Gass System

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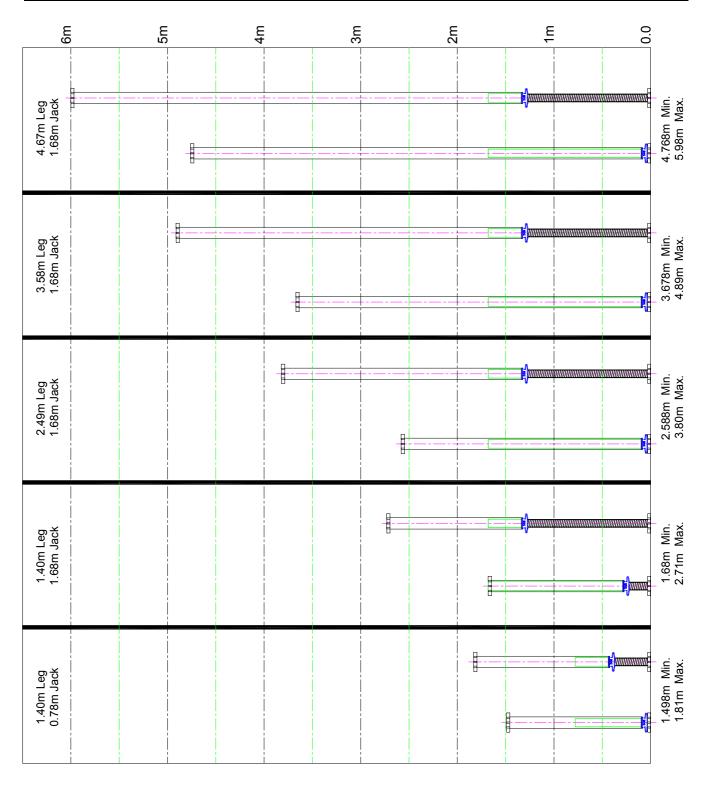
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Leg & Jack Make-Up - 1.5m to 6.0m



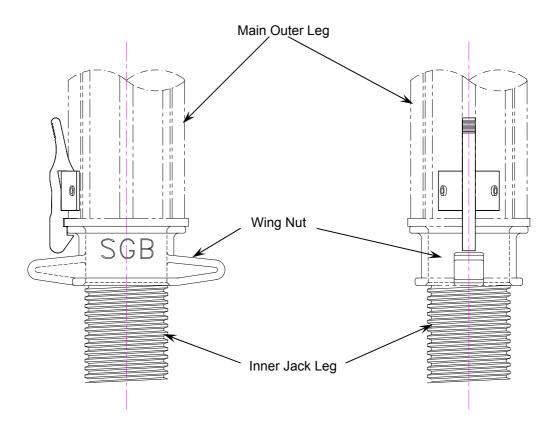


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Sprung Latch



Sprung Latch In Assembly

Guidance Notes

- 1) Sprung loaded latching device clips over flange on nut and leg end plate allowing nut to be rotated to extend or retract jack into leg but stop jack from disengaging when Gass falsework is crane handled.
- 2) For more details on inner Jack Leg & Nut see Page: 003
- 3) Max Load on Latch (Tension) = 625 kg.

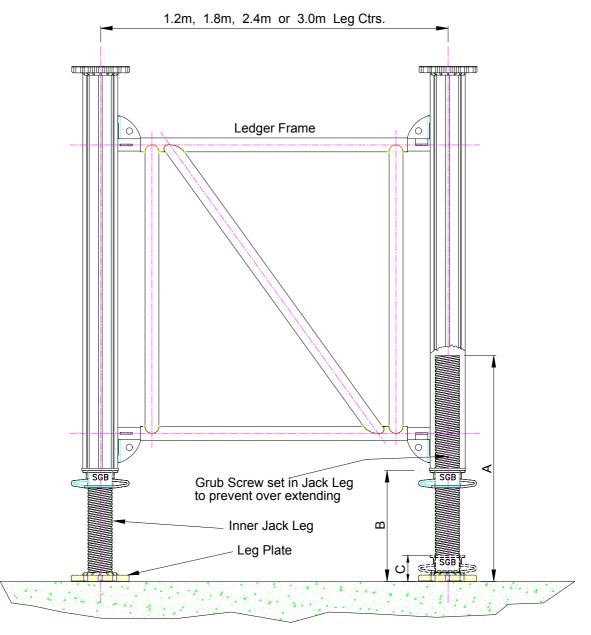


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Jack Leg Assembly



Part Cut-Away Elevation Showing Inner Jack Assembly

Specification / Properties:			
	Large	Small	
Inner Jack Leg Length (A)	1680mm	780mm	
Maximum Extension (B)	1330mm	430mm	
Minimum Extension (C)	98mm	98mm	



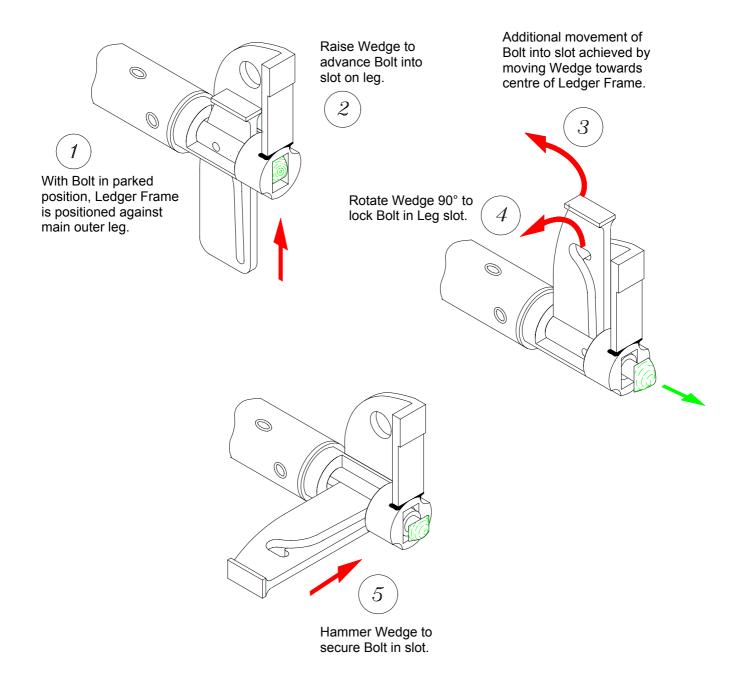
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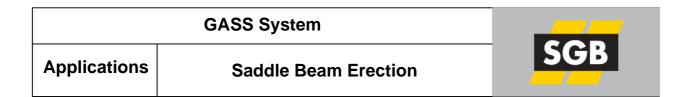
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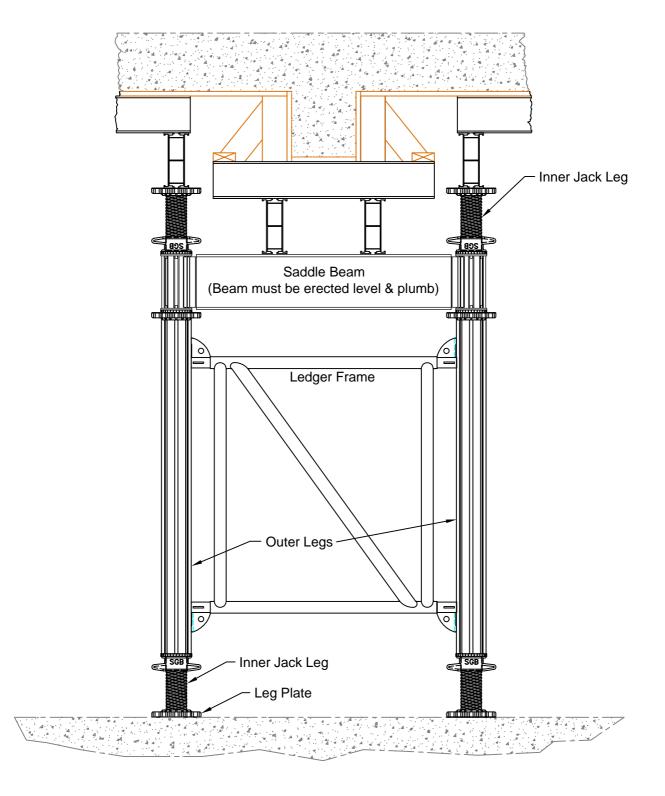
Ledger Frame End Fitting Operation



Guidance Notes:

The above drawing is of an upper fitting. A lower fitting is similar but with the flange on the underside of the fitting.





Elevation Showing Saddle Beam Structure

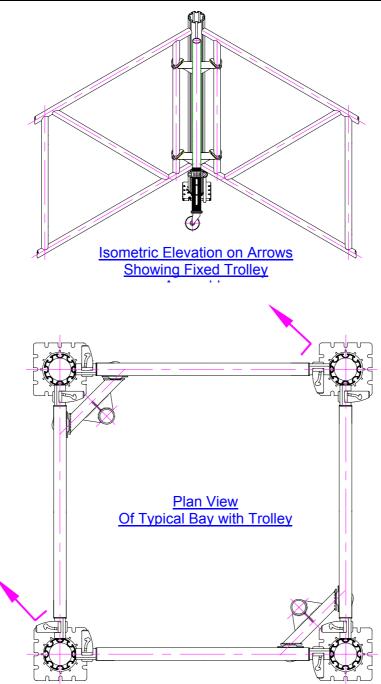
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Guidance Notes: Components shown on pages 009 & 010 For height limits, refer to dimension 'H' on Page: 009 and relate to exact position of ledger frame.

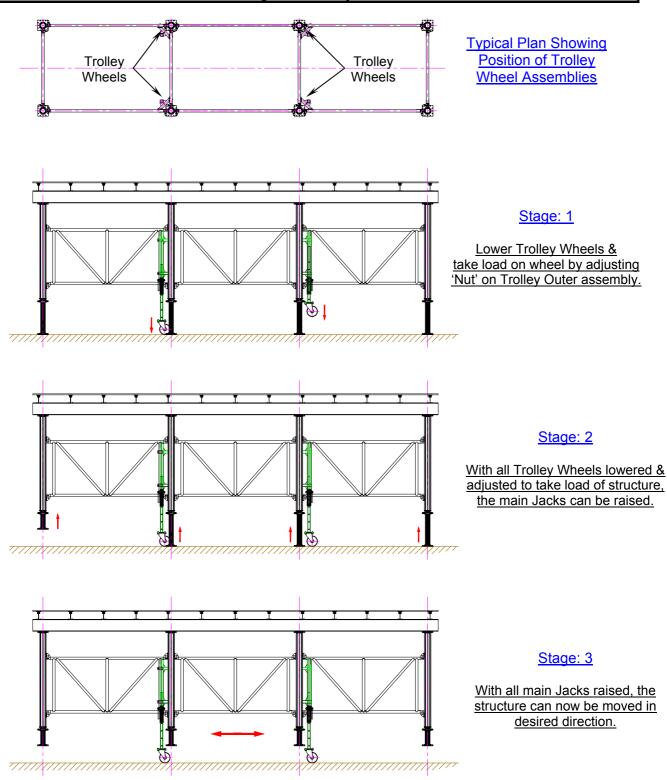


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Trolley Use Sequence



Important Notes:-

For safety, during the movement of the table, ensure that the legs clear the ground by a small clearance i.e. 25mm to 50mm.

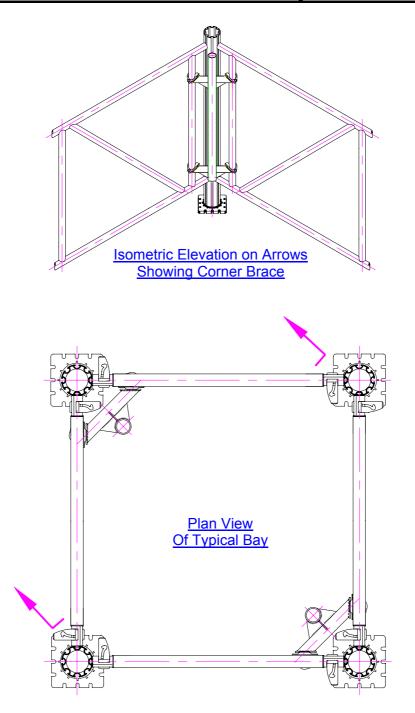
This method of moving is not suitable for use on rough terrain.



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Corner Brace Assembly



Guidance Notes

The corner brace is intended for use as a method of ensuring that the 1st bay erected is set with a 90° angle at each corner and is not 'out of true'.

It is attached to the frames in the same way as the Trolley Outer, (see Page 19) i.e with 2 No. required per bay. With larger structures, additional corner bracing may be required in occasional bays to ensure that the whole structure remains 'true & square'.

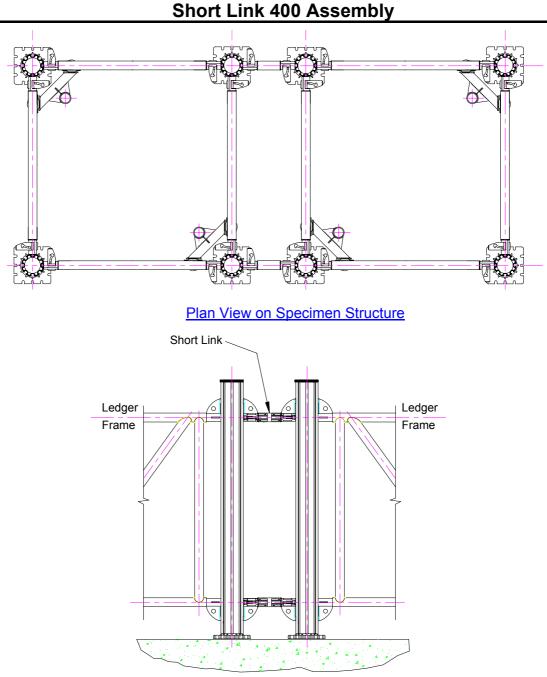
The braces can be removed after positioning of the bay or they can be left in place.



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Elevation on Link Assembly

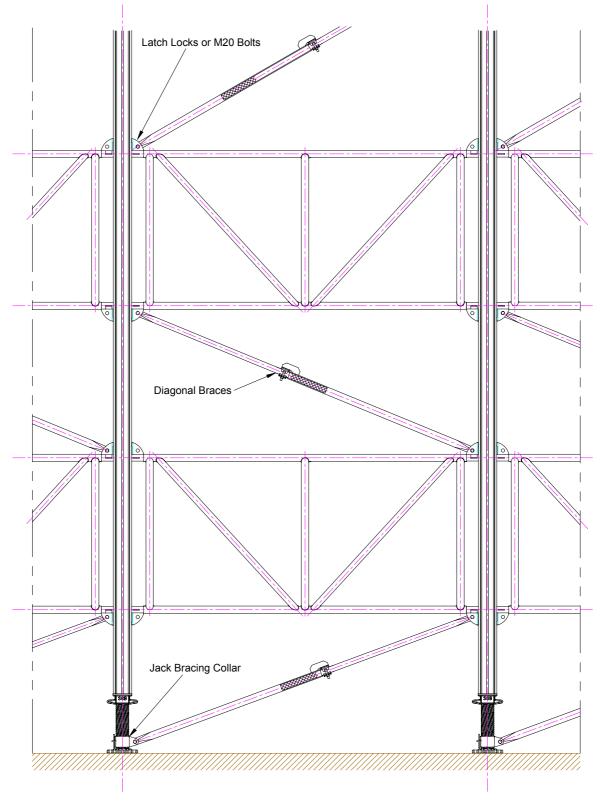
Guidance Notes:

- 1) The Link 400 is specifically designed to tie braced towers together.
- 2) <u>They are not a substitute for ledger frames.</u>
- 3) Maximum axial I = 5kN (Tension or Compression)
- 4) For more details of fittings, see Page: 104



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Plan View on Typical Structure



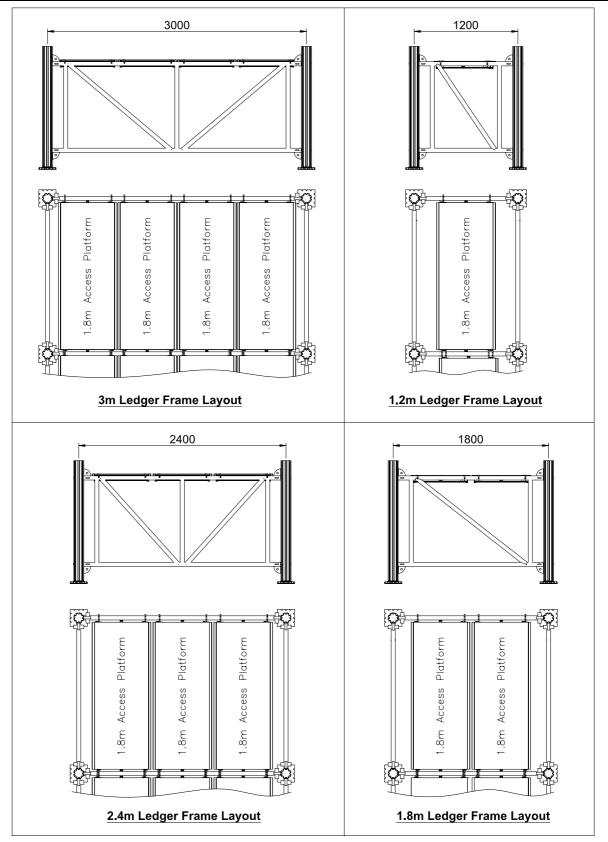
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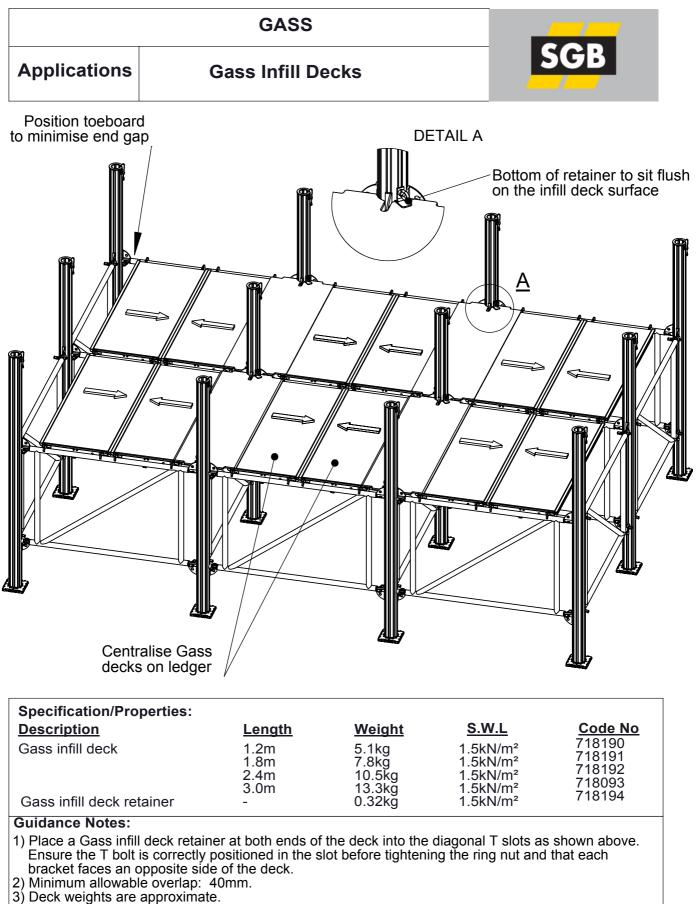
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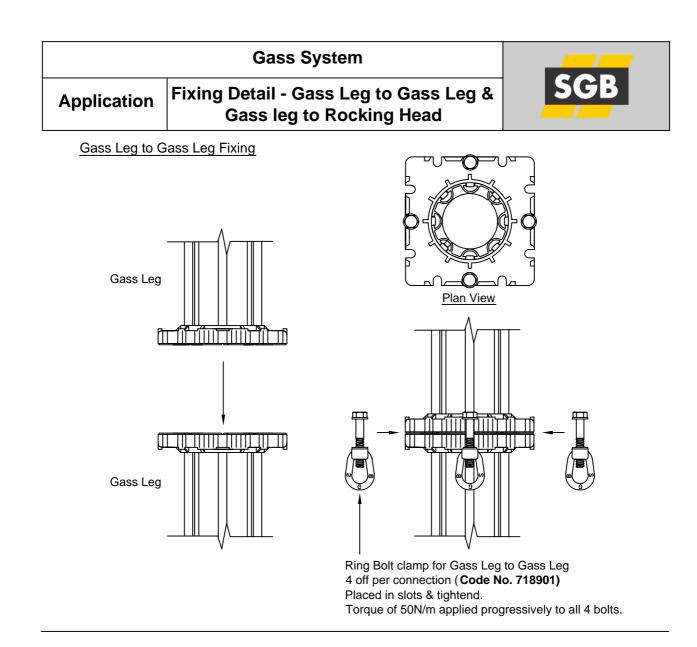


Note: Platforms may be positioned either at the top or bottom members and carry a load of 1.5kN/m². Larger gaps may be present when spanning gaps on the lower ledger.

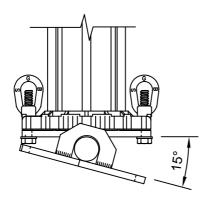


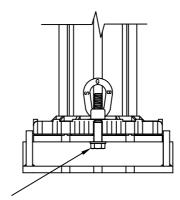
 4) To prevent rocking and trip hazards, the ledger frame that is spanned by the infill deck must be slightly lower than the ledger frames supporting the decks.

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Gass Leg to Rocking Head/Base Plate





Ring Bolt clamp for Gass Leg to Gass Leg 2 off per connection (**Code No. 718901)** Placed in slots & tightend.

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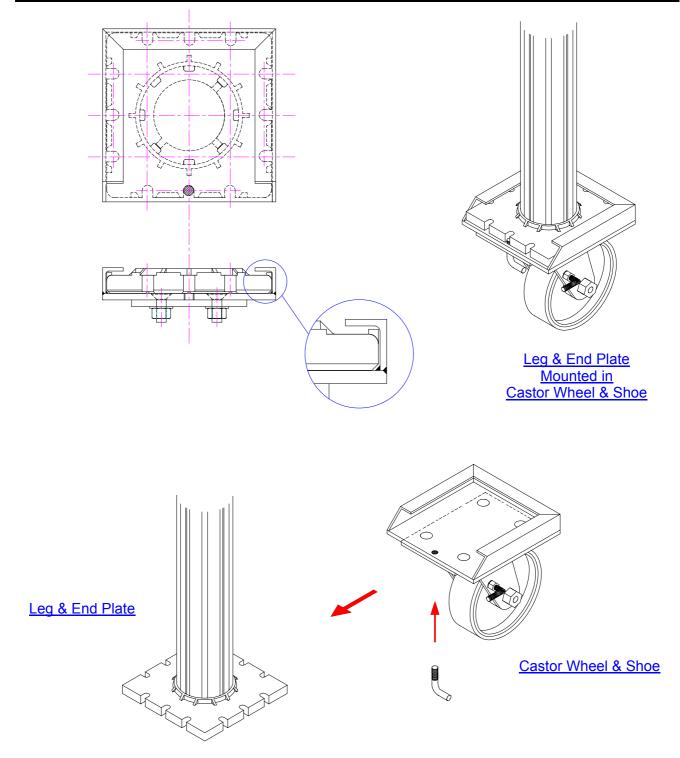


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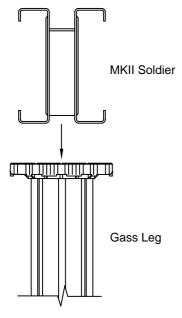
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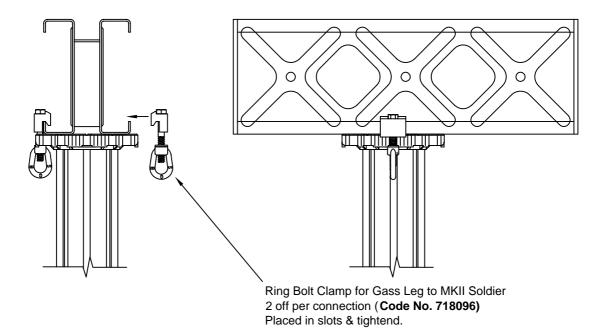
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Castor Shoe Application



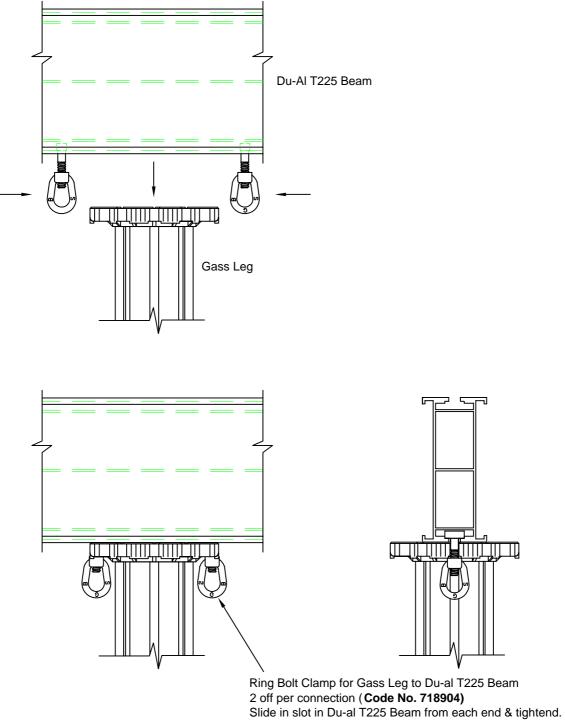
	Gass System	
Application	Fixing Detail - Gass Leg to MKII Soldier	SGB





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	Gass System	
Application	Fixing Detail - Gass Leg to Du-Al Beam	SGB



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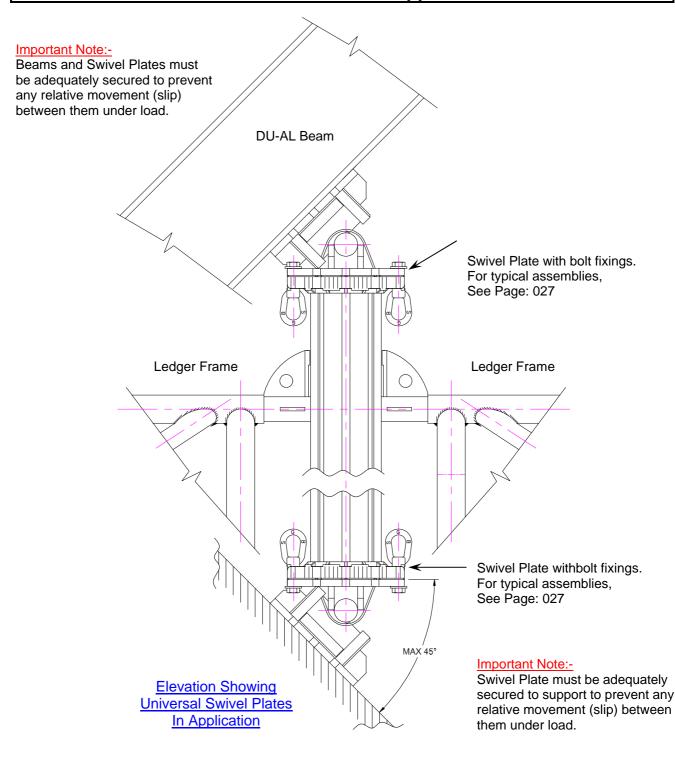


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Universal Swivel Plate Application



Guidance Notes:-

The fixings between beam and Swivel Plate / Swivel Plate and support must be calculated on an individual project basis.

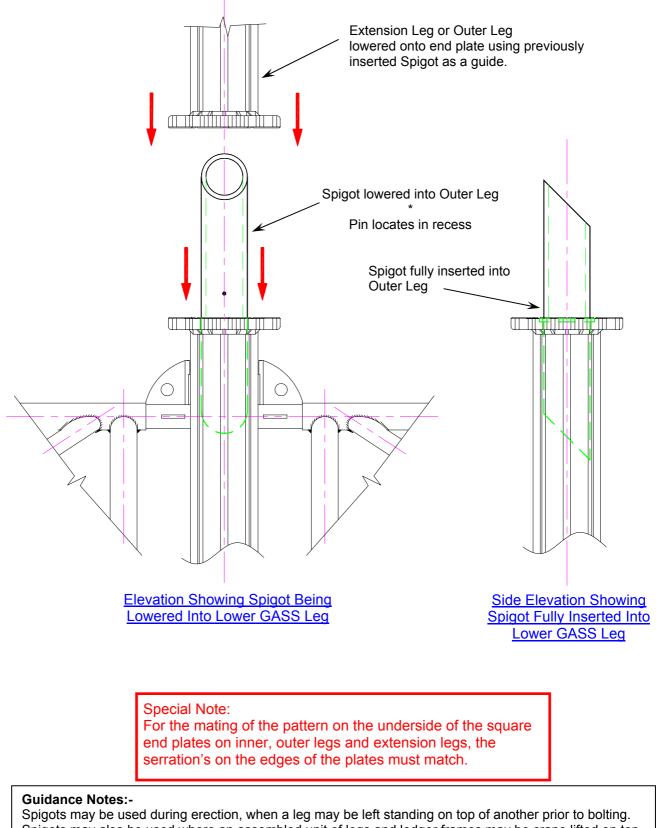


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Spigot Application



Spigots may be used during erection, when a leg may be left standing on top of another prior to bolting. Spigots may also be used where an assembled unit of legs and ledger frames may be crane lifted on top of a previously erected structure; in this case the spigot acts as a locating guide.



Applications

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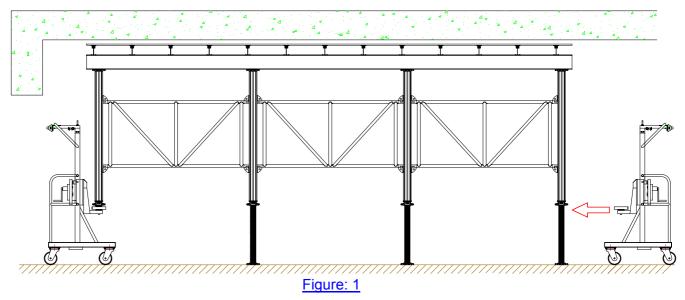
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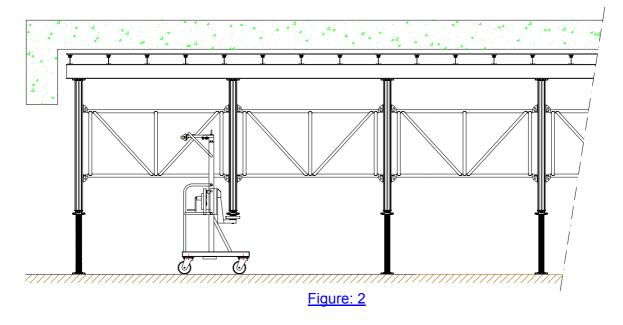
General Use of GASS Trolley – (1 of 3)

The GASS Trolley has been designed for use with GASS Table Forms which should be struck from the soffit before the trolley is used. Use at least 4 Trolleys per Table Form. Maximum weight of GASS Table Form is 4 tonnes. Refer to separate Data sheets for use with flying tables.

On short tables, 1 bay wide by 2-3 bays long, use the Trolleys on the corner bays:- Figure 1.



On longer tables, 1-2 bays wide by 4-6 bays long, lift from 2nd leg in from each corner:- Figure 2.



Note: Castors on trolleys should be aligned to suit the direction of travel before taking the weight of the table form. For guidance on wheel positions and allowable downloads, refer to Flying Table notes on Pages: 129 to 133



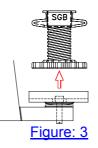
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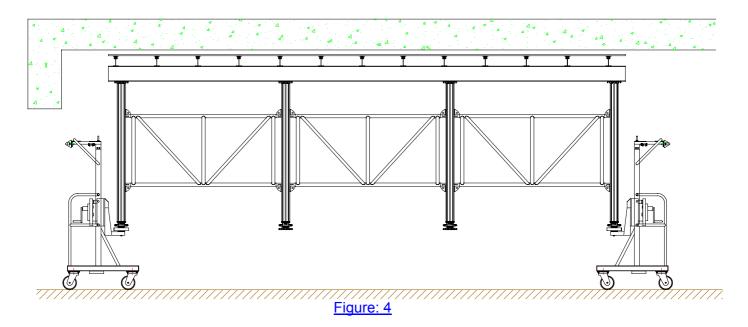
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General Use of GASS Trolley – (2 of 3)

Raise the Inner GASS Jack Leg, to be supported by the Trolley, by the Table Form drop height required plus clearance. Support the base plate of the raised inner leg by the plateau on the Trolley ensuring that the spigot on the plateau engages the hole in the base plate:- Figure 3.



Repeat this sequence for the other Trolleys and retract the remaining unsupported inner legs so that the weight of the Table Form is transferred to the Trolleys: Figure 4.



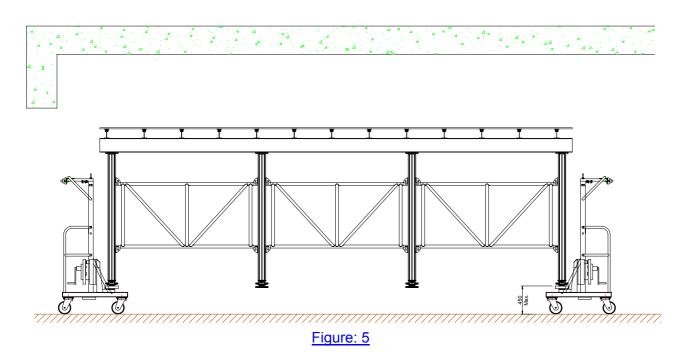
Using the winch on the Trolleys, lower the Table Form until it will pass under the obstruction. The Trolleys must be lowered simultaneously to ensure the weight of the Table is shared equally between the Trolleys: Figure 5.



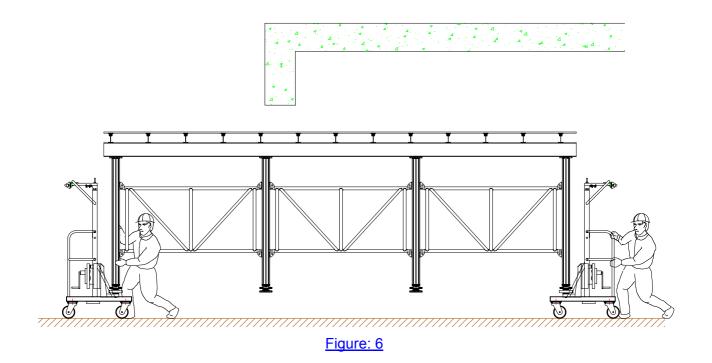
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General Use of GASS Trolley – (3 of 3)



For safety and stability, the plateau of the trolley should be a maximum of 450mm above the ground when moving the table.

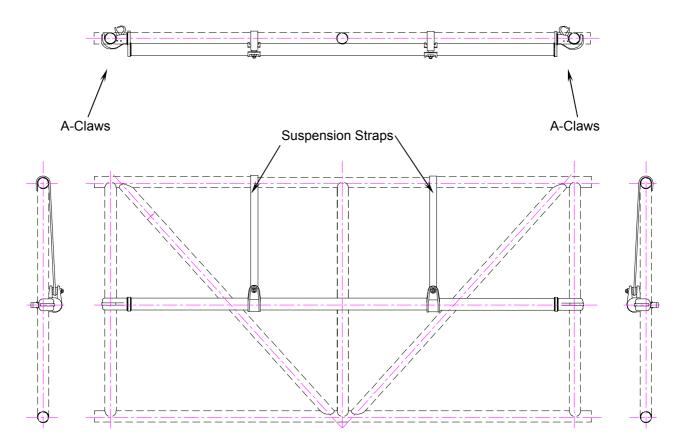




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Intermediate Guard Rail Connected to Ledger Frame



Example Elevation Showing Guard Rail Arrangement on 2.4m Ledger Frame

<u>To Install</u>

- 1. Open straps to vertical (as shown).
- 2. Cock the triggers of the A-Claws at the end of the hand rail.
- 3. Suspend from the top of the ledger frame as shown.
- 4. Push to secure A-Claws to vertical members of the ledger frame.

<u>To Remove</u>

- 1. Cock open the triggers of the A-Claws.
- 2. Pull back and lift off the hand rail.
- 3. Fold suspension straps when not in use.



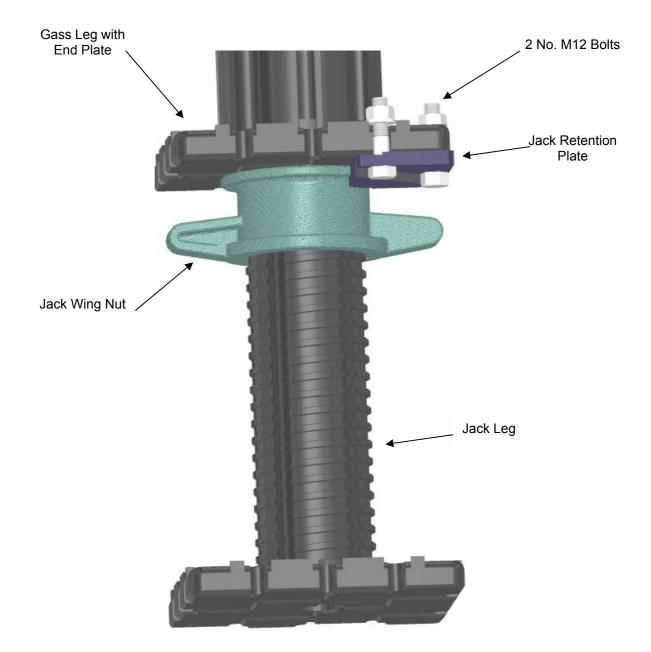
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Jack Retention Plate Application



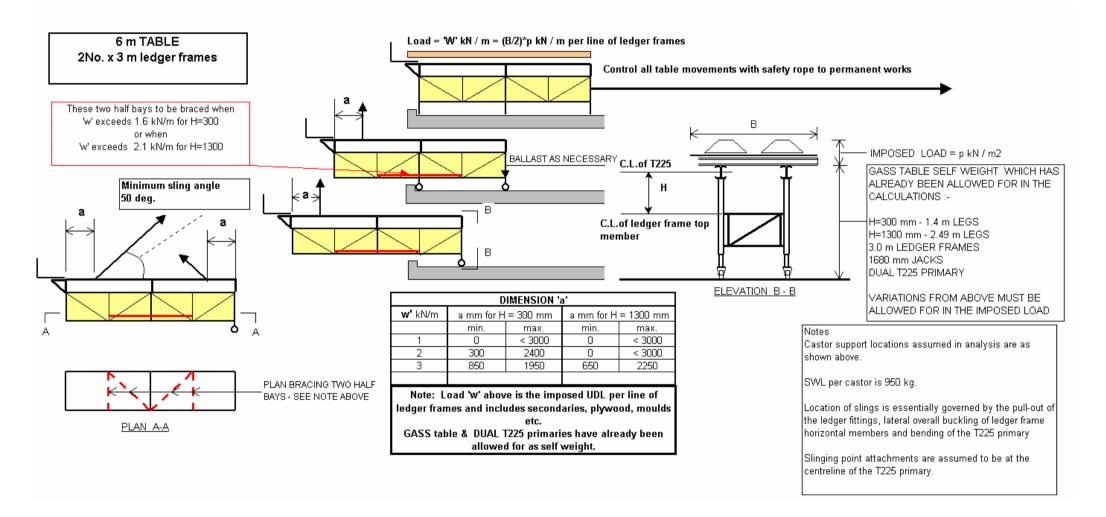
Jack Retention Plate allows retention of the Inner Leg (Adjustable Jack) to the square base plate of the GASS Leg.

SWL = 500kg retained by Retention Plate



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GASS Flying Tableforms – Safe Slinging Points – 6m Table (Continuous DUAL T225 Primary)

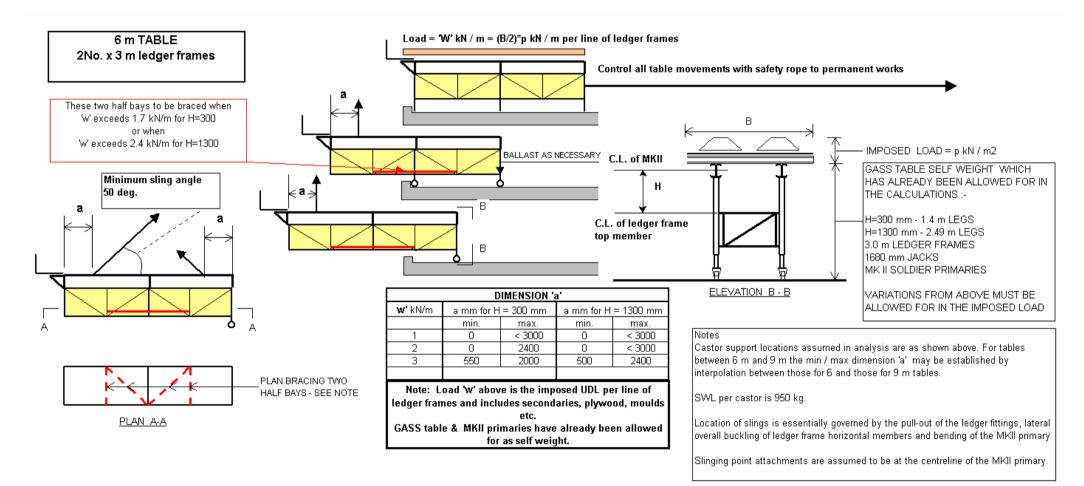




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GASS Flying Tableforms – Safe Slinging Points – 6m Table (Continuous MKII Soldier Primary)

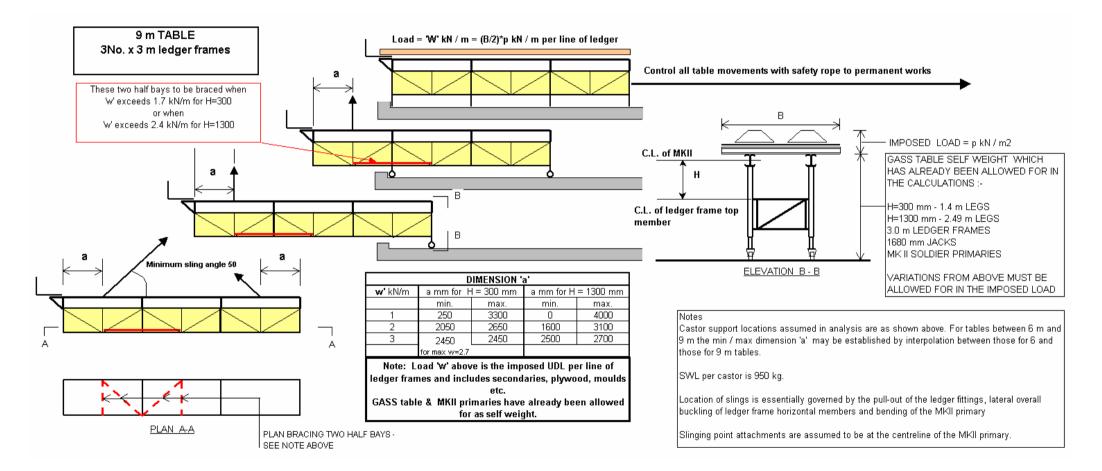




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GASS Flying Tableforms – Safe Slinging Points – 9m Table (Continuous MKII Soldier Primary)

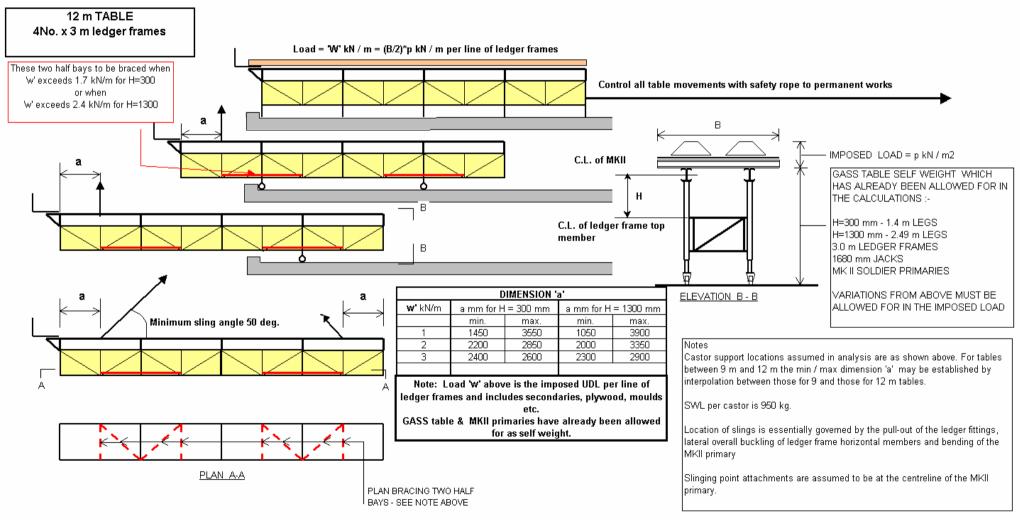




Application

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GASS Flying Tableforms – Safe Slinging Points – 12m Table (Continuous MKII Soldier Primary)

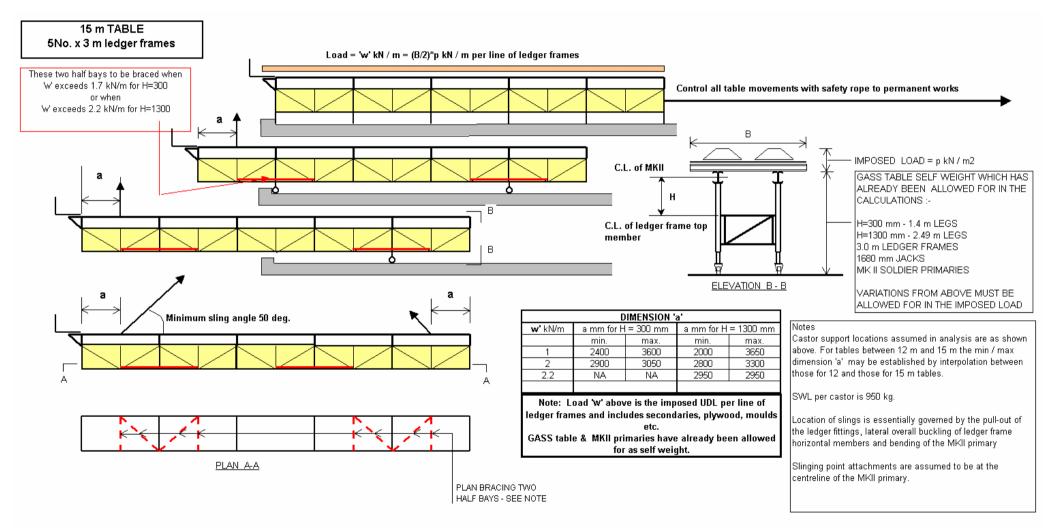




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GASS Flying Tableforms – Safe Slinging Points – 15m Table (Continuous MKII Soldier Primary)



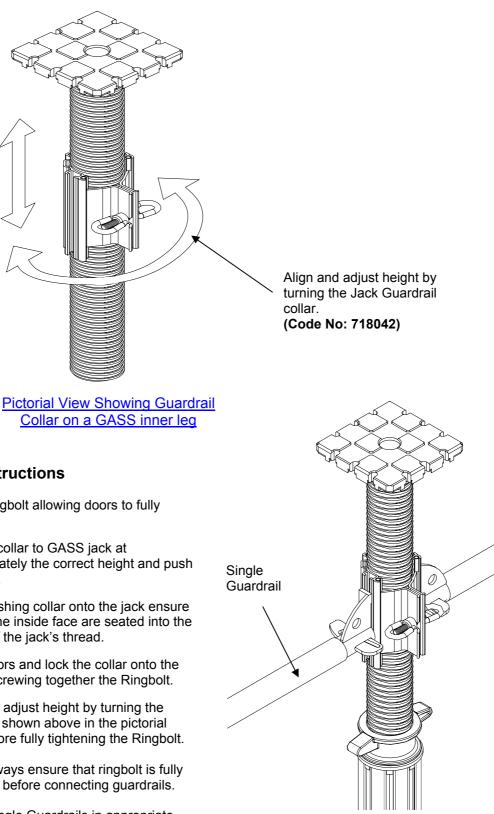


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Jack Guardrail Collar Applications



Pictorial View Showing Typical **Guardrail Collar Application**

Fitting Instructions

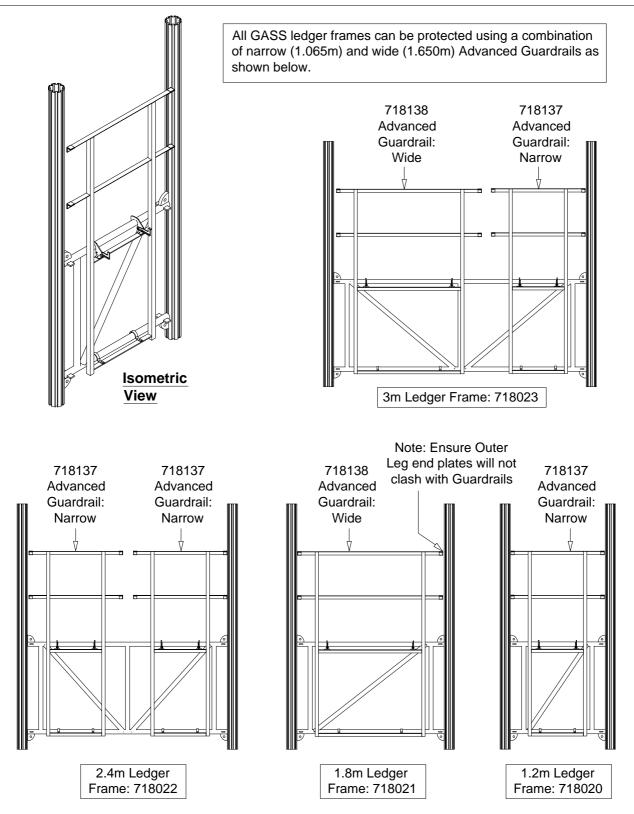
- Undo Ringbolt allowing doors to fully 1. open.
- 2. Offer-up collar to GASS jack at approximately the correct height and push onto jack.
- 3. When pushing collar onto the jack ensure tabs on the inside face are seated into the bottom of the jack's thread.
- 4. Close doors and lock the collar onto the jack by screwing together the Ringbolt.
- 5. Align and adjust height by turning the collar (as shown above in the pictorial view) before fully tightening the Ringbolt.
- 6. Note: Always ensure that ringbolt is fully tightened before connecting guardrails.
- 7. Attach Single Guardrails in appropriate positions. (Refer to information on page 33)



Application

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Advanced Guardrail Applications



Guidance Notes: Ensure guardrails are equally spaced on ledger frames and secure the wedge with a light hammer action.

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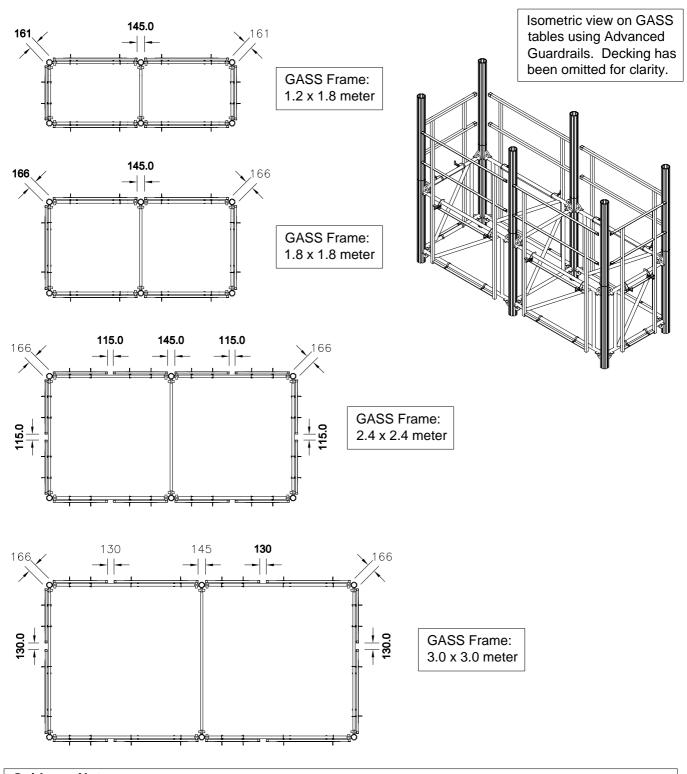
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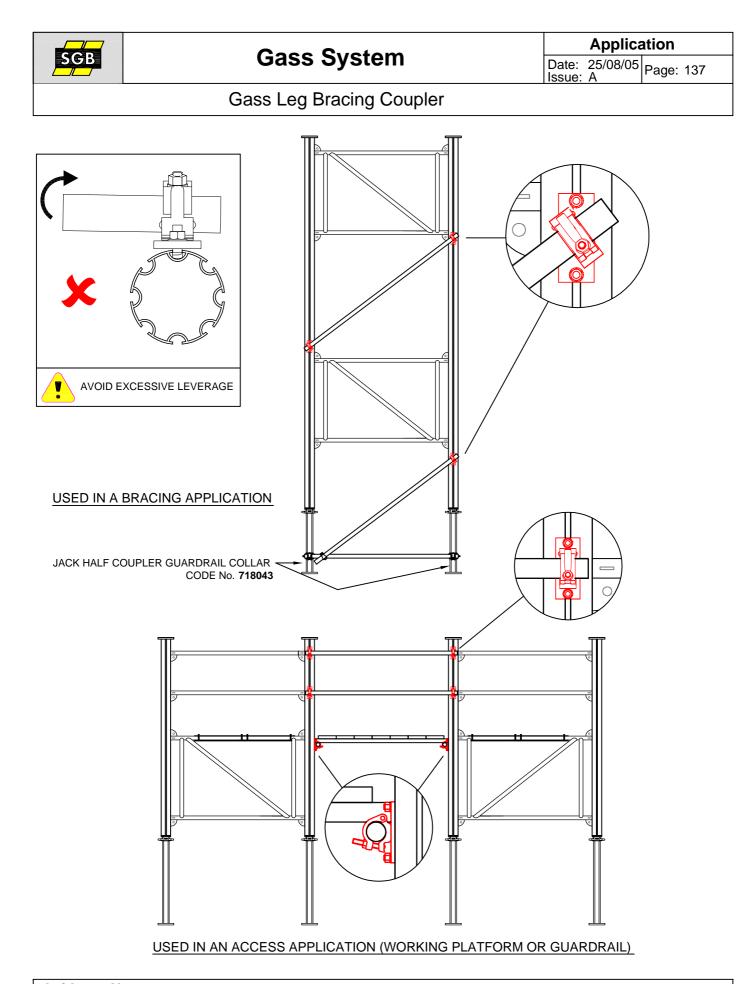
Application
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Advanced Guardrail Applications

Plan view on GASS tables showing typical gaps once Advanced Guardrails have been placed. Decking has been omitted for clarity.



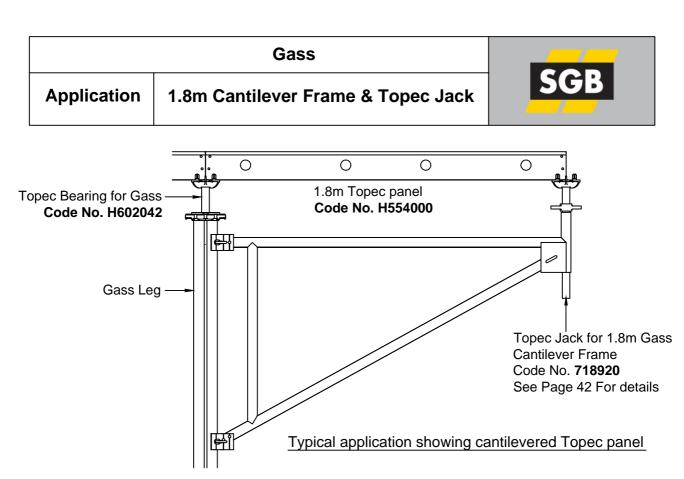
Guidance Notes: The corner gaps shown are only present if the outer legs are lower than the advance Guardrails



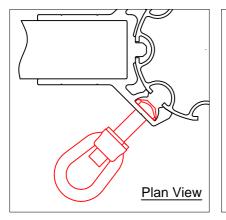
Guidance Notes:

See page 37/1 for component details. 1. Always use in pairs. 2. Avoid excessive leverage.

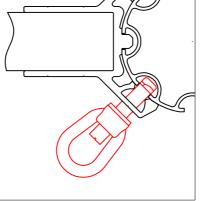
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Cantilever Bracket Erection Procedure

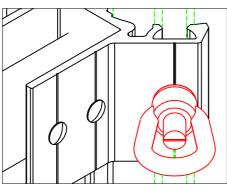


1.Position the Cantilever Bracket onto the Gass leg with the 'T Bolts' fully retracted into the extrusion.



2.With the Cantilever Bracket in postion turn the 'T Bolts' through 90° and insert into the slots in the Gass Leg.

3.Turn the 'T Bolts' through 90° clockwise and tighten the ring nut to secure the Cantilver Bracket.

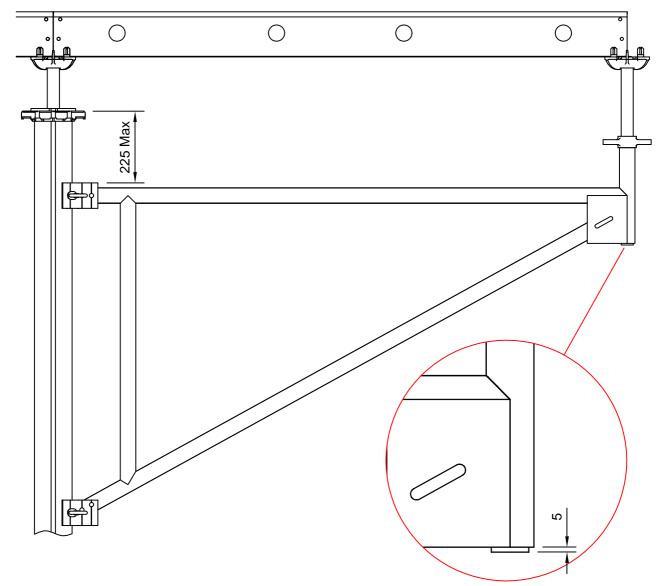


IMPORTANT SAFETY CHECK

Ensure that groove on the end of each 'T Bolts' is in the horizontal position when the Cantilever Bracket is secure.

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	Gass	
Application	1.8m Cantilever Frame & Topec Jack	SGB



The 1.8m Gass Cantilever Frame should be positioned on the Gass leg, no more than 225mm from the top of the extrusion to the top of the Gass head plate as indicated.

As a visual indication the Topec Jack should always protrude through the cantilever frame spigot by a minimum of 5mm.

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