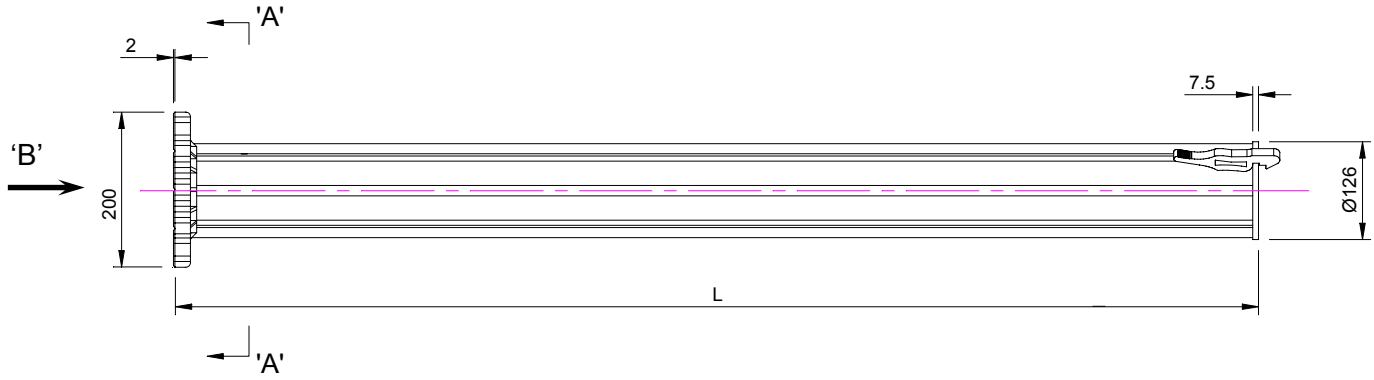
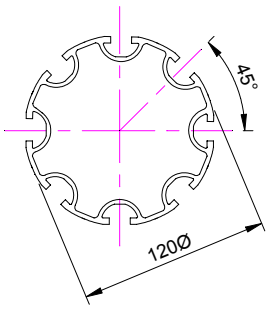
Gass System

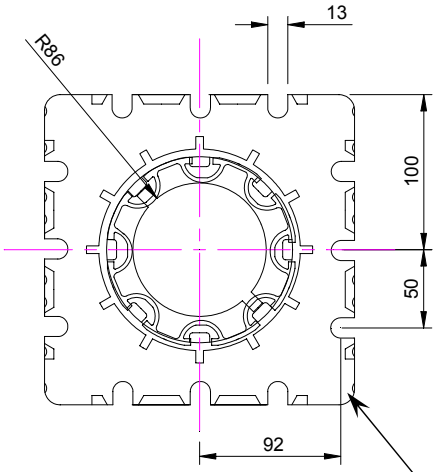
Index

GASS Leg

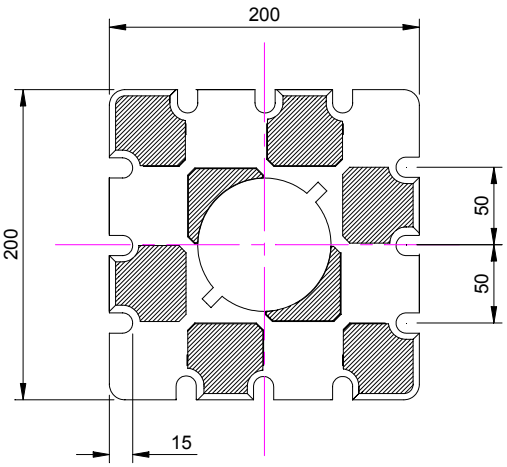




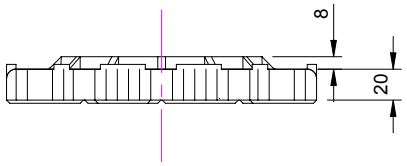
Leg Profile



Section 'A – A'



View On Arrow 'B'



Elevation on Base Plate

Note:
For the mating of the pattern on the underside of the square end plates on inner, outer legs and extension legs the serration's on the edges of the plates must match.

Specification / Properties:

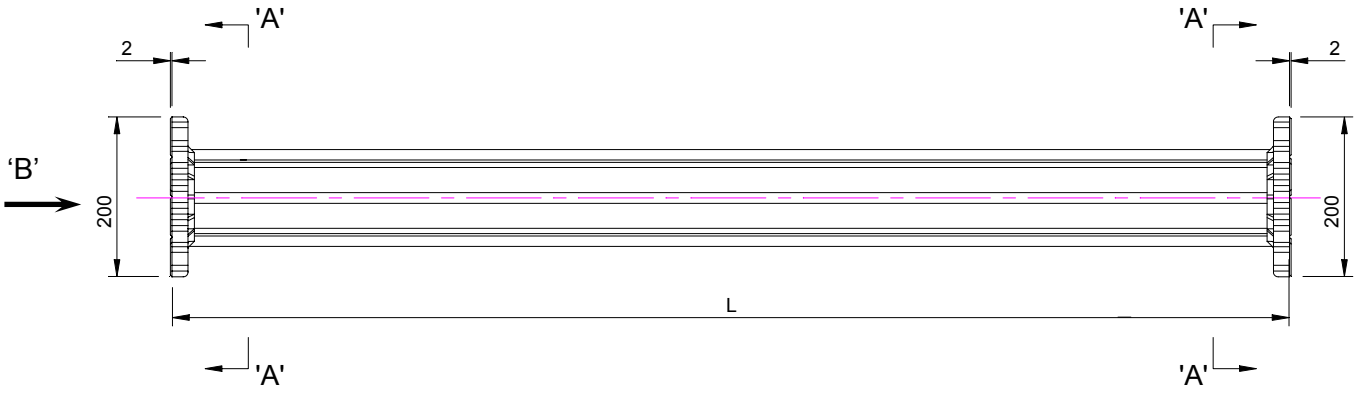
Outer Leg Material: Extruded Aluminium

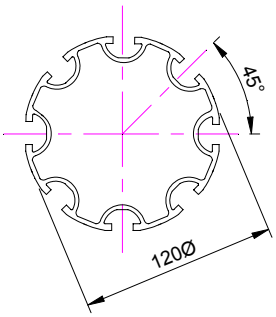
(L) Length	1400	Weight kg 8.04	**Code 718001**
	2490	Weight kg 12.73	**Code 718002**
	3580	Weight kg 17.41	**Code 718003**
	4670	Weight kg 22.10	**Code 718004**

C.S. Area = 16.00 cm^2 I = 235 cm^4 E = 68900 N /mm^2

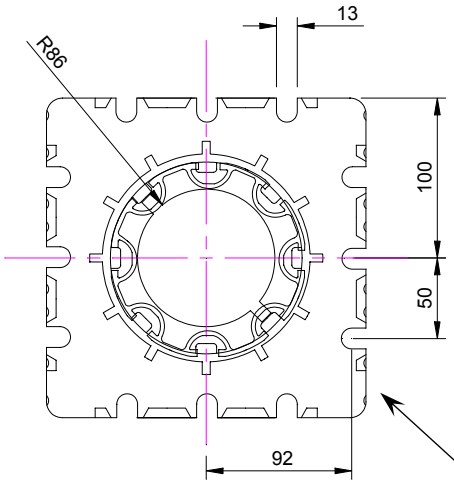
Leg Plate Material: Cast Aluminium Weight kg 1.88 Code N/A

Extension Leg

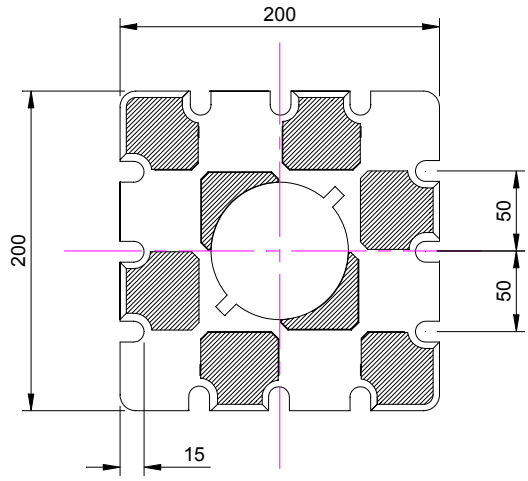




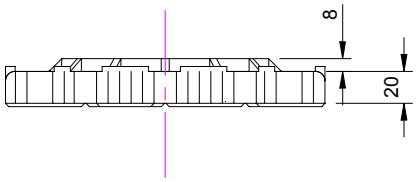
Leg Profile



Section 'A – A'



View On Arrow 'B'



Elevation on Base Plate

Note:
For the mating of the pattern on the underside of the square end plates on inner, outer legs and extension legs the serration's on the edges of the plates must match.

Specification / Properties:

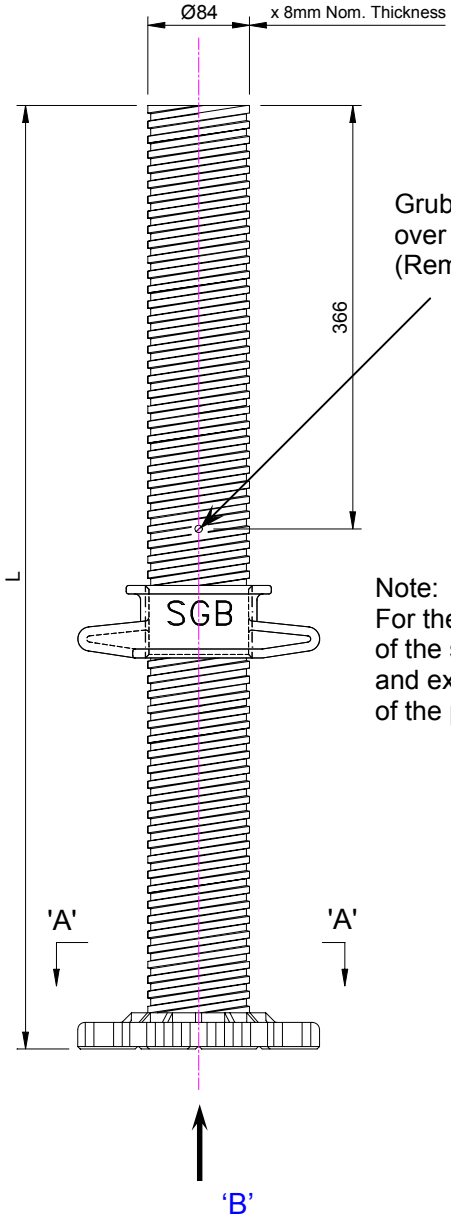
Extension Leg Material: Extruded Aluminum

(L) Length	500	Weight kg 5.63	**Code 718007**
	1400	Weight kg 9.54	**Code 718008**
	2490	Weight kg 14.23	**Code 718009**
	3580	Weight kg 18.91	**Code 718010**
	4670	Weight kg 23.60	**Code 718011**

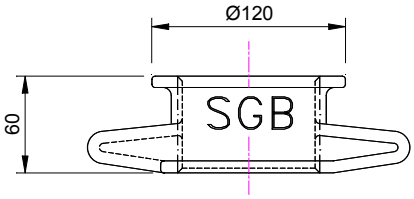
C.S. Area = 16.00 cm^2 I = 235 cm^4 E = 68900 N /mm^2

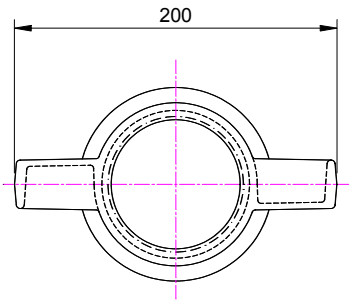
Leg Plate Material: Cast Aluminum **Code N/A**

Inner Leg (Adjustable Jack)

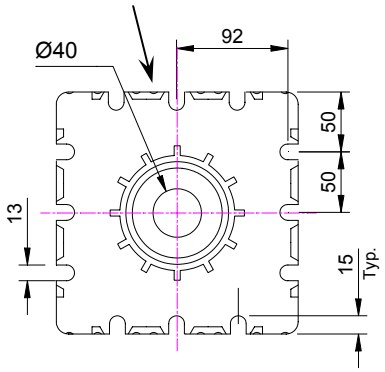


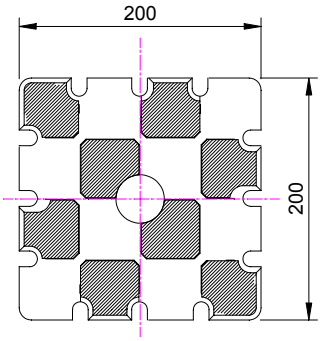
Grub screw to prevent over extension. (Removable)



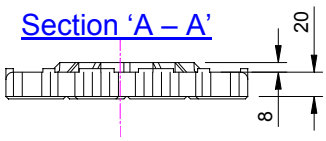


Note:
For the mating of the pattern on the underside of the square end plates on inner, outer legs and extension legs the serration's on the edges of the plates must match.





Section 'A – A'



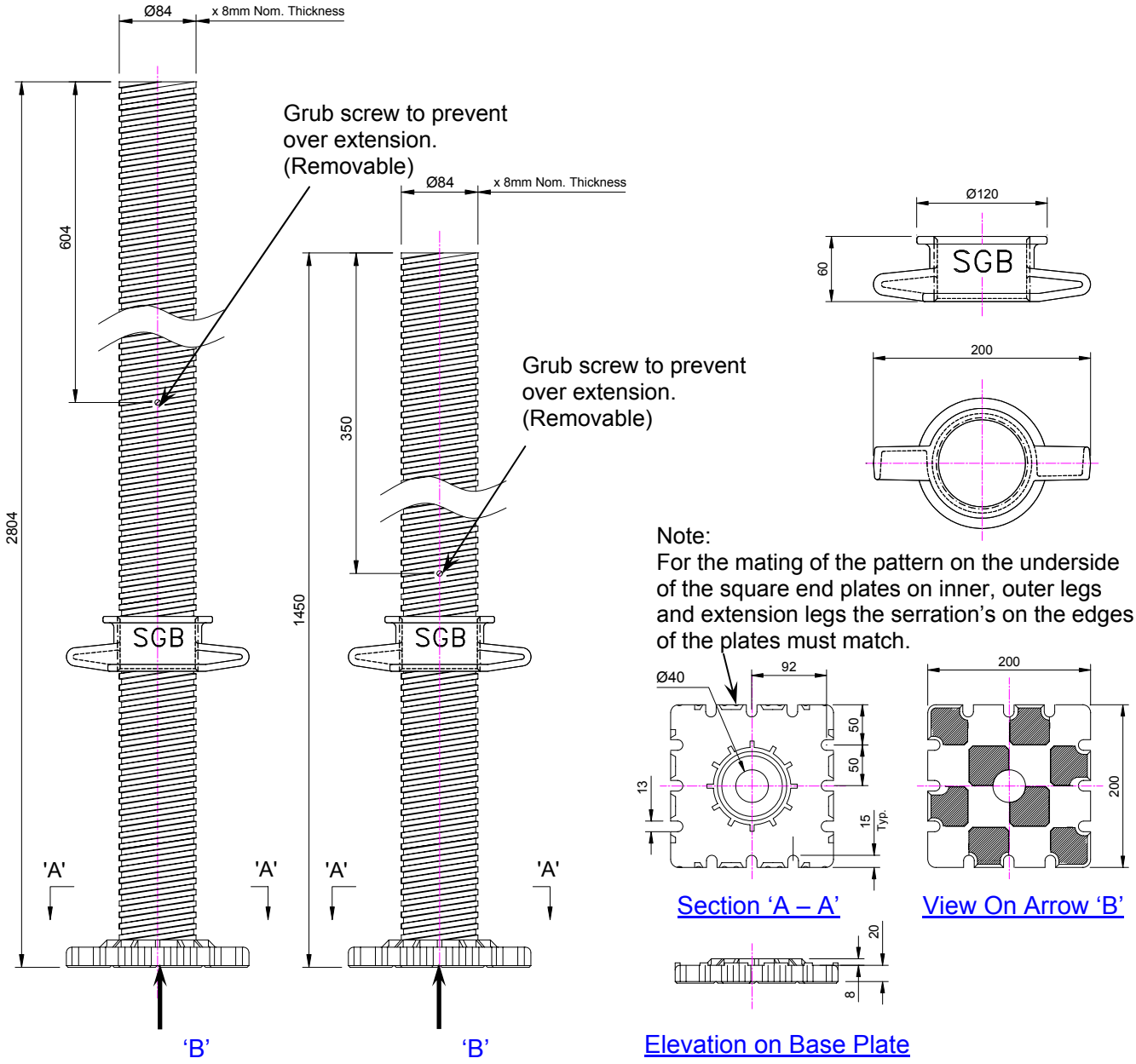
View On Arrow 'B'

Elevation on Base Plate

Specification / Properties

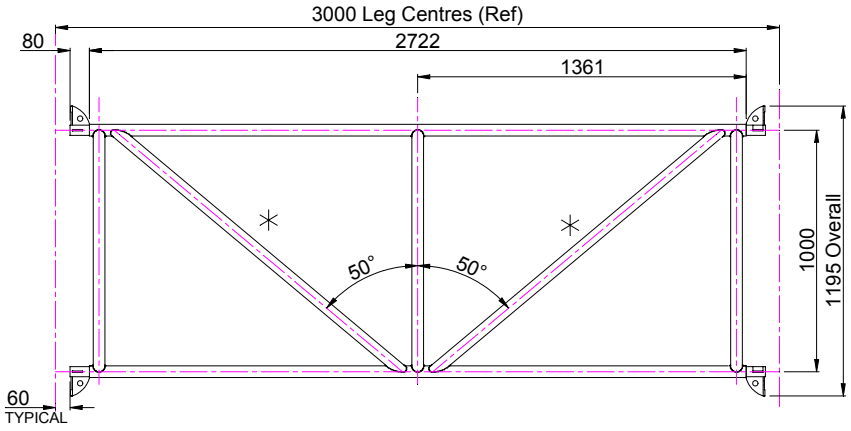
Inner Leg	Material: Alloy	C.S. Area = 16.94 cm ^{2}	I = 114cm^4	E = 68900 N/mm^2
(L) Length	780mm	Weight kg 5.5		**Code 718015**
	1680mm	Weight kg 10.2		**Code 718016**
Nut	Material: Cast Iron, Galvanized	Weight kg 1.1		
Plate	Material: Cast Aluminum			

Inner Leg Special Length (Adjustable Jack)

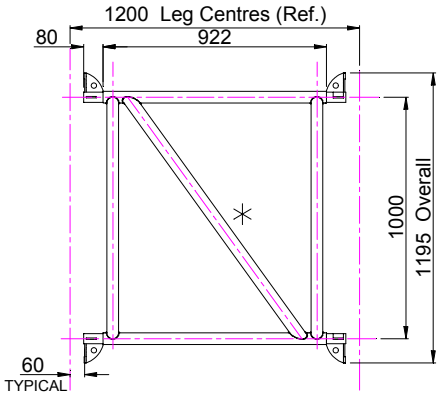


Specification/Properties: C.S. Area = 16.94 cm ^{2} I = 114cm^4 E = 68900 N/mm^2				
	Material	**Finish**	**Weight**	**Code No.**
Inner Leg 1450mm	Alloy		8.7kg	718014
Inner Leg 2804mm	Alloy		13.7kg	718017
Nut	Cast Iron	Galvanized	1.1kg	
Plate	Cast Aluminium			

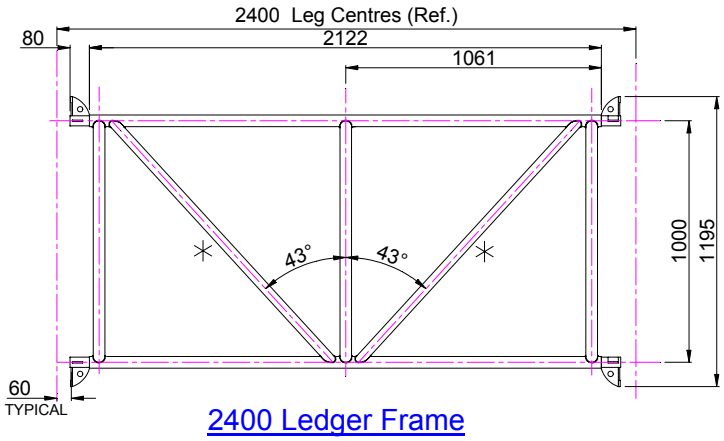
Ledger Frames



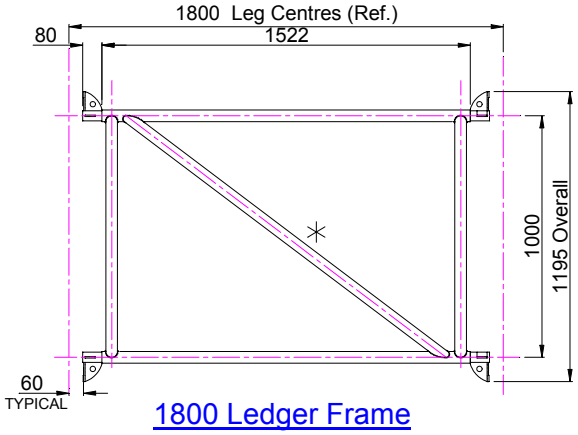
[3000 Ledger Frame]



[1200 Ledger Frame]



[2400 Ledger Frame]



[1800 Ledger Frame]

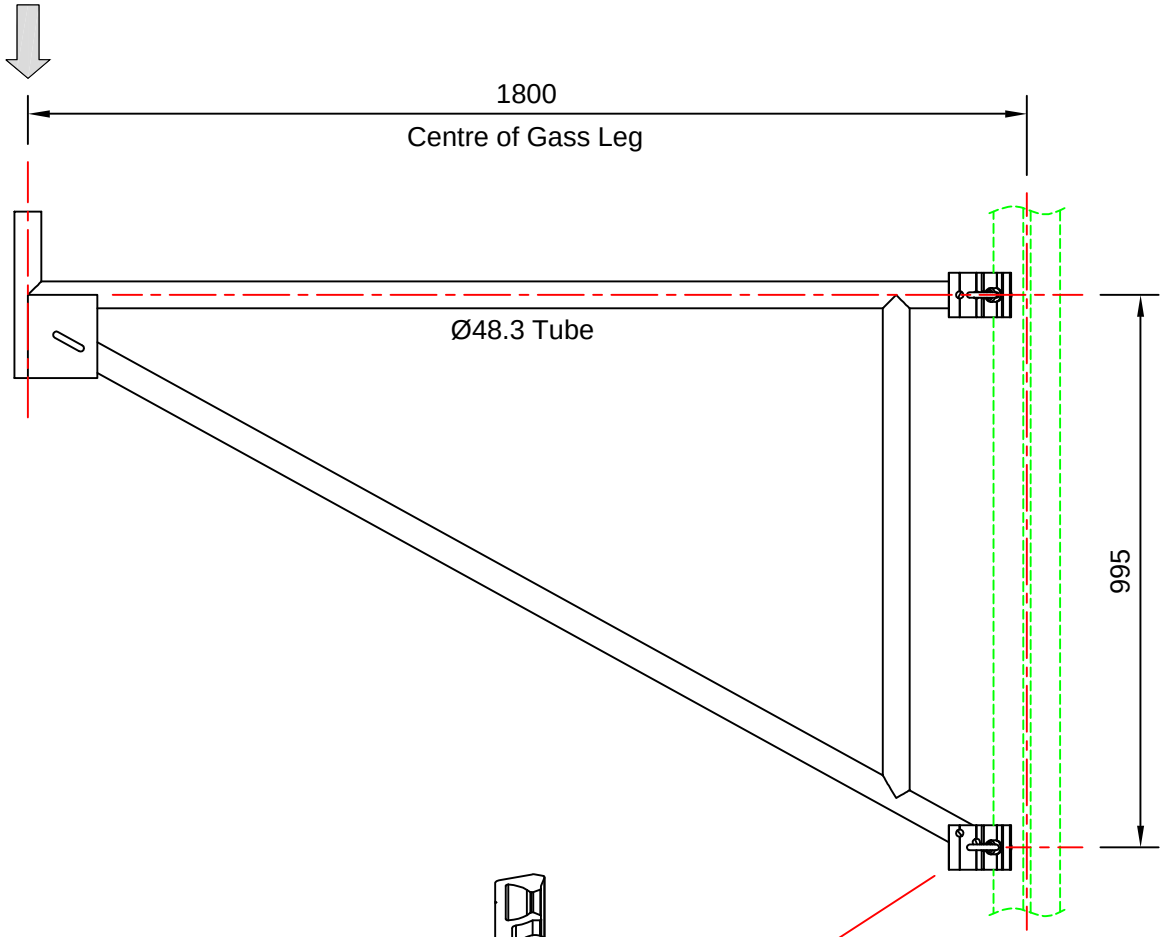
Frame Length (Leg center to Leg Center) (mm)	Weight (kg)	**Code**
1200	9.4	**718020**
1800	10.3	**718021**
2400	13.36	**718022**
3000	15.76	**718023**

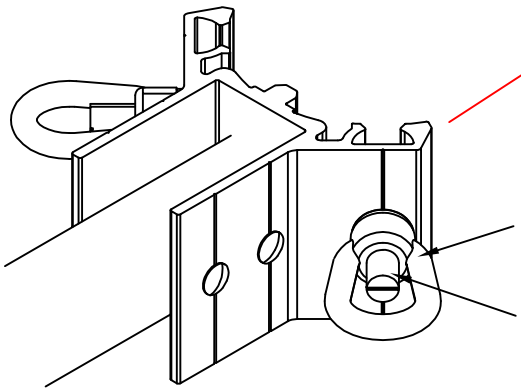
Specification / Properties: **Ledger Frame** Material:- Al Alloy

Guidance Notes: Top or Bottom horizontal members may carry platforms loaded @ 1.5kN/m² (Refer to page 111)
See page 104 for details of end fitting All tubes marked ' * ' are ∅44.4 x 2
All other tubes are ∅48.3 x 3.

Gass	
Component	**1.8m Cantilever Frame**

SWL = 5kN when applied vertically at this point





Extrusion Details

Specification/Properties:

Description	Material	Weight (kg)	Code No
Gass 1.8m Cantilever Frame	Aluminium	9.4	**718026**

Guidance Notes:
See page 138 for application details

These data sheets show the extent of the Gass Product. Not all products are available for hire/sale in all countries. Check with your nearest SGB branch.

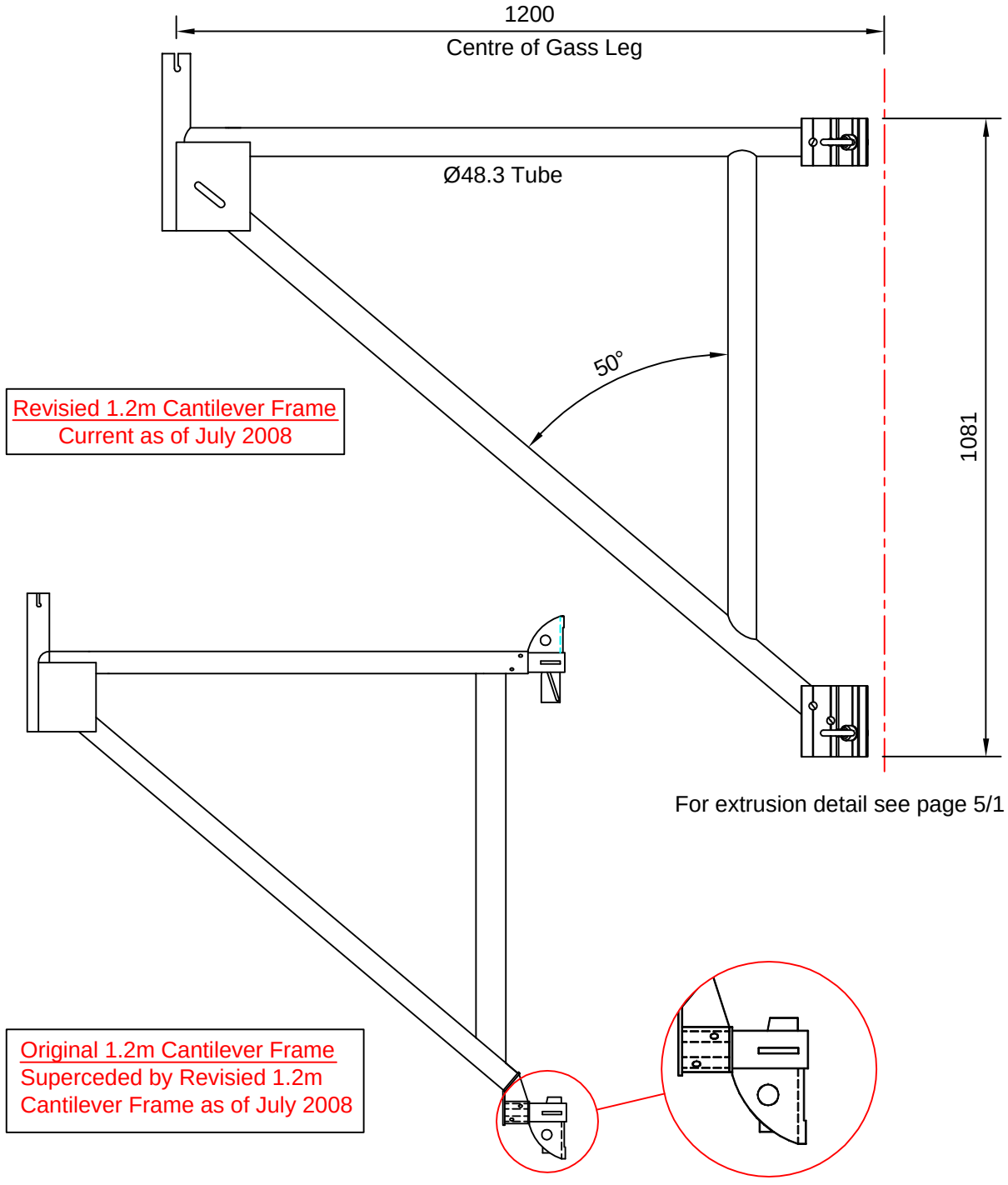
Unless otherwise stated, the data contained in this data sheet is expressed in terms of safe working loads

Date:	Issue:	Page:
26.02.08	A	5/1

Gass_005-1.dwg

GASS

Component	1.2m Cantilever Frame



For extrusion detail see page 5/1

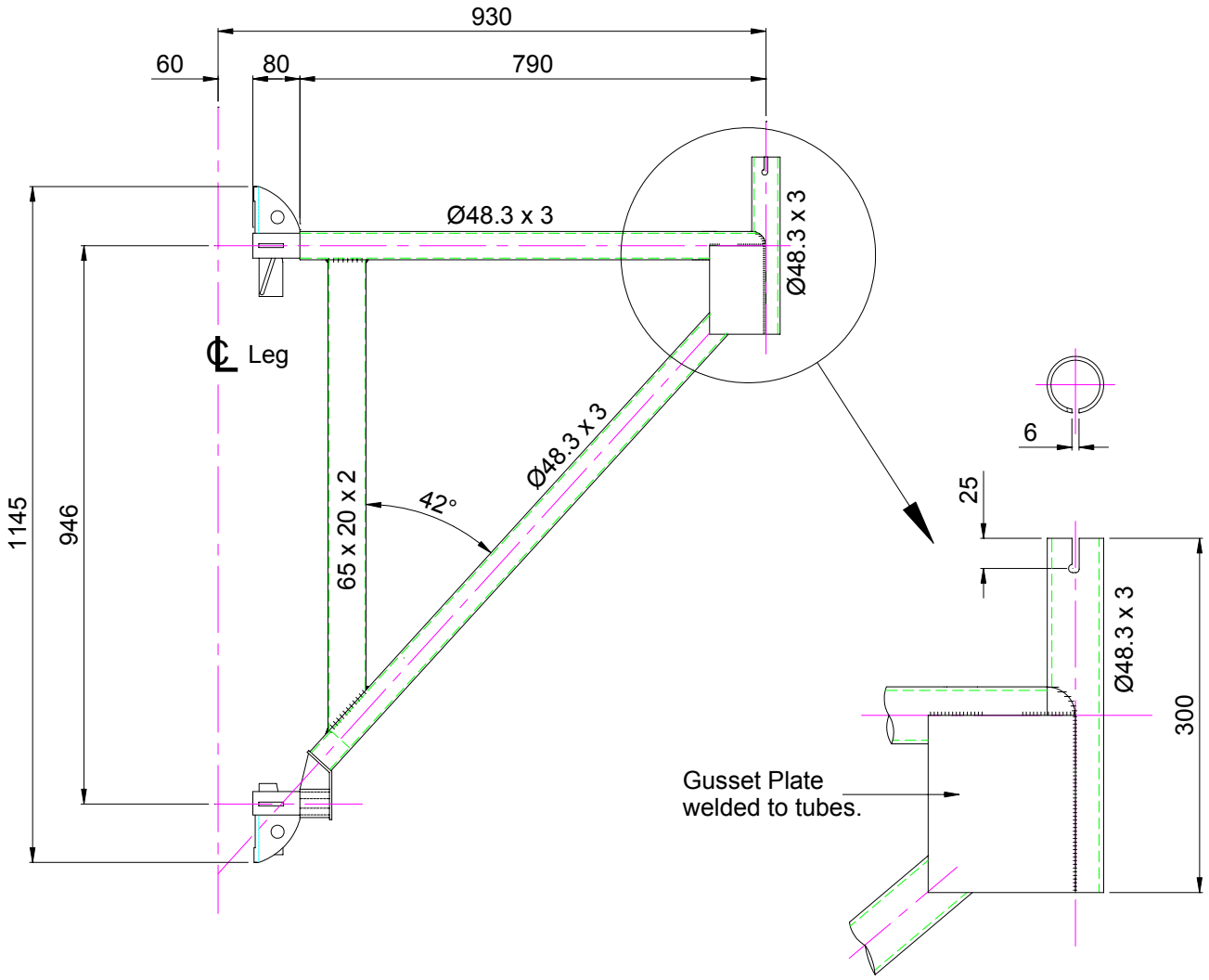
Specification/Properties:

Description	Material	SWL	Weight (kg)	Code No
Gass 1.2m Cantilever Frame	Aluminium	5kN	6.65	**718028**

Guidance Notes:

For details of the leg connection fittings for the revisied 1.2m Cantilever frame see page 138
For details of the leg connection fittings for the original 1.2m Cantilever frame see page 104
For details of the handrail post, see page 07

930mm Cantilever Frame



Elevation on Cantilever Frame

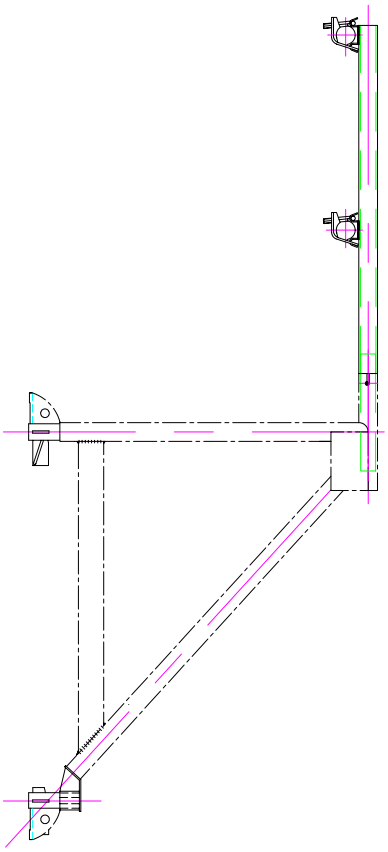
Enlarged Detail of Handrail Location Tube

Specification / Properties:

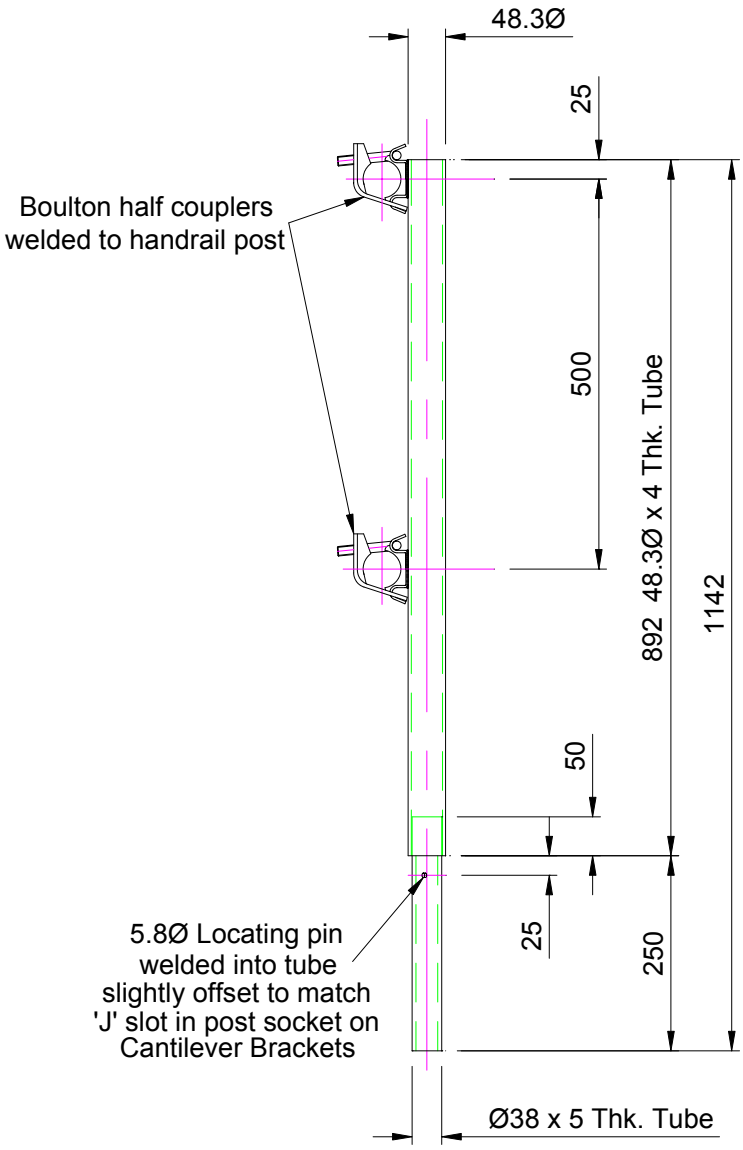
930mm Bracket	Material:- Al.Alloy	Weight:- 5.66 kg	SWL:- 5kN	**Code 718029**

Guidance Notes: For more details of leg connection fittings, see Page 104.
For details of handrail post see Page 007

Handrail Post



Elevation on Cantilever Frame
With Handrail Post Fitted



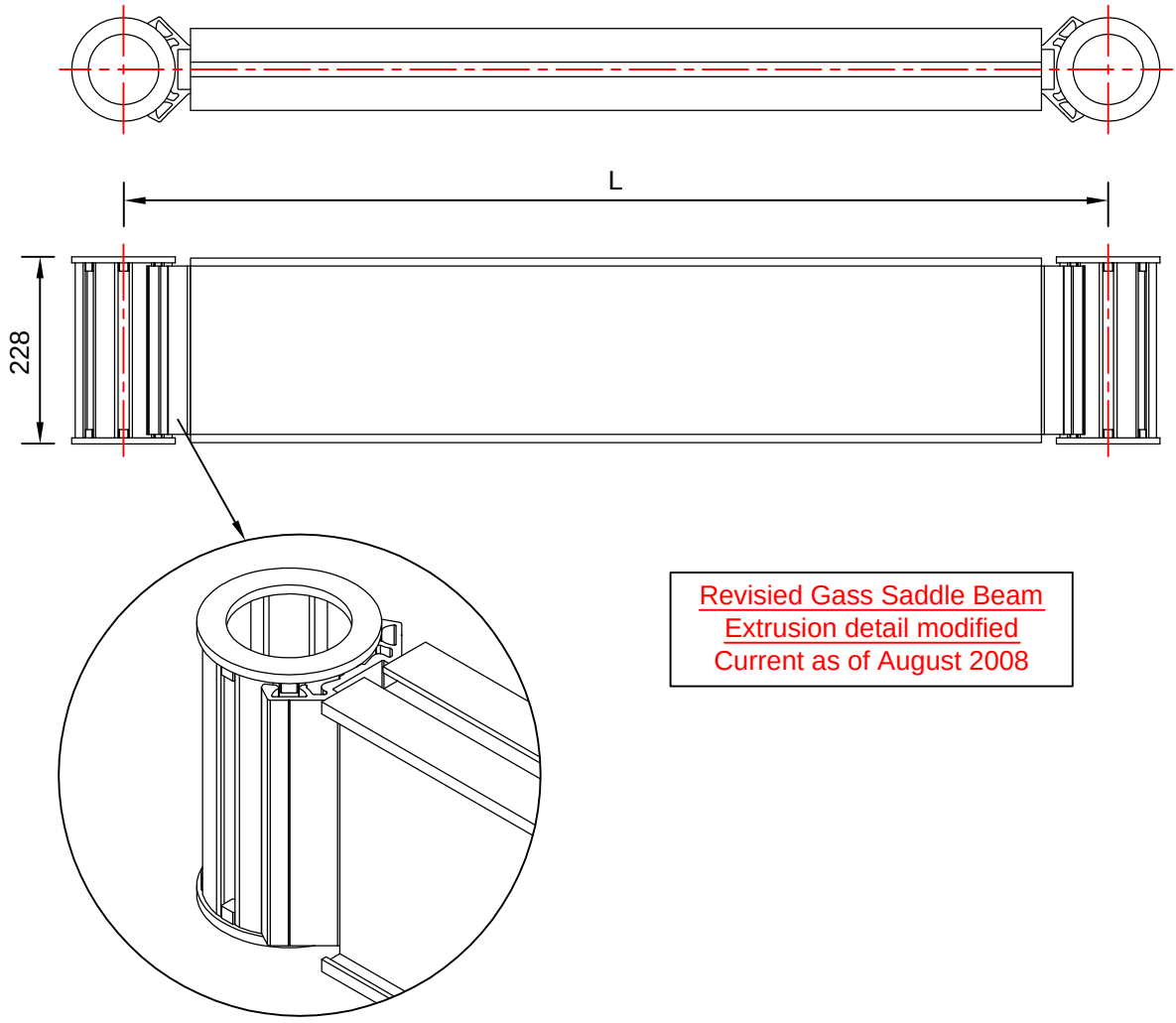
Enlarged Detail of Handrail Post

Specification / Properties:

Handrail post - Material: Mild steel, Galvanized Weight 5.5 kg **Code 718030**

Guidance Notes: Handrail post can be used on 930 or 1200 cantilever brackets.
For more details of cantilever brackets see Page 005 and Page 006.

GASS System	
Component	**Saddle Beam**



Revisied Gass Saddle Beam
Extrusion detail modified
Current as of August 2008

Detail of extrusion

Specification/Properties:

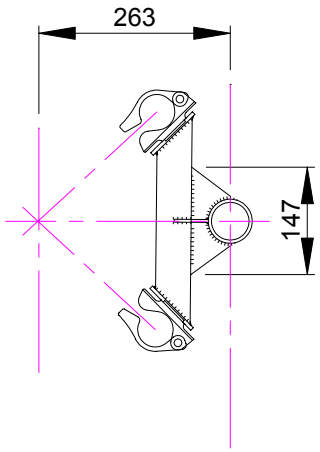
Description	Material	Weight (kg)	Code No
1200mm Long (L)	Aluminium	13.4	**718068**
1800mm Long (L)	Aluminium	18.4	**718069**
2400mm Long (L)	Aluminium	23.4	**718070**

Guidance Notes:

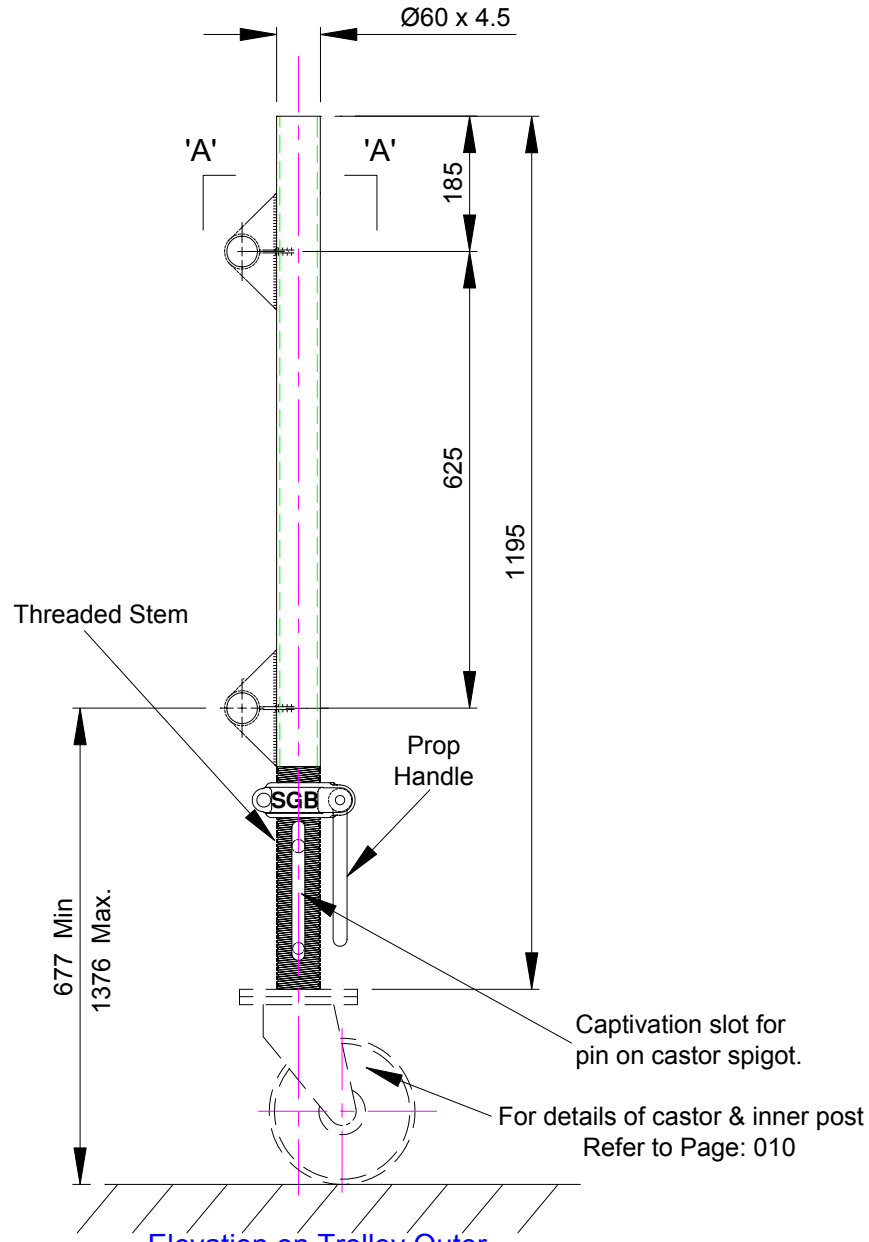
For application of Saddle beam see page: 105

For loadings of Saddle beam see page: 288

Trolley Outer



Plan View on 'A – A'



Elevation on Trolley Outer

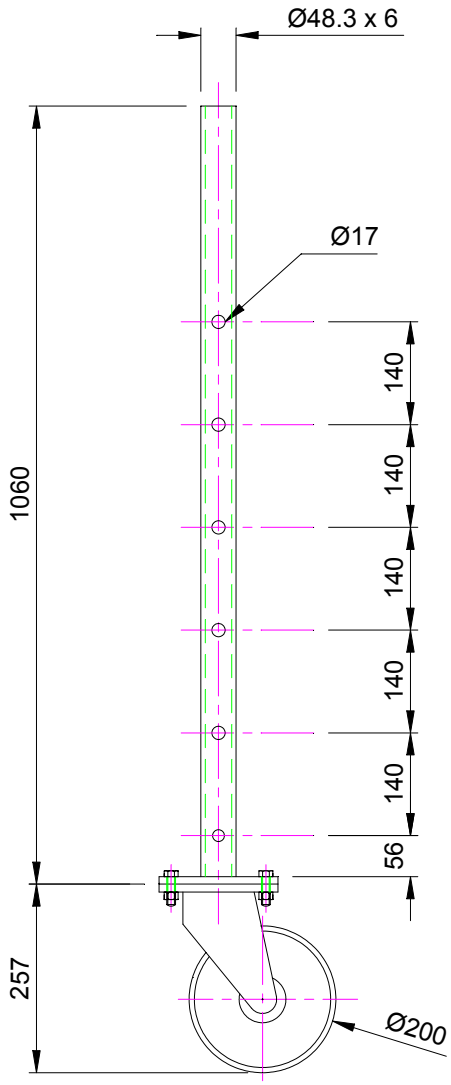
Specification / Properties:

Trolley Outer:- Material: Mild steel Weight: 12.5 kg (without Inner Trolley) SWL = 750 kg **Code No: 718075**

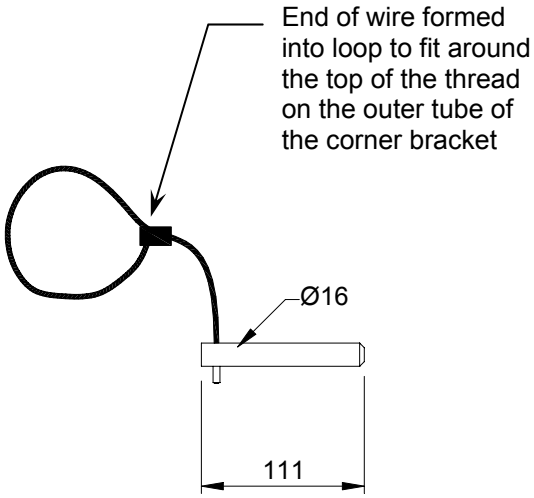
Guidance Notes:

The corner bracket system is used when it is necessary to move an assembled tower a short distance within a site on level and smooth ground. Refer to Applications – Pages: 106 & 107

Trolley Inner



Elevation on Trolley Inner & Castor



Detail of Pin & Wire

Specification / Properties:

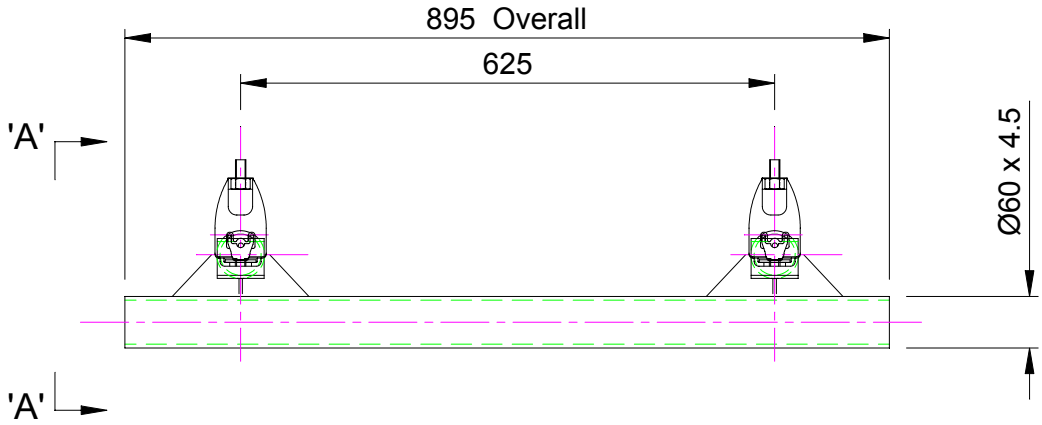
Trolley Inner and Castor:- Material: Mild steel Galvanized Weight: 15.5 kg **Code No: 718076**

Max load capacity 950 kg (per castor)

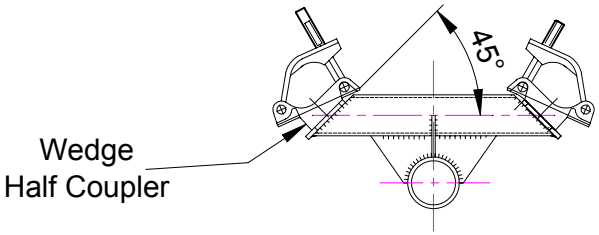
Guidance Notes:

For applications refer to pages 106 & 107

Corner Brace



Elevation On Corner Brace



View on 'A – A'

Specification / Properties:

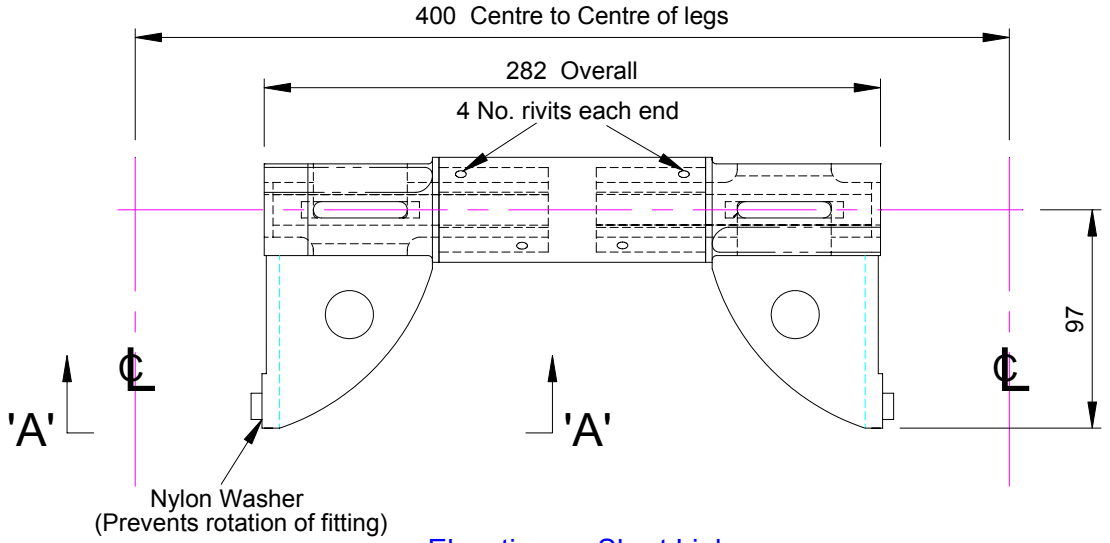
Corner Brace:- Material: Mild steel Galvanized Weight: kg TBA **Code No. 718061**

For assembly details see Page 108

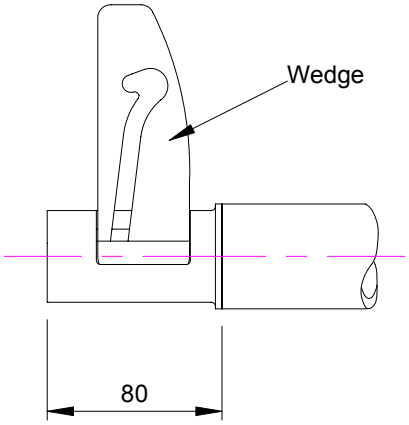
Guidance Notes:

The corner brace is intended for use as a method of ensuring that the 1st bay is erected and set with a true 90º Angle at each corner.
With larger structures additional corner bracing may be required in occasional bays to ensure that the whole structure remains square and true.

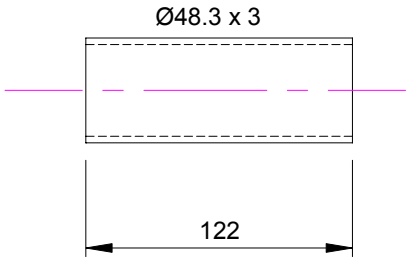
Short Link – 400mm



Elevation on Short Link



Part View on 'A – A'



Spacer Tube Detail

Specification / Properties:

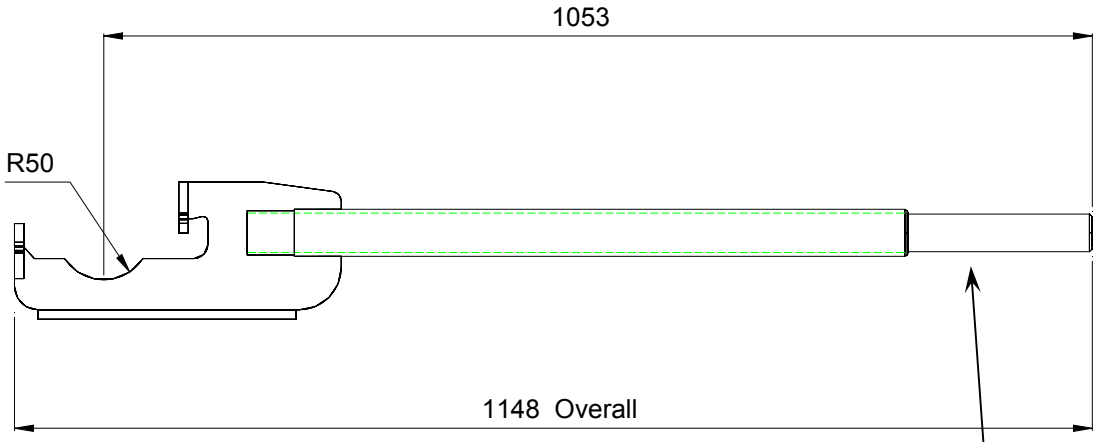
Tube:- Material: Aluminum **Code 718062**

Fittings:- Material: Spheroidal graphite cast Iron **Code** N/A
Length (Leg centre to Leg centre) 400 mm
Combined Weight:- 2.5 kg
Maximum Axial Load:- 5 kN

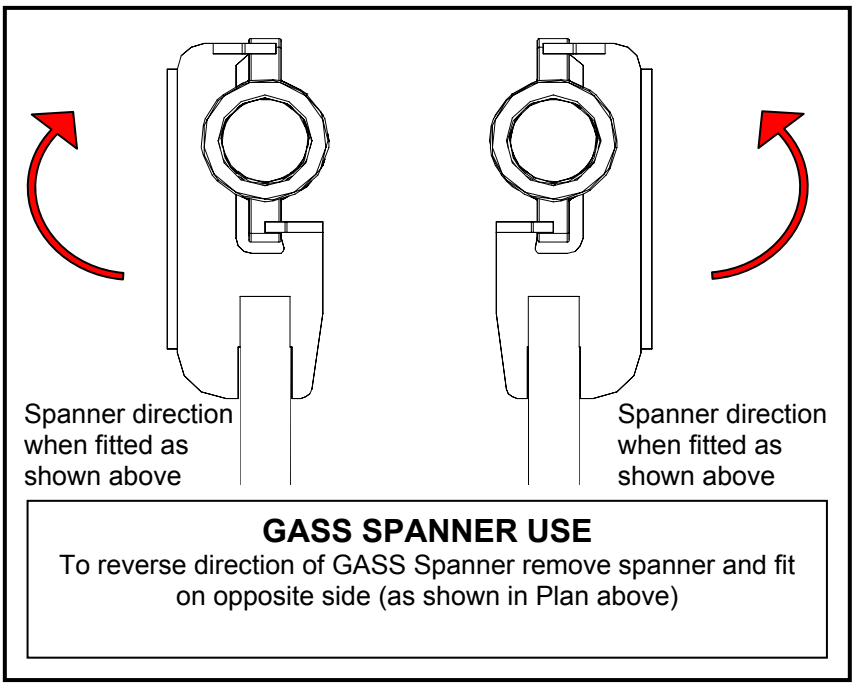
Guidance Notes:

Use as a spacer only. These are not an alternative to ledger frames in 400mm spaced legs.
This space linker suitable for leg centres of 400mm.
For applications refer to Page: 109

Spanner for Nut (Inner/Outer Leg Assembly)



Spanner handle can be extended with Standard Scaffold Tube fitted to Spigot



GASS SPANNER USE

To reverse direction of GASS Spanner remove spanner and fit on opposite side (as shown in Plan above)

Specification/Properties

Material: Steel (S355JO – BSEN 10025; S355JOH – BSEN 10219)
Weight: Approx. 8kg

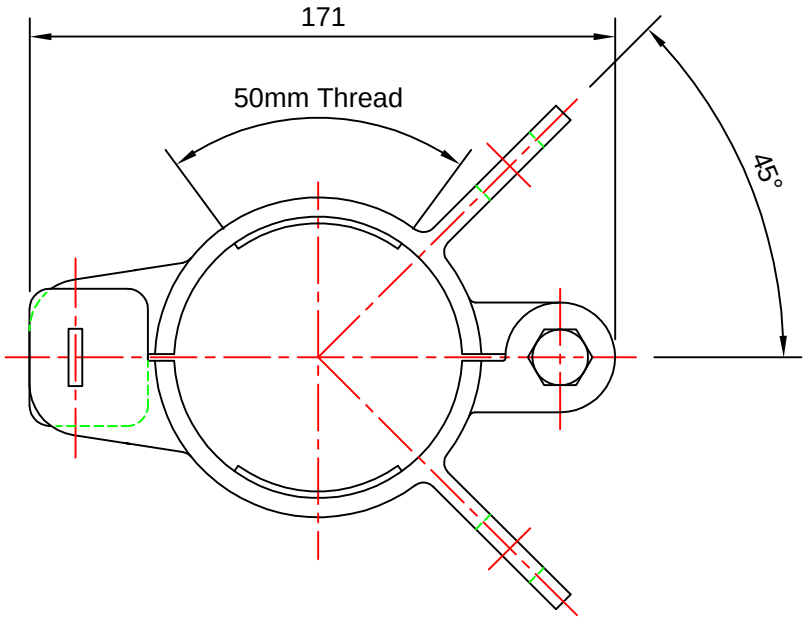
Finish: BZP (Yellow)
Product Code: 718063

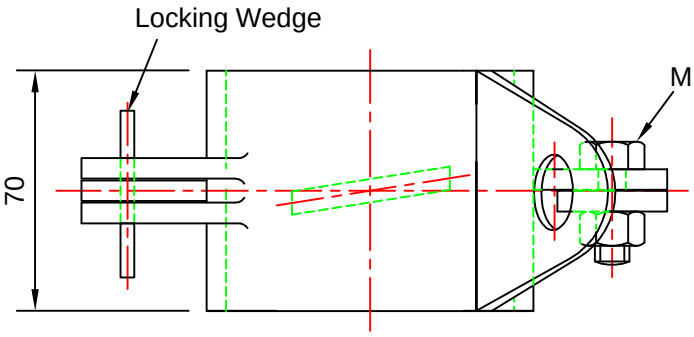
Guidance Notes

- In tests, gass legs loaded to 140kN required a **max. release torque of 0.9kN.** (Gass nuts were unlubricated and the load was applied axially)
- The torque of 0.9kNm equates to approx. 90kg being applied to the handle 1 meter from the leg centre or 45kg being applied 2 meters away from the leg centre (i.e. Spanner used with an extension scaffold tube).
- Note: A standard scaffold tube will fail at approximately 2kNm. It is recommended that the gass nut is lubricated to reduce the required release torque. See Gass safe assembly and dismantling guide.

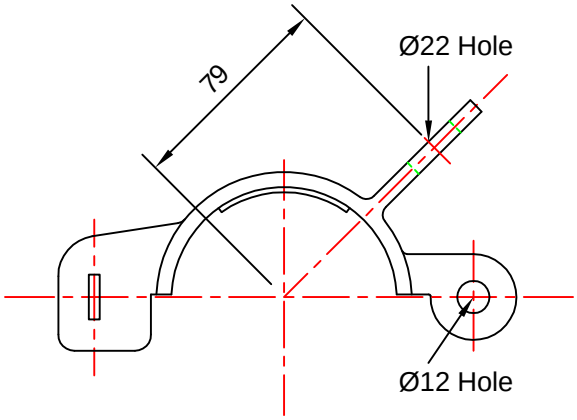
CAUTIONARY NOTE: CARE SHOULD BE TAKEN WHEN CARRYING OR OPERATING THE GASS SPANNER AT HEIGHT. IT IS STRONGLY RECOMMENDED THAT A THOROUGH RISK ASSESSMENT BE CARRIED OUT

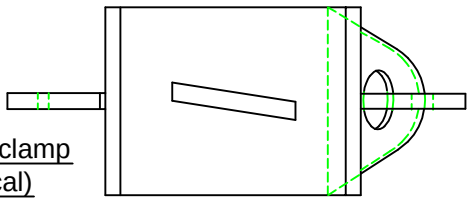
Gass System	
Component	**Jack Bracing Collar**





Assembled Unit





Detail of one half of the clamp
(Both halves indentical)

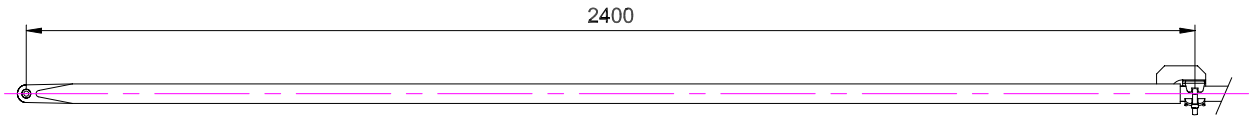
Specification/Properties:

Description	Material	Finish	Weight (kg)	Code No
Jack Bracing Collar	Steel	Zinc Plated	1.5	**718045**

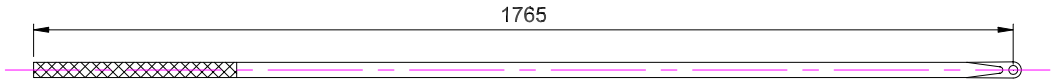
Guidance Notes:

For bracing arrangement see Page 110.

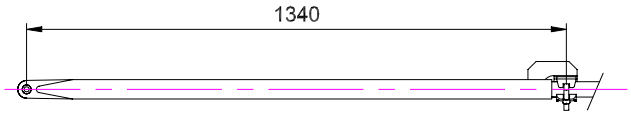
Diagonal Brace with Latch Locks



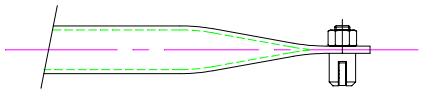
Outer Type



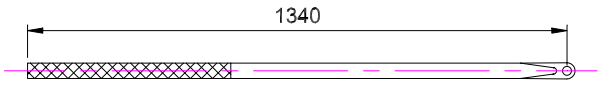
Inner Type



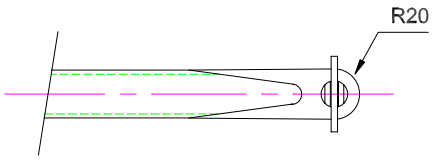
Outer Type



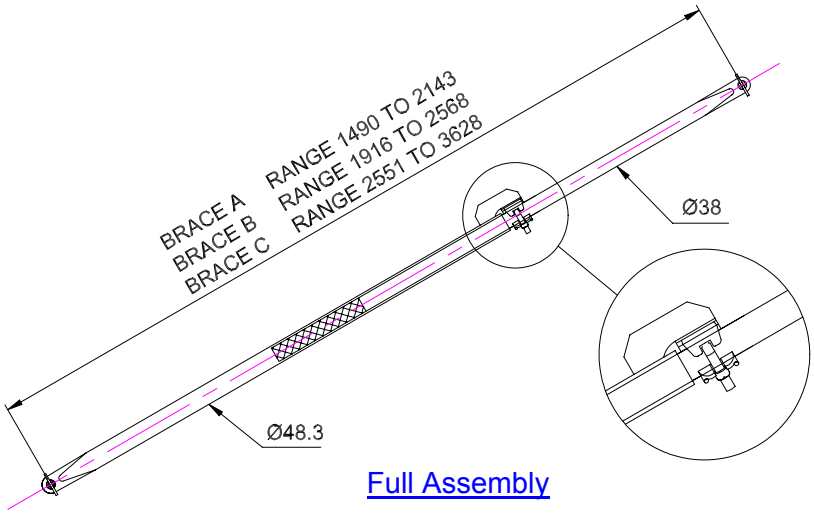
Enlarged Part Elevation Of Latch Lock



Inner Type



Enlarged Part View on U/S of Latch Lock



Full Assembly

Configuration		
Brace	Outer Used	Inner Used
A	1340	1340
B	1340	1765
C	2400	1765

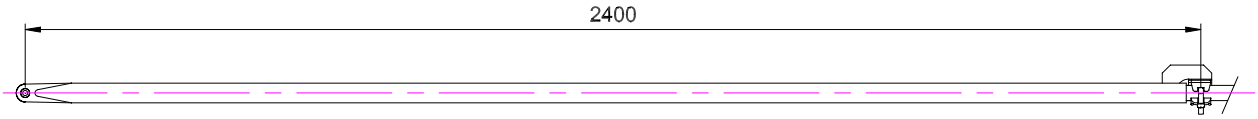
Specification / Properties: (For braces with Ø22 holes see page 016)

Diagonal Brace A	Weight 9.02 kg	**Code no: 718055**
Diagonal Brace B	Weight 10.2 kg	**Code no: 718056**
Diagonal Brace C	Weight 14.0 kg	**Code no: 718057**

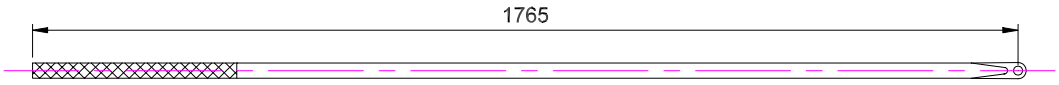
Safe Load:- 6.25 kN

For bracing arrangement see Page: 110

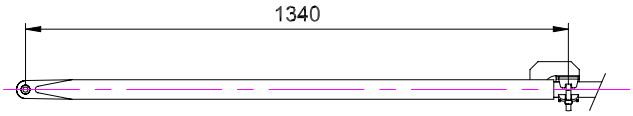
Diagonal Brace with Ø22 Holes



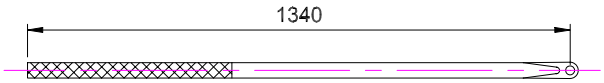
Outer Type



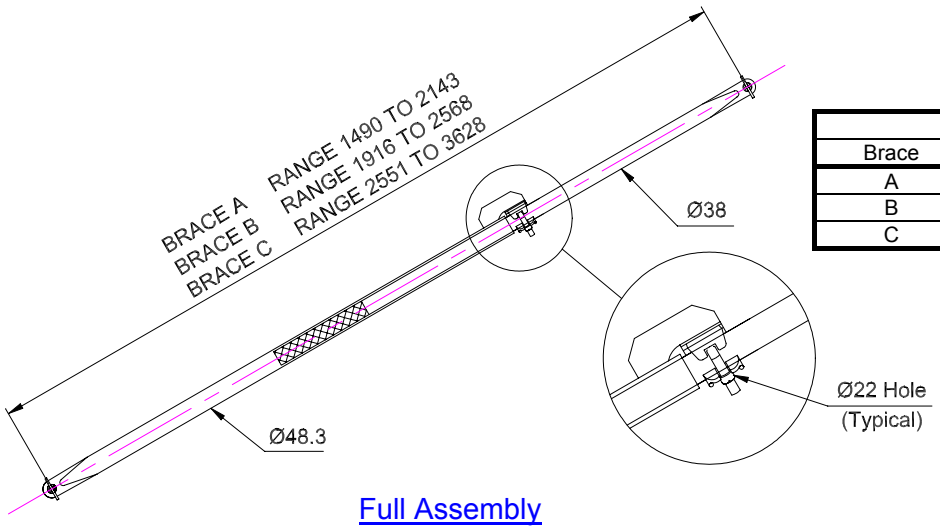
Inner Type



Outer Type



Inner Type



Full Assembly

Configuration		
Brace	Outer Used	Inner Used
A	1340	1340
B	1340	1765
C	2400	1765

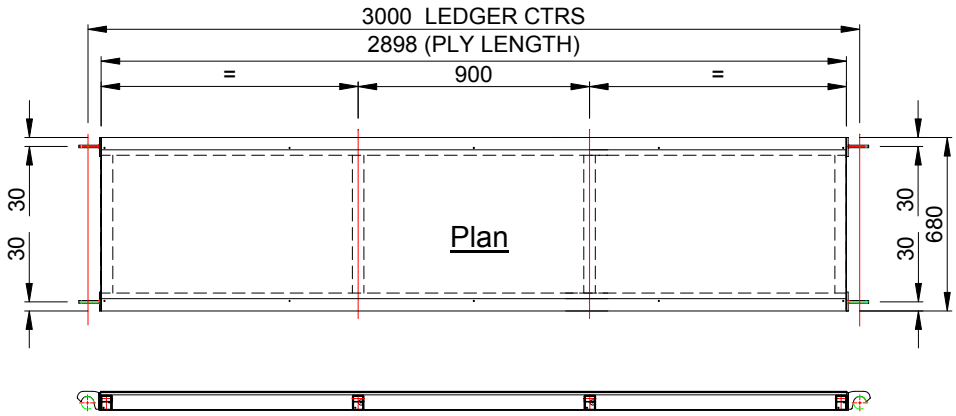
Specification / Properties: (For braces with Latch Locks see page 015)

Diagonal Brace A	Weight 9.02 kg	**Code no: 718058**
Diagonal Brace B	Weight 10.2 kg	**Code no: 718059**
Diagonal Brace C	Weight 14.0 kg	**Code no: 718060**

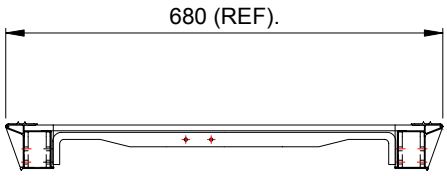
Safe Load:- 6.25 kN

For bracing arrangement see Page: 110

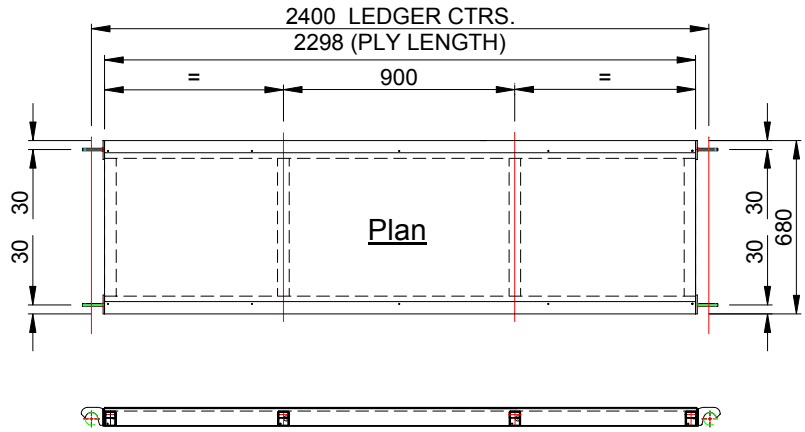
Access Platforms (Sprint Style) – 1.8m, 2.4m & 3.0m



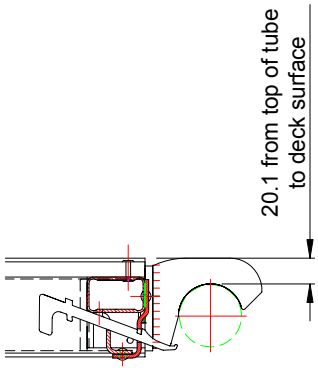
Elevation of 3.0m Access Platform



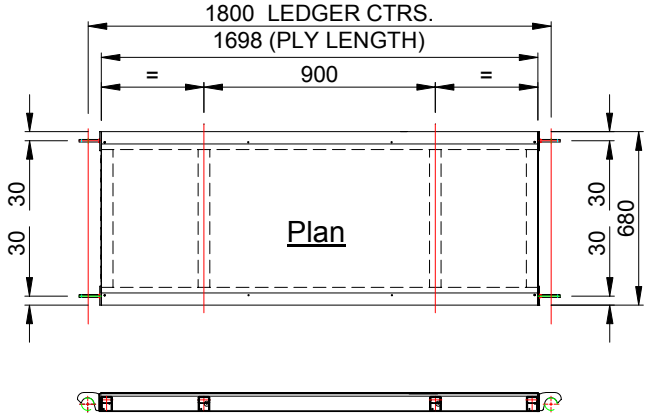
Enlarged Typical Cross Section



Elevation of 2.4m Access Platform



Enlarged Detail of Windlock Fitting

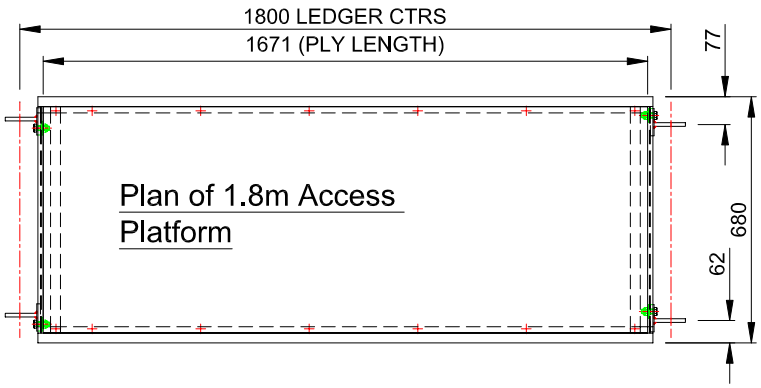


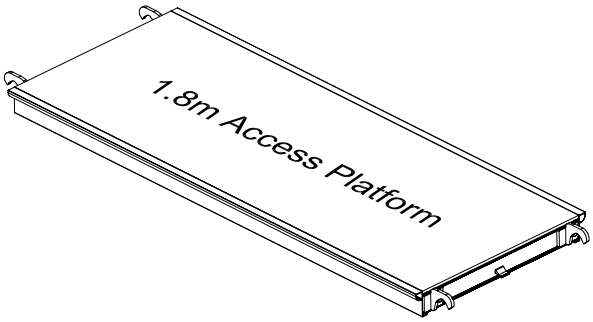
Elevation of 1.8m Access Platform

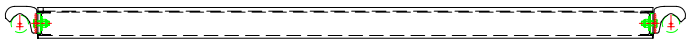
Specification / Properties:	3.0m Platform	Weight: 23 kg	SWL 1.5 kN/m^2	**Code no: 718084**
	2.4m Platform	Weight: 19 kg	SWL 1.5 kN/m^2	**Code no: 718083**
	1.8m Platform	Weight: 16.4 kg	SWL 1.5 kN/m^2	**Code no: 718082**

Note: This item exists as a stock item only. See page 017B for details of superseding decks.

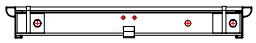
Access Platforms – 1.8m, 2.4m & 3.0m



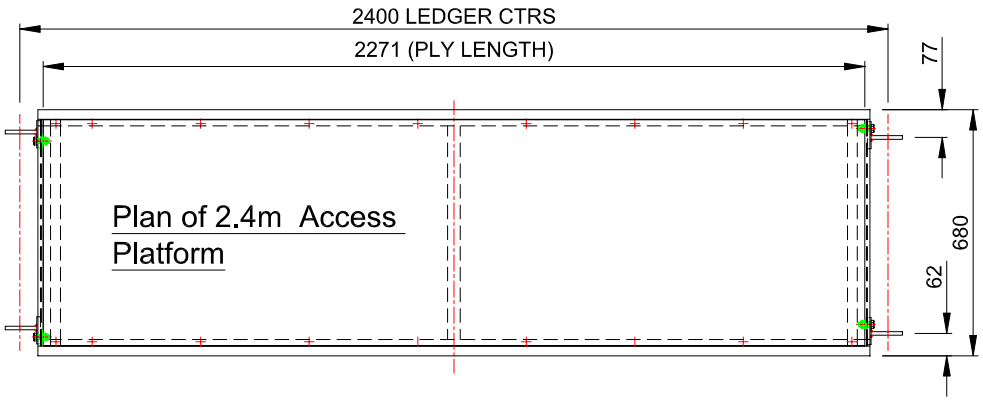


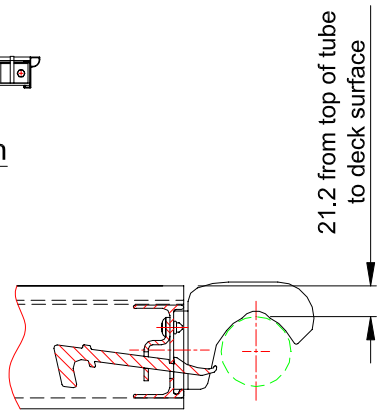


Side Elevation: 1.8m Deck

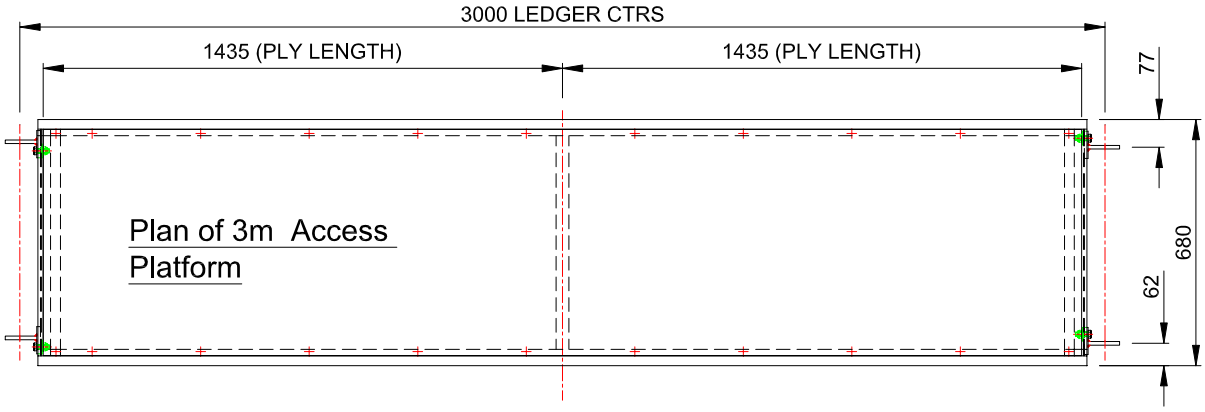


End Elevation





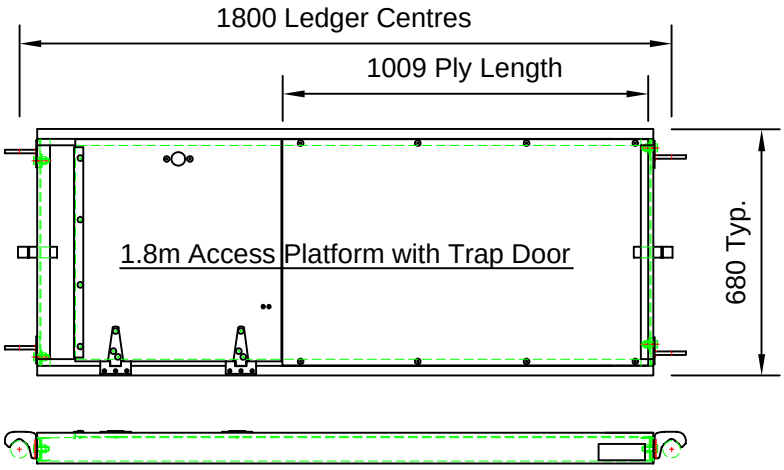
Section Through Wind-Lock in open position.
NB. Bolt omitted for clarity



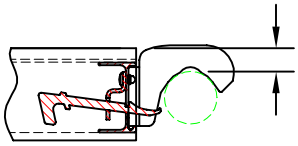
Specification / Properties:	3.0m Platform	Weight: 26.2 kg	SWL 1.5 kN/m^2	**Code no: 718084**
	2.4m Platform	Weight: 19.9 kg	SWL 1.5 kN/m^2	**Code no: 718083**
	1.8m Platform	Weight: 15.3 kg	SWL 1.5 kN/m^2	**Code no: 718082**

GASS System

Component	Access Platform with Trap Door 1.8m, 2.4m & 3.0m

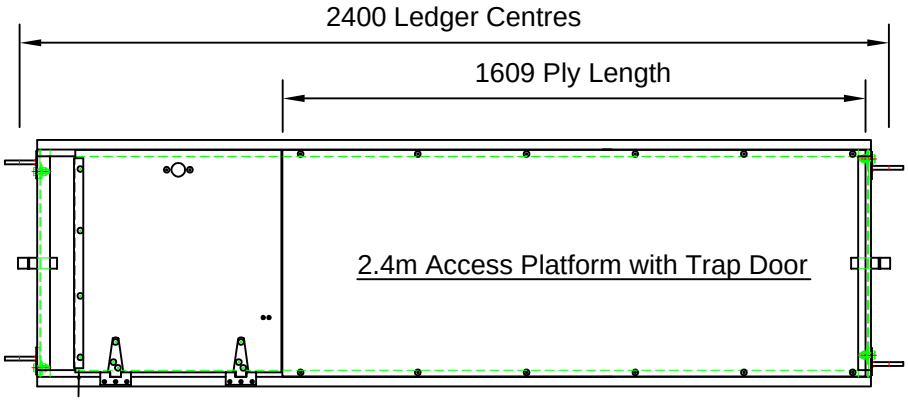


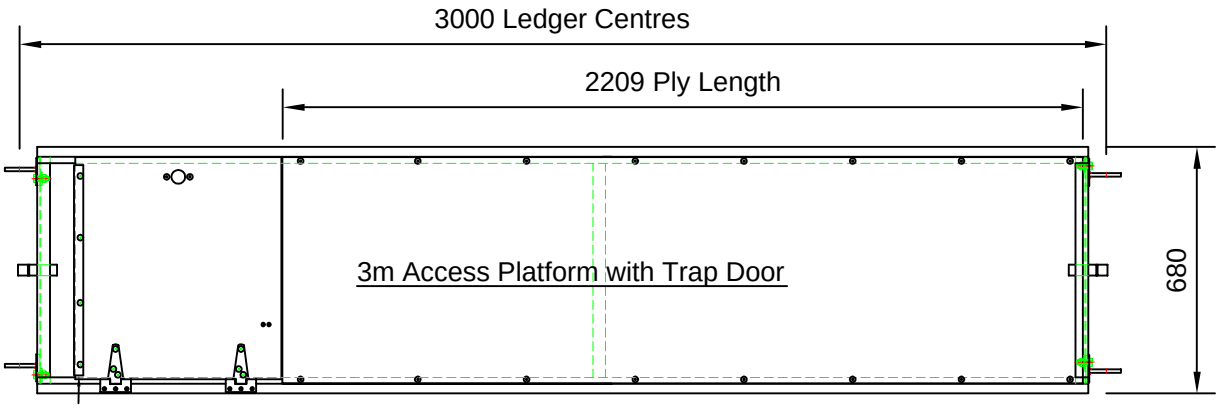
21.3 from top of tube to deck surface



Section Through Wind-Lock in open position.
NB. Bolt omitted for clarity

End Elevation





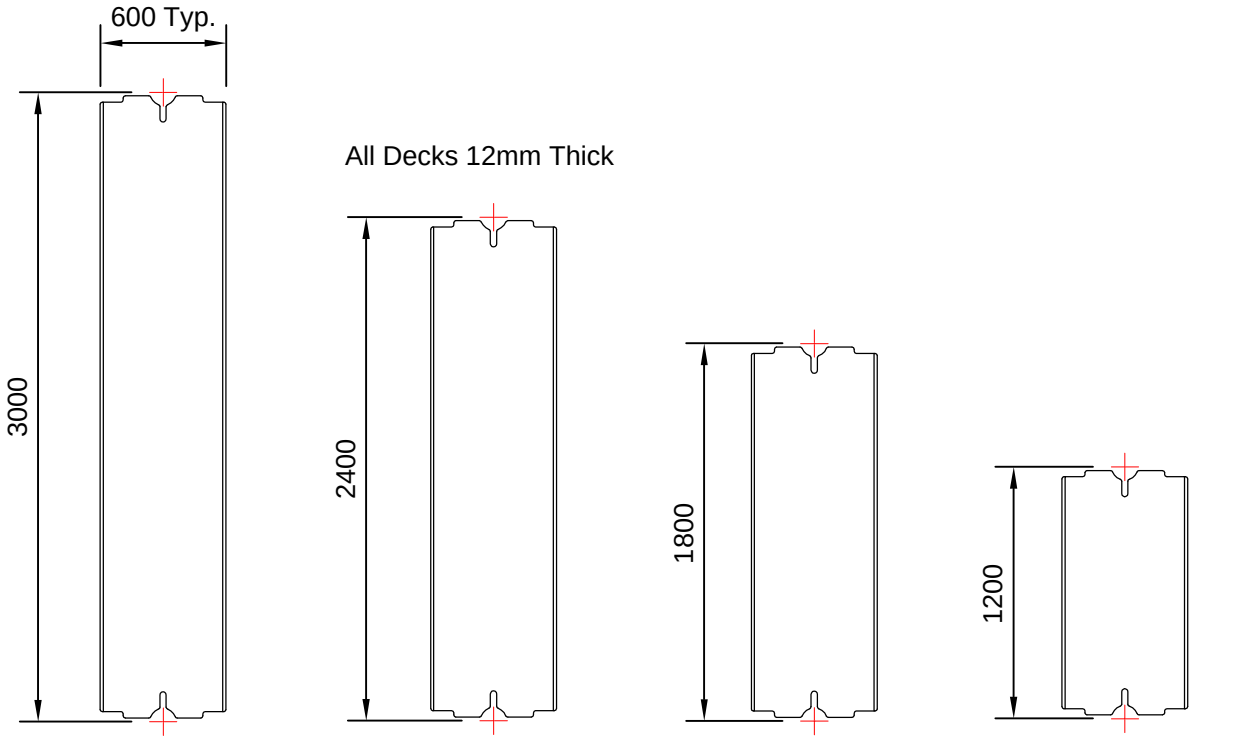
Specification/Properties:

Description	Weight (kg)	SWL (kN/m²)	Code No
3.0m Access Platform	26.2	1.5	**718088**
2.4m Access Platform	19.9	1.5	**718087**
1.8m Access Platform	15.3	1.5	**718086**

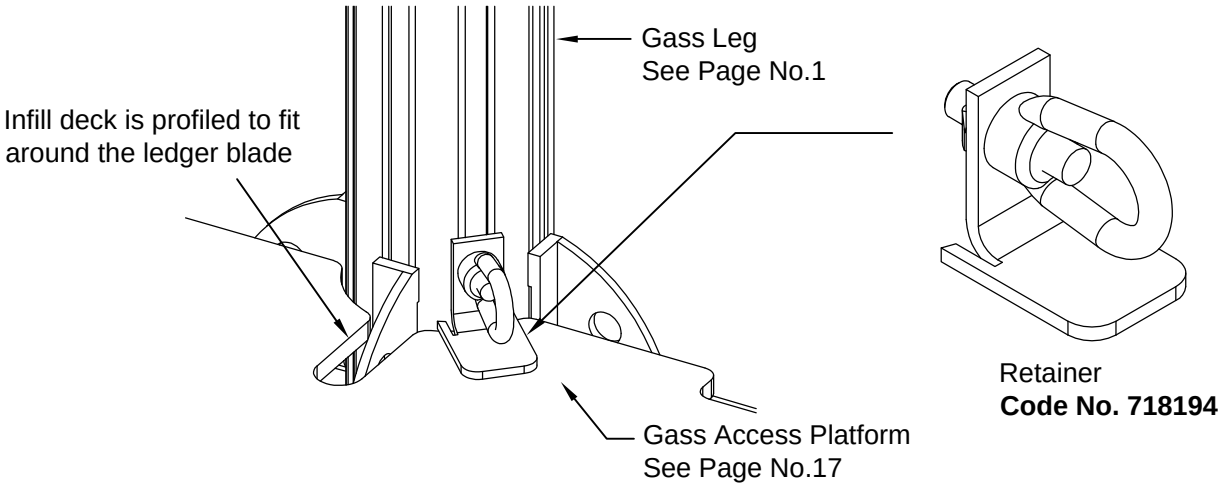
GASS_017Ca.dwg

GASS System

Component	Infill Deck and Retainer



Code No. **718193** Code No. **718192** Code No. **718191** Code No. **718190**



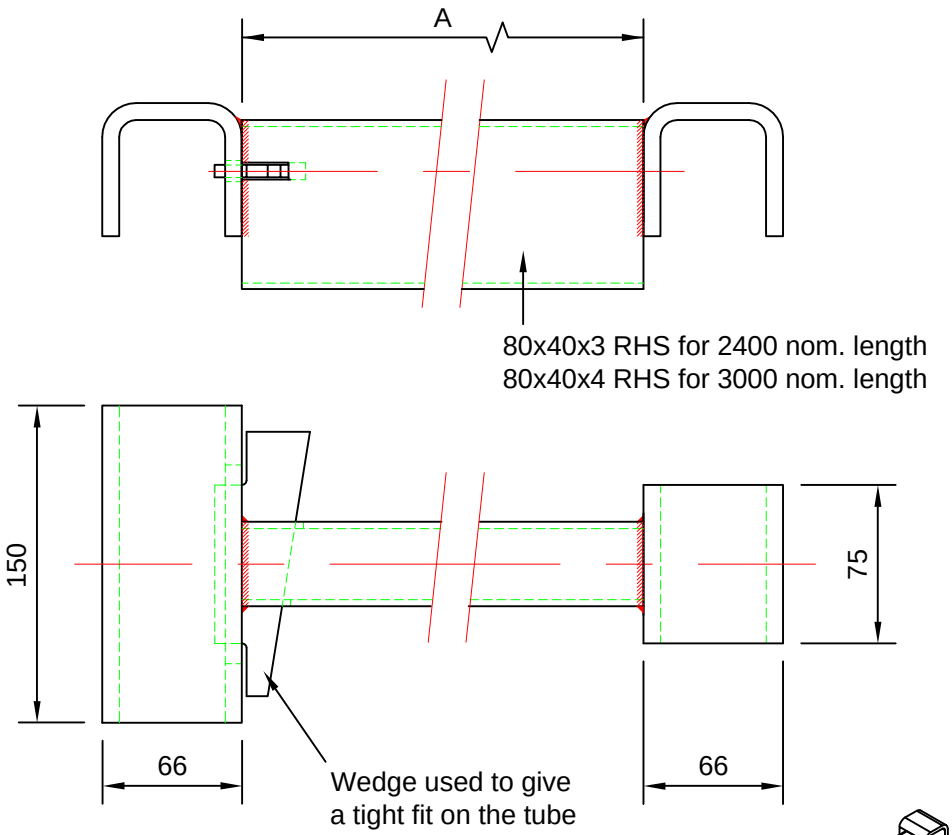
Retainer
Code No. 718194

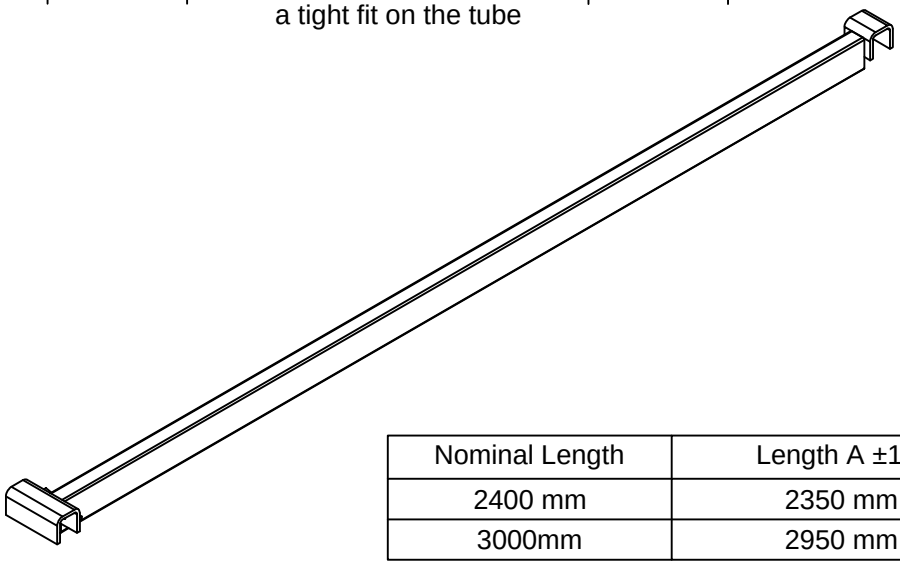
Specification/Properties:

Description	Weight (kg)	SWL (kN/m²)	Code No
Gass Infill Deck 1.2m	5.1	1.5	**718190**
Gass Infill Deck 1.8m	7.8	1.5	**718191**
Gass Infill Deck 2.4m	10.5	1.5	**718192**
Gass Infill Deck 3.0m	13.3	1.5	**718193**
Gass Infill Deck Retainer	0.32	1.5	**718194**

GASS_017Da.dwg

Gass System	
Component	**Intermediate Transoms**





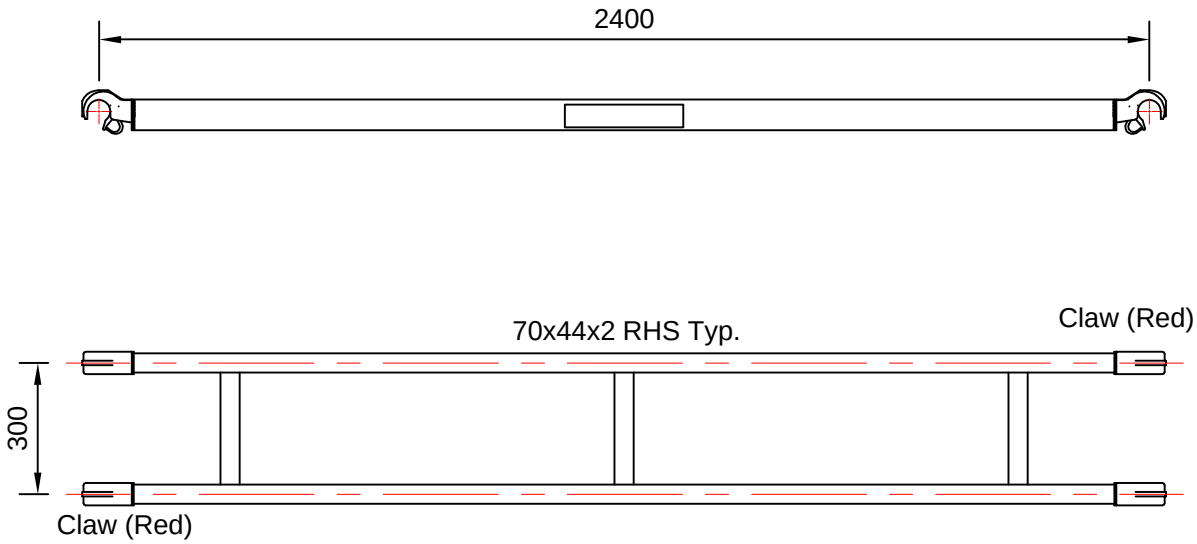
Nominal Length	Length A ±1.0
2400 mm	2350 mm
3000mm	2950 mm

Specification/Properties:

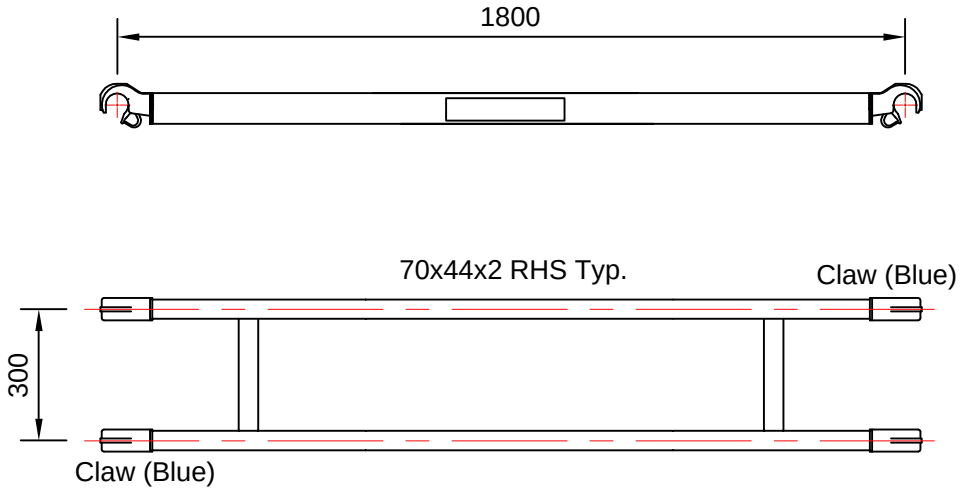
Description	Material	Finish	Weight (kg)	Code No
2400 Intermediate Transom	Steel	Galvanised	16	**718144**
3000 Intermediate Transom	Steel	Galvanised	24	**718145**

Gass 18e.dwg

Gass System	
Component	**Gass Transom Unit**



Gass Transom Unit 2.4 Metre



Gass Transom Unit 1.8 Metre

Specification/Properties:

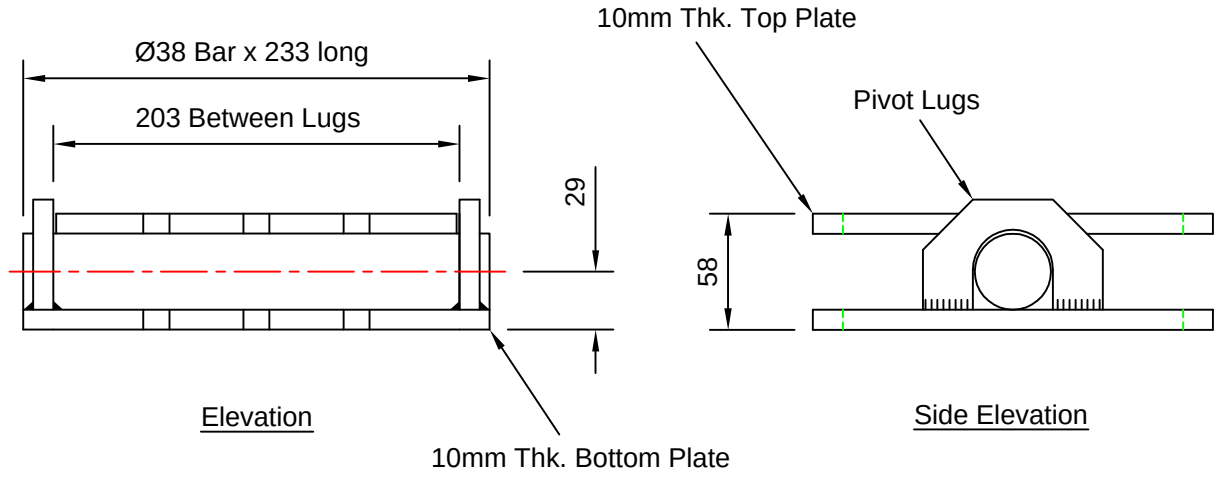
Description	Material	Weight (kg)	Code No
Gass Transom Unit 1.8 Metre	Aluminium	6.64	**717730**
Gass Transom Unit 2.4 Metre	Aluminium	8.37	**717731**

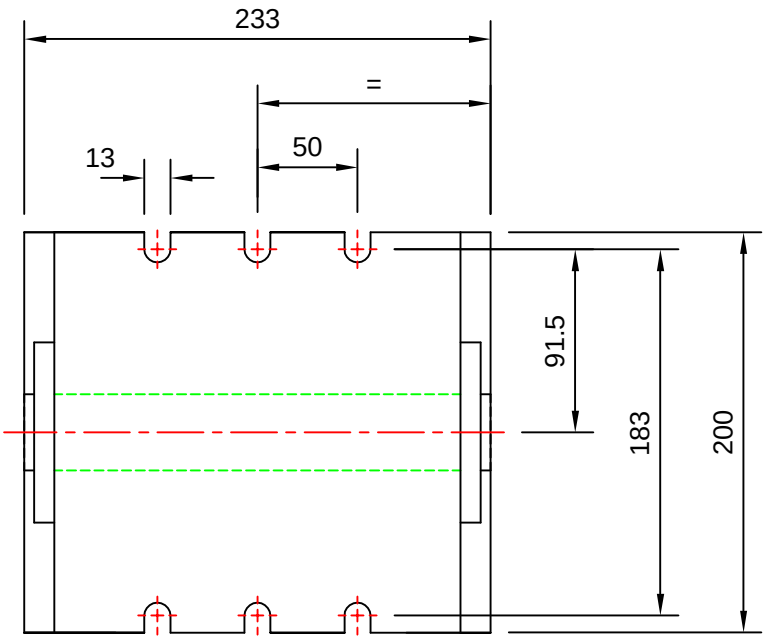
These data sheets show the extent of the Gass Product. Not all products are available for hire/sale in all countries. Check with your nearest SGB branch.

Unless otherwise stated, the data contained in this data sheet is expressed in terms of safe working loads

Gass 18-1a.dwg

Gass System	
Component	**Rocking Head / Base Plate - MKI**





Plan View

SWL = 140 kN

Specification/Properties:

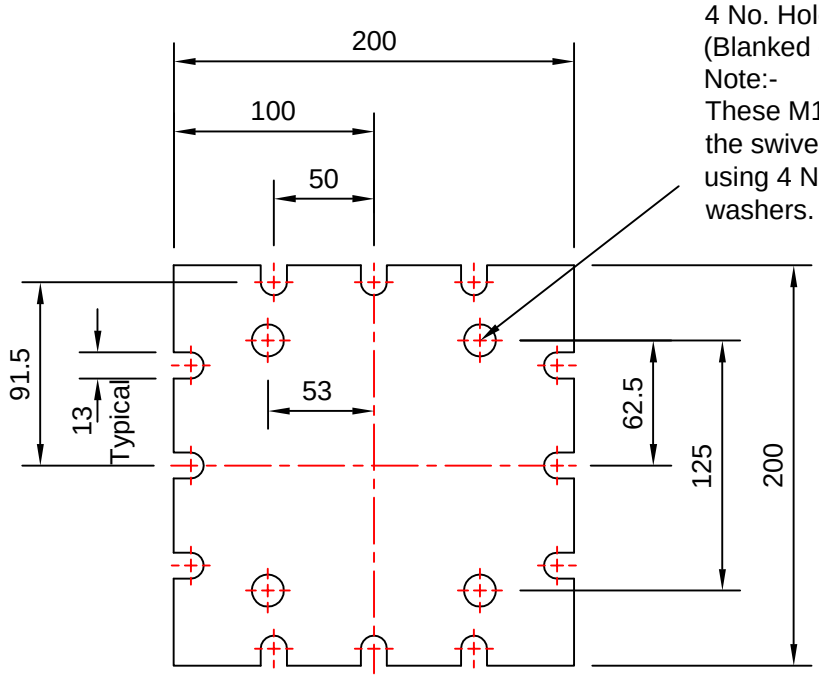
Description	Material	Finish	Weight (kg)	Code No
Rocking Head / Base Plate - MKI	Mild steel	Galvanized	8.25kg	**718091**

Guidance Notes:

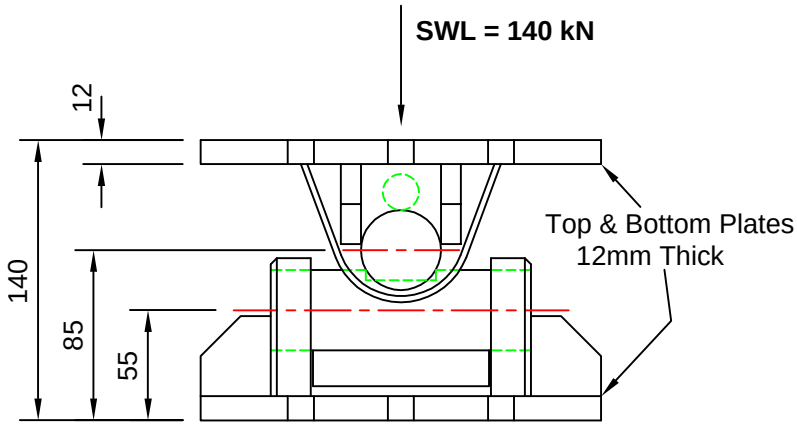
For applications refer to Page 113, typical assembly can be found on Page 27.

Gass System	
Component	**Universal Swivel Plate**

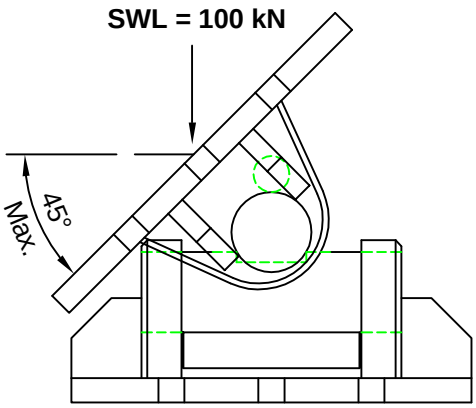
4 No. Holes drilled & tapped M16
(Blanked off with removable plastic plugs)
Note:-
These M16 holes are used when connecting the swivel plate to the end of MKII soldiers using 4 No. M16 x 35 Lg. Grade 8.8 bolts + washers.



Plan View on Top Plate



Front Elevation



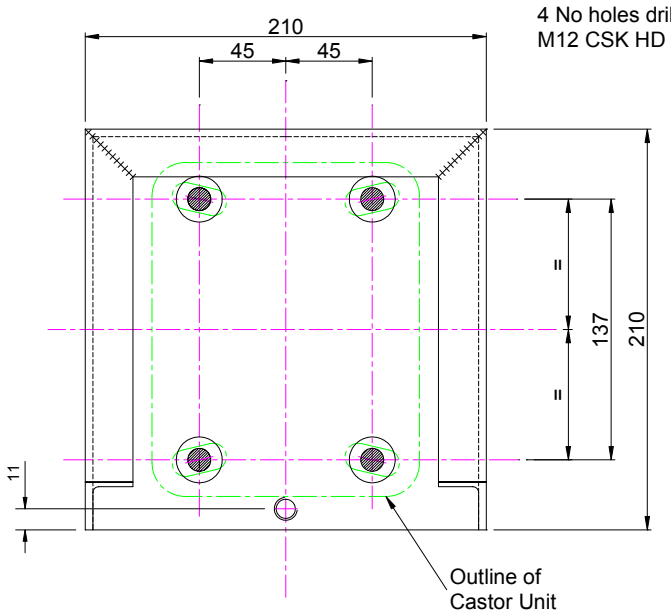
Elevation Showing Pivoting Head

Specification/Properties:

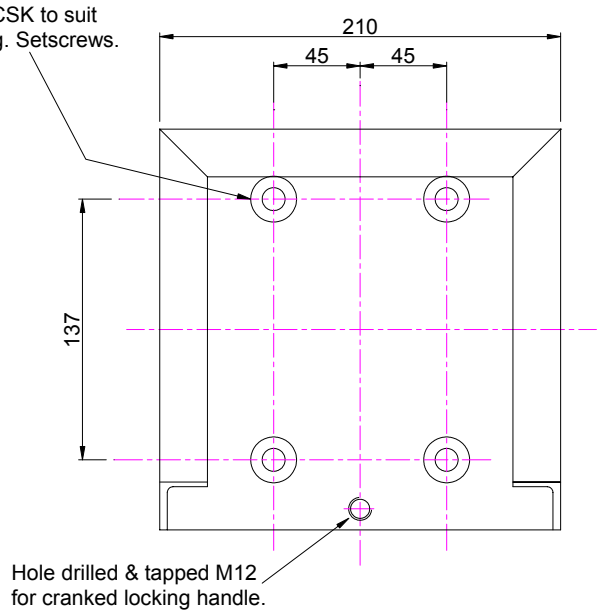
Description	Material	Finish	Weight (kg)	Code No
Universal Swivel Plate	Mild steel	Galvanised	12.25kg	**006357**

Guidance Notes:
For applications refer to Page 122, typical assembly can be found on Page 27.

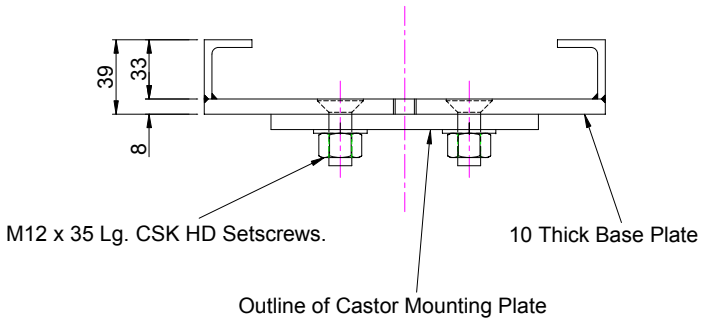
Castor Shoe



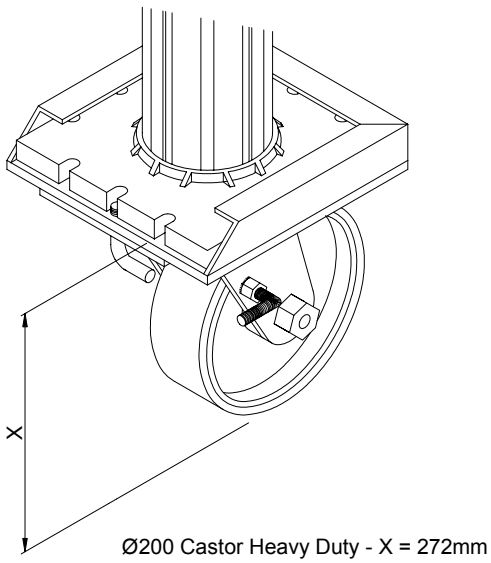
Plan Showing Castor Plate Under



Plan Showing Castor Plate Only



Elevation



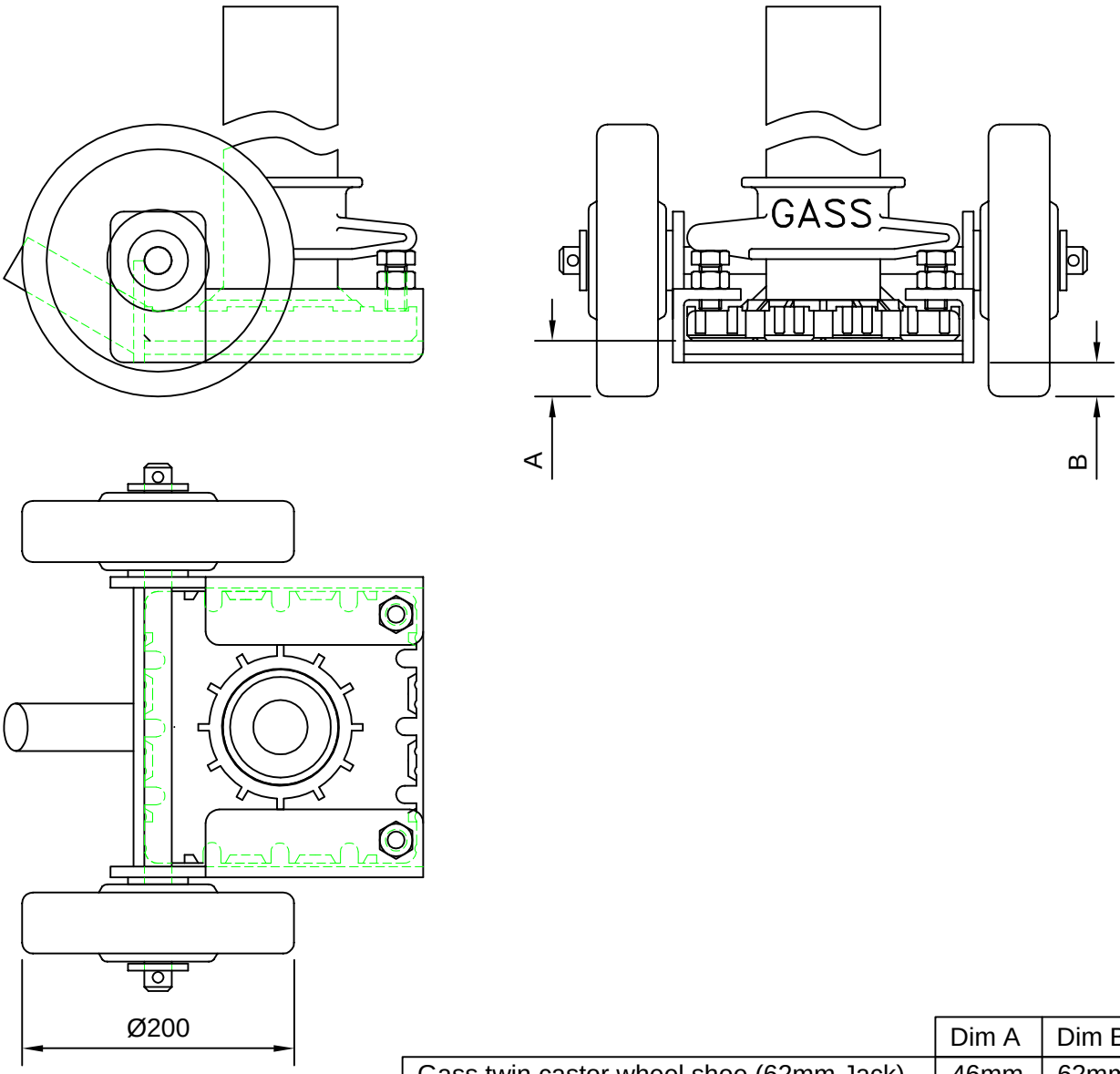
Isometric View of Assembly

Specification / Properties:

Castor Shoe adaptor plate	Weight: 4.4 kg		**Code No. 006346**
200 (8") Dia Castor			**Code No. 006239**
Castor Shoe with 200 (8") Dia Castor	Weight:-9.77 kg	SWL:- 950 kg per Castor	**Code no 718079**

For further details see Page: 116

Gass System	
Component	**Twin Castor Wheel Shoe**



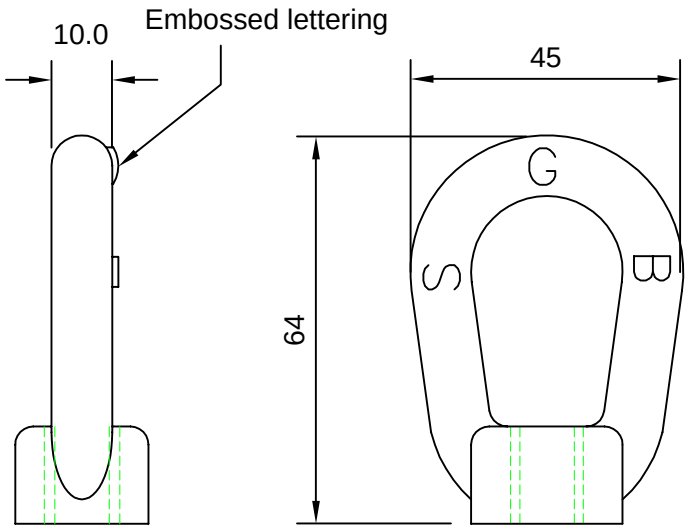
	Dim A	Dim B
Gass twin castor wheel shoe (62mm Jack)	46mm	62mm
Gass twin castor wheel shoe (41mm Jack)	25mm	41mm

Specification/Properties:

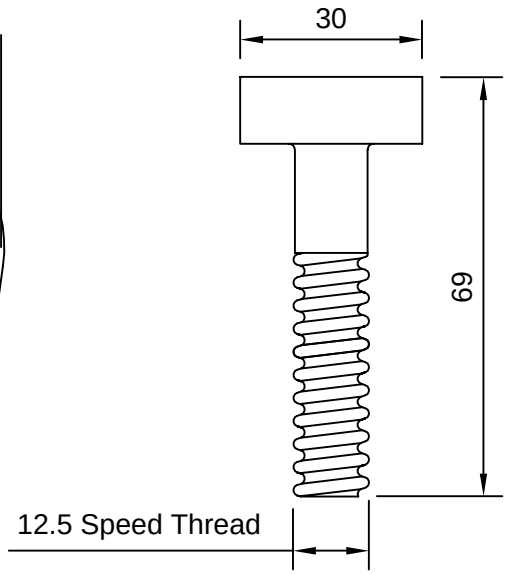
Description	Material	Weight (kg)	Code No
Gass twin castor wheel shoe (62mm Jack)	Mild Steel	-	**718105**
Gass twin castor wheel shoe (41mm Jack)	Mild Steel	-	**718106**

gass_022Ba.dwg

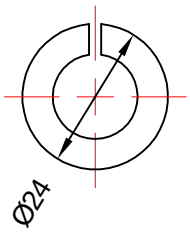
Gass System	
Component	**Ring Bolt Clamp for Gass Leg to Du-al T225 Beam**



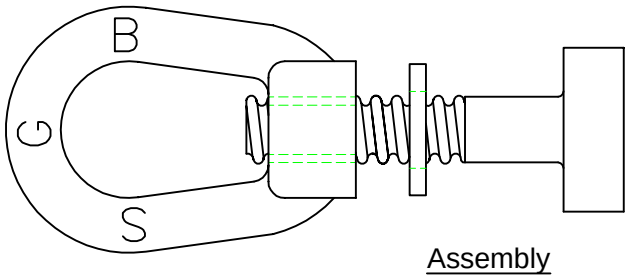
Ring Nut with Speed Thread



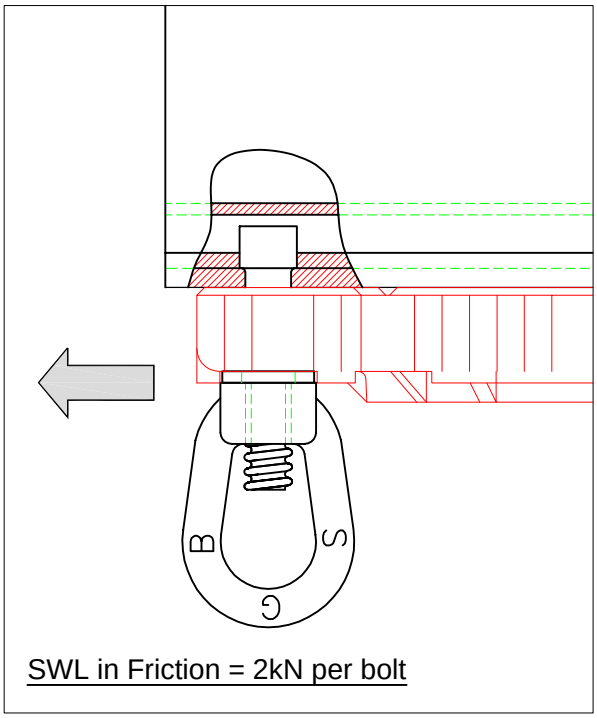
12.5 Speed Thread x 69 lg Slide Anchor Bolt



Washer



Assembly
Weight 0.25kg
Code No. 718904



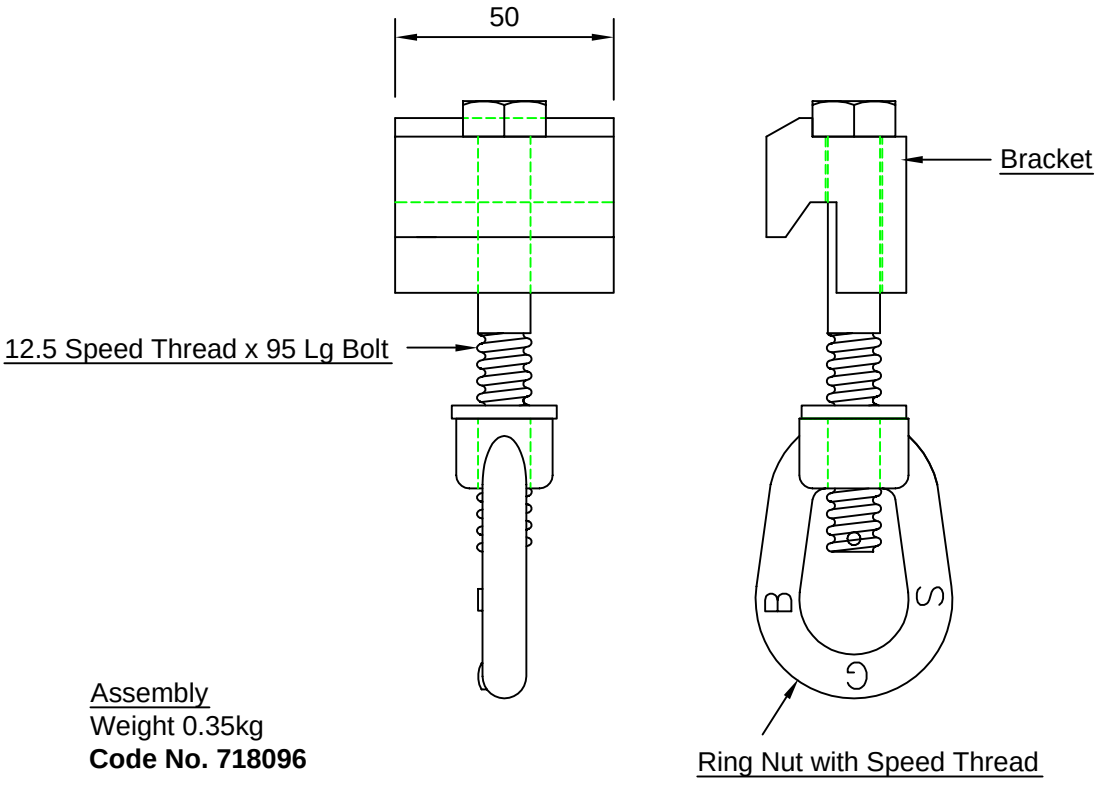
SWL in Friction = 2kN per bolt

Specification/Properties:

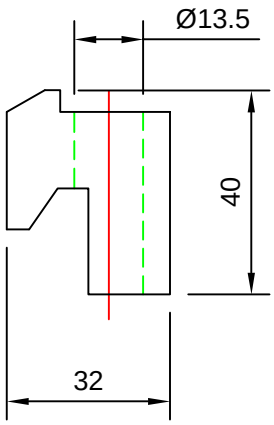
Description	Material	Finish	Weight (kg)	Code No
Ring Bolt Clamp for Gass Leg to Du-al T225 Beam			0.25 kg	**718904**
Consisting of:				
12.5 Speed Thread Slide Anchor Bolt	Steel Gr 8.8	Galvanised		
Ring Nut with Speed Thread	Steel EN5A	Galvanised		
Washer	Steel	Galvanised		

Gass_023.dwg

Ring Bolt Clamp for Gass Leg to MK II Soldier



Assembly
Weight 0.35kg
Code No. 718096



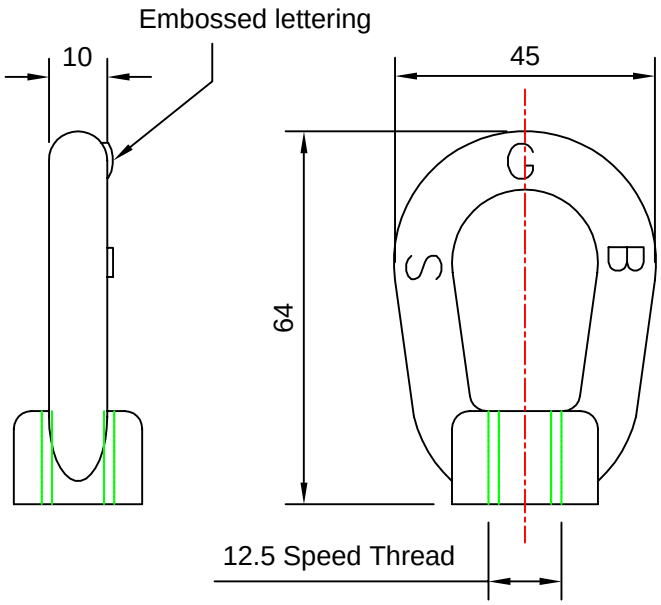
Bracket Details

Specification/Properties:

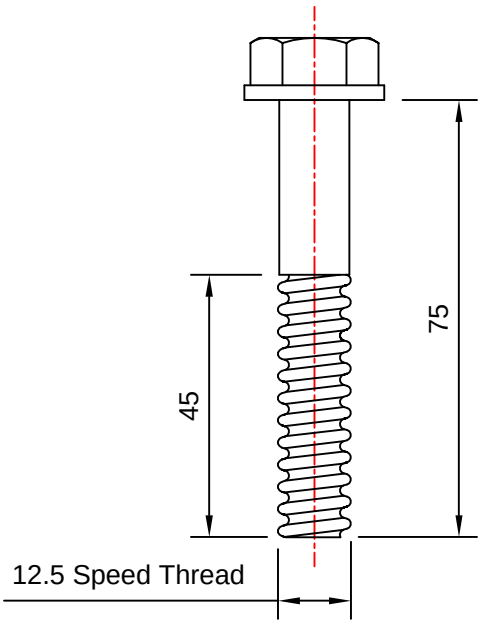
Description	Material	Finish	Weight	Code No
Ring Bolt Clamp for Gass Leg to MK II Soldier			0.35 kg	**718096**
Consisting of:				
12.5 Speed Thread x 95 Lg Bolt	Steel Gr 8.8	Galvanised	0.10 kg	
Ring Nut with Speed Thread	Steel EN5A	Galvanised	0.13 kg	
Bracket	Aluminium Alloy		0.12 kg	

Gass_024d.dwg

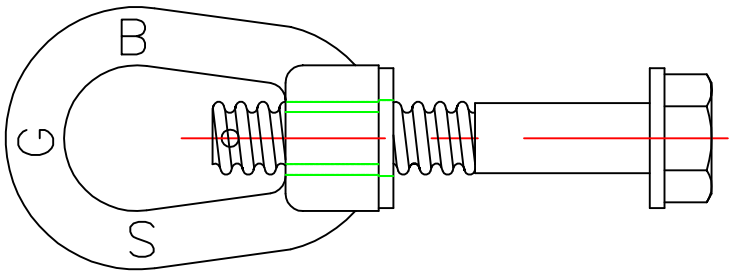
Ring Bolt Clamp for Gass Leg to Gass Leg



Ring Nut with Speed Thread



12.5 Speed Thread Flanged Bolt



Assembly
Weight 0.23kg
Code No. 718901

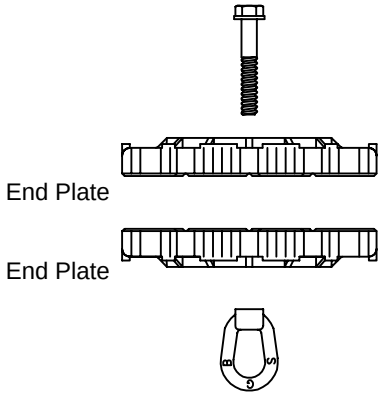
Specification/Properties:

Description	Material	Finish	Weight	Code No
Ring Bolt Clamp for Gass Leg to Gass Leg			0.23 kg	**718901**
Consisting of:				
12.5 Speed Thread Flanged Bolt	Steel Gr 8.8	Galvanised	0.10 kg	
Ring Nut with Speed Thread	Steel EN5A	Galvanised	0.13 kg	

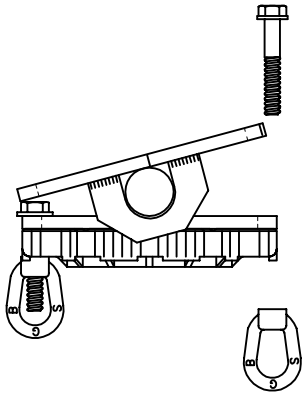
Gass_026.dwg

Gass System

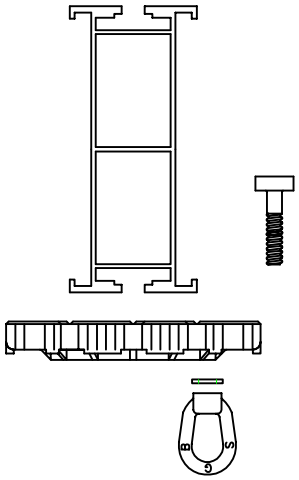
Component — Bolt Assembly Schedule



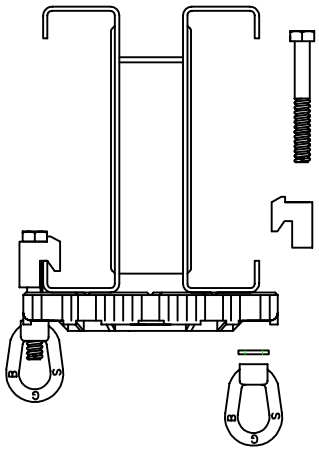
Fixing for Gass Leg to Gass Leg **Code No. 718901**
See page 26 for details



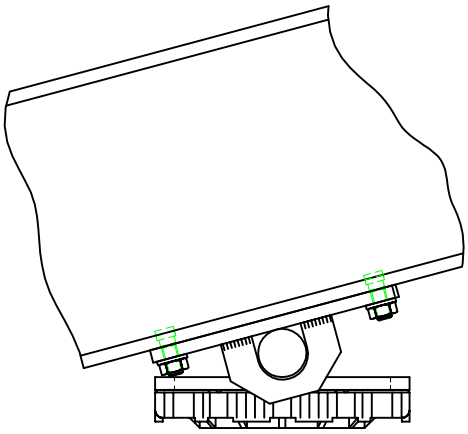
Fixing for Gass Leg to Rocking Head / Base plate
Code No. 718901
See page 26 for details



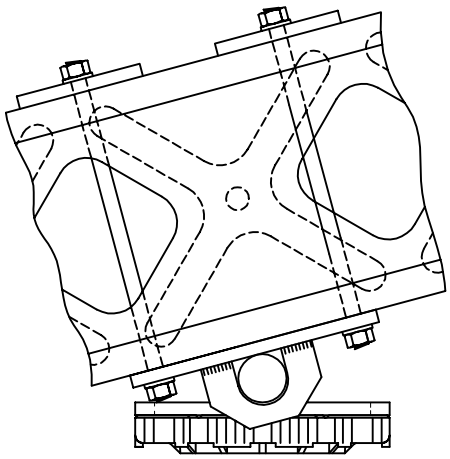
Fixing for Gass Leg to Du-al T225 Beam **Code No. 718904**
See page 23 for details



Fixing for Gass Leg to MKII Soldier **Code No. 718096**
See page 24 for details



Fixing for Du-Al Beam to Rocking Head / Base plate
Assembly not coded
Components may not be readily available



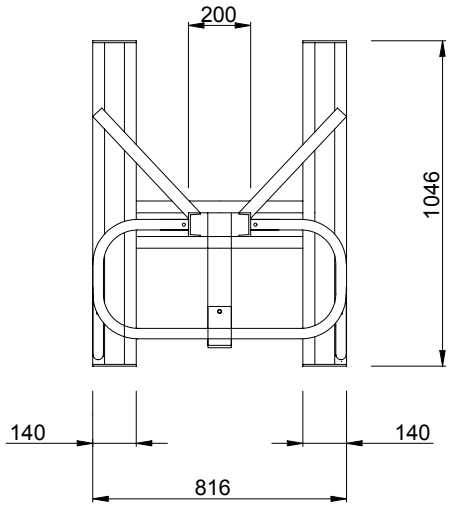
Fixing for MKII Soldier to Rocking Head / Base plate
Assembly not coded
Components may not be readily available

Lift / Lowering Trolley (Standard)

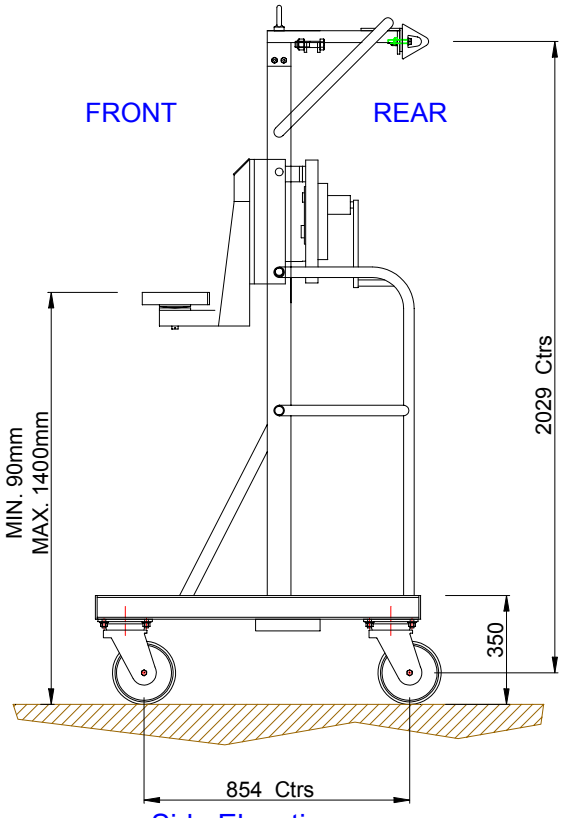
Bottom rear castors and rubber fender can be replaced and substitute castors put in place so that trolley can be tipped over onto its back. (Refer to Page: 029)

This allows for the trolley to be positioned with ease on the inside of a towers' perimeter.

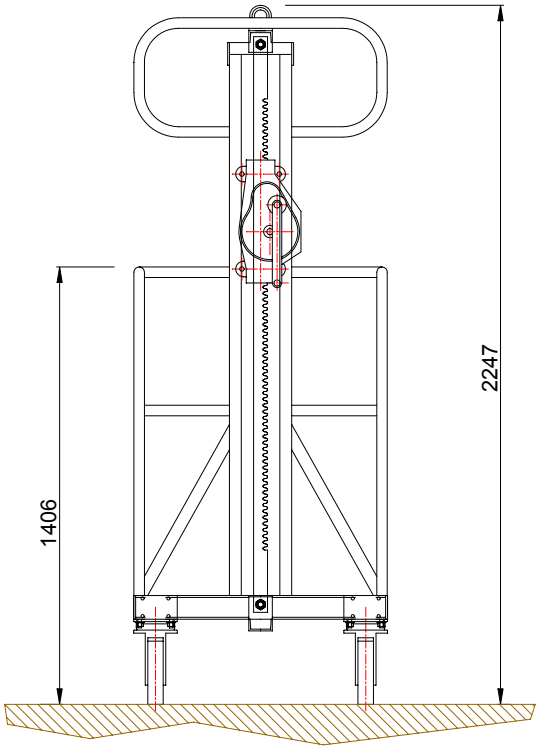
See datasheet 'GASS Lift Lowering Trolley – Spare Parts' (page 030) for replacement castors.



Plan



Side Elevation

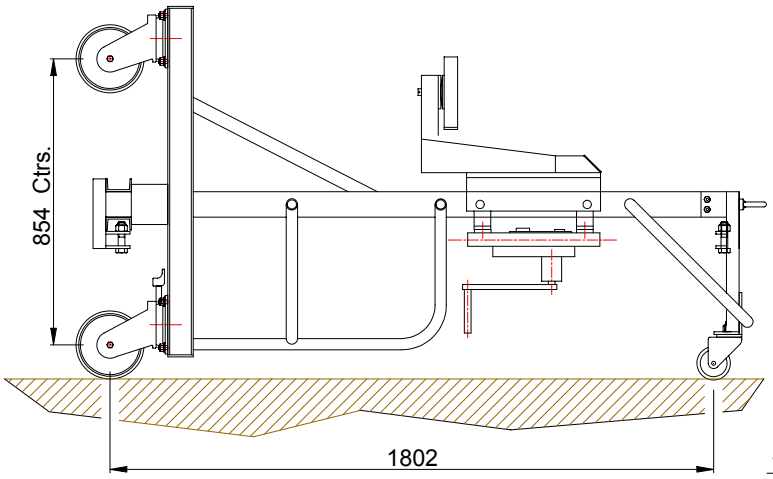


Rear Elevation

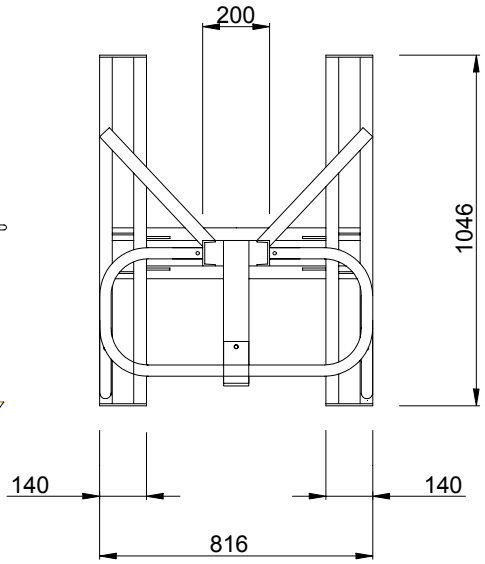
Specification/Properties:

Weight: 188Kg SWL: 1000Kg **Code No.: 718080**

Lift / Lowering Trolley (Low Level)

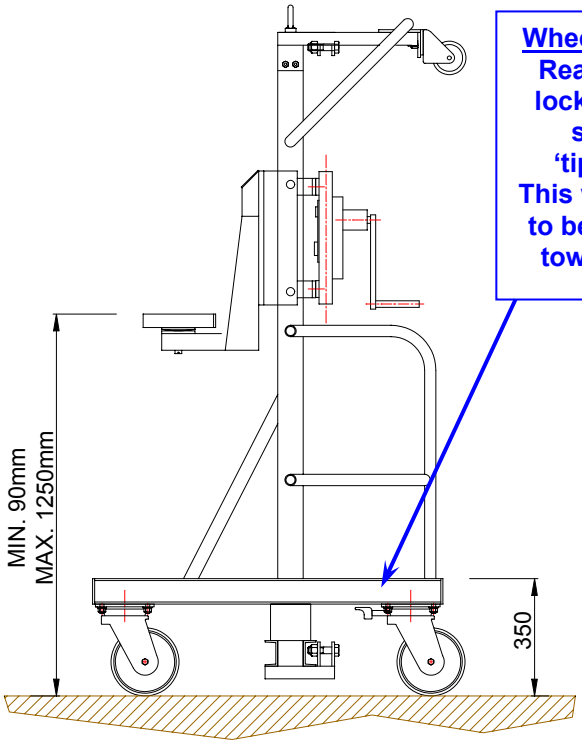


Side Elevation (Trolley laid on Back)



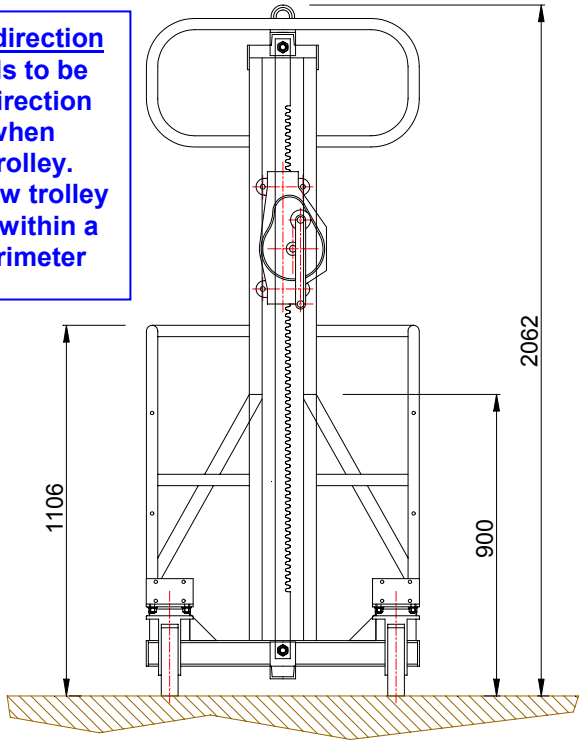
Plan View

TWO MEN REQUIRED TO TIP TROLLEY ON TO BACK AND TO RETURN TO UPRIGHT POSITION.
NB. CHOCK REQUIRED AT REAR WHEELS WHILST TIPPING



Wheel lock direction
Rear wheels to be locked in direction shown when 'tipping' trolley. This will allow trolley to be taken within a towers' perimeter

Side Elevation (Trolley Upright)

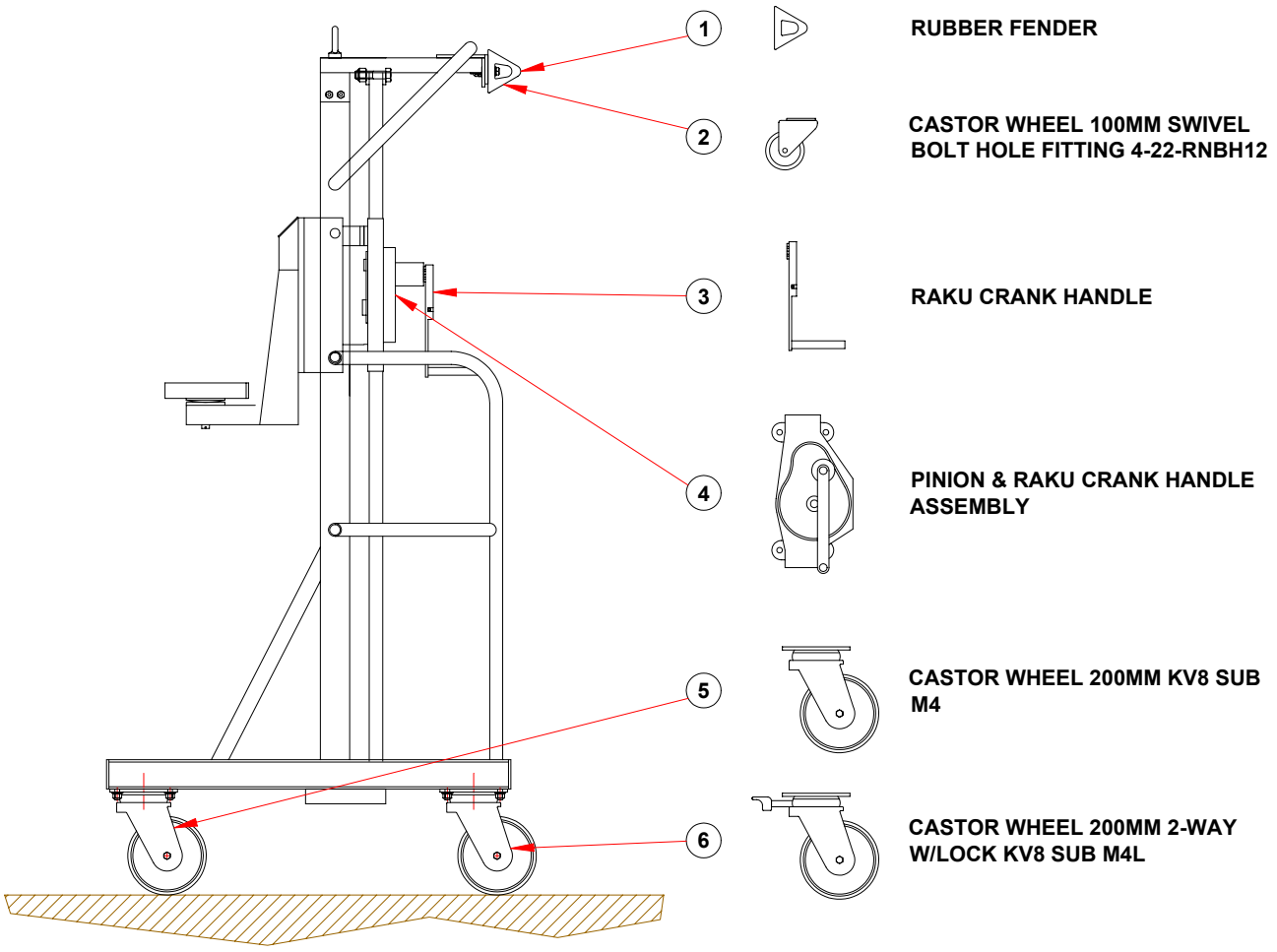


Rear Elevation

Specification/Properties:

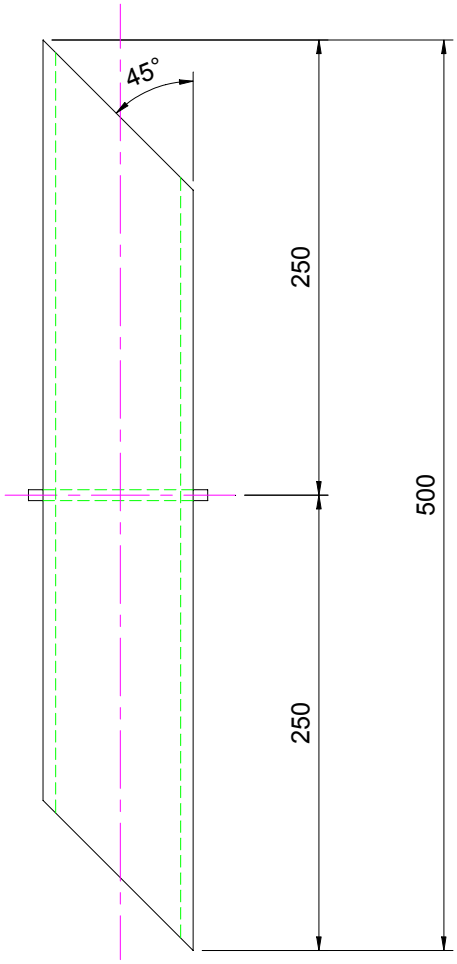
Weight: 188Kg SWL: 1000Kg **Code No.: 718090**

Lift / Lowering Trolley – Spare Parts

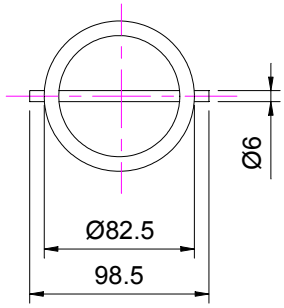


Item	Description	Comment	Qty	Mass (Kg)	Code
1	Rubber Fender	Used on modified trolley 718080	1	0.59	006392
2	Castor wheel 100mm Swivel Bolt Hole Fitting 4-22-RNBH12	To replace item 1 if trolley is required to tip on to back	1	0.93	006391
3	'Raku' Crank Handle	-	1	2	006393
4	Pinion & 'Raku' Crank Handle Assembly	-	1	~20	006394
5	Castor wheel 200mm KV8 SUB M4	Used on 718080 (All) & 718090 (REAR castors only)	1	8	006239
6	Castor wheel 200mm 2-way W/Lock KV8 SUB M4L	Fitted on 718090 (REAR castors only). Can be fitted on 718080 (to replace item 5, REAR castors only if trolley is required to tip on to back)	1	8.25	006390

Leg Jointing Spigot



Elevation

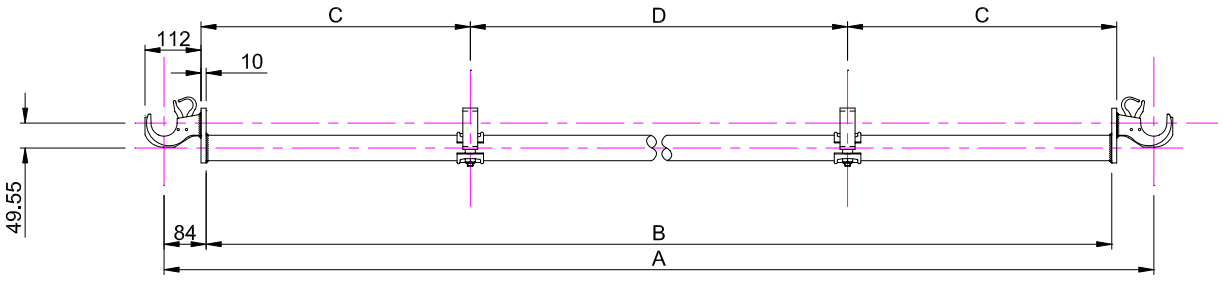


Plan View

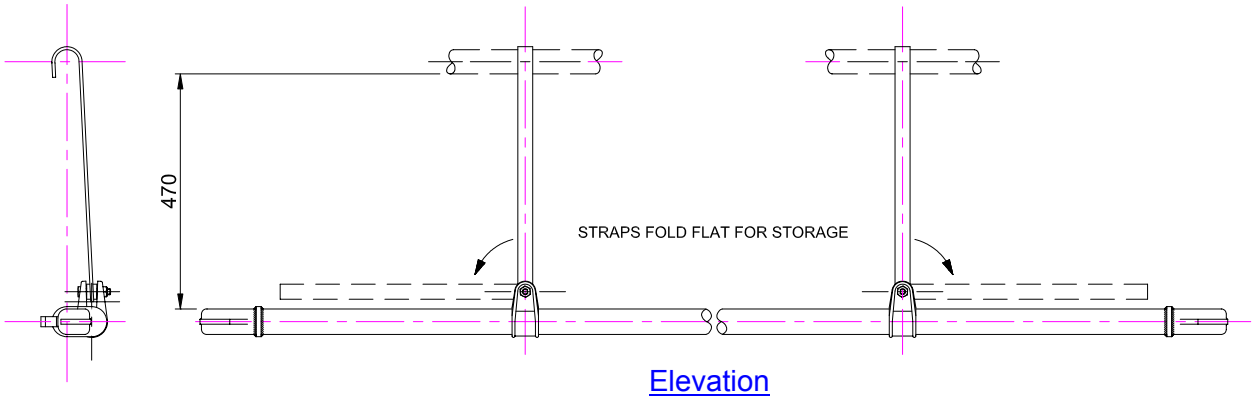
Specification / Properties

Spigot:- Material: Aluminum Alloy Weight: 2.06 kg **Code No: 006356**

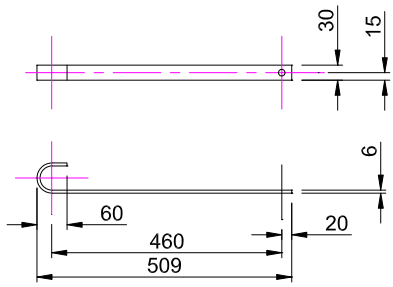
Intermediate Guard Rail



Plan View



Elevation



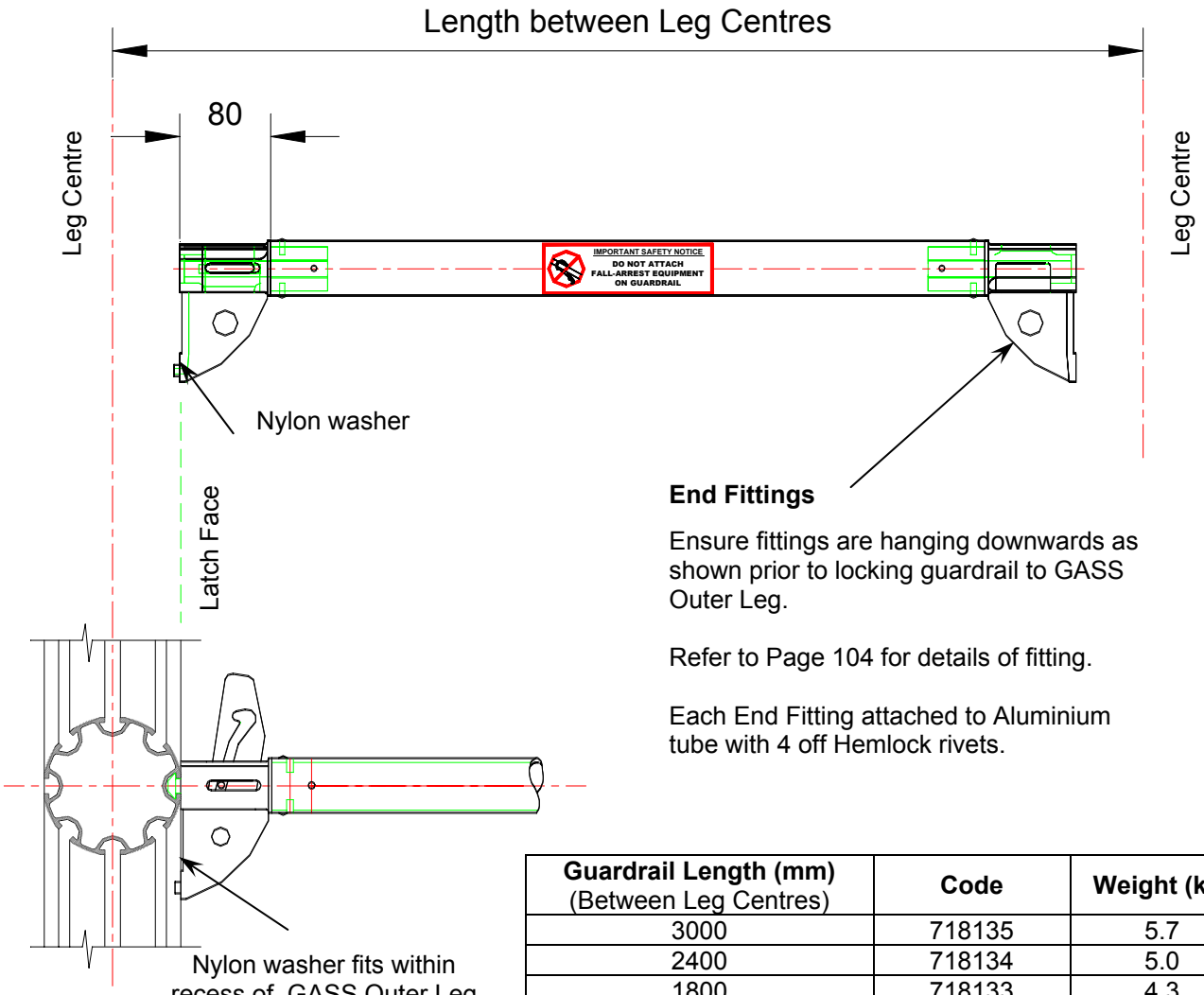
Details of Straps

Note:-

For applications refer to Page: 127

To fit Ledger Frame Size	Dim A	Dim B	Dim C	Dim D	Weight	Code no.
3.0m	2582	2414	707	1000	4.78 kg	**718124**
2.4m	1982	1814	538	754	4.20 kg	**718123**
1.8m	1382	1214	357	500	3.62 kg	**718122**
1.2m	782	614	180	254	3.10 kg	**718121**

Single Guard Rail



End Fittings

Ensure fittings are hanging downwards as shown prior to locking guardrail to GASS Outer Leg.

Refer to Page 104 for details of fitting.

Each End Fitting attached to Aluminium tube with 4 off Hemlock rivets.

Guardrail Length (mm) (Between Leg Centres)	**Code**	**Weight (kg)**
3000	718135	5.7
2400	718134	5.0
1800	718133	4.3
1500	718132	3.9
1200	718131	3.6

Specification/Properties:

Tube: Material – ∅48.3mm x 3mm Aluminium Alloy. **End Fittings**: Material – Spheroidal Graphite Cast Iron

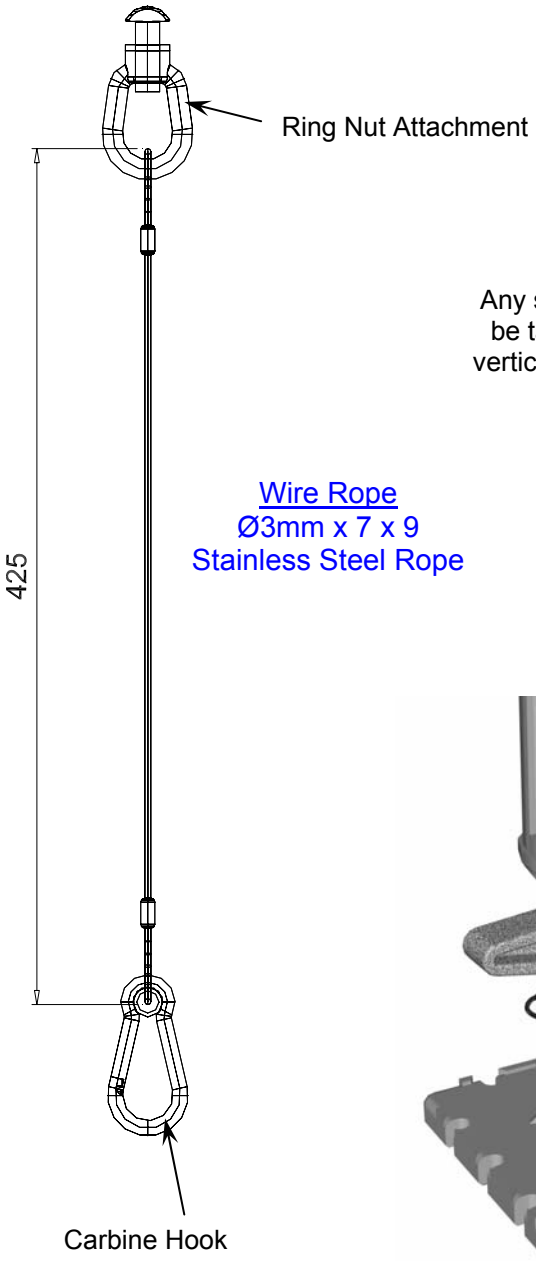
Standards Compliance: BS1139: Part 5: 1990/ **HD1000**: 1988; **prEN 12811**:2001

Guidance Note:

ONLY to be used as a guardrail (Intermediate or Upper guardrail)
Ensure guardrails (handrail & Intermediate guardrail) are **set to correct height** relative to access platform according to above Standards, i.e. Upper guardrail set to 1000mm ±50mm above platform with no gap between guardrails/toeboard/platform to exceed 470mm.

UNDER NO CIRCUMSTANCES ARE GUARDRAILS TO BE USED FOR FALL/ARREST EQUIPMENT ATTACHMENT

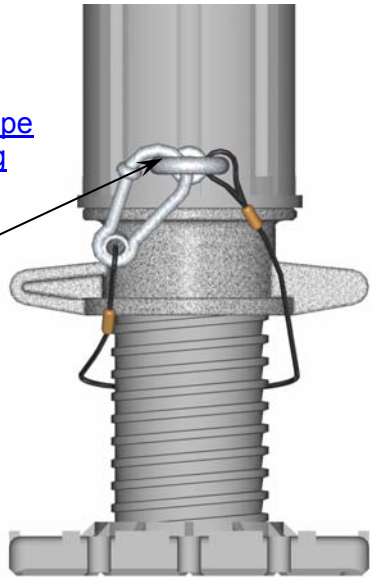
Leg Safety Wire Strop

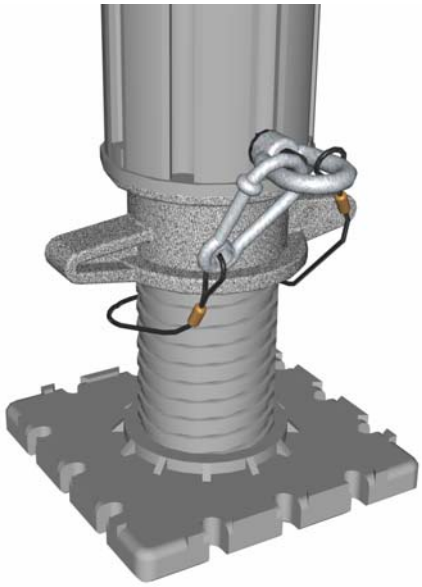


Wire Rope
Ø3mm x 7 x 9
Stainless Steel Rope

Front View
Showing Wire Rope
Attached to Leg

Any slack in wire rope can be taken up by adjusting vertical position of Ring Nut on main leg.





Isometric View
Showing Wire Rope
Attached to Leg

ENSURE WIRE STROP FITTED AROUND INNER LEG & UNDER NUT (IN PARTICULAR UNDER BOTH NUT HANDLES)

Specification / Properties

Safety Wire Strop Assembly:- Weight:- 256g **Code no:- 718908**

Gass	
Component	**Leg Safety Latch**

Leg Safety Latch with ring bolt Installation

1. Ensure the head of the T Bolt is in the vertical position (See Fig. 1.)
2. Follow stages 2 to 4 as per the installation instructions of the Wedge lock version shown below.
3. Turn Gass ring nut Clockwise and tighten,ensuring the head of the T Bolt has been turned 90° to horizontal by checking the postion of the slot on the end of the bolt.

To remove undo the ring nut and withdraw Safety Latch.

Leg Safety Latch with Ring Bolt
Current as of March 2008

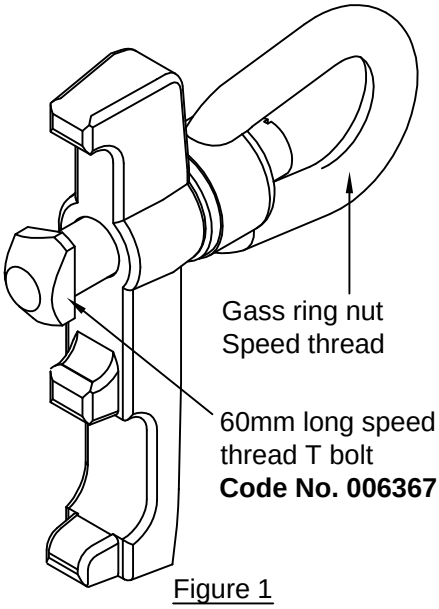


Figure 1

Leg Safety Latch - Wedge Lock
Superceded by Leg Safety Latch with Ring Bolt as of March 2008

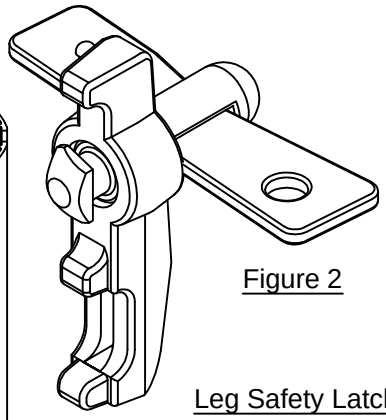


Figure 2

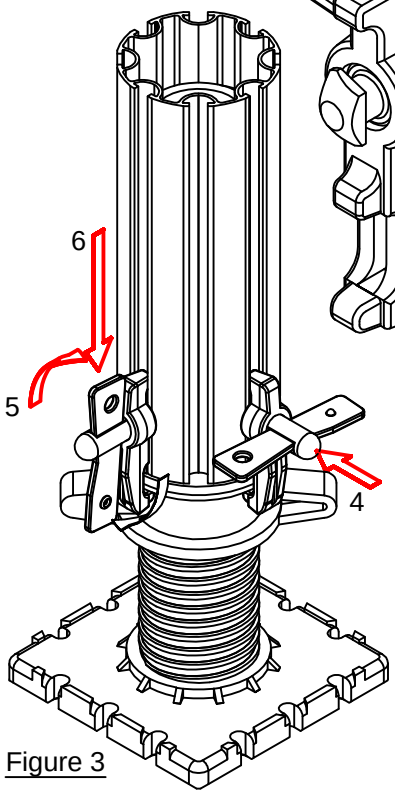


Figure 3

Leg Safety Latch - Wedge Lock Installation

1. Ensure wedge is horizontal and central (See Fig 2)
2. Offer Safety Latch into recieving profile of Gass outer leg at the legs end plate.
3. Ensure Main latch is located about both the underside of the nut's flange and the topside of the outer leg's end plate.
4. Push T bolt towards leg as shown by arrow (4) in Fig.3.
5. Rotate wedge 90° **Clockwise**, as shown by arrow (5).
6. Strike wedge downwards with suitable hammer, as shown by arrow (6).

To remove strike the wedge upwards, turn 90° **Anti-Clockwise** and withdraw Safety Latch.

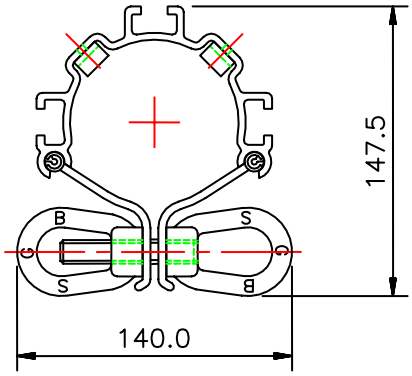
Specification/Properties:

Description	Material	Finish	Weight (kg)	Code No
Gass Leg Safety Latch with Ring Bolt	Steel	Galvanised	0.44	**718907**

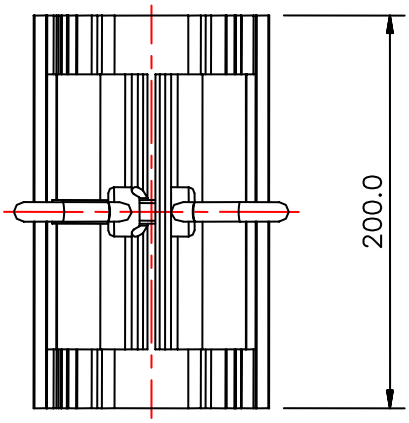
Gass_035d.dwg

Jack Guardrail Collar

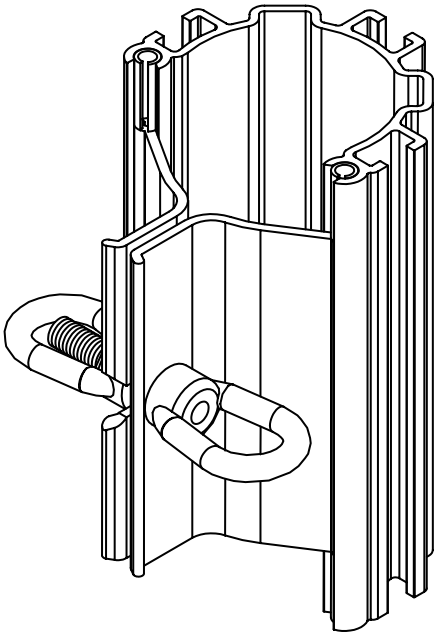
Plan view



Front Elevation



Pictorial view



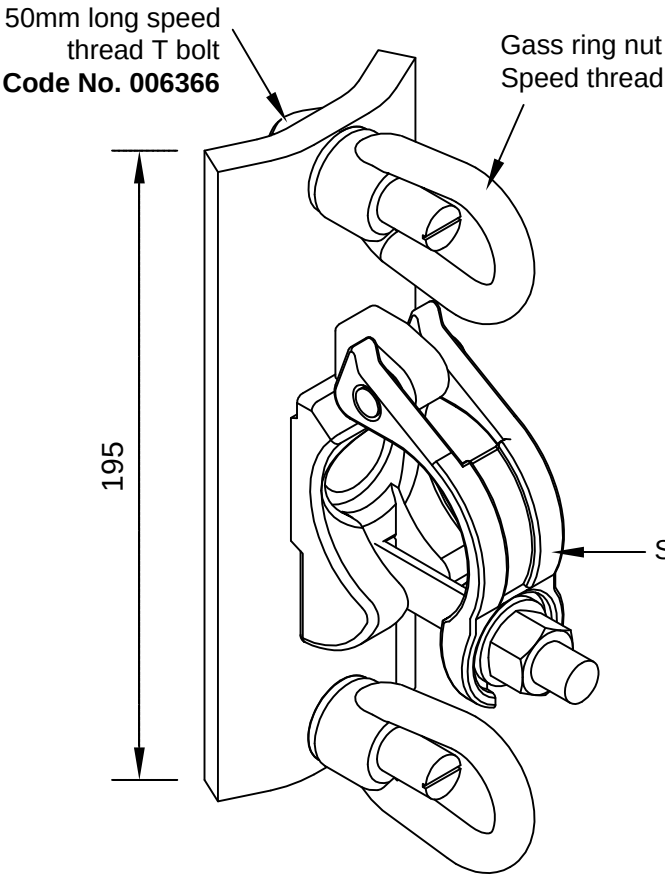
Specification/Properties:

Description	Material	Finish	Weight	Code No.
Jack Guardrail Collar	Aluminium Alloy	Anodised	1.3kg	**718042**

Guidance Notes

Refer to Page 134 for information on applications.

Gass	
Component	**Leg Bracing Coupler**



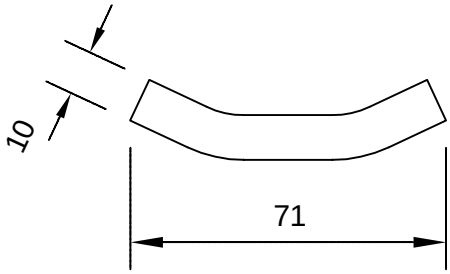
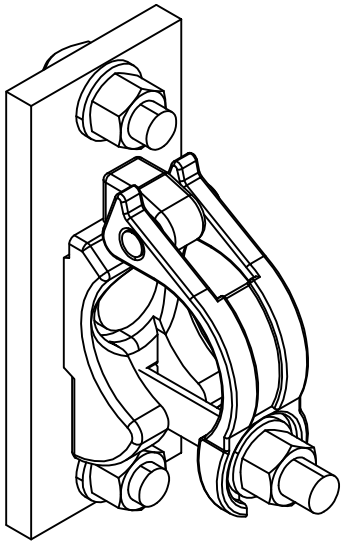


Plate Details

Gass Leg Bracing Coupler - New Version
(Note plate profile)

SWL = 6.25 kN
IN ALL DIRECTIONS



Gass Leg Bracing Coupler - Old Version
(Note flat plate profile)

Specification/Properties:

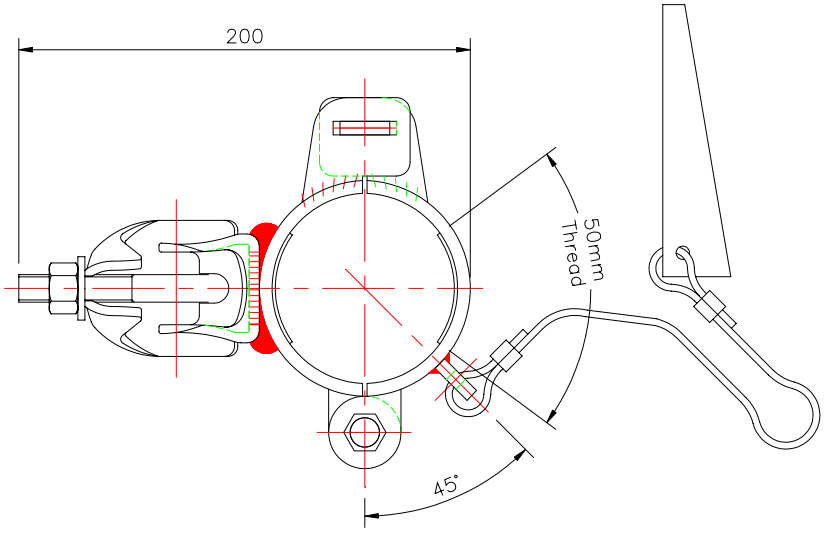
Description	Material	Finish	Weight (kg)	Code No
Leg Bracing Coupler	Steel	Zinc Plated	1.75	**718044**

Guidance Notes:
See page 137 for application details

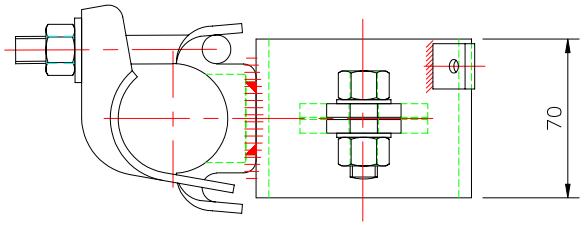
gass 37-1c.dwg

Jack Half Coupler Guardrail Collar-Steel Version

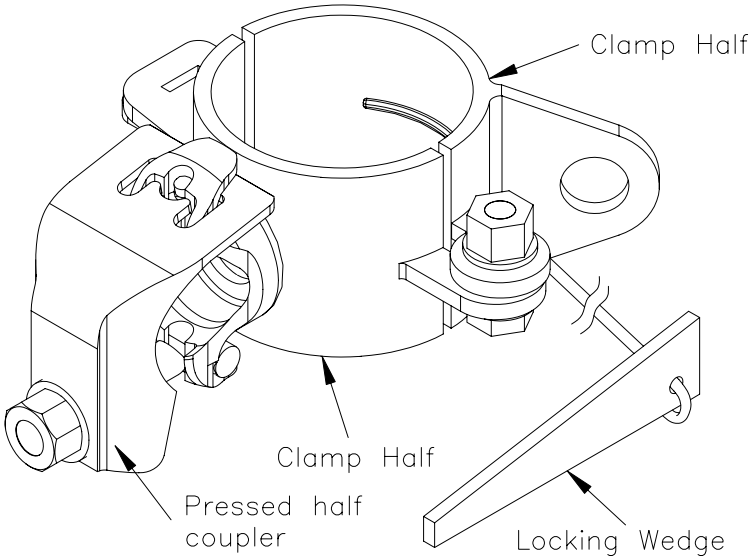
Assembly Plan



Assembly Side View
(Wedge Not Shown)



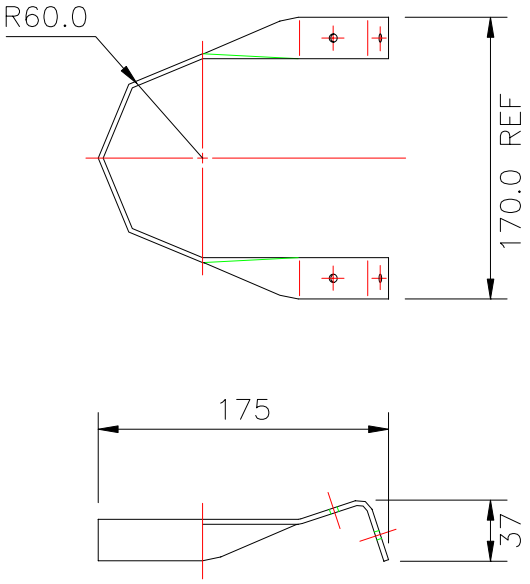
Assembly
Pictorial View

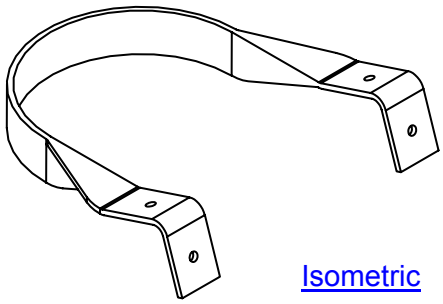


Specification/Properties:	**Material**	**Finish**	**Weight**	**Code No.**
Jack Half Coupler Guardrail Collar-Steel Version.	Steel	Zinc Plated	1.8 Kg	**718043**

Guidance Notes

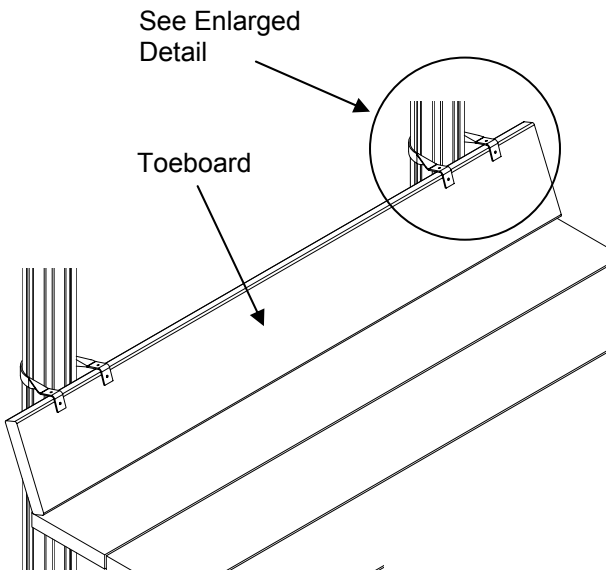
Toe Board Clip



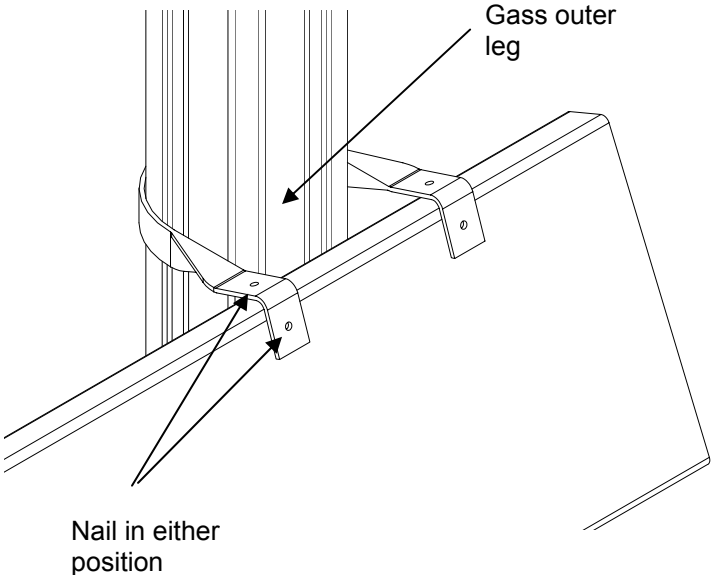


Isometric

Fitting Instructions: Refer to diagram below
Place loose Toeboard clip around the Gass leg and secure the positioned Toeboard by nailing through the holes provided.



Pictorial view showing a Toeboard secured by two clips



Enlarged Detail Showing Nailing positions

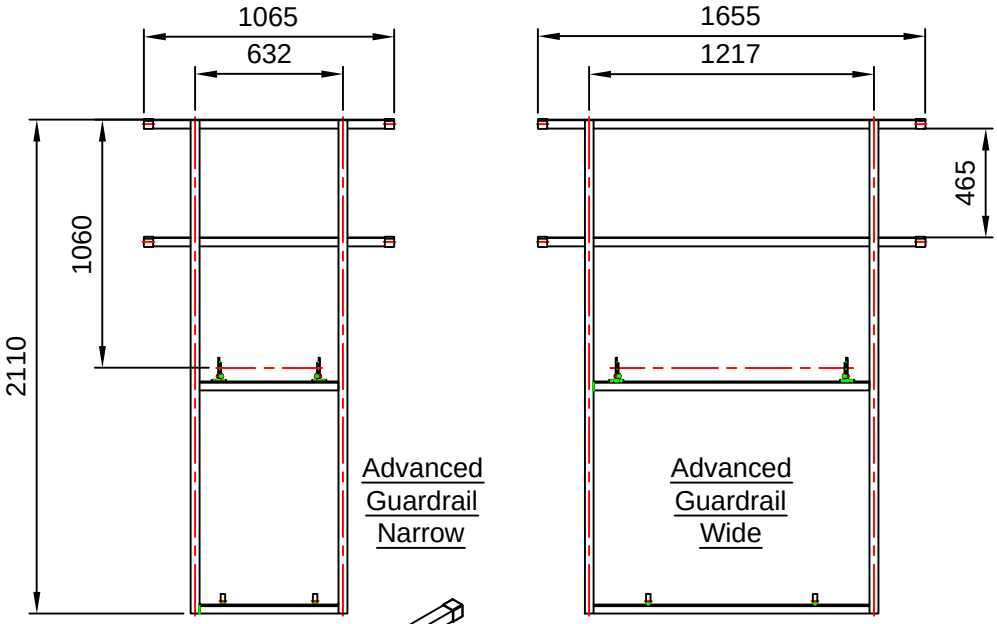
Specification/Properties:

Description	Material	Finish	Weight	Code No.
Gass Toeboard Clip	Mild Steel	Zinc Plated	0.28 kg	718185

Guidance Notes

Gass System

Component: Advanced Guardrail



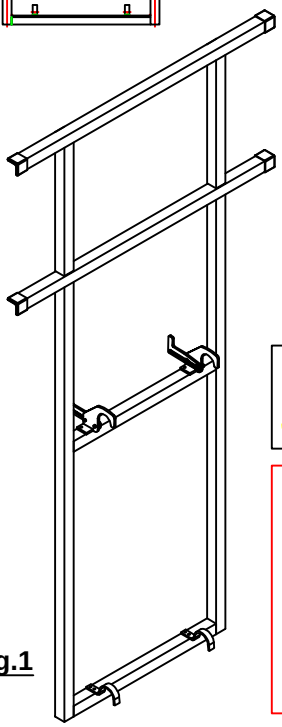


Fig.1

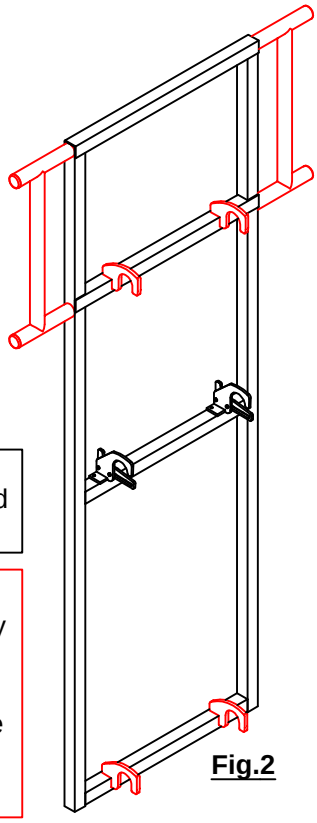


Fig.2

Important Note
Do NOT clip on to the Advanced guardrails with PPE

The design of Advanced Guardrail as shown in Fig.1 has been superceded by the tubular design shown on page 41/1.

The design in Fig.1 is refurbished to the design shown in Fig.2 when returned to stock.

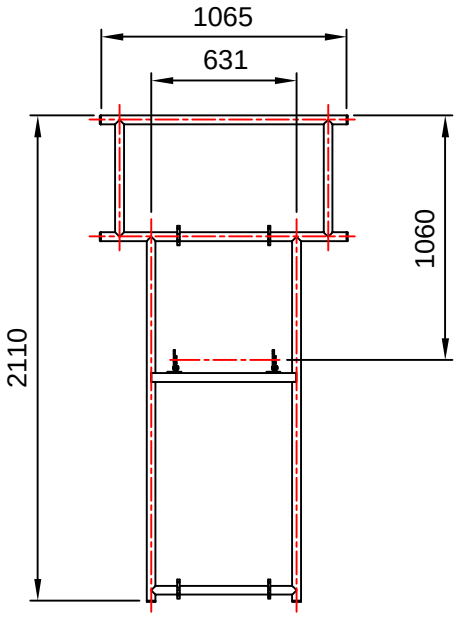
Specification/Properties:

Description	Material	Finish	Original Weight	Refurb Weight	Code No
GASS Advanced Guardrail: Narrow	Frame: Al. Alloy Claws/Wedge: Steel	Natural Zinc Plated	8.6kg	9.5kg	**718137**
GASS Advanced Guardrail: Wide	Frame: Al. Alloy Claws/Wedge: Steel	Natural Zinc Plated	10.6kg	11kg	**718138**

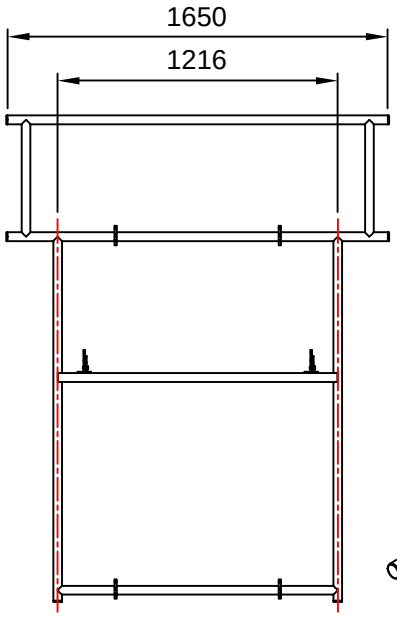
Guidance Notes:
For application of Advance Guardrails see page 135.
Compliant with all loading and dimensional requirements of EN 12181-1 & EN 13374

Gass System

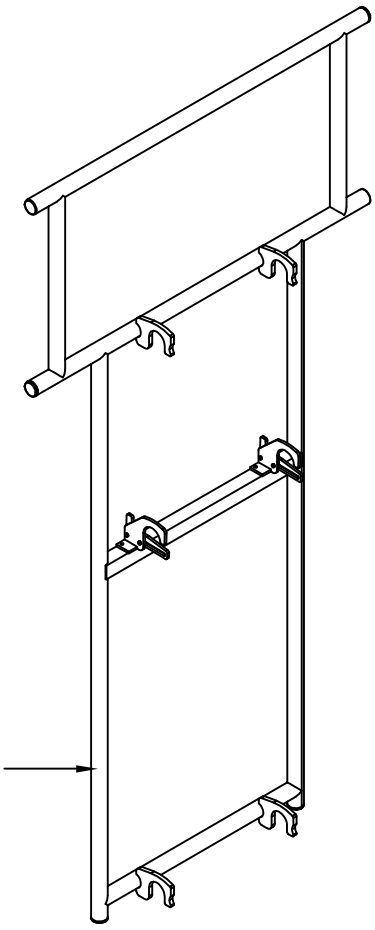
Component	Advanced Guardrail (Tubular Frame)



Advanced Guardrail Narrow



Advanced Guardrail Wide



Important Note
Do NOT clip on to the Advanced guardrails with PPE

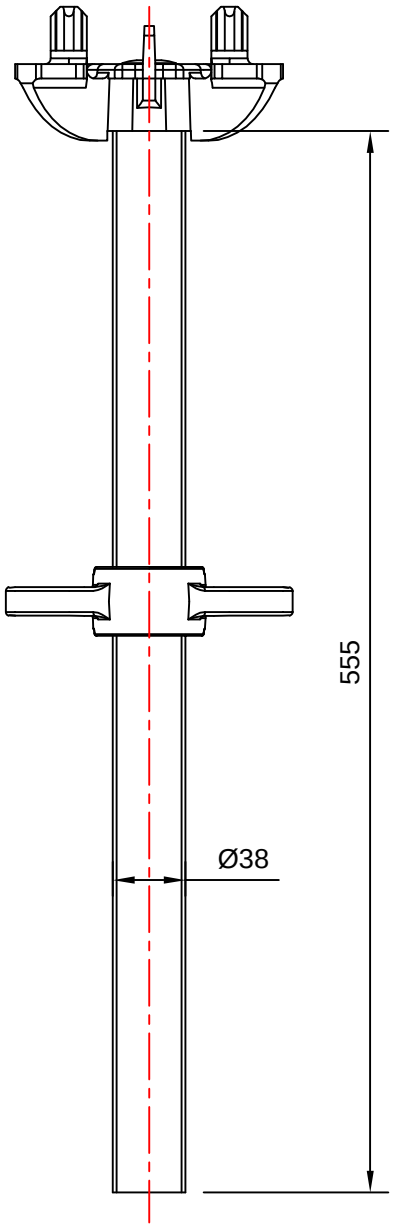
This design of the Advanced Guardrail supercedes the design shown on page 41

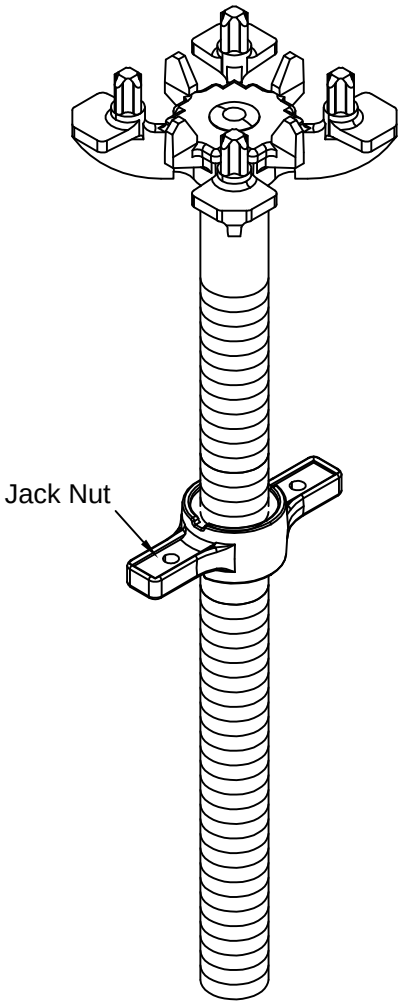
Specification/Properties:

Description	Material	Finish	Weight	Code No
GASS Advanced Guardrail: Narrow	Frame: Al. Alloy Claws/Wedge: Steel	Natural Zinc Plated	6.7kg	**718137**
GASS Advanced Guardrail: Wide	Frame: Al. Alloy Claws/Wedge: Steel	Natural Zinc Plated	8.5kg	**718138**

Guidance Notes:
For application of Advance Guardrails see page 135.
Compliant with all loading and dimensional requirements of EN 12181-1 & EN 13374

Gass	
Component	**Topec Jack for 1800 Gass Cantilever Frame**





Specification/Properties:

Description	Material	Finish	Weight (kg)	Code No
Topec Jack for 1800 Gass Cantilever Frame	Steel	Zinc Plated	5.9	**718920**

Guidance Notes:

See pages 138 and 139 for application.