acrow.
ENGINEERING & CONSTRUCTION

TECHNICAL GUIDE
ACROW POWERSHORE 150

FALSEWORK & SHORING

Any safety provisions as directed by the appropriate governing agencies must be observed when using our products. Illustrations in this document represent partial assembly stages and should not be considered complete configurations. For the purpose of safety, they shall not be considered definitive.

The loads featured in this document, related to the parts of the product, are approximate.

The company reserves the right to introduce any modifications deemed necessary for the technical development of the product.

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Technical Manual Release Notes

This page is intended to record all changes to the **POWERSHORE 150** technical manual pages. Changes or additions to this manual will be itemised with a brief description and date when the amendments were made.

ISSUE	DATE	Amendment Description
F	04/2026	Sixth Release
G	06/2026	Seventh Release
H	10/2026	Location page updated

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1. Technical Specifications

System Description

The Acrow **POWERSHORE 150** is a heavy-duty high load propping and shoring system designed to withstand up to 150 tonne shoring loads per vertical member. The modular Acrow **POWERSHORE 150** is primarily used to create temporary stand-alone frames and raking strut structures for the mining, infrastructure, and commercial industries.

The heavy-duty system is also more versatile for propping tall structures, as the tower resists significant lateral forces. The **POWERSHORE 150** components can also be used as a horizontal beam, removing the need to use steel beams. The built-in strength of each individual **POWERSHORE 150** galvanised component contributes to the construction of a support tower capable of supporting loads in excess of 6000kN.

Purpose of the Document

The purpose of this document is to provide guidelines for design, safe handling, transport and installation of the **POWERSHORE 150** system.

The document also outlines the various components of the system and it features illustrations, working load limits, typical assembly arrangements and safe transport and handling measures.

The information contained in this document is provided as a general guide only and does not replace the need for the design to be reviewed and checked by a qualified person in the field of temporary works design and installation, concrete, steel, building construction and services.

This material has been prepared in the context of relevant Australian Standards and the National Construction Code (NCC). Users should make themselves aware of any recent changes to these documents referred to therein and to local variations or requirements.

This document is NOT a substitute for site-specific Safe Operation Procedures. It is the Installation Contractor's responsibility to prepare safe work method statements and observe and comply with site specific health and safety regulations, standards, and policies.

Acrow has dedicated engineering services available for project assistance. We can provide design support for clients to determine the best way to specify and document the **POWERSHORE 150**. Our technical experts can identify the most efficient temporary work design meeting project requirements, specifications and installation process.

Should the users require any further information or guidance, they are encouraged to contact their local Acrow branch.

Safety Information

This safety information draws the user's attention to potential musculoskeletal risks associated with manual handling. It is recommended that appropriate procedures and control measures be implemented during assembly and dismantling of the **POWERSHORE 150** system. Refer to the Code of Practice on manual handling published by local Workcover Authority or other approved and recognised guidelines for correct and appropriate manual handling procedures.

1. Technical Specifications

Important Information

The erection and application instructions contained in this manual are the recommended methods to be used for **POWERSHORE 150** products.

The technical function related instructions must be accurately followed to obtain the correct performance of the product. Any deviation from the recommended usage will require a separate design and/or verification by Acrow Engineering.

The safe use and application of the system must be in accordance with Australian Standard AS 3610 Formwork for Concrete, Occupational Health & Safety regulations, approved industry codes of practice and relevant regulatory authority requirements.

The illustrations in these assembly configurations are minimum guidelines only.

The combined use of the **POWERSHORE 150** system with equipment from other suppliers may entail performance issues and therefore requires a design check and/or verification by Acrow Engineering or a qualified experienced engineer.

Hazard Identification/Risk Assessments for the erection and dismantling of the system are available from Acrow branches. Site specific Hazard and Risk assessments may need to be prepared for specific projects.

Disclaimer

1. The photographs/illustrations shown within this manual are intended as expressing the diversity and possible applications of the product and as such must not be used as assembly instructions.
2. In line with Acrow's commitment to continuous product development and improvement, the information contained in this manual may be changed without notice. Please confirm with Acrow Engineering for latest update.
3. While all reasonable effort has been taken to ensure the accuracy and adequacy of the information contained herein, Acrow accepts no responsibility or liability for any loss or damage suffered by any person acting or refraining from action as a result of this information.

Should users require any expert assistance, they are encouraged to contact Acrow Engineering department.

Applicable Codes and Standards

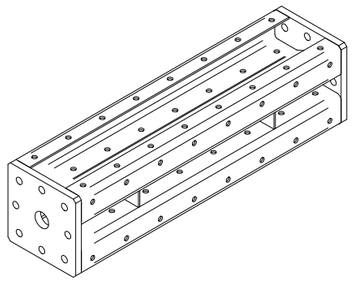
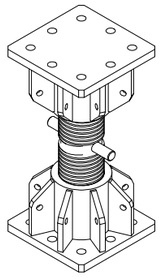
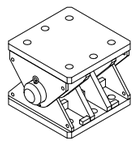
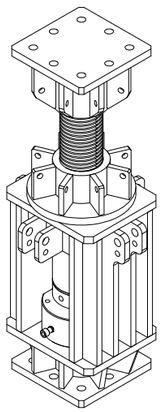
The structural design information and guide provided in this document are limited to the relevant codes listed below. It does not include certification of any structures or works associated with a project.

ELEMENT	DESCRIPTION	CODE
LOADING	Structural Design Actions – General Principles	AS/NZS 1170.0-2002
	Structural Design Actions – Permanent, Imposed And Other Actions	AS/NZS 1170.1-2002
STEEL	Cold-Formed Steel Structures	AS 4600-2020
	Steel Structures	AS 4100-2020
FORMWORK	Formwork for Concrete	AS 3610-1995
	Formwork for Concrete Part 1- Specifications	AS 3610.1-2018

2. GENERAL PRODUCT INFORMATION

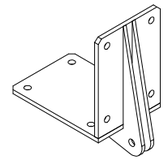
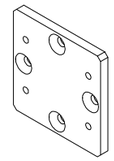
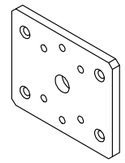
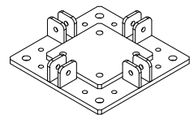
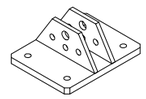
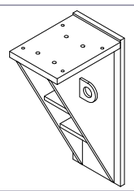
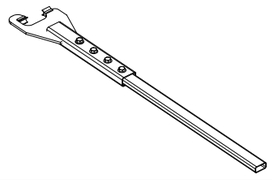
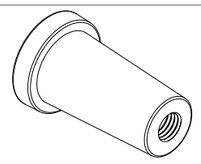
2. General Product Information

Powershore 150 Components

PRODUCT	DESCRIPTION	PRODUCT CODE	MASS (kg)
	**Powershore 150 Props** A wide range of heavy-duty load props designed to be bolted together. The Powershore 150 props are capable of withstanding 1500 kN shoring loads.		
	100mm Prop	AP150P01	35.4
	300mm Prop	AP150P03	46.9
	600mm Prop	AP150P06	65.0
	1200mm Prop	AP150P12	100.6
	1800mm Prop	AP150P18	136.2
	2400mm Prop	AP150P24	171.7
	25mm Packer Plate	APS15025PP	16.4
	**1500 kN Screw Jack** A jack designed to interface with the Powershore 150 Prop section and is suitable for a 1500kN WLL at full 200mm extension.		
	420 - 620mm	APS150SJ	108.6
	**1500 kN Raking Bracket** Provides up to 60° of rotational capacity, the Raking Bracket is designed to be bolted to the Powershore 150 props end-plates.		
	Raking Bracket	APS150RB	74.6
	**1500 kN Hydraulic Jack** A 1500 kN hydraulic jack designed to be bolted to the Powershore 150 props' end plates. The Hydraulic Jack has a 200mm jacking capacity at 16 mm intervals.		
	Hydraulic Jack	APS150HJ	331.0

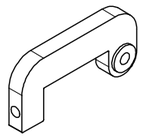
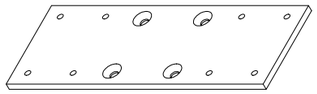
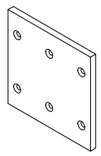
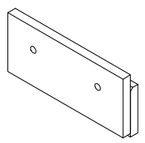
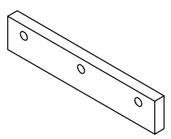
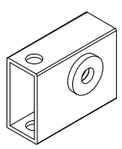
2. General Product Information

Powershore 150 Adapters & Spanner

PRODUCT	DESCRIPTION	PRODUCT CODE	MASS (kg)
	**Brace Adapter** Bolted to the Powershore 150 prop walls, designed for plan brace of the Powershore 150 structure.		
	Brace Adapter	APS150BA	14.7
	**Powershore 150 End Plate Adapter** Designed for connecting the Powershore 150 prop end plate to another Powershore 150 prop side wall.		
	End Plate Adapter	APS150EPA	17.0
	**Powershore 150 Soldier Adapter** Designed for Slim-Max soldier end plate connection to Powershore 150 Prop wall flange and lip.		
	Soldier Adapter	APS150SA	10.3
	**Powershore 150 Jack Brace Adapter** Designed for HT Thru Tie Bar (Z-bar) brace connection to Screw Jack (or Hydraulic Jack).		
	Jack Brace Adapter	APS150JBA	54.8
	**Powershore 150 Prop / Turnbuckle Adapter** Designed for Slim-Max Prop or Turnbuckle connection to Powershore 150 Prop side wall.		
	Turnbuckle Adapter	APS150PTA	12.9
	**450kN Wall Bracket** Provides mounting point for other PS150 items.		
	450kN Wall Bracket	PSWB450	135.3
	**Powershore 150 Spanner** This spanner is used for adjusting the 1500kN Screw Jack height. The spanner is designed to fit into the jack's screw Handle Locating Lug.		
	Spanner	AP150S	48.0
	**M48/M36 Cone** Used on inside of shutters to create mounting locations after pours.		
	M48/M36 Cone	QTTCM48/M36	5.8

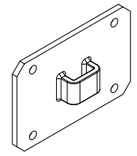
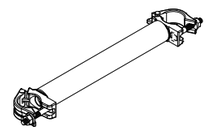
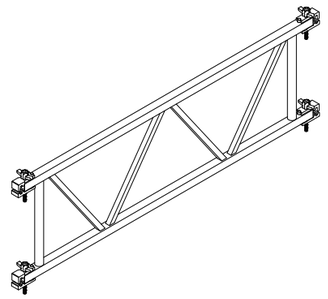
2. General Product Information

Powershore 150 Tie Bar Adapters & Waler Brackets

PRODUCT	DESCRIPTION	PRODUCT CODE	MASS (KG) (NOM.)
	**Powershore 150 Tie Bar Adapter** Designed for cross bracing the Powershore 150 structure. The Tie Bar Adapter is fixed into members using D19 podger pin. A 15mm diameter HT Thru Tie Bar with HT Thru Tie Hex Nut are used as bracing members.		
	Tie Bar Adapter Type 1	APS150TBA	5.2
	Tie Bar Adapter Type 2	APS150TBAT2	4.8
	Powershore 150 Tie Bar Adapter Fixed With 15mm diameter x 50mm HT Hex nut fully welded. Designed for cross bracing the Powershore 150 structure. The tie Bar adapter is fixed into members using D19 podger pin.		
	Tie Bar Adapter Fixed	APSTBAF	1.0
	**Waler Bracket Adapter Type 1** Designed to sandwich the vertical Powershore 150 member and allow a point to attach the raker bracket.		
	Waler Bracket Adapter Type 1	APS150WB1	39.7
	**Waler Bracket Adapter Type 2** The Waler Bracket Adaptor Type 2, together with the Waler Bracket Inner Washer, is designed to fix the horizontal Powershore 150 member to the vertical Powershore 150 member.		
	Waler Bracket Adapter Type 2	APS150WB2	28.8
	**Waler Bracket Clamp Washer** Designed to hold the Waler Bracket Adaptor Type 2 and attach it to the Powershore 150 shoring structure.		
	Clamp Washer	APS150WB3	23.5
	**Waler Bracket Internal Washer** The Waler Bracket Internal Washer, together with the Waler Bracket Adaptor Type 2, is designed to hold the horizontal PS150 waler		
	Internal Washer	APS150WB4	5.6
	**Powershore 30 Adaptor** Adaptor connecting the Powershore 150 Props to a Powershore 30 prop.		
	Powershore 30 Adaptor	PS150PS30ADP	3.65

2. General Product Information

Powershore 150 Gate Adaptors

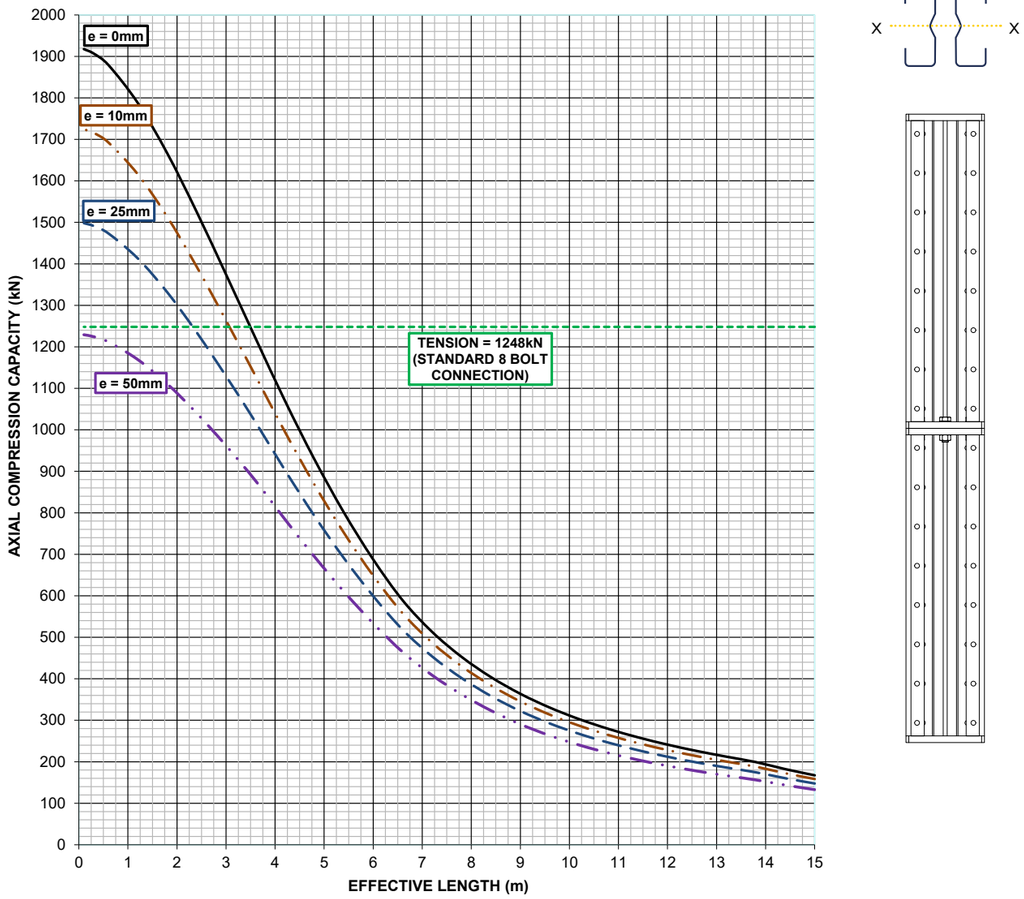
PRODUCT	DESCRIPTION	PRODUCT CODE	MASS (KG) (NOM.)
	**Horizontal Brace Adaptor** Used for cross bracing PS30 gate corners.		
	Gate Adaptor	APS150GA	6.1
	**Corner Brace** Used for cross bracing PS30 gate corners.		
	500mm Corner Coupler	APS150CBA	3.4
	**Acrow Powershore Horizontal Bracing Frames**		
	900 Hoz. Bracing Frame	APSF09	24.0
	1200 Hoz. Bracing Frame	APSF12	31.0
	1800 Hoz. Bracing Frame	APSF18	41.0
	2400 Hoz. Bracing Frame	APSF24	51.0
	3000 Hoz. Bracing Frame	APSF30	61.0

3. WORKING LOAD LIMITS (WLL)

3. Working Load Limits (WLL)

Prop Axial

Eccentricity in XX Axis:



Notes for X-X Axis:

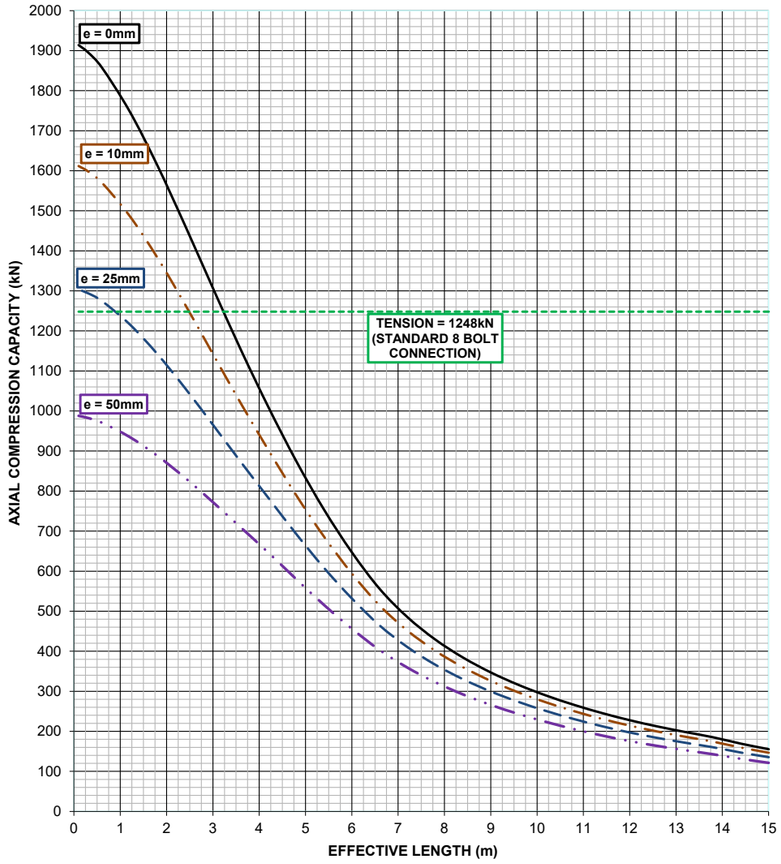
1. Maximum capacity is with component configured as shown. Other components may limit capacity. All system components must be checked to ensure sufficient capacities.
2. Fixing at the base and top plates to be suitably capable to transfer loads. Loads are based on a prop pinned at each end.
3. Maximum capacity is with components in working condition.
4. Initial eccentricity due to the possibility of the strut being set L/400 out of plumb (about the XX axis) has been considered for all eccentricities of load.
5. Limit State Conversion Factor (LSCF) of 1.5.
6. Tension capacity is based on standard 8 bolt pattern applied to the connection. Maximum tension capacity of the prop section is 1818kN (WLL).
7. Capacities are based on effective length of individual prop legs. The designer shall ensure all towers are adequately braced to prevent global tower buckling.

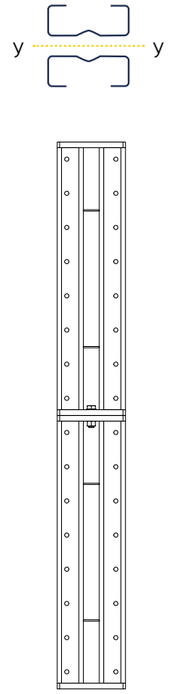
POWERSHORE 150

3. Working Load Limits (WLL)

Prop Axial

Eccentricity in YY Axis:





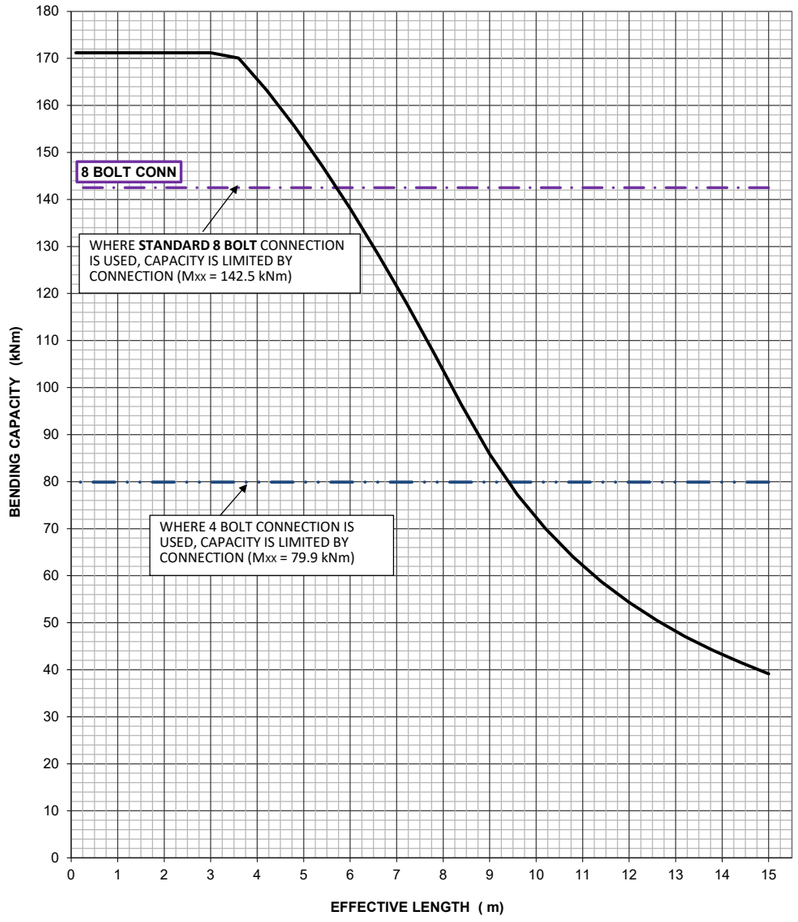
Notes for Y-Y Axis:

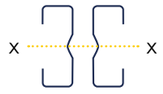
1. Maximum capacity is with component configured as shown, capacity may be limited by other components. Users shall check and ensure all components in the system have sufficient capacities.
2. Fixing at the base and top plates to be suitably capable of transferring loads. Loads are based on a prop pinned at each end.
3. Maximum capacity is with components in working condition. Contact Acrow Engineering if components are damaged during site use.
4. Initial eccentricity due to the possibility of the strut being set L/400 out of plumb (about the YY axis) has been considered for all eccentricities of load.
5. Limit State Conversion Factor (LSCF) of 1.5
6. Tension capacity is based on standard 8 bolt pattern applied to the connection. Maximum tension capacity of the prop section is 1818kN (WLL).
7. Capacities are based on effective length of individual prop legs. The designer shall ensure all towers are adequately braced to prevent global tower buckling.

3. Working Load Limits (WLL)

Prop Bending

Eccentricity in XX Axis:





Notes for X-X Axis:

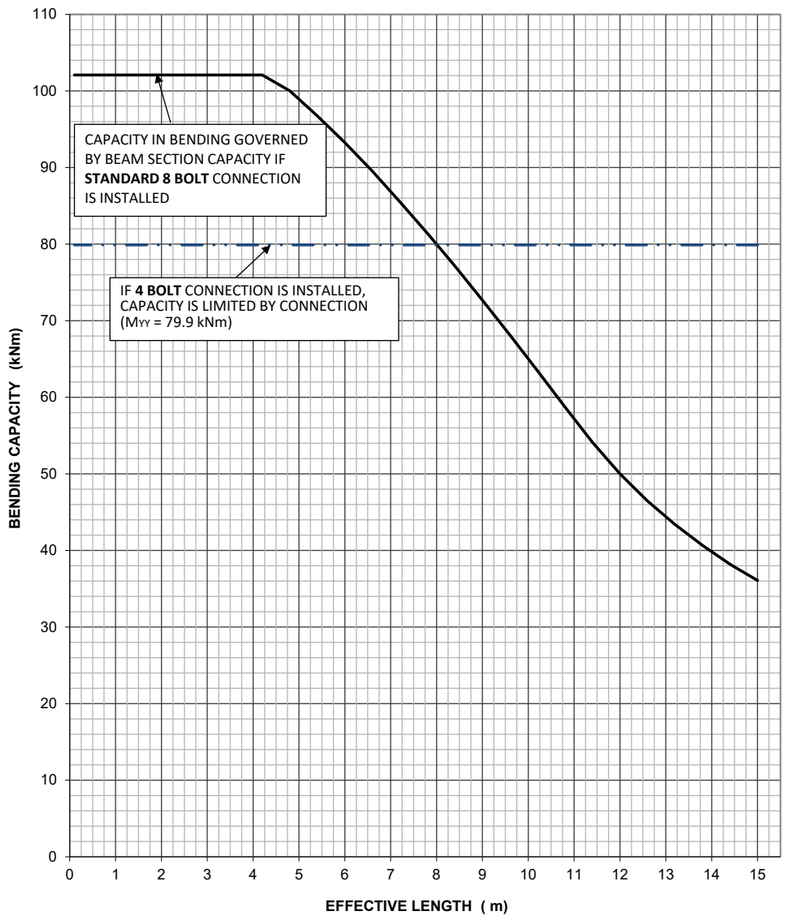
1. Maximum capacity is with component configured as shown, capacity may be limited by other components. Users shall check and ensure all components in the system have sufficient capacities.
2. Maximum capacity in X-X is governed by the bolt group when a standard 8 bolt connection is installed.
3. Maximum capacity is with components in working condition. Contact Acrow Engineering if components are damaged during site use.
4. Limit State Conversion Factor (LSCF) of 1.5

POWERSHORE 150

3. Working Load Limits (WLL)

Beam Bending

Eccentricity in YY Axis:

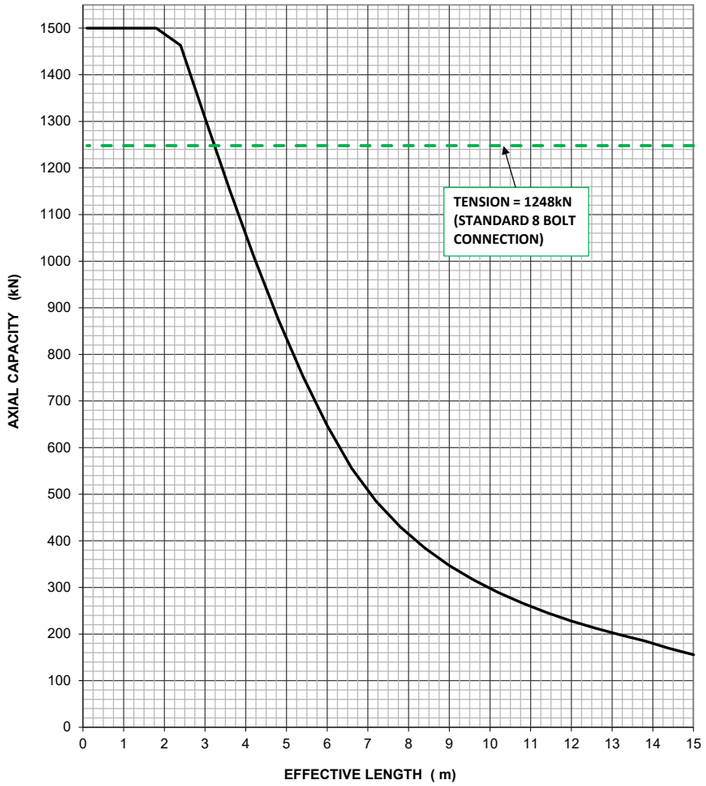


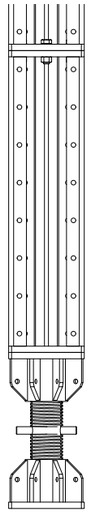
Notes for Y-Y Axis:

1. Maximum capacity is with component configured as shown, capacity may be limited by other components. Users shall check and ensure all components in the system have sufficient capacities.
2. Maximum capacity in Y-Y is governed by the beam section when a standard 8 bolt connection is installed.
3. Maximum capacity is with components in working condition. Contact Acrow Engineering if components are damaged during site use.
4. Limit State Conversion Factor (LSCF) of 1.5

3. Working Load Limits (WLL)

Axial - Prop Combined With Screw Jack



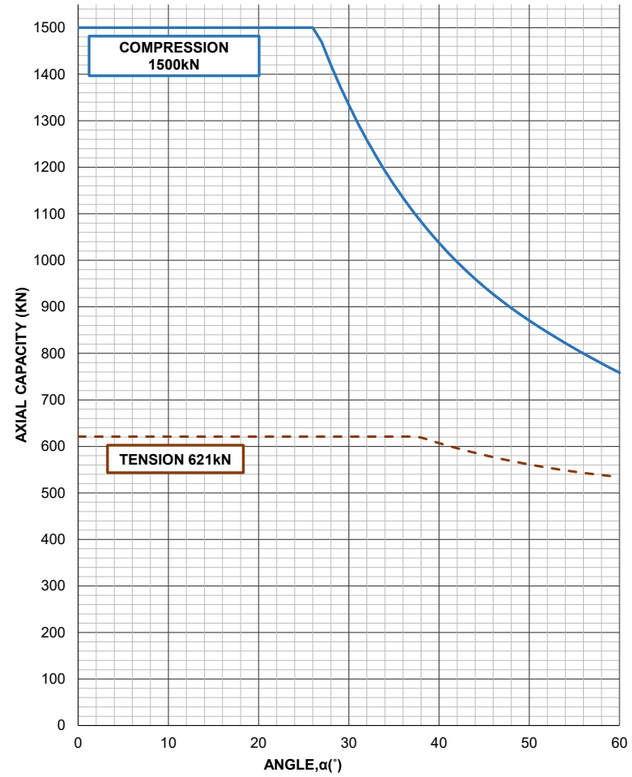


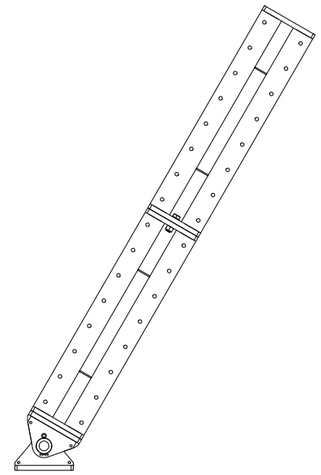
Notes:

1. Maximum capacity is with component configured as shown, capacity may be limited by other components. Users shall check and ensure all components in the system have sufficient capacities.
2. Fixing at the base of screw jack and top plate of beam to be suitably capable of transferring loads. Beam to screw jack connection via standard 8 bolt connection. Loads are based on a prop pinned at each end.
3. Maximum capacity is with components in working condition. Contact Acrow Engineering if components are damaged during site use.
4. Initial eccentricity due to the possibility of the strut being set L/400 out of plumb (about the YY axis) has been considered for all eccentricities of load.
5. Limit State Conversion Factor (LSCF) of 1.5
6. Capacities are based on effective length of individual prop legs. The designer shall ensure all towers are adequately braced to prevent global tower buckling.
7. Tension capacity is based on standard 8 bolt pattern applied to the connection. Maximum tension capacity of the prop section is 1818kN (WLL).

3. Working Load Limits (WLL)

Axial - Prop Combined With Raking Bracket Assembly



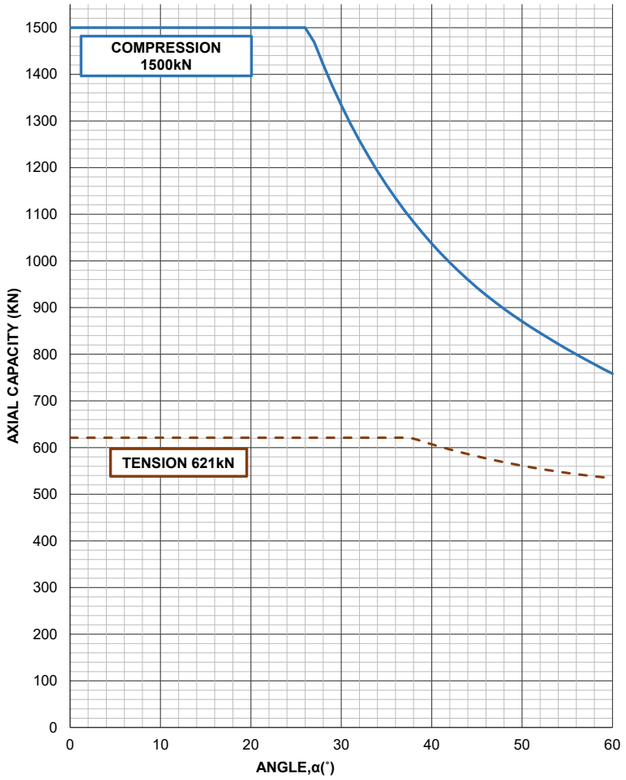


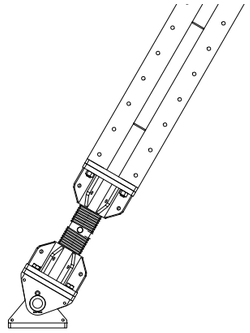
Notes:

1. Maximum capacity is with component configured as shown, capacity may be limited by other components. Users shall check and ensure all components in the system have sufficient capacities.
2. Angle 'a' (degrees) measured from vertical.
3. Fixing at the base of raking bracket and substrate to be suitably capable to transfer loads. Beam to raking bracket connection via 6 bolt connection (6 No. M24 Grade 10.9 bolts, nuts and washers).
4. Maximum compression capacity is subject to raking bracket orientation:
5. Max. Compression is limited to 1500kN for raker main ply parallel to beam webs
6. Max. Compression is limited to 900kN for raker main ply perpendicular to beam webs
7. Maximum capacity is with components in working condition. Contact Acrow Engineering if components are damaged during site use.
8. Limit State Conversion Factor (LSCF) of 1.5
9. Tension capacity is based on standard 8 bolt pattern applied to the connection. Maximum tension capacity of the prop section is 1818kN (WLL).

3. Working Load Limits (WLL)

Axial - Prop Combined With Screw Jack And Raking Bracket



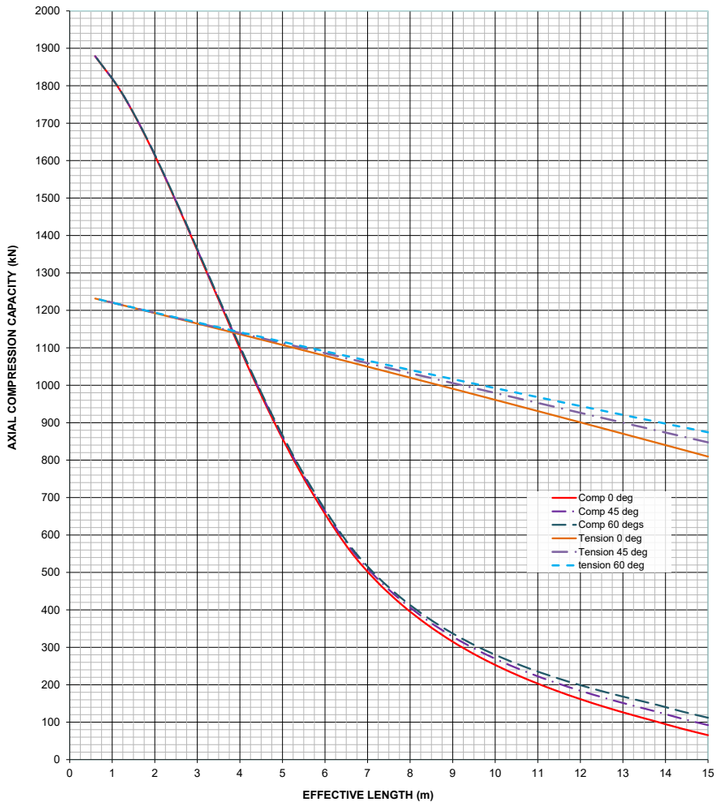


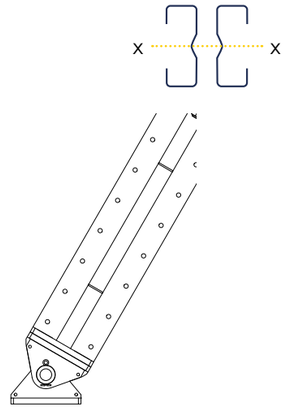
Notes:

1. Maximum capacity is with component configured as shown, capacity may be limited by other components. Users shall check and ensure all components in the system have sufficient capacities.
2. Angle 'a' (degrees) measured from vertical.
3. Fixing at the base of raking bracket and substrate to be suitably capable to transfer loads. Beam to screw jack connection via standard 8 bolt connection and screw jack to raking bracket connection via 6 bolt connection (6 No. M24 Grade 10.9 bolts, nuts and washers).
4. Maximum capacity is with components in working condition. Contact Acrow Engineering if components are damaged during site use.
5. Limit State Conversion Factor (LSCF) of 1.5

3. Working Load Limits (WLL)

Axial - Prop Raking Bracket With XX-Axis Taking Bending



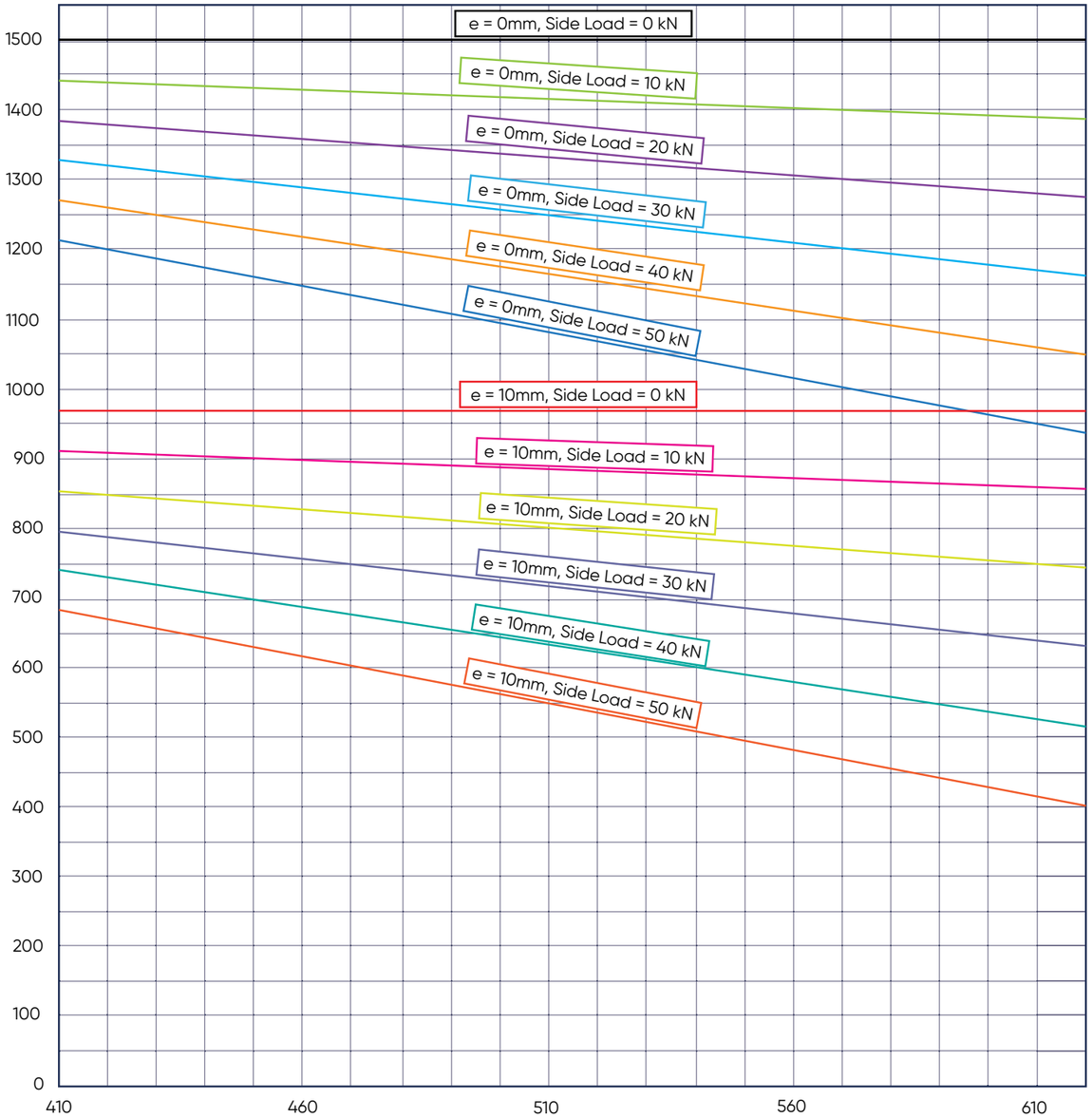


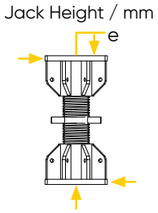
Notes:

1. Maximum capacity is with component configured as shown, capacity may be limited by other components. Designers shall check and ensure all components in the system have sufficient capacity.
2. Fixing at the base and top plates to be suitably capable of transferring loads. Theoretical model is pinned at each end with 0 eccentricity.
3. Maximum capacity is with components in working condition. Contact Acrow Engineering if components are damaged during site use.
4. Maximum initial straightness tolerance of the strut = L/400 (about the XX axis) has been considered.
5. Second order effects have been considered.
6. Limit State Conversion Factor (LSCF) of 1.5
7. Tension capacity is limited by typical:
    - 8 bolts pattern Powershore 150 prop to prop connection
    - 6 bolts pattern Raking Bracket to Powershore 150 prop connection
8. Raking Prop webs shall be in the vertical planes when loaded (X-X axis in bending to counter self-weight gravity).
9. Effective length from 0.6m to 15m with 0.6m increment. Length excludes jack and Raking Bracket
10. Min. average segment length 2400mm. Segments less than 2400mm in length shall be positioned at prop ends whenever possible.

3. Working Load Limits (WLL)

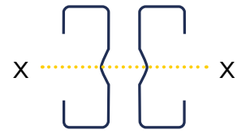
Screw Jack WLL

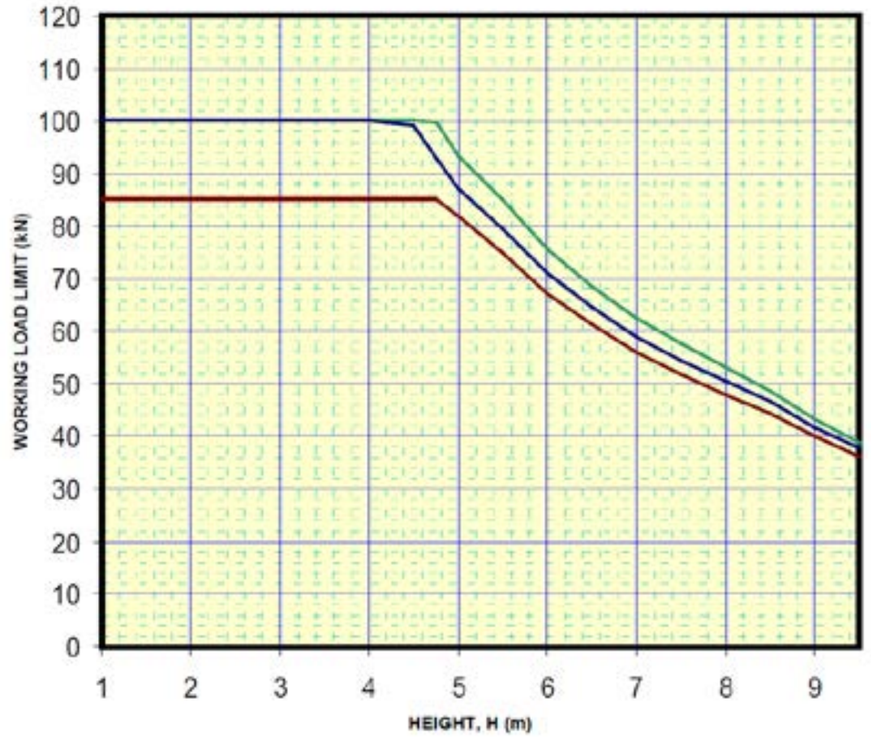




3. Working Load Limits (WLL)

Slim-Max Soldier Axial Working Load Limit (Eccentricity In XX Axis)



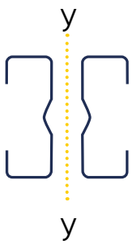


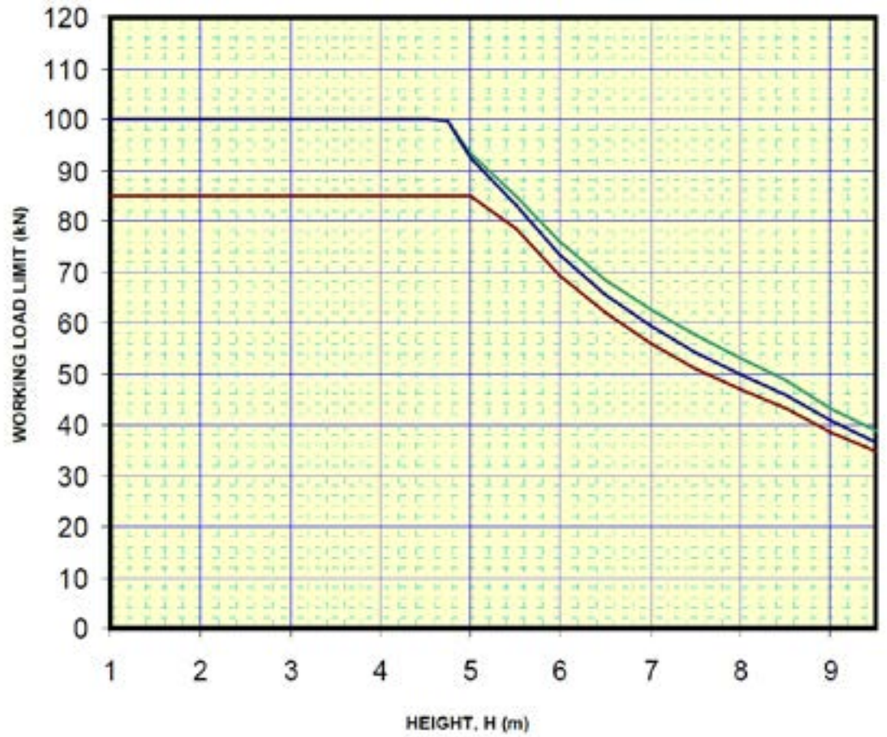
Notes:

1. Maximum capacity is with component configured as shown, capacity may be limited by other components. Users shall check and ensure all components in the system have sufficient capacities.
2. Fixing at the base and top plates to be suitably capable of transferring loads. Theoretical model is pinned at each end.
3. Maximum capacity is with components in working condition. Contact Acrow Engineering if components are damaged during site use.
4. Initial eccentricity due to the possibility of the strut being set L/400 out of plumb (about the XX axis) has been considered for all eccentricities of load.

3. Working Load Limits (WLL)

Slim-Max Soldier Axial Working Load Limit (Eccentricity In YY Axis)





Notes:

1. Maximum capacity is with component configured as shown, capacity may be limited by other components. Users shall check and ensure all components in the system have sufficient capacities.
2. Fixing at the base and top plates to be suitably capable of transferring loads. Theoretical model is pinned at each end.
3. Maximum capacity is with components in working condition. Contact Acrow Engineering if components are damaged during site use.
4. Initial eccentricity due to the possibility of the strut being set L/400 out of plumb (about the XX axis) has been considered for all eccentricities of load.

3. Working Load Limits (WLL)

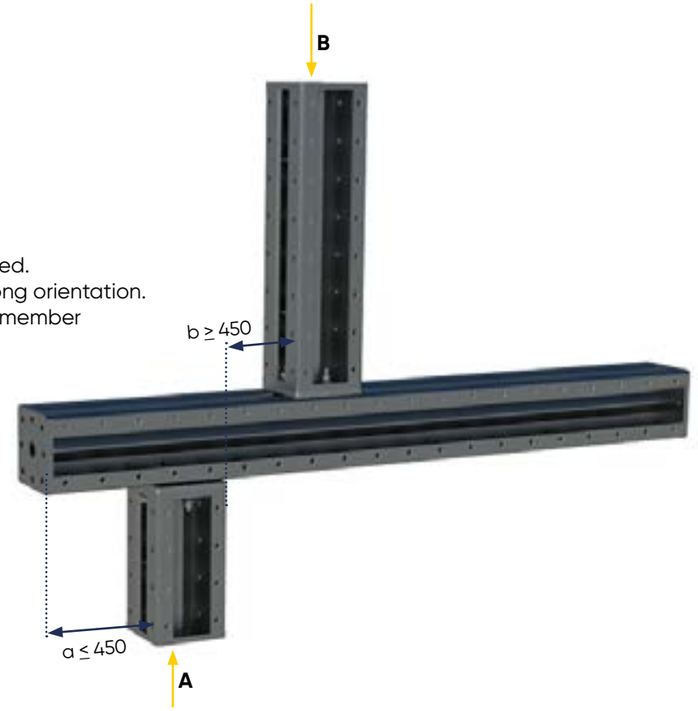
End Plate Adapter

Prop body bearing capacity:

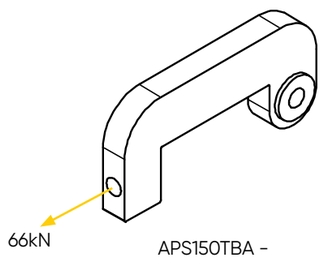
Case A- Exterior flange loading
- Compression –157kN
- Tension – 80kN

Case B- Internal flange bearing
- Compression – 334kN
- Tension – 80kN

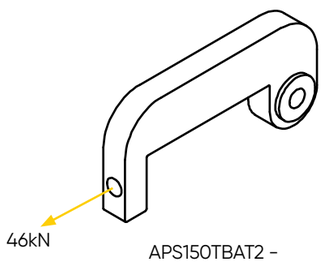
- Minimum bearing length 300mm.
- Both flanges must be evenly loaded.
- Prop body must be used in its strong orientation.
- Distance to end plate or another member



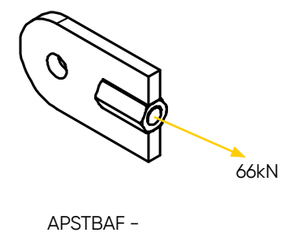
Tie Bar Adapters



APS150TBA -
Powershore 150 Tie Bar
Adapter Type 1



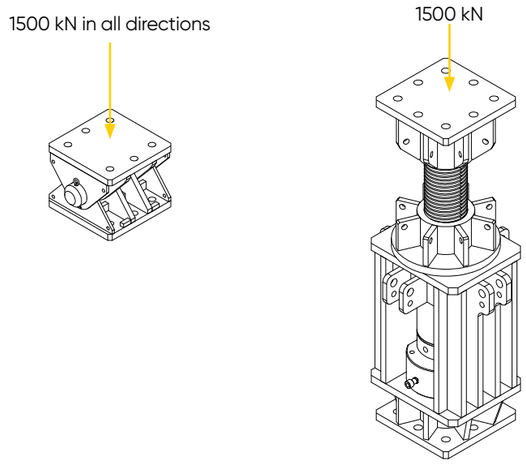
APS150TBAT2 -
Powershore 150 Tie Bar
Adapter Type 2



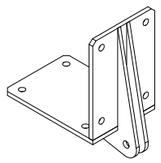
APSTBAF -
Tie Bar Adapter Fixed

3. Working Load Limits (WLL)

Raking Bracket and Hydraulic Jack WLL

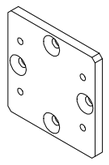


Brace Adapter WLL



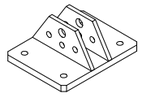
Capacity (WLL)	90kN Tension, 0 - 90°

End Plate Adapter WLL



Shear:	158kN
Bending (connect to prop lips):	3.5kNm
Bending (connect to prop flanges):	8.0kNm
Comb1 (connect to prop lips):	79kN(V)+3.5kNm(M)
Comb2 (connect to prop flanges):	79kN(V)+8.0kNm(M)

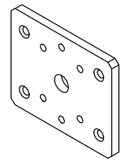
Prop / Turnbuckle Adapter WLL



0-180° (connect to prop flanges):	50kN total resultant Tension/ Compression on lugs
0-180° (connect to prop lips):	30kN total resultant Tension/ Compression on lugs

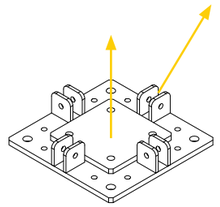
3. Working Load Limits (WLL)

Soldier Adapter WLL



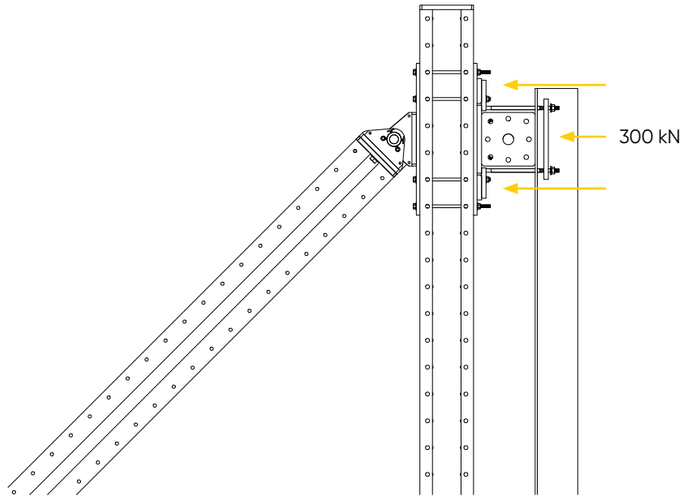
Shear:	158 kN
Bending (connect to prop lips)	3.5 kNm
Bending (connect to prop flanges)	8.0 kNm
Compression (connect to prop lips)	87.7 kN
Compression (connect to prop flanges)	126.1 kN
Tension (connect to prop lips)	60 kN
Tension (connect to prop flanges)	80 kN
Comb1 (connect to prop lips)	79kN(V)+3.5kNm(M)
Comb2 (connect to prop flanges)	79kN(V)+8.0kNm(M)
Comb1 (connect to prop lips)	79kN(V)+60kN(T)
Comb2 (connect to prop flanges)	79kN(V)+80kN(T)

Jack Brace Adapter WLL



Capacity on lugs (WLL)	90kN Tension, 0-90°
Tension	158kN

Waler Brackets WLL



4. SYSTEM DETAILS

4. System Details

System Overview

The Powershore 150 system consists of five major components designed to be joined using M24 G10.9 bolts including a range of adapters:

1. 100mm to 2400mm Props/Beams
2. 1500kN Screw Jack
3. Raking Bracket
4. 1500kN Hydraulic Jack
5. Adapters:
    - Brace Adapter
    - Prop / Turnbuckle Adapter
    - Tie Bar Adapters - Type 1 & 2
    - Jack Brace Adapter
    - Soldier Adapter/Plate
    - End Plate Adapter
    - Powershore 150 Spanner
    - Waler Bracket Adapters - Type 1 & 2

The range of adapters are designed to enable the bracing of the Powershore 150 props, bolting of vertical/ horizontal props and to enable the connection to Acrow's range of shoring systems such as the Slim-max soldier.

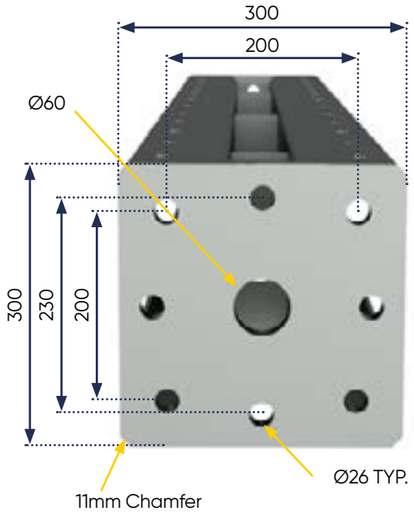
4. System Details

Prop / Beams

Acrow's Powershore 150 offers a range of props/beams from 100mm to 3000mm high. The prop's section consists of two lipped channels Grade 550 steel sections spaced apart by battens and welded to 25mm thick Grade 450 steel end plates.

The hole patterns in the end plates enable the positive and direct bolting of props/beams to achieve a desired height and length, and to connect to the Screw and Hydraulic jacks. Additional hole patterns in the flanges of the prop sections enable the direct connection of brace members and the remaining Powershore 150 components.

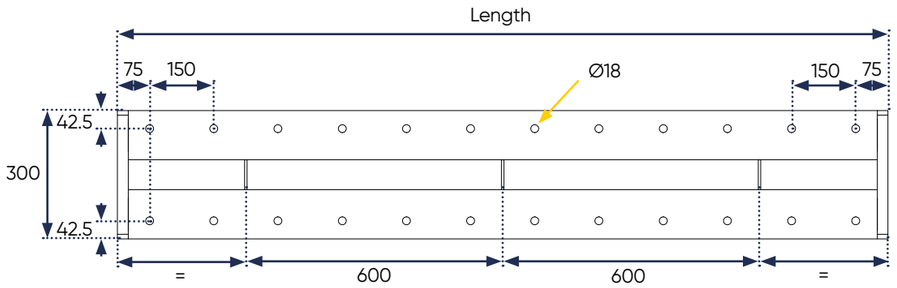
The Powershore 150 props have been designed to resist loads in bending, tension, compression and a combination of these actions. Connection strength may be increased by adding bolts and/or splice plates. These actions will be transferred when components of the Powershore 150 system are bolted together. The End Plate Adapter is designed for the prop end plate connection to another Powershore 150 prop side wall.



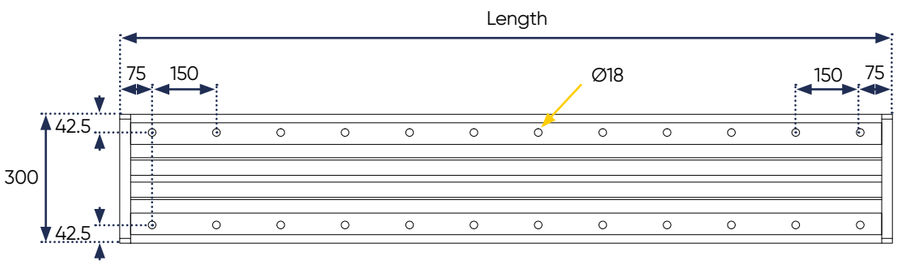
4. System Details

Prop / Beams

Acrow Powershore 150 offers a range of props/beams from 100mm to 2400mm high. The prop's section consists of two lipped channels Grade 550 steel sections spaced apart by battens and welded to 25mm thick Grade 450 steel end plates. A 25mm Packing Plate can be used to accommodate prop height variances in multiples of 25mm.



Flange View



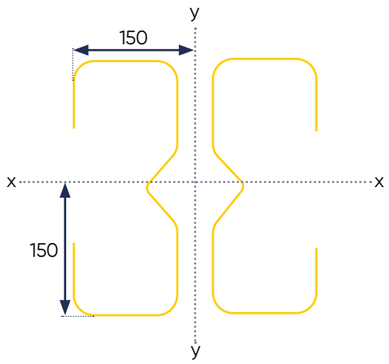
Lip View

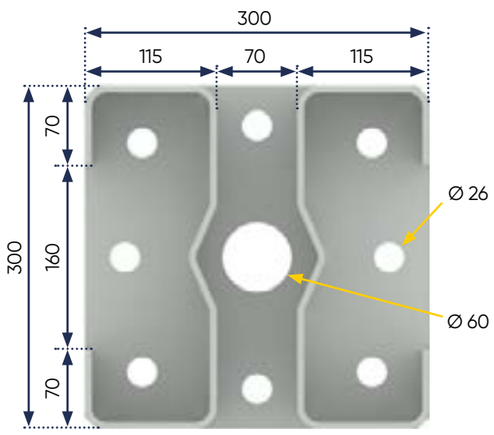
4. System Details

Prop / Beams Section Properties

The table below outlines the various section properties for the Powershore 150 props/beams.

PROPERTY			VALUE
A	Area	x 10^3 mm^2	6.179
Ixx	Second moment of area (x axis)	x 10^6 mm^4	77.80
Iyy	Second moment of area (y axis)	x 10^6 mm^4	46.40
Zxx	Section modulus (x axis)	x 10^3 mm^3	518.69
Zyy	Section modulus (y axis)	x 10^3 mm^3	309.32
J	Torsion constant	x 10^3 mm^4	166.60
Rx	Radius of gyration (x axis)	mm	122.84
Ry	Radius of gyration (y axis)	mm	86.65
Fy	Yield stress	MPa	550
E	Young's modulus	GPa	200
ΔN	Axial shortening (per meter length)	x 10^{-4} mm/kN/m	6.8

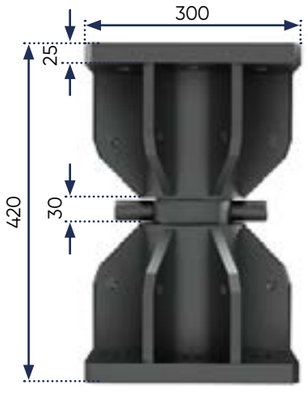


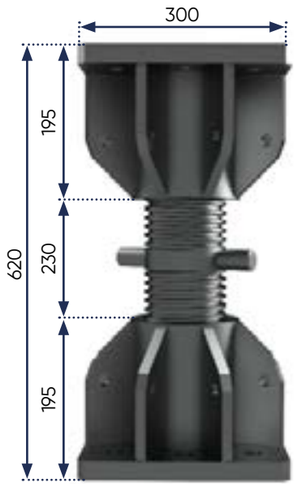


4. System Details

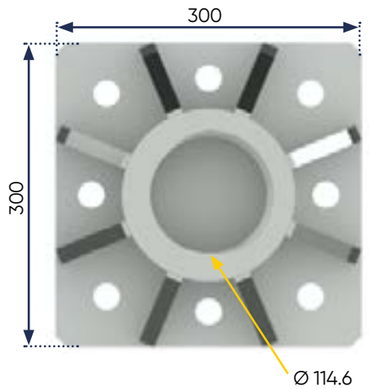
Screw Jack

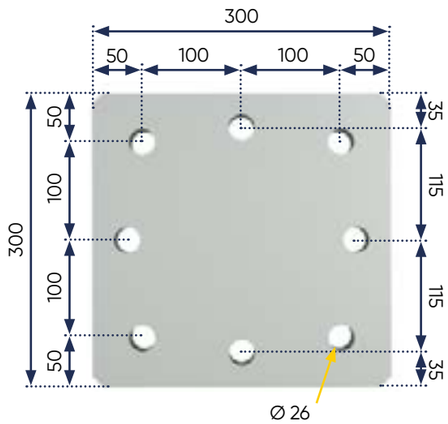
The Screw Jack is designed to interface with the Powershore 150 Prop section and is suitable for a 1500kN WLL at full extension. The screw jack connects to the Powershore 150 Prop / Beam Section via 8 x M24 x 100mm GR 10.9 bolts, nuts and washers.





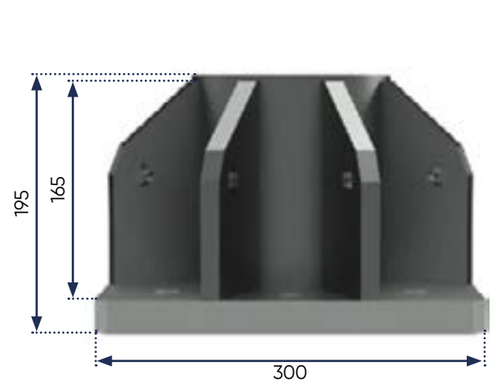
The Screw Jack's bases are identical in geometry, except the ACME thread direction, to facilitate the Screw Jack mechanism. One has a Right-Hand Thread and the other has a Left-Hand Thread.

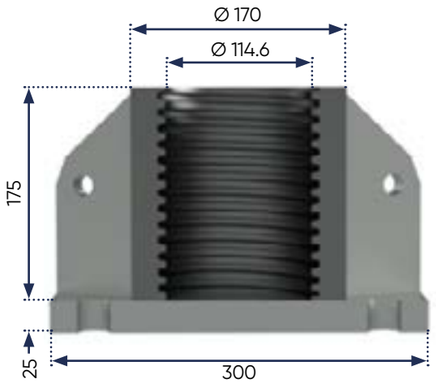




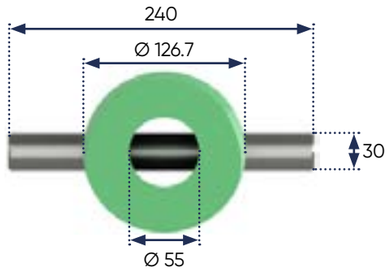
4. System Details

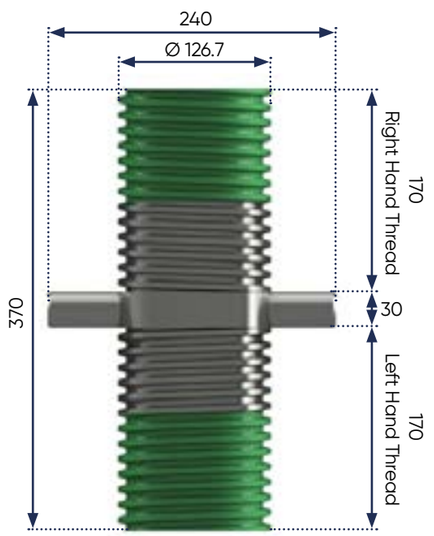
Screw Jack

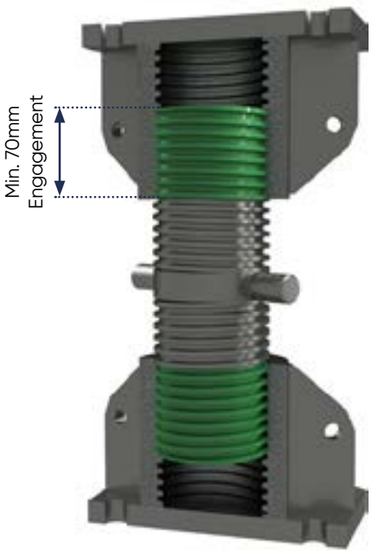




To ensure the Screw Jack maintains a safe 1500KN WLL, a minimum 70mm thread engagement is required on both ends of the shaft. The 70mm is marked in Green on both ends of the Ø126.7 ACME thread screw.







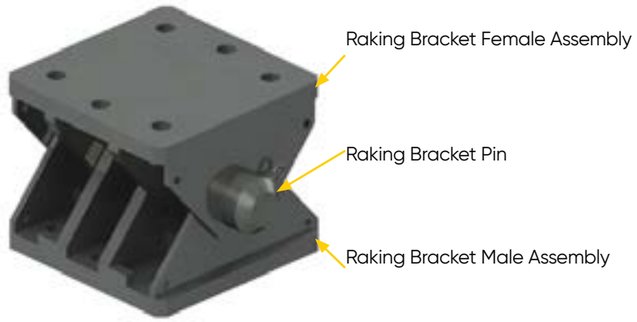
4. System Details

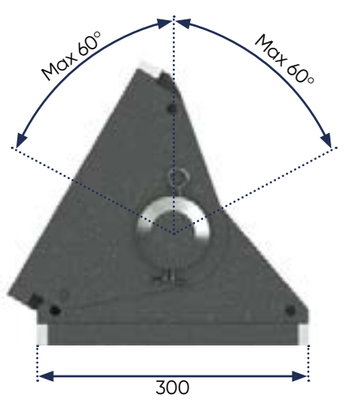
Raking Bracket

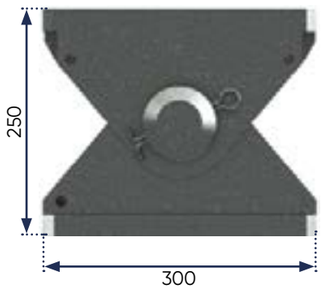
The Raking Bracket is designed for connection to the Powershore 150 Prop / Beam Section via 6 x M24 x 250mm GR 10.9 bolts, nuts and washers.
Axial compression capacity at 0 eccentricity and 0 degree pivoting angle 'a':

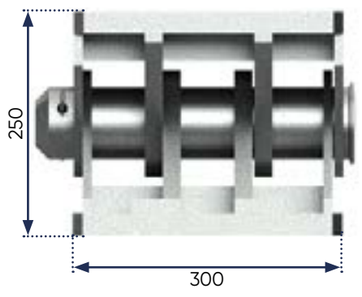
- WLL for raker webs parallel to beam webs: 1500kN
- WLL for raker webs perpendicular to beam webs: 900kN

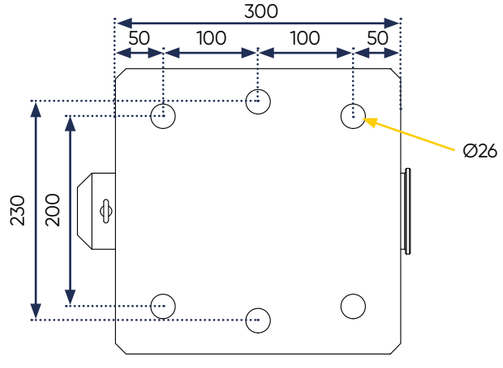
Allowed applied force directions shall be within the same plane of the raker webs.









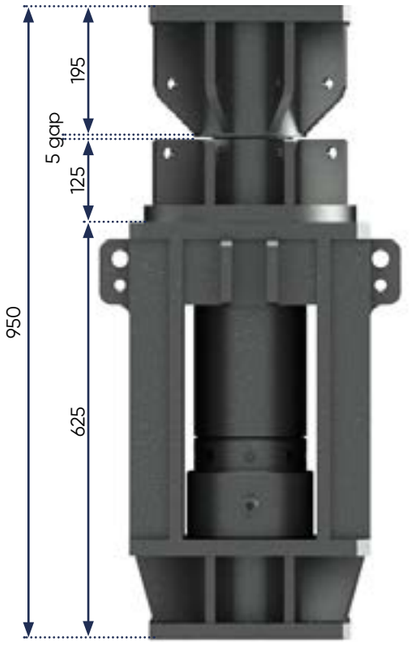


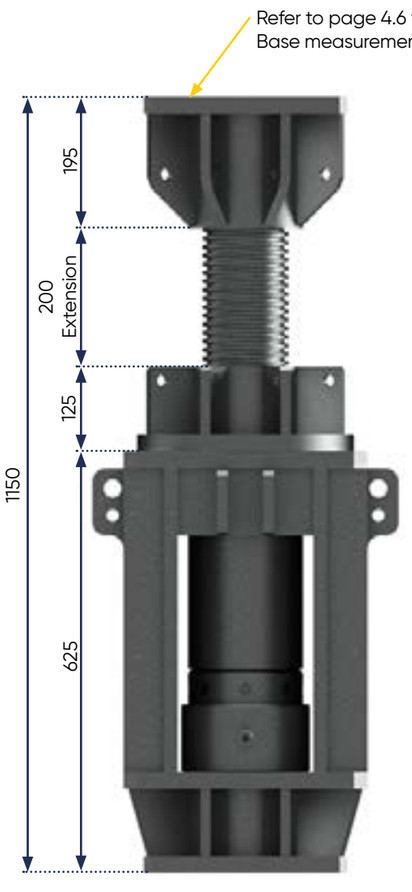
4. System Details

Hydraulic Jack

The Hydraulic Jack unit is designed to suit the 150 tonne RFJ-1500 Durapac Jack or similar supplied by others. It connects to the Powershore 150 Prop / Beam Section via 8 x M24 x 100mm GR 10.9 bolts, nuts and washers.

- Ø126.7 acme thread screw.
- Low-profile socket may be required for double base bolt group installation using the Jack Brace Adapter.



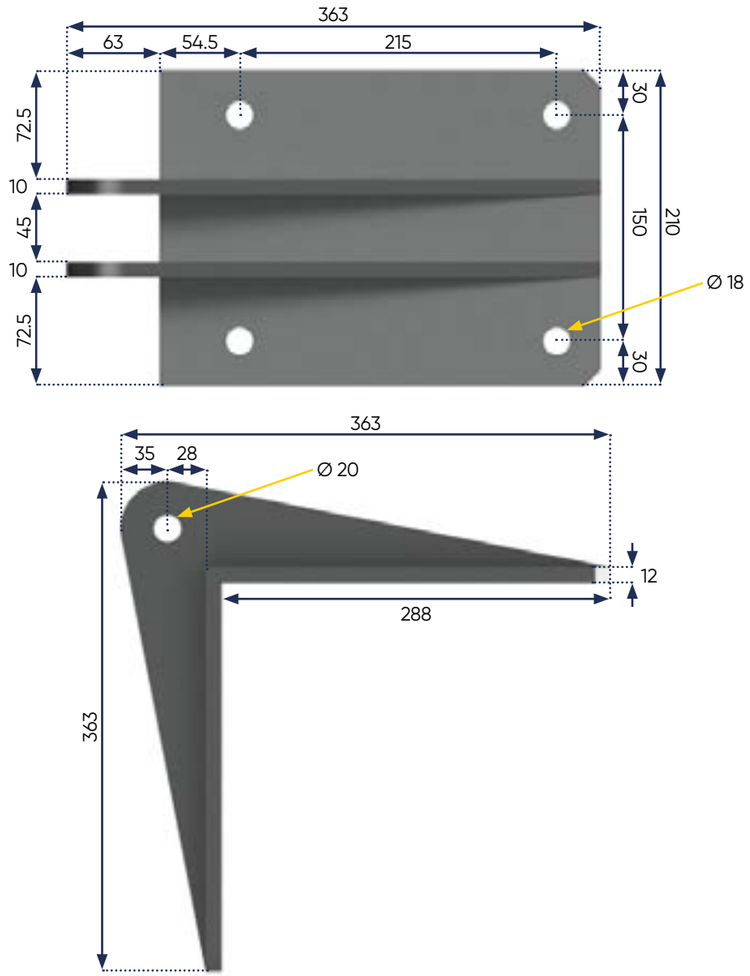


4. System Details

Brace Adapter

The Brace Adapter is designed to provide plan bracing for the Powershore 150 Props structure using a turnbuckle assembly.

- The Brace Adapter shall be connected to prop wall with 8 x M16 x 55mm GR 8.8 bolts.
- Tension force directions shall be within the same plane of the parallel lugs.
- Prop torsional rotation along its axis shall be restrained if adapter applies any torque to the prop.

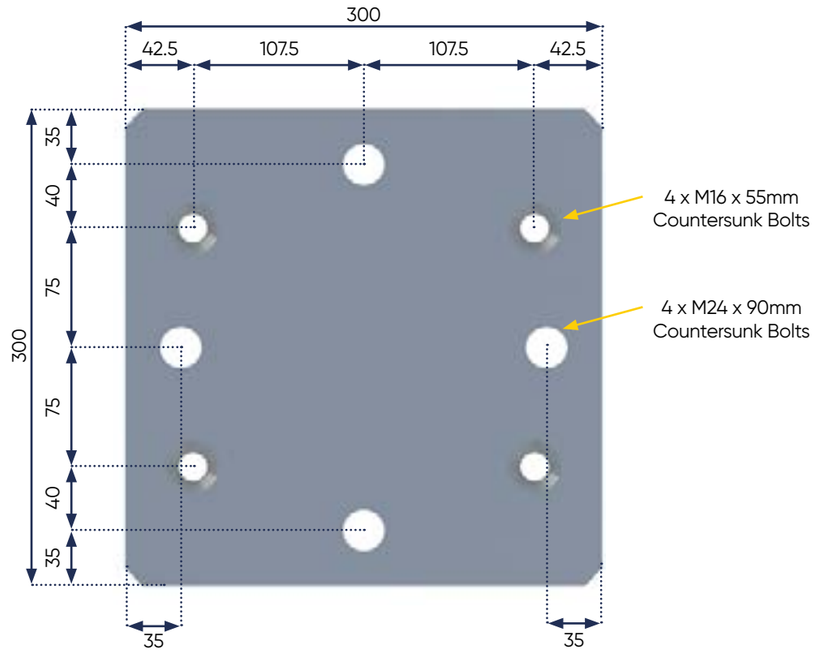


4. System Details

End Plate Adapter

The End Plate Adapter is designed for the Powershore 150 Prop end plate connection to another Powershore 150 Prop side wall. The Powershore 150 Props will be acting as a beam or a soldier.

- The End Plate adapter shall be connected to prop wall with 2 groups of countersunk bolts: 4 x M16 x 55mm GR 8.8 and 4 x M24 x 90mm GR 8.8.
- The End Plate Adapter has countersunk holes on both sides to enable the connection to the prop wall or end plate using countersunk bolts.

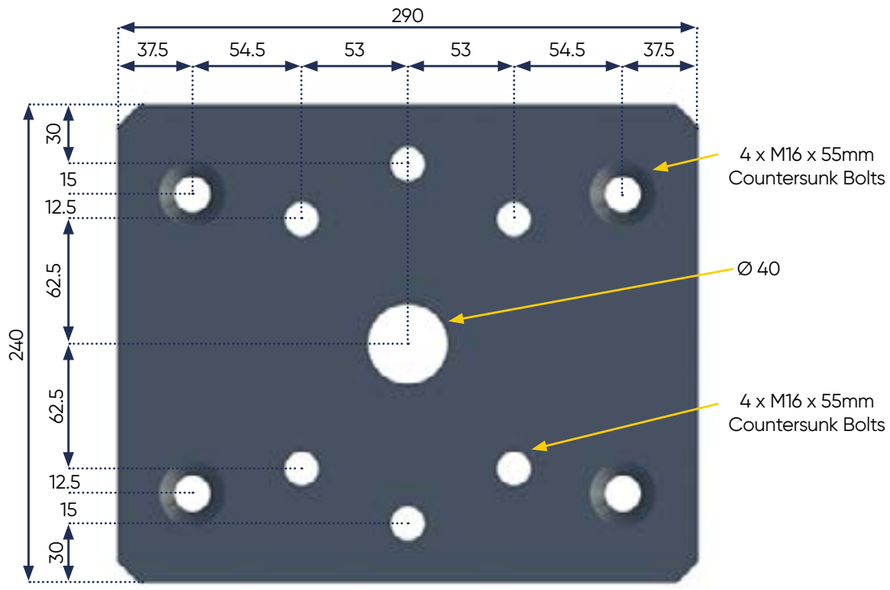


4. System Details

Soldier Adapter

The Soldier Adapter is designed for the Slim-Max soldier end plate connection to the Powershore 150 prop side wall.

- The Soldier Adapter shall be connected to the Powershore 150 prop side wall with countersunk bolts 8 x M16 x 55mm GR 8.8.
- The Soldier Adapter has countersunk holes on both sides to enable the connection to the prop wall or end plate using countersunk bolts.

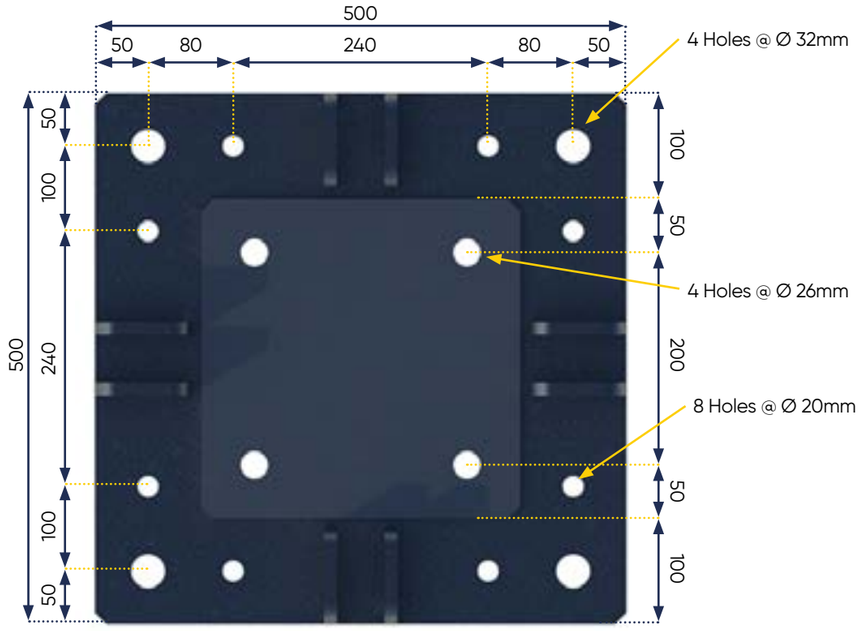


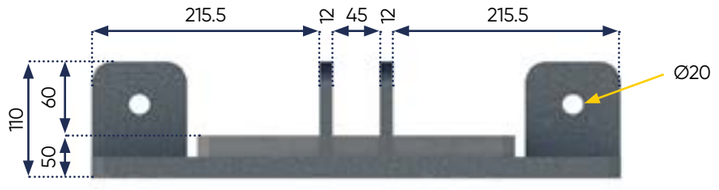
4. System Details

Jack Brace Adapter

The Jack Brace Adapter is designed for the HT Thru Tie Bar (Z-bar) brace connection to the Screw Jack (or Hydraulic Jack Unit).

- Fixing tension and shear capacities for the adapter at the footing shall be verified by others
- Tension force directions shall be within the same plane of the parallel lugs



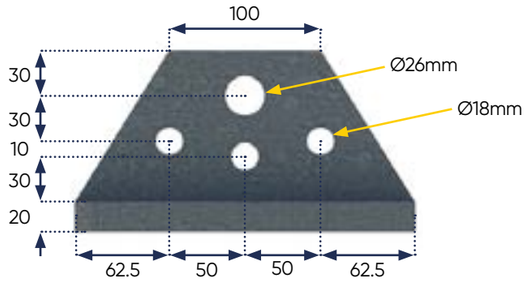


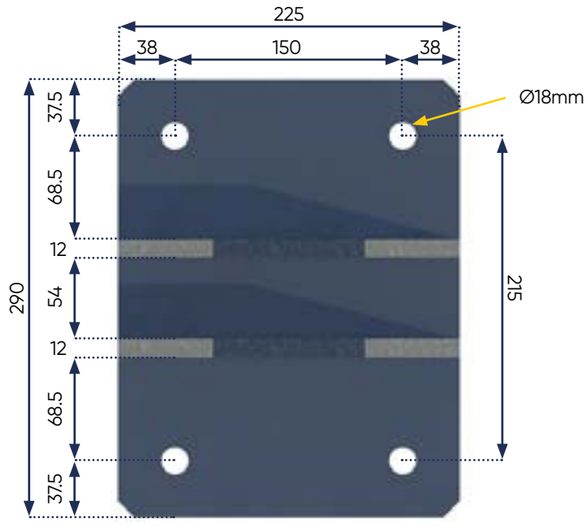
4. System Details

Prop / Turnbuckle Adapter

The Prop/Turnbuckle Adapter is designed for the Slim-max Prop or Turnbuckle connection to the prop side wall.

- Adapter shall be connected to the prop wall with 4 x M16 x 55mm GR 8.8 bolts.
- Tension/compression force directions shall be within the same plane of the parallel lugs.

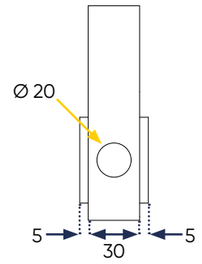


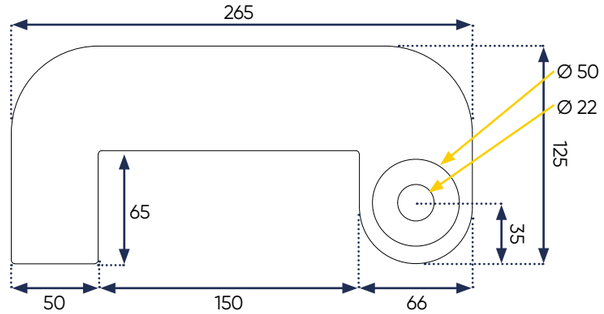


4. System Details

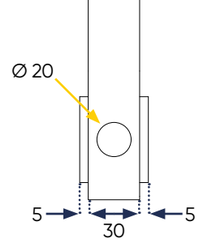
Tie Bar Adaptor Type 1

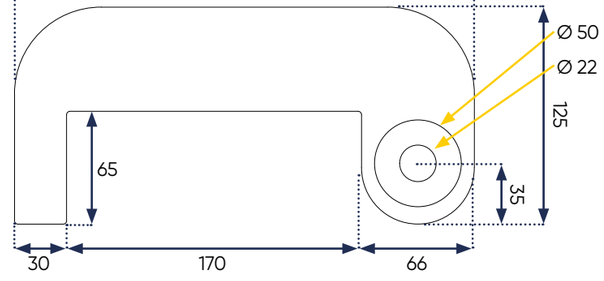
The Tie Bar Adaptor Type 1, also kNown as Z-Bar adaptor, is designed for bracing the Powershore 150 structure. The Tie Bar Adaptor Type 1 is fixed into members using D16 podger pin. A Ø15mm HT Thru Tie Bar with HT Thru Tie Hex Nut are used as bracing members.





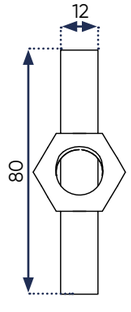
Tie Bar Adaptor Type 2

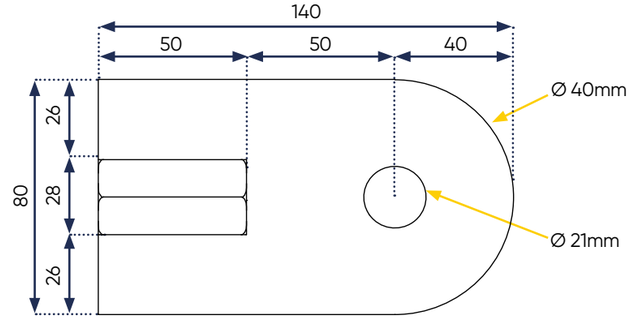




Tie Bar Adaptor Fixed

The Ø15 x 50mm HT Thru Hex nut is fully welded and part of the adaptor and is designed for bracing the Powershore 150 structure. The Tie Bar Adaptor Type 2 is fixed into members using D19 podger pin.



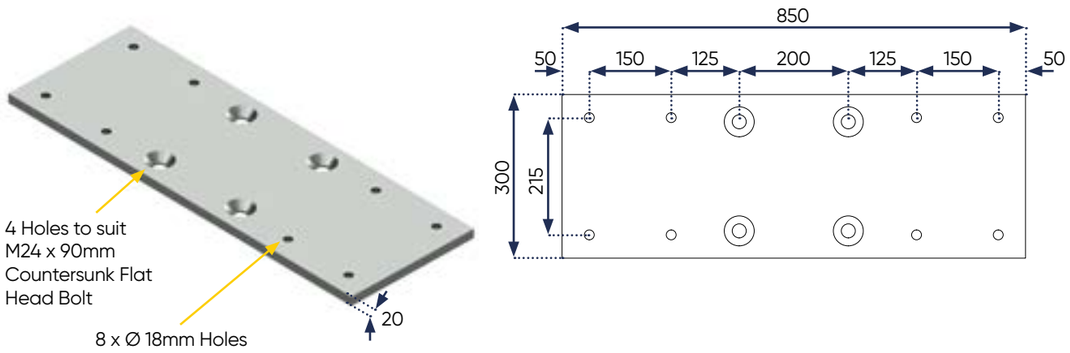


4. System Details

Waler Bracket Adapter Type 1

The Waler Bracket Adapter Type 1 is designed to sandwich the vertical Powershore 150 member and allow a point to attach the raker bracket.

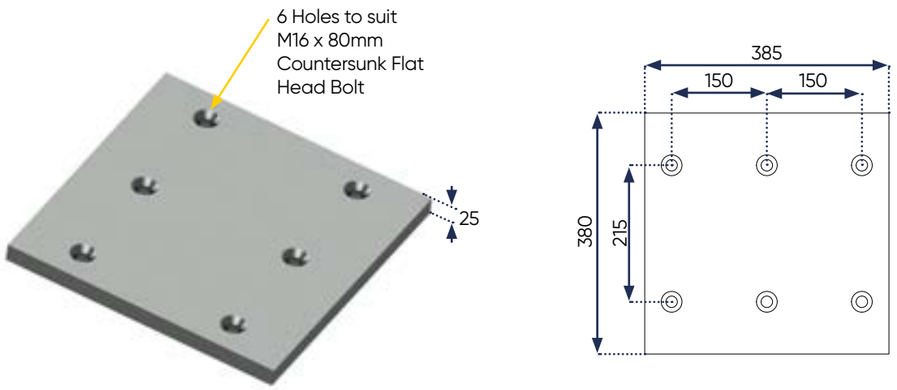
- Two individual Waler Bracket Adapter Type 1 units are bolted to each side of the Powershore 150 prop using 8 x 400mm M16 GR 8.8 Threaded rods with nuts.
- 4 x 90mm M24 GR 8.8 Countersunk set screws with nuts are used to bolt the Powershore 150 Raking Bracket and shoring assembly into the Waler Bracket Adapter Type 1.



Waler Bracket Adapter Type 2

The Waler Bracket Adapter Type 2, together with the Waler Bracket Inner Washer, is designed to fix the horizontal Powershore 150 member to the vertical Powershore 150 member.

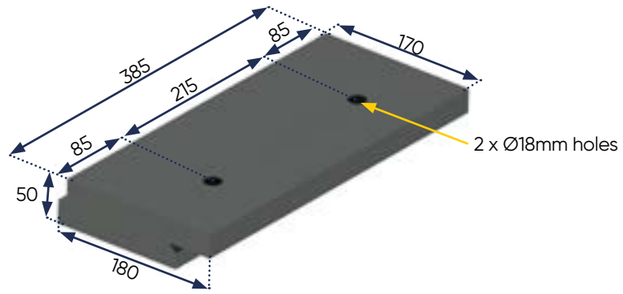
- Waler Bracket Adapter Type 2 is fixed to the Powershore 150 shoring structure using two Waler Bracket Clamp Washer.
- The Powershore Beam (waler) is bolted into the Waler Bracket Adapter Type 2 using 6 x 80mm M16 GR 8.8 Countersunk set screws with nuts.



4. System Details

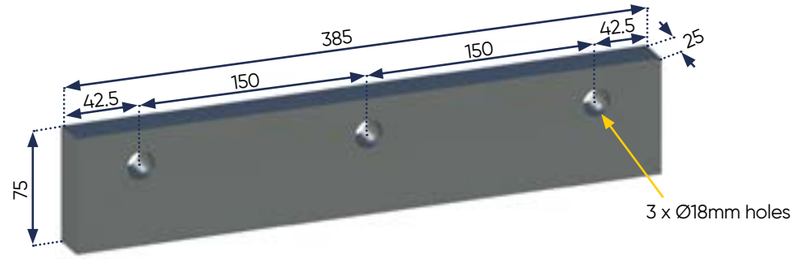
Waler Bracket Clamp Washer

The Waler Bracket Clamp Washer is designed to hold the Waler Bracket Adapter Type 2 and attach it to the Powershore 150 shoring structure.



Waler Bracket Inner Washer

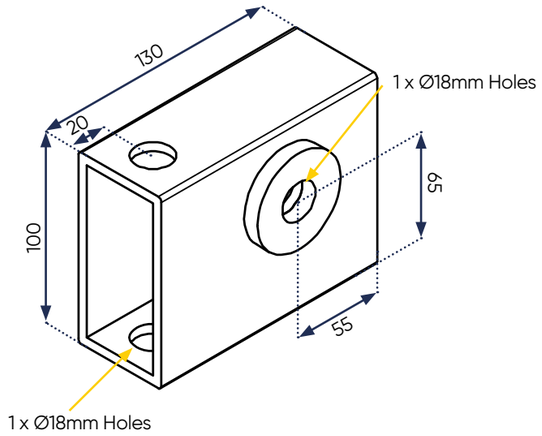
The Waler Bracket Inner Washer, together with the Waler Bracket Adapter Type 2, is designed to hold the horizontal PS150 waler. 2 x Waler Bracket Inner Washers are used to hold the horizontal PS150 waler and they are bolted to the Waler Bracket Adapter Type 2 using 6 x 80mm M16 GR 8.8 Countersunk set screws with nuts.



4. System Details

Powershore 150 Prop to Powershore 30 Prop

The Powershore 30 adapter is designed to be attached to the top of the Powershore 30 Adjustable Base and standard, with 1 x 150mm M16 GR8.8 bolts and nuts. The adapter fits to the inside of the Powershore 150 with 1 x 100mm M16 GR 8.8 bolts with nuts.

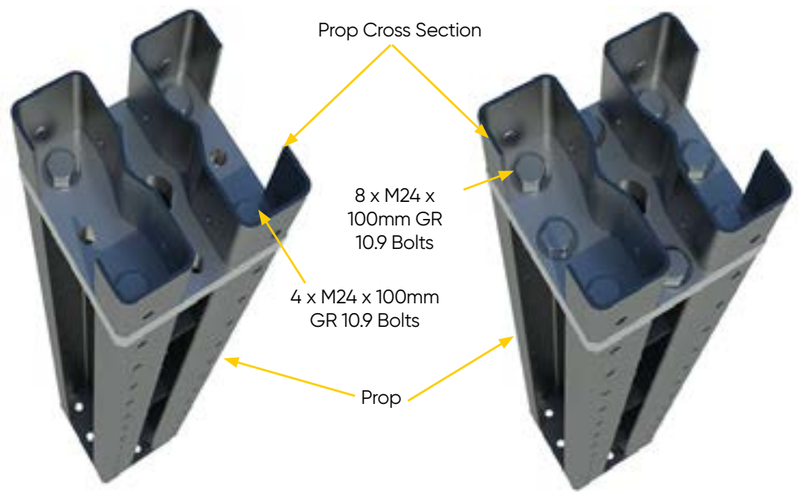


5. ASSEMBLY DETAILS

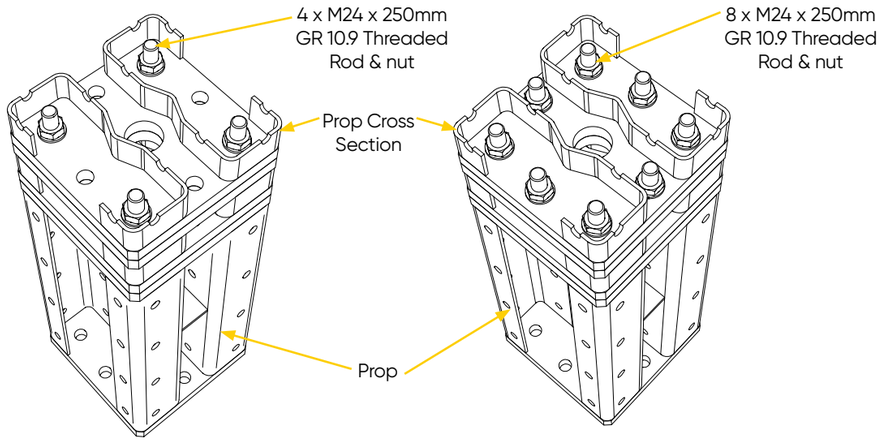
5. Assembly Details

Beam End Connections Assembly

There are two bolting configurations for the prop/beam end connections. There are four-bolt and eight-bolt pattern options providing different capacities to suit the application.



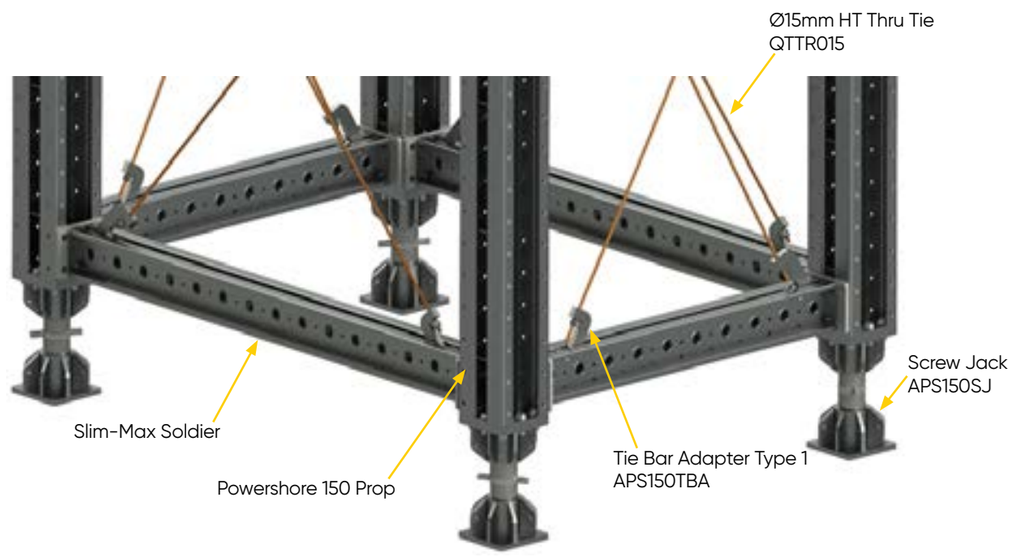
Prop → 100mm Prop → Prop Connection

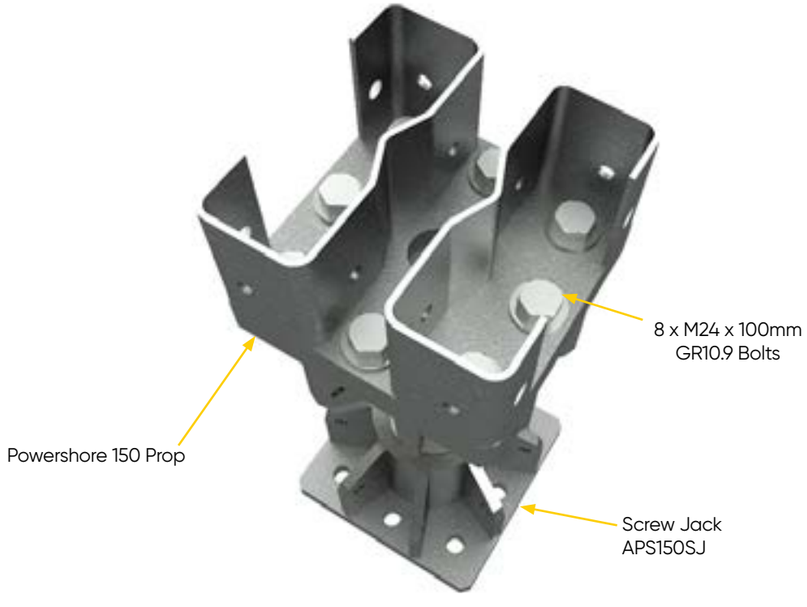


5. Assembly Details

Screw Jack Assembly

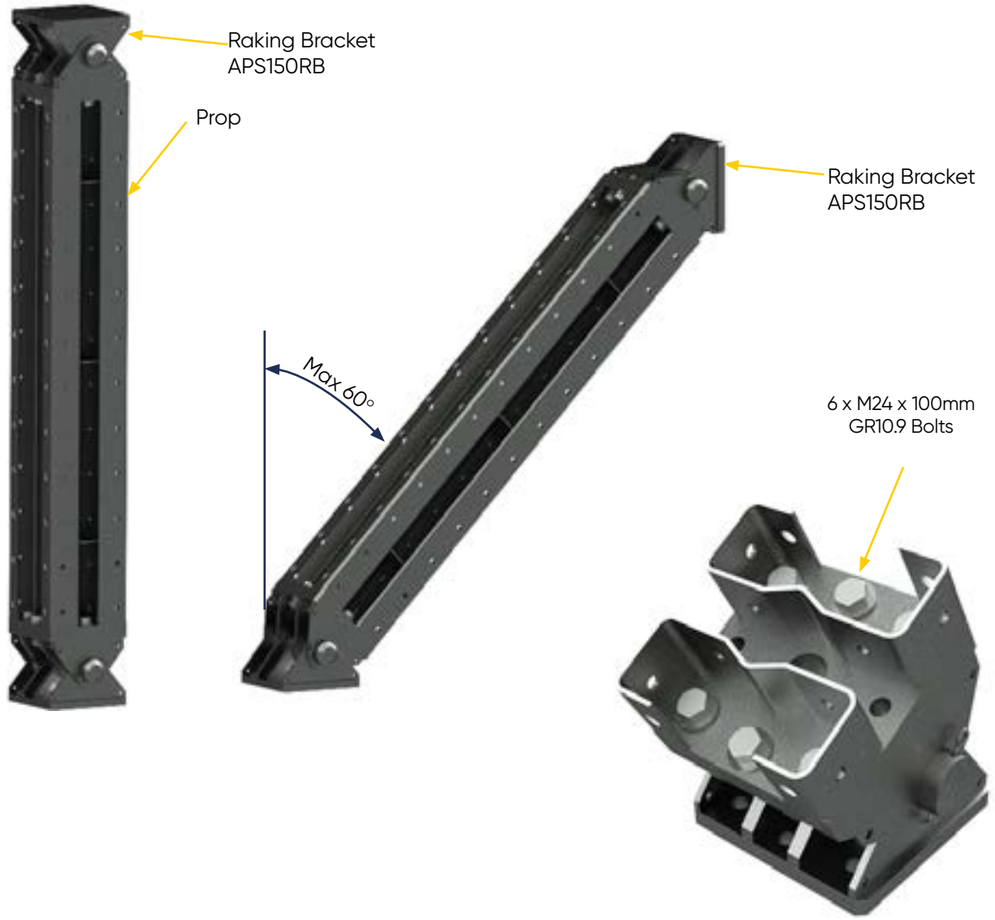
The Screw Jacks are to bear on suitable footings by others. The footing should be designed based on the applied loads. The typical configuration and bolting method of the Screw Jacks are shown below:





5. Assembly Details

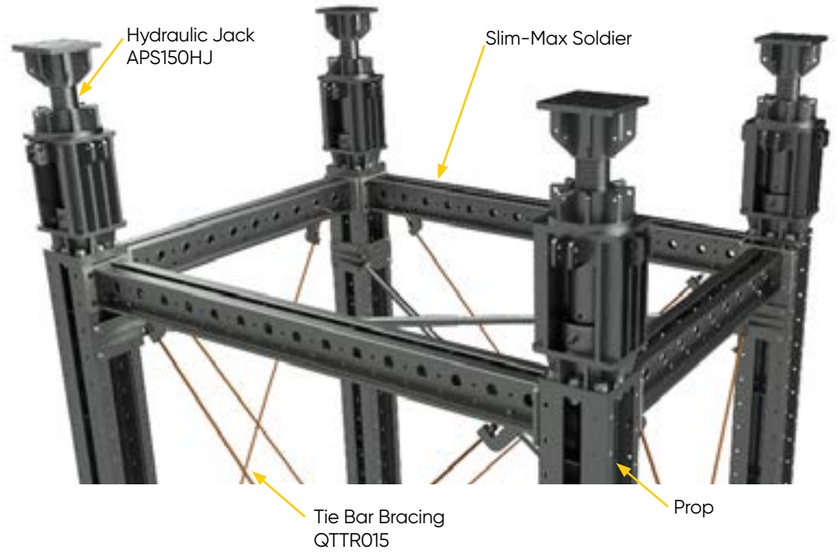
Raking Bracket Assembly

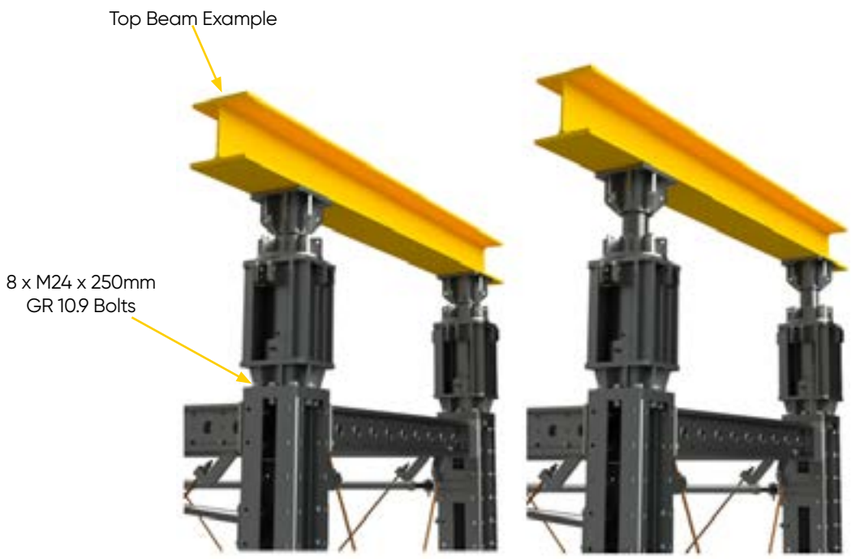


5. Assembly Details

Hydraulic Jack Assembly

The Powershore 150 Hydraulic Jack operates with a 16mm stroke and the jack has a 200mm jacking capacity at 16mm intervals.





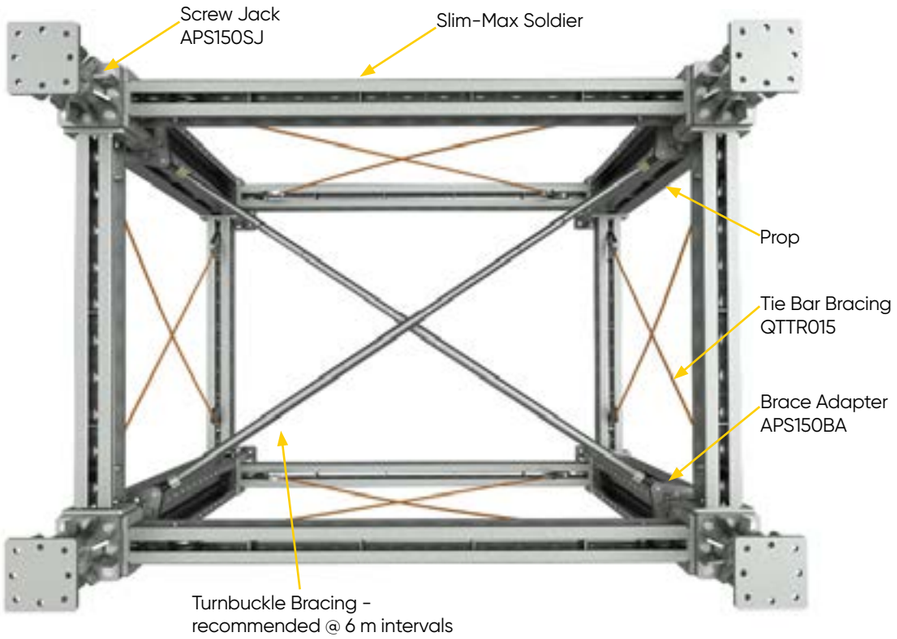
Starting the Jacking Process - Hydraulic Jack Fully Contracted

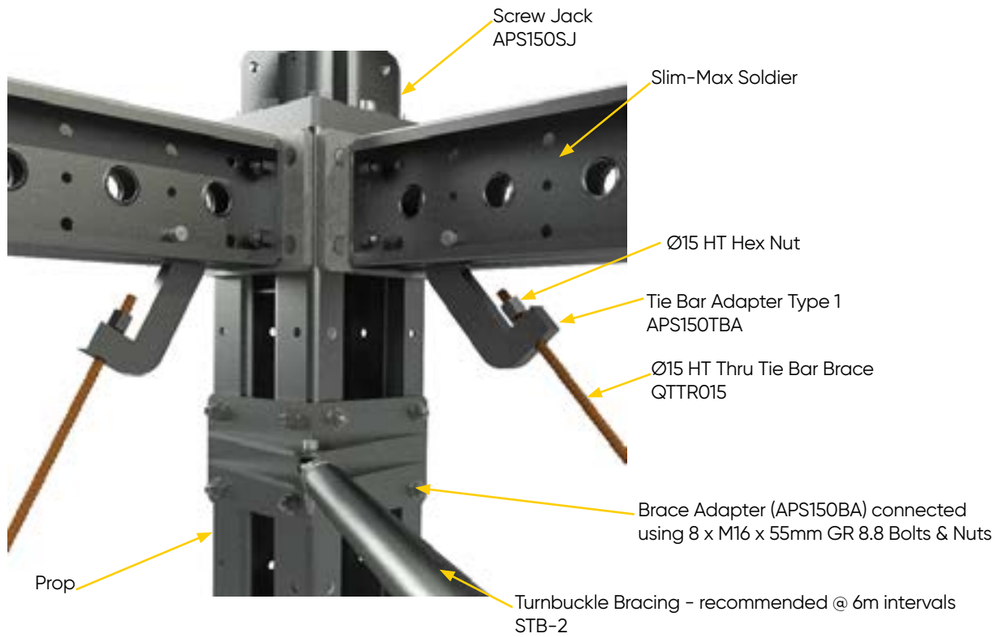
Hydraulic Jack in Operation - Fully Extended

5. Assembly Details

Brace Adapter Assembly

The typical Brace Adapter connection and brace configuration. Turnbuckle bracing is recommended at 6m intervals to maintain shape.



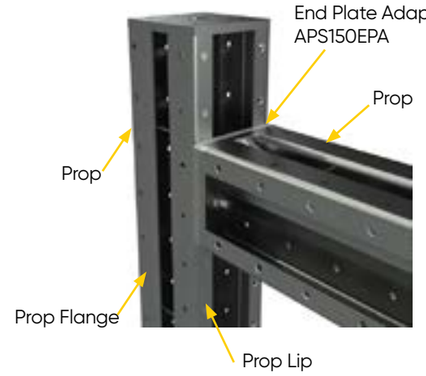


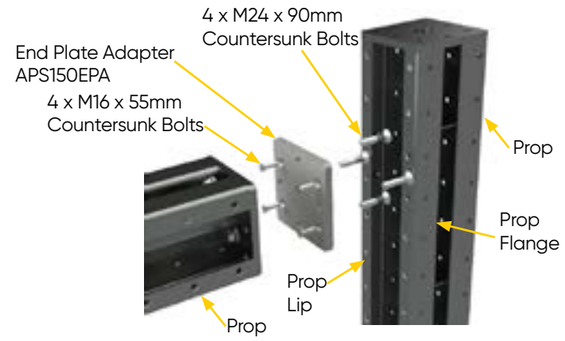
5. Assembly Details

End Plate Adapter Assembly

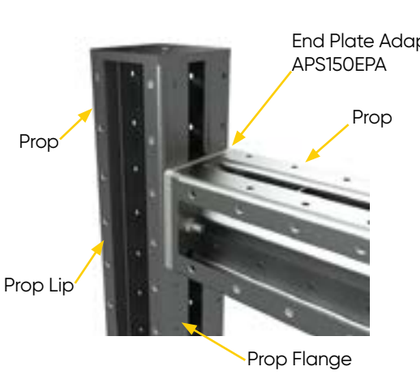
There are two methods to connect the Powershore 150 props using the End Plate Adapter.

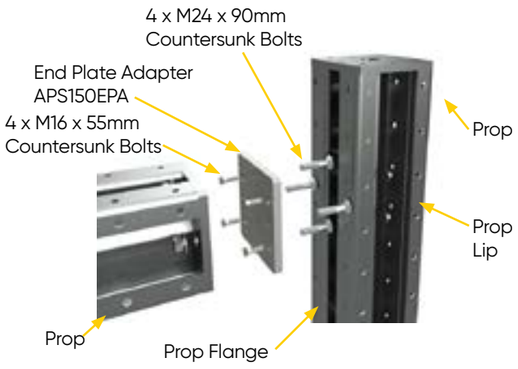
Method 1 - (a): Connecting to the Powershore 150 side wall lip.



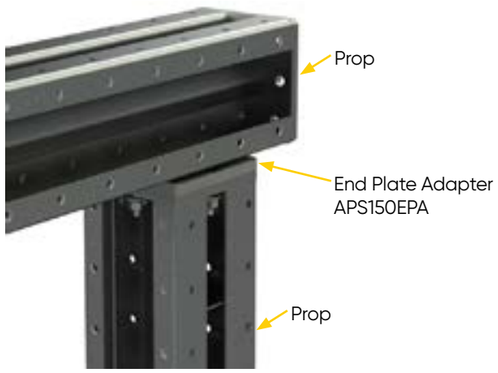


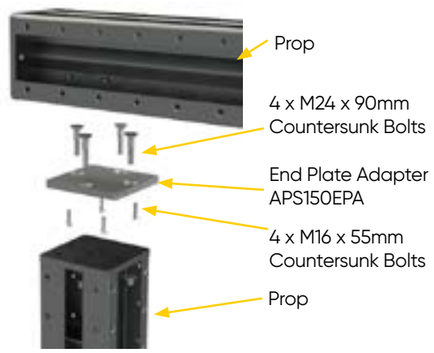
Method 1 - (b): Connecting to the Powershore 150 prop side wall flange.





Method 2: Connecting Powershore 150 beam to Powershore 150 prop end plate.



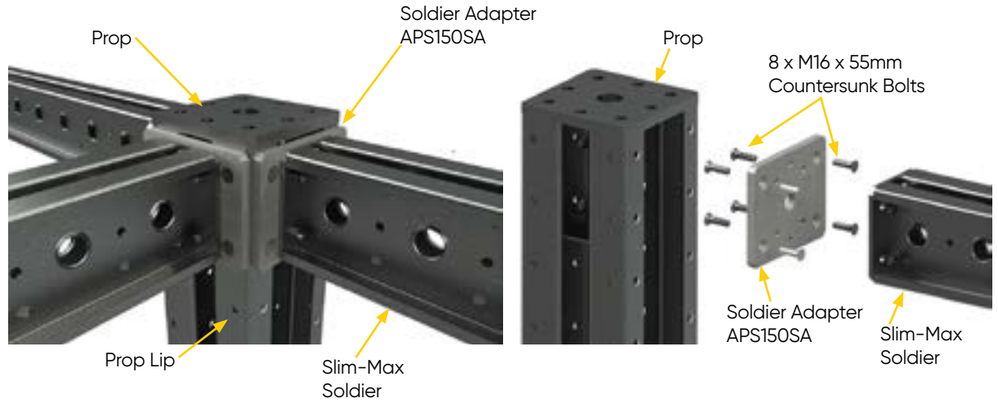


5. Assembly Details

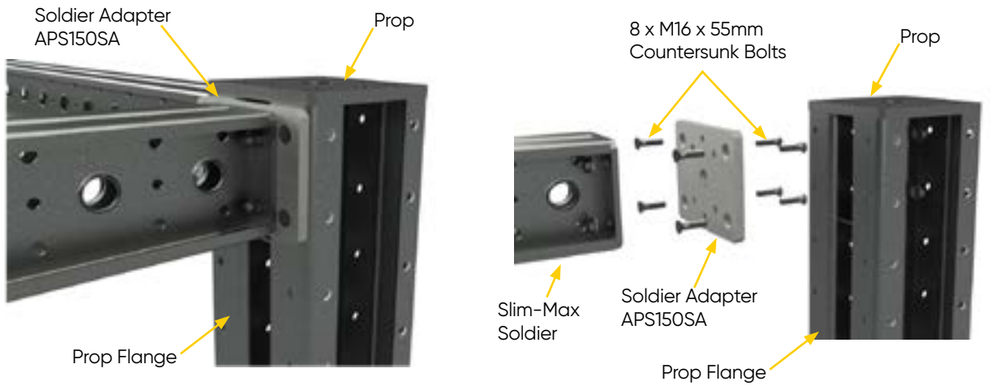
Soldier Adapter Assembly

There are two methods of connecting of the Slim-Max soldier to the Powershore 150 prop's side wall using the Soldier Adapter. The following two methods show how to install bolts to a prop lip or flange:

Method 1: Connecting Slim-Max soldier end plate to Powershore 150 prop lip:



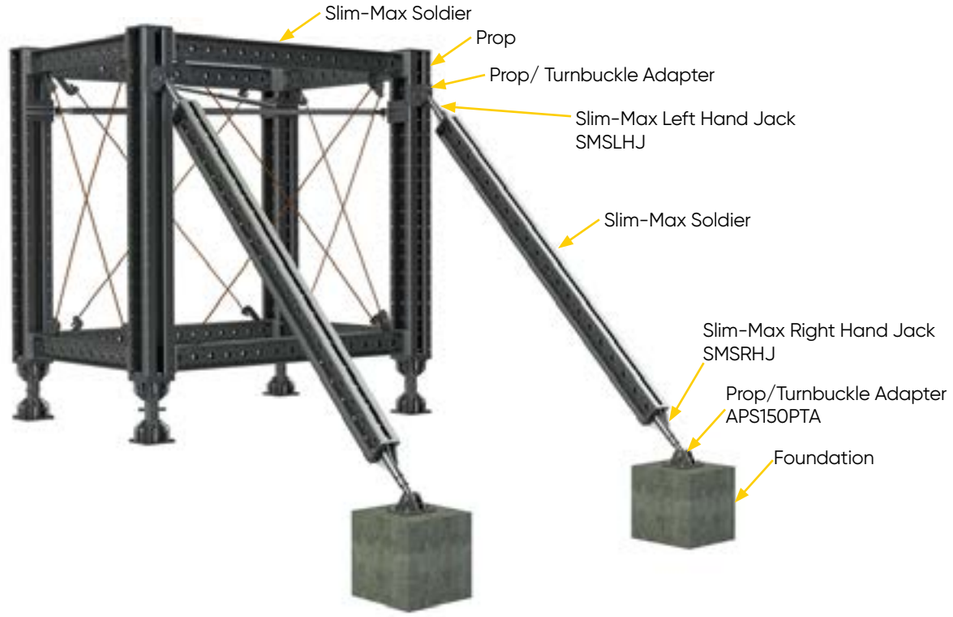
Method 2: Connecting Slim-Max soldier end plate to Powershore 150 prop flange:

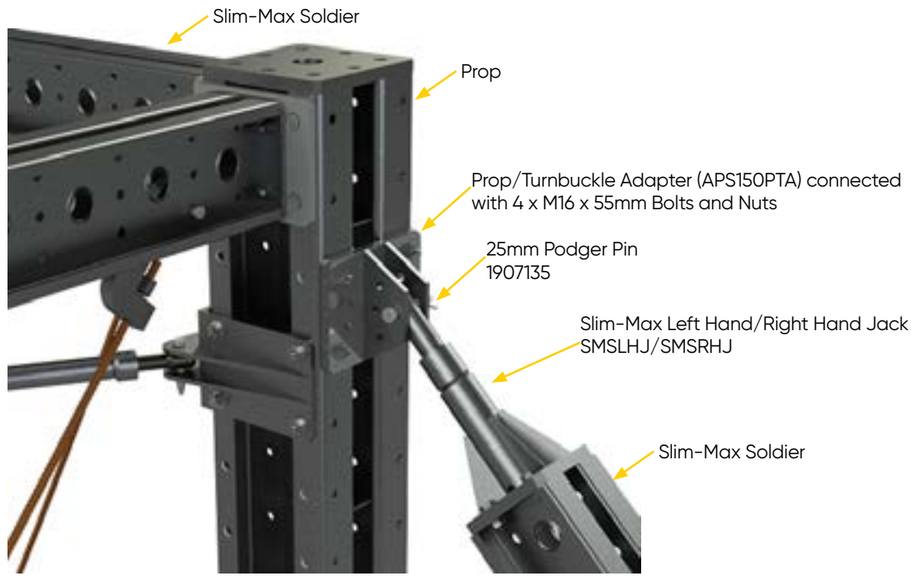


5. Assembly Details

Soldier Adapter Assembly

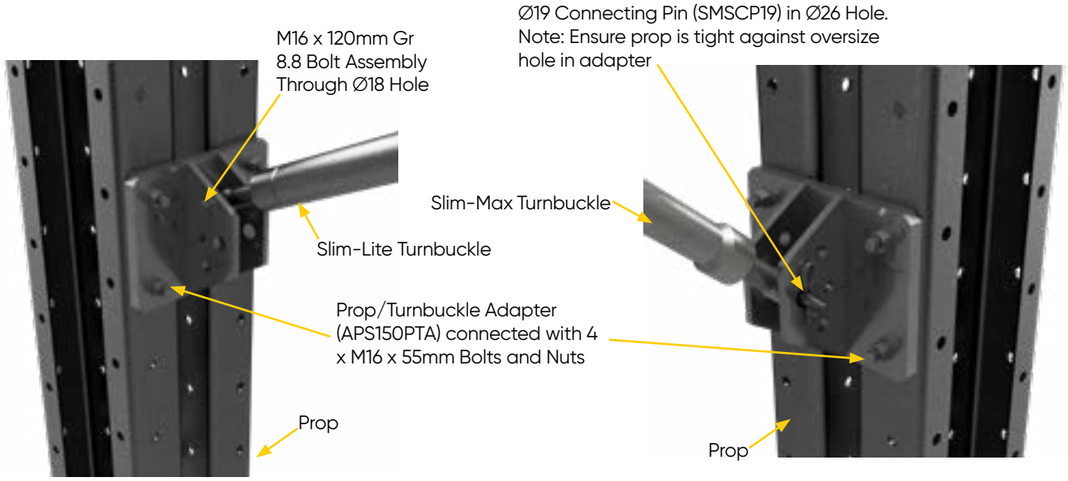
The following demonstrates the method of propping the Powershore 150 props using a Slim-Max soldier and Prop/Turnbuckle Adapter.



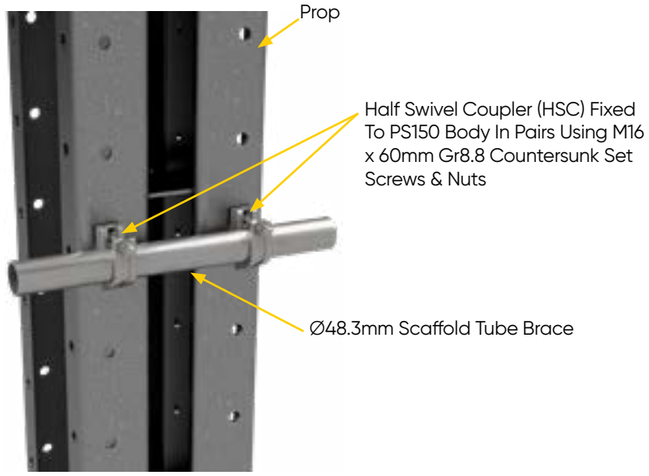


5. Assembly Details

Prop/Turnbuckle Adapter Assembly

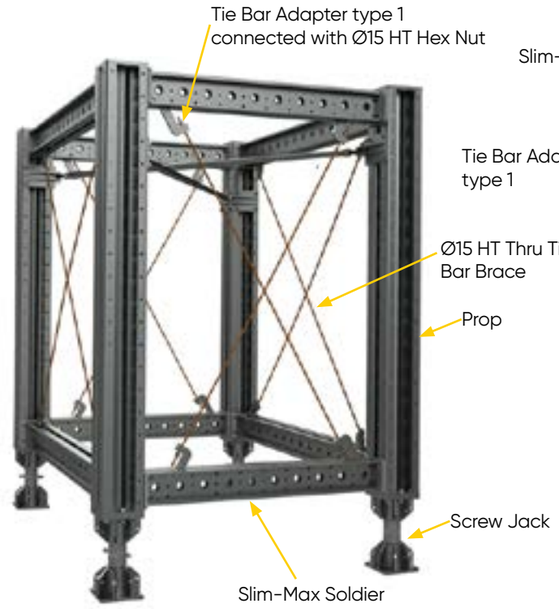


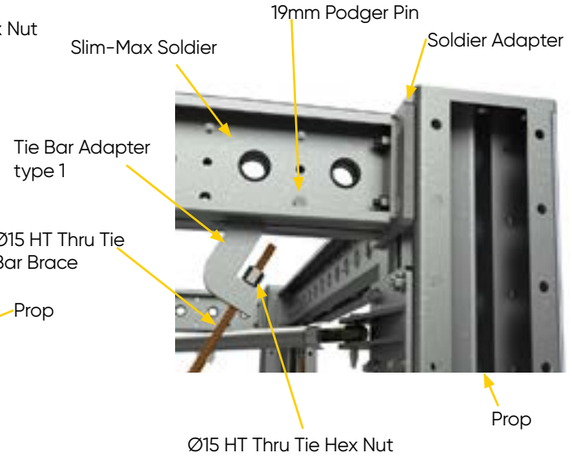
Prop/Turnbuckle Adapter Assembly

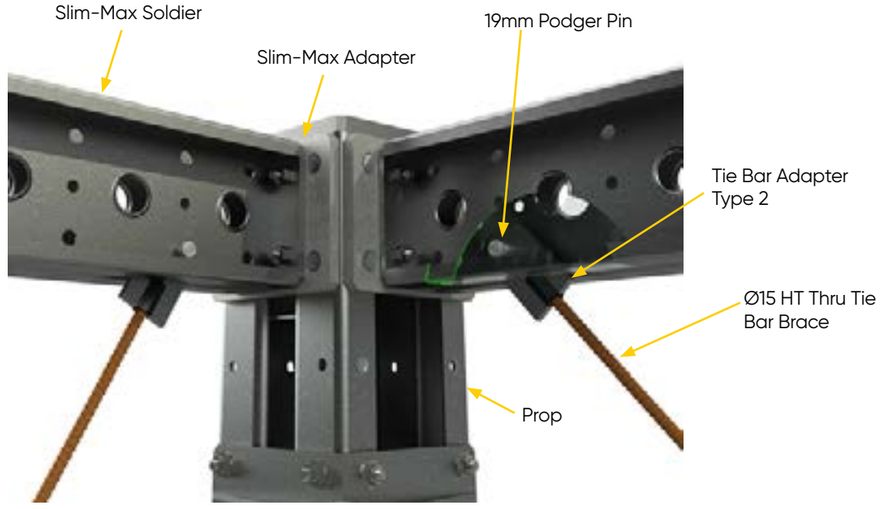


5. Assembly Details

Tie Bar Adapters

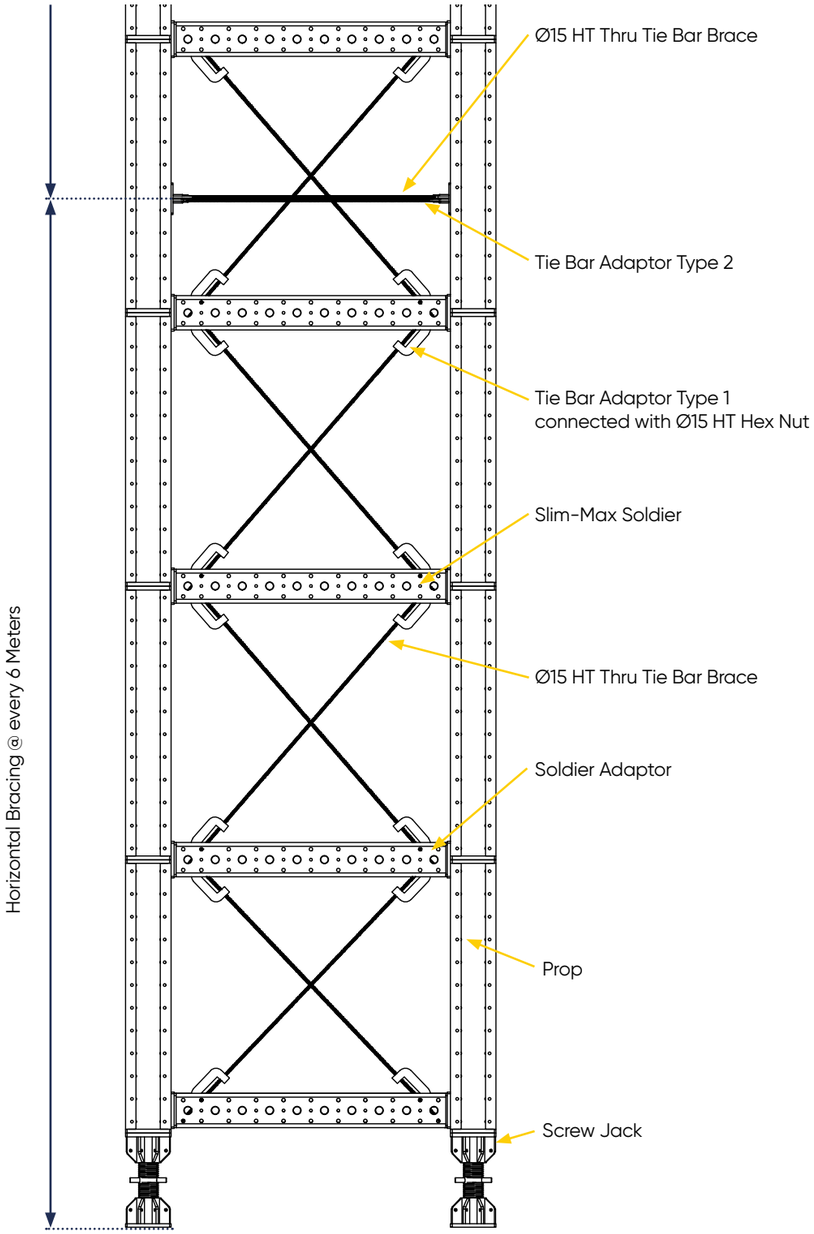






5. Assembly Details

Tower Bracing

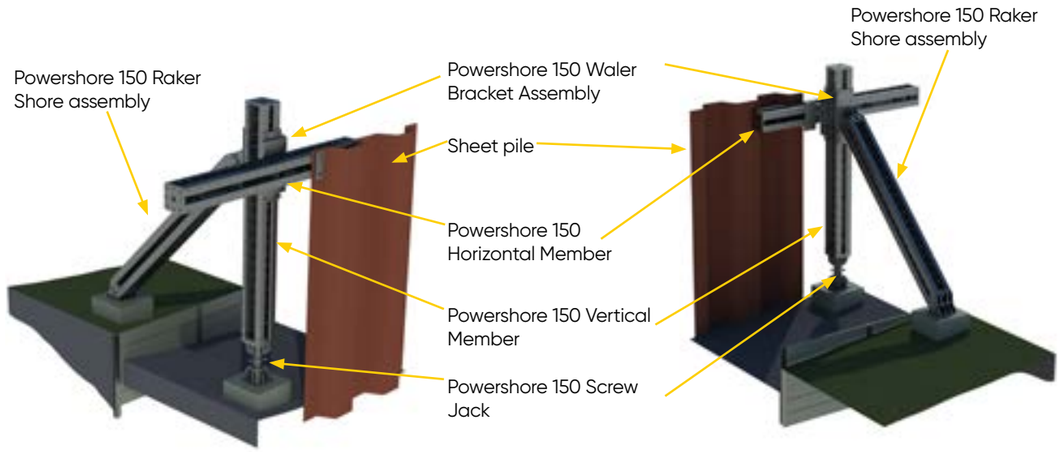


5. Assembly Details

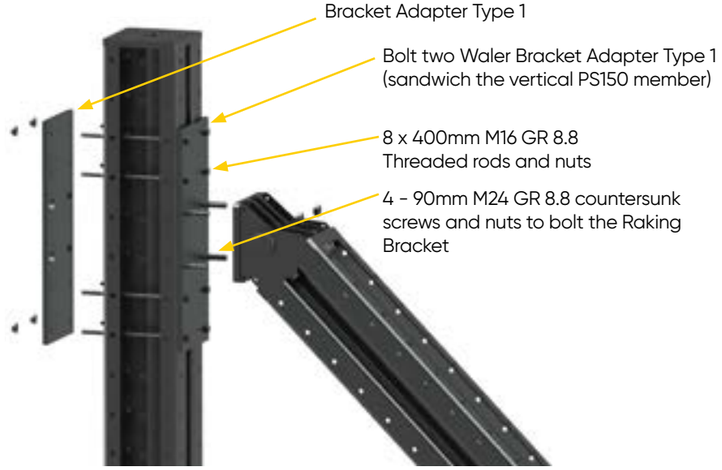
Waler Brackets Assembly

A set of brackets and washers designed to support the Powershore 150 Beam when used as a waler to support sheet pile walls or similar.

Capacity of the bracket is 300kN compression load horizontally at the raker bracket connection. Capacities of the horizontal waler and diagonal members to be checked individually with the relevant technical data.



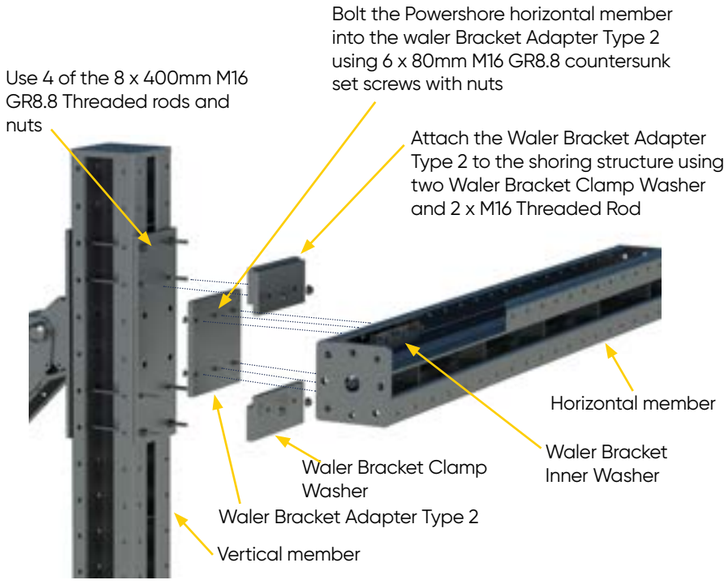
Step 1
Bolt two Waler Bracket Adapters Type 1 to the Powershore 150 Prop (Vertical Member). The two brackets Type 1 will sandwich the vertical Powershore 150 member and allow a point to attach the Powershore 150 Raker Bracket.



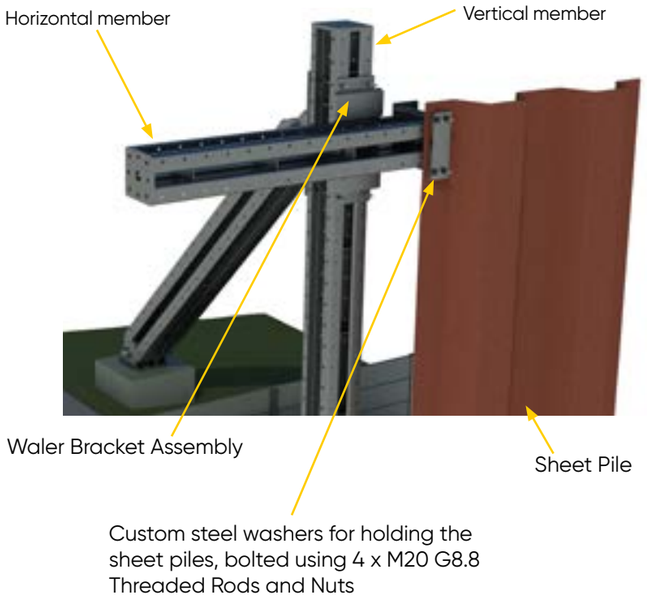
5. Assembly Details

Waler Brackets Assembly

Step 2
Fix the horizontal Powershore 150 member to the vertical Powershore 150 member using the Waler Bracket Adapter Type 2, together with the Waler Bracket Inner Washer and waler bracket clamp washer.



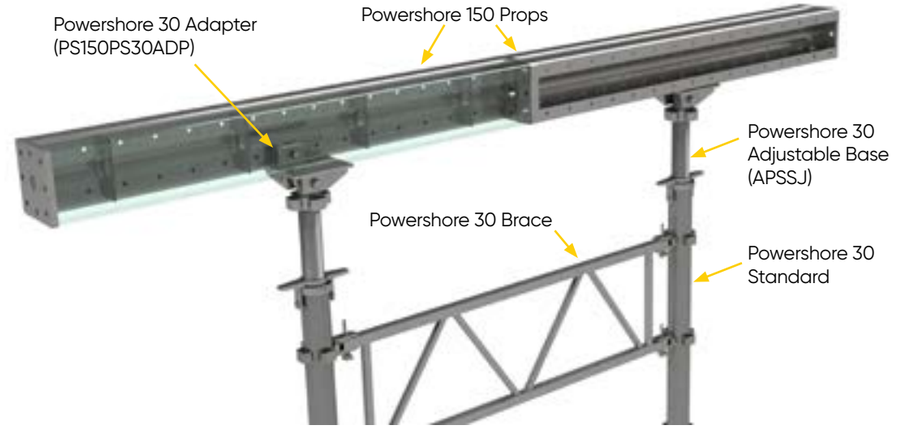
Step 3
Fix the sheet piles into the Powershore 150 horizontal member using custom steel washers. Commonly used steel washers are 2 x 450mm x 200 wide by 25mm thick bolted using 4 x M20 GR 8.8 Threaded rods and nuts.

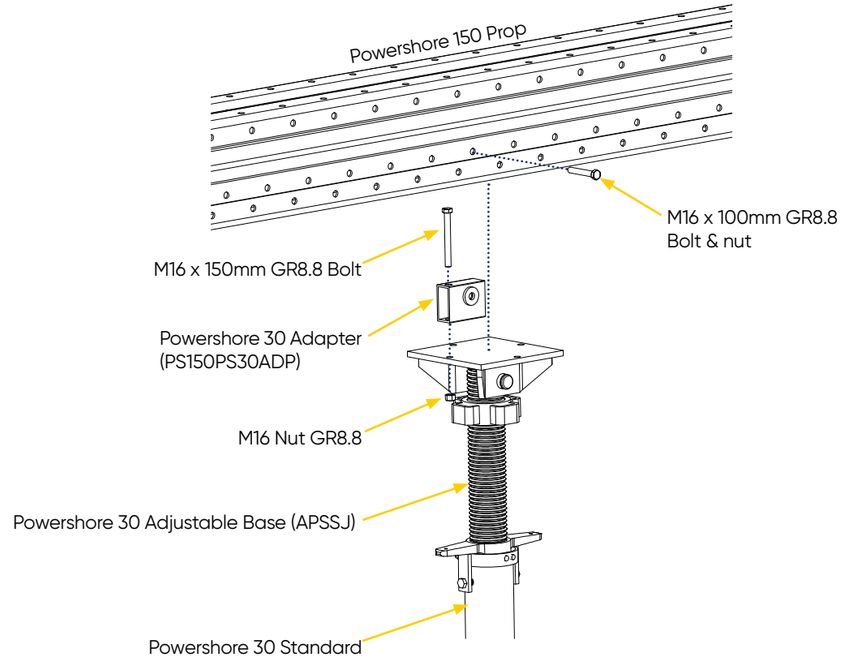


5. Assembly Details

Powershore 150 Prop Adapter to Powershore 30 Prop

The Powershore 30 adapter (PS150PS30ADP) enables the use of Powershore 30 standards for use with the Powershore 150 system. The adapter is installed to the Powershore 30 adjustable base with one M16 x 150mm GR 8.8 bolt and nut. The Powershore 150 prop is positioned on top of the adjustable base, ensuring the Powershore 30 adapter is directly in the centre. The prop is fixed off with one M16 x 100mm GR 8.8 bolt and nut through the Powershore 30 adapter center hole.

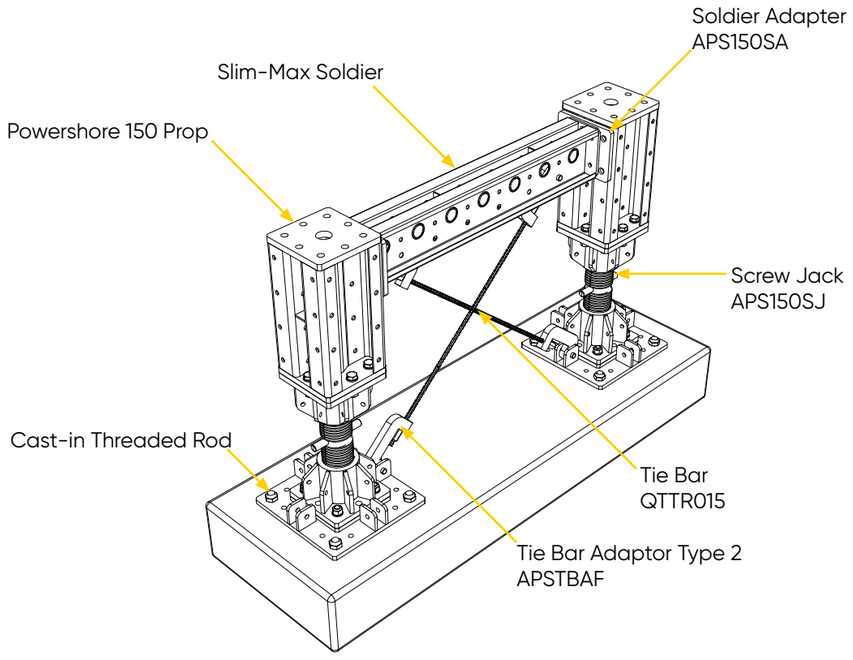


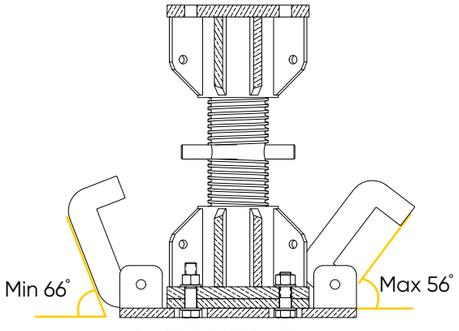


5. Assembly Details

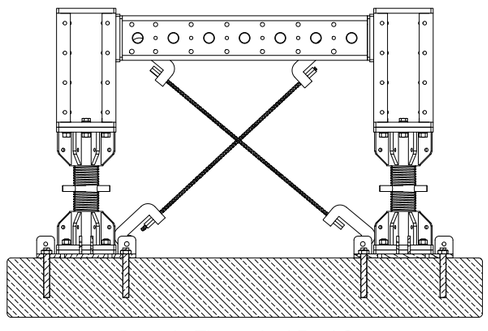
Jack Brace Adapter

The Jack Brace Adapter allows Screw Jacks to be installed directly to a substrate. The Screw Jack must be installed first to maintain access to the 4 x bolt holes on the underside of the base plate, 4 x GR 8.8 M24 x 100mm bolts must be used to couple these components. The Jack Brace Adaptor can then be connected to the grillage or substrate and Tie Bar Adapters (Type 1 or 2 can be installed as determined by the required angle) and can be secured using Ø19 Podger Pins.





Ensure 4 x GR 8.8 M24 x 100mm bolts are installed into Screw Jack first. Bolt head should be located on the underside of the baseplate. The plate can then be installed onto the substrate.



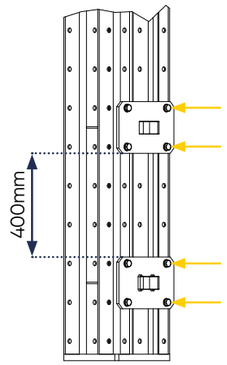
Cast-in Threaded Rod Setup

POWERSHORE 150

5. Assembly Details

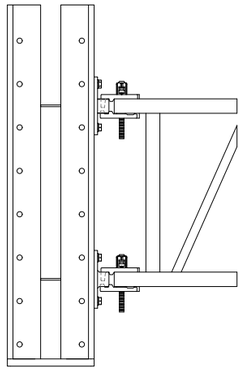
PS150-30 Tower Construction

1.



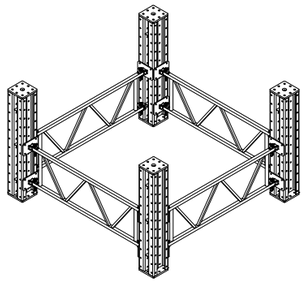
4x M16x45mm GR10.9 bolts are installed into the corners of the Gate Adaptor, plates are spaced apart by 400mm. Ensure Adaptors are installed as shown.

2.



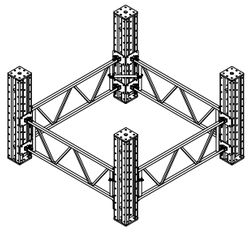
PS30 Horizontal Brace jaws are secured to gate Adaptor's mounting plate.

3.



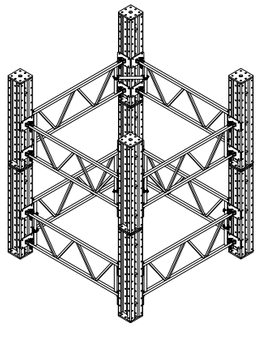
Gates should be installed between each vertical prop.

4.



Corner braces are installed on opposing corners to the Horizontal Brace's circular hollow section.

5.



Corner braces should alternate corners for each level of bracing.

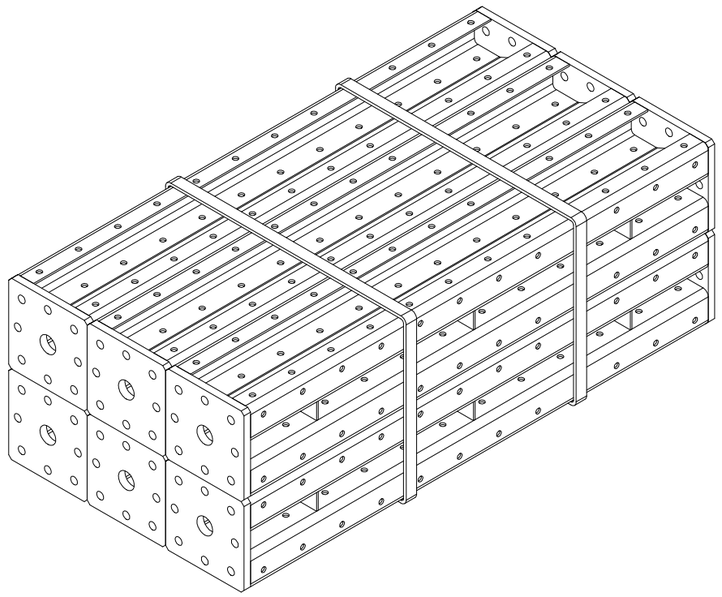
6. TRANSPORT & HANDLING

6. Transport & Handling

Powershore 150 Props

The Acrow stillage is used to store a set number of items per stillage. Items should be stored in a particular way to prevent them from falling off the stillage.
The recommended method and process is:

- Stack items next to and on top of each other.
- Only pack and stack similar matching lengths per stillage. Do not mix different sizes or types in one stillage.
- Ensure every stillage load does not exceed the advised table below.
- Secure assembled items onto stillage by using at least two straps or plastic wrapped for enclosed stillages (two straps for enclosed stillage not applicable).
- Refer to Acrow Scaffold Stillage Transport and Manual Handling Document for further stacking and transport recommendations.



DESCRIPTION	UNIT MASS (KG)	QTY / STILLAGE	TOTAL MASS / STILLAGE (KG)	ACROW STILLAGE TYPE
100mm	35.4	24	840	Bundle
300mm	46.9	12	562	Bundle
600mm	65.0	12	780	Bundle
1200mm	100.6	6	600	Bundle
1800mm	136.2	6	818	Bundle
2400mm	171.7	6	1026	Bundle
Inner Leg 780mm	16.4	25	450	MEP

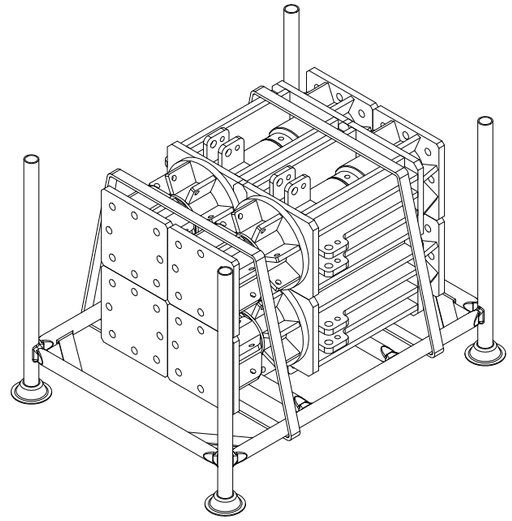
POWERSHORE 150

6. Transport & Handling

Powershore 150 Jacks

The Acrow stillage is used to store a set number of items per stillage. Items should be stored in a particular way to prevent them from falling off the stillage.
The recommended method and process is:

- Stack items next to and on top of each other.
- Only pack and stack similar matching lengths per stillage. Do not mix different sizes or types in one stillage.
- Ensure every stillage load does not exceed the advised table below.
- Secure assembled items onto stillage by using at least two straps or plastic wrapped for enclosed stillages (two straps for enclosed stillage not applicable).
- Refer to Acrow Scaffold Stillage Transport and Manual Handling Document for further stacking and transport recommendations.



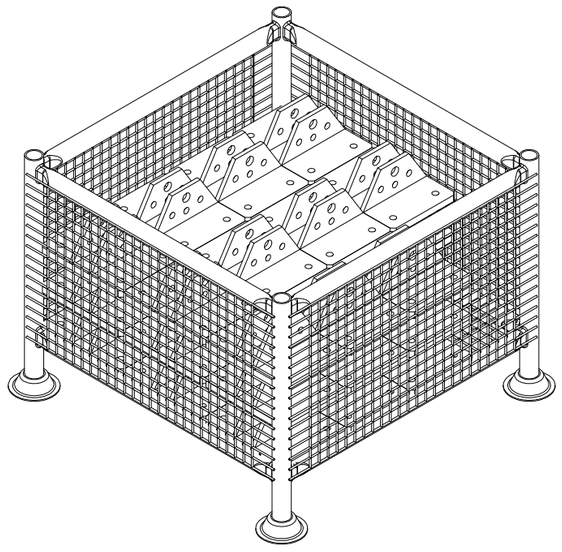
DESCRIPTION	UNIT MASS (KG)	QTY PER STILLAGE	TOTAL MASS PER STILLAGE (KG)	ACROW STILLAGE TYPE
1500 kN Screw Jack	108.6	3	470	MEP
1500 kN Hydraulic Jack	331.0	4	993	SP

6. Transport & Handling

Powershore 150 Adapters

The Acrow stillage is used to store a set number of items per stillage. Items should be stored in a particular way to prevent them from falling off the stillage.
The recommended method and process is:

- Stack items next to and on top of each other.
- Only pack and stack similar matching lengths per stillage. Do not mix different sizes or types in one stillage.
- Ensure every stillage load does not exceed the advised table below.
- Secure assembled items onto stillage by using at least two straps or plastic wrapped for enclosed stillages (two straps for enclosed stillage not applicable).
- Refer to Acrow Scaffold Stillage Transport and Manual Handling Document for further stacking and transport recommendations.

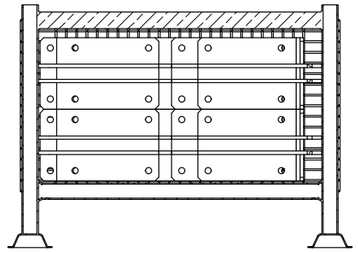


DESCRIPTION	UNIT MASS (KG)	QTY PER STILLAGE	TOTAL MASS PER STILLAGE (KG)	ACROW STILLAGE TYPE
Brace Adapter	14.7	18	265	MEP
End Plate Adapter	17.0	54	918	MEP
Soldier Adapter	10.4	90	936	MEP
Jack Brace Adapter	54.9	10	549	MEP
Turnbuckle Adapter	12.9	35	500	MEP
Tie Bar Adapter Type 1	5.1	100	510	MEP
Tie Bar Adapter Type 2	5.1	100	510	MEP
Tie Bar Adapter Fixed	5.9	300	300	MEP

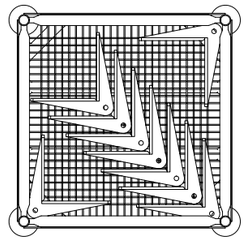
6. Transport & Handling

Powershore 150 Adapters - Brace Adapter

Section Front View

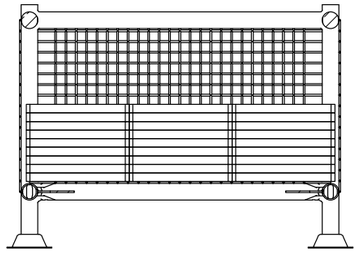


Top View

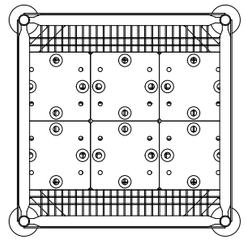


Powershore 150 Adapters - End Plate Adapter

Section Front View

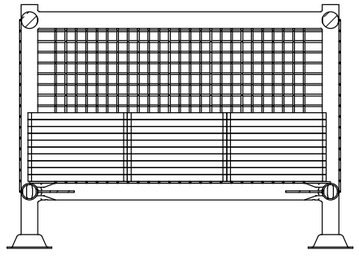


Top View

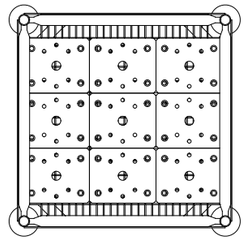


Powershore 150 Adapters - Soldier Adapter

Section Front View

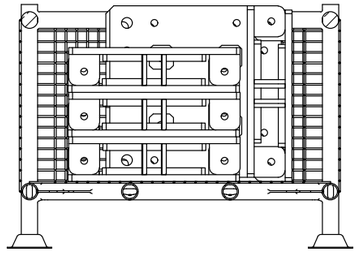


Top View

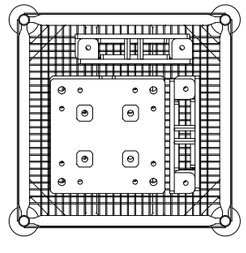


Powershore 150 Adapters - Jack Brace Adapter

Section Front View



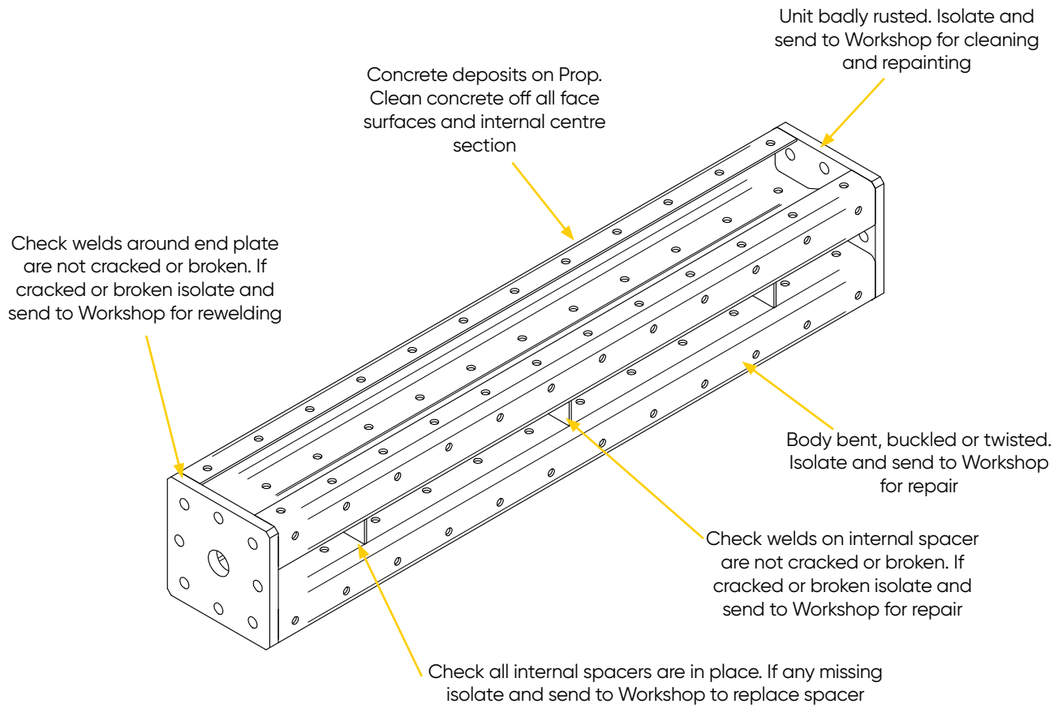
Top View



7. MAINTENANCE & INSPECTION

7. Maintenance & Inspection

Props



7. Maintenance & Inspection

Props Inspection

NAME: ..... CHECKED DATE: .....

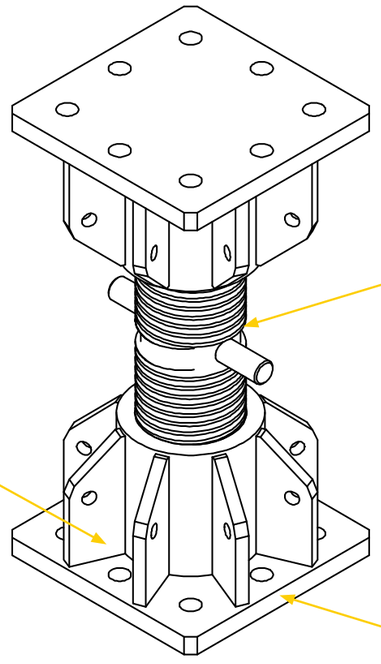
Generally, visual inspection checking for the possible faults listed below. Please tick or cross the checked box.

POSSIBLE FAULTS	DAMAGE LIMITS FOR REPAIR	RECOMMENDED ACTION	CHECKED
Body bent, buckled or twisted	Prop must be straight with no twists or buckles	Straighten on flypress and/or panel beat to remove buckle. If twisted unit must be scrapped. Units with a damaged end may be cut back to smaller size. See Work Instruction "Converting to smaller size"	
Internal spacer missing	All spacers must be in place	Replace by welding on new spacer	
Cracked or broken weld on spacer	No broken or cracked welds permitted	Grind back and reweld* (* See WI –GE-103)	
Cracked or broken weld around end plate	No broken or cracked welds permitted	Grind back and reweld* (* See WI –GE-103)	
Unit badly rusted	Rusty appearance gives customer impression of unit being not up to strength.	Clean and repaint	
Concrete deposits	Edges of Prop must be free of concrete deposits. End plates must also be free of concrete	Remove any deposits from edges and end plates and any deposits which will cause other problems	
Note: When re-welding cracked welds Work Instruction WI-GE-100 details must be followed			

Issues / Notes:

7. Maintenance & Inspection

Screw Jack



POWERSHORE 150

7. Maintenance & Inspection

Screw Jack Inspection

NAME: ..... CHECKED DATE: .....

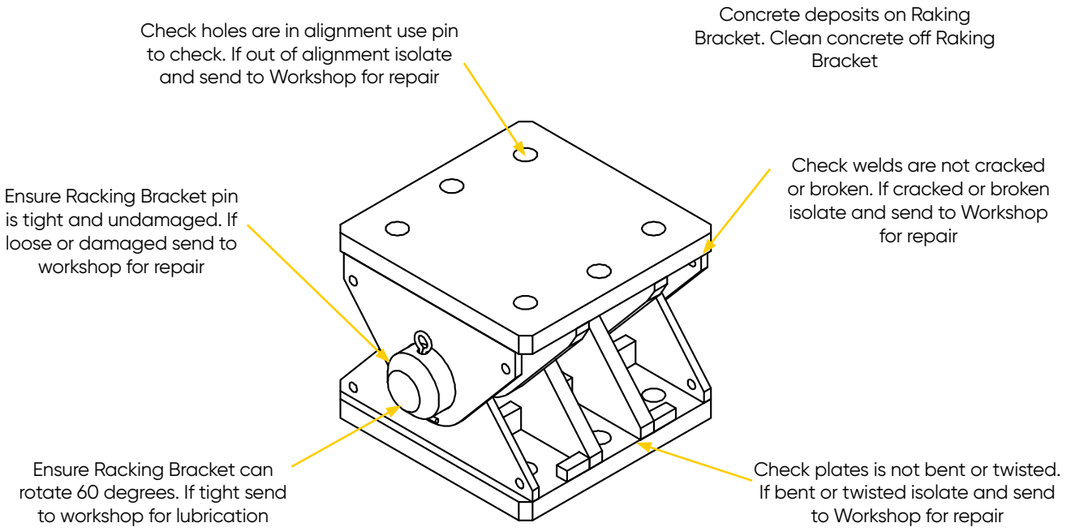
Generally, visual inspection checking for the possible faults listed below. Please tick or cross the checked box.

POSSIBLE FAULTS	DAMAGE LIMITS FOR REPAIR	RECOMMENDED ACTION	CHECKED
Base plate bent or twisted	Base plate must be straight and free of twist	Straighten if possible otherwise scrap* (*See WI-GE-103)	
Welds broken or cracked	All welds must be intact	Grind back & re-weld* (* See WI-GE-100)	
Shaft does not run freely	Shaft must run freely in both units	Find problem and rectify oil thread	
Concrete deposits on jack	Jack must be free of all concrete	Clean off all concrete with scraper or wire brush	
Note: When re-welding cracked welds Work Instruction WI-GE-100 details must be followed			

Issues / Notes:

7. Maintenance & Inspection

Raking Bracket



POWERSHORE 150

7. Maintenance & Inspection

Raking Bracket Inspection

NAME: ..... CHECKED DATE: .....

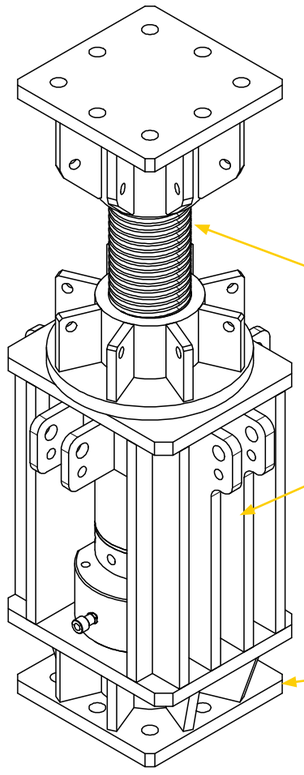
Generally, visual inspection checking for the possible faults listed below. Please tick or cross the checked box.

POSSIBLE FAULTS	DAMAGE LIMITS FOR REPAIR	RECOMMENDED ACTION	CHECKED
Holes are out of alignment	Holes must be in alignment	Find source of problem and rectify or re drill	
Concrete deposits on Bracket	Bracket must be free of all concrete	Clean off all concrete with scraper or wire brush	
Plates bent or twisted	Plates must be straight and free of twist	Straighten if possible otherwise scrap* (*See WI-GE-103)	
Welds broken or cracked	All welds must be intact	Grind back & re-weld* (* See WI-GE-100)	
Bracket pin is missing or damaged	Pin must be in place	Replace or fix pin	
Bracket cannot rotate 60 Degrees	Bracket must be able to move	Find issue and lubricate Axel	
Note: When re-welding cracked welds Work Instruction WI-GE-100 details must be followed			

Issues / Notes:

7. Maintenance & Inspection

Hydraulic Jack



Concrete deposits on hydraulic Jack. Clean concrete off jacks

Check threaded shaft runs freely in base unit. If shaft does not run freely isolate and send to Workshop for repair

Check welds are not cracked or broken. If cracked or broken isolate and send to Workshop for repair

Check base plate is not bent or twisted. If bent or twisted isolate and send to Workshop for repair

POWERSHORE 150

7. Maintenance & Inspection

Hydraulic Jack Inspection

NAME: ..... CHECKED DATE: .....

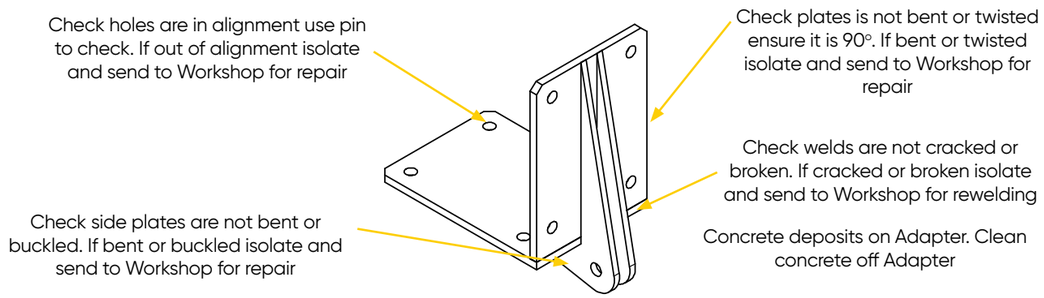
Generally, visual inspection checking for the possible faults listed below. Please tick or cross the checked box.

POSSIBLE FAULTS	DAMAGE LIMITS FOR REPAIR	RECOMMENDED ACTION	CHECKED
Base plate bent or twisted	Base plate must be straight and free of twist	Straighten if possible otherwise scrap* (*See WI-GE-103)	
Welds broken or cracked	All welds must be intact	Grind back & re-weld* (* See WI-GE-100)	
Shaft does not run freely	Shaft must run freely in both units	Find problem and rectify oil thread	
Concrete deposits on jack	Jack must be free of all concrete	Clean off all concrete with scraper or wire brush	
Note: When re-welding cracked welds Work Instruction WI-GE-100 details must be followed			

Issues / Notes:

7. Maintenance & Inspection

Brace Adapter



Brace Adapter Inspection

NAME: ..... CHECKED DATE: .....

Generally, visual inspection checking for the possible faults listed below. Please tick or cross the checked box.

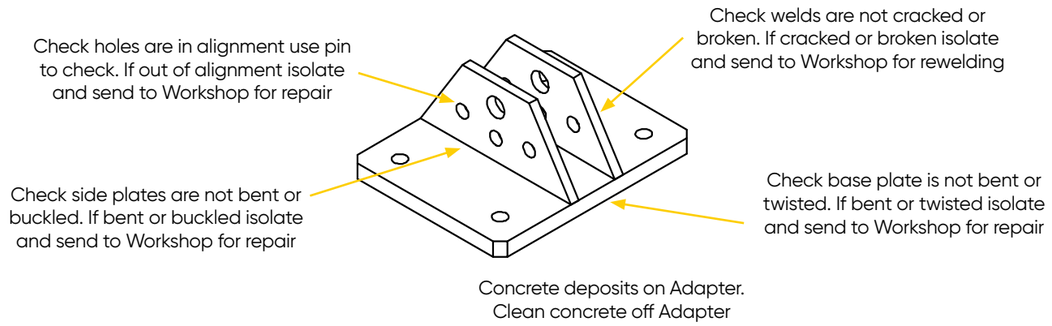
POSSIBLE FAULTS	DAMAGE LIMITS FOR REPAIR	RECOMMENDED ACTION	CHECKED
Side plates bent or buckled	Side plate must be straight and parallel	Straighten, if not possible then scrap	
Welds broken or cracked	All welds must be intact	Grind back & reweld	
Plate bent or buckled	Plate must be 90 Degrees	Straighten, if not possible then scrap	
Concrete deposits on Adapter	Adapter must be free of all concrete	Clean off all concrete with scraper, chisel or wire brush	
Holes are out of alignment	Holes must be in alignment	Find source of problem and rectify or re drill	
Note: When re-welding cracked welds Work Instruction WI-GE-100 details must be followed			

Issues / Notes:

POWERSHORE 150

7. Maintenance & Inspection

Turnbuckle Adapter



Turnbuckle Adapter Inspection

NAME: ..... CHECKED DATE: .....

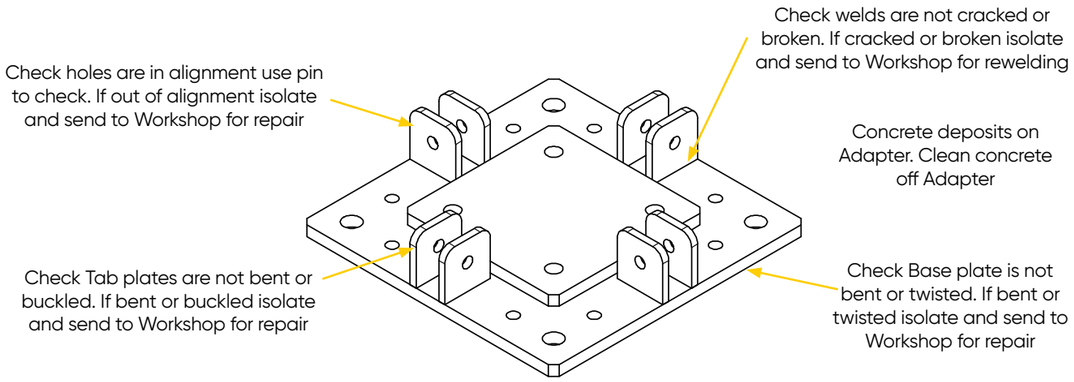
Generally, visual inspection checking for the possible faults listed below. Please tick or cross the checked box.

POSSIBLE FAULTS	DAMAGE LIMITS FOR REPAIR	RECOMMENDED ACTION	CHECKED
Side plates bent or buckled	Side plate must be straight and parallel	Straighten, if not possible then scrap	
Welds broken or cracked	All welds must be intact	Grind back & reweld* (* See W.I. 146)	
Base plate bent or buckled	Bass plate must be straight	Straighten, if not possible then scrap	
Concrete deposits on Adapter	Adapter must be free of all concrete	Clean off all concrete with scraper, chisel or wire brush	
Holes are out of alignment	Holes must be in alignment	Find source of problem and rectify or re drill	
Note: When re-welding cracked welds Work Instruction WI-GE-100 details must be followed			

Issues / Notes:

7. Maintenance & Inspection

Jack Brace Adapter



Jack Brace Adapter Inspection

NAME: ..... CHECKED DATE: .....

Generally, visual inspection checking for the possible faults listed below. Please tick or cross the checked box.

POSSIBLE FAULTS	DAMAGE LIMITS FOR REPAIR	RECOMMENDED ACTION	CHECKED
Base plates bent or buckled	Base plate must be straight	Straighten, if not possible then scrap	
Welds broken or cracked	All welds must be intact	Grind back & reweld	
Tab plates bent or buckled	Sides plate must be straight and parallel	Straighten, if not possible then scrap	
Concrete deposits on Adapter	Adapter must be free of all concrete	Clean off all concrete with scraper, chisel or wire brush	
Holes are out of alignment	Holes must be in alignment	Find source of problem and rectify or re drill	
Note: When re-welding cracked welds Work Instruction WI-GE-100 details must be followed			

Issues / Notes:

LOCATIONS

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Regional NSW
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