



THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

COMMUNICATION CONCERNING THE APPROVAL GRANTED <sup>(1)</sup>/ APPROVAL EXTENDED <sup>(1)</sup>/  
APPROVAL REFUSED <sup>(1)</sup>/ APPROVAL WITHDRAWN <sup>(1)</sup>/ PRODUCTION DEFINITELY  
DISCONTINUED <sup>(1)</sup> OF A LATERAL PROTECTION DEVICE (LPD) PURSUANT TO PART II OF  
REGULATION NO. 73.01




Approval No: 73R-011018

Extension No: 02

Reason(s) for extension: To cover:

- 1.) Introduction of new lateral section as an alternative to SG132, this item to be known as SG132'L'.  
Copy of extrusion drawing for SG32L attached
- 2.) This Extrusion to be offered with reduced Leg Spacing to allow for reduced thickness of section

1. Trade name or mark of LPD: Aalco Metals Ltd
2. Type of LPD: SG132, SG132L, SG105
3. Name and address of manufacturer:  
Aalco Metals Ltd  
Parkway House,  
Unit 6 Parkway Industrial Estate  
Pacific Avenue  
Wednesbury  
WS10 7WP  
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:~~ <sup>(1)</sup>

7. Position on the LPD of the points of application of the test forces: Front, centre of leg span, rear.
8. Vehicle category on which the LPD may be installed: N2, N3, O3, O4
9. Device submitted for approval on: As before (09 August 2012) and 11 June 2018
10. Technical service responsible for conducting approval tests: Vehicle Certification Agency
11. Date of report issued by that service: As before (09 August 2012) and 30 July 2018
12. Number of report issued by that service: As before (VSM251144) and VSU431922
13. Approval ~~GRANTED/REFUSED/EXTENDED/WITHDRAWN~~: <sup>(1)</sup>
14. Position of approval mark on the LPD: On the rail, pillar and legs
15. Place: BRISTOL
16. Date: 14 NOVEMBER 2018
17. Signature:   
D LAWLOR  
Chief Technical and Statutory Operations Officer
18. The following documents, bearing the approval number shown above, are available upon request.

Any remarks: None

(1) Strike out what does not apply

11<sup>th</sup> June 2018

**AALCO Metals Ltd**  
**Application for Extension to E11-73R-011018**  
**Reason for Extension:**

**Job Number VSU 431922**

- 1) Introduction of new lateral section as an alternative to SG132, this item to be known as SG132'L'. Copy of extrusion drawing for SG32L attached
- 2) This Extrusion to be offered with reduced Leg Spacing to allow for reduced thickness of section

**Refer to Kit Selection Table, Appendix 3A for Testing Dimensions**



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

VCA Job No: VSU431922

0. GENERAL.

- 0.1 Make (trade name of manufacturer): Aalco Metals Ltd
- 0.2 Type & general commercial description(s): SG132, SG132L, SG105
- 0.5 Name & address of manufacturer: Aalco Metals Ltd  
Parkway House  
Unit 6 Parkway Industrial Estate  
Pacific Avenue, Wednesbury,  
West Midlands. WS10 7WP
- 0.7 In the case of components & separate technical units, location and method of affixing the EC approved mark: On either end of the rails SG132, SG132L, SG105, on each SGP132 Pedestrian Pillar & on each leg SGL500 & SGL700
- 0.8 Name & Address of assembly plants: Aalco Metals Ltd T/A The Metal Centre  
Western Way, Wednesbury, WS10 7BW  
  
Aalco Metals Ltd  
Shelah Road, Halesowen, B63 3PH
- 0.9 Name & 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 & method 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-QV650, TK3017, IL3608, KL4979

Other Components. EC-SG132, ABS End  
Cap, REC-SGP132ABS Cap, M8 x 25mm  
Cup Square Bolts c/w Nylock Nuts.

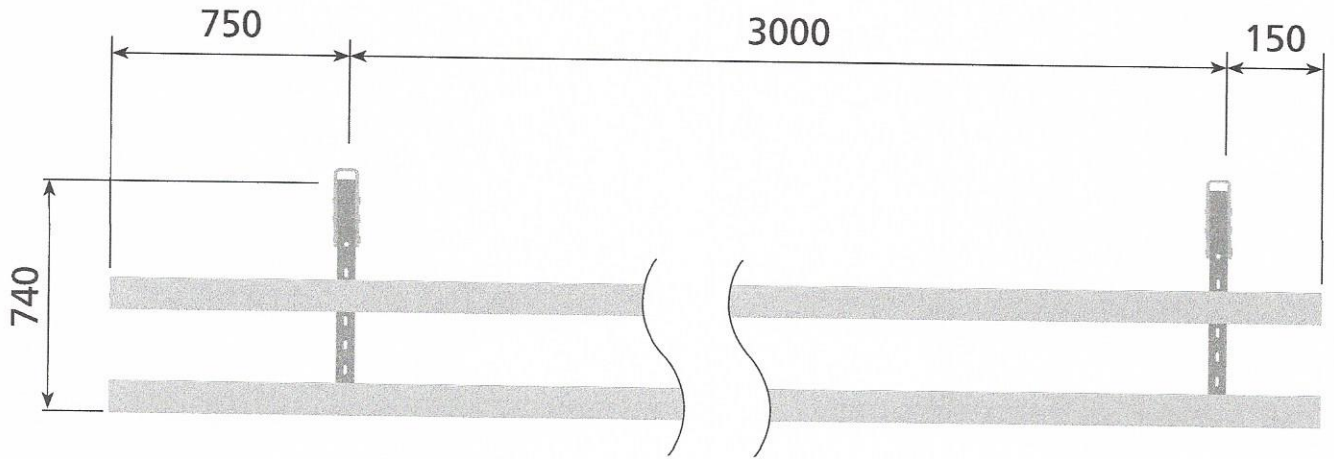
Annex:

- Technical drawings of Main Parts and Assembly (With material spec)
- Fitting Instructions

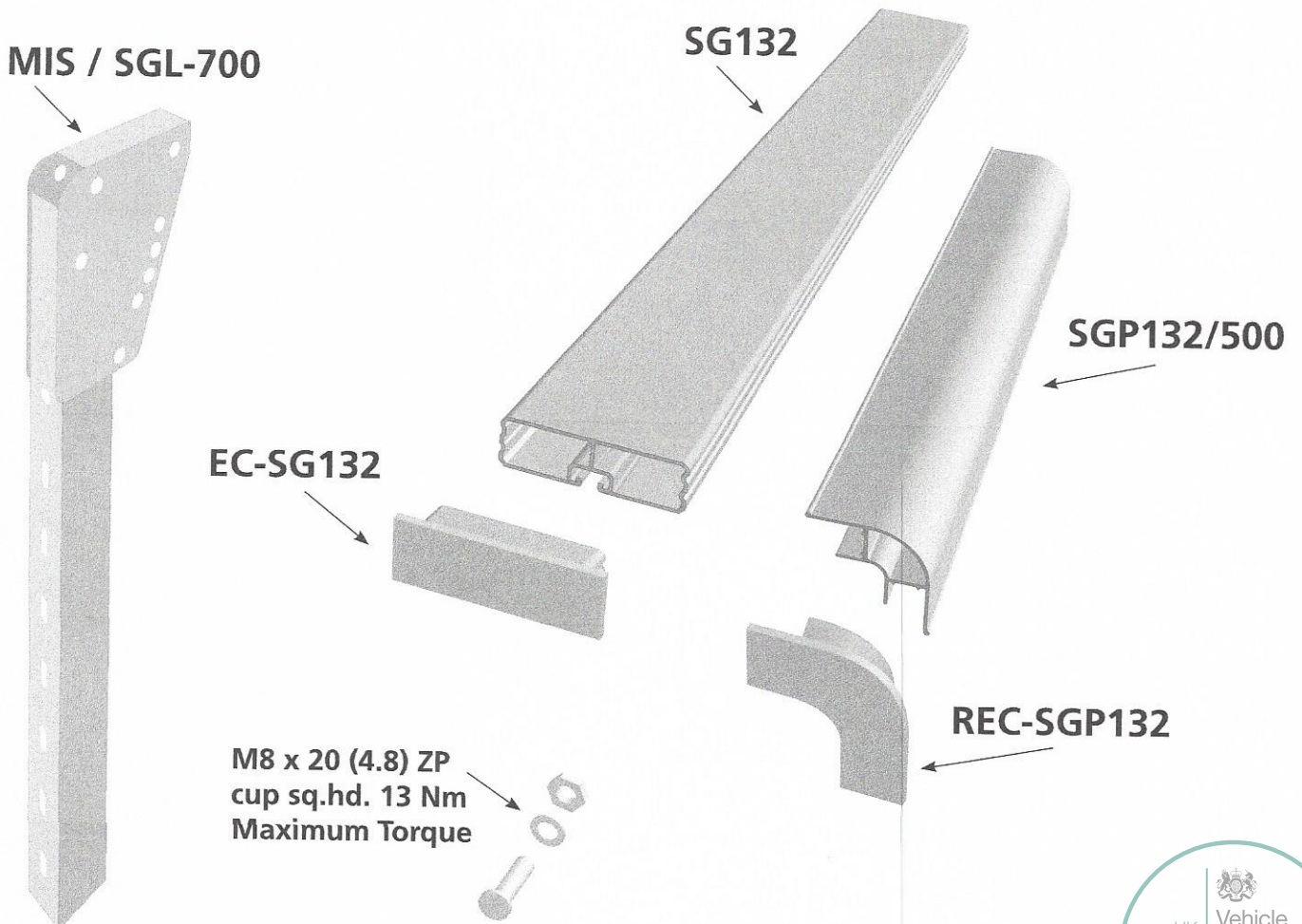
**Installation guide**

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

**SG132 / MIS / SGL-700**



**Components list**



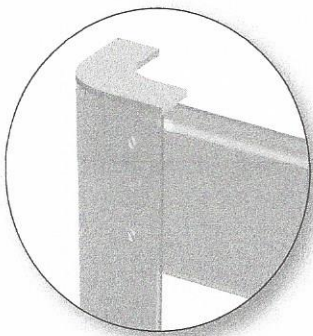


Assembly instructions

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

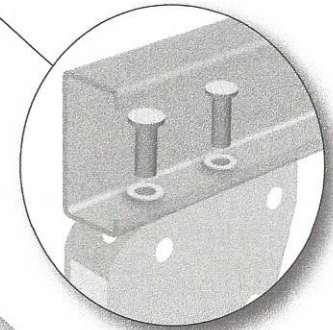
**SG132 / MIS / SGL-700**

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

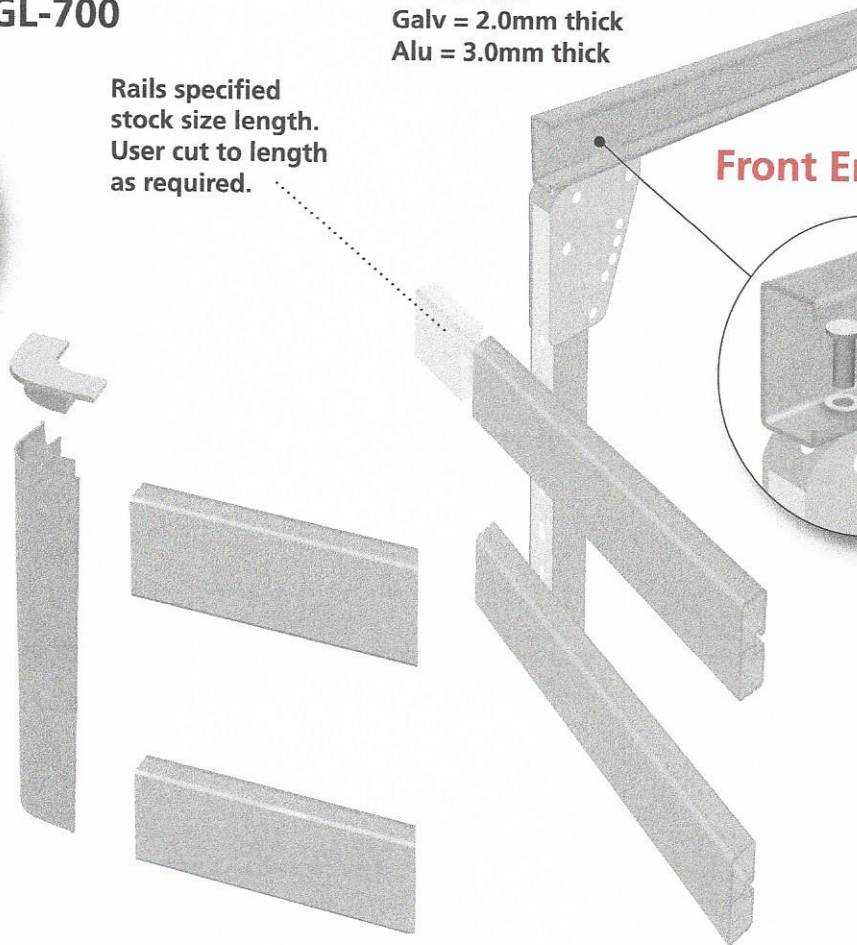


Rails specified stock size length. User cut to length as required.

**Front End View**

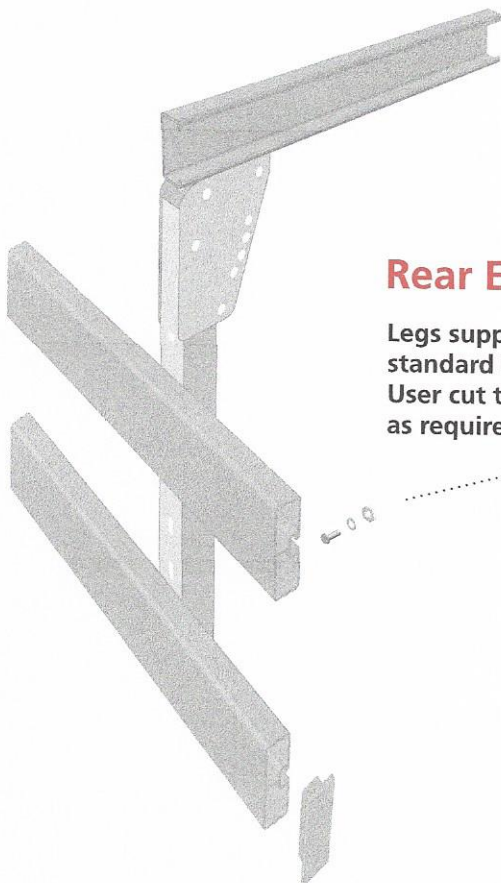
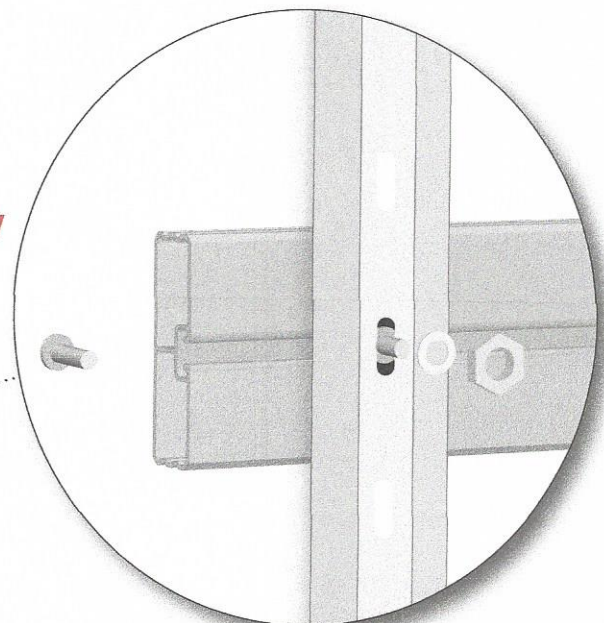


Front Pillar/Cap  
x500mm for  
Twin Rail System



**Rear End View**

Legs supplied standard length. User cut to length as required

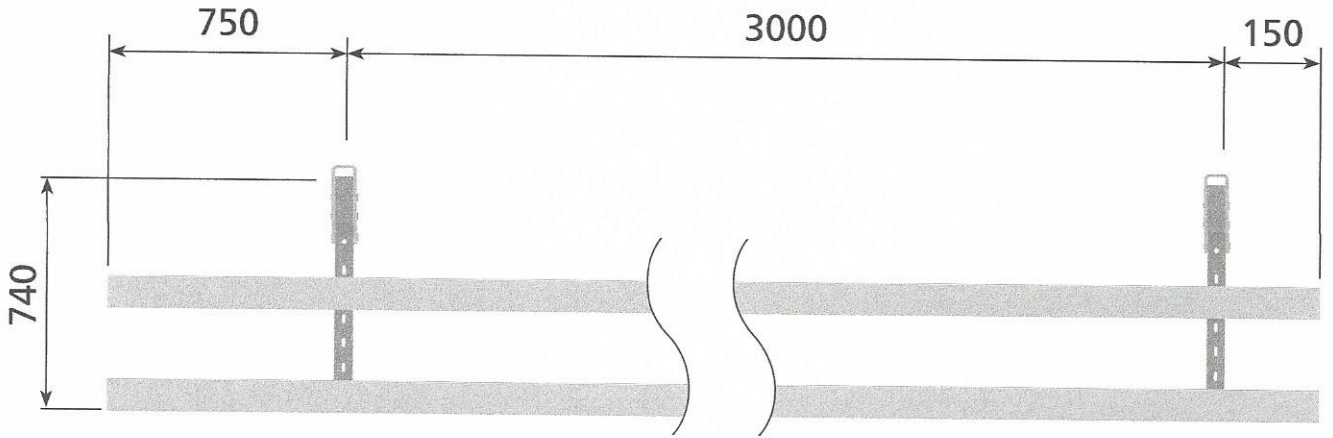


Refer to Components List for Details of Fixings / Torque

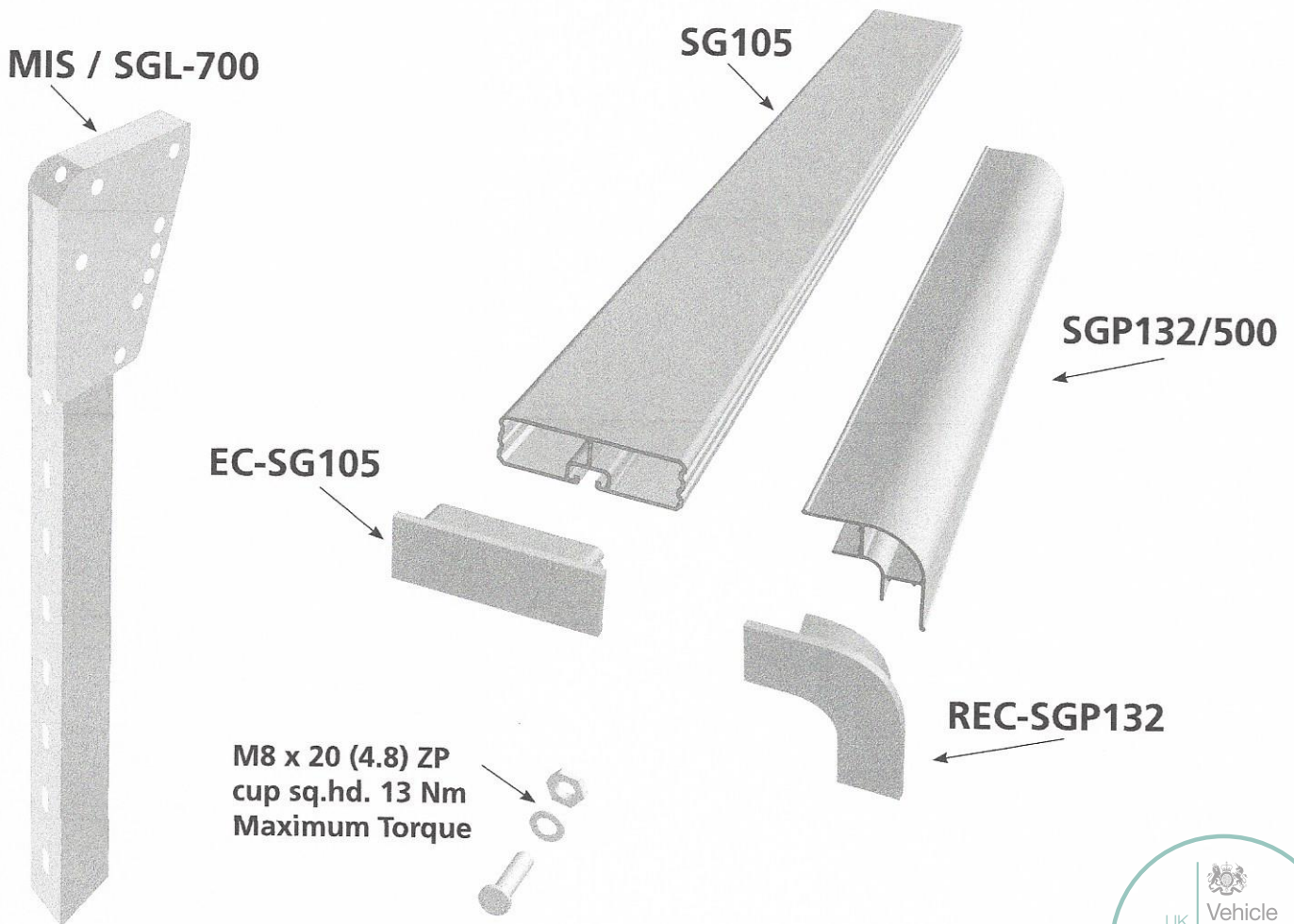
**Installation guide**

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

**SG105 / MIS / SGL-700**



**Components list**



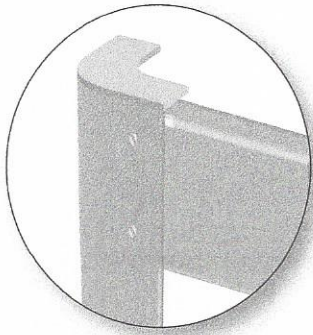


Assembly instructions

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

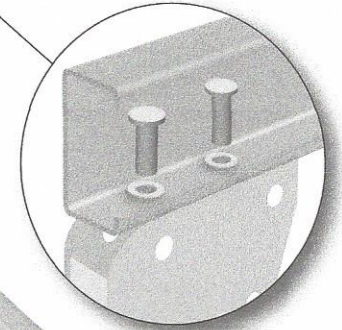
SG105 / MIS / SGL-700

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



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

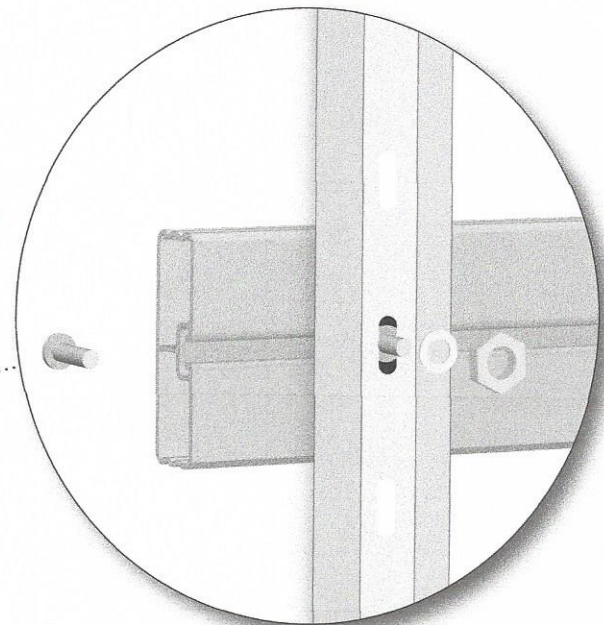
Front End View



Front Pillar/Cap  
x500mm for  
Twin Rail System

Rear End View

Legs supplied standard length. User cut to length as required

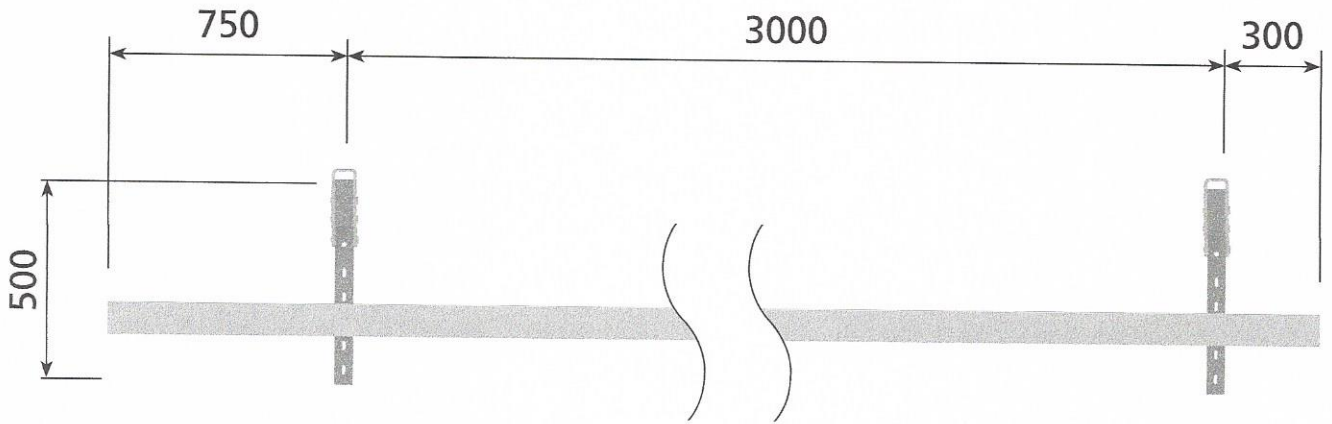


Refer to Components List for Details of Fixings / Torque

**Installation guide**

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

**SG132 / MIS / TK / SGL-500**

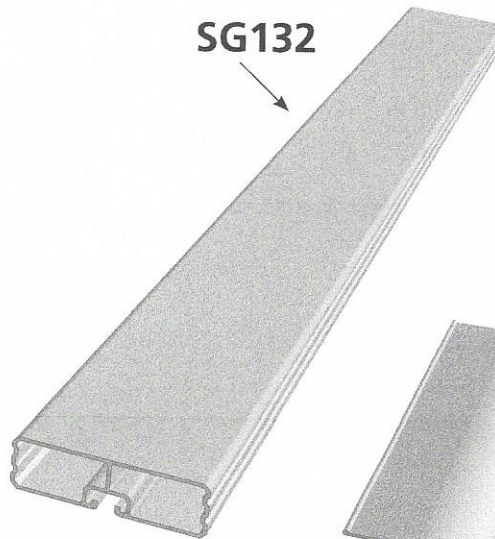


**Components list**

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



**SG132**



**EC-SG132**



**SGP132/100**



**REC-SGP132**



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



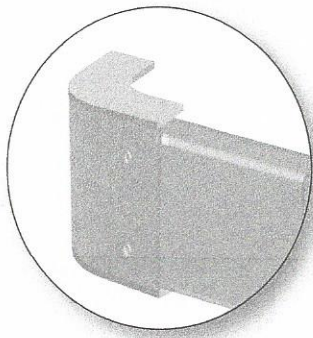


Assembly instructions

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

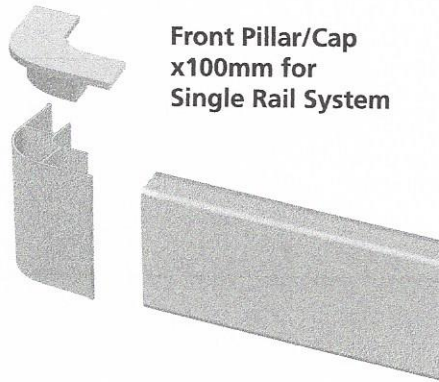
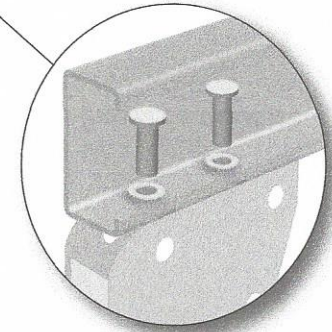
SG132 / MIS / TK / SGL-500

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

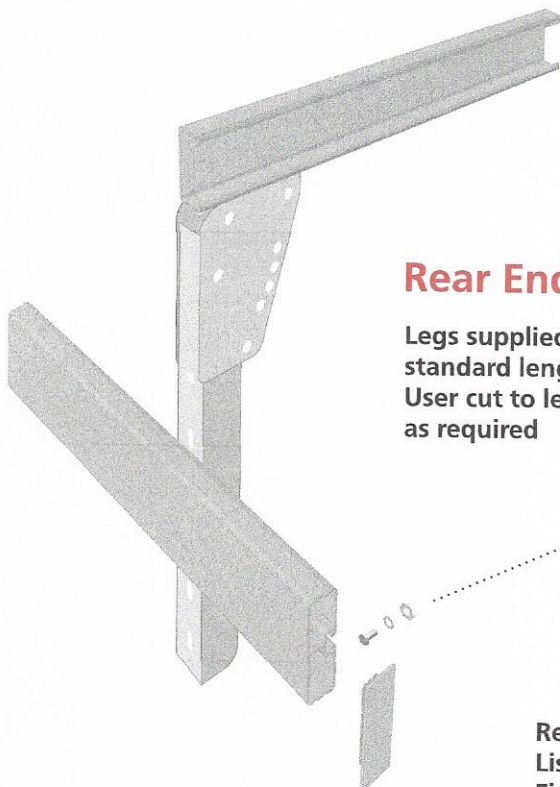


Rails specified stock size length. User cut to length as required.

Front End View

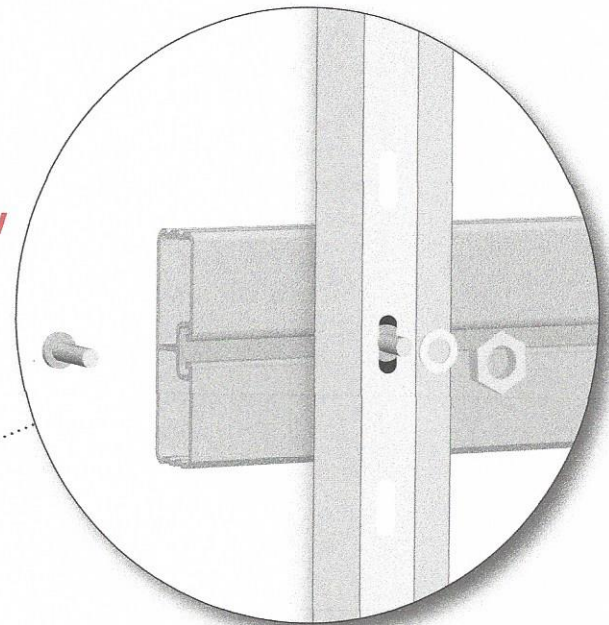


Front Pillar/Cap  
x100mm for  
Single Rail System



Rear End View

Legs supplied standard length. User cut to length as required

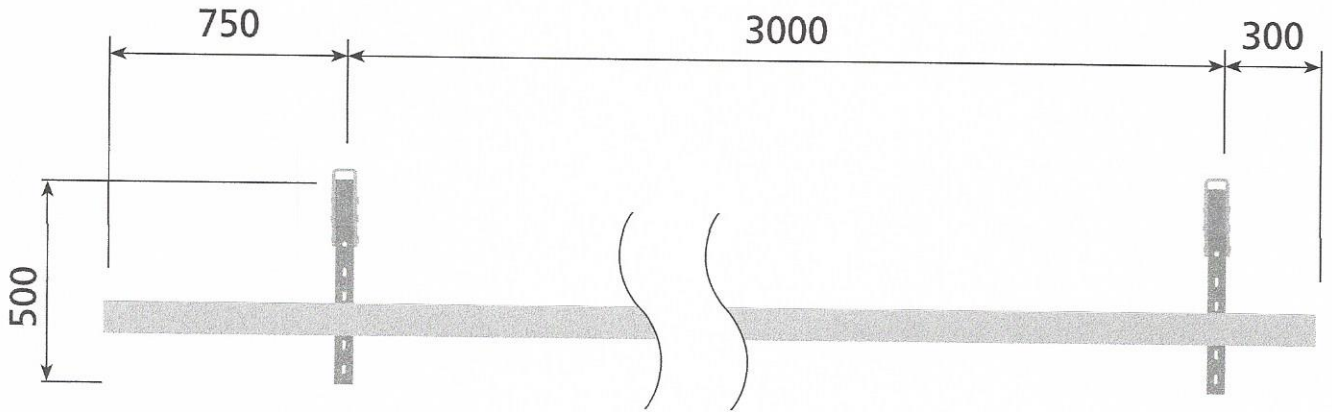


Refer to Components List for Details of Fixings / Torque

**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**

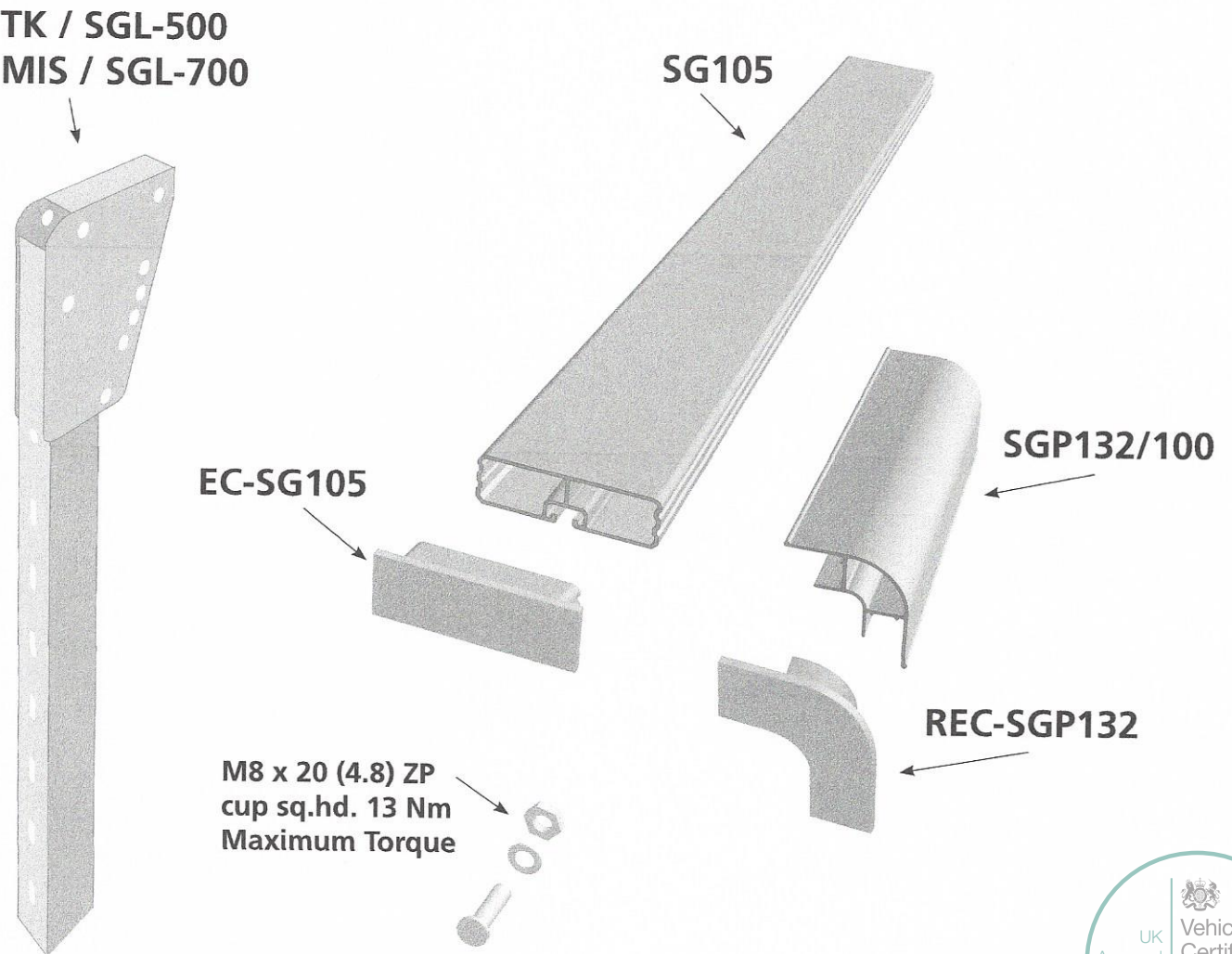
**SG105**

**SGP132/100**

**EC-SG105**

**REC-SGP132**

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



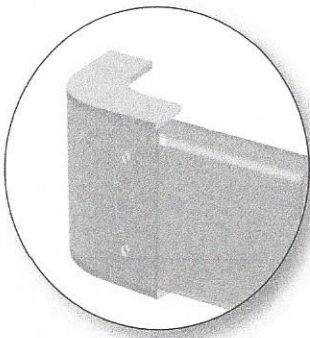


**Assembly instructions**

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

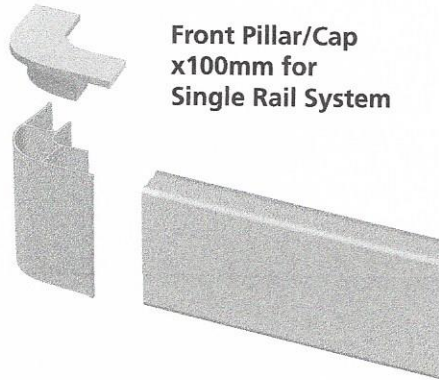
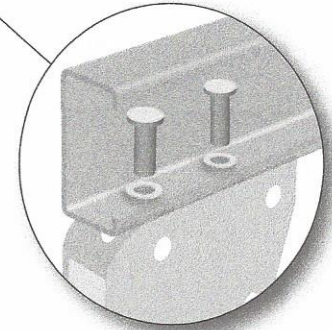
**SG105 / MIS / TK / SGL-500**

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

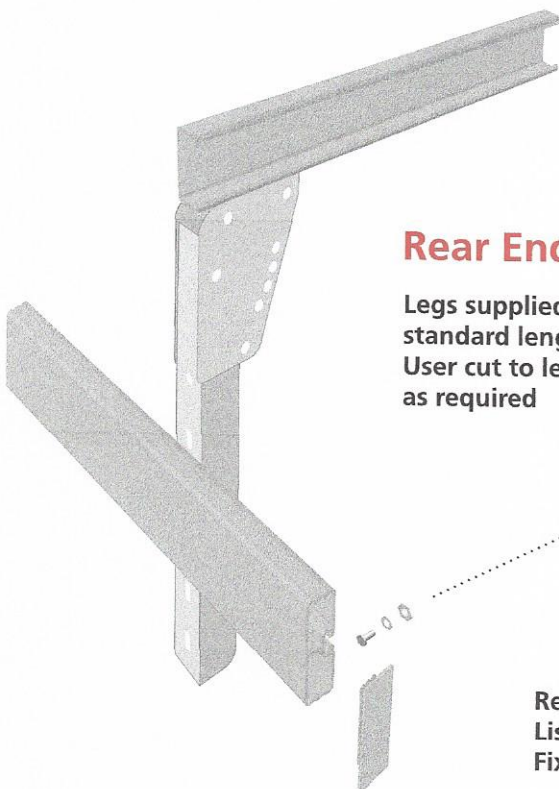


Rails specified stock size length. User cut to length as required.

**Front End View**

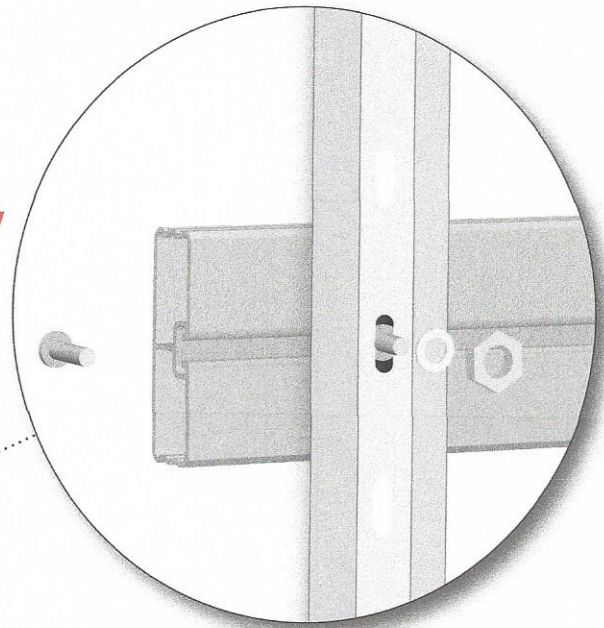


**Front Pillar/Cap**  
x100mm for  
Single Rail System



**Rear End View**

Legs supplied standard length. User cut to length as required

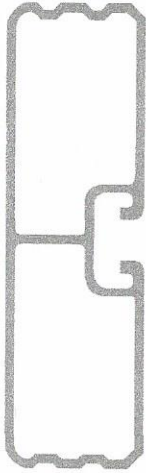


Refer to Components List for Details of Fixings / Torque

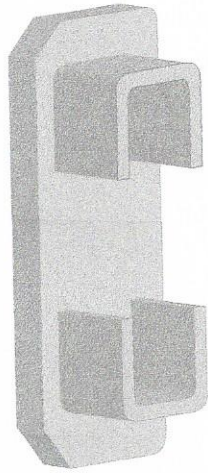
## Kit selection table

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





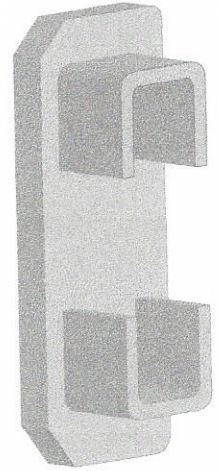
**SG132 (Rail)**



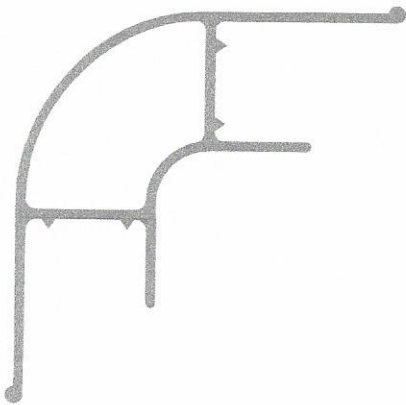
**EC-SG132**



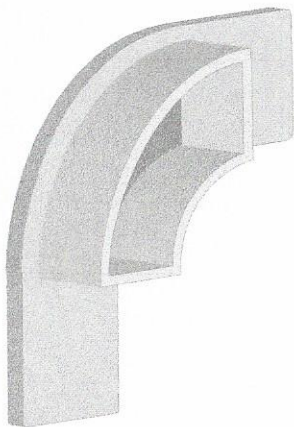
**SG105 (Rail)**



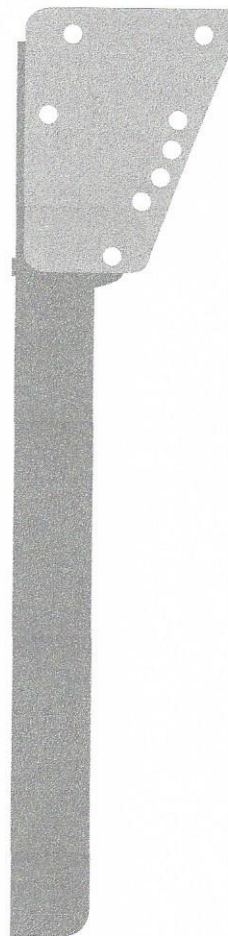
**EC-SG105**



**SGP132 (Pillar)**

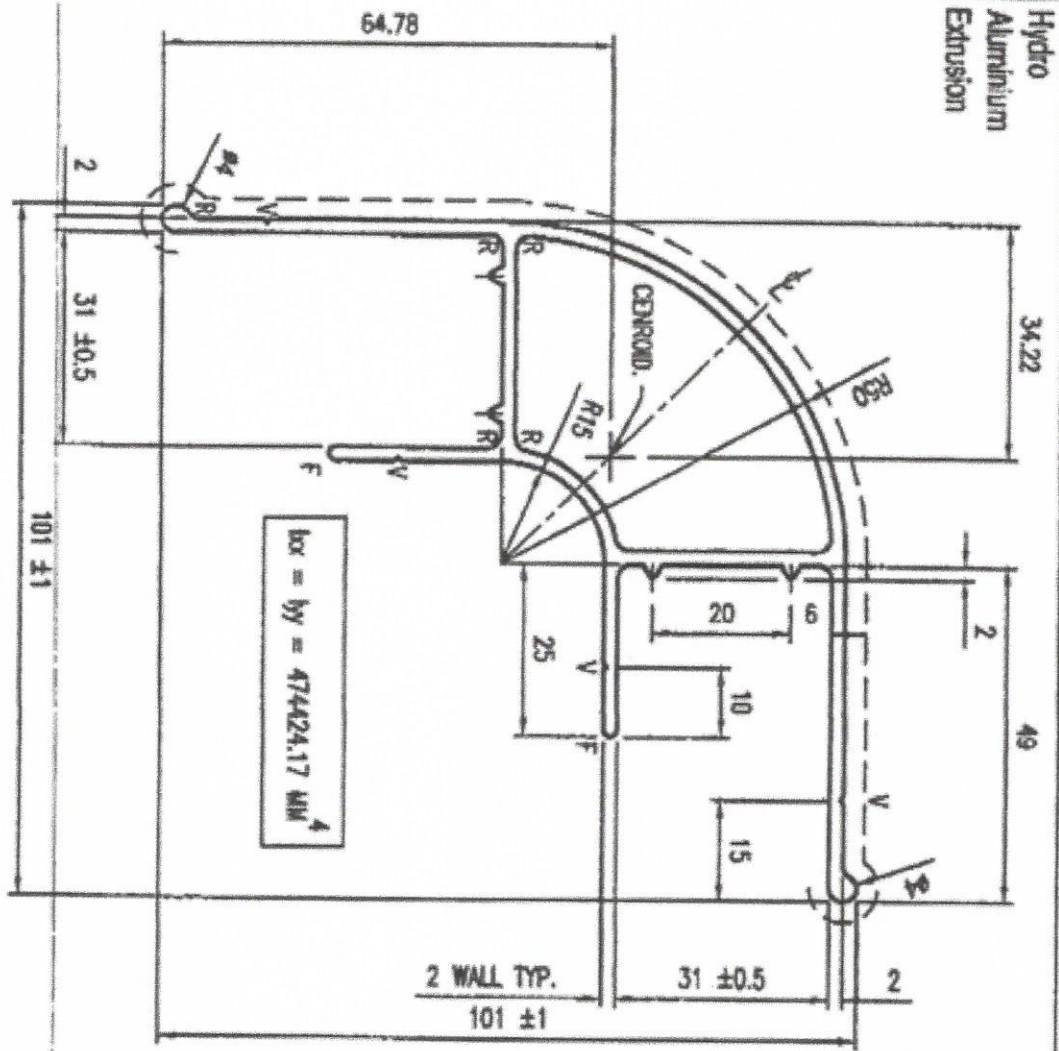


**REC-SGP132**

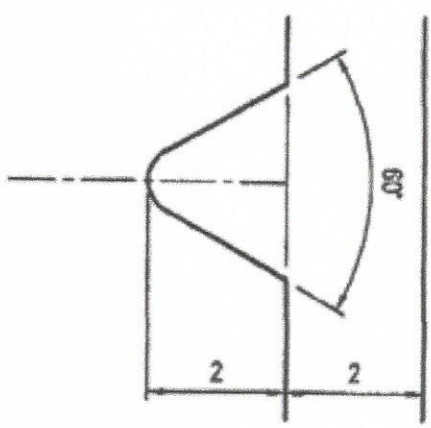


**Side Guard Pivot Leg SGL-500  
(also available as SGL-700)**





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



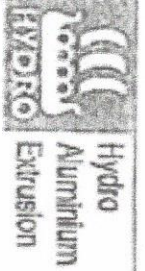
TYPICAL WEDGE DETAIL  
 SCALE - 10:1

NOTE - SECTION IS SYMMETRICAL ABOUT INDICATED CENTRELINE

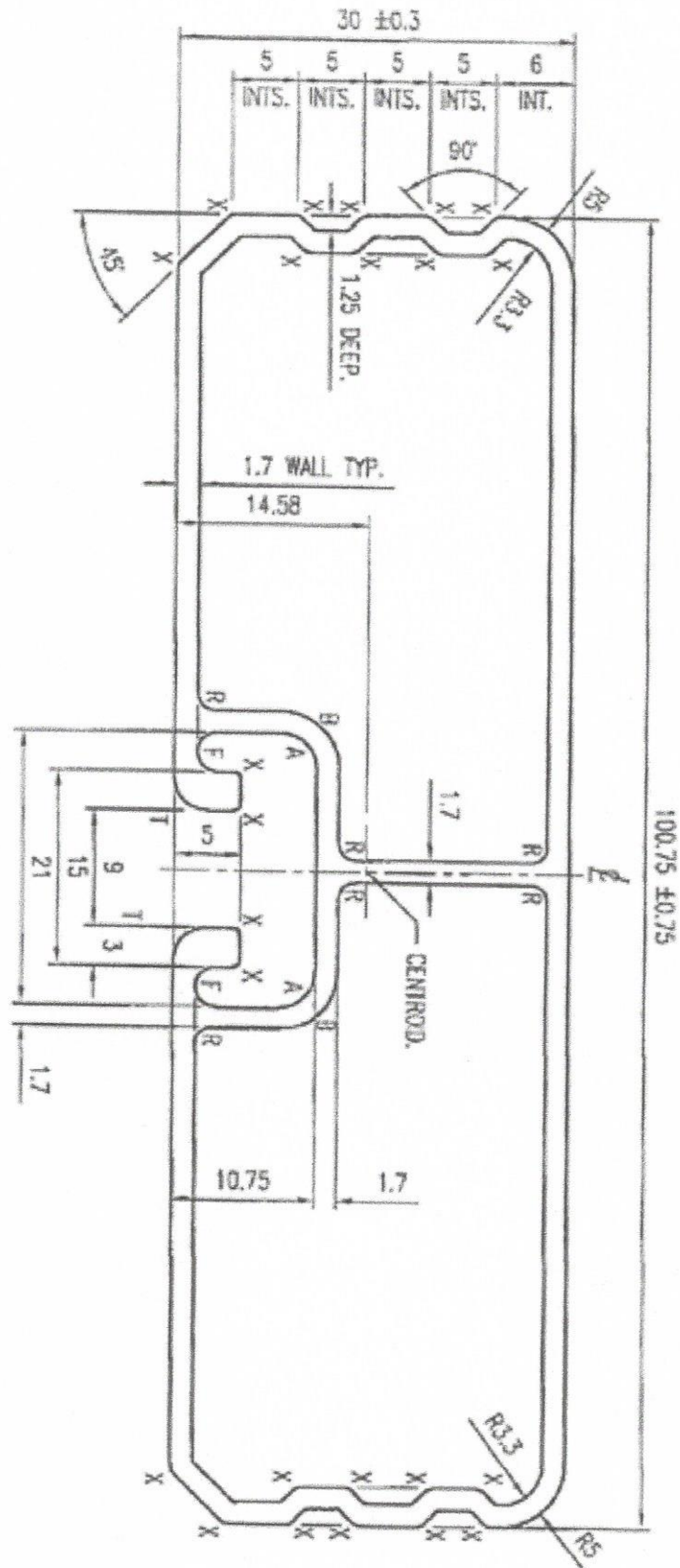
SOLD BY :- kg		ALCOO - SOUTHAMPTON		UNSTATED TOLERANCES TO BS EN 755-9		ANGULARITY ±1°		CD = 142	
		INSPECTION THICKNESS 2 MM		PRIMARY SURFACE		SECONDARY SURFACE		B = RAD	
		SCALE 1:1		TO MATCH WITH :-		f = 0 PPS		A = RAD	
		ALLOY 6063A-T6		TYPE OF FIT		(f) = 0 GROOVES		R = 2.00 RAD	
		EST WT 1.773		KG/M		EST ENG No TD/HAE 2170		V = 0.50 Deep x 90°	
		EXT PERM 475		mm		DESCRIPTION ROAD TRANSPORT SECTION		S-Sharp Corner F=Full Rod	
		MATERIAL 153		mm		SIDE GUARD END SECTION		DATE 19/4/2004	
105837				DRAWN T.WILKIN 00002/2004				DATE 19/4/2004	
								105837	







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



NOTE:- EXTRUSION IS SYMMETRICAL ABOUT INDICATED CENTRELINE.

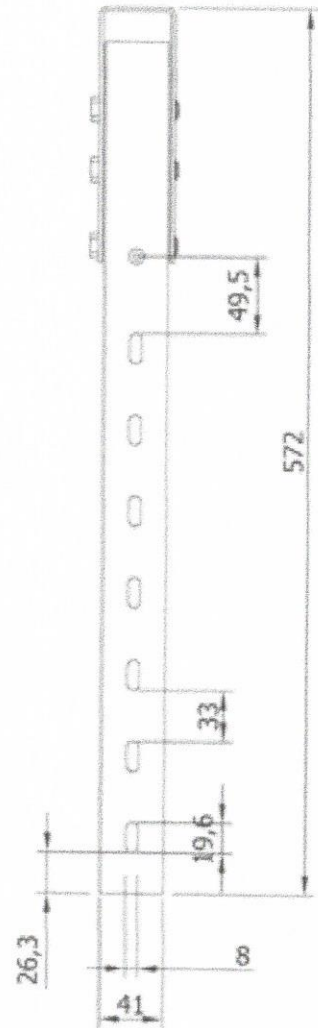
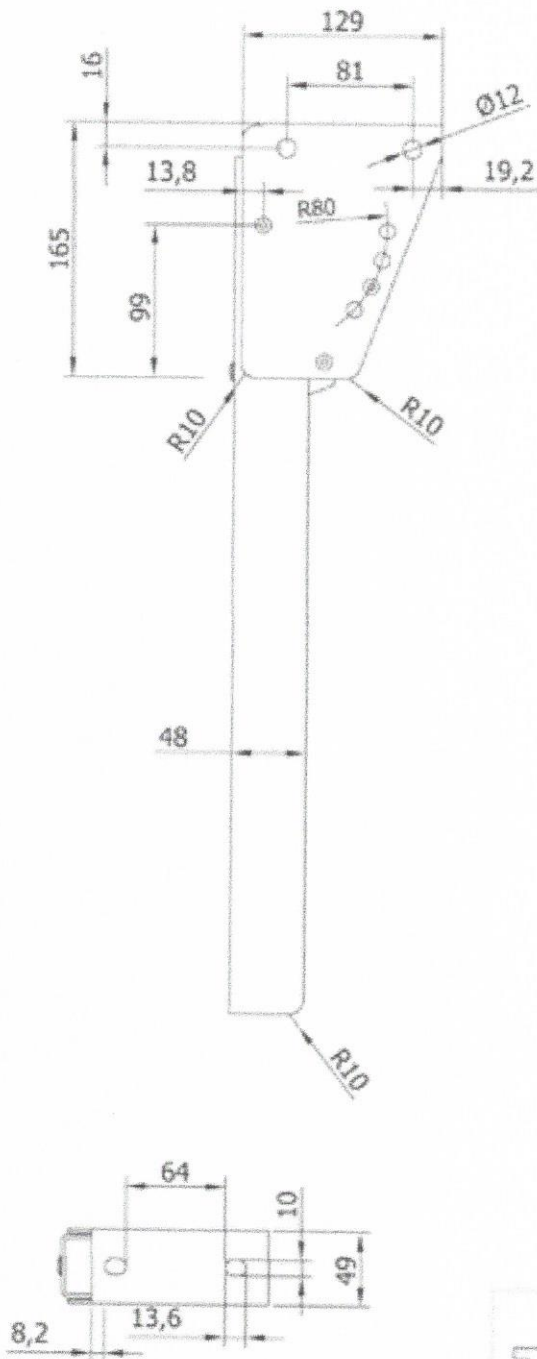
SCALD DR :-	105836 A	105836 A	30 ± 0.3 WAS 32 ± 0.3 AND LOWER CHAMFER WAS R5.	21.4.04	EST WT 1.426	EXI PERM 307	INI PERM 288	TO MAKE WITH :-	TYPE OF FIT	Q S 3	DESCRIPTION	TD/HAE 2169	TRANSPORT SECTION	DATE	20/4/2004
UNSPECIFIED THICKNESS	1.70 MM	UNSTATED TOLERANCES TO BS EN 755-9	ANGULARITY ±1°	T = 2.50 RAD	CD = 10.3										
SCALE	2:1 & 1:1	PRIMARY SURFACE	SECONDARY SURFACE												
ALLOY	6063A-16														
EST WT	1.426	KG/M	CUST DWG No	TD/HAE 2169											
EXI PERM	307	MM	DESCRIPTION	TRANSPORT SECTION											
INI PERM	288	MM	DESCRIPTION	SIDE GUARD RAIL SECTION											
MILCO - SOUTHAMPTON															



14-Nov-18



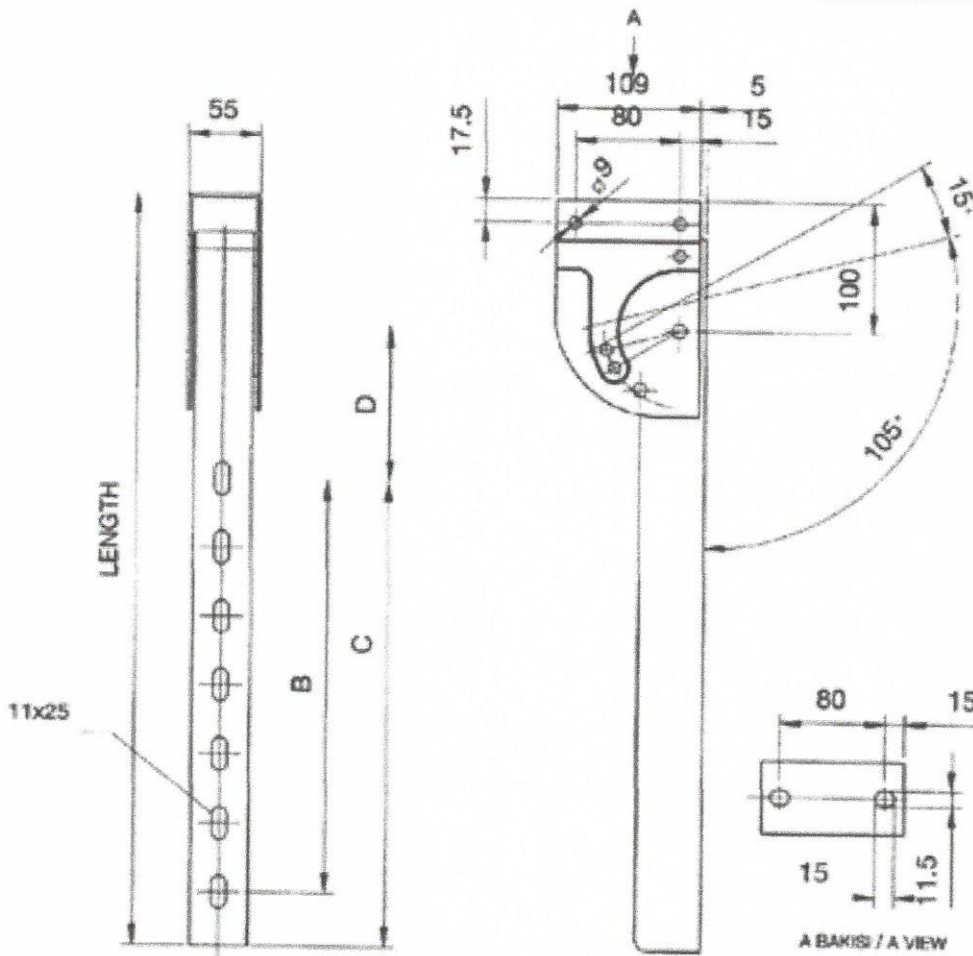




<b>Takler</b>	
CODICE ARTICOLO <b>TK 3011</b>	DESCRIZIONE <b>STAFFA DI SUPPORTO PER PROTEZIONE LATERALE ZINCATA A FREDDO SPINOTTI ZINCATI *572</b>
DATA <b>08-09-2006</b>	
DISegnATO <i>L. Adduci</i>	FORMATO <b>A4</b>
	SCALA



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

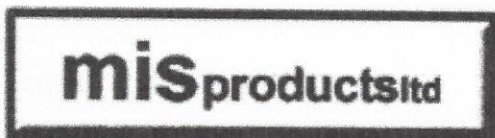
P\* = CATHODIC DIP COATING

\*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



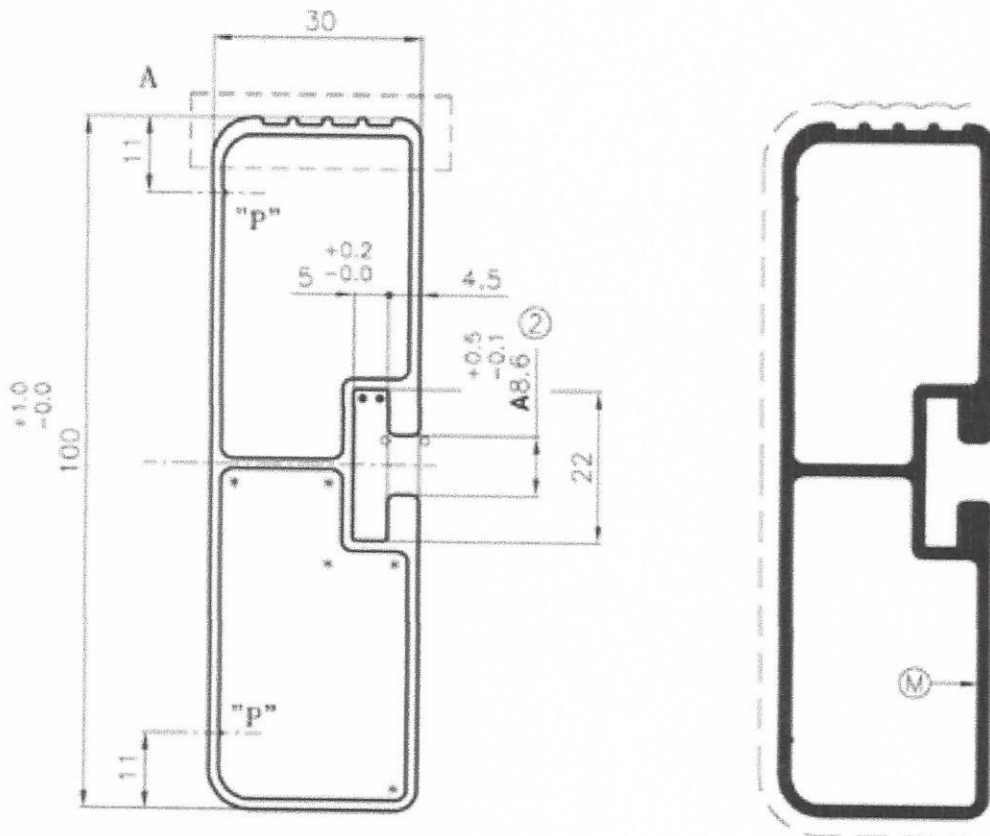
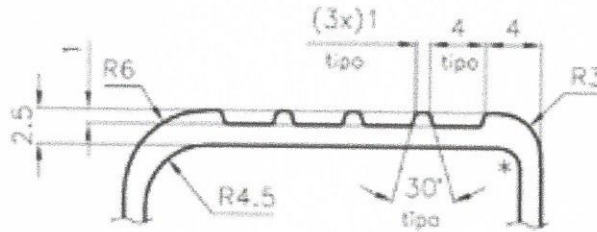
M.I.S. Products Limited  
 84 Manor Rise  
 Lichfield, Staffs., WS14 9RF  
 Tel: 07800 538661 Fax: 0870 762 0991  
 e-mail: sales@misproducts.co.uk





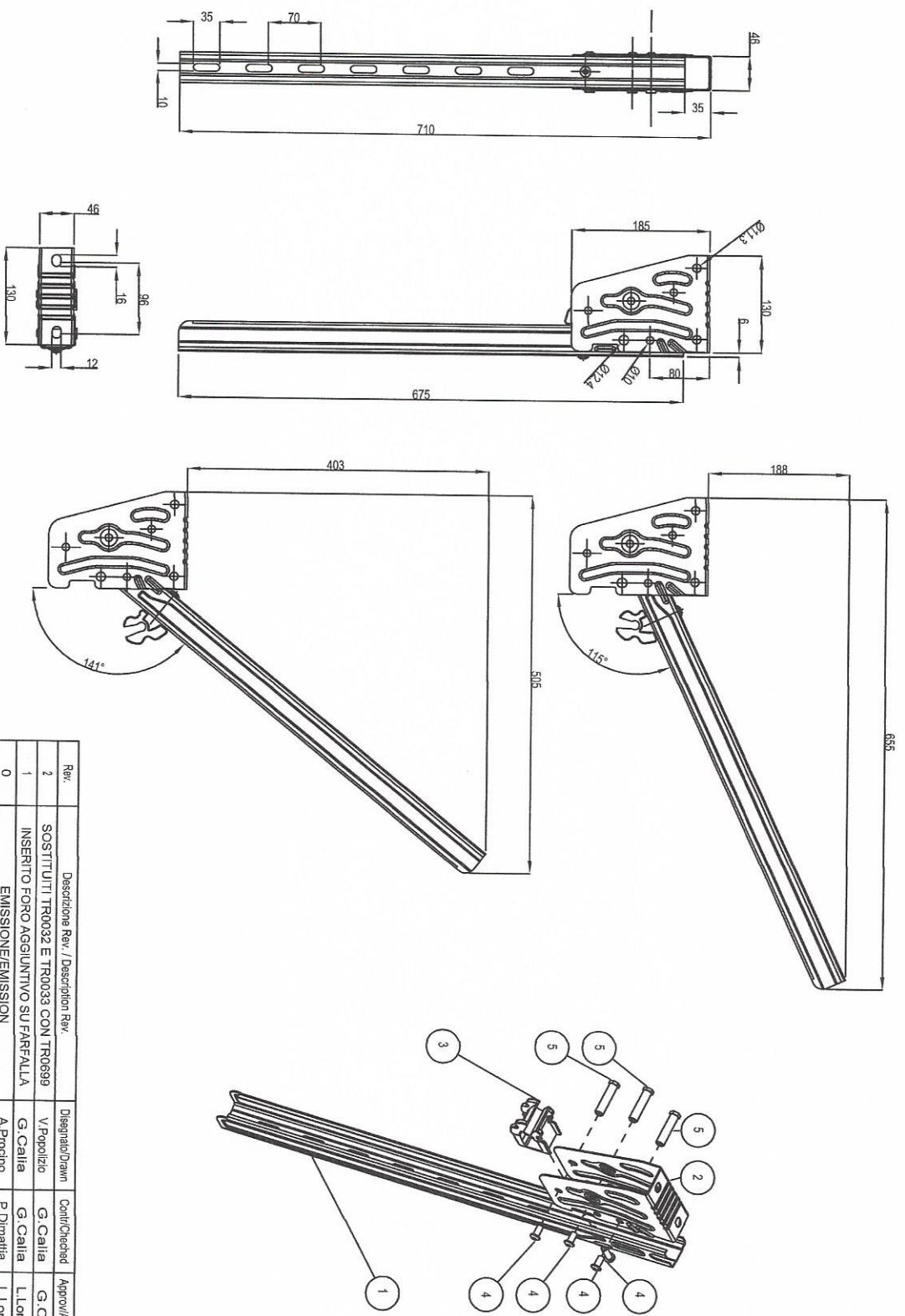
1	Alt. de indicação de área visível	03/12/16	E.P.	Aprovado em	Nº
2	Alt. de tolerância assinalada c/ ②	04/11/23	E.P.	Date	E281/10-03
				MARCA DE FABRICA	Perfil
					01/01

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 (Kg/m)	1.350	Secção mm²	500.0	VERIF.			Áreas Visíveis		Áreas Secundárias		
Perímetro Exterior (mm)	300.6	lx cm²	45.51	PRODU.			Escala: 1:1 2:1		A4		
Perímetro Total (mm)	587.6	ly cm²	7.20	* R1.5	Smax/Smin	2.5	Du/Smin	68.2	Du	102.3	14851260
Área Anod. (m²/m)	0.301	Liga	Al Mg Si 0.5 - F22	○ R1	sapa®			REV.Nº		Ref. perfil	
Área Padr. (m²/m)	0.154	Tolerâncias	NP EN 12020-02	● R0.5				2		CF-97-105	
				⊗	Portugal					Vehicle Certification Agency	
				△ RTotal						14 Nov-18	



5	TR0560	DD11	TUBETTI FE 360 TB/E M8x46.5 CH.5 Y ZN CL. 4, 8	3
4	TR0699	DD11	VITE T. BOMBATA ESAG. INCAS. ZN M8x20 CON TRATTAM. TUFLOK A 180°	4
3	TS300006	PA 6	MOLLA IN NYLON PER PARABICI NEW	1
2	TS301704	DD11	GAMBA FE 675 MM ZN A FREDDO	1
1	TS301202	DD11	FAREFALLA FE ZN A FREDDO	1
POS.	COD.	MATERIALE	DESCRIZIONE	Q.TA'

Rev.	Descrizione Rev. / Description Rev.	Disegnato/Drawn	Controllato/Checked	Approvato/Approved	Data/Date
2	SOSTITUITI TR0032 E TR0033 CON TR0699	V. Popolizio	G. Callia	G. Callia	10-09-13
1	INSERTO FORO AGGIUNTIVO SU FAREFALLA	G. Callia	G. Callia	L. Lorusso	25-09-13
0	EMMISSIONE/EMISSION	A. Prochiro	P. Dimattia	L. Lorusso	04-05-12
Non Quotati/No Dimens.		Toll. Gen./Tol. Gen.		Note:	
Raggi 0,5 mm Smussi 0,5 mm x45		ISO 2768-m			
Scale/Scale		Peso/Mass. (Kg)		Materiale/Material	
1		2,105		DD11 + PA 6	
Fogli/Sheet		Descrizione/Description:		Cod. Art./Code Art.	
1/1		STAFFA PER PROTEZIONE LAT. ZINC. A FREDDO (SPINOTTI CROMITING) NEW 710		TK3017	

**Takler**

PROPRIETA' RISERVATA / RESERVED PROPERTY





CUST.DWG.NO :-

ENQUIRY DRAWING NO. KL4979

SECTION NO. —

Unspec. corner rounded  $\phi 0.5$ mm

□ — Important Dimensions

○ — Check Point

Visible Surface — VS —

Painted Surface — PS — (Critical)

— PS — (Non-critical)

Unspec thickness : 1.3 mm

Thickness tolerance:  $\pm 0.30$  mm

Visible surface perimeter : 162.9 mm

Approx painted perimeter : - mm

Application : —

A/P: 306.7mm P/P : —

Area: 437.12mm<sup>2</sup> Finish : MF

Alloy : 6063A Temper : T6

Scale : 1 : 1 C.C.D: 102.9mm

LIN. WEIGHT: 1.189 Kg/M

UNSPEC.TOLERANCES TO FOLLOW JISH4100 BS1474 EN755-9:2008 DIN  MATING WITH SECTION NO.  $\neq$

CUSTOMER : PMUK(Aalco Manchester)

Date : 24/11/16

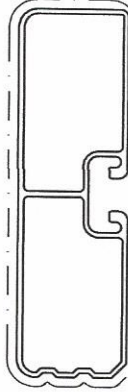
Drawn : CSL

Checked : SJX

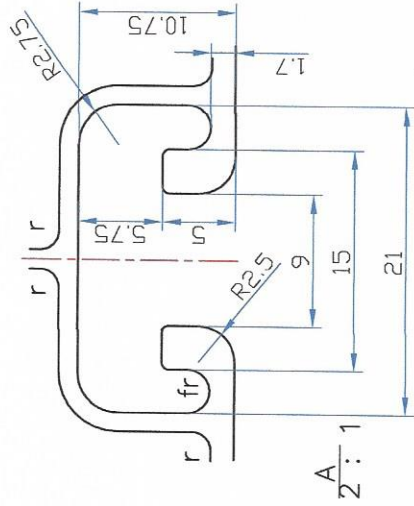
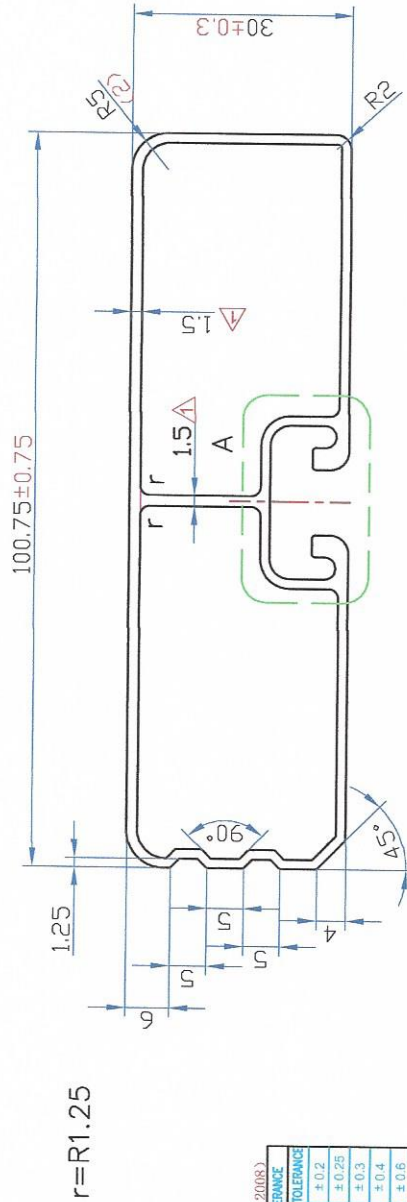
Date confirmed

Grade	SECTION CLASS / GRADE			STANDARD TOLERANCES	Name	Date	Description/Mark
	Class	S	H				
1	GENERAL			Solid	CSL	08/12/16	Refer drawing
2	NORMAL			Hollow			
3	DIFFICULT						
4	V.DIFFICULT						

Flatness :  
Straightness :  
Twist :  
Angular :



1 : 2



(EN755-9:2008)

SIZE TOLERANCE	TOLERANCE
>0-3	$\pm 0.2$
>3-6	$\pm 0.25$
>6-10	$\pm 0.3$
>10-25	$\pm 0.4$
>25-50	$\pm 0.6$
>50-100	$\pm 0.9$
>100-150	$\pm 1.1$
>150-200	$\pm 1.3$

CUSTOMERS APPROVAL

DRAWING

EXCLUSIVE SHAPES IN THESE INSTANCES WHERE THE SHAPE IS DEVELOPED AS AN EXCLUSIVE THE CUSTOMER WHOSE NAME APPEARS ON THIS DRAWING SHALL ACCEPT CLAIMS MADE BY THE CUSTOMER OR PRESS AGAINST THE CUSTOMER OR PERSONS CLAIMING UNDER THE CUSTOMER OR PRESS. THE CUSTOMER SHALL INDEMNIFY AND HOLD THE SUBJECT OF CONFIDENTIAL INFORMATION, THE CUSTOMER SHALL INDEMNIFY PRESS METAL AGAINST ALL DAMAGES, LOSSES AND EXPENSES ARISING OUT OF ANY CLAIM. THESE DIMENSIONS THIS DRAWING HAS BEEN CHECKED FOR CORRECT DIMENSIONS. THERE ARE NO DIMENSIONS OF THE CUSTOMER. ALTERATIONS MADE AFTER TOOLING MANUFACTURE IS COMMENCED WILL BE AT LOR ACCOUNT.

Approval Authority Agency

14-Nov-18

**KIT SELECTION TABLE. (Configuration Table)**

Appendix 3A

Kit No	Leg	Rail (s)	Max Drop (mm)	Max Leg Spacing (mm)	Max Overhang Front (mm)	Max Overhang Rear (mm)
5	TAKLER 500	SG132'L' (Single)	500	2500	500	200
6	TAKLER 700	SG132 'L' (Double)	700	2500	500	150

**Definitions.**

- Max Drop = Max drop to bottom of lowest rail
- Max Leg Spacing = Maximum distance between legs, taken from center of each leg
- Max Overhang Front = Maximum distance to front of rail, including pedestrian kit, from center of nearest leg.
- Max Overhang Rear = Maximum distance to rear of rail from center of nearest leg.