



THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

COMMUNICATION CONCERNING THE APPROVAL GRANTED ⁽⁴⁾/~~APPROVAL EXTENDED ⁽⁴⁾/~~
~~APPROVAL REFUSED ⁽⁴⁾/~~ ~~APPROVAL WITHDRAWN ⁽⁴⁾/~~ ~~PRODUCTION DEFINITELY~~
~~DISCONTINUED ⁽⁴⁾~~ OF A LATERAL PROTECTION DEVICE (LPD) PURSUANT TO PART II OF
REGULATION NO. 73.01



Approval No: E11 73R-011018

Extension No: Not Applicable

1. Trade name or mark of LPD: Aalco
2. Type of LPD: Aalco Sideguard
3. Name and address of manufacturer:
Aalco Metals Ltd
25 High Street
Cobham
Surrey
KT11 3DH
United Kingdom
4. If applicable, name and address of manufacturer's representative: Not Applicable
5. Characteristics of the LPD (dimensions and its links): See Manufacturer's Documents
6. Test conducted on a ~~rigid bench/on a vehicle/~~ on a representative part of the vehicle: ⁽¹⁾
7. Position on the LPD of the points of application of the test forces: Front, middle between legs, rear.
8. Vehicle category on which the LPD may be installed: N2, N3, O3, O4

Job No: VSM251144

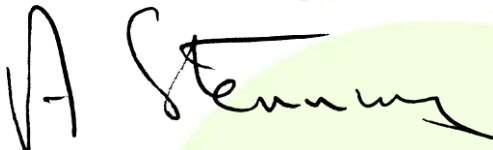


- 9. Device submitted for approval on: 09 August 2012
- 10. Technical service responsible for conducting approval tests: Vehicle Certification Agency
- 11. Date of report issued by that service: 09 August 2012
- 12. Number of report issued by that service: VSM251144
- 13. Approval: ~~GRANTED/REFUSED/EXTENDED/WITHDRAWN~~: ⁽¹⁾
- 14. Position of approval mark on the LPD: On the rail, pillar and legs.

15. Place: BRISTOL

16. Date: 11 JULY 2013

17. Signature:



A. W. STENNING
Head of Technical and Quality Support Group

18. The following documents, bearing the approval number shown above, are available upon request.

Any remarks:

(1) Strike out what does not apply

Aalco Metals Ltd - *aalco*

APPLICATION TO NEW APPROVAL
(Separate Technical Unit)

ECE Reg 73.01 - Part 2

VCA Job No: VSM251144



Information document for approval of lateral protection device
(LPD) pursuant to Part II of Regulation No. 73

VCA Job No: VSM251144

0. GENERAL

- 0.1. Make (trade name of manufacturer): Aalco Metals Ltd
- 0.2. Type and general commercial description(s): SG132 & SG105
- 0.5. Name and address of manufacturer: Aalco Metals Ltd
25 High Street
Cobham
Surrey
KT11 3DH
- 0.7. In the case of components and separate technical units, location and method of affixing the EC approval mark: On either end of the rear of the rails SG132 & SG105, on each SGP132 Pedestrian Pillar and on each leg SGL500 & SGL700.
- 0.8. Name and address of assembly plant: See Section 0.5
- 0.9: Name and address of manufacturers representative: N/A

1. GENERAL CONSTRUCTION CHARACTERISTICS OF THE DEVICE

- 1.5. Material used for side members: Aluminium Alloy 6063T6

2. VEHICLE CATEGORIES TO WHICH THE UNIT APPLIES

- 2.1 Categories N2, N3, O3, O4

9. BODYWORK

- 9.2 Materials used and methods of construction: Minimum: 100mm X 50mm X 2.3mm
Aluminium Alloy or Galvanised Steel Cross Member
- 9.3 Characteristics of Lateral Protection Device: Drawings: CF-97-105, 105836A, GPM9502, 105837, CP55-35, TK3011, MIS-OV650.
- Other Components: EC-SG132 ABS End Cap, REC-SGP132 ABS Cap M8 x 25mm
Cup Square Bolts c/w Nylock Nuts



Annex:

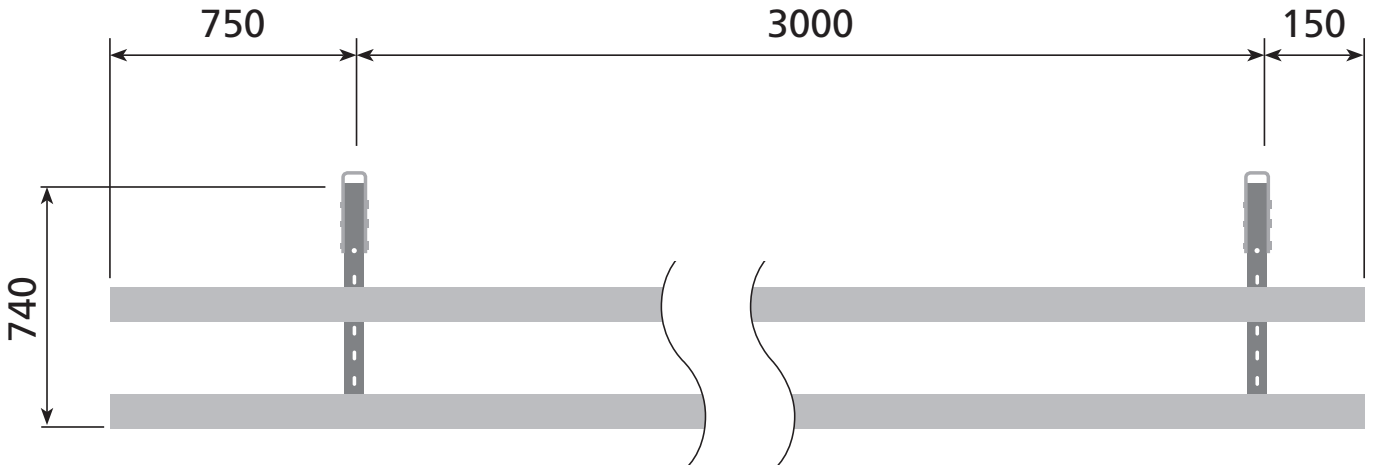
- Technical Drawing of Main Parts and Assembly (with material spec)
- Fitting Instructions



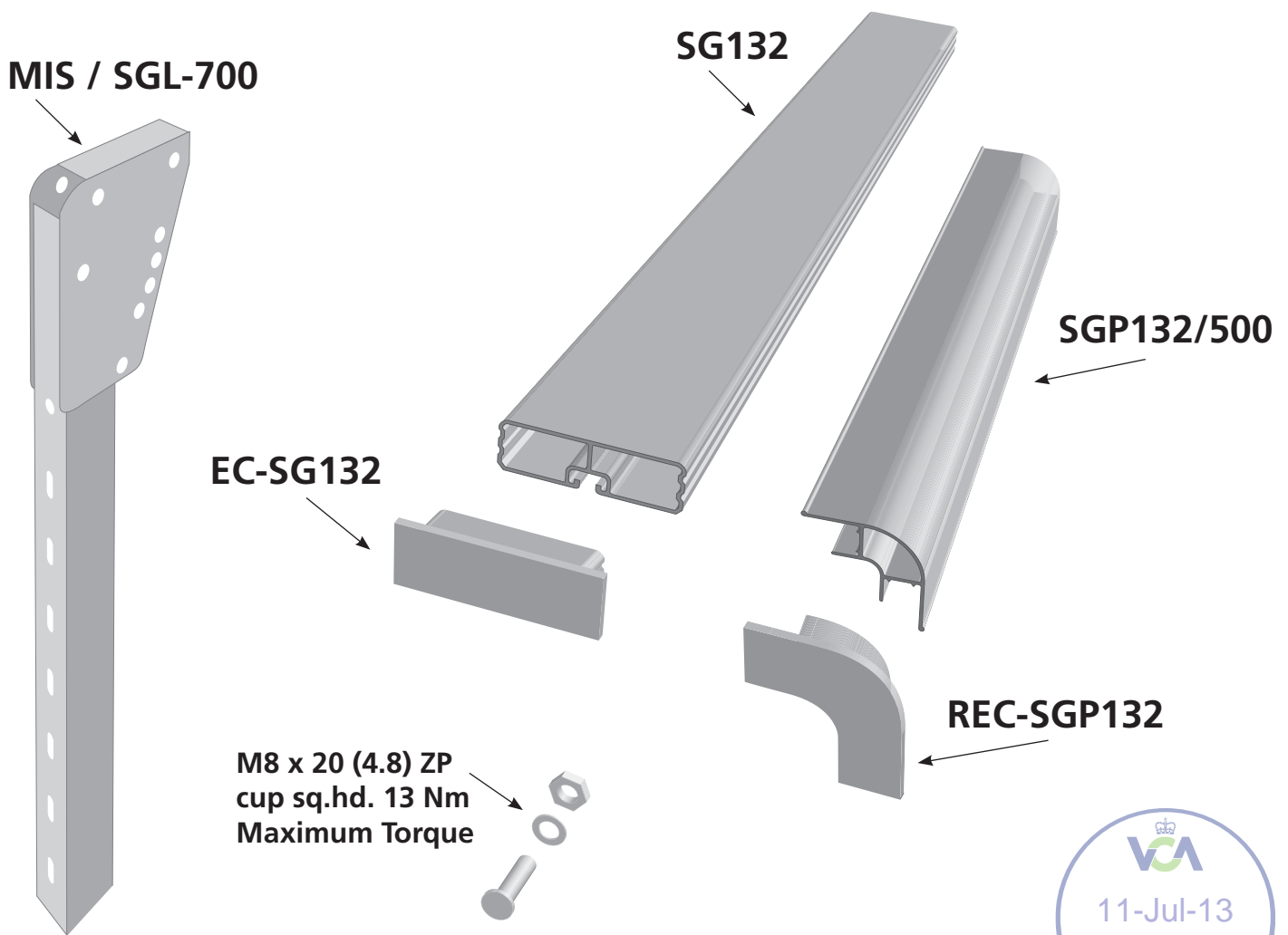
Installation guide

*(All dimensions are shown in mm.
Diagrams not to scale)*

SG132 / MIS / SGL-700



Components list



Assembly instructions

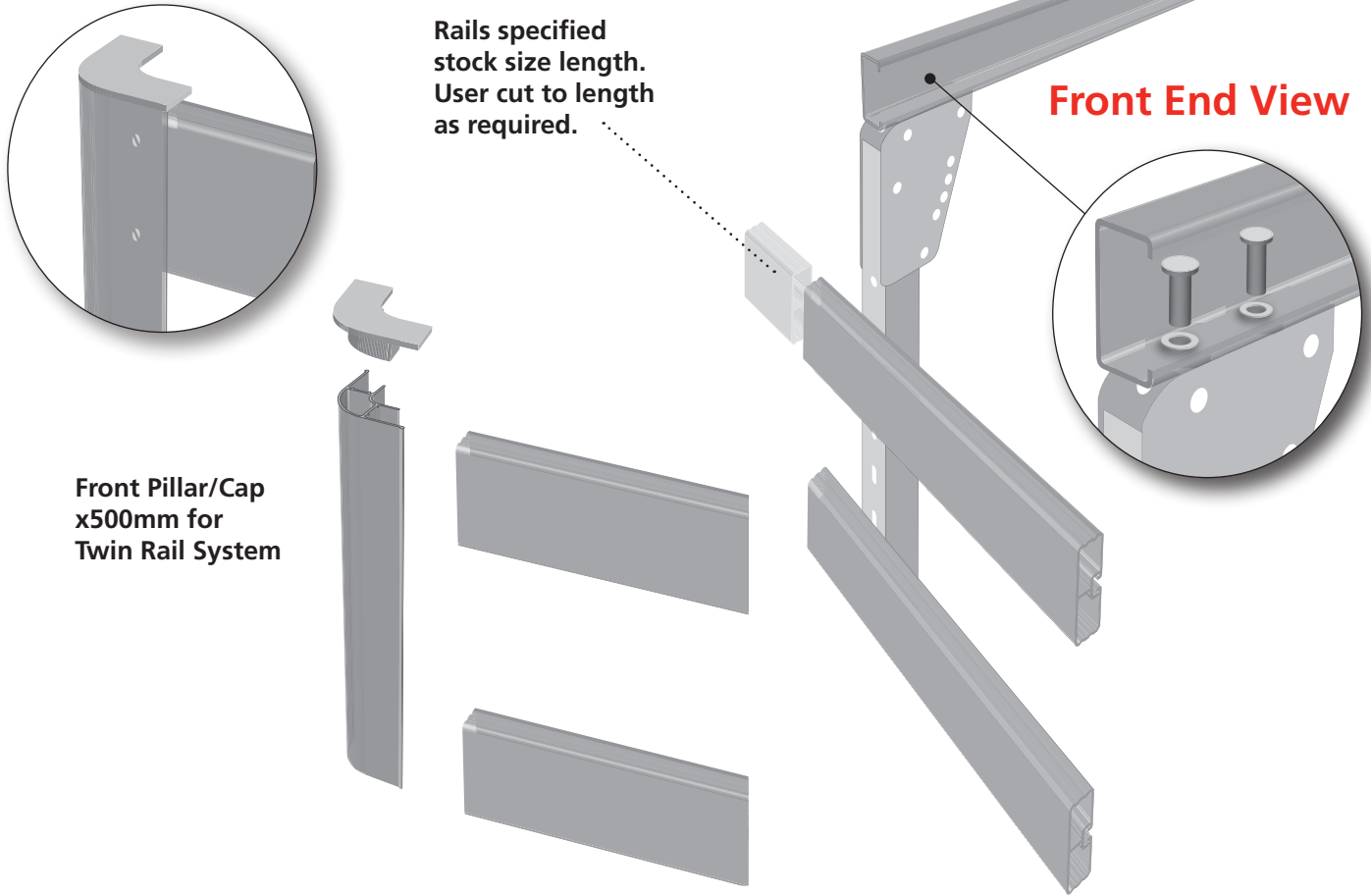
*(All dimensions are shown in mm.
Diagrams not to scale)*

SG132 / MIS / SGL-700

Min. Bearer
Galv = 2.0mm thick
Alu = 3.0mm thick

Rails specified
stock size length.
User cut to length
as required.

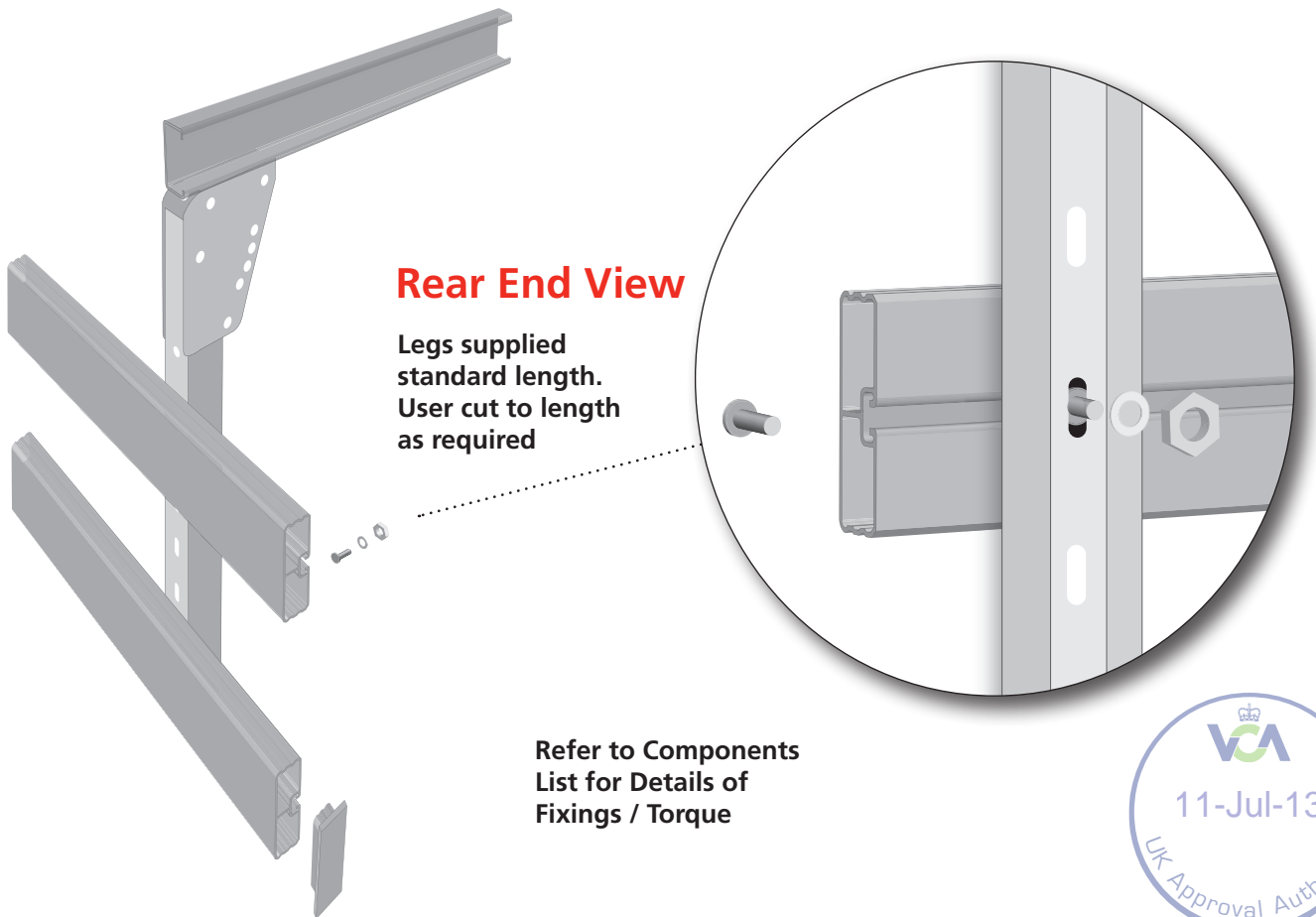
Front End View



**Front Pillar/Cap
x500mm for
Twin Rail System**

Rear End View

Legs supplied
standard length.
User cut to length
as required



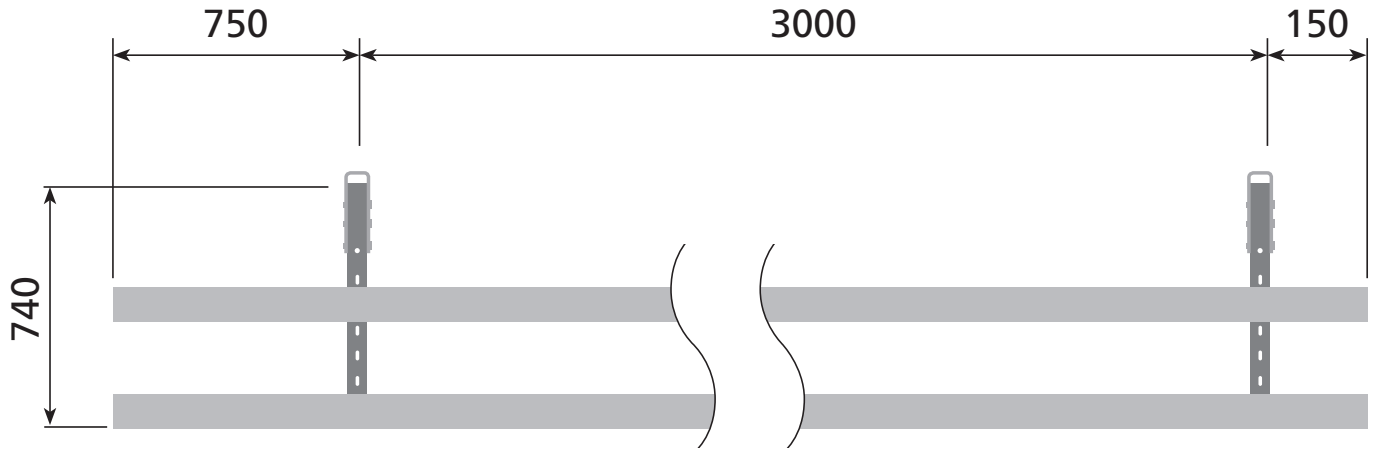
**Refer to Components
List for Details of
Fixings / Torque**



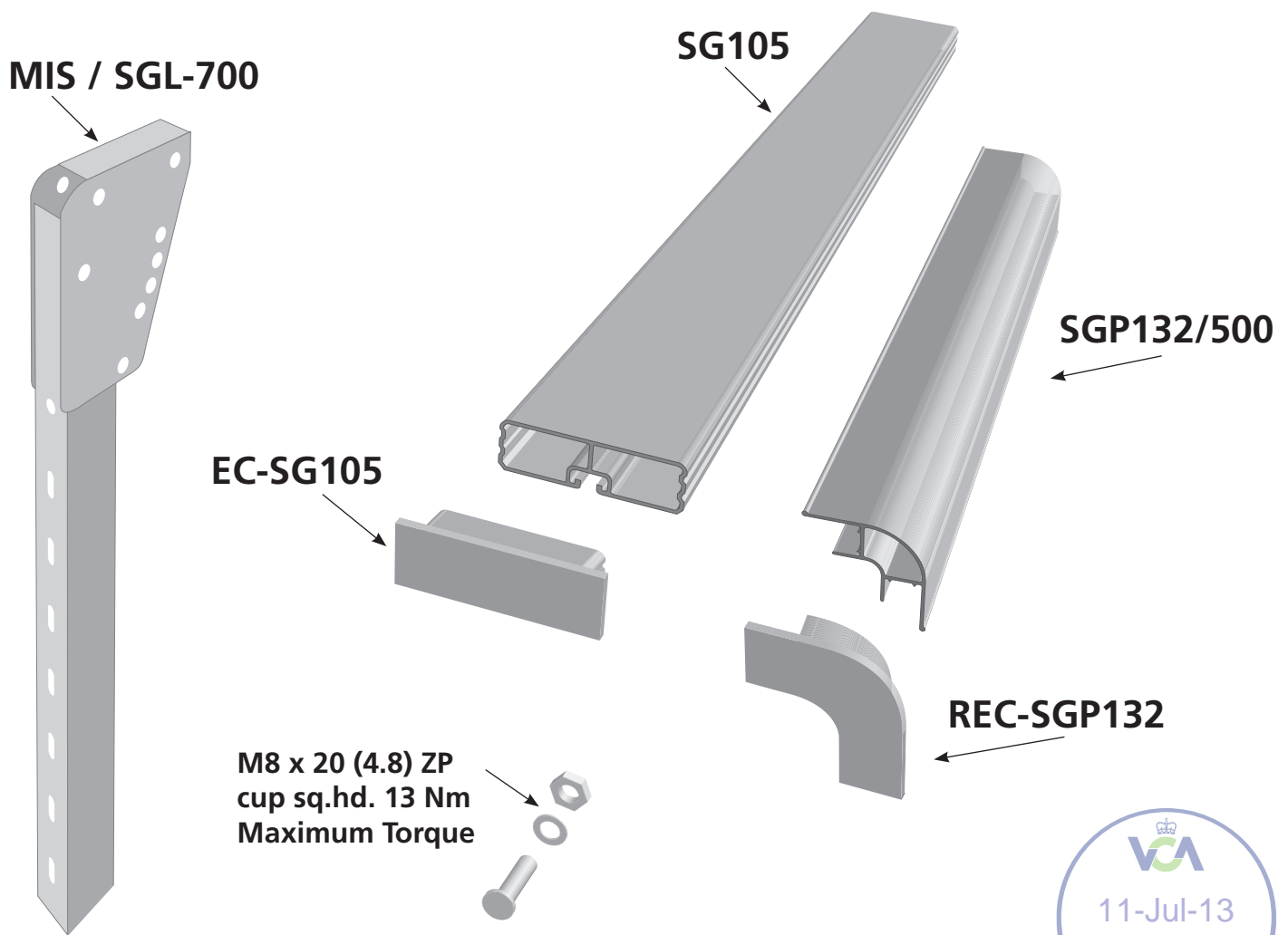
Installation guide

*(All dimensions are shown in mm.
Diagrams not to scale)*

SG105 / MIS / SGL-700



Components list



Assembly instructions

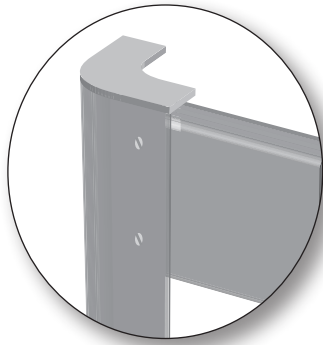
*(All dimensions are shown in mm.
Diagrams not to scale)*

SG105 / MIS / SGL-700

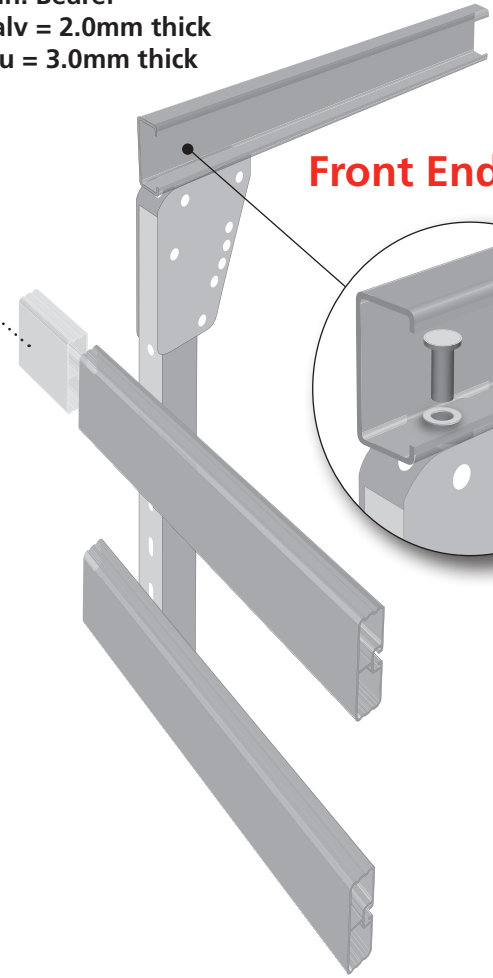
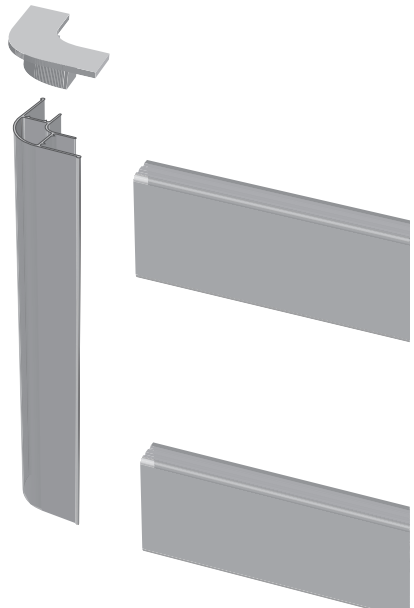
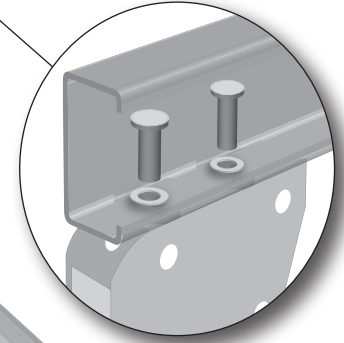
Min. Bearer
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Alu = 3.0mm thick

Rails specified
stock size length.
User cut to length
as required.

Front End View

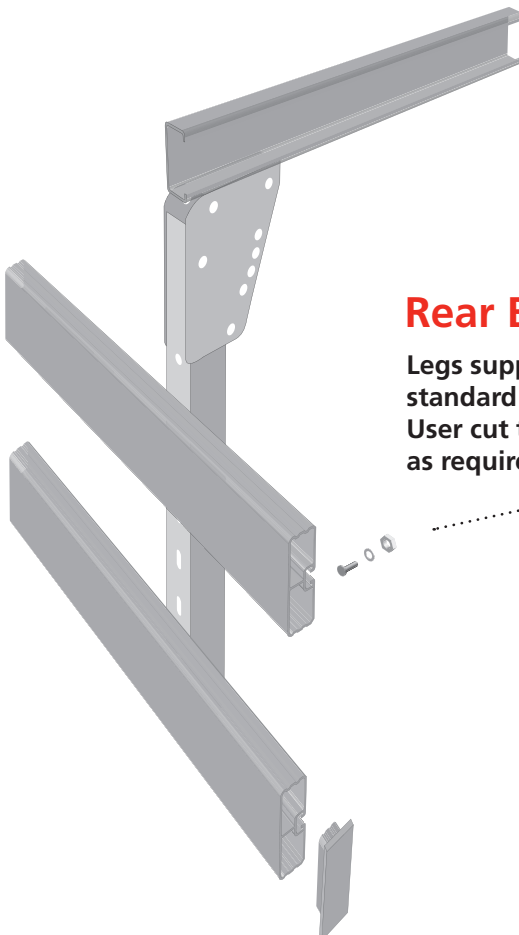


**Front Pillar/Cap
x500mm for
Twin Rail System**



Rear End View

Legs supplied
standard length.
User cut to length
as required



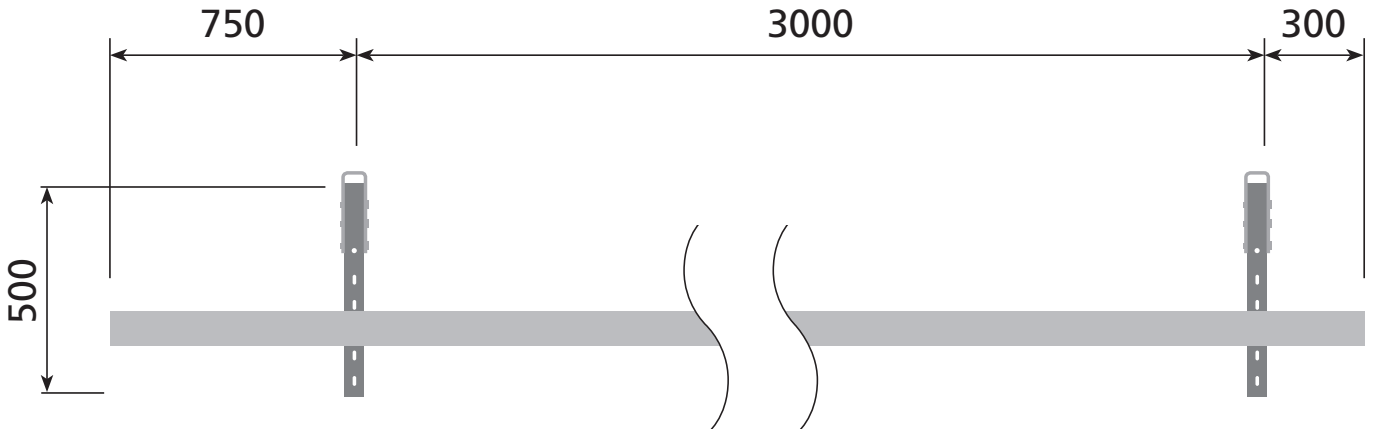
**Refer to Components
List for Details of
Fixings / Torque**



Installation guide

*(All dimensions are shown in mm.
Diagrams not to scale)*

SG132 / MIS / TK / SGL-500



Components list

**TK / SGL-500
MIS / SGL-500**

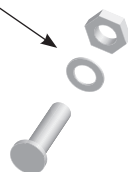
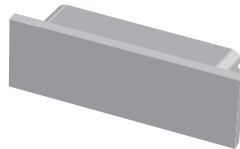
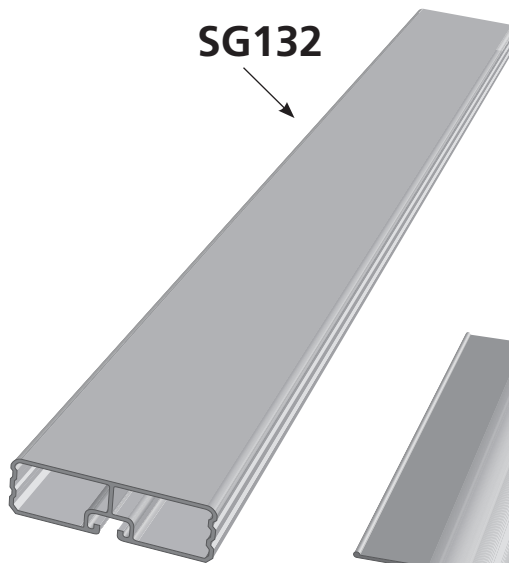
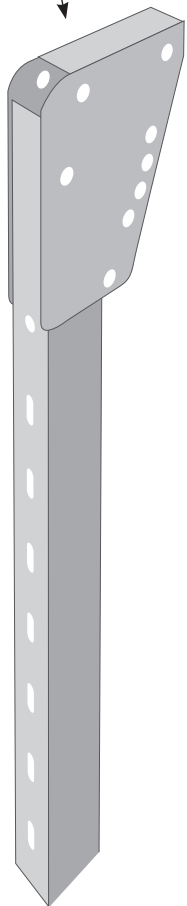
SG132

SGP132/100

EC-SG132

REC-SGP132

**M8 x 20 (4.8) ZP
cup sq.hd. 13 Nm
Maximum Torque**

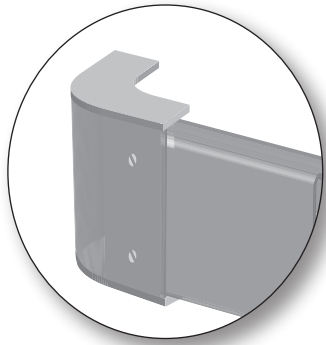


Assembly instructions

*(All dimensions are shown in mm.
Diagrams not to scale)*

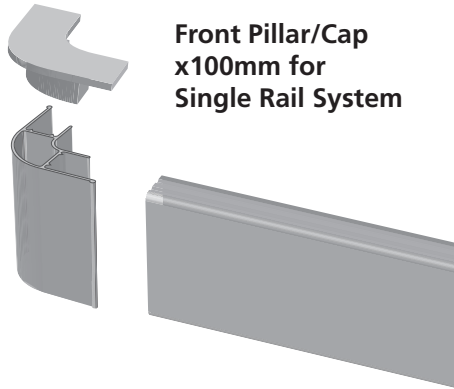
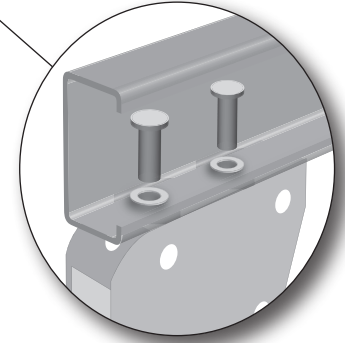
SG132 / MIS / TK / SGL-500

Min. Bearer
Galv = 2.0mm thick
Alu = 3.0mm thick

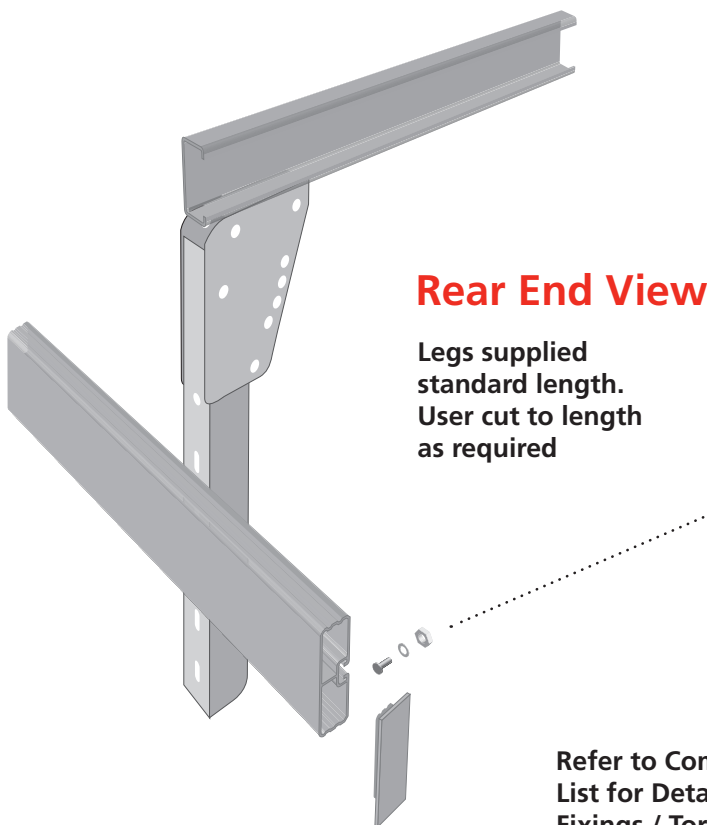


Rails specified stock size length. User cut to length as required.

Front End View



Front Pillar/Cap
x100mm for
Single Rail System



Rear End View

Legs supplied standard length. User cut to length as required



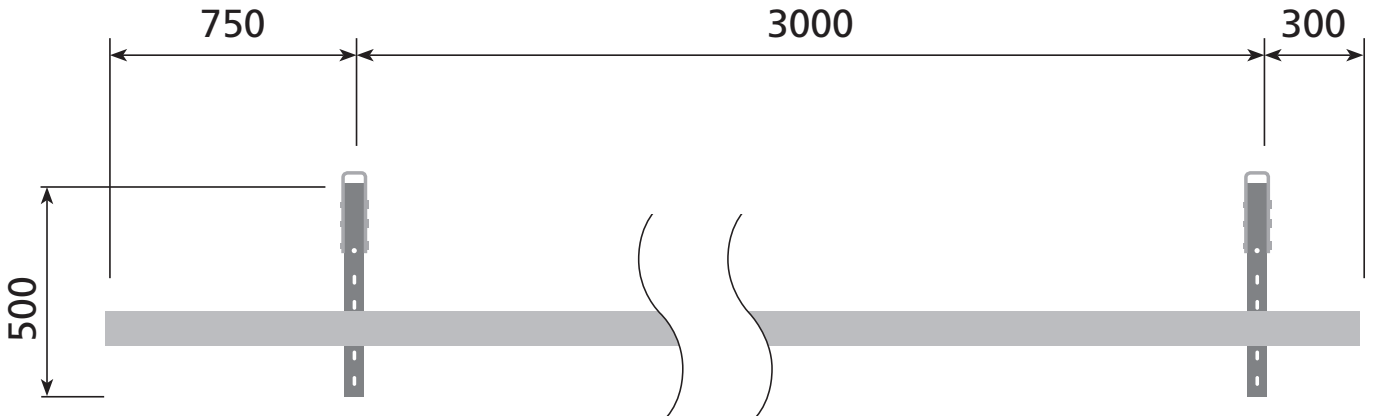
Refer to Components List for Details of Fixings / Torque



Installation guide

*(All dimensions are shown in mm.
Diagrams not to scale)*

SG105 / MIS / TK / SGL-500



Components list

**TK / SGL-500
MIS / SGL-700**

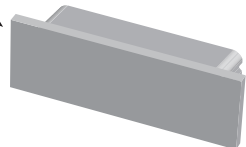
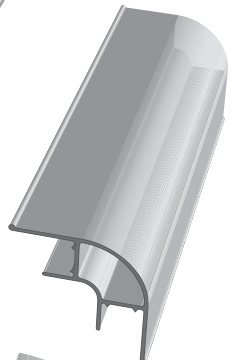
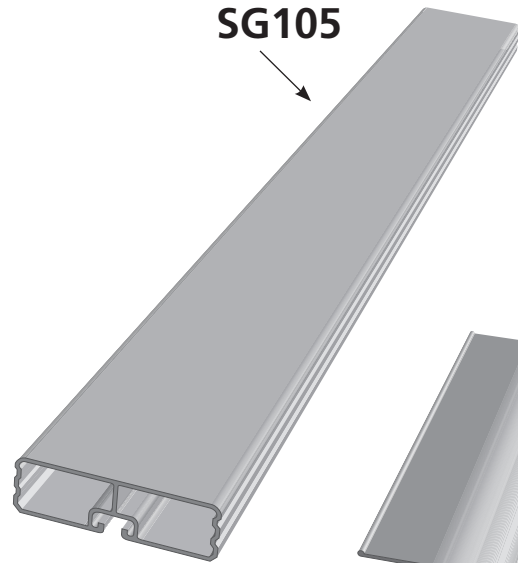
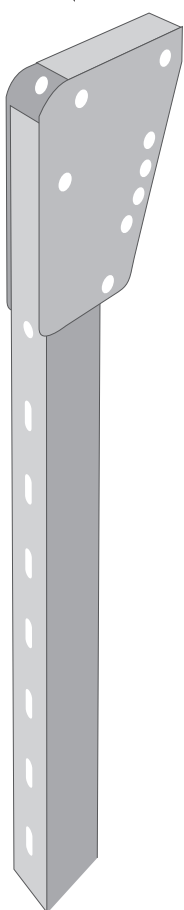
SG105

SGP132/100

EC-SG105

REC-SGP132

**M8 x 20 (4.8) ZP
cup sq.hd. 13 Nm
Maximum Torque**

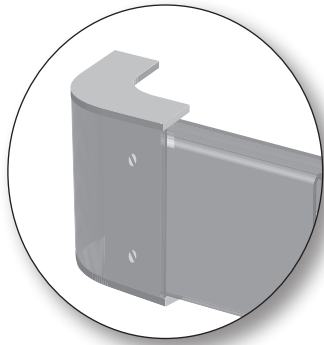


Assembly instructions

*(All dimensions are shown in mm.
Diagrams not to scale)*

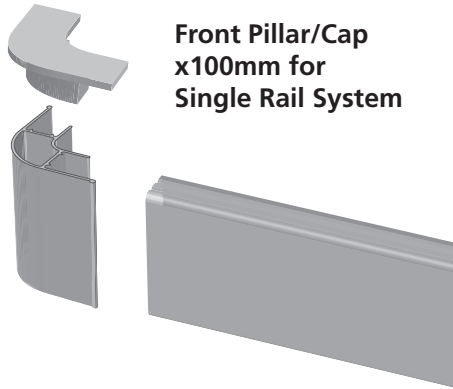
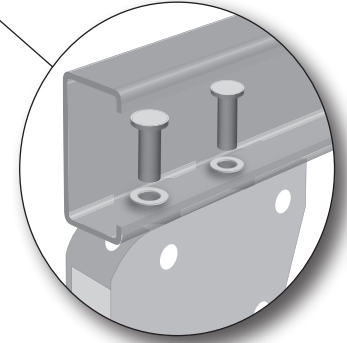
SG105 / MIS / TK / SGL-500

Min. Bearer
Galv = 2.0mm thick
Alu = 3.0mm thick

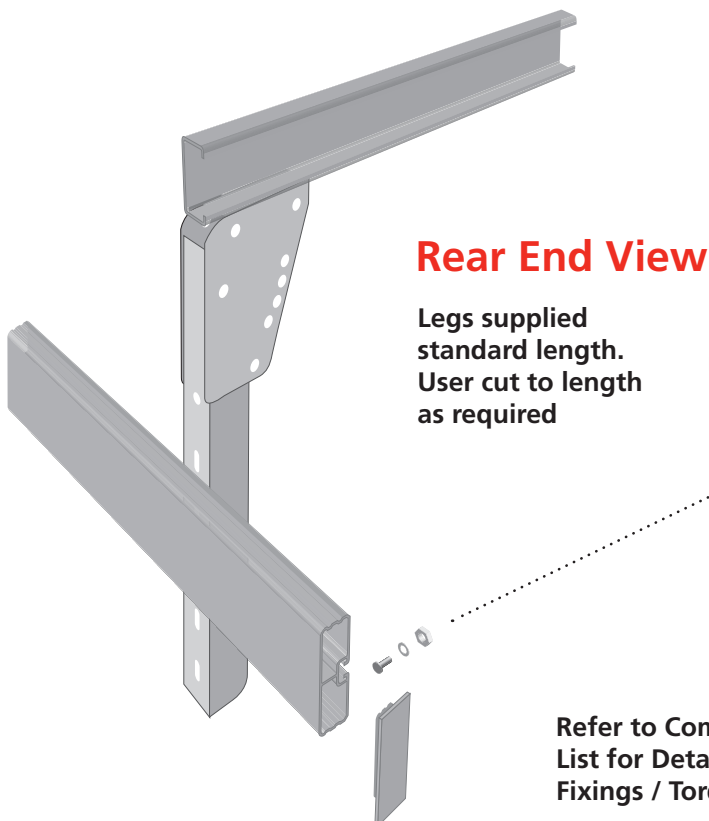


Rails specified stock size length. User cut to length as required.

Front End View



Front Pillar/Cap
x100mm for
Single Rail System



Rear End View

Legs supplied standard length. User cut to length as required



Refer to Components List for Details of Fixings / Torque

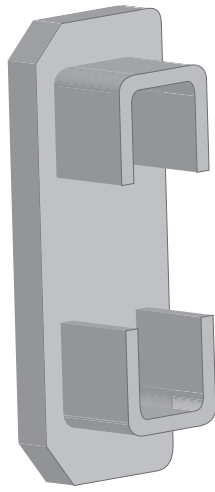


Kit selection table

Kit no.	Leg	Rail	Max drop (mm)	Max leg spacing (mm)	Max front overhang (mm)	Max rear overhang (mm)
1	MIS/SGL700	SG132	740	3000	750	150
2	MIS/SGL700	SG105	740	3000	750	150
3	TK/MIS/SGL500	SG132	500	3000	750	300
4	TK/MIS/SGL500	SG105	500	3000	750	300



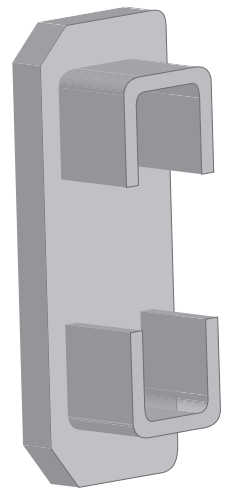
SG132 (Rail)



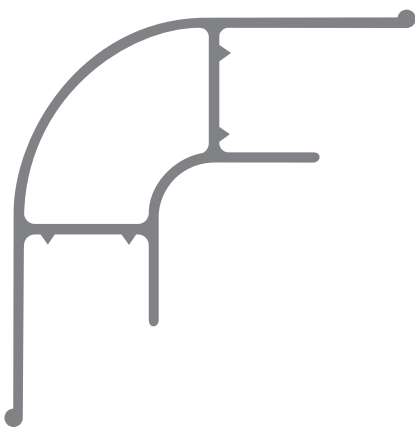
EC-SG132



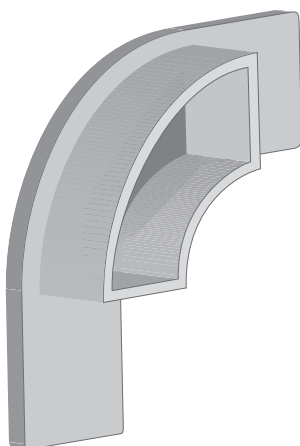
SG105 (Rail)



EC-SG105



SGP132 (Pillar)

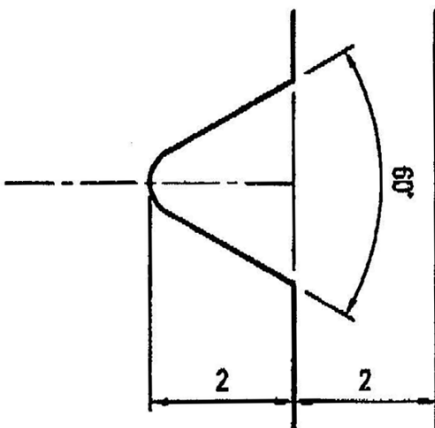
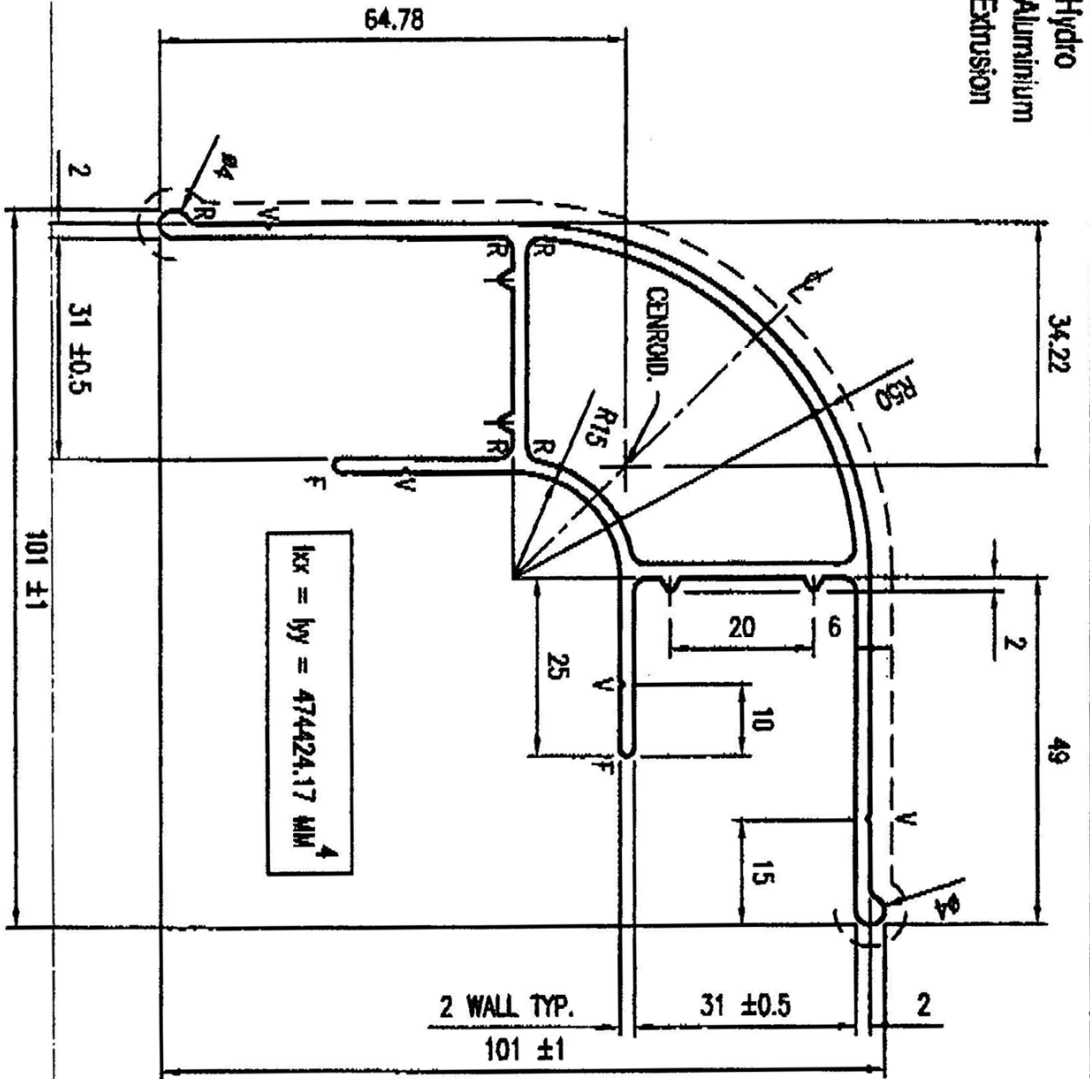


REC-SGP132



**Side Guard Pivot Leg SGL-500
(also available as SGL-700)**





SOLD BY :- KG

NOTE:- SECTION IS SYMMETRICAL ABOUT INDICATED CENTRELNE

AALCO - SOUTHAMPTON		UNSTATED TOLERANCES TO BS EN 755-9		ANGULARITY ±1°		CD= 142	
UNSPERFED THICKNESS 2 MM		PRIMARY SURFACE		SECONDARY SURFACE		RAD	
SCALE	1:1	TO MATCH WITH :-			A=	RAD	
ALLOY	6063A-T6	TYPE OF FIT	O S J		R=	2.00 RAD	
EST WT	1.773	KG/M	CUST DWG No TD/AUE 2170		V=	0.50 Deep x 90°	
EST PERM	475	MM	DESCRIPTION ROAD TRANSPORT SECTION		S=	Sharp Corner F=Full Rod	
INT PERM	153	MM	SIDE GUARD END SECTION		DATE	19/4/2004	
		DWN T. WILKIN 80062/2004				105837	

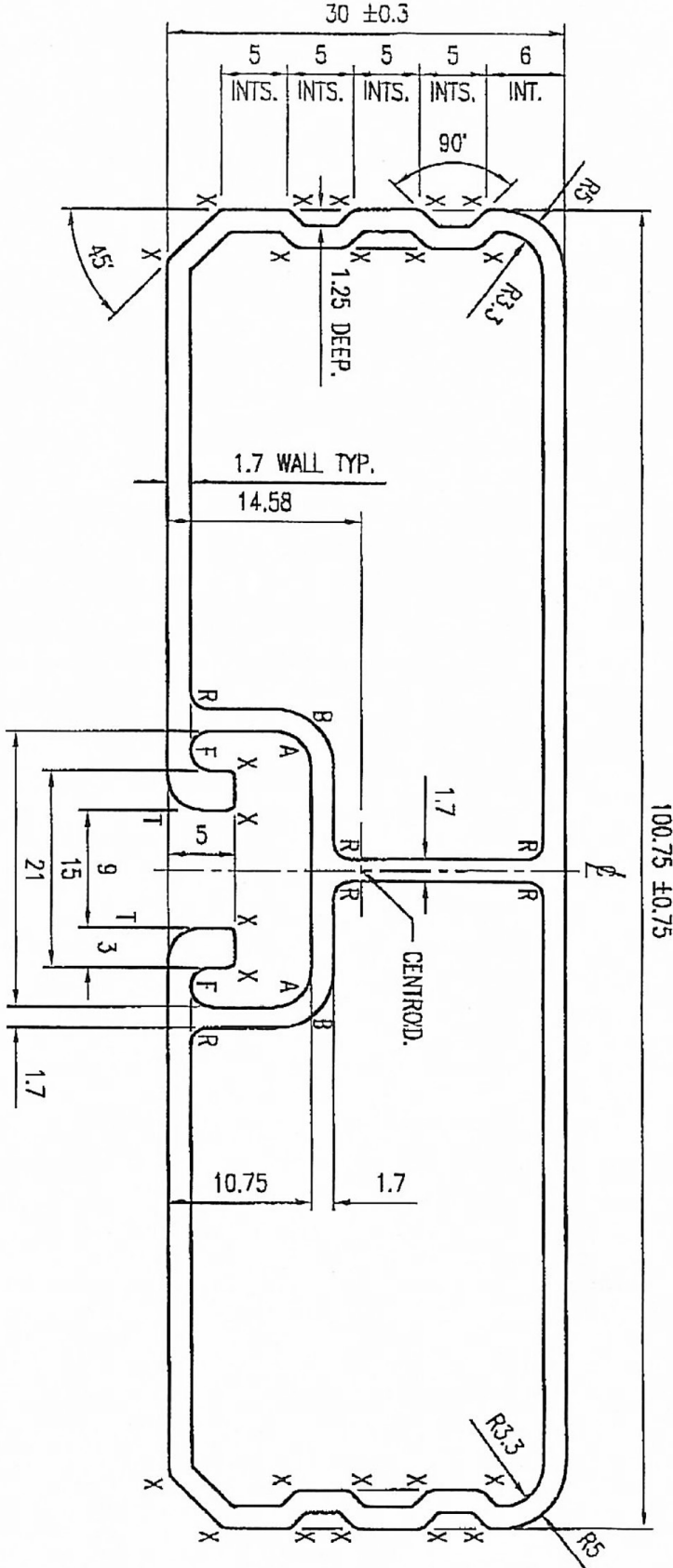
DRAWING CHECKED
AND APPROVED
SIGNED *[Signature]*
DATE 5/5/04





Hydro
Aluminium
Extrusion

$I_{xx} = 75145.11 \text{ MM}^4$
 $I_{yy} = 497295.16 \text{ MM}^4$



100.75 ± 0.75

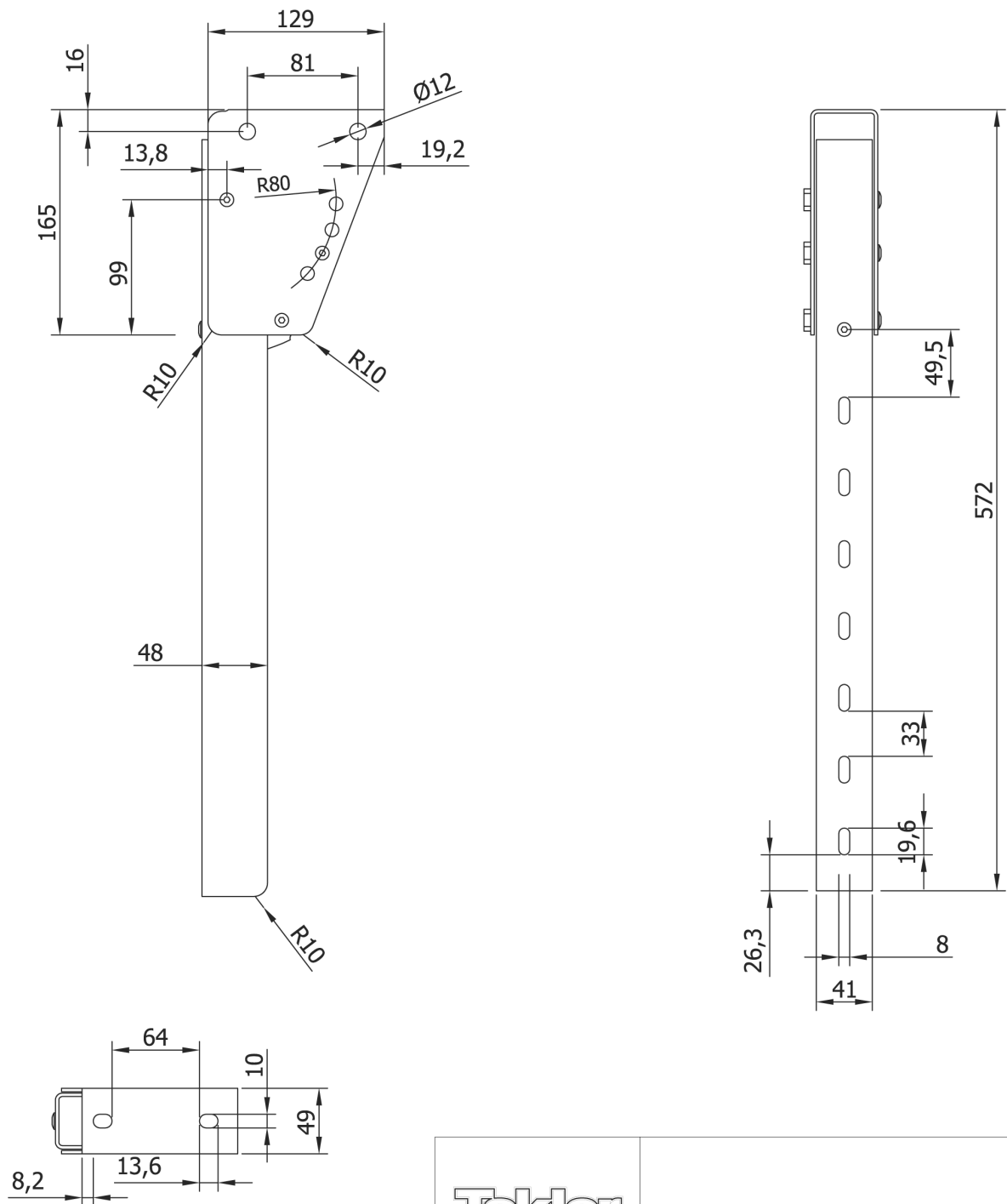
SOLD BY :- kg.

NOTE:- EXTRUSION IS SYMMETRICAL ABOUT INDICATED CENTRELINE.

T= 2.50 RAD

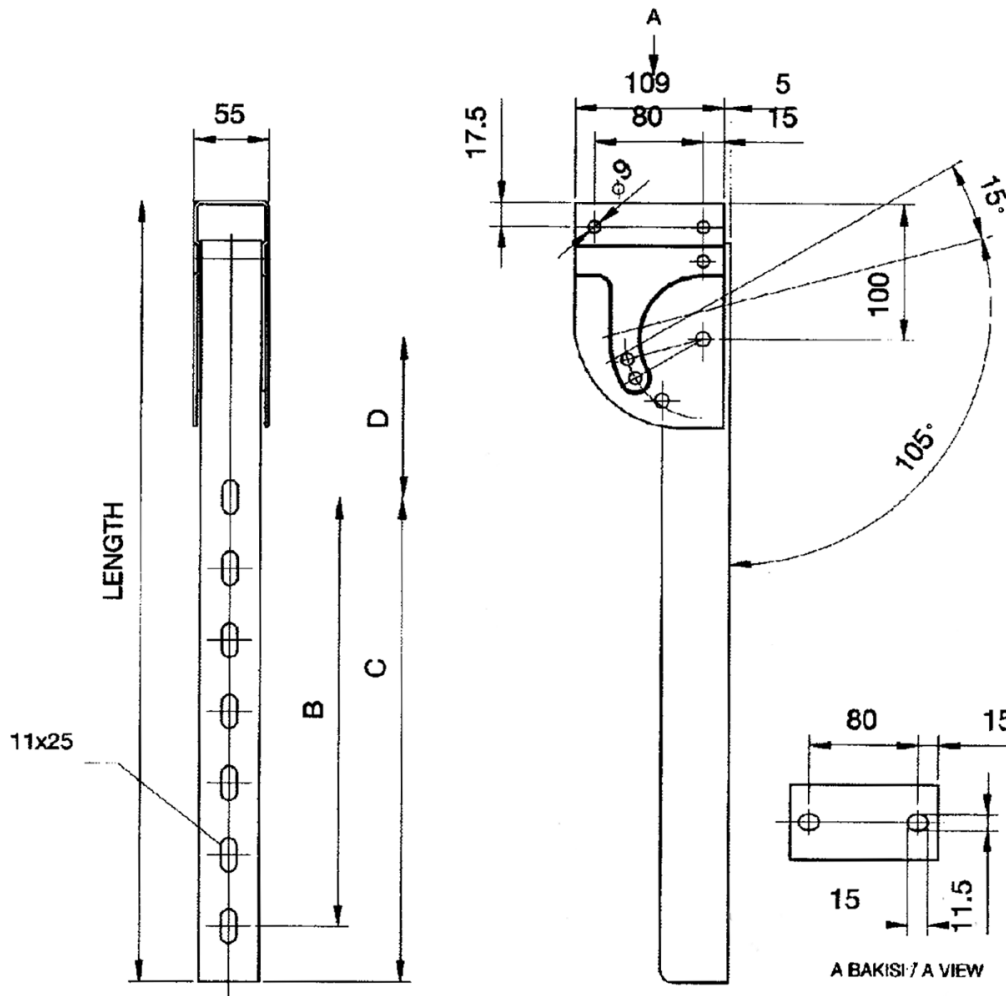
ALCO - SOUTHAMPTON		UNSTATED TOLERANCES TO BS EN 755-9		ANGULARITY ±1°	
UNSPECIFIED THICKNESS 1.70 MM		PRIMARY SURFACE		SECONDARY SURFACE	
SCALE	2:1 & 1:1	TO MATCH WITH :-		# = ID PIPS	B= 4.45 RAD
ALLOY	6063A-T6	TYPE OF FIT		(#)= ID GROOVES	A= 2.75 RAD
EST WT	1.426	CUST DWG No		Deep x 90°	R= 1.25 RAD
EXT PERIM	307	DESCRIPTION		S=Sharp Corner / F=Full Rad	X= 0.50 RAD
INT PERIM	288	SIDE GUARD RAIL SECTION		DWN T.WILKIN BB082/2004	DATE 20/4/2004
105836 A		21.4,04		105836 A	
30 ± 0.3 WAS 32 ± 0.3 AND LOWER CHAMFER WAS R5.					





Takler			
CODICE ARTICOLO TK 3011		DESCRIZIONE STAFFA DI SUPPORTO PER PROTEZIONE LATERALE ZINCATA A FREDDO SPINOTTI ZINCATI *572	
DATA 08-09-2006		11-Jul-13	
DISEGNATO <i>L. Adduci</i>	FORMATO A4	SCALA	UK Approval Authority

Technical Data and Specifications



PART NO.	LENGTH	B	C	D
OV 650-572	572	6x52.5=315	356	117
OV 650-732	732	8x52.5=420	456	176

FINISH ALTERNATIVES

C = ZINC COATED

P* = CATHODIC DIP COATING

*There is a min. order limit for this feature

ORDERING SYSTEM

LENGTH FINISH


OV 650 - X - X
(EXAMPLE: OV 650-732-C)

PENDING EP PATENT APPLICATION NO EP 03102298.1

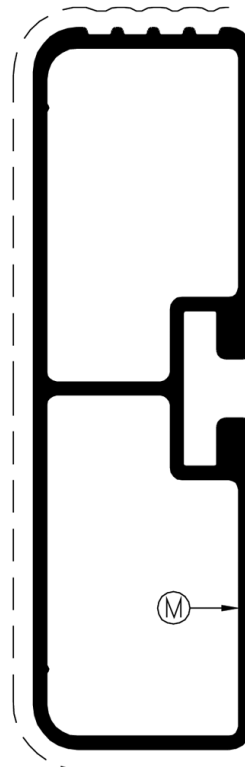
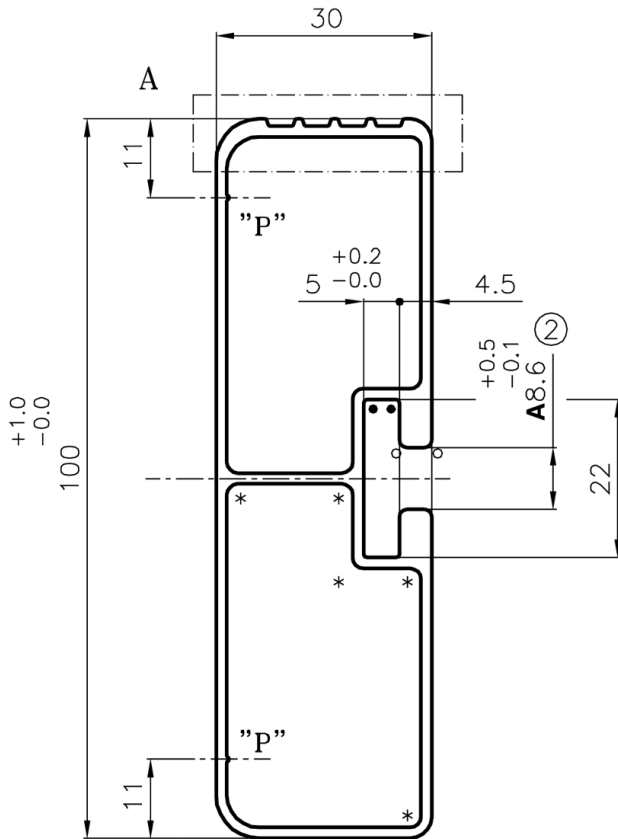
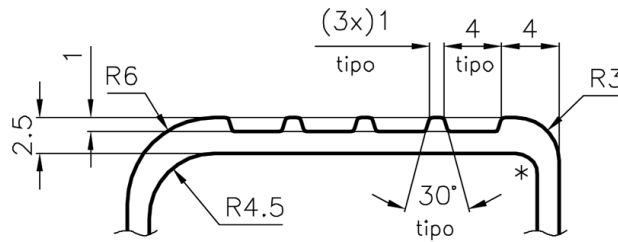


M.I.S. Products Limited
 84 Manor Rise
 Lichfield, Staffs., WS14 9RF
 Tel: 07800 538661 Fax: 0870 762 0991
 e-mail: sales@misproducts.co.uk



1	Alt. de indicação de area visível	03/12/16	E.P.	Aprovado em	Nº
2	Alt. de tolerância assinalada c/ ②	04/11/23	E.P.	Data ___/___/___	E281/10-03
				 MARCA DE FABRICA	Perfil Nº
					01/01

Pormenor A



"P"=0.3x90°

Cliente: AMARI METAL				Ref.: 3-4683				Aplicação: .			
Os ângulos não cotados têm um raio de 0,3mm				DESEN.	03/10/08	PAULA C.		Espessura Geral: 1.5 ^{+0.15} / _{-0.10}			
Peso Teórico (Kg/m)	1.350	Secção mm ²	500.0	VERIF.				Áreas Visíveis		Áreas Secundárias	
Perímetro Exterior (mm)	300.6	lx cm ²	45.51	PRODU.				Escala: 1:1		2:1	
Perímetro Total (mm)	587.6	ly cm ²	7.20	C.QUAL.				Escalas: 1:1		2:1	
Area Anod. (m ² /m)	0.301	Liga Al Mg Si 0.5 - F22		* R1.5	Smax/Smin	2.5	Du/Smin	68.2	Du	102.3	14851260
Area Polir (m ² /m)	0.154	Tolerâncias NP EN 12020-02		o R1							 REV.Nº 2 Ref. perfil 11-Jul-13 CF-97-105
				● R0.5							
				⊗							
				△ RTotal							