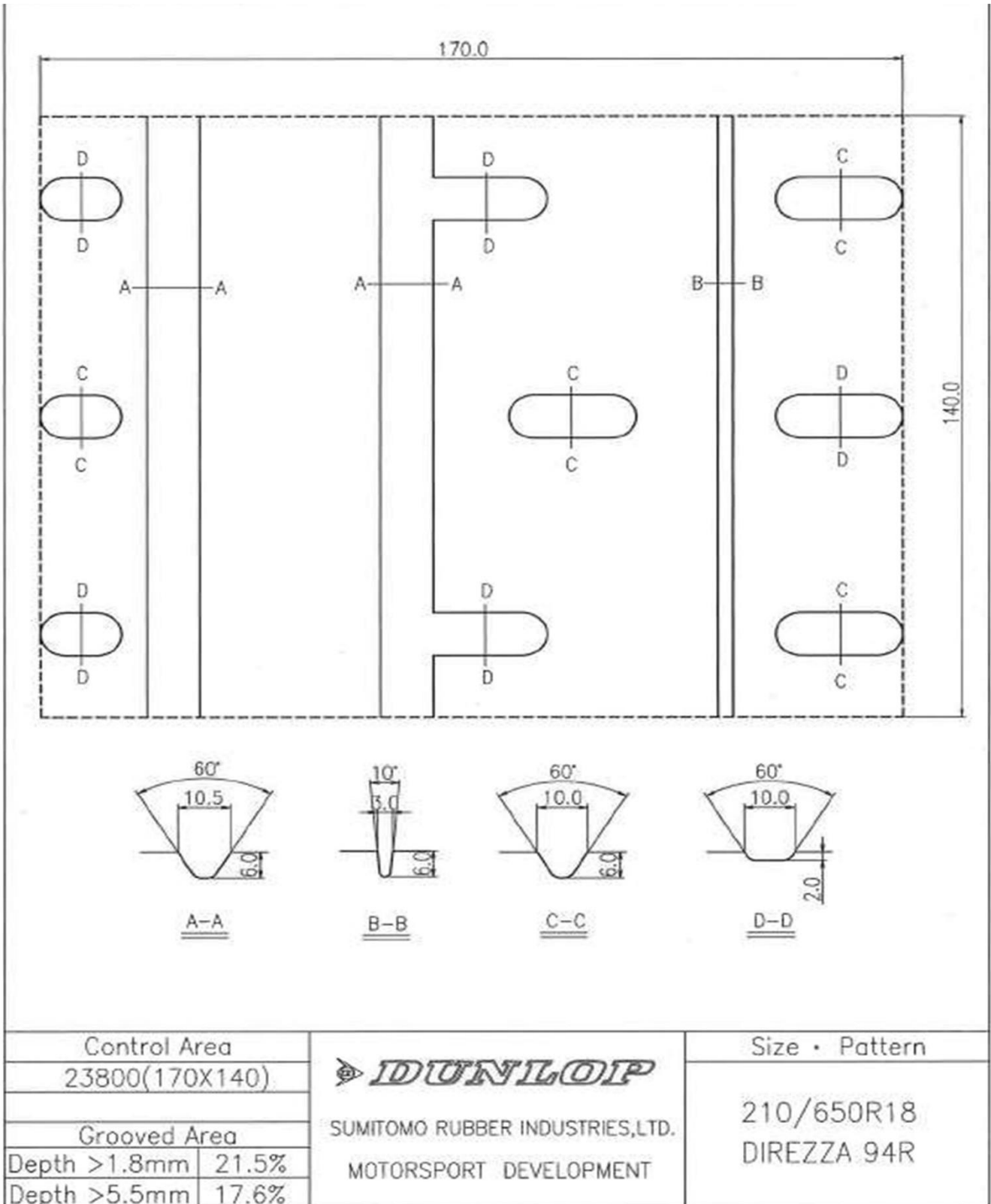
# 17" - 190/ 625 - R17



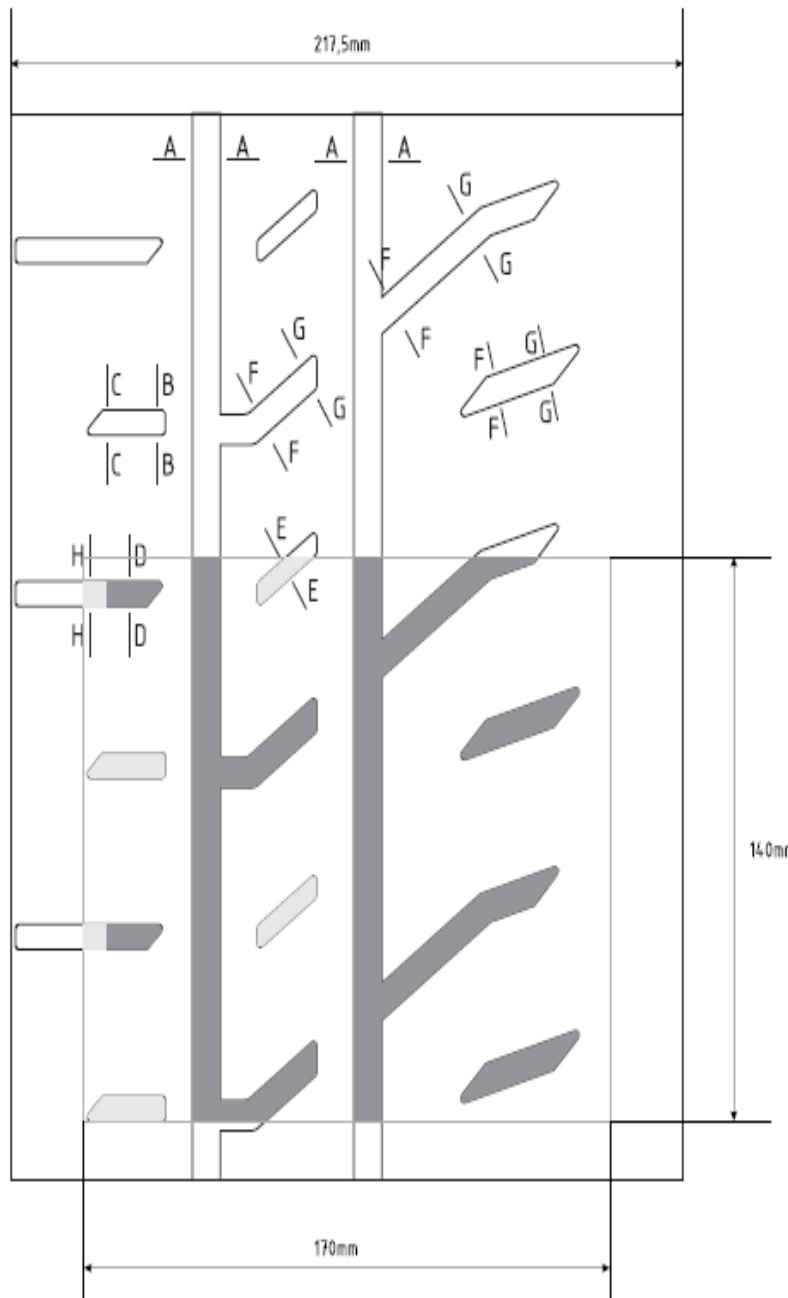
Control Area		 SUMITOMO RUBBER INDUSTRIES,LTD. MOTORSPORT DEVELOPMENT	Size • Pattern
20720(148X140)			190/625R17
Grooved Area			DIREZZA 94R
Depth >1.8mm	21.8%		
Depth >5.5mm	17.6%		



# 18" - 210/ 650 - R18



# 18" - 20 / 65 - R18 R-GT



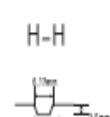
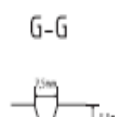
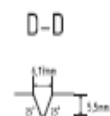
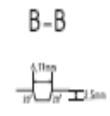
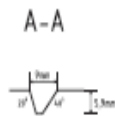
Name: EXTREME VRC

Size: 20/65-18

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

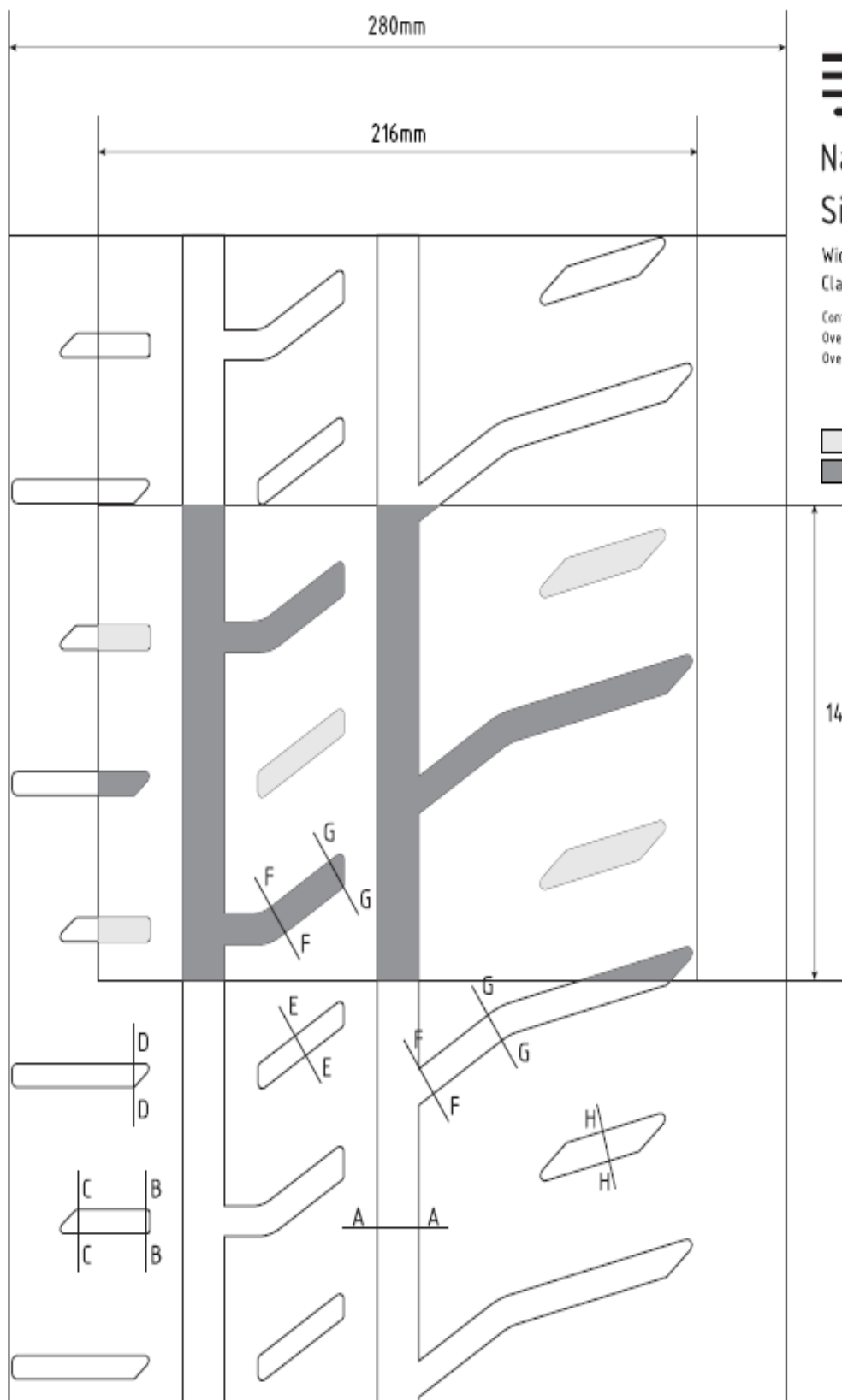
Control area: 170x140mm = 23800mm<sup>2</sup>  
Over 5,5mm depth grooves area = 4550mm<sup>2</sup> (19,12%)  
Over 1,8mm depth grooves area = 5118mm<sup>2</sup> (21,50%)

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



Scale: 1:1

# 18" - 28 / 66 - R18 R-GT



Name: EXTREME VRC

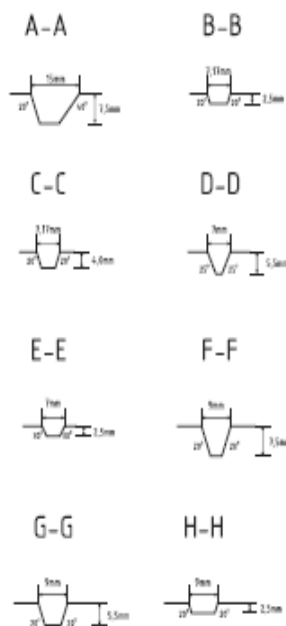
Size: 28/66-18

Width of the tyre/rim assembly: 289mm  
Class: RGT

Control area: 216x140mm = 30240mm<sup>2</sup>  
Over 5,5mm depth grooves area = 6295mm<sup>2</sup> (20,82%)  
Over 1,8mm depth grooves area = 7518mm<sup>2</sup> (24,86%)

Light grey: 1,8mm ≤ groove depth ≤ 5,5mm  
Dark grey: 5,5mm ≤ groove depth

140mm



Scale: 1:1

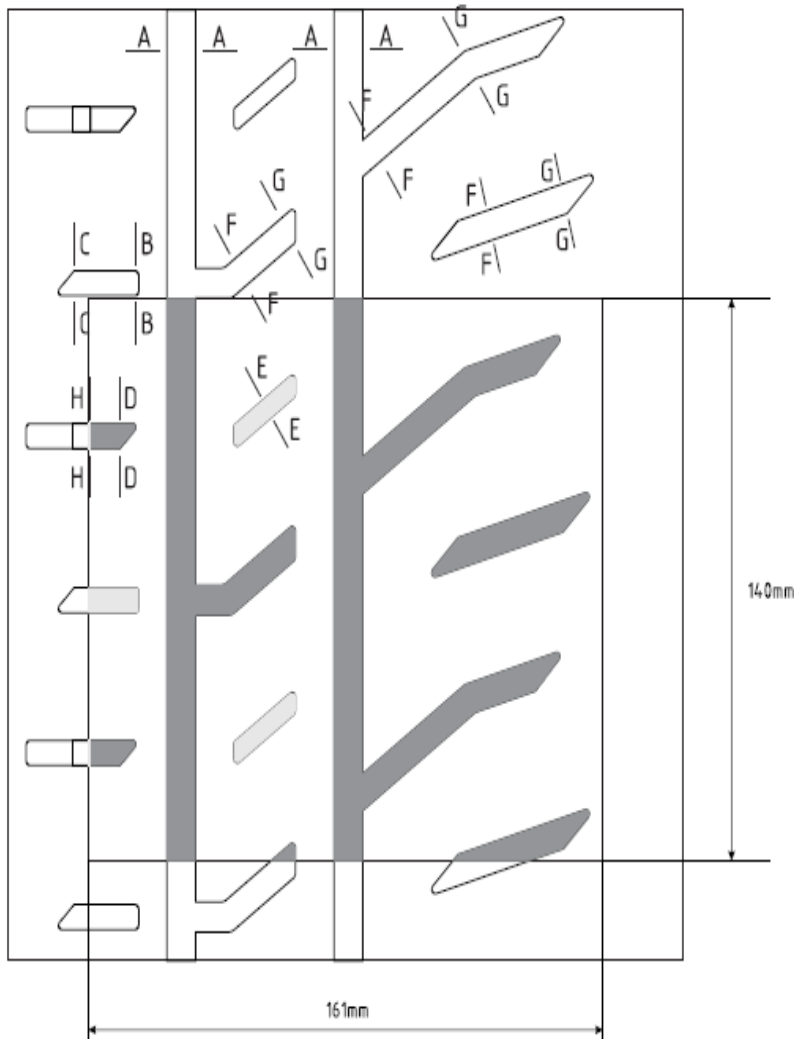
# 16" - 19 / 60 R16

Name: EXTREME VRC

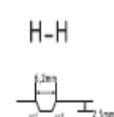
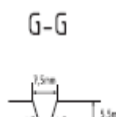
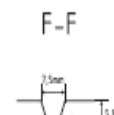
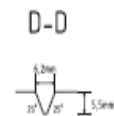
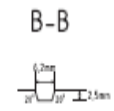
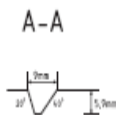
Size: 19/60-16

Width of the tyre/rim assembly: 206mm (8,1

Control area: 161x140mm = 22540mm<sup>2</sup>  
Over 5,5mm depth grooves area = 4518mm<sup>2</sup> (20,04%)  
Over 1,8mm depth grooves area = 4855mm<sup>2</sup> (21,54%)



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



Scale: 1:1

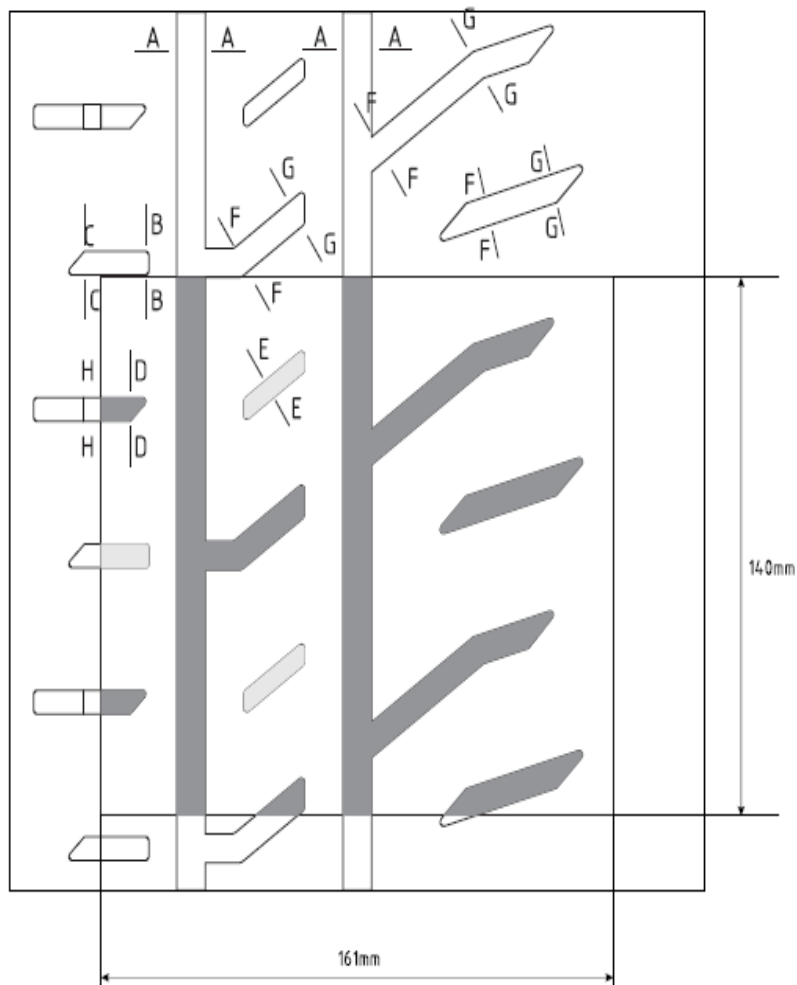
# 15" - 19 / 58 R15

Name: EXTREME VRC

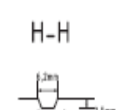
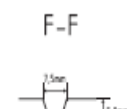
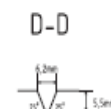
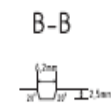
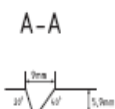
Size: 19/58-15

Width of the tyre/rim assembly: 207mm (8,1")

Control area: 161x140mm = 22540mm<sup>2</sup>  
 Over 5,5mm depth grooves area = 4530mm<sup>2</sup> (20,10%)  
 Over 1,8mm depth grooves area = 4852mm<sup>2</sup> (21,53%)



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



Scale: 1:1



## ANEXO V

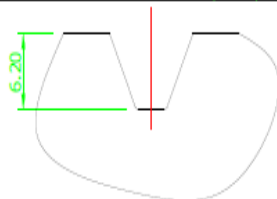
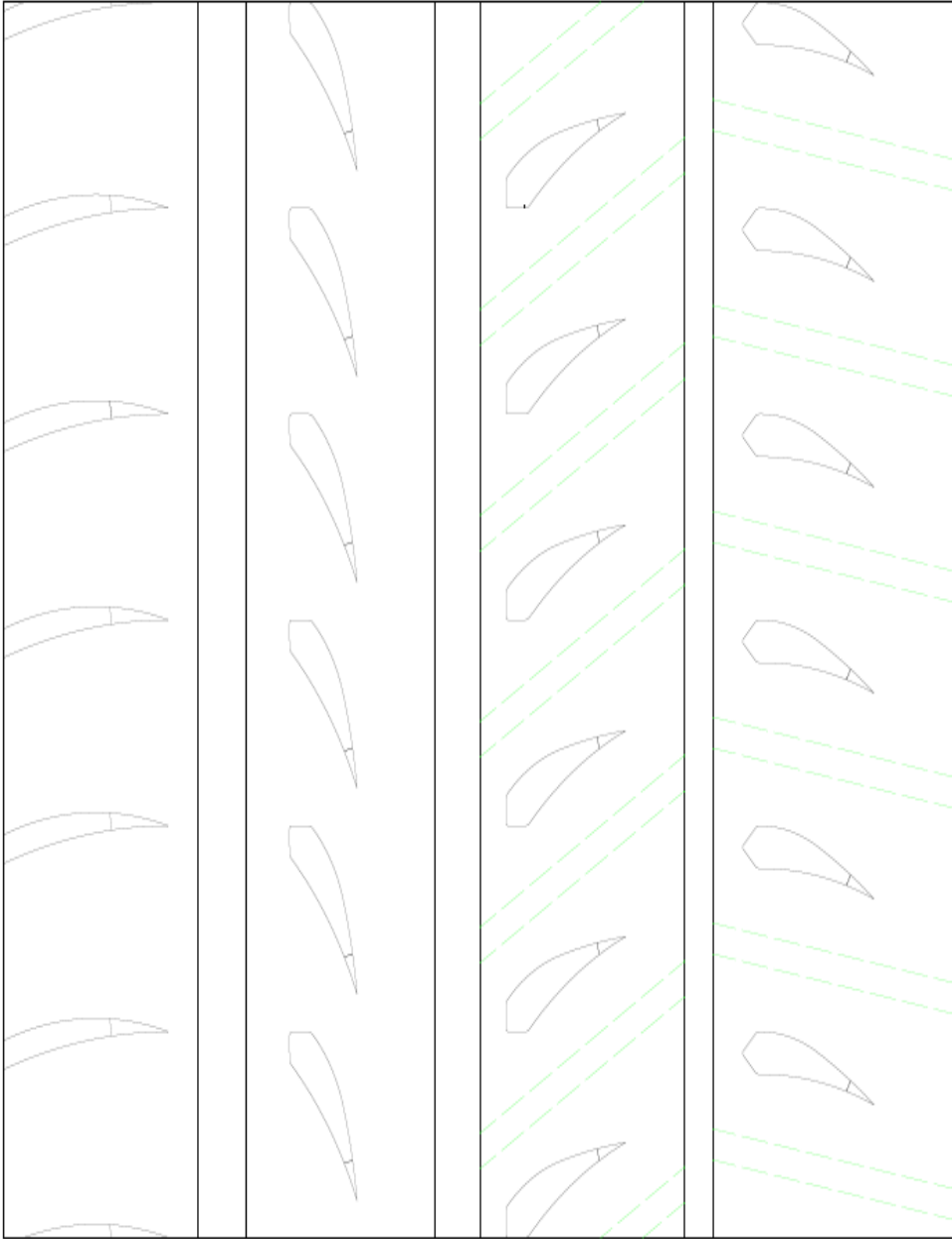
### LISTA DE PNEUS AUTORIZADOS PARA RECORTAR E CORTAR PARA CHUVA

SOMENTE PARA PROVAS DO **ERT (TROFÉU EUROPEU DE RALIS)** SE AUTORIZADOS PELA REGULAMENTAÇÃO ESPECÍFICA



**COOPERTIRES**

COOPER DISCOVERER TARMAC DT02 - 225/40R18 - WET CUTTING PATTERN – PHASE 1



Cut Groove Depth

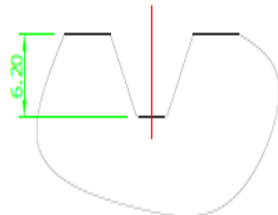
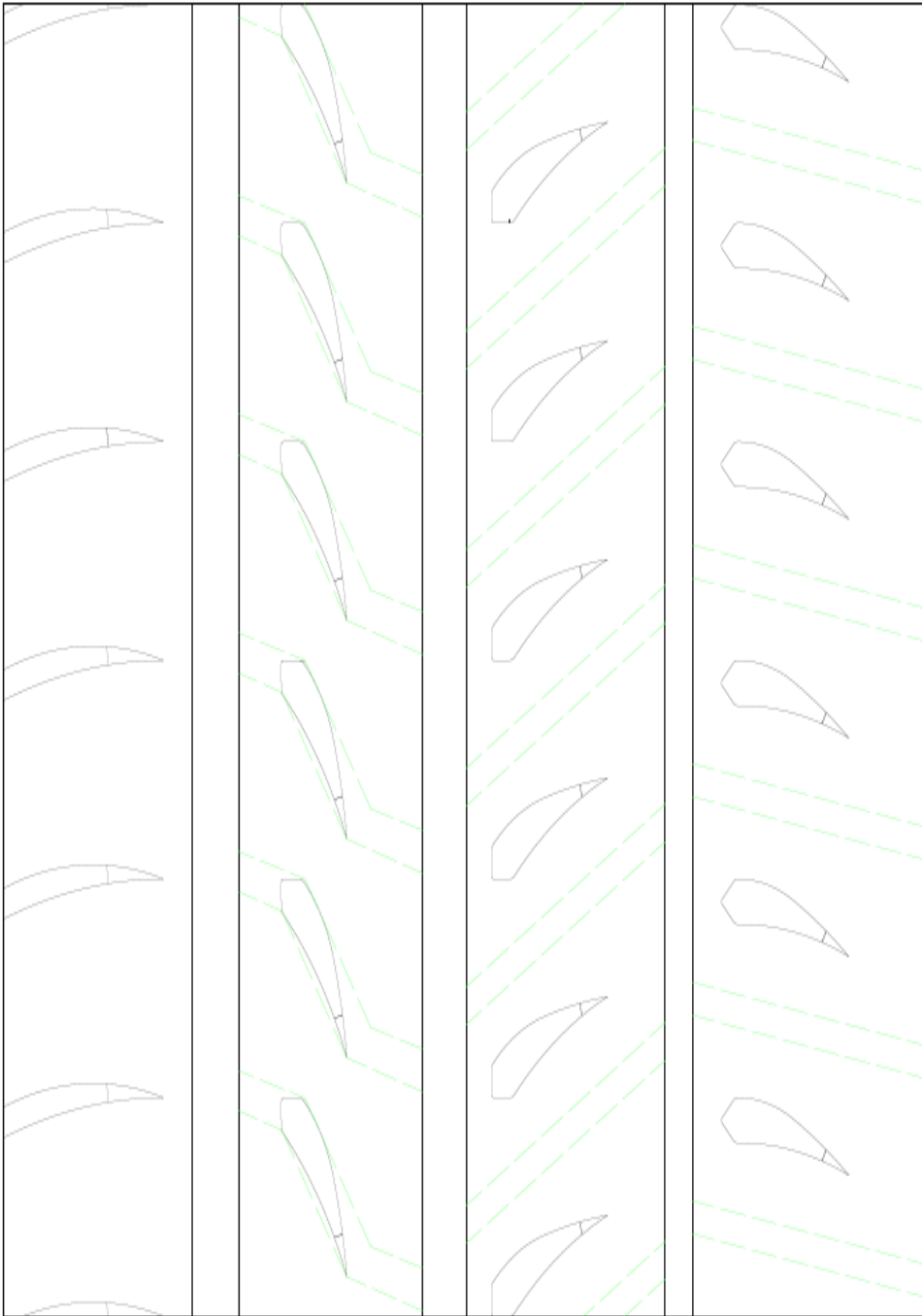
SCALE 2:1

\*Green Lines to Be Cut



**COOPERTIRES**

COOPER DISCOVERER TARMAC DT02 - 225/40R18 - WET CUTTING PATTERN – PHASE 2



Cut Groove Depth

SCALE 2:1

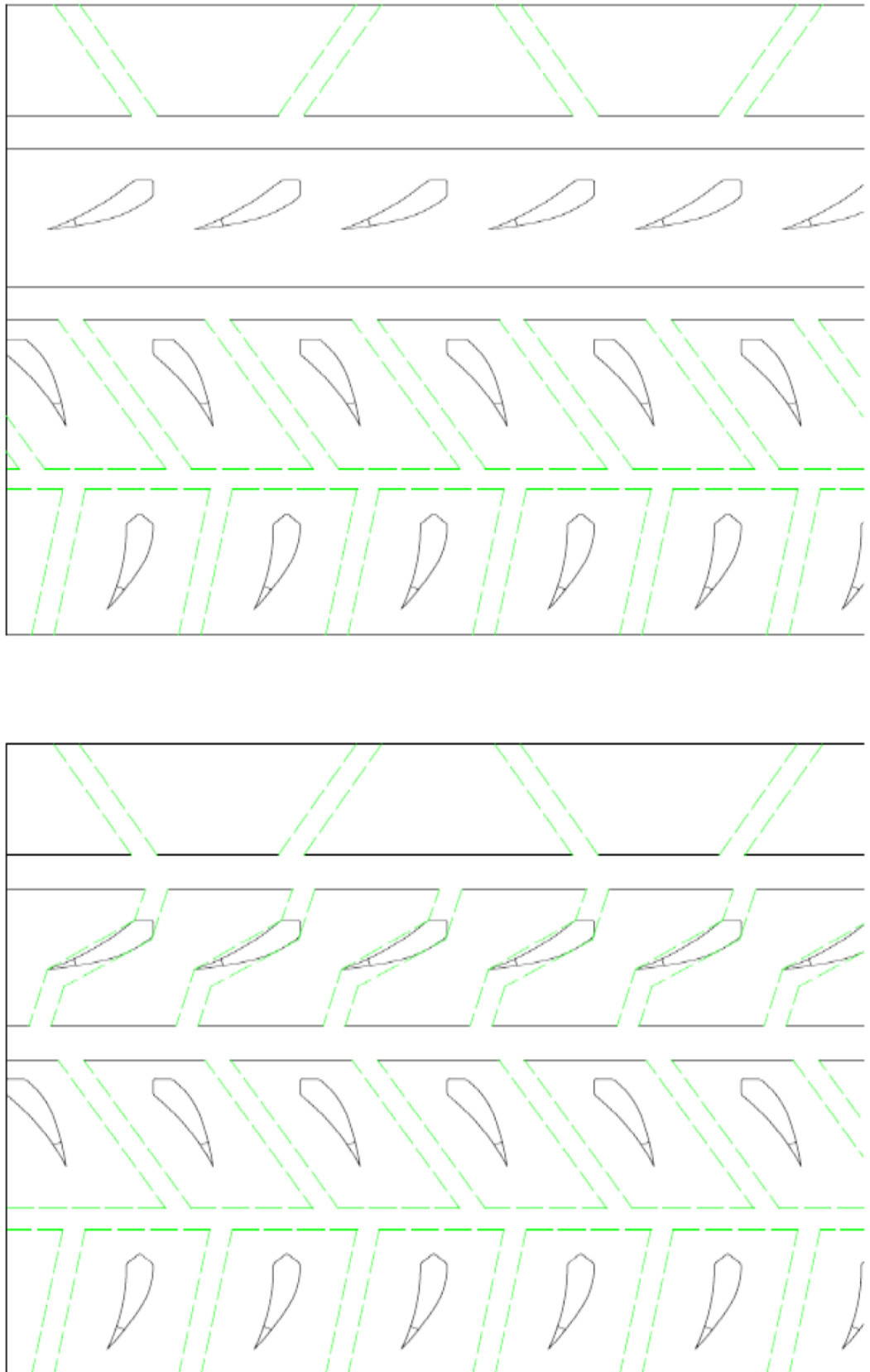
\*Green Lines to Be Cut



**COOPERTIRES**

COOPER DISCOVERER TARMAC DT1 - 205/45R17 - WET CUTTING PATTERN

DRAWING REFERENCES



Cut Groove Depth

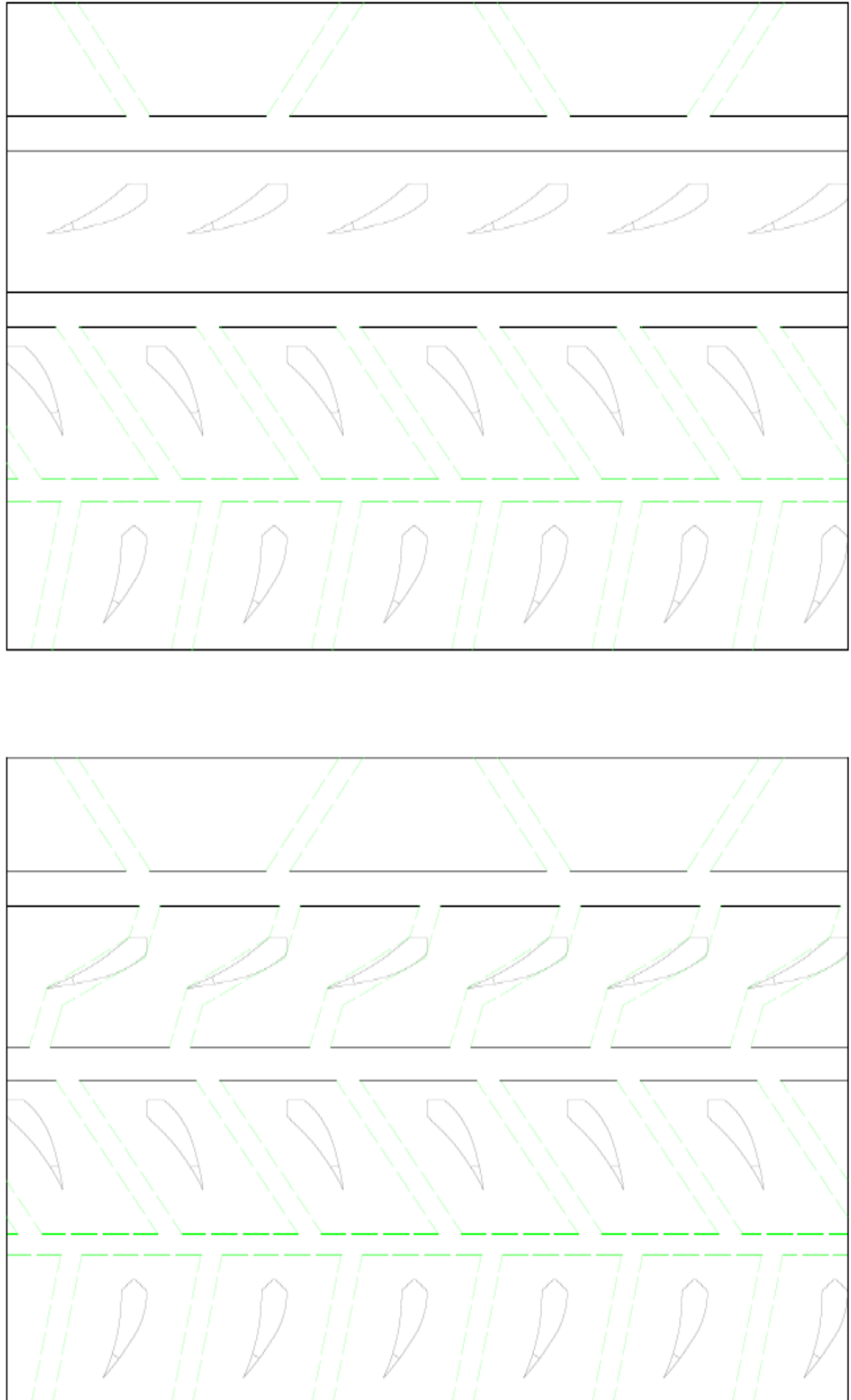
SCALE 2:1

\*Green Lines to Be Cut



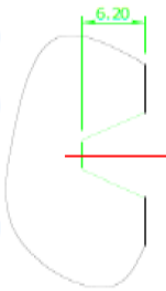
**COOPERTIRES**

COOPER DISCOVERER TARMAC DT1 - 195/50R16 - WET CUTTING PATTERN



Cut Groove Depth

SCALE 2:1



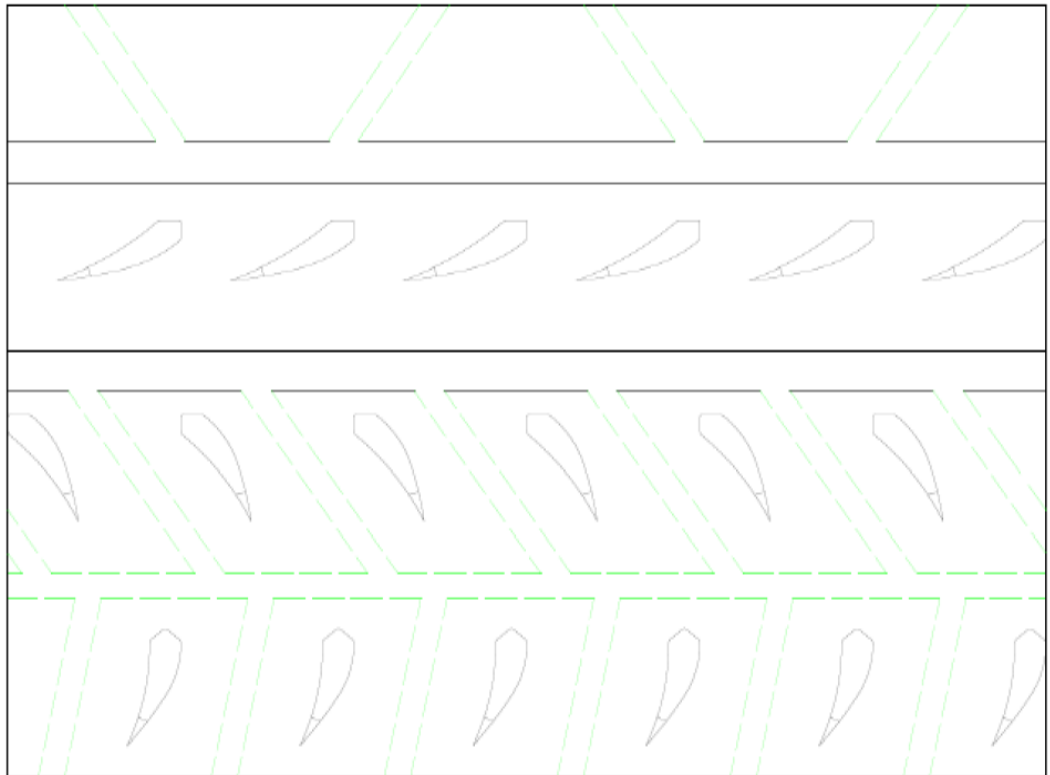
\*Green Lines to Be Cut



**COOPERTIRES**

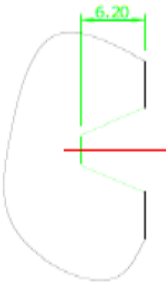
COOPER DISCOVERER TARMAC DT1 - 195/50R15 - WET CUTTING PATTERN

Intermediate



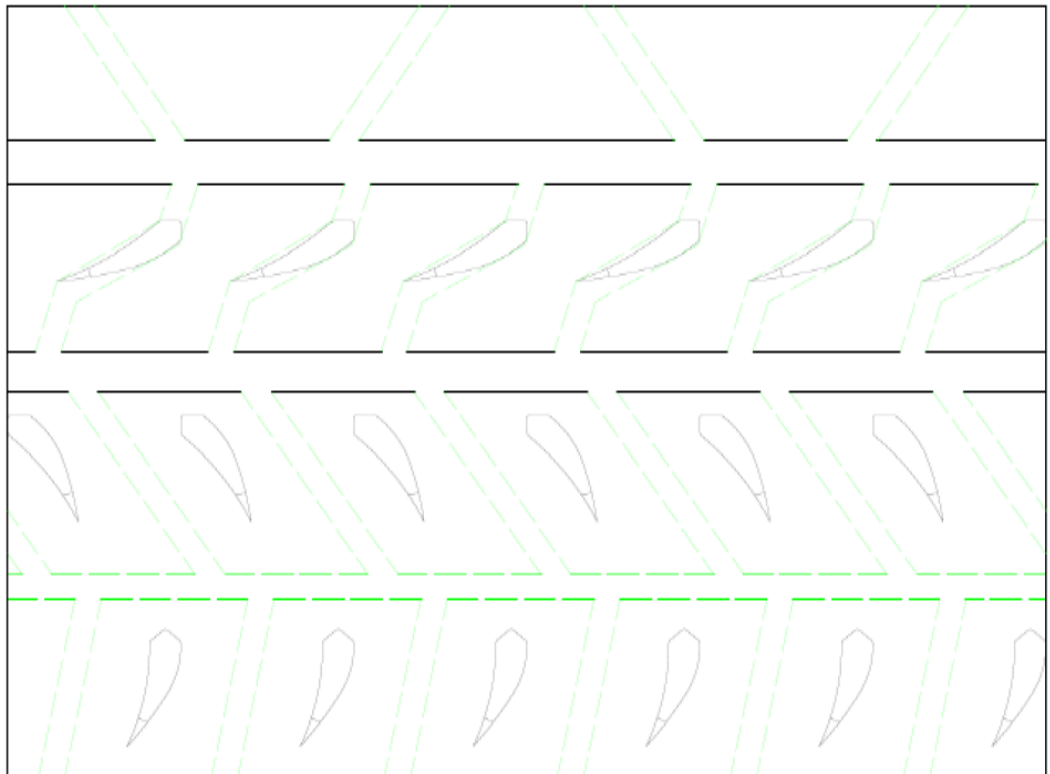
Cut Groove Depth

SCALE 2:1



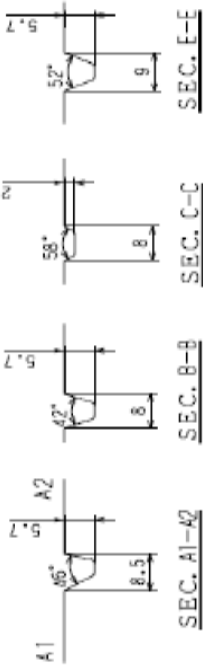
\*Green Lines to Be Cut

Full Wet



PRODUCT NAME  
YOKOHAMA ADVAN AD51T

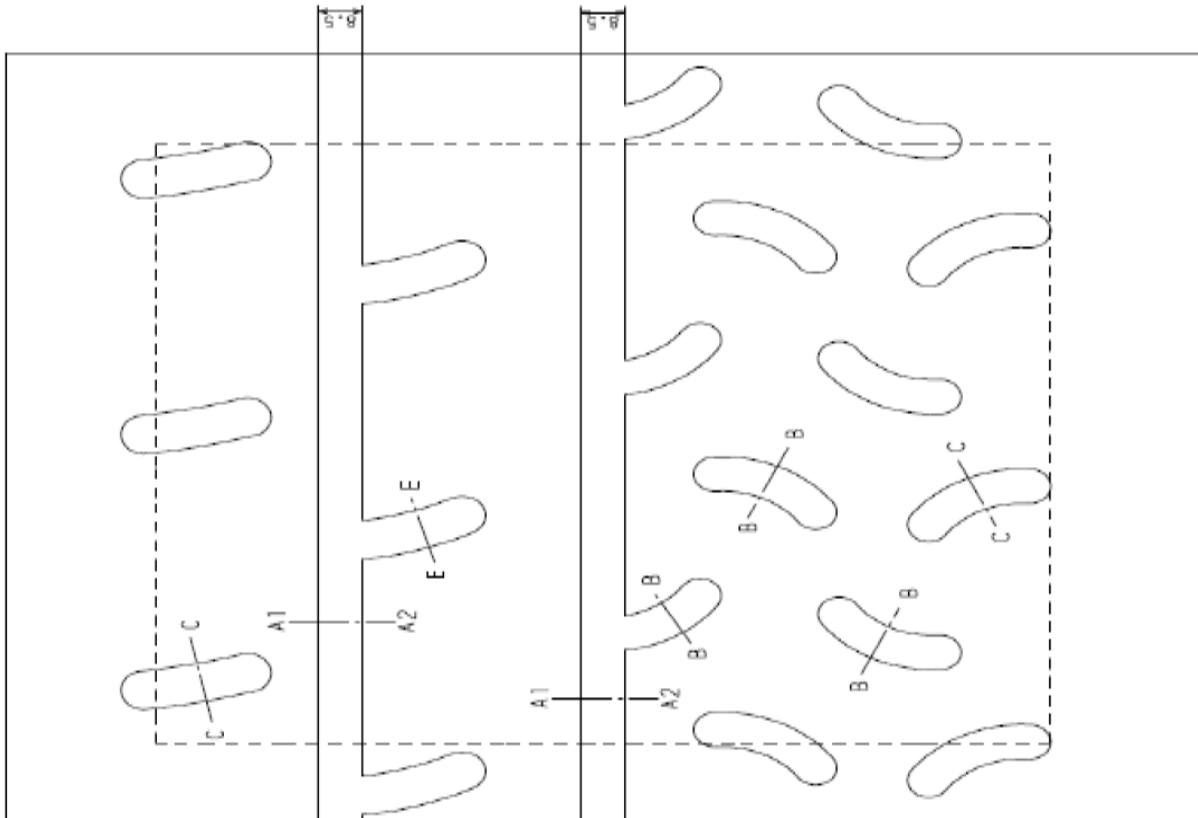
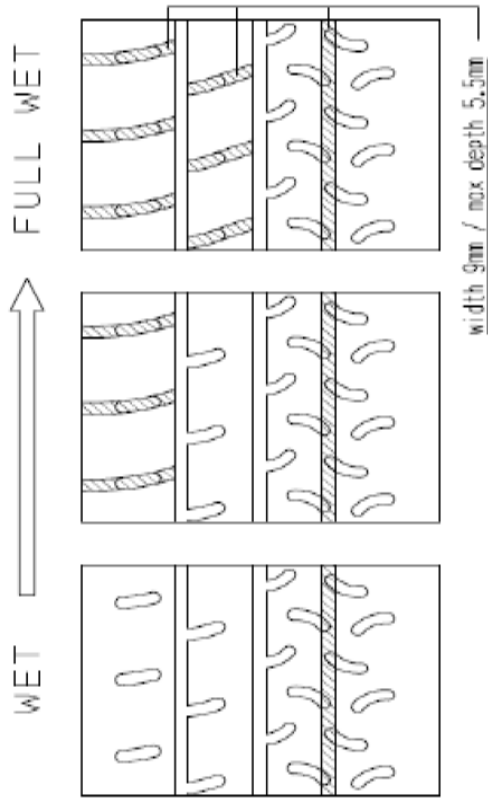
PATTERN NAME  
AD51A



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

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

**HAND-CUT GROOVE RECOMMENDATION**



**PRODUCT NAME**  
**YOKOHAMA ADVAN A051T**

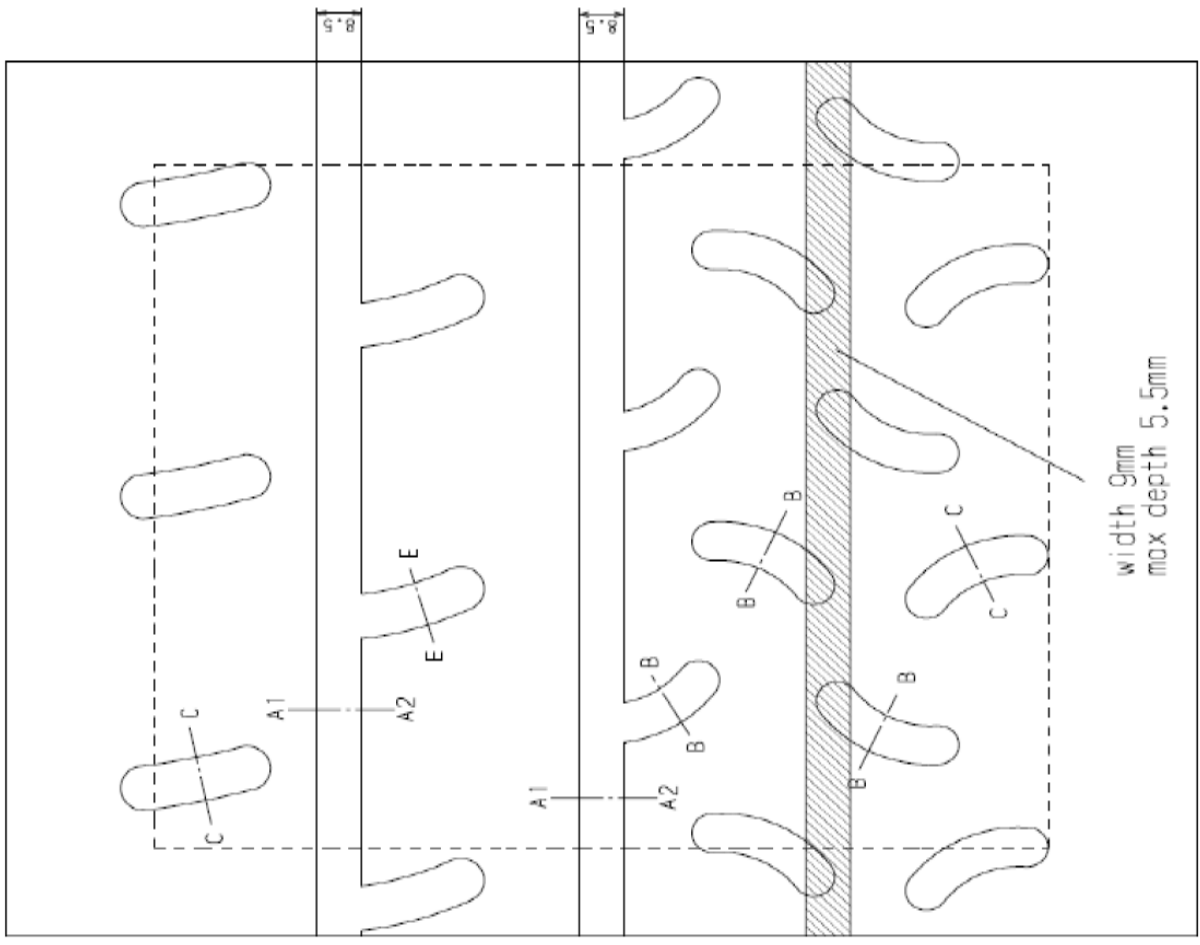
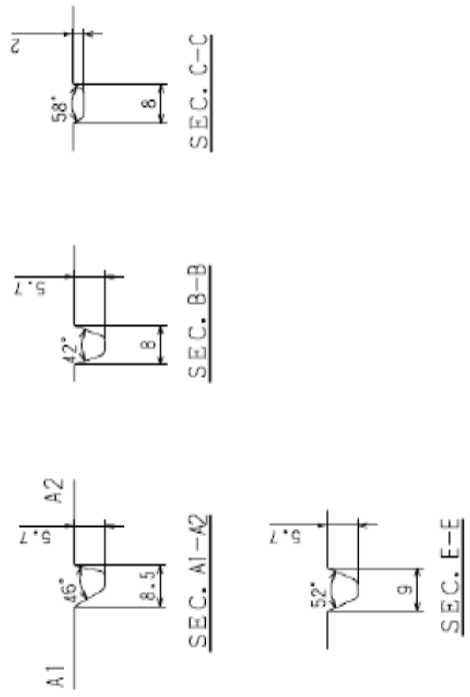
**PATTERN NAME**  
**A051A**

**SIZE 210/650R18**



**YOKOHAMA ADVAN A051T**  
**PATTERN NAME**  
**A051A**  
**SIZE 210/650R18**

# HAND-CUT GROOVE RECOMMENDATION



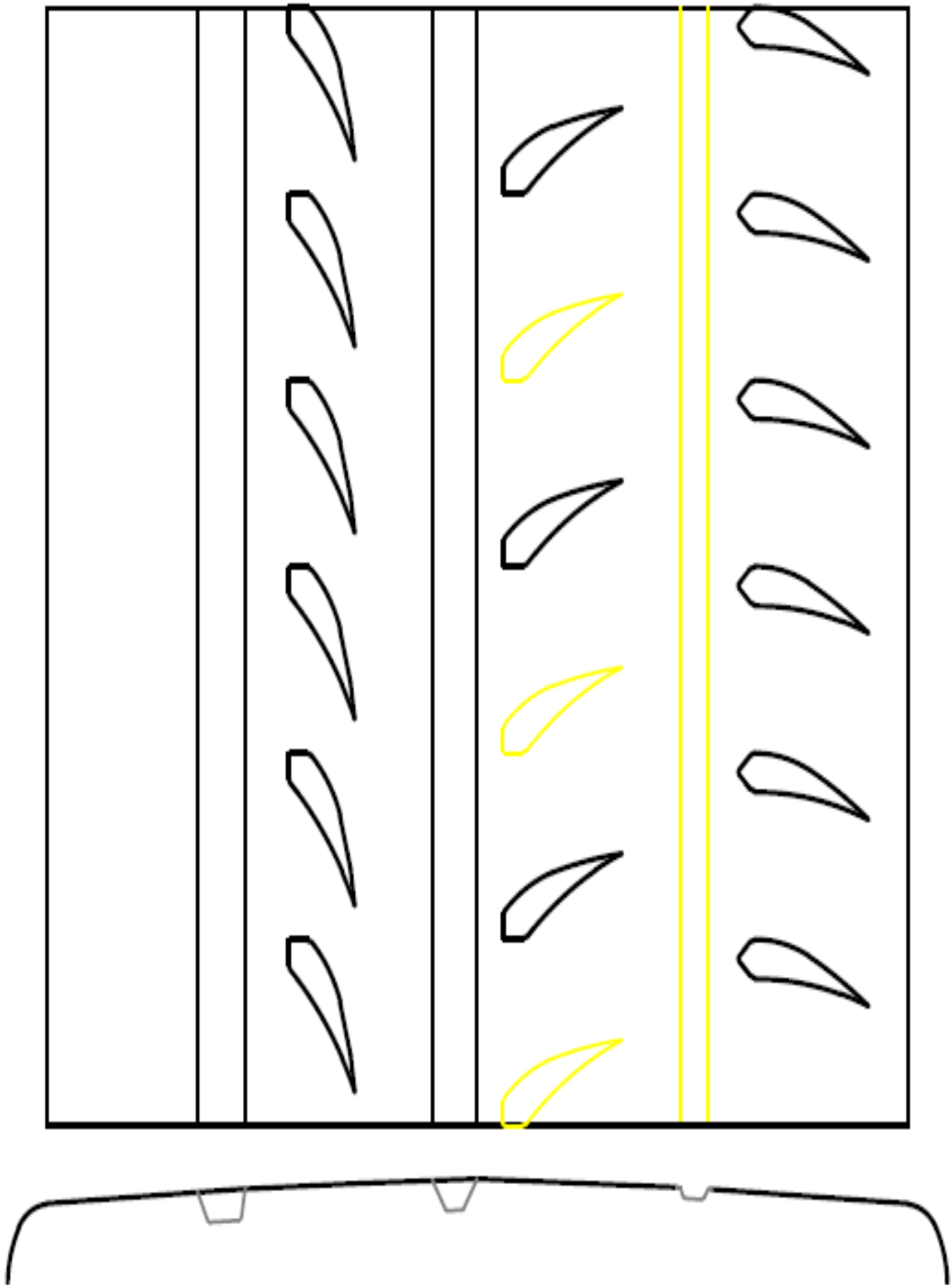
In the control area  
 5.5mm grooves-18.1%  
 Total grooves-22.2%  
 ----- Control area 170X140  
 Tyre weight 9.7kg

**PRODUCT NAME**  
**YOKOHAMA ADVAN A051T**

**PATTERN NAME**  
**A051A**

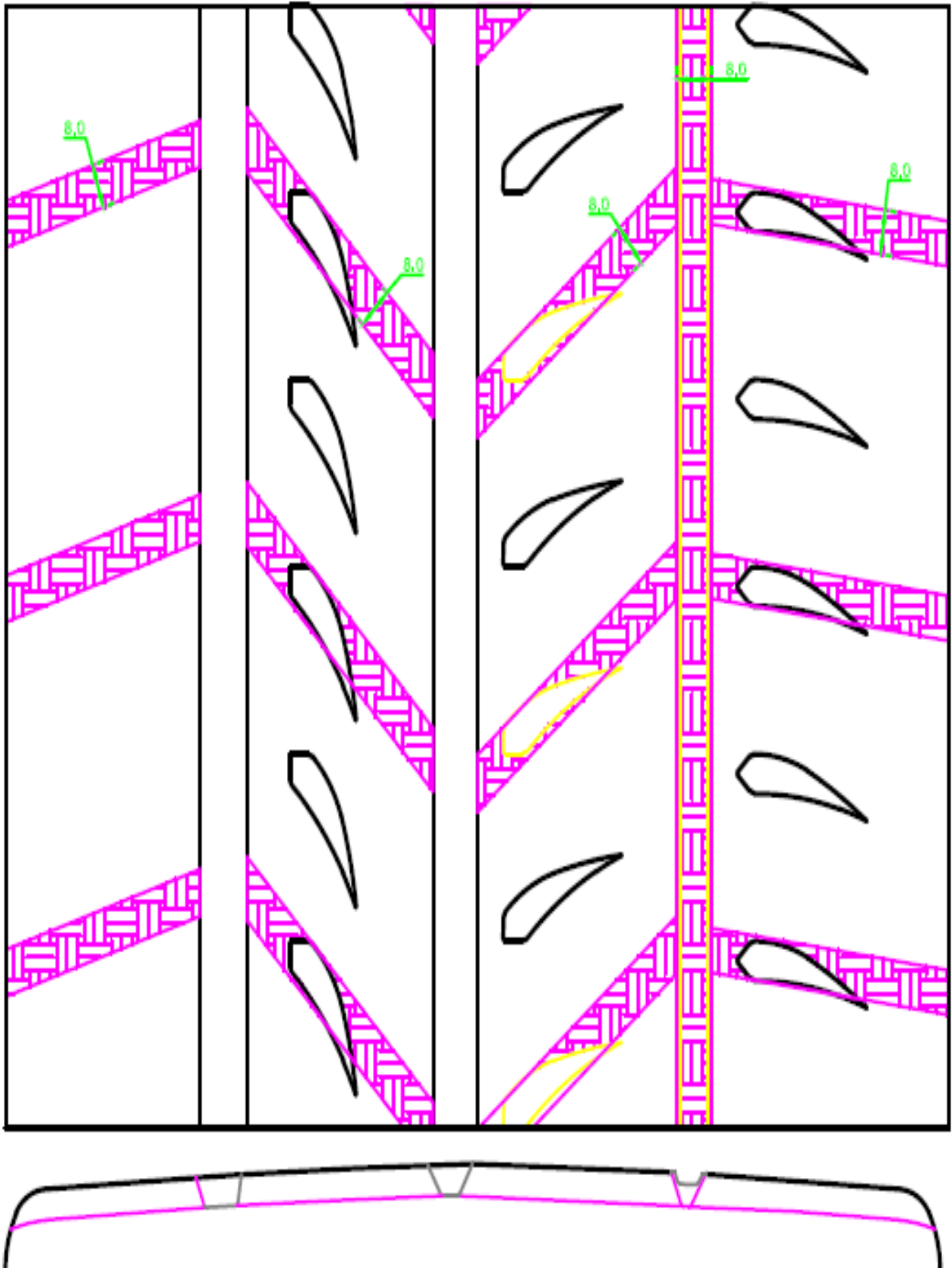
**SIZE 210/650R18**

# DMT RC2

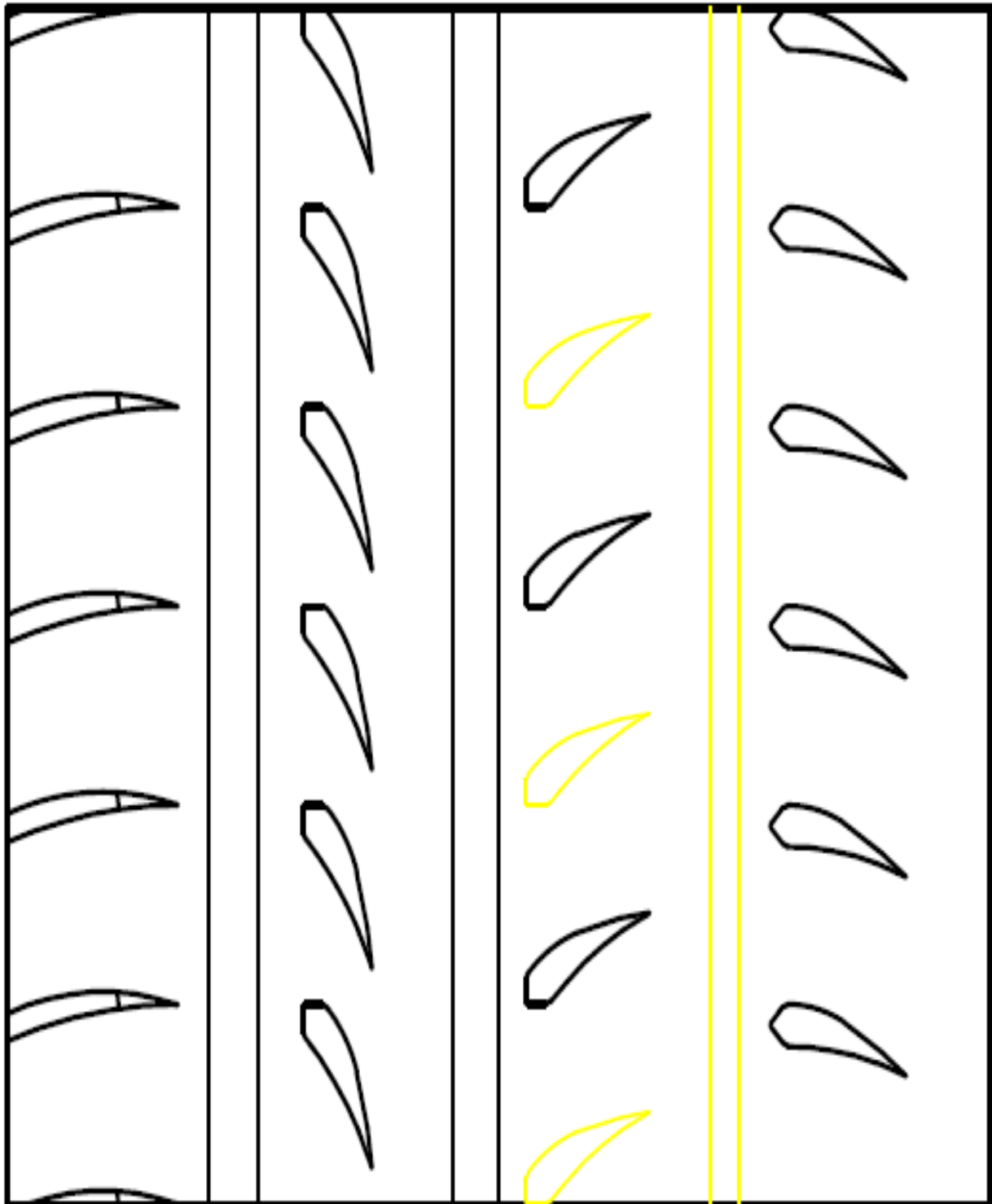




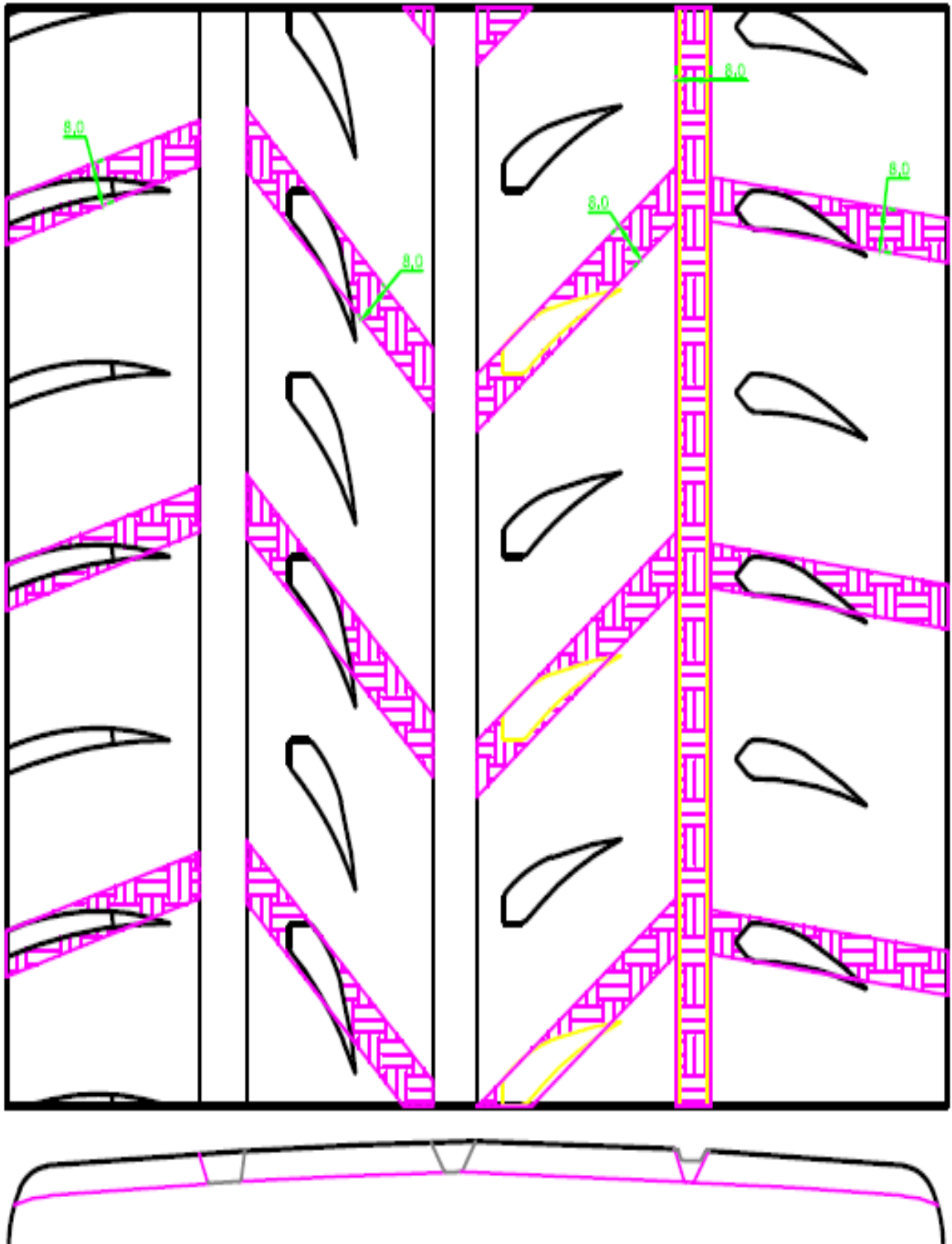
# DMT RC2 Wet Cut



# DMT RC22



# DMT RC22 Wet Cut



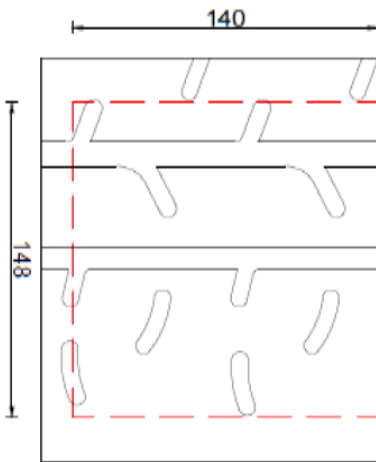




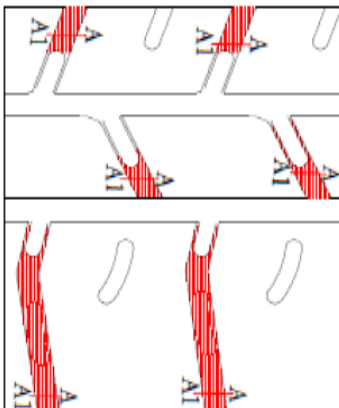


# 195/50 R16 Tarmac Rally - Hand Cut Pattern for Wet

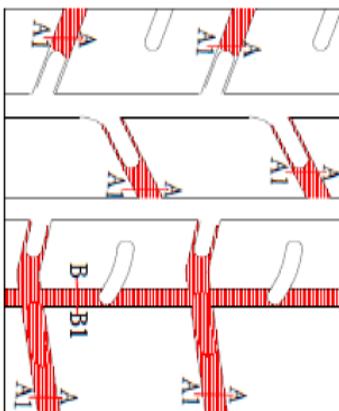
**Dry Pattern**  
Groove Ratio > 17%



**Light Rain**  
Groove Ratio > 27.5%



**Heavy Rain**  
Groove Ratio > 32.5%



Control area 148 x 140 mm (Dotted Line)

SECTION: A-A1

SECTION: B-B1

A-A1 - 10 mm  
B-B1 - 8 mm

Hand Cut Groove Portion

CLASS 8"  
RIM 6.5"

ITEM NO.	DESCRIPTION	QTY	UNIT
1	195/50R16 TARMAC RALLY - HAND CUT WET PATTERN	1	SET

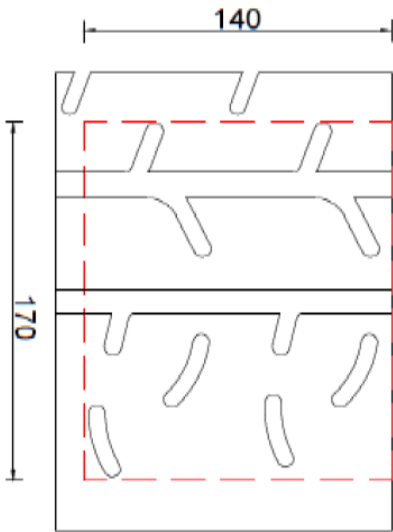
Hand Cut Groove Portion: This pattern is designed to provide maximum wet grip performance. The hand cut grooves are cut into the sipes and longitudinal grooves to provide additional biting edges. The hand cut grooves are cut to a depth of 10mm (A-A1) and 8mm (B-B1). The hand cut grooves are cut in a staggered pattern to provide maximum wet grip performance.



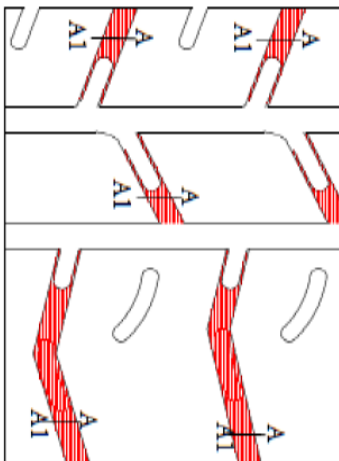


### 235/40 R18 Tarmac Rally - Hand Cut Pattern for Wet

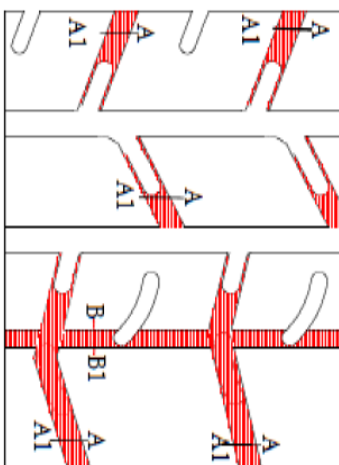
**Dry Pattern**  
Groove Ratio > 17%



**Light Rain**  
Groove Ratio > 27.5%



**Heavy Rain**  
Groove Ratio > 32.5%



Control area 170 x 140 mm (Dotted Line)

**SECTION: A-A1**



**SECTION: B-B1**



A-A1 - 10 mm  
B-B1 - 8 mm

Hand Cut Groove Portion

CLASS 9"  
RIM 8.0"

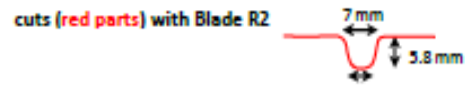
COMPANY		MRF TYRES	
DESIGN		235/40R18 ZTAL - HAND CUT WET PATTERN	
DATE		15/08/2018	
DRAWN BY		F A-0088	
CHECKED BY			
APPROVED BY			
SCALE		1:1	
SHEET NO.		1	
TOTAL SHEETS		1	



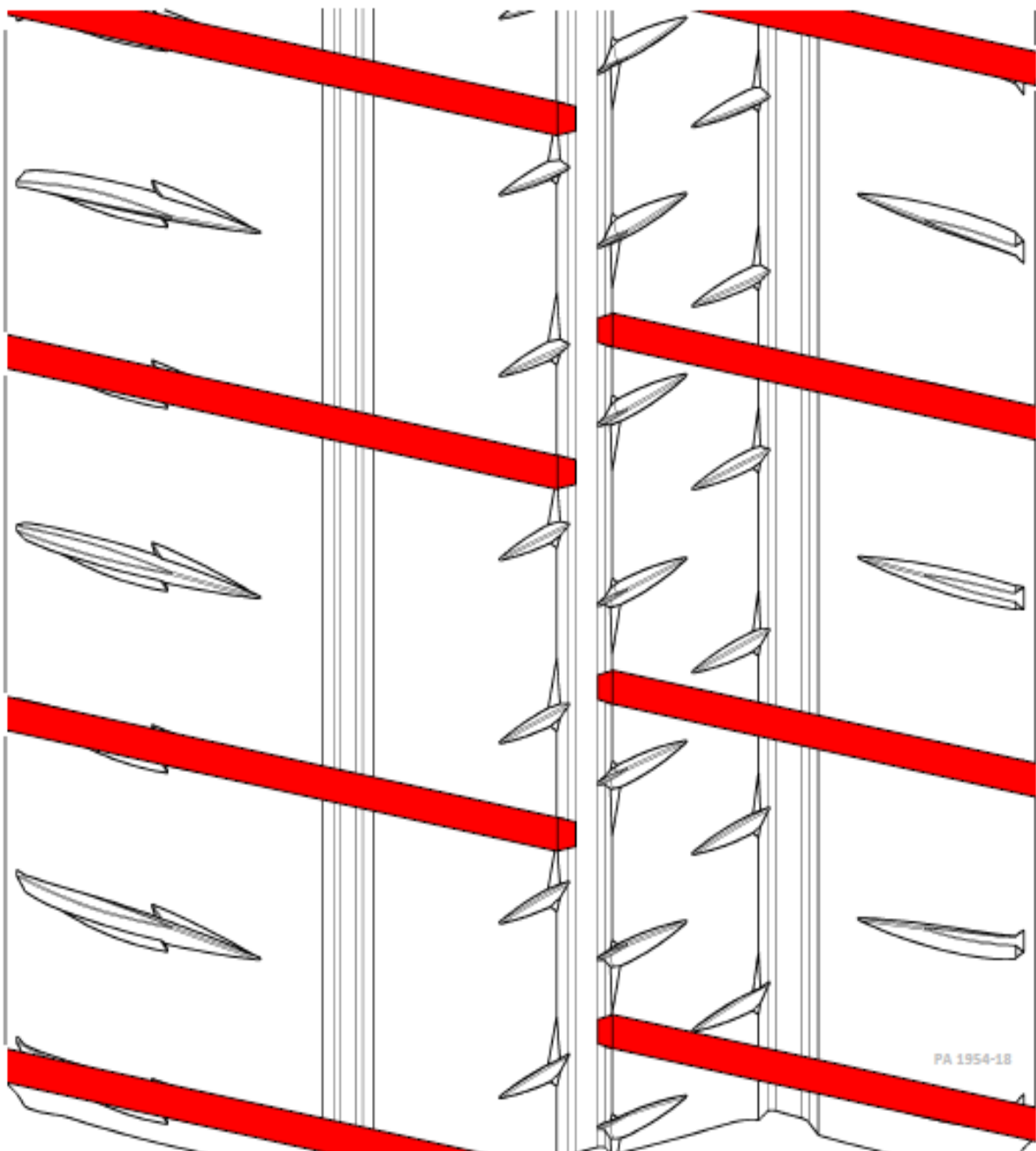


Category : GT Asphalt Rally  
Dimension : 24 / 65 – 18 TL PILOT SPORT R  
Cutting plan of Pilot Sport R tread pattern for RGT

Clermont-Ferrand the 20/05/2020



Extérieur véhicule



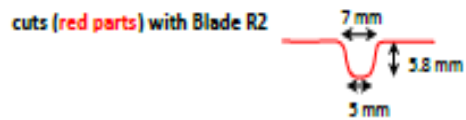


Catégorie : GT Asphalt Rally

Clermont-Ferrand the 20/05/2020

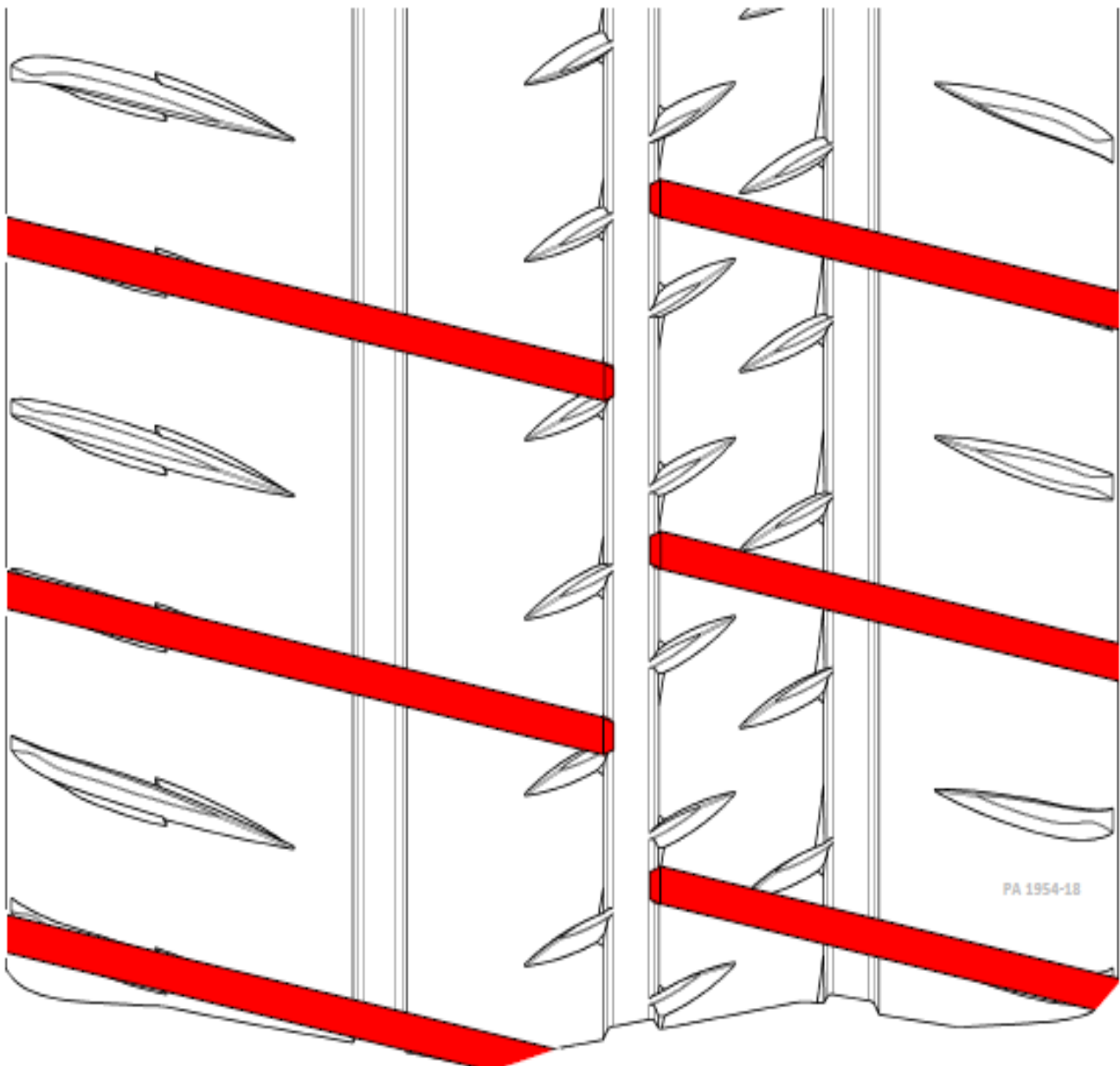
Dimension : 29 / 65 – 18 TL PILOT SPORT R

Cutting plan of Pilot Sport R tread pattern for RGT



Extérieur véhicule

Intérieur véhicule





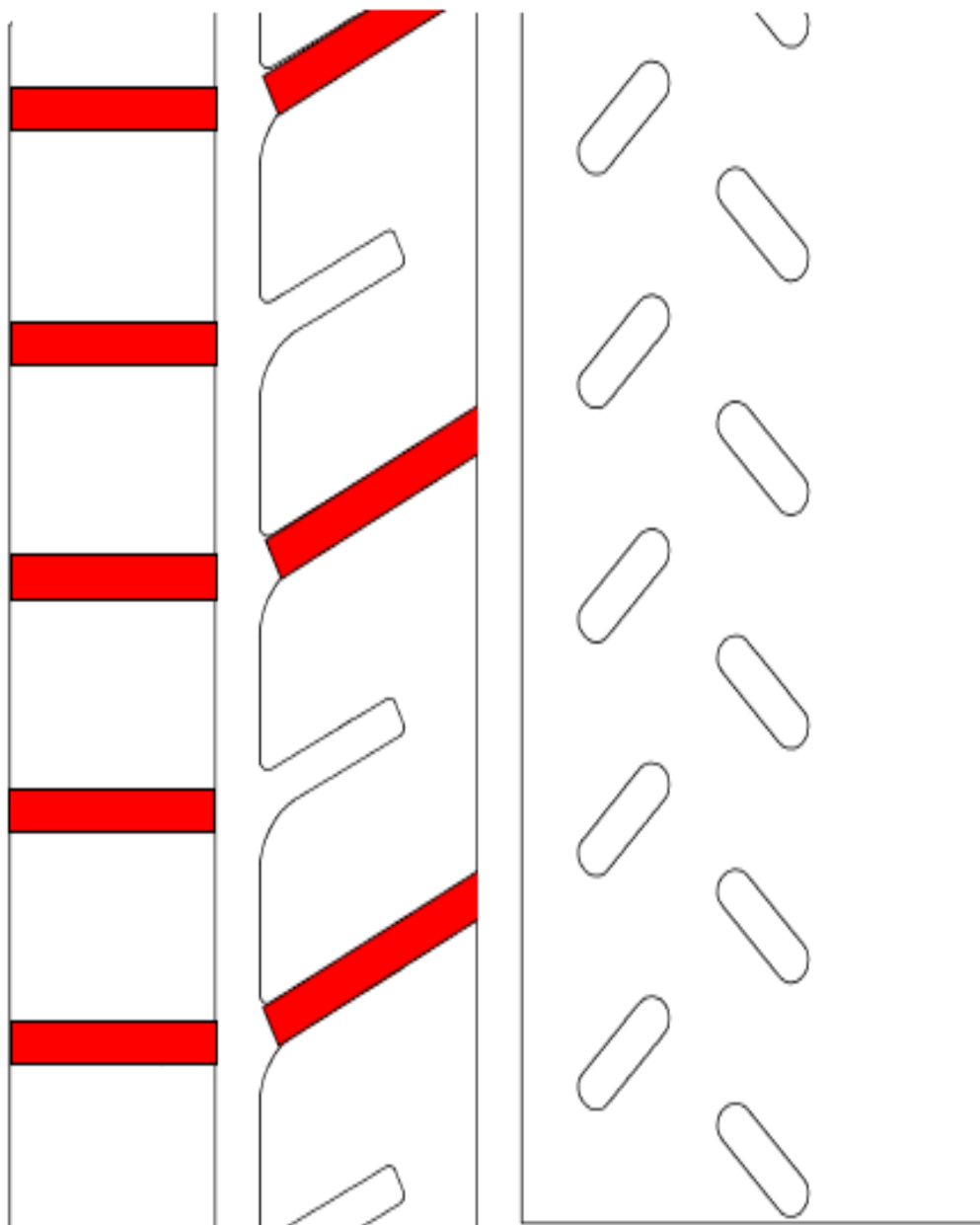
Category : Asphalt Rally

Clermont-Ferrand the 20/05/2020

Dimensions : 20/65-18, 20/63/17, 19/63-17, 19/60-16, 20/58-15, 19/58-15, 16/57-14

Cutting plan of Pilot Sport R tread pattern

cuts (red parts) with Blade R2



## ATUALIZAÇÕES

Art. / Data	Estado	Art. / Data	Estado	Art. / Data	Estado
ANEXO A/06.01	Atualizado	ANEXO A/04.05	Atualizado	4.6 a/21.6	Novo
4.6 b/21.6	Novo				

ANEXO A	<del>X6</del> <del>Grupo N5/N3/PROTO</del> <del>Viaturas com homologação FPAK e de outras ASN</del>											
ANEXO A	SC Classe <del>17</del> - até 2000cc											
ANEXO A	RALLY5	RC5	P2	RALLY5 Atmosférico + 1600cc e Turbo + 1067cc	Viaturas Grupo R1 <del>Homologação antes de 31/12/2018</del> conforme Art.260 Anexo J	1030/1080	✔	✔	✔	✔	✔	✔