acrow.
ENGINEERING & CONSTRUCTION

TECHNICAL GUIDE
ACROW FLEX DECK

FALSEWORK & SHORING

Any safety provisions as directed by the appropriate governing agencies must be observed when using our products. The pictures in this document are snapshots of situations at different stages of assembly, and therefore are not complete images. For the purpose of safety, they should not be deemed as definitive.

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 **ACROW FLEX DECK** 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
G	04/2026	Head Joint Prop Waler Addition
H	06/2026	Added Alu-Prop range into Product Information list and amended product codes
I	10/2026	Updated Product Codes + added P20Clamps + update location page

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1. Technical Specifications

System Description

ACROW FLEX DECK System is a Falsework and Shoring system. It has three simple components, P20 Beam, fork head and Prop.

Purpose of the Document

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

The document also outlines the various components of the system and 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 responsibility of the installation contractor 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 **ACROW FLEX DECK**. Our technical experts can identify the most efficient temporary work design that meets project requirements, specifications, and the 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 is to draw the user's attention to possible musculoskeletal disorders as a result of manual handling during assembly and dismantling of the **ACROW FLEX DECK** system.

It is recommended that users of the **ACROW FLEX DECK** system employ and implement appropriate procedures and control measures to eliminate or control any risk of musculoskeletal disorder or injury while handling.

Refer to the Code of Practice on Manual Handling published by the local Workcover Authority or other approved and recognized 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 **ACROW FLEX DECK** products.

Please use the information from this manual and its recommended assembly details to ensure the correct installation and 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 **ACROW FLEX DECK** system with equipment from other Acrow's supplied systems may entail performance issues and therefore require a design check and/or verification by Acrow Engineering or a qualified experienced engineer.

Hazard identification and risk assessments for the erection and dismantling of the system are available from Acrow branches. Site-specific hazards and risk assessments may need to be generated for specific projects.

Disclaimer

1. The photographs and illustrations shown within this manual are intended to be used as a guideline only.
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 the 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 the Acrow'' Engineering department.

Applicable Codes and Standards

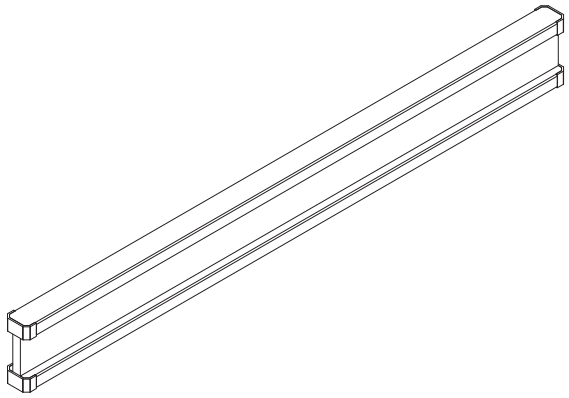
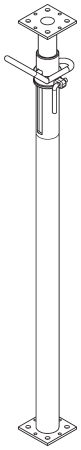
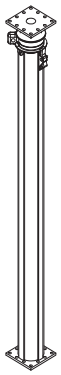
The structural design information and guide provided in this document are limited to the relevant codes nominated below. It does not include certification of any structures or works associated with a project.

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
FORMWORK	Formwork for Concrete	AS 3610-1995
	Formwork for Concrete Part 1- Specifications	AS 3610.1-2018

2. GENERAL PRODUCT INFORMATION

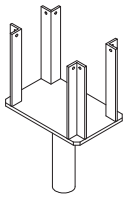
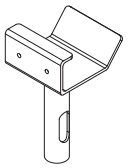
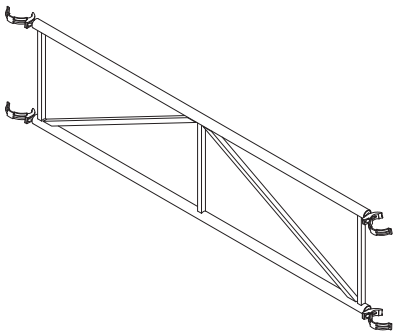
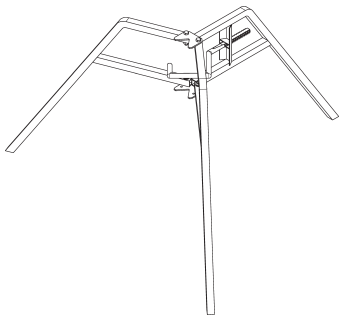
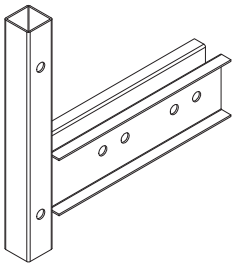
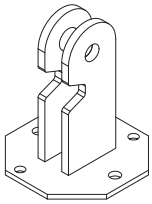
2. General Product Information

Product Components

PRODUCT	DESCRIPTION	PRODUCT CODE	MASS (kg)
	**Acrow P20 Beam** European Timber I-Beam		
	900mm	P20B09	4.5
	1200mm	P20B12	6.0
	1450mm	P20B145	7.3
	1600mm	P20B16	8.0
	1900mm	P20B19	9.5
	2150mm	P20B215	10.8
	2450mm	P20B245	12.3
	2650mm	P20B265	13.3
	2900mm	P20B29	14.5
	3000mm	P20B30	15.0
	3300mm	P20B33	16.5
	3600mm	P20B36	18.0
	3900mm	P20B39	19.5
	4200mm	P20B42	20.2
	4500mm	P20B45	22.5
	4900mm	P20B49	24.5
	5900mm	P20B59	29.5
	**EP Prop** Refer prop section for different Heights and WLL		
	2.5m EP Prop (1800-3000mm) EVO 2	EP25	15.3
	3.5m EP Prop (2000-3500mm) EVO 2	EP35	19.8
	4.0m EP Prop (2300-4000mm) EVO 2	EP40	22.4
	4.5m EP Prop (2700-4500mm) EVO 2	EP45	27.4
	5.5m EP Prop (3100-5500mm) EVO 2	EP55	36.6
	3.5m EP Prop (2000-3500mm) EVO 3	EP35-3T	21.6
	3.5m EP Prop Quick Strike (2000-3500mm)	EP35QS	21.7
	**Aluprop Range**		
	Alu-Prop (1650-2800mm)	2220010	17.6
	Alu-Prop (2200-3700mm)	2220020	21.6
		ADAP2237	21.6
	Alu-Prop (3300-4800mm)	2220030	24.4
		ADAP48	24.4
	Alu-Prop (4500-6000mm)	2220040	29.6

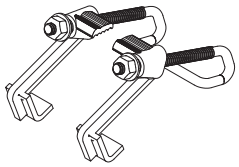
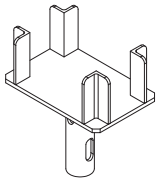
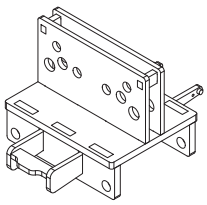
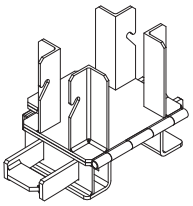
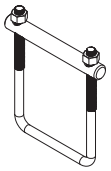
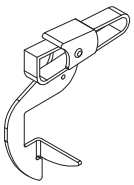
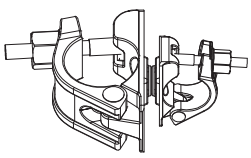
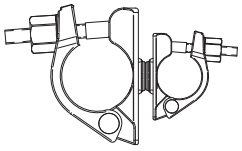
2. General Product Information

Support Components

PRODUCT	DESCRIPTION	PRODUCT CODE	MASS (kg)
	**Acrow Fork Head** Fork Head to suit single or twin P20 beams		
	Acrow Fork Head	AFDFH	2.9
	**P20 Intermediate support** Used to shore the P20 Beam The head's open profile makes it easier to assemble and dismantle the head.		
	P20 Intermediate Support	AFDIS	0.71
	**EP Prop Brace Frame**		
	Brace Frame 0.75	ADBF075	9.1
	Brace Frame 1.50	ADBF0150	14.0
	Brace Frame 1.57	ADBF0157	15.3
	Brace Frame 2.32	ADBF232	22.2
	**Universal Tripod**		
	Universal Prop Tripod	AFDTP	11.0
	**Handrail Support Black**		
	Handrail Support	940857	4.8
	**Head Joint Prop Waler**		
	Head Joint Prop Waler	1960370	2.7

2. General Product Information

Brackets

PRODUCT	DESCRIPTION	PRODUCT CODE	MASS (kg)
	**P20 Clamps** Two different Clamps 1. Used to connect P20 beam to Slim-Lite/Max Soldiers. 2. Used to connect P20 beams to USS Walers		
	P20 Clamp to Soldiers	SSP20C	2.4
	P20 Clamp to USS Walers	USSP20C	2.0
	**Double Head**		
	Double Head	0940856	2.9
	**Flex Deck Table Head** Used to connect EP props to soldiers.		
	Table Head	AFDTH	10.8
	**Head VR**		
	Head VR	2211012	21.1
	**Narrow VR Connection Unit**		
	Narrow VR Connection Unit	2211008	0.7
	**GHI H20 Beam Clamp**		
	Beam Clamp	0940934	0.6
	**Right Angle Coupler**		
	48.3 x 76mm RAC	DCR76	1.65
	48.3 x 89mm RAC	DCR89	2.5
	**Swivel Coupler**		
	48.3 x 76mm Swivel	SCR76	1.6
	48.3 x 89mm Swivel	SCR89	2.5

3. WORKING LOAD LIMITS (WLL)

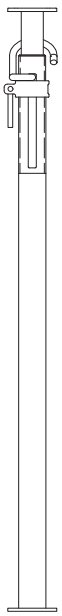
3. Working Load Limits (WLL)

EP Prop WLL

PROP EXTENSION	PRODUCT DESCRIPTION								
	EP25	INNER TUBE				EP40	EP45	EP55	EP35QS
		UP	DOWN	UP	DOWN				
		EP35		EP35					
5.50								21.27	
5.30								23.27	
5.10								25.75	
4.50							20.6	34.75	
4.40							21.75	36.75	
4.20							24.27	39.00	
4.00						21.27	28.04	39.00	
3.70						25.51	32.51	39.00	
3.50		30.90	33.25	26.25	30.52	28.75	36.17	39.00	37.25
3.40		33.27	36.27	28.26	33.52	30.70	36.58	39.00	40.45
3.30		35.75	39.27	30.27	36.50	32.27	37.58	39.00	43.75
3.20		38.51	41.76	32.45	37.58	33.04	37.58	39.00	47.95
3.10		41.27	44.27	34.51	37.58	34.51	37.58	39.00	50.00
3.00	37.57	43.51	46.00	35.75	37.58	35.75	37.58		50.00
2.70	37.57	47.00	47.00	37.57	37.58	37.57	37.58		50.00
2.50	37.57	47.00	47.00	37.57	37.58	37.57			50.00
2.30	37.57	47.00	47.00	37.57	37.58	37.57			50.00
2.00	37.57	47.00	47.00	37.57	37.58				50.00
1.80	37.57								
	EVO 3			EVO 2					FAST PROP

Notes:

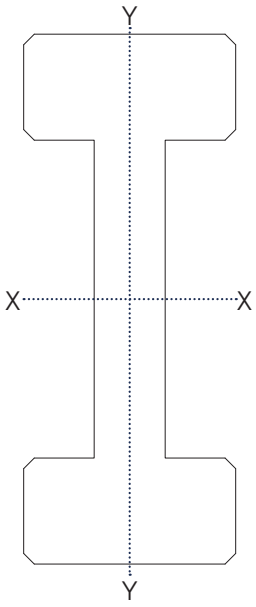
- Loads Based on Amadio EP Props
- Eccentricity = 10mm
- Out of plumb = L/200
- LSCF = 1.5
- These loads are only achievable with the Acrow Flex Deck application
- Prop Extensions excluded Drophead
- Props assumed to be fixed at the head



Inner Tube Up Only

3. Working Load Limits (WLL)

P20 Beam



Mass: 5 kg/m
Area: 9900mm
Ixx: 46130 mm4
E Value: 10000 N/mm4

Properties	Working Load Limit (WLL)
Maximum Shear Force	11.0 kN
Bending Moment	5.0 kNm

LSCF= 1.5

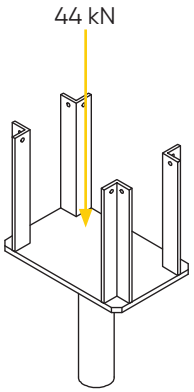
Span Table

Acrow Flex Deck Slab Formwork Details (Class 3 Surface Finish)										
	Joists			Bearers			Props			
Slab Depth (mm)	Type	Max Spacing (mm)	Max Span (mm)	Type	Max Spacing (mm)	Max Span (mm)	Type	Max Prop Extension (mm)	Prop WL (kN)	Max Leg Load (kN)
200	VM20	400	2400	VM20	2400	1000	EP C+D35	3000	22	22
300		400	1900		1900	1000		3000	22	22
400		400	1500		1500	1000		3000	22	22
500		400	1200		1200	1000		3000	22	22

Note:

1. All joists & bearers shall be continuous 3 span unless noted otherwise.

Fork Head WLL



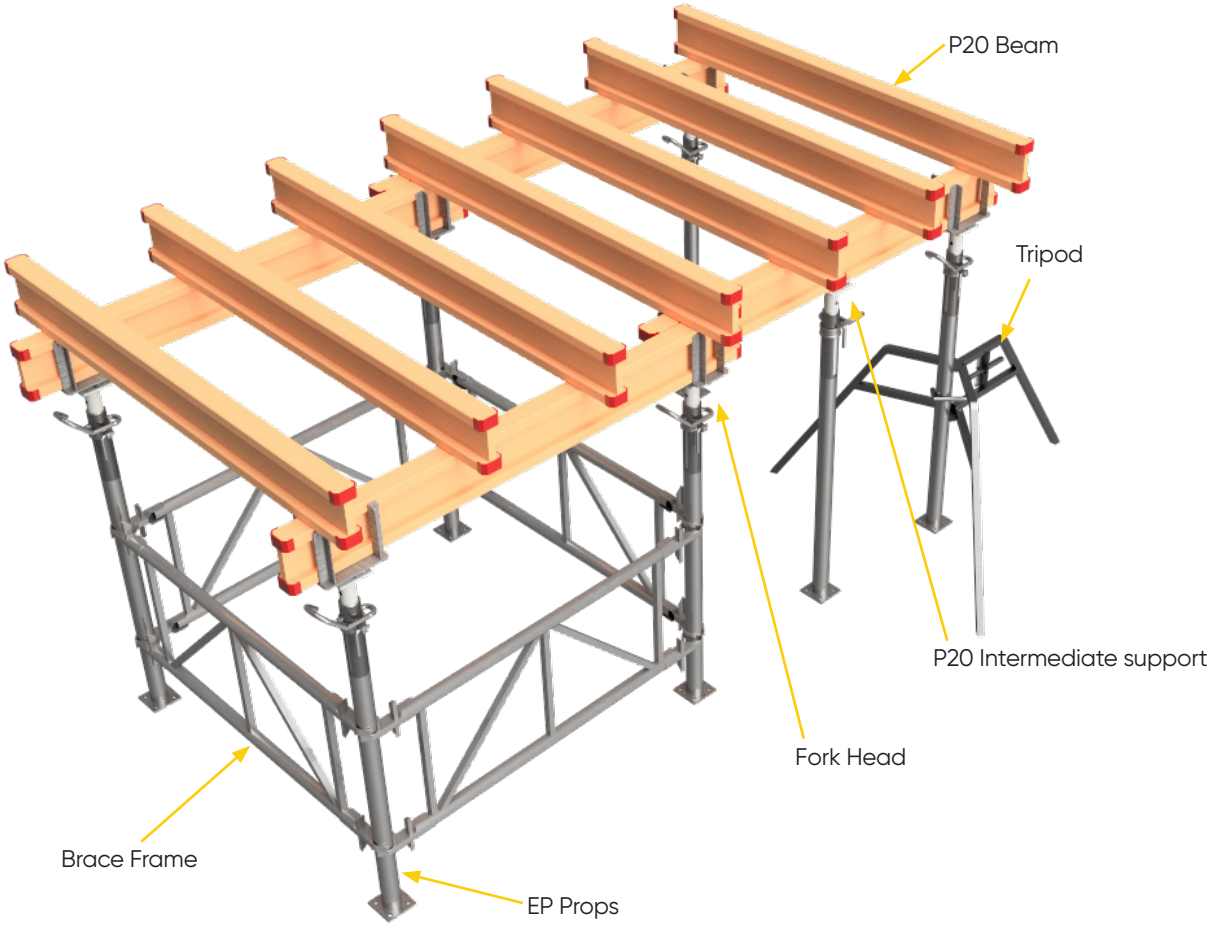
4. SYSTEM DETAILS

4. System Details

System Components

The Acrow FLEX DECK system consists of:

- P20 Beam
- Fork Head
- Prop
- Brace Frame
- Tripod
- Intermediate support

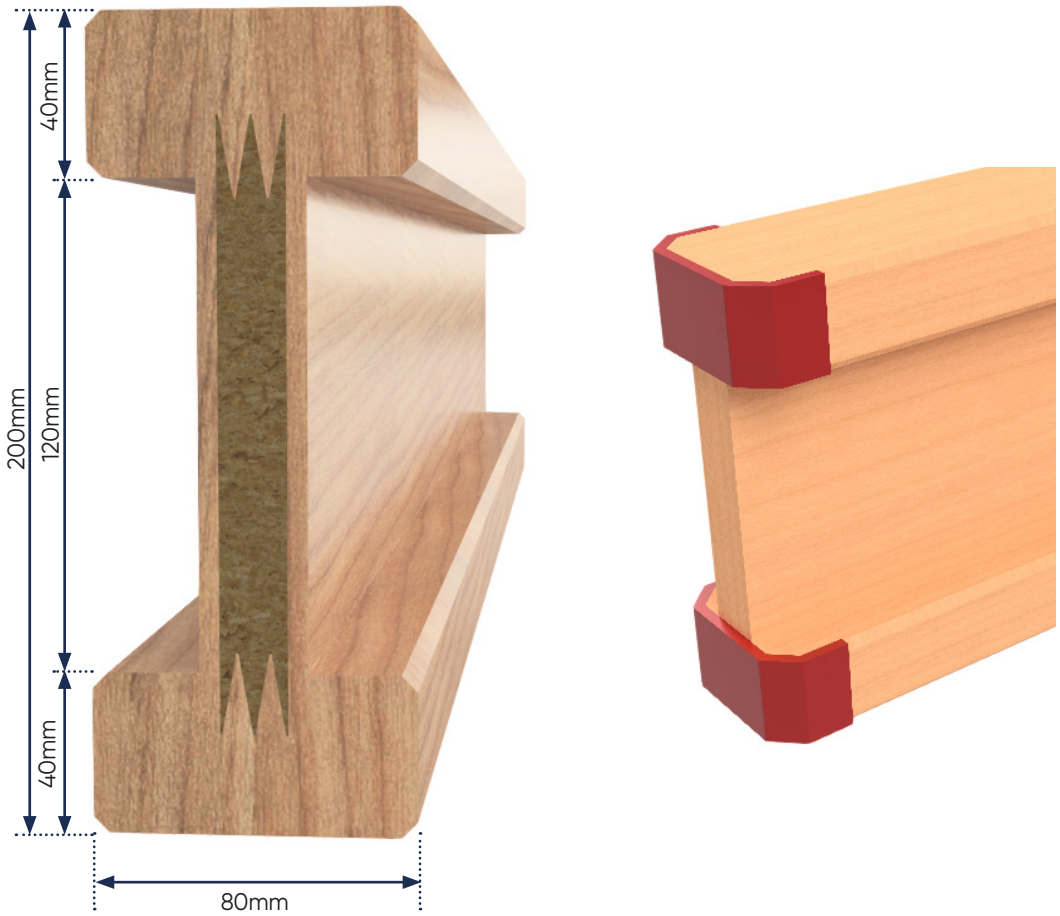


4. System Details

P20 Beam

The P20 timber beam is suitable for horizontal (slabs) and vertical (wall) formwork, bridge and tunnel formwork and construction of working platforms. The P20 timber beam is compliant to EN13377:2002.

The timber beam's 80mm x 40mm flanges are made from wood. The flanges are fingered-jointed and glued to the thick multi-ply solid wood web. The I section with a height of 200mm and width of 80mm resists strong impacts due to the protective plastic caps fitted at the ends of the beam. The P20 beam comes in many standard's lengths ranging from 1.45m to 5.9m.



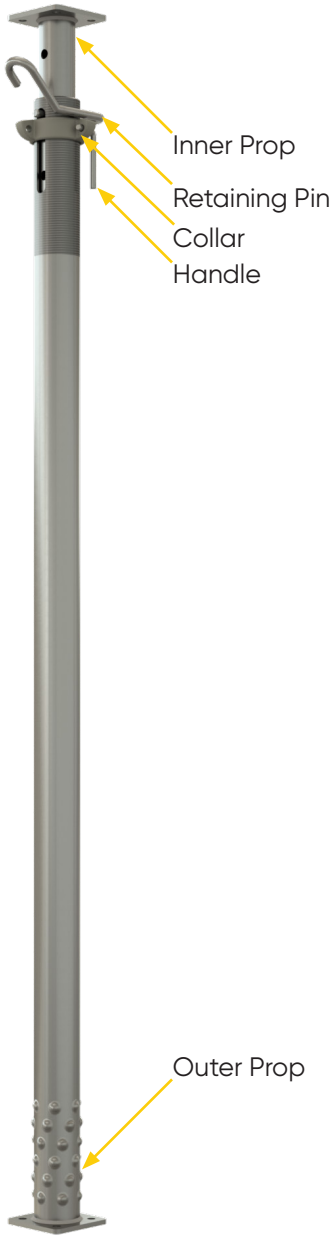
4. System Details

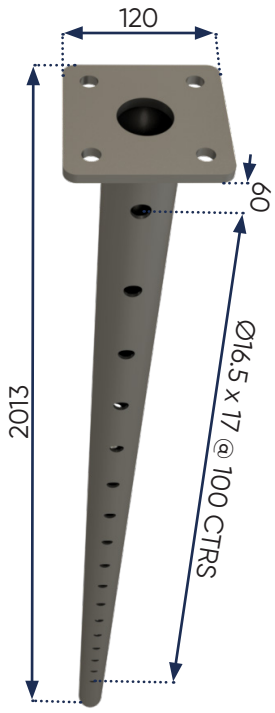
EP Prop

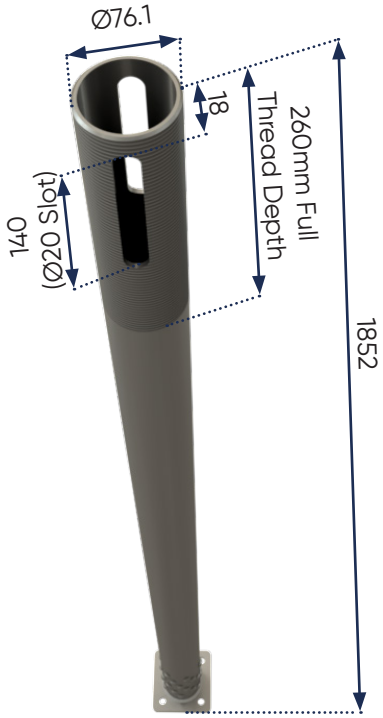
The EP Prop is available in an array lengths spanning 1.8m to 4m at full extension. These form the verticals of the flex deck and offer reliable shoring for the structure.
The prop consists of four key components:

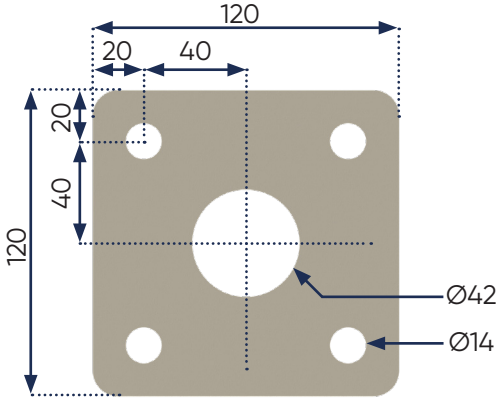
1. The outer tube with welded base-plate
2. The inner tube with welded top-plate
3. The collar and retaining pin
4. The chainless prop pin

The prop outer tube is 76.1 OD tube x 4.5mm wall thickness with a 260mm rolled thread and slot. Within the specified range, each prop can be finely adjusted using the rolling thread and slot. The rolled thread retains the wall thickness of the tube, thus maintaining maximum strength.
The prop inner tube is 60.3 OD x 3.6mm wall thickness for props No. 00 to No. 03 and 4.0mm wall thickness for prop No. 4. The prop inner tube has a series of Ø16.5 holes spaced at 100mm increments, which allow for the major adjustment of the prop height.





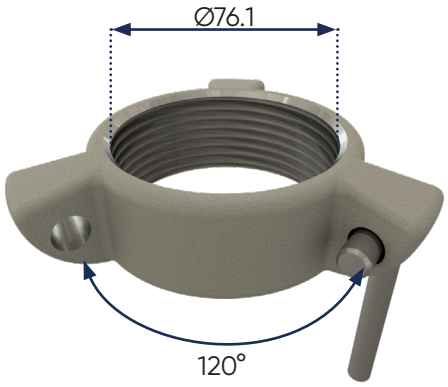


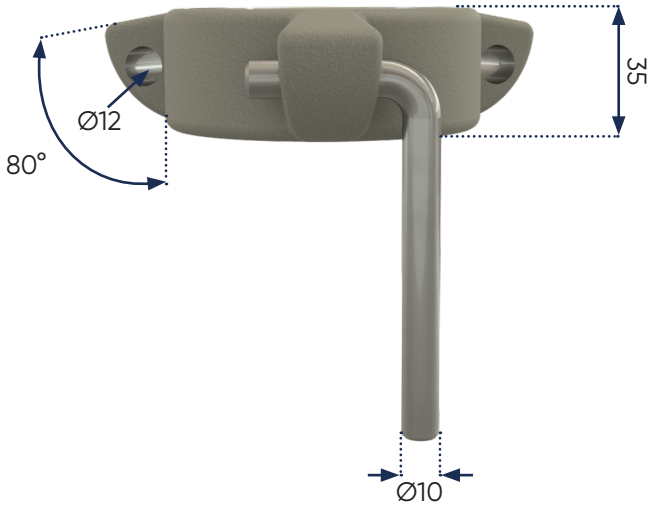


4. System Details

EP Prop Collar

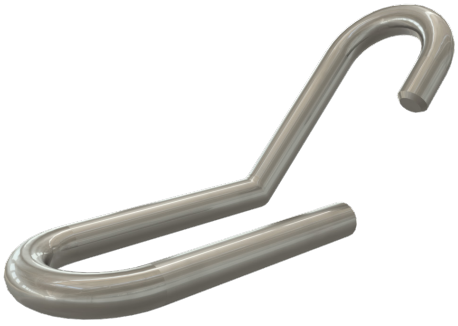
The prop collar locks the telescopic prop tubes by providing a surface to support the retaining pin. The collar engages with the outer tube's rolled thread and can be used for finer adjustments in overall prop height. The handle is used to gain leverage when adjusting the height.

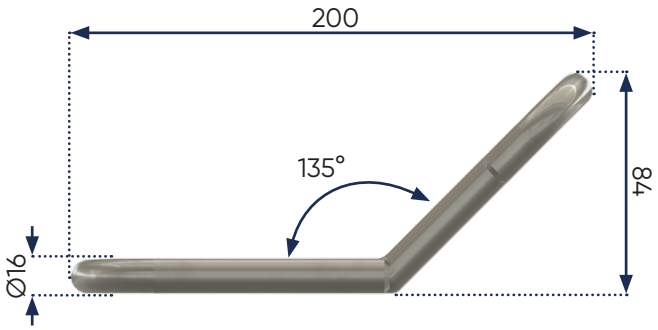


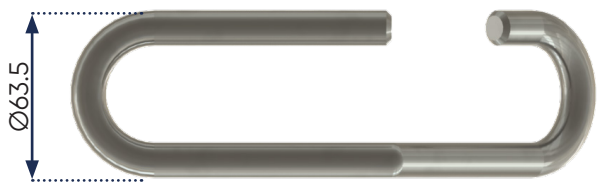


Prop Retaining Pin

The prop retaining pin is indexed along the inner prop tube and used to lock it in place. The prop collar is progressed to the underside of the pin to secure the set height.



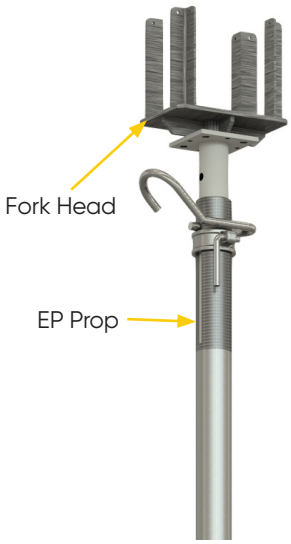


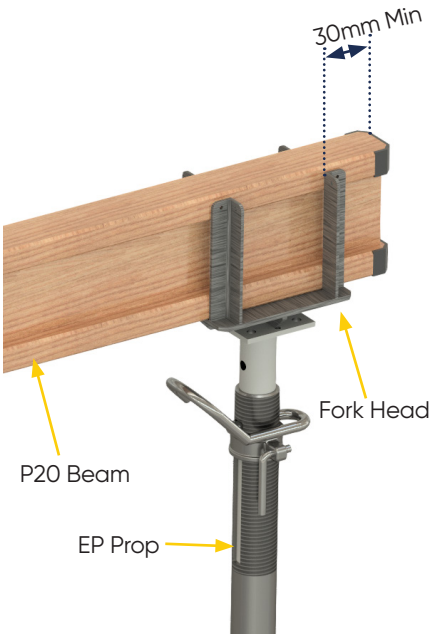


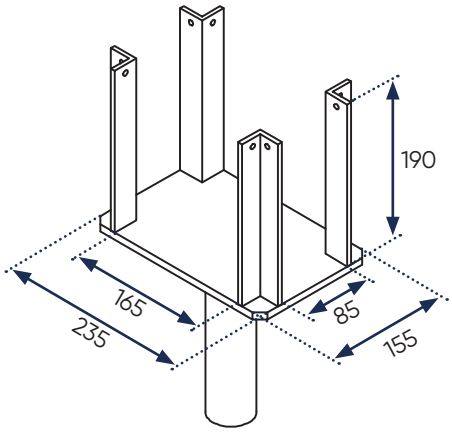
4. System Details

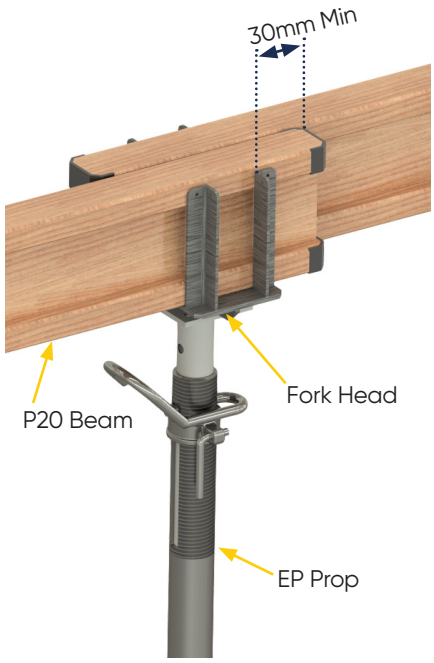
Fork Head

The Fork Head is installed into the end of the prop to hold the P20 beam captive. The Fork Head can be rotated to suit a single or double P20 Beam. Make sure the P20 beam protrudes past the Fork Head at a minimum of 30mm.





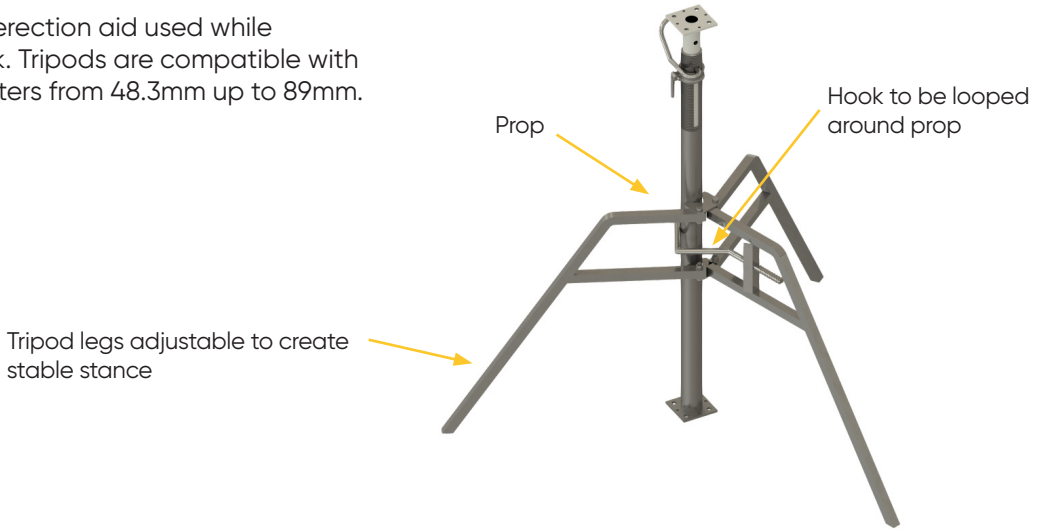




4. System Details

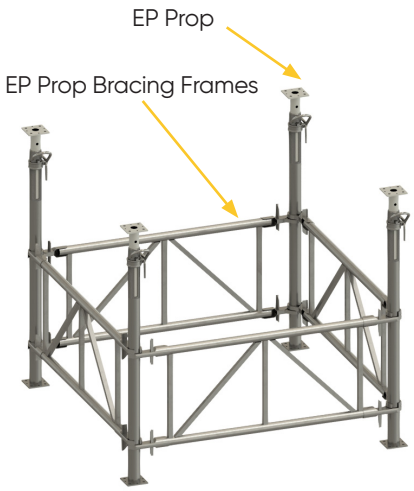
Prop Tripod

Prop Tripods are an erection aid used while assembling formwork. Tripods are compatible with different prop diameters from 48.3mm up to 89mm.



Prop Bracing Frames

Prop Bracing Frames an erection aid used while assembling formwork. The EP Props are the only brace frame that are designed to be compatible with different prop diameters from 48.5mm to 89mm.

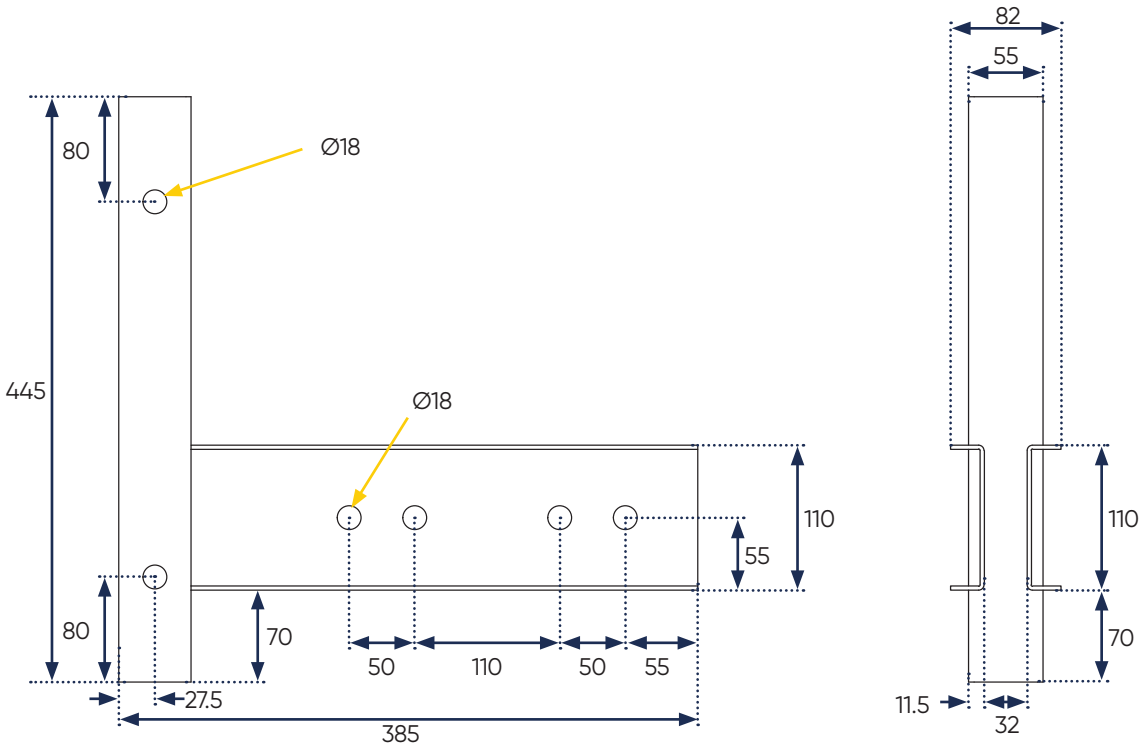


Bracing and Stability

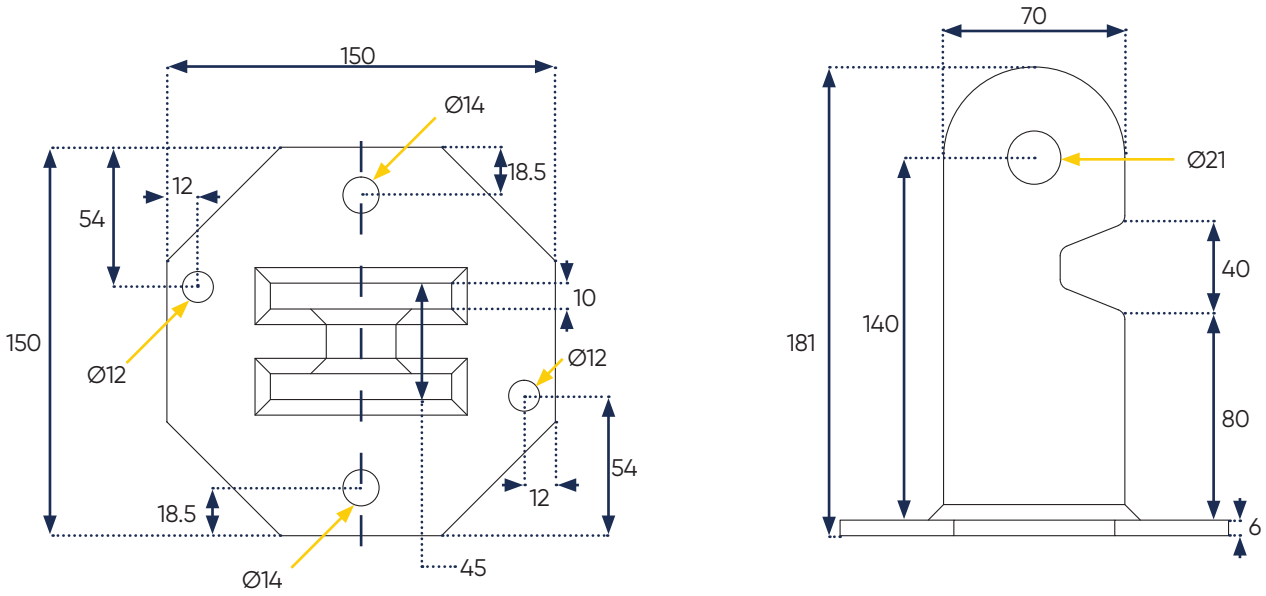
- It is assumed at all lateral stability for the system is transferred to the permanent structure walls and columns.
- Where the permanent works will not provide sufficient restraint to the system, additional bracing shall be introduced by the designer.
- The bracing in the system is only designed to aid in stability while erecting and dismantling the system.
- The stability and load-bearing capacity of all components and units must be ensured during all phases of the construction work.
- Do not step on or apply strain to cantilevers, closures, etc. Until suitable measures to ensure their stability have been correctly implemented (e.G. By tie-backs).
- When stripping out the formwork, do not endanger the stability of any part of the structure, or of any scaffolding, platforms or formwork that is still in place
- Trip-pods and bracing frames between props are erection and dismantle tools only.

4. System Details

Handrail Support

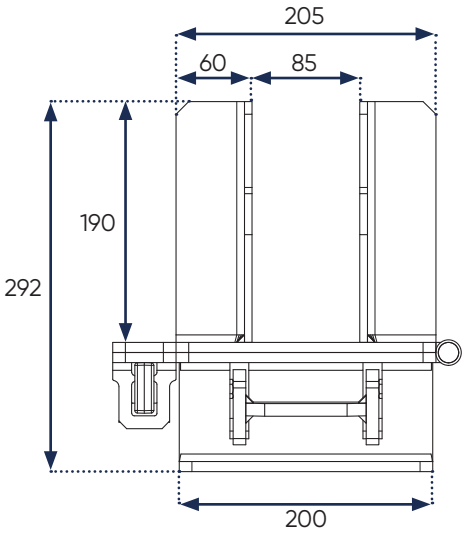


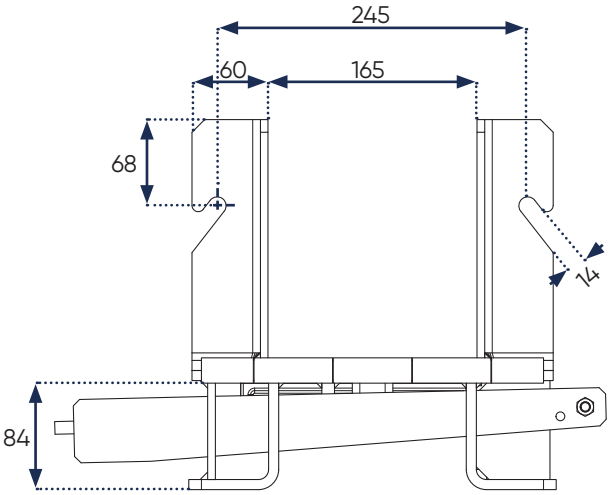
Head Joint Prop Waler



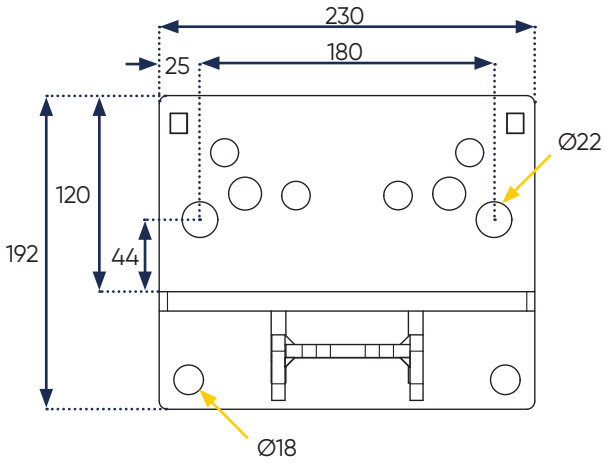
4. System Details

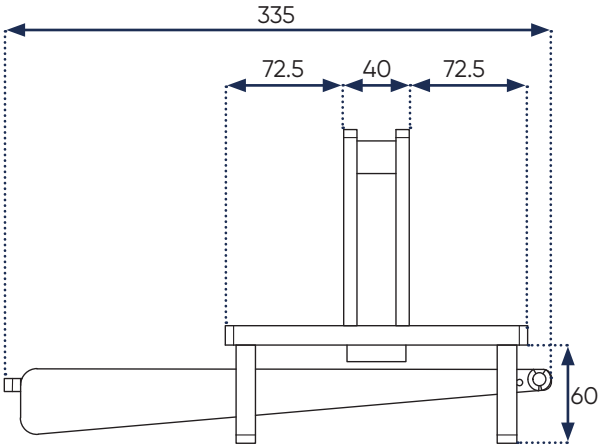
Table Head



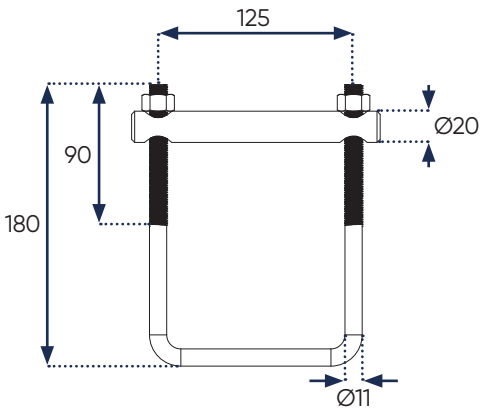


Head VR





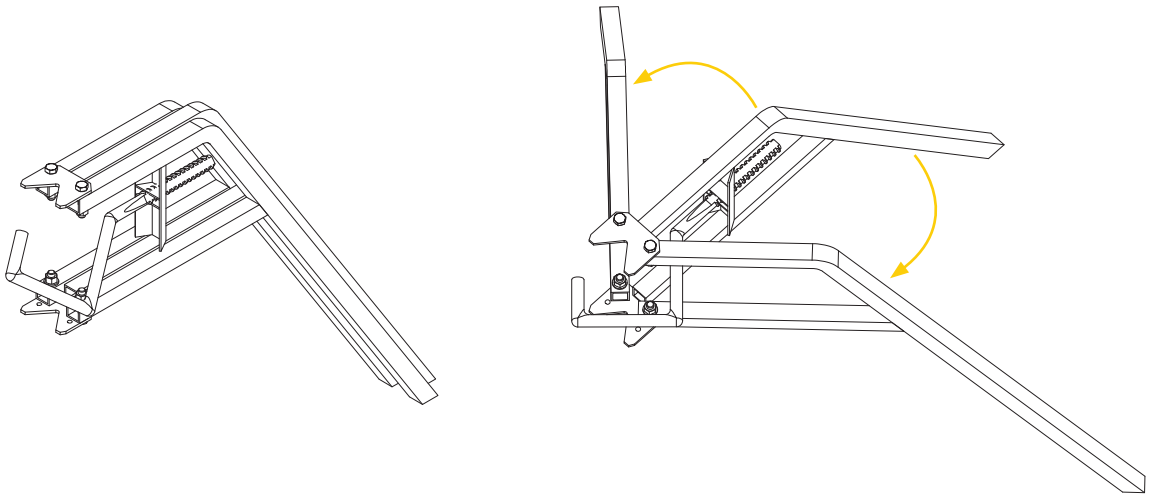
Narrow Connection Unit



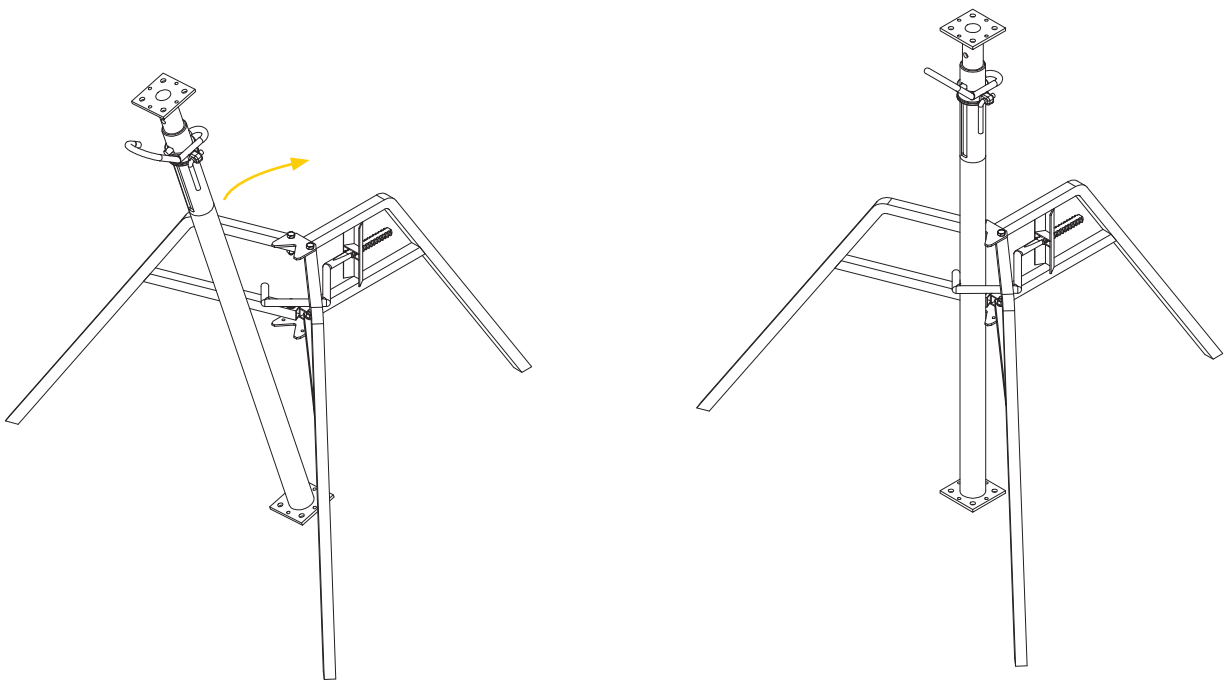
5. ASSEMBLY DETAILS

5. Assembly Details

Props and Tripod Installation

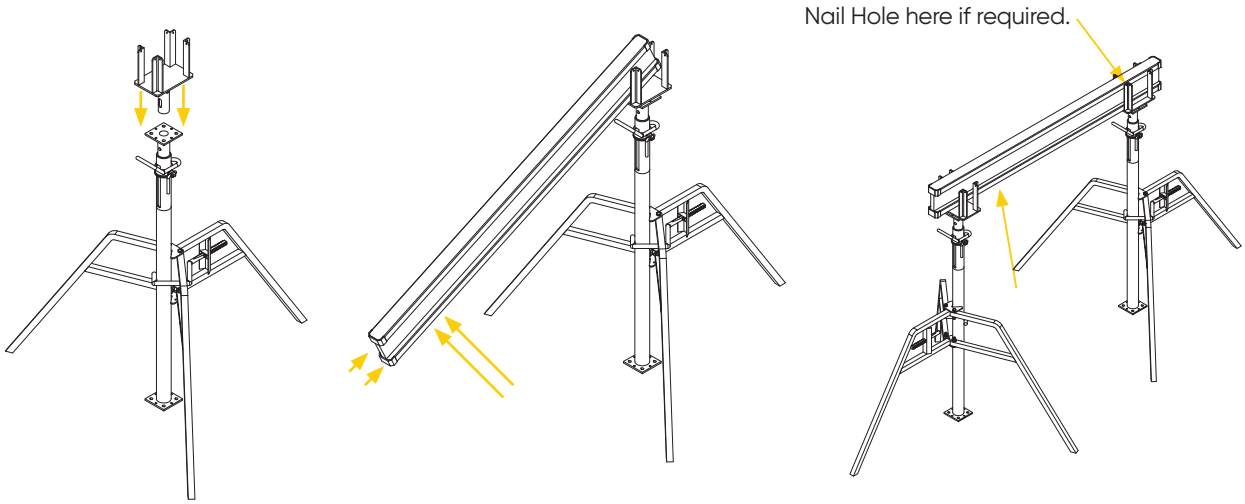


The tripod is closed for transportation. Open up the legs until the tripod can stand by itself. When the tripod is standing by it's self, hook in the prop to start the building process. May need more than one tripod to aid in quick setup.

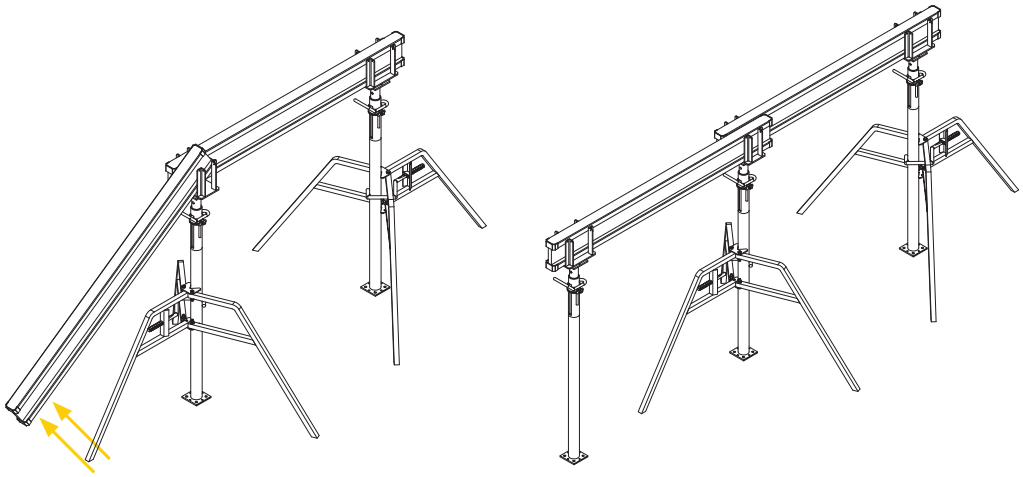


5. Assembly Details

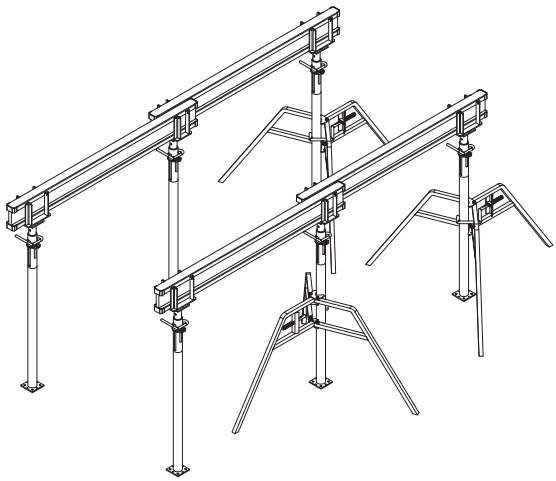
Installation of Beams



Insert the fork head into the prop at the top and lock with the pin. Once the fork head is installed, lift the P20 beam over the fork head legs and slide the end into the fork head. Place the prop, tripod, and fork head under the opposite side of the primary beam.

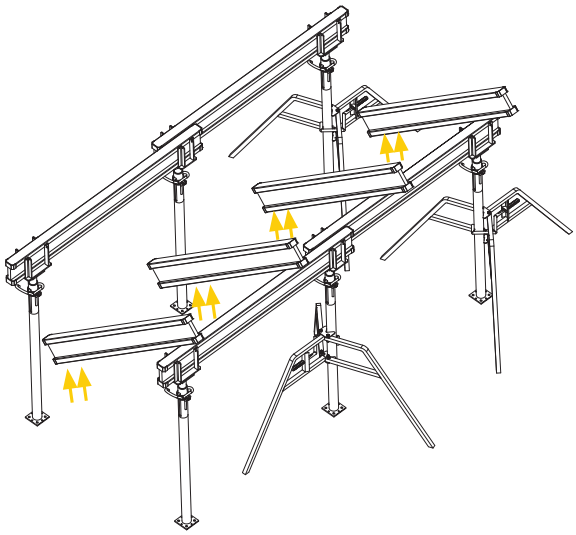


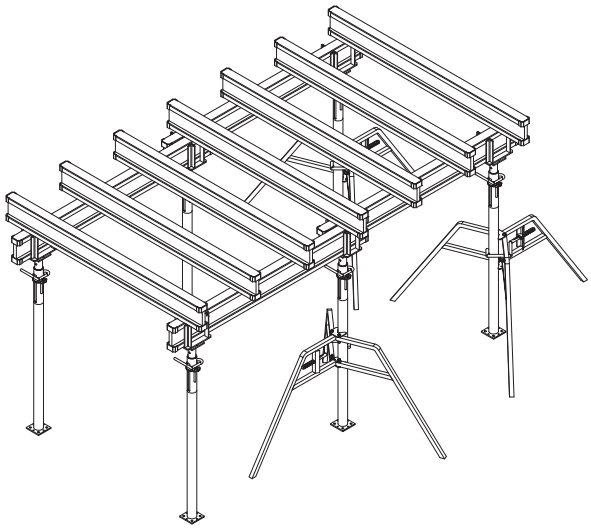
Lift the P20 beam into the next prop and Fork Head. Make sure the prop and beam are stable. Repeat the previous steps until there are two rows of P20 beams forming two rows of bearers.



5. Assembly Details

Installation of Beams



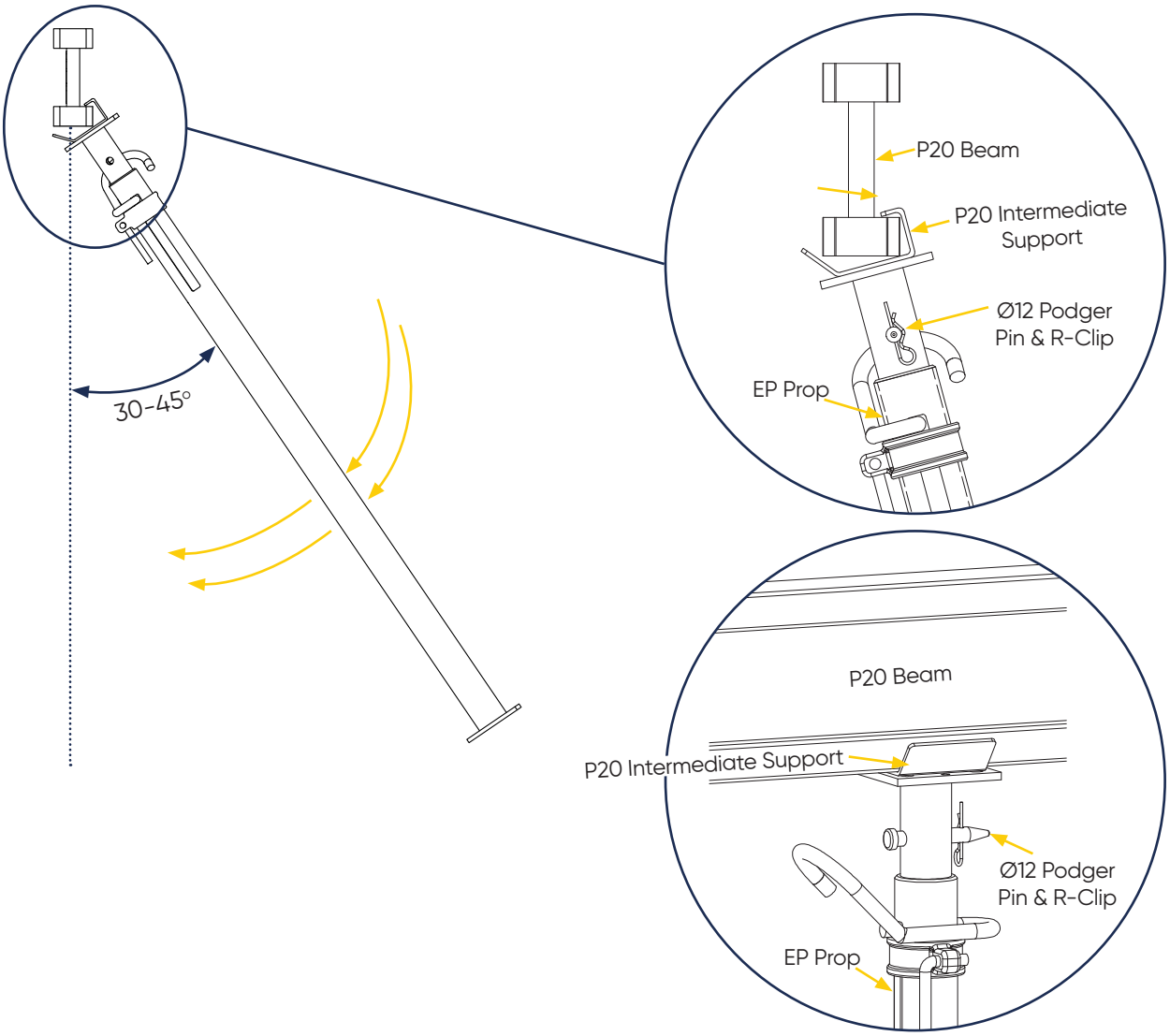


Lift P20 beams (joists) perpendicular to the already-formed bearers. The P20 beam can be nailed to existing products on the side, or a GHI H20 beam clamp can be applied (refer to page 4.6). An Acrow Flex Deck bay has been constructed.

5. Assembly Details

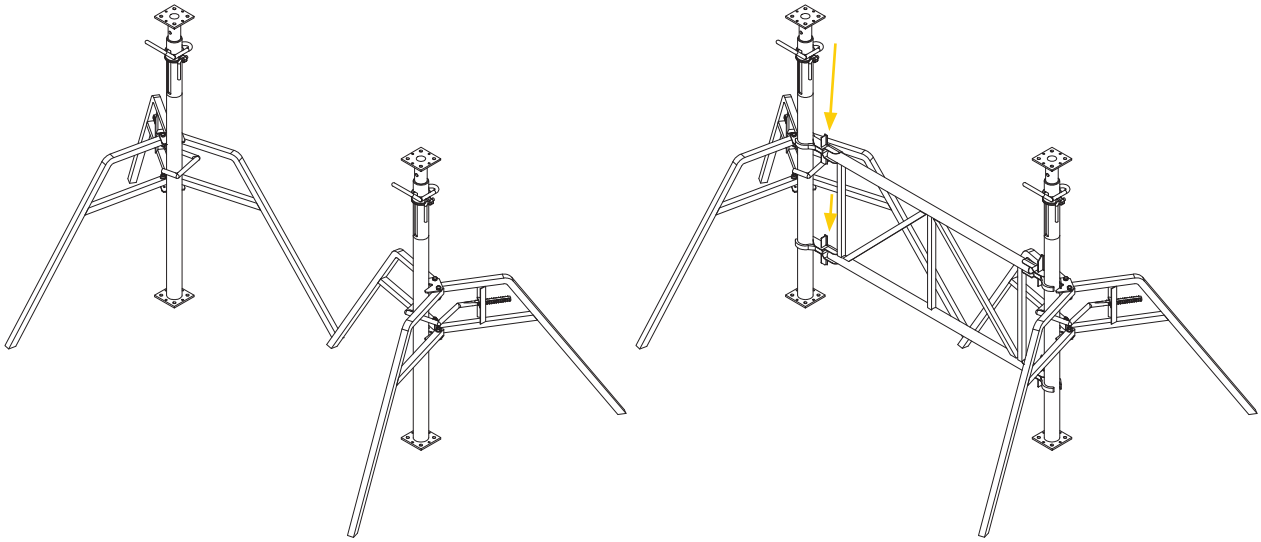
Installation of P20 Intermediate Support

Prior to installation, the P20 Intermediate support needs to be inserted into the top of the prop. After the head is locked, slip the prop onto the bottom of the P20 beam at an angle of between 30 and 45 degrees.

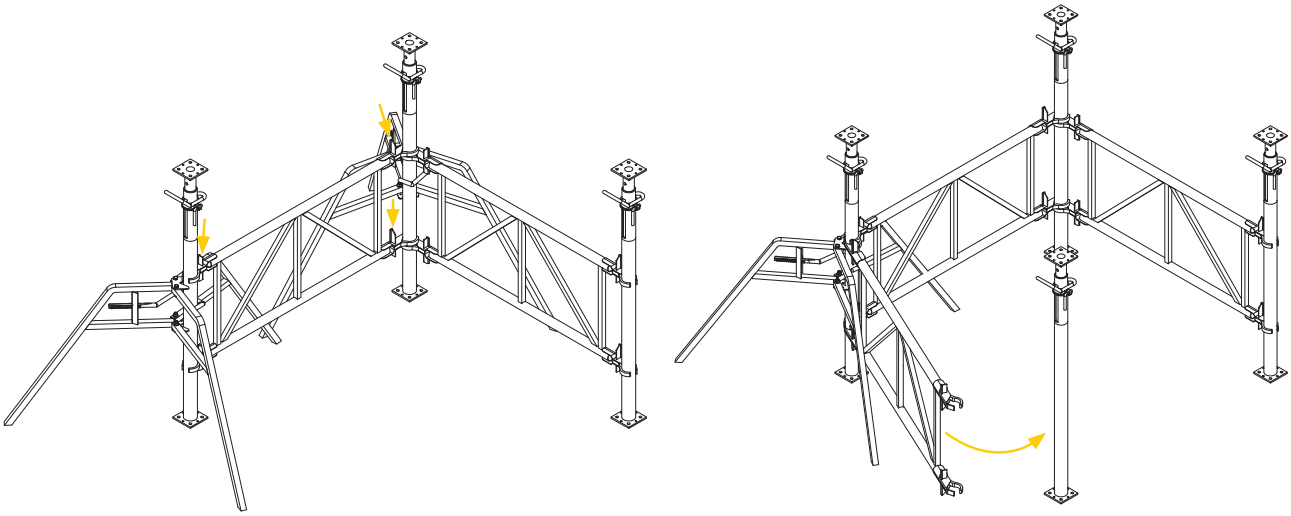


5. Assembly Details

Installation of Props into tower formation



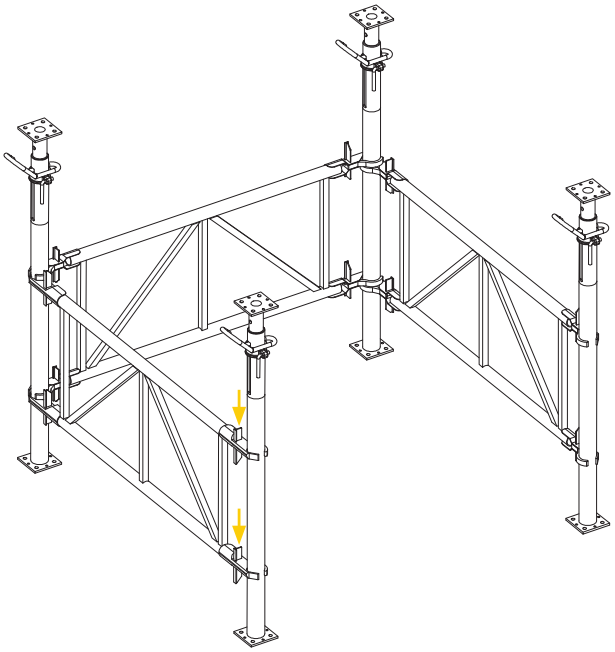
Put the tripod and props together. After it is put together, fasten the Bracing to each side of the prop. To secure the bracing to the prop, hammer down the pin. After finishing, the tripod can be taken out of one support. Reassemble the tripod and prop, then join the subsequent bracing. Hammer again to lock. Carry out the previous action again. Be sure to swing the bracing to the next prop after attaching one side.

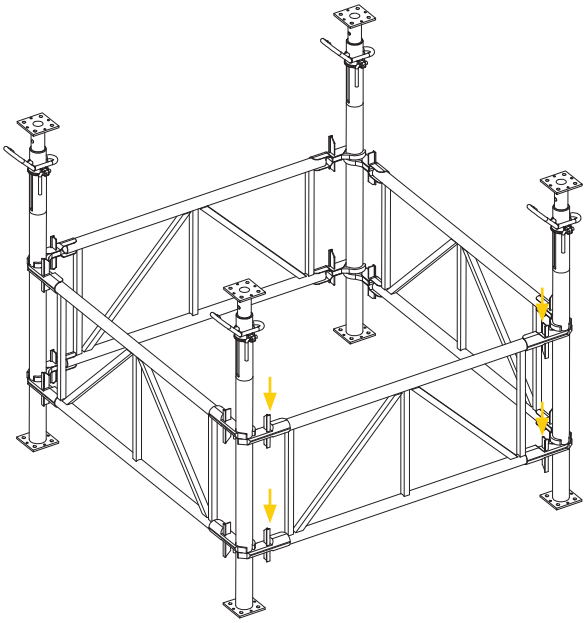


5. Assembly Details

Installation of Props into tower formation

Re-lock using a hammer at the pins. All prop tripods can be removed after this is locked because the structure ought to be sturdy enough to stand on its own. The tower Formation is finished once the last bracing is put in place.

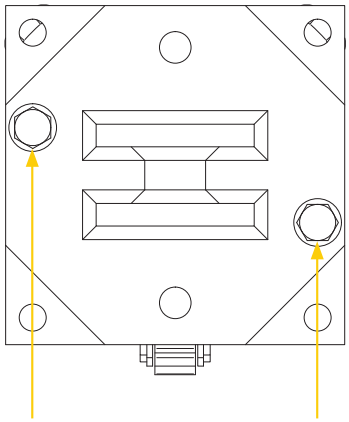




5. Assembly Details

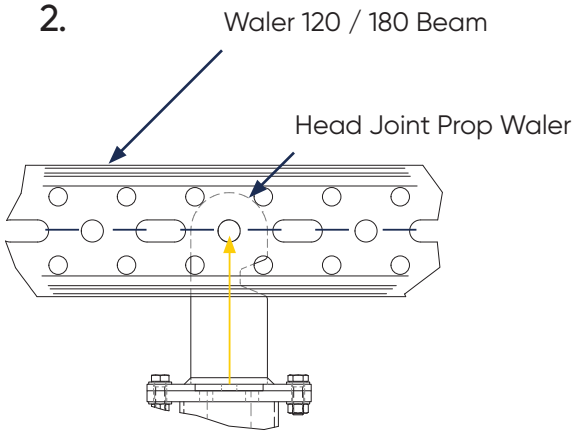
Prop Joint Head Waler Installation

1.



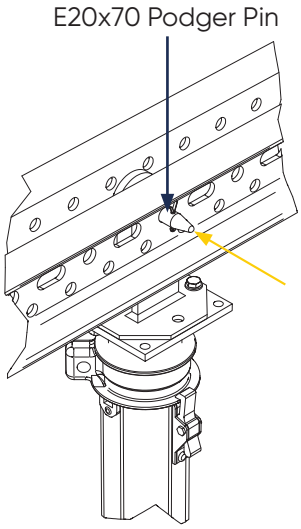
Using 2 x M10x50mm Bolts, Nuts, and Washers - Install Head Joint Prop Waler to top of Alu-Prop.

2.



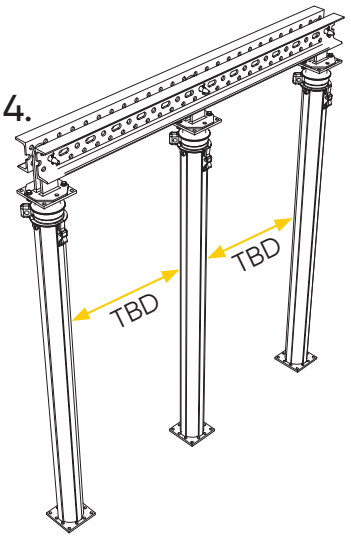
Insert Head Joint Prop Waler upper flange into Waler and centre about midplane holes.

3.



Install E20x70 Podger Pin through centre of Head Joint Prop Waler flange and secure with cotter pin.

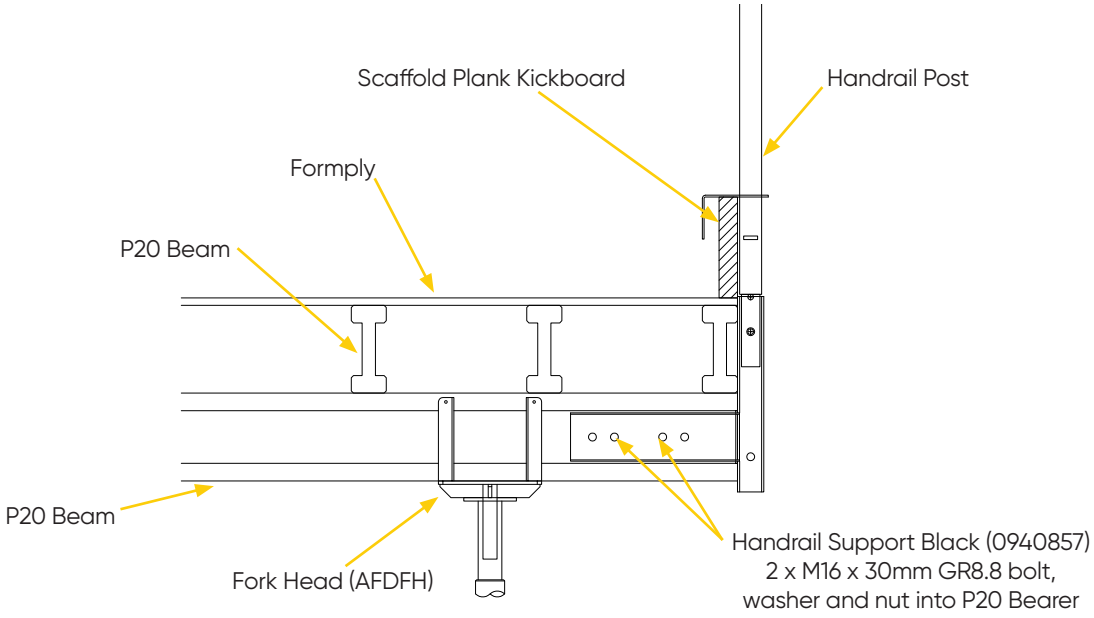
4.



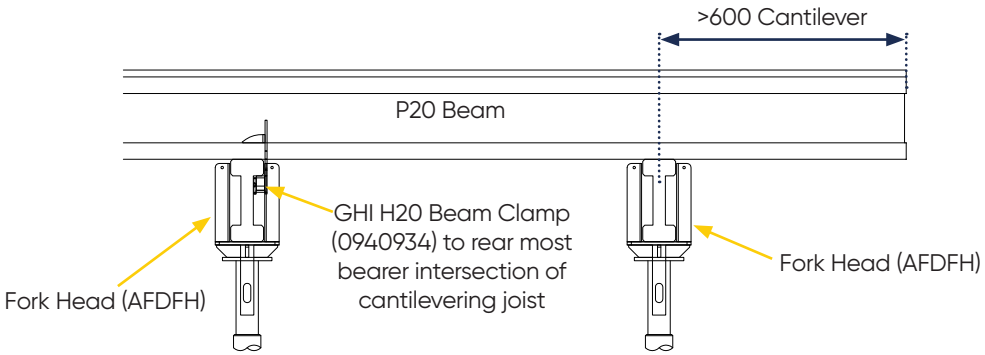
Install Alu-Prop with Head Joint Prop Waler connections in series with spacing determined by engineer.

5. Assembly Details

Handrail Assembly Details



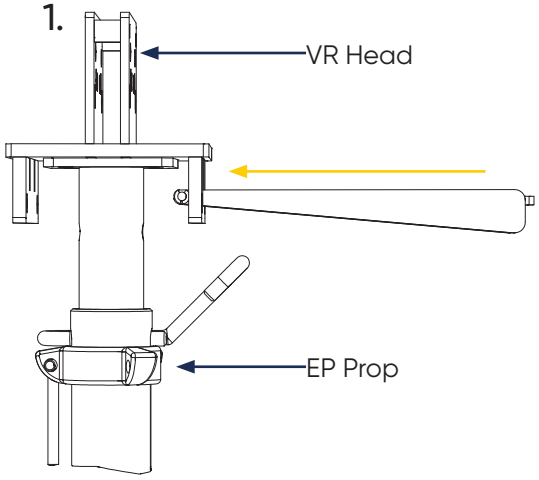
Cantilever Assembly Details



5. Assembly Details

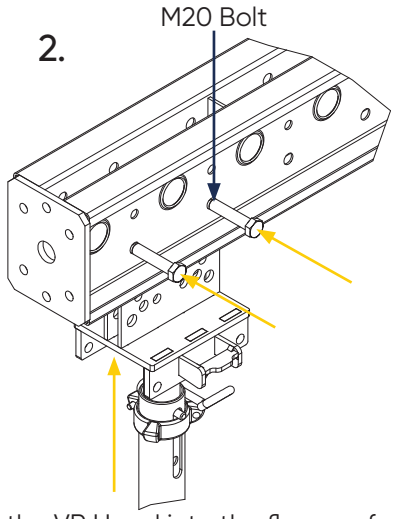
Table Head Installation

1.



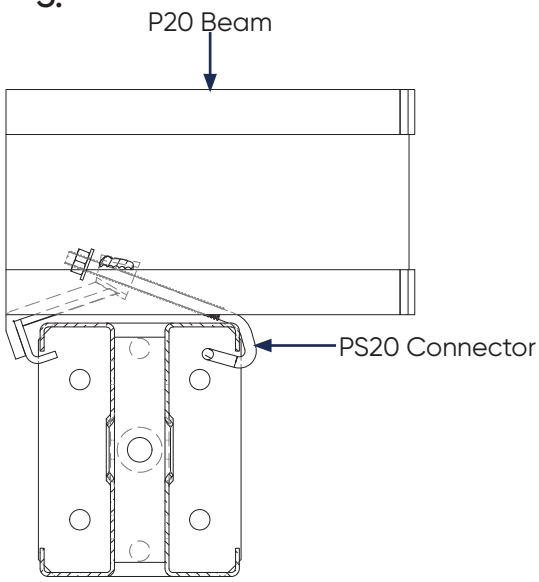
Secure VR Head to EP Prop end plate using the captive wedge. Ensure the connection is secure by tapping wedge with a hammer.

2.



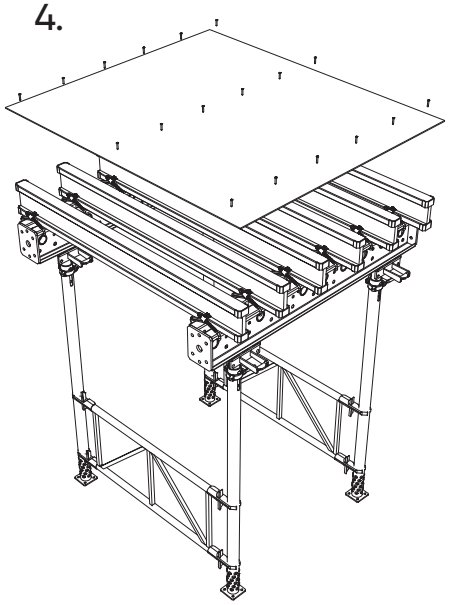
Insert the VR Head into the flange of a Slim Max Soldier. Secure with 2 x M20 Bolts.

3.



Secure P20 Beams to soldier body using PS20 Connector. Place bent rod and plate around Soldier's lip and tighten both M10 nuts.

4.

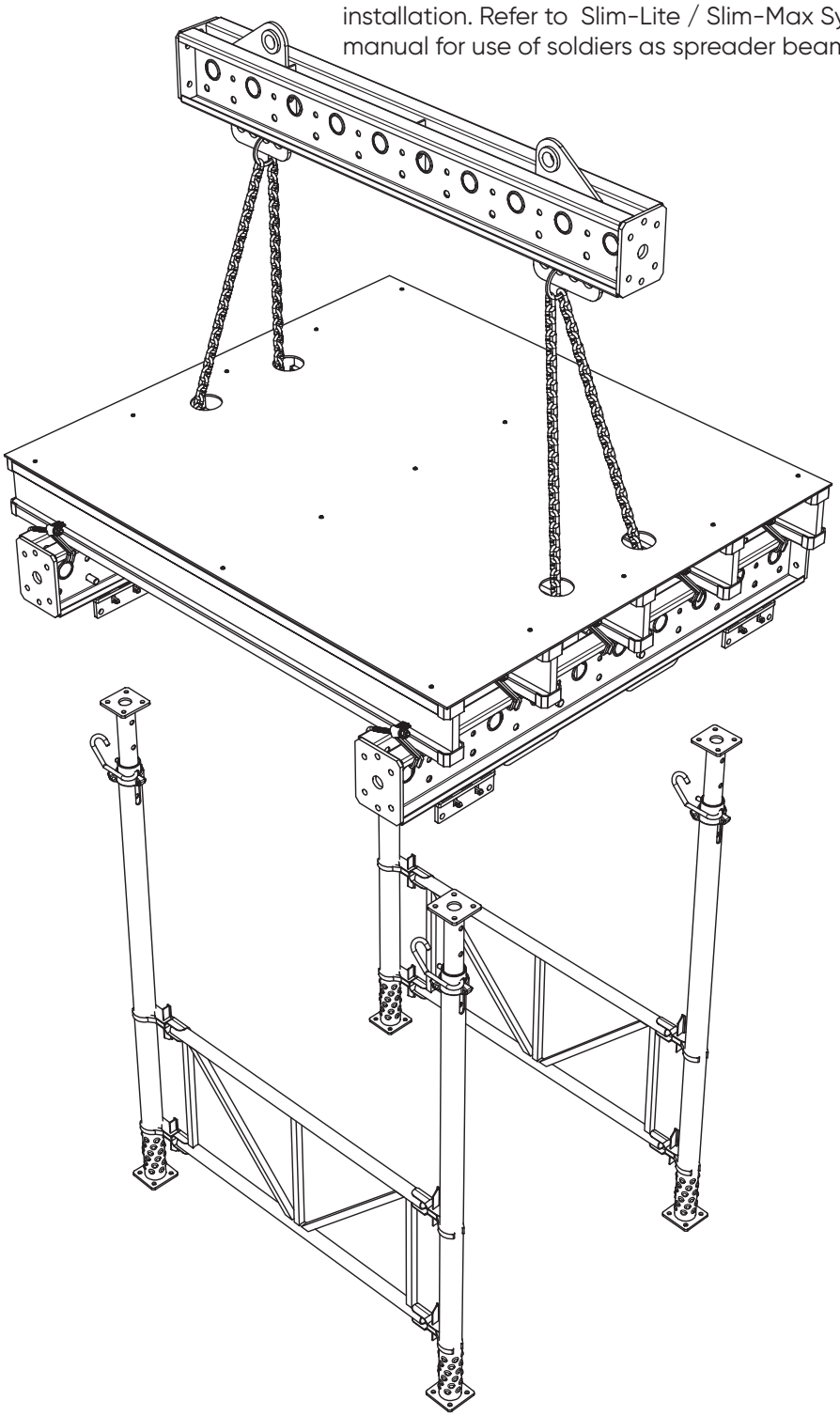


Fix decking to P20 beams by installing self tapping screws.

5. Assembly Details

Table Head Lifting Installation

Note: Spreader beam may be required for installation. Refer to Slim-Lite / Slim-Max System manual for use of soldiers as spreader beams.

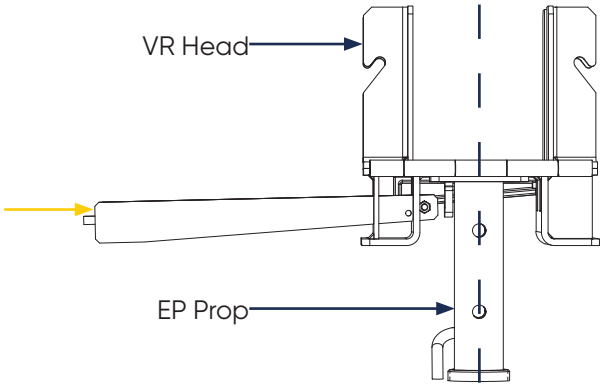


Platforms can be preassembled on the ground then lifted into place utilising Slim-Max Lifting Brackets or Lifting Beam Connectors. Ensure wedges of table heads are in the open position ahead of lifting.

5. Assembly Details

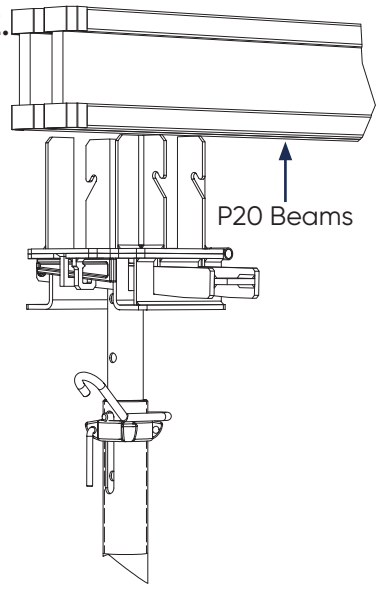
VR Head Installation

1.



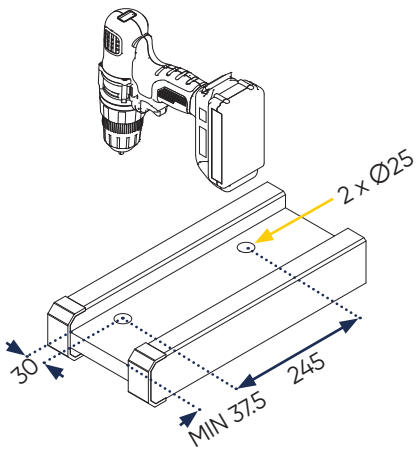
Centre EP Prop below VR head and close wedge across the Prop's endplate. Ensure connection is tight by tapping wedge with a hammer.

2.



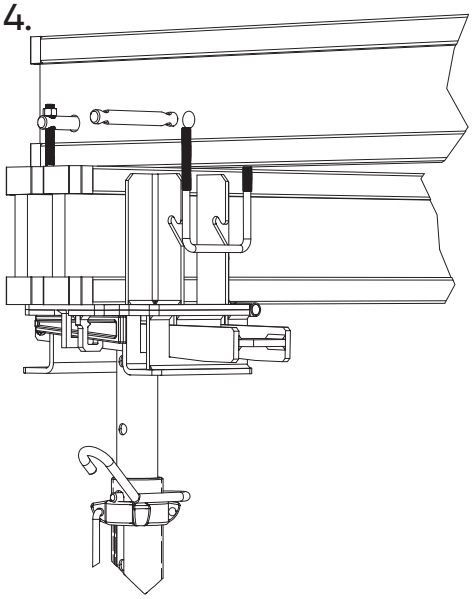
Place to parallel P20 Beams into VR Head's fork making sure slots are transversal to the beam's direction.

3.



Drill 2 x 25mm holes in a P20 Beams web using the dimensions noted above. Allow a distance of 1.5 x hole diameter from edge to avoid splitting.

4.

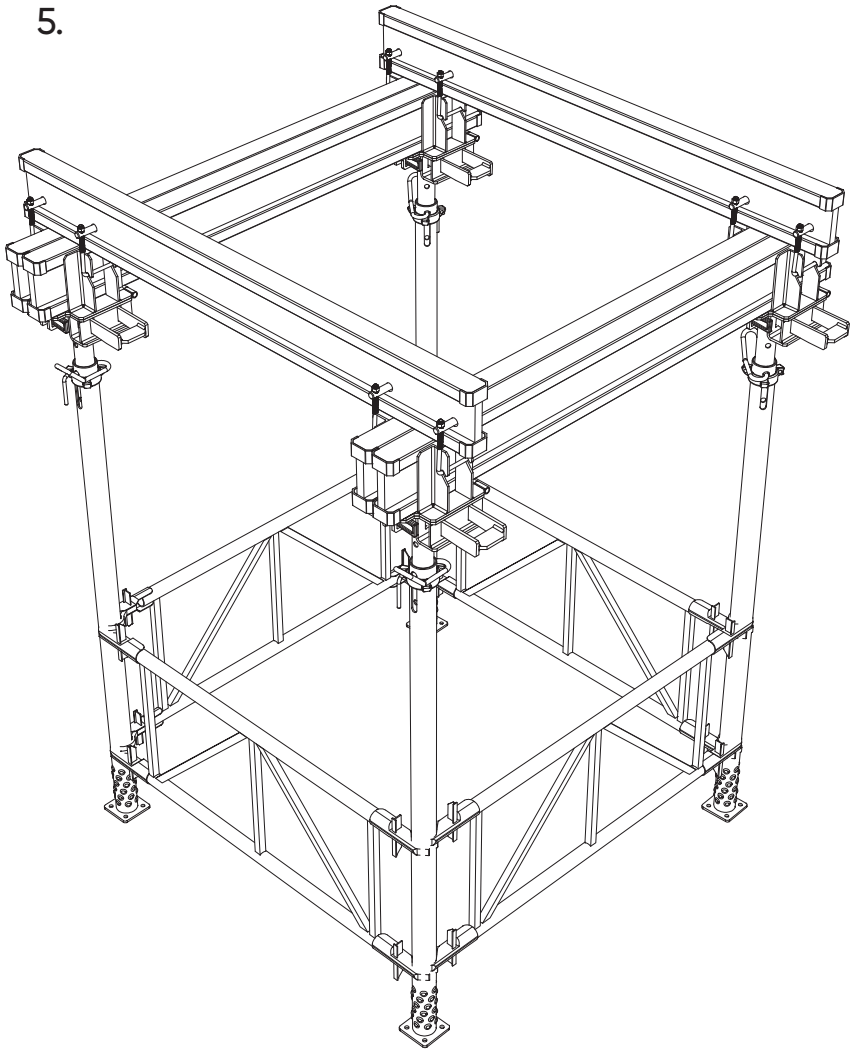


Place a third P20 Beam across the top of the previously installed beams, centring about the slotted sides of the VR head fork. Install Narrow VR Connection Unit through web of the top P20 Beam using drilled holes.

5. Assembly Details

VR Head Installation Cont'd.

5.



When forming a tower, ensure EP Props are appropriately braced and remain plumb to one another.

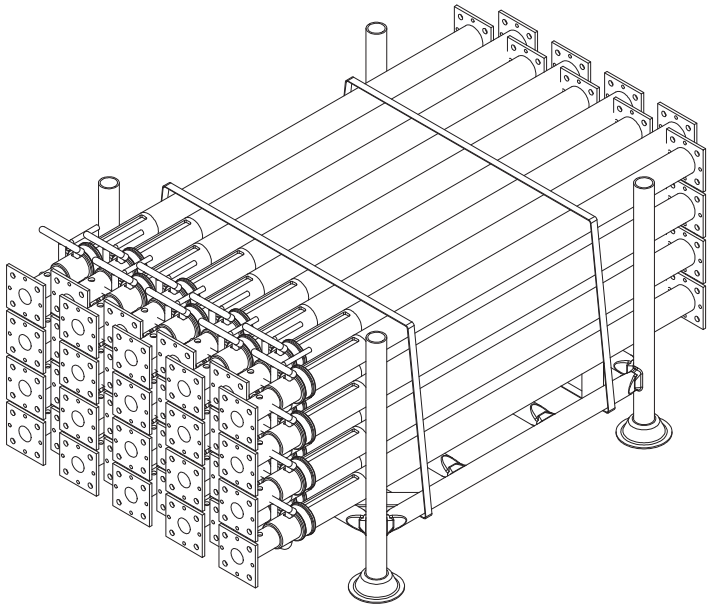
6. TRANSPORT & HANDLING

6. Transport & Handling

EP Prop Transport

The Acrow stillage is used to store a set number of items per a stillage. When a stillage is not used ensure items are bundled and placed on suitable dunnage. 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 to each other.
- Only pack and stack similar matching lengths per stillage/bundle. Do not mix different sizes or types in one stillage/bundle.
- Ensure every stillage/bundle load does not exceed the advised table below.
- Secure assembled items onto stillage/bundle 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.



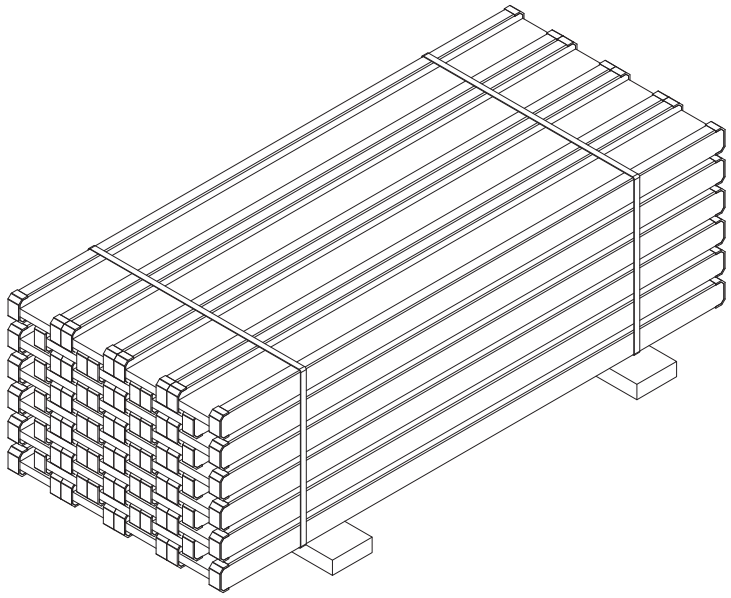
DESCRIPTION	UNIT MASS (KG)	QTY PER STILLAGE	TOTAL MASS PER STILLAGE (KG)	ACROW STILLAGE TYPE
2.5m EP Prop	15.3	40	612	SP
3.5m EP Prop	19.8	40	792	SP
4.0m EP Prop	22.4	35	784	SP
4.5m EP Prop	27.4	35	959	SP
5.5m EP Prop	36.6	30	1281	SP
3.5m EP Prop quick strike	21.7	40	868	SP

6. Transport & Handling

P20 Beam Transport

The Acrow stillage is used to store a set number of items per a stillage. When a stillage is not used ensure items are bundled and placed on suitable dunnage. 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 to each other.
- Only pack and stack similar matching lengths per stillage/bundle. Do not mix different sizes or types in one stillage/bundle.
- Ensure every stillage/bundle load does not exceed the advised table below.
- Secure assembled items onto stillage/bundle 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.



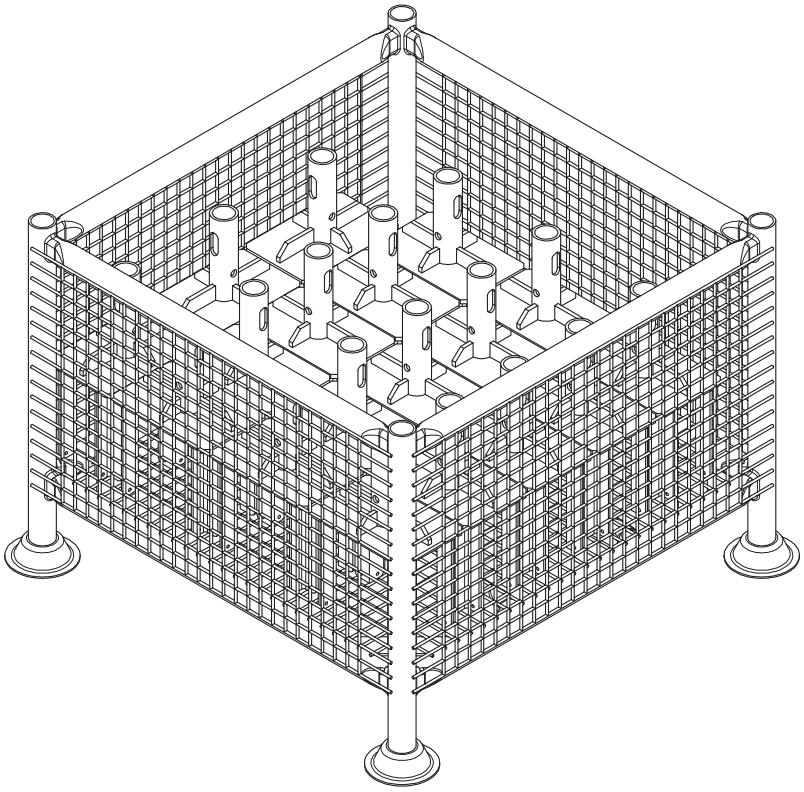
DESCRIPTION	UNIT MASS (KG)	QTY PER STILLAGE	TOTAL MASS PER STILLAGE (KG)	ACROW STILLAGE TYPE
5.9m Acrow P20 Beam	29.5	40	1180	Bundle
4.9m Acrow P20 Beam	24.5	40	980	Bundle
4.5m Acrow P20 Beam	22.5	40	900	Bundle
3.9m Acrow P20 Beam	19.5	40	780	Bundle
3.6m Acrow P20 Beam	18.0	40	720	Bundle
3.3m Acrow P20 Beam	16.5	40	660	Bundle
2.9m Acrow P20 Beam	14.5	40	580	Bundle
2.65m Acrow P20 Beam	13.3	40	532	Bundle
2.45m Acrow P20 Beam	12.3	40	492	Bundle
2.15m Acrow P20 Beam	10.8	40	432	Bundle
1.9m Acrow P20 Beam	9.5	40	380	Bundle
1.45m Acrow P20 Beam	7.3	40	292	Bundle

6. Transport & Handling

Fork Head Transport

The Acrow stillage is used to store a set number of items per a stillage. When a stillage is not used ensure items are bundled and placed on suitable dunnage. 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 to each other.
- Only pack and stack similar matching lengths per stillage/bundle. Do not mix different sizes or types in one stillage/bundle.
- Ensure every stillage/bundle load does not exceed the advised table below.
- Secure assembled items onto stillage/bundle 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.



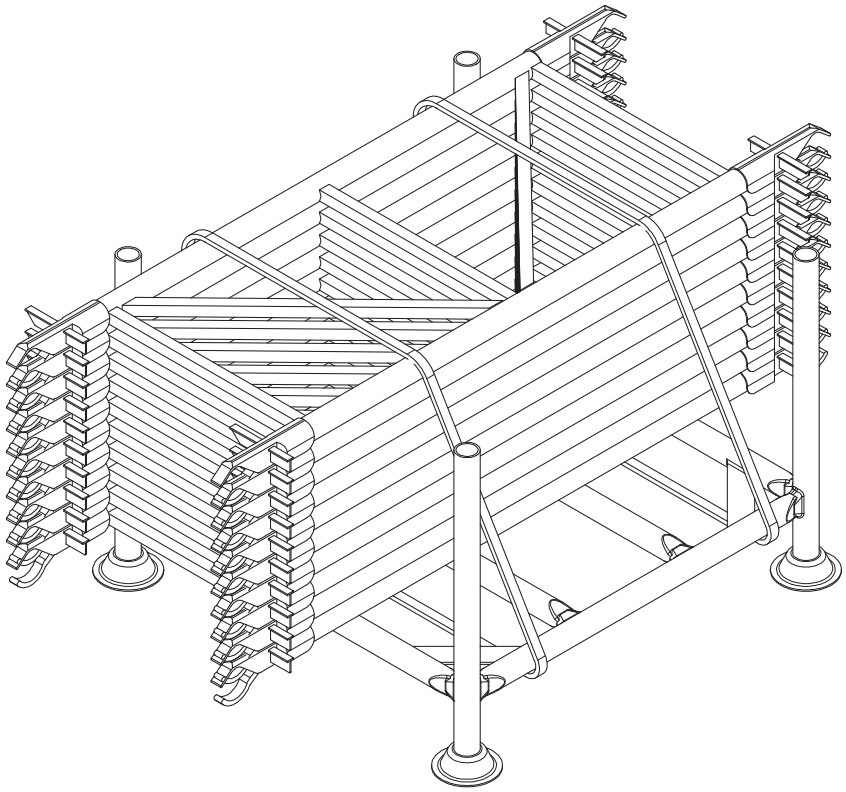
DESCRIPTION	UNIT MASS (KG)	QTY PER STILLAGE	TOTAL MASS PER STILLAGE (KG)	ACROW STILLAGE TYPE
Acrow Fork Head	2.9	23	66.7	MEP

6. Transport & Handling

Brace Transport

The Acrow stillage is used to store a set number of items per a stillage. When a stillage is not used ensure items are bundled and placed on suitable dunnage. 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 to each other.
- Only pack and stack similar matching lengths per stillage/bundle. Do not mix different sizes or types in one stillage/bundle.
- Ensure every stillage/bundle load does not exceed the advised table below.
- Secure assembled items onto stillage/bundle 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 Frame 0.75	9.1	20	182	MP
Brace Frame 1.50	14.0	10	140	SP
Brace Frame 1.57	15.3	10	153	SP
Brace Frame 2.32	22.2	10	222	SP

6. Transport & Handling

P20 Beam Colour Identification Chart

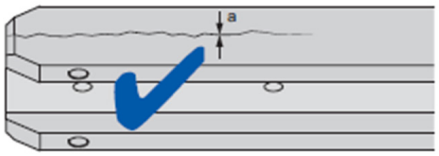
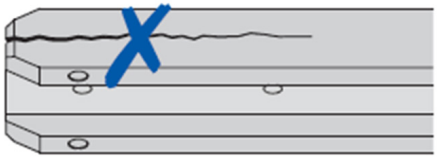
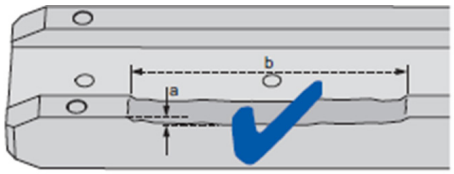
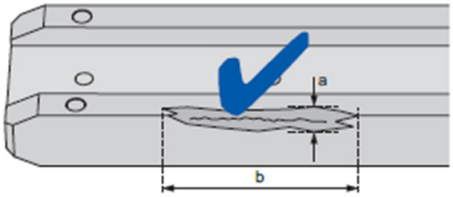
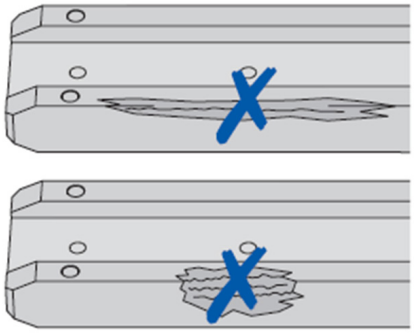
DESCRIPTION	PRODUCT CODE	MASS (kg)	COLOUR	
5.9m Acrow P20 Beam	P20B59	29.5	B41 BLUEBELL	
4.9m Acrow P20 Beam	P20B49	24.5	N14 WHITE	
4.5m Acrow P20 Beam	P20B45	22.5	P21 SUNSET PINK	
3.9m Acrow P20 Beam	P20B39	19.5	G46 CITRONELLA	
3.6m Acrow P20 Beam	P20B36	18.0	X42 BISCUIT	
3.3m Acrow P20 Beam	P20B33	16.5	N23 NEUTRAL GREY	
2.9m Acrow P20 Beam	P20B29	14.5	P42 MULBERRY	
2.65m Acrow P20 Beam	P20B265	13.3	X15 ORANGE	
2.45m Acrow P20 Beam	P20B245	12.3	X54 BROWN	
2.15m Acrow P20 Beam	P20B215	10.8	N41 OYSTER	
1.9m Acrow P20 Beam	P20B19	9.5	R13 SIGNAL RED	
1.45m Acrow P20 Beam	P20B145	7.3	G51 SPRUCE	

7. MAINTENANCE & INSPECTION

7. Maintenance & Inspection

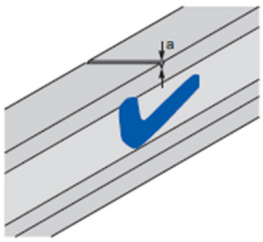
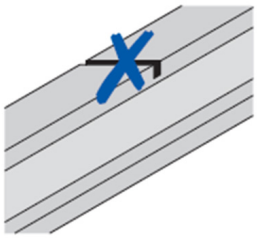
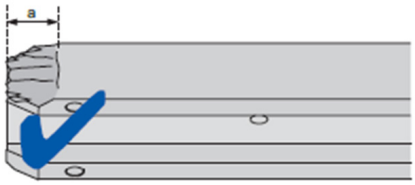
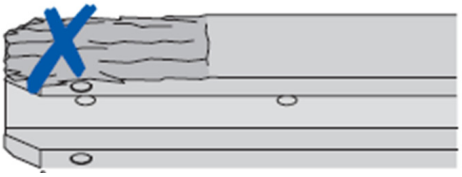
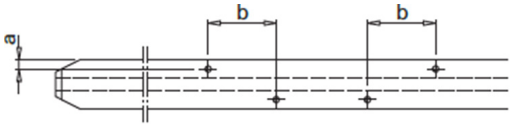
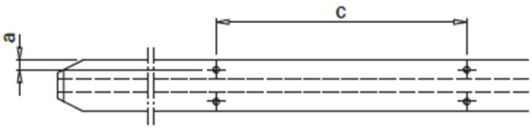
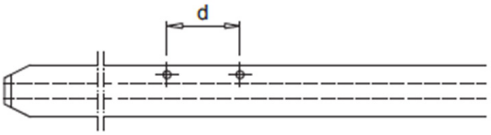
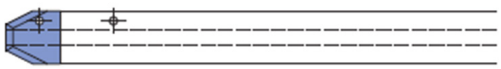
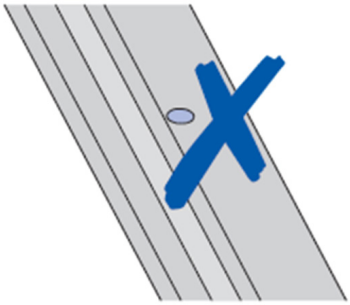
P20 Beams

Visual inspection for possible defects is required to be conducted on all hired P20 beams to ensure their structural integrity. Both flanges and the web should be checked. The following tables define the extent of permissible damages that has no effects on the P20 beam on load-bearing capacity. Information on when the P20 beam should be removed and destroyed are also included in these tables. The P20 beam should be removed and destroy if any other defects are found beyond these listed in the following tables:

PERMISSIBLE DAMAGES	REMOVE AND DESTROY
CRACKS	
Cracks parallel to flange, permissible up to width a = 1mm, subject the flange is intact and cannot be parted. 	Cracks parallel to the flange are not permissible if width of crack exceeds 1mm. If the flange can be parted at the crack.  Angled cracks are not permissible.
SPLINTERING @ SIDES	
Permissible up to depth a = 5mm and length b= 100mm on one side. 	Not permissible if the depth of the splintering at side exceeds 5mm depth or 100mm in length.
ANGLED SPLINTERING ACROSS THE EDGE	
Permissible up to a = 5mm across the diagonal and up length b = 100mm. 	Not permissible if depth of angled splintering exceeds 5mm and its length exceeds 100mm. 

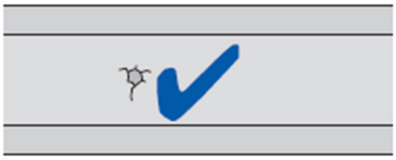
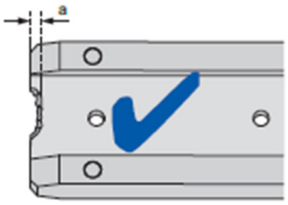
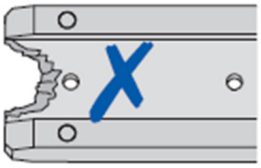
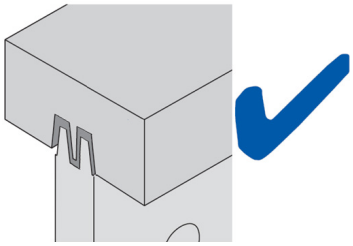
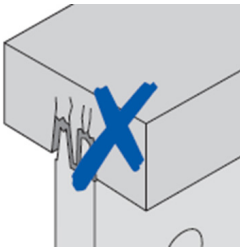
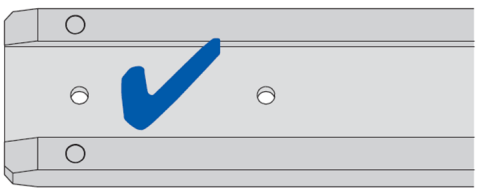
7. Maintenance & Inspection

P20 Beams

PERMISSIBLE DAMAGES	REMOVE AND DESTROY
SAW CUTS	
Superficial saw cuts up to depth a = 1mm are permissible. 	Saw cuts more than 1mm are not permissible. 
FLANGE END	
Splintering up to a = 30mm is permissible. Damage to the plastic cap has no effect on the beam load-bearing capacity. 	Not permissible if the length of splintering exceeds 30mm. 
DRILLED HOLES	
Only permissible for attaching Acrow components  Waling attachment with beam screw a = 15mm, b = 112mm, Hole max Ø 10mm  Attachment of table head with beam screw a = 15mm, c = 396mm, Hole max Ø 10mm  Attachment of profiled timber formers d = 133mm, Hole max Ø 12mm  Holes in the plastic cap Hole max Ø 10mm	Not permissible unless to attach Acrow components. 

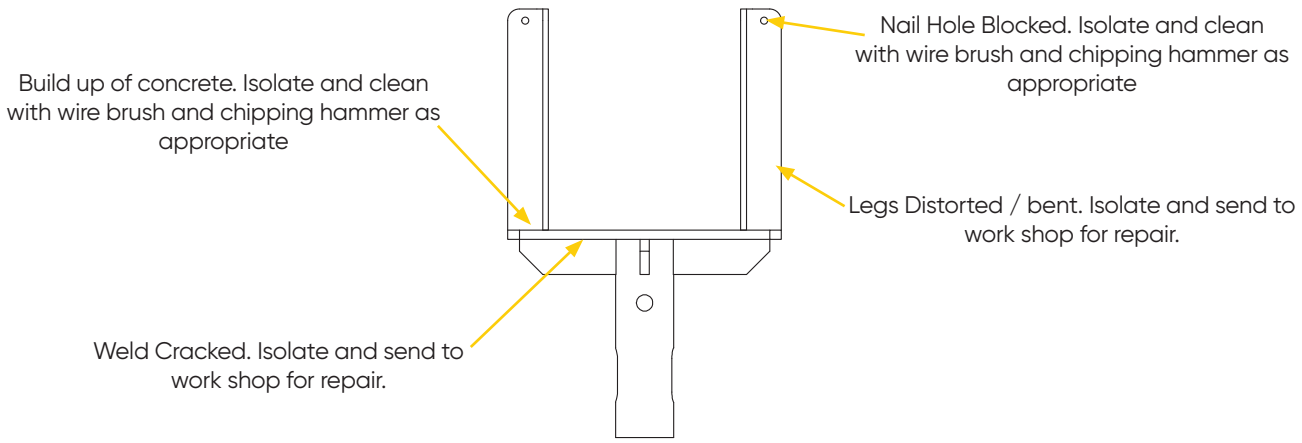
7. Maintenance & Inspection

P20 Beams

PERMISSIBLE DAMAGES	REMOVE AND DESTROY
DAMAGE TO WEB	
Permissible only if the hole is slight and at one side of the beam. 	Holes through the web are not permissible. Large holes are not permissible.
DAMAGE TO WEB END	
Permissible up to max a = 20mm 	Not permissible if the damage exceeds 20mm 
DETACHMENT OF FLANGE FROM WEB	
Web should be fully attached to flanges. 	Any sorts of detachments are not acceptable. 
DRILLED HOLES IN WEB	
Standard beam holes, 2 drilled holes, Ø21.5mm 	Frequent drilled holes are not permissible

7. Maintenance & Inspection

Fork Head Maintenance



NAME: _____ CHECKED DATE: _____

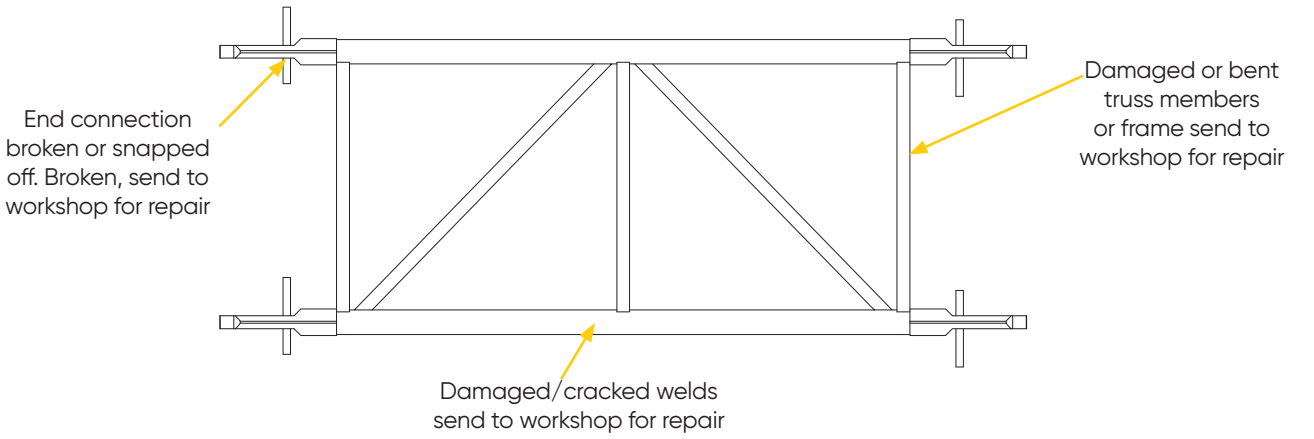
Generally, visual inspection checking for the possible faults listed below. Please tick or cross the checked box.

POSSIBLE FAULTS	DAMAGE LIMITS FOR REPAIR	RECOMMENDED ACTION	CHECKED
Build up of concrete or other matter	No build up permitted on Fork Head	Remove build up with wire brush and scraper	
Cracked or broken welds	Cracked or broken welds are not permitted	Grind off welds and re-weld	
Legs bent / twisted	Legs must be straight	Send to workshop to be straighten, if cant be straighten replace	
Damaged tube/post	Damaged Post/Tube not permitted	Send to workshop to be fixed, if it can't replace part	

Issues / Notes:

7. Maintenance & Inspection

Brace Frame Maintenance



NAME: _____ CHECKED DATE: _____

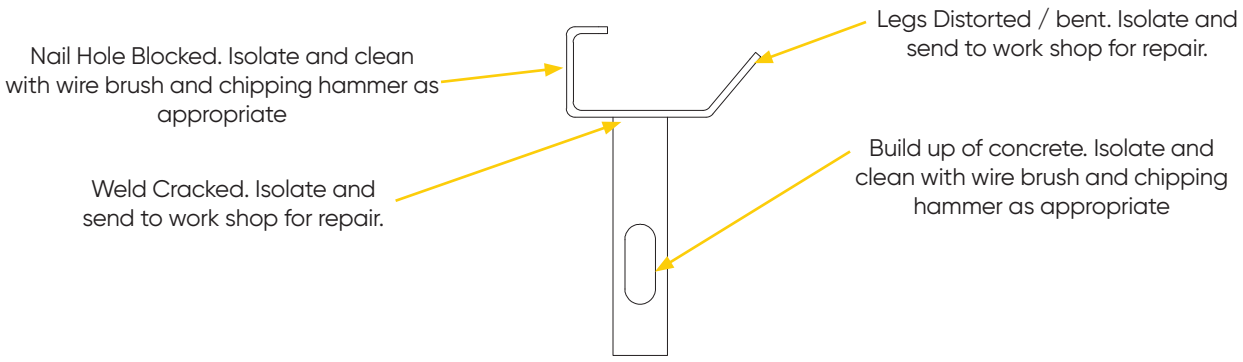
Generally, visual inspection checking for the possible faults listed below. Please tick or cross the checked box.

POSSIBLE FAULTS	DAMAGE LIMITS FOR REPAIR	RECOMMENDED ACTION	CHECKED
Build up of concrete or other matter	No build up permitted on truss members. All end connections must be clear of any concrete	Remove build up with wire brush and/or chipping hammer	
Bracing Frame bent or twisted	Bracing Frame must be straight and free of twist	Straighten if possible otherwise scrap. See WI-GE-103 for reference	
Damaged end connections or missing components	End connections must be intact with all components	Repair or replace any damaged ends and replace any missing components	
Cracked welds on Bracing Frame members	Cracked welds not permitted	Grind back cracked welds then re-weld	
Truss members damaged or bent	Truss members must be straight and undamaged	Straighten members or replace	

Issues / Notes:

7. Maintenance & Inspection

P20 Intermediate support Maintenance



NAME: _____ CHECKED DATE: _____

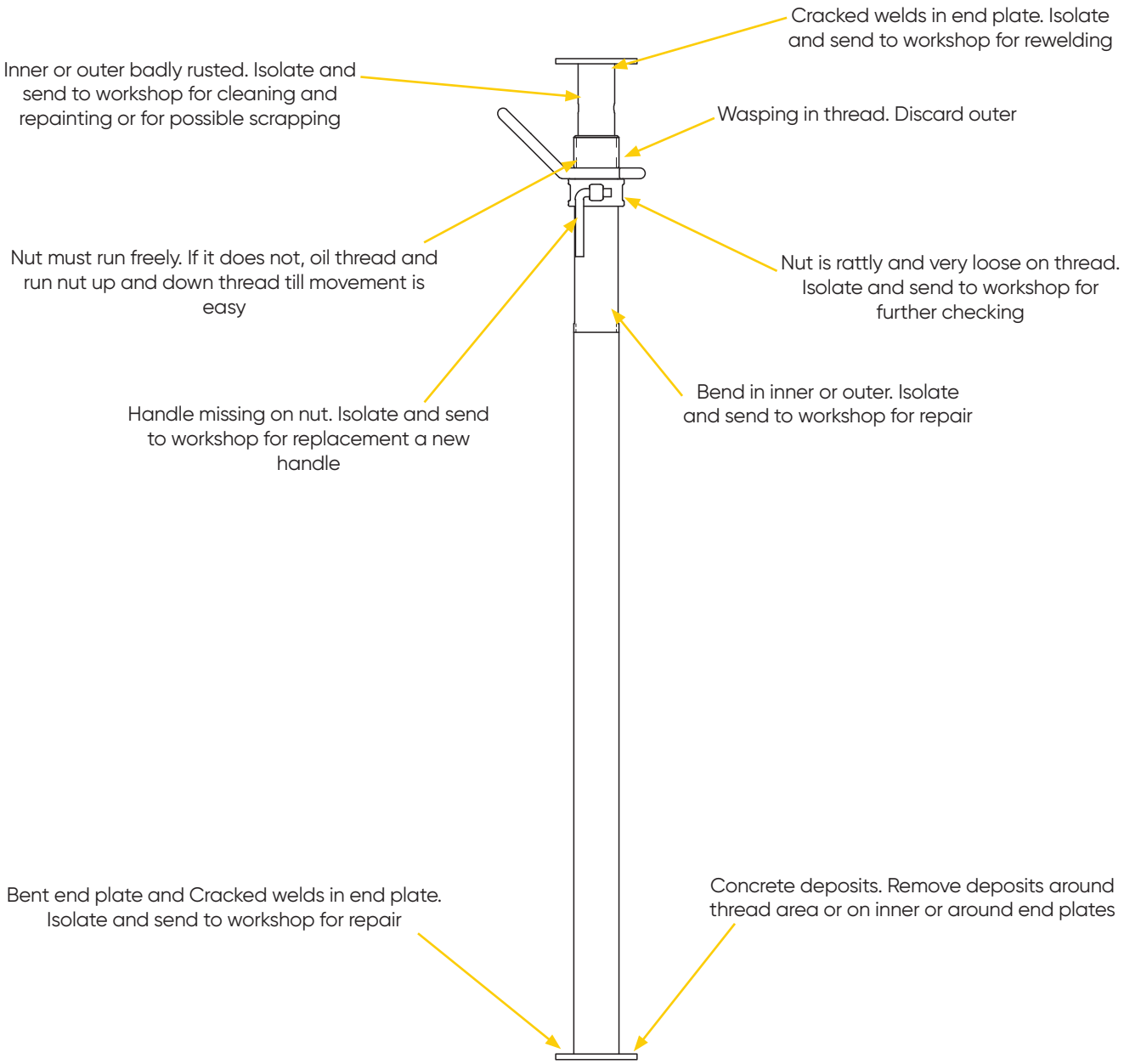
Generally, visual inspection checking for the possible faults listed below. Please tick or cross the checked box.

POSSIBLE FAULTS	DAMAGE LIMITS FOR REPAIR	RECOMMENDED ACTION	CHECKED
Build up of concrete or other matter	No build up permitted on Fork Head	Remove build up with wire brush and scraper	
Cracked or broken welds	Cracked or broken welds are not permitted	Grind off welds and re-weld	
Legs bent / twisted	Legs must be straight	Send to workshop to be straighten, if cant be straighten replace	
Damaged tube/post	Damaged Post/Tube not permitted	Send to workshop to be fixed, if it can't replace part	

Issues / Notes:

7. Maintenance & Inspection

EP Prop Maintenance



7. Maintenance & Inspection

EP Prop Inspection

NAME: _____ CHECKED DATE: _____

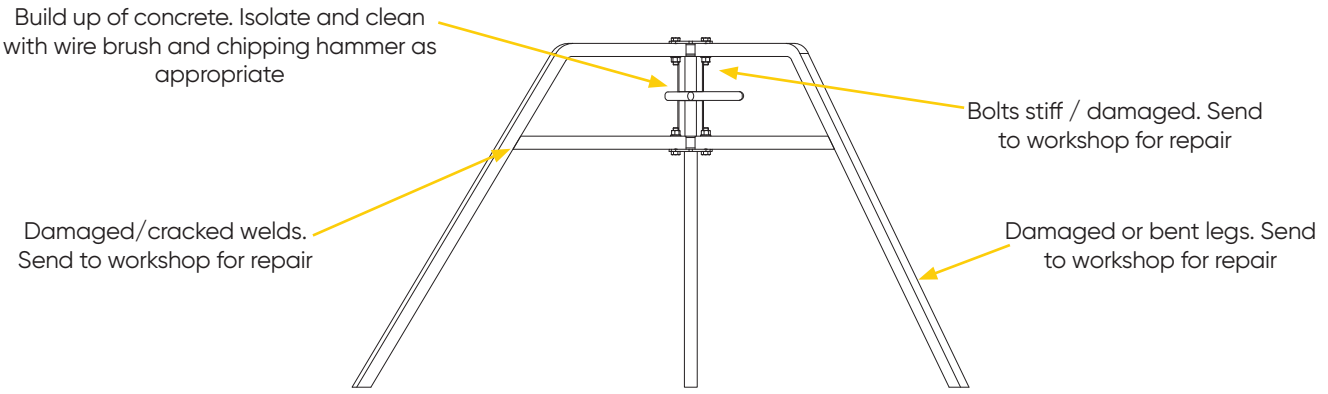
Generally, visual inspection checking for the possible faults listed below. Please tick or cross the checked box.

POSSIBLE FAULTS	DAMAGE LIMITS FOR REPAIR	RECOMMENDED ACTION	CHECKED
Pin bent	Prop Pin must be straight	Replace with new Pin & Loop	
Bent inner or outer	Bend in prop fully opened must not exceed L/200	Straighten on flypress otherwise scrap	
Bent end plate	None, plates must be straight and square	Straighten	
Indentations of tube	Less than 3.5mm	Move with insert dolly, if unsuccessful scrap	
Wasping in thread	Pin must be able to slide freely in slot	If wasping prevents pin sliding freely scrap outer	
Cracked welds on end plates	Any cracked or broken welds unacceptable	Grind back reweld (See WI-GE-100)	
Inner does not slide freely	Inner must slide freely	Seek cause (bend, indentation etc) and rectify	
Nut difficult to turn	Nut must turn Freely	Ensure thread is clear, oil thread and run nut up & down until movement is easy, otherwise replace nut	
Concrete deposits	Light deposits on un-threaded outer tube only	Remove any deposits from inner, thread area or end plates	
Rusty appearance	Visual assessment	Paint/touch-up paint	
Nut rattly and generally loose on thread	Nut must run freely but not excessively loose	Try new nut, if still excessively loose scrap outer	

Issues / Notes:

7. Maintenance & Inspection

Universal Prop Tripod Maintenance



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
Concrete buildup	No concrete build up permitted at connections	Remove concrete with wire brush and/or chipping hammer	
Damaged connections or missing components	Product must be intact with all components	Repair or replace any damaged parts and replace any missing components	
Cracked or broken welds	Cracked welds not permitted	Grind cracked weld and reweld	
Legs bent or twisted	Legs must be straight and free of twist	Straighten if possible otherwise scrap.	

Issues / Notes:

LOCATIONS

NEW SOUTH WALES

National Head Office
Formwork & Scaffold
2a Mavis Street
Revesby NSW 2212
P: 02 9780 6500
F: 02 9780 6499
E: info@acrow.com.au

Sydney
Screens Head Office
13-15 Vallance Street
St Marys NSW 2760
P: 02 9219 1566

Sydney
Above Scaffolding NSW
Unit 8, 303 Pacific Highway
Lindfield NSW 2070
P: 1300 30 15 20

Regional NSW
Industrial Access
34-35 Enterprise Crescent
Muswellbrook NSW 2333
P: 02 6540 9300

VICTORIA

Melbourne
Formwork, Scaffold & Screens
1651-1657 Centre Road
Springvale VIC 3171
P: 03 9582 2777
F: 03 9582 2790

QUEENSLAND

Brisbane
Formwork & Scaffold
280 Bilsen Road
Geebung QLD 4034
P: 07 3265 2266
F: 07 3865 0277

Stapylton
Screens & Formwork
14 Proximity Place
Stapylton, QLD 4207
P: 07 3865 0208

Stapylton
Industrial Scaffold
7 Proximity Place
Stapylton, QLD 4207
P: 07 3442 4000

Beenleigh
Industrial Scaffold
22a Spanns Road
Beenleigh QLD 4207
P: 07 3442 4000

Gladstone
Industrial Scaffold
86A Callemondah Drive
Gladstone QLD 4680
P: 07 4899 2900

Mackay
MI Scaffold Access & Rigging +
ATEC Training Centre
25-29 Production Drive
Paget QLD 4740
P: 07 4952 1966

Townsville
Industrial Scaffold
148-152 Webb Drive
Mount St John QLD 4818
P: 1300 11 22 47

SOUTH AUSTRALIA

Adelaide
Formwork & Scaffold
U1/Lot 403 Hanson Road
Dry Creek SA 5094
P: 08 8359 9700
F: 08 8359 1366

WESTERN AUSTRALIA

Perth
Formwork & Scaffold
11 Jackson Street
Bassendean WA 6054
P: 08 9373 7200
F: 08 9379 3488

TASMANIA

Hobart
Formwork & Scaffold
93 Lampton Avenue
Moonah TAS 7009
P: 03 6277 1212
F: 03 6277 1290

Launceston
Formwork & Scaffold
65 Boland Street
Launceston TAS 7250
P: 03 6324 8282
F: 03 6324 8250

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ENGINEERING & CONSTRUCTION

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