

TECHNICAL GUIDE ACROWALL 80

FORMWORK

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 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 **ACROWALL 80** 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
А	SEPT 2023	First Release
В	FEB 2024	Second Release



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1. Technical Specifications

System Description

ACROWALL 80 Panel is a steel frame panel with an 18mm plywood face. The maximum permissible concrete pressure is 80kPa.

The built-in strength in the design of the **ACROWALL 80** system makes the assembly simple with a minimum amount of components. The aligning clamps lock the panels rigidly together and accurately in line. Panel assemblies stay free of twist even when being crane handled. The panels come in hot dipped galvanized or powder coated finish.

Purpose of the Document

The purpose of this document is to provide guidelines for design, safe handling, transport and installation of the **ACROWALL 80** 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 Contractors 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. 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 is to draw the user's attention to possible musculoskeletal disorders as a result of manual handling during assembly and dismantling of the **ACROWALL 80** system.

It is recommended that users of the **ACROWALL 80** system employ and implement appropriate procedures and control measures to eliminate or control any risk of Musculoskeletal disorder/injury while handling.

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 **ACROWALL 80** 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 **ACROWALL 80** 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 generated for specific projects.

The maximum capacity of an assembly using Acrowall-80 panels may be limited by other members. See relevant data or consult with a suitably qualified and experienced engineer. Maximum capacity is only applicable for equipment in good condition and free from defects.

Limit State Conversion Factor = 1.5 WLL = Working Load Limit

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 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 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



Acrowall 80 Panels

PRODUCT	DESCRIPTION	PRODUCT CODE	MASS (kg)
	Acrowall 80 Panels		
	3300 x 2400 Panel	AW80P3324	472.0
	3300 x 1200 Panel	AW80P3312	208.0
	3300 x 900 Panel	AW80P3309	171.0
	3300 x 720 Panel	AW80P3307	145.0
	3300 x 600 Panel	AW80P3306	131.0
	3300 x 300 Panel	AW80P3303	89.0
	3300 x 240 Panel	AW80P3302	73.0
	2700 x 2400 Panel	AW80P2724	392.0
	2700 x 1200 Panel	AW80P2712	173.0
	2700 x 900 Panel	AW80P2709	142.0
	2700 x 720 Panel	AW80P2707	121.0
	2700 x 600 Panel	AW80P2706	108.0
	2700 x 300 Panel	AW80P2703	73.0
	2700 x 240 Panel	AW80P2702	61.0
	1200 x 2400 Panel	AW80P1224	195.0
	1200 x 1200 Panel	AW80P1212	88.0
	1200 x 900 Panel	AW80P1209	73.0
	1200 x 720 Panel	AW80P1207	60.0
	1200 x 600 Panel	AW80P1206	54.0
	1200 x 300 Panel	AW80P1203	35.0
	1200 x 240 Panel	AW80P1202	29.0
	MP Panels		
(.	3300 x 720 MP Panel	AW80P3307M	176.0
	2700 x 720 MP Panel	AW80P2707M	135.0
	1200 x 720 MP Panel	AW80P1207M	72.0
	600 High Range Panels		
	600 x 900 HR Panels	AW80P0609	43.0
	600 x 720 HR Panels	AW80P0607	37.0
	600 x 600 HR Panels	AW80P0606	32.0
	600 x 300 HR Panels	AW80P0603	20.0



Acrowall 80 Corner Panels & Alignment Clamps

PRODUCT	DESCRIPTION	PRODUCT CODE	MASS (kg)		
	Acrowall 80 Internal Corner Panels				
	3300 x 300 x 300 ICP 2700 x 300 x 300 ICP	AW80IC33 AW80IC27	131.0 108.0		
	1200 x 300 x 300 ICP 600 x 300 x 300 ICP	AW80IC12 AW80IC06	63.0 31.0		
	Acrowall 80 Articulate	d Corner Pane	ls		
	3300 x 292 x 292 ACP	AW80ACP33	199.0		
	2700 x 292 x 292 ACP	AW80ACP27	164.0		
	1200 x 292 x 292 ACP	AW80ACP12	78.0		
	Acrowall 80 Stripping Corner Panel				
	Alignment Clamp	AVV603C33	211.0		
	Alignment Clamp	AW80AC	4.5		
	Alignment Clamp 380mm				
	Alignment Clamp 380mm	AW80AC380	5.5		



Acrowall 80 Working Platform Bracket Working Platform Bracket AWBOWPB 17.0 Acrowall 80 Platform Adaptor Platform Adaptor AWBOPBA 1.7 Acrowall 80 Compensation Walers Compen. Waler 850 AWBOCW850 13.5 Compen. Waler 1200 AWBOCW1200 1900 Acrowall 80 Universal Waler Universal Waler 2450 AWBOUW2450 890 Acrowall 80 Waler Stop AWBOWS 5.0 Acrowall 80 Waler Wedge AWBOUWW 0.8	PRODUCT	DESCRIPTION	PRODUCT CODE	MASS (kg)			
Acrowall 80 Platform Adaptor		Acrowall 80 Working Platform Bracket					
Platform Adaptor AW80PBA 1.7		Working Platform Bracket	AW80WPB	17.0			
Acrowall 80 Compensation Walers		Acrowall 80 Platform Ada	ptor				
Compen. Waler 850 AW80CW850 13.5 Compen. Waler 1200 AW80CW1200 19.0 Acrowall 80 Universal Waler		Platform Adaptor	AW80PBA	1.7			
Acrowall 80 Universal Waler		Acrowall 80 Compensation Walers					
Acrowall 80 Universal Waler Universal Waler 2450 AW80UW2450 89.0 Acrowall 80 Waler Stop Waler Stop AW80WS 5.0 Acrowall 80 Waler Wedge		Compen. Waler 850	AW80CW850	13.5			
Universal Waler 2450 AW80UW2450 89.0 Acrowall 80 Waler Stop Waler Stop AW80WS 5.0 Acrowall 80 Waler Wedge	V #	Compen. Waler 1200	AW80CW1200	19.0			
Waler Stop AW80WS 5.0 Acrowall 80 Waler Wedge				89.0			
Waler Stop AW80WS 5.0 Acrowall 80 Waler Wedge							
Acrowall 80 Waler Wedge		Acrowall 80 Waler Stop					
		Waler Stop	AW80WS	5.0			
Waler Wedge AW80UWW 0.8	A c	Acrowall 80 Waler Wedge	•				
	$oldsymbol{U}$	Waler Wedge	AW80UWW	0.8			



PRODUCT	DESCRIPTION	PRODUCT CODE	MASS (kg)				
	Acrowall 80 Plastic Hole Plug						
	Hole Plug 20/24mm AW80PHP20/24 0.03						
	Acrowall 80 Frame Anchor Bracket						
	Frame Anchor Bracket	AW80FAB	2.3				
	Acrowall 80 Plumbing Shear Bracket Assembly						
	Plumbing Shear Bracket AW80PSBA						
	Acrowall 80 Push/Pull Prop						
	2050 - 2940mm	AW80PP2050	27.0				
	2900 - 3800mm	AW80PP2900	31.0				
	4600 - 6000mm	AW80PP4600	69.0				
	Acrowall 80 Kicker Brace						
	1080 - 1400mm	AW80KB1080	14.0				
	1280 - 2100mm	AW80KB1280	20.0				
	2030 - 2940mm	AW80KB2030	26.0				

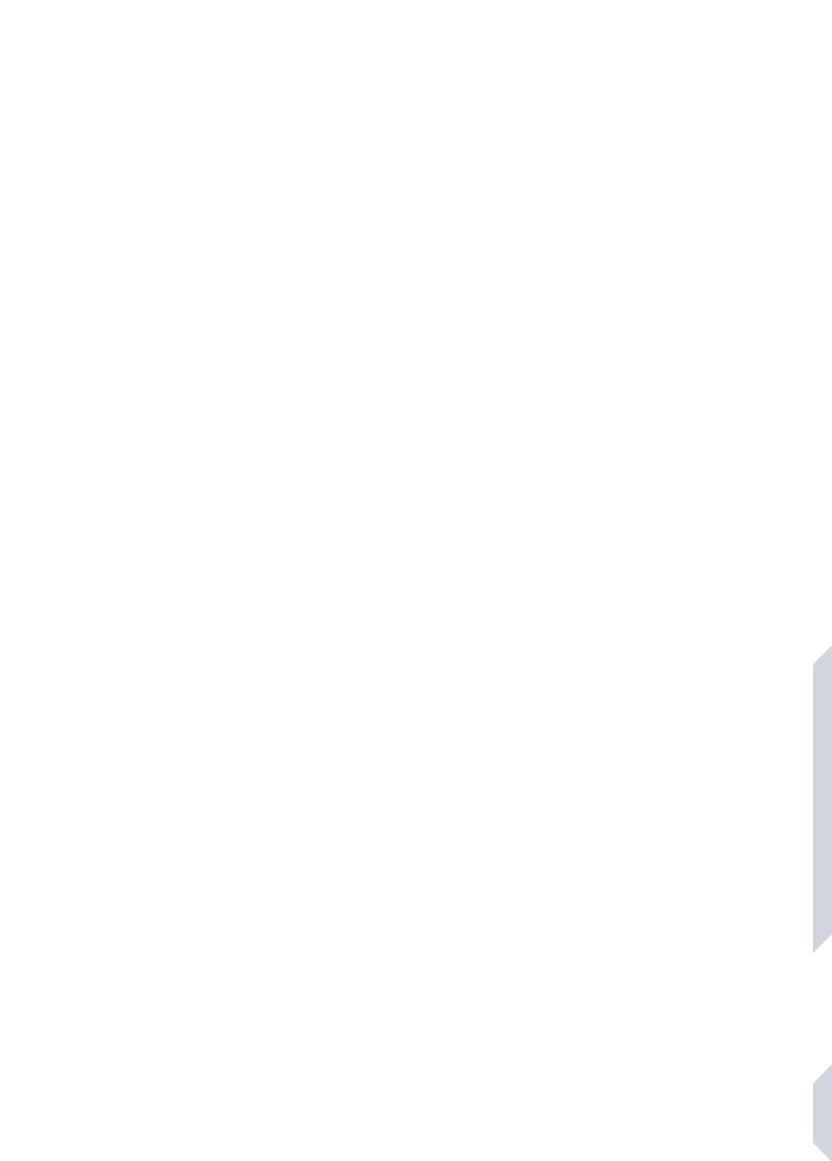


PRODUCT	DESCRIPTION	PRODUCT CODE	MASS (kg)			
	Acrowall 80 Brace Connector					
	Brace Connector	AW80BC	3.5			
	Acrowall 80 Base Plate					
*	Base Plate	AW80BP	2.0			
Manufactura de la companya del companya de la companya del companya de la company	Acrowall 80 Hook Tie DW	715				
	Hook Tie DW15	AW80HT15	0.6			
	Acrowall 80 Hook Tie Head DW15					
	Hook Tie Head DW15	AW80HTH	0.4			
a grant de la constitution de la	Acrowall 80 Stopend Tie					
	Stopend Tie	AW80ST	1.2			
	Tilt up Prop Shisham Adaptor					
	Prop Shisham Adaptor	PTUSA	1			
00	Acrowall 80 Top Tie Brac	ket				
	Tie Bracket	AW80TTB	0.4			



PRODUCT	DESCRIPTION	PRODUCT CODE	MASS (kg)			
Corner are a series of the ser	Acrowall 80 Lifting Hook 1.5T					
	Lifting Hook	AW80LH	7.7			
	Acrowall 80 Lifting Gear					
I II III	Lifting Gear	AW80LG	15.6			
	Acrowall 80 Stacking Post					
	AZ Tie Nut & HT Thru Tie C	AW80SP	7.5			
	AZ Tie Nut	ACBTN230	5.9			
	15mm Wing Nut	QTTCWN15	0.5			
	20mm Wing Nut	QTTCWN20	0.5			
	26mm Wing Nut	QTTCWN26	0.9			
	Acrowall 80 Top Handrail Post Bracket					
	Handrail Post Bracket	AW80THPB	1.8			

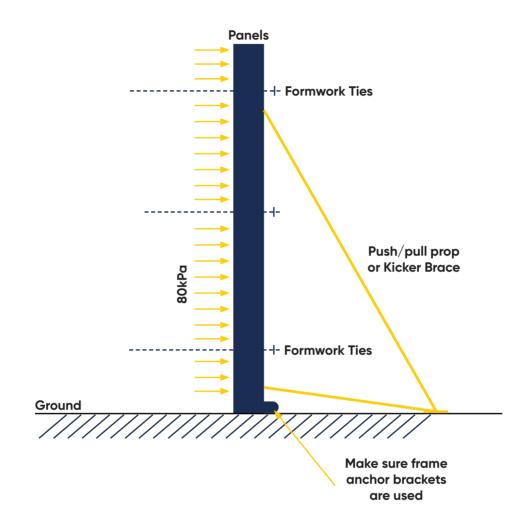




3. WORKING LOAD LIMITS (WLL)



Vertical Panel





Plumbing Prop

Table 1 is based on region A wind speed for terrain category 3 with annual probability of exceedance = 1/100 and importance level 2 for construction equipment in accordance with AS/NZS1170.2 and AS/NZ1170.0.

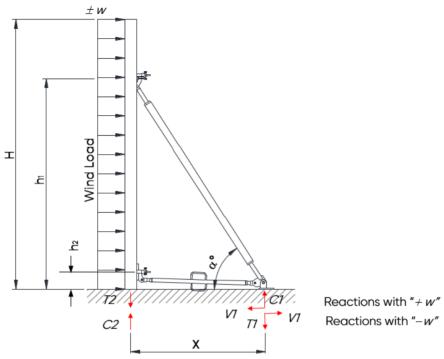


Figure 26 - Plumbing Prop load diagram

FORM HEIGHT, H,mm	3000	3000	3900	3900	4800	4800	4800	5400	5400	6000	6000
x, mm	1200	1200	1650	1650	1800	2400	2600	240	2600	2400	2600
h₁, mm	2100	2175	3000	2625	3300	4200	4045	4200	4045	4200	4575
h ₂ , mm	300	225	300	225	300	300	225	300	225	300	225
α°	58	60	60	57	60	59	57	59	57	59	60
Maximum spacing between plumbing props, m	3.5	3.5	2.7	2.7	2.2	2.2	2.2	2.1	2.1	1.8	1.8

ANCHOR	NCHOR LOADS & REACTIONS AT MAXIMUM SPACING, kN		
T ₁ , kN	16		
V ₁ , kN	8		
C ₁ , kN	10		
T ₂ , kN	2		
C ₂ , kN	17		

Where:

T = Tension force

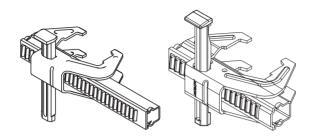
C = Compression force

V = Shear force

Refer pages 5.36-5.42 for typical applications.

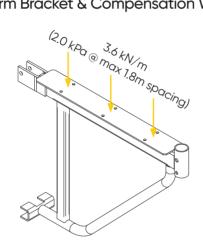


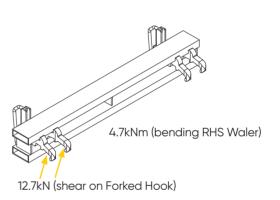
Alignment Clamp WLL



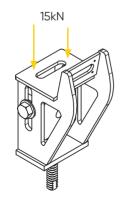
20kN Shear 20kN Tension 1.3kNm Bending

Platform Bracket & Compensation Waler WLL





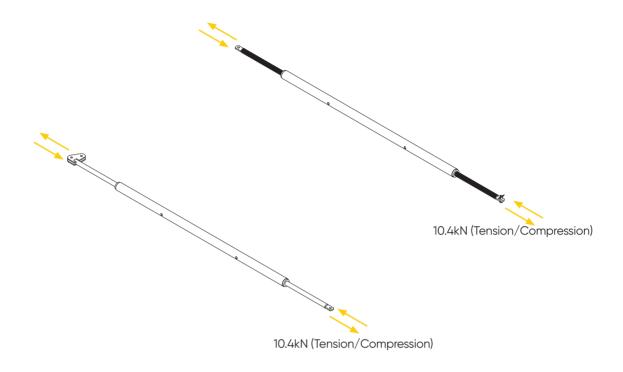
Plumbing Shear Bracket Assembly & Frame Anchor Bracket WLL



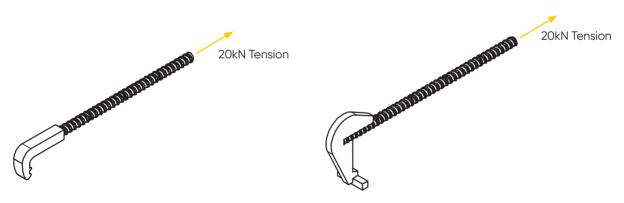




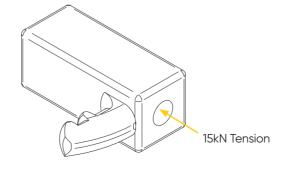
Push/Pull Props & Kicker Bracket WLL



Hook Tie & Stopend Tie WLL

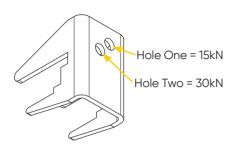


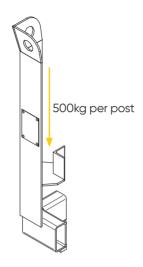
Tie Head WLL



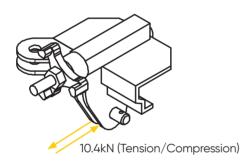


Top Tie Bracket & Stacking Post WLL

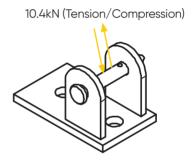




Brace Connector WLL



Base Plate WLL



Top Handrail Bracket

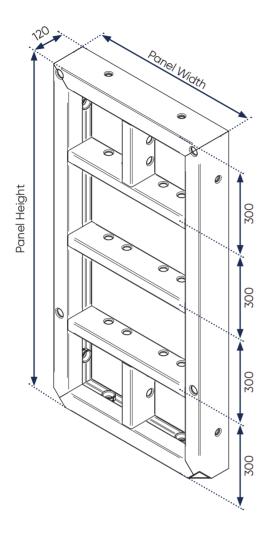




4. SYSTEM DETAILS

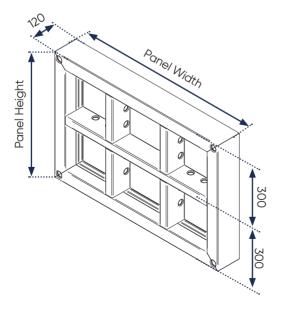


Panels



Height x Width	Code
3300 x 2400 Panel	AW80P3324
3300 x 1200 Panel	AW80P3312
3300 x 900 Panel	AW80P3309
3300 x 720 Panel	AW80P3307
3300 x 600 Panel	AW80P3306
3300 x 300 Panel	AW80P3303
3300 x 240 Panel	AW80P3302
2700 x 2400 Panel	AW80P2724
2700 x 1200 Panel	AW80P2712
2700 x 900 Panel	AW80P2709
2700 x 720 Panel	AW80P2707
2700 x 600 Panel	AW80P2706
2700 x 300 Panel	AW80P2703
2700 x 240 Panel	AW80P2702
1200 x 2400 Panel	AW80P1224
1200 x 1200 Panel	AW80P1212
1200 x 900 Panel	AW80P1209
1200 x 720 Panel	AW80P1207
1200 x 600 Panel	AW80P1206
1200 x 300 Panel	AW80P1203
1200 x 240 Panel	AW80P1202

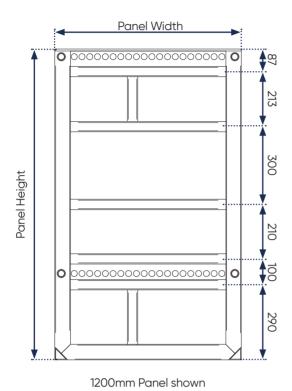
600mm High Panel Range



Height x Width	Code
600 x 900	AW80P0609
600 x 720	AW80P0607
600 x 600	AW80P0606
600 x 300	AW80P0603



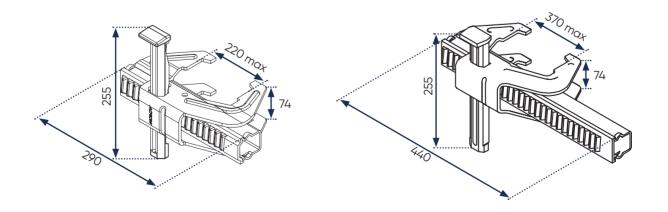
Multi Panels



Height x Width	Code
3300 x 720	AW80P3307M
2700 x 720	AW80P2707M
1200 x 720	AW80P1207M

Alignment Clamps

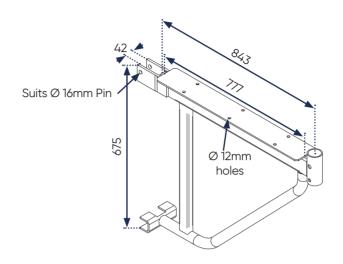
The Alignment Clamp is used along the ribs of the adjacent panels to tightly join two panels together and aligns them in one action, eliminating the need for walers. If used between rib of adjacent panels it will not align panels but only joins them. The joint will not have much design rigidity.





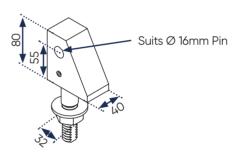
Working Platform Bracket

Can be attached to horizontal (requires Platform Adaptor) or vertical ribs of the panel. It provide room for three timber planks which are secured to the top flange of the bracket via 6 existing Ø12 holes.



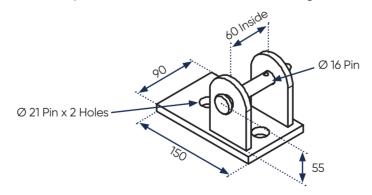
Platform Adaptor

Used to connect Working Platform Bracket to the panel rib when ribs are in horizontal plane.



Base Plate

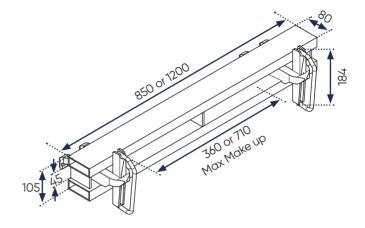
Used to anchor Push-Pull Props and Kicker Brace to concrete footing.

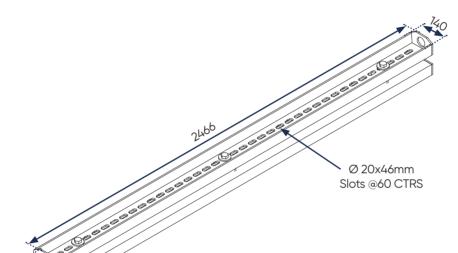




Walers & Waler Components

Used to support timber infill panels up to 360mm / 710mm width and to align panels.

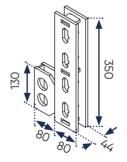




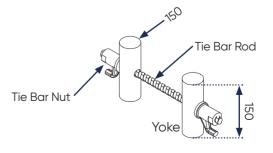
Used for tying acute and obtuse angles of thick walls.



Used in conjunction with Waler Stop to connect two Universal Waler 2450 together.



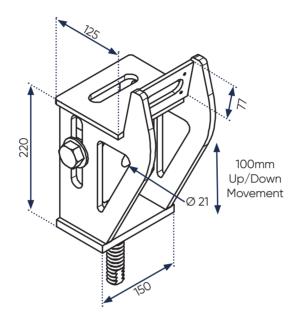
Used in conjunction with Waler Wedge to connect two Universal Waler 2450 together.



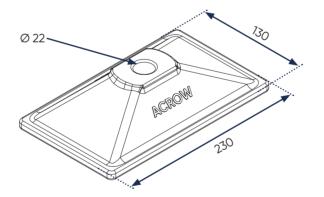


Plumbing Shear Bracket Assembly

Used to support panels off the ground or around the perimeter of footings. Push-pull props will be used to provide means for plumbing the panels while stabilizing and securing against the wind loads.



Washer Spacer





5. ASSEMBLY DETAILS

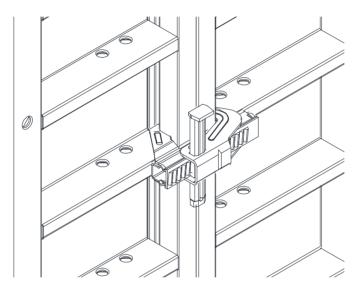


Alignment Clamps

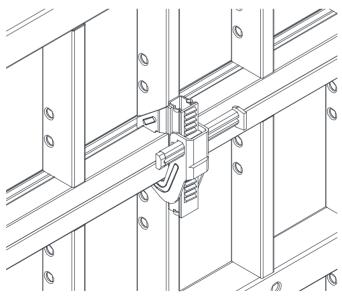
Acrowall-80 Panels are always connected together using the Alignment Clamps. The Alignment Clamp provides a tension resistant, tight joint between panels as well as holding the panel in rigid alignment. It can be used on both vertical and horizontal panel joints.

Important Note:

- Alignment Clamps must be placed at rib positions to facilitate correct alignment. This is dependent on the clamp acting against the rib.
- All Alignment Clamps must be re-tightened after crane handling. Movement by crane can cause vibration which may loosen the locking bar.
- When building a shutter on the ground it is best to lay the panels in their proper sequence first before attaching the alignment clamps in a random pattern.
- For number of Alignment Clamps required refer pp.29-39.



Alignment Clamps connecting vertical panel joints

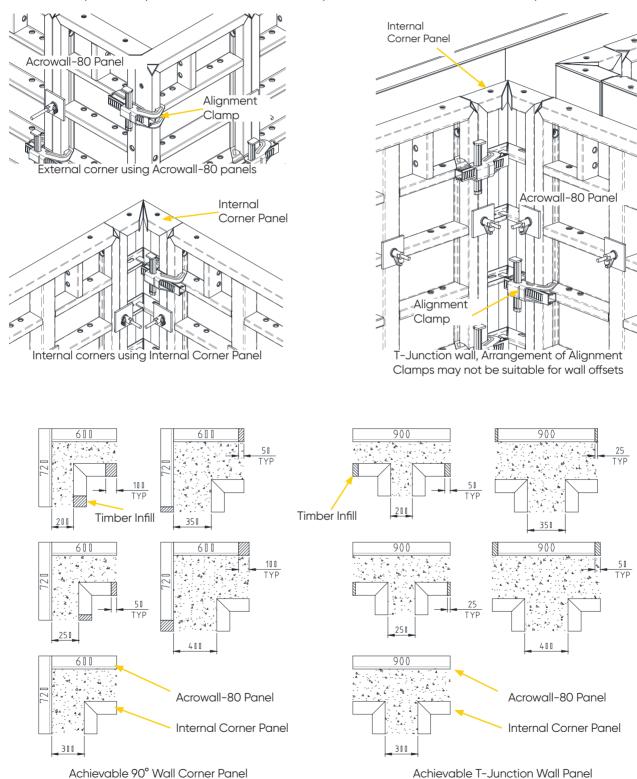


Alignment Clamps connecting horizontal panel joints



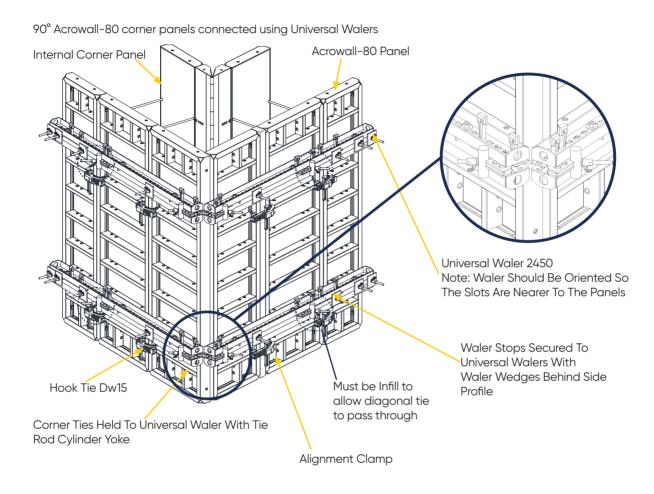
90° Wall Corners and T-Junctions

90° wall corners up to 400mm thickness are made using 720 and 600 long Acrowall-80 panels for external corners, and Internal Corner Panels for internal corners. The number and position of Alignment Clamps between the panels depend on the lateral concrete pressure, wall thickness and size of panels.





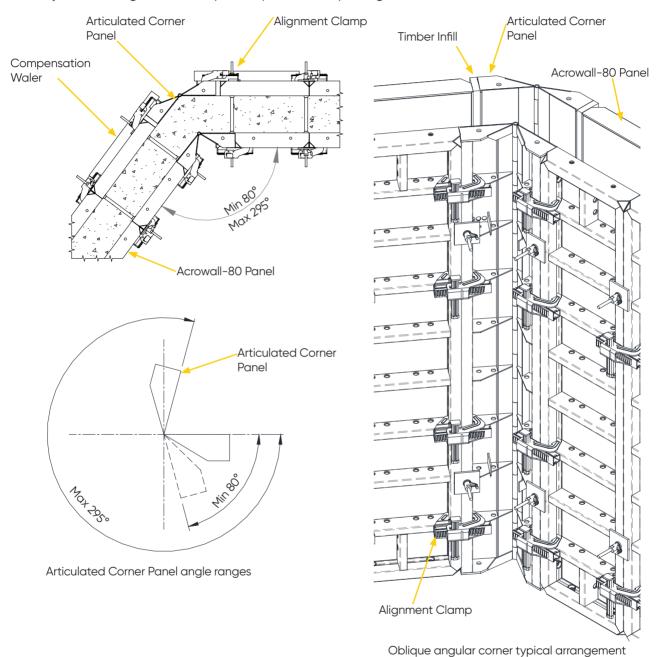
90° Wall Corners and T-Junctions (cont'd)





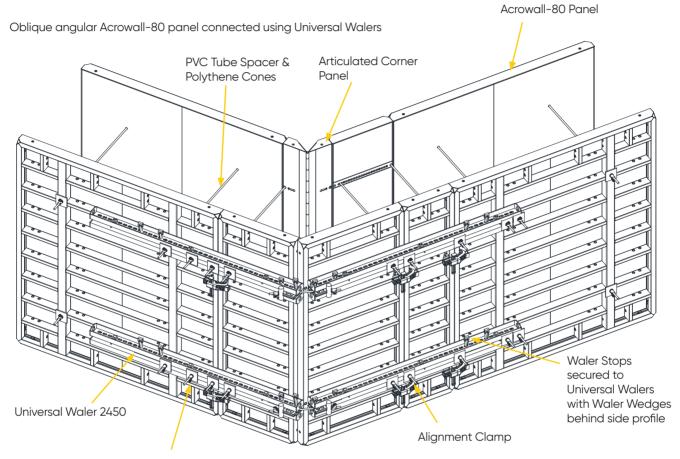
Oblique Angular Corners

To cater for non right angled corners, Articulated Corner Panels are used for internal and external corners. The adjustment range of the component permits oblique angular corners from 80° to 295°.





Oblique Angular Corners (cont'd)



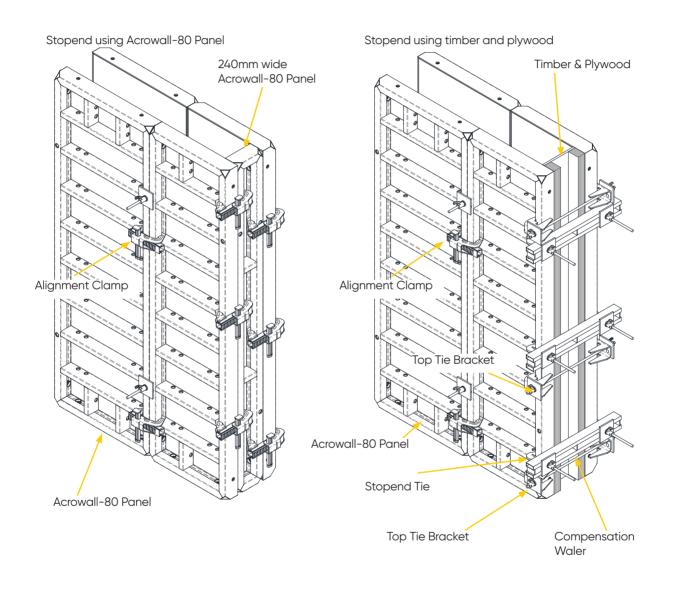
Hook Tie DW15 Holds Universal Waler 2450 to Acrowall-80 panel



Stopend

Stopend can be formed using Acrowall-80 panel when wall thickness is 240mm. Alignment Clamps are used to join the panel together.

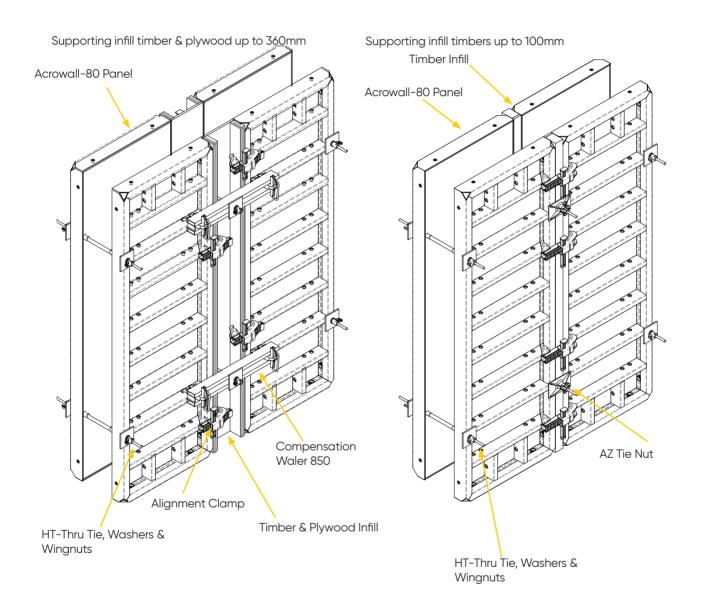
Combination of timber and plywood can also be used as stopend panel. Compensation Waler with Stopend Ties plus Top Tie Brackets are used to join them together.





Infill

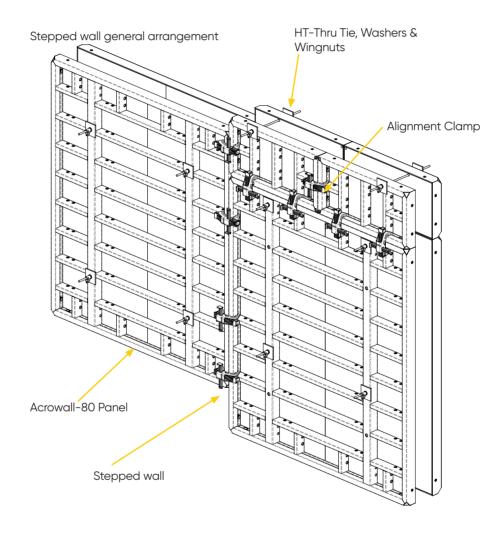
Infills up to 100mm can be made vertically between panels using Alignment Clamps (excluding corners) and up to 360mm using Compensation Walers 850.





Stepped Wall

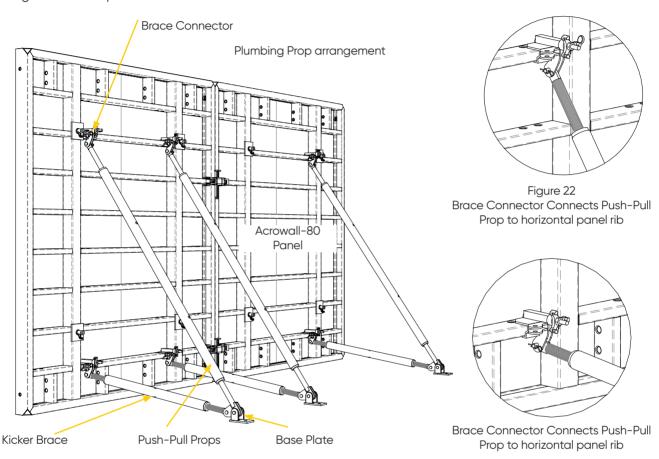
Alignment Clamps are used to join Acrowall-80 panels in stepped wallform applications.

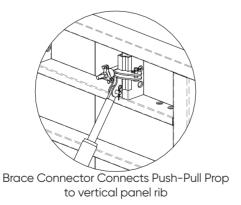


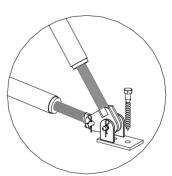


Plumbing Prop

Plumbing prop is a combination of Push-Pull Prop, Kicker Base, Brace Connector, and Base Plate. This is used to provide means for plumbing and securing the panels against wind loads. They are connected to the panel ribs through provided Ø24 holes using Brace Connectors. They may be connected to vertical or horizontal ribs. Kicker Brace is connected to Push-Pull Prop's connecting plate which is then connected to Base Plates using 16 diameter pins.







Kicker Brace and Push-Pull Prop connected to Base Plate

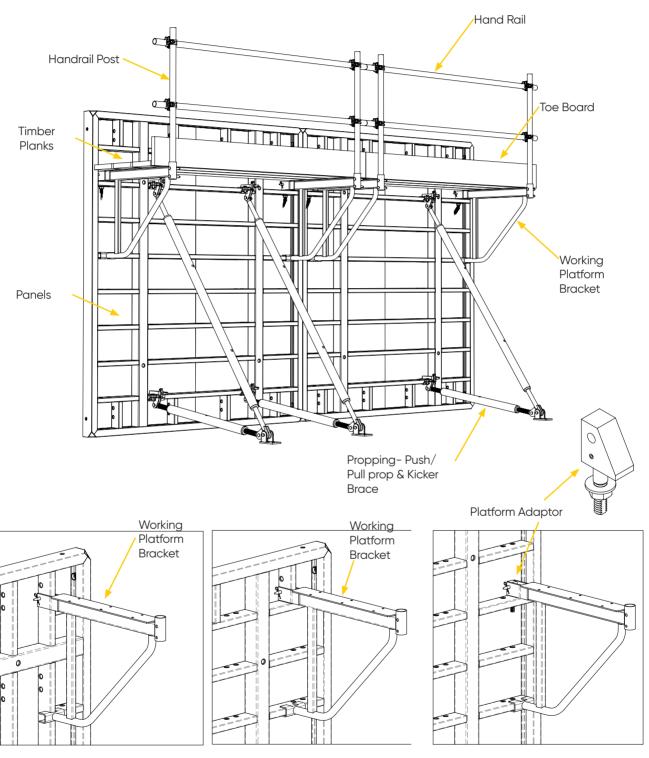
Note:

The first panel is generally secured in place with minimum two plumbing props to provide a stable structure. As the other panels are connected to the first panel they are also secured in place with plumbing prop at the required spacing.



Working Platform Bracket

Working Platform Bracket can be used in either vertical or horizontal panel rib. Maximum allowable spacing of 1.8m and with a uniformly distributed imposed load of 2.0kPa.



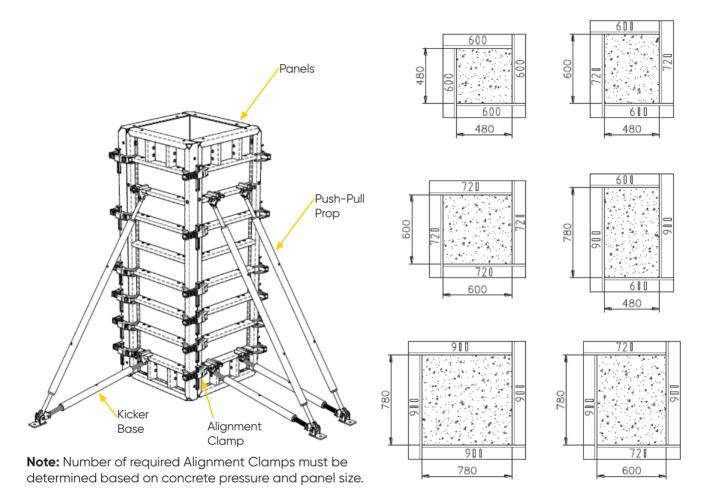
Working Platform Bracket connected to Working Platform Bracket connected to vertical panel rib horizontal panel rib

Working Platform Bracket connected to horizontal panel rib using Platform Adaptor

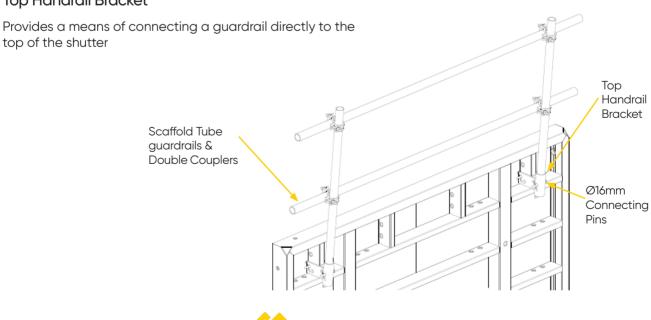


Column Formwork

The Acrowall-80 Panels (i.e. 600, 720, 900) are highly suitable for shuttering columns with square and rectangular cross-sections, and they can be connected by means of Alignment Clamp.



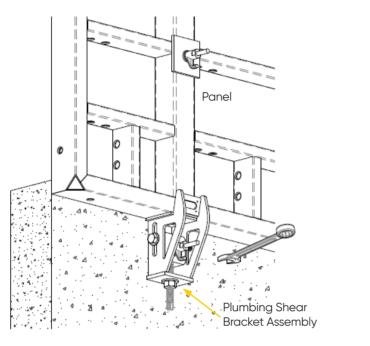
Top Handrail Bracket

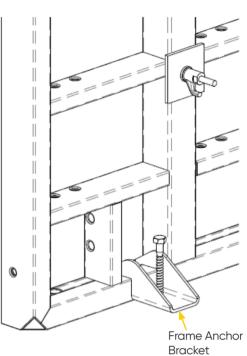


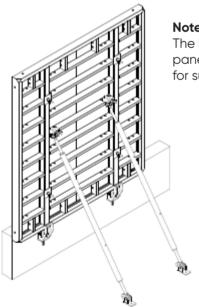


Other Applications

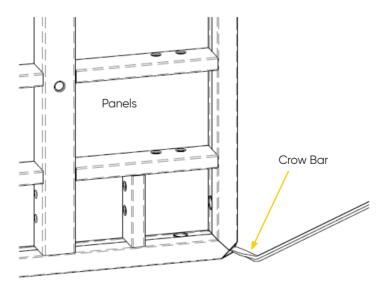
Plumbing Shear Bracket Assembly used to support panels off the ground or around the perimeter of footings. Frame Anchor Bracket used to hold the panel from the uplift due to wind loads.







The Plumbing Shear Bracket Assembly is used for supporting panels close to ground or concrete slab. It is not to be used for supporting panels at height.



Acrowall 80 can be levered into place with a crow bar

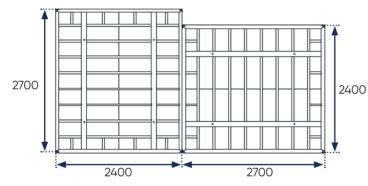


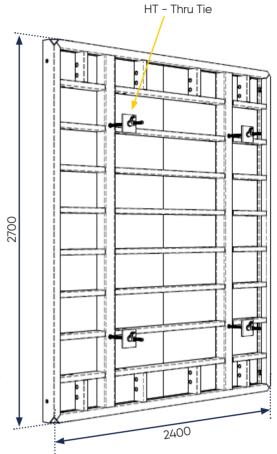
Achievable Heights

The four range of panel sizes and together the possible connecting or assembly arrangements of Acrowall-80 panels allow the wall form height to be adjusted in increments of 0.3m.

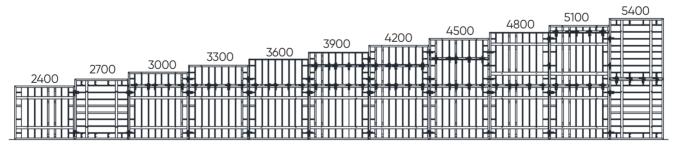
The benefits of using 2700x2400 panels:

- High structural stiffness for reduced deflection.
- Optimum size for transport.
- Maximum utilization of the full area of the panel.
- No plugging of holes, simple stopends and wall junctions.
- More achievable heights when combined with other panels.





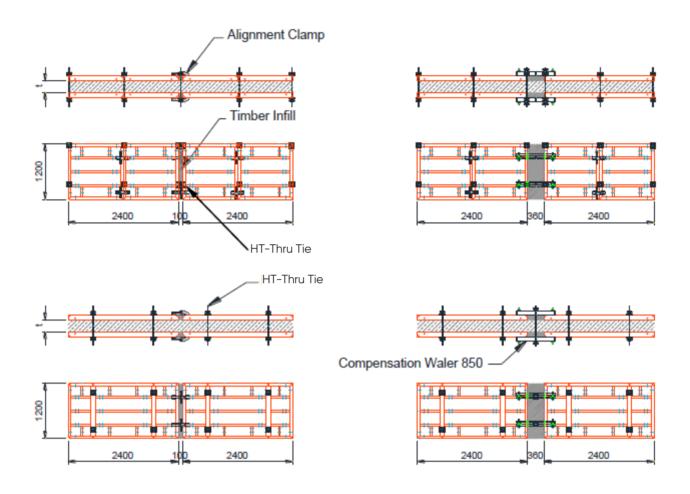
The achievable heights when 2700x2400 Acrowall-80 panel combined with other panels





Vertical Panel Joints

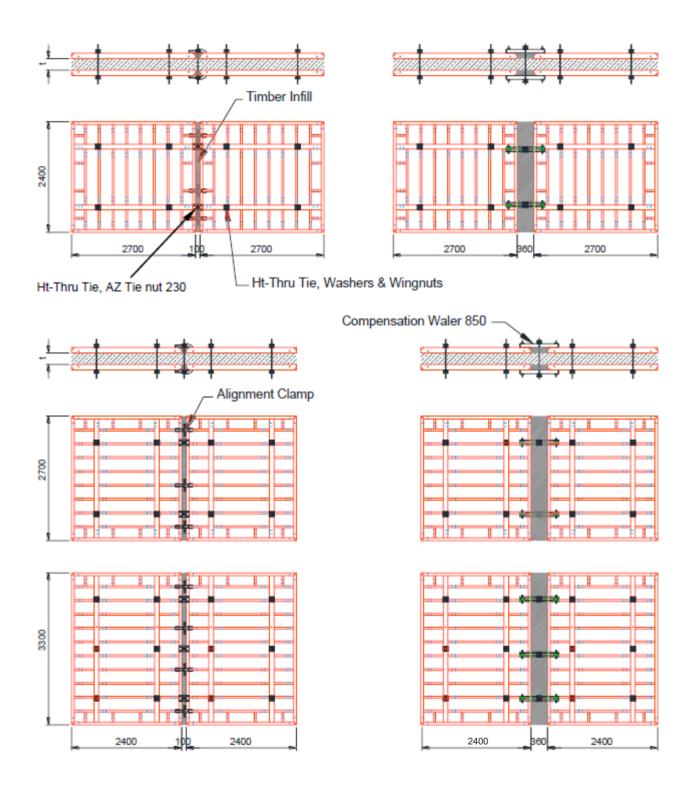
Infills up to 100mm can be made vertically between panels using Alignment Clamps (excluding corners) and up to 360mm using Compensation Walers 850.





Vertical Panel Joints

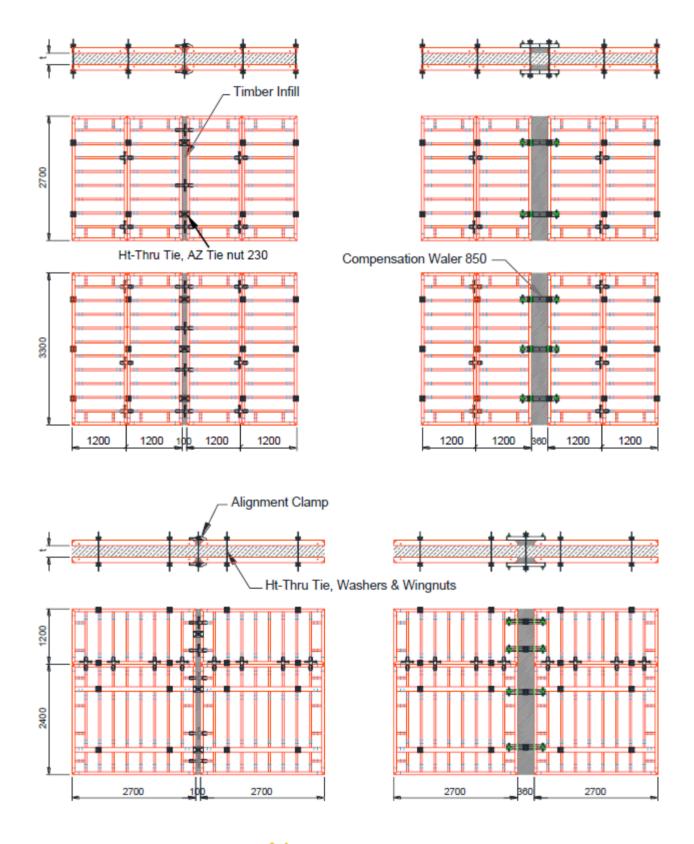
Vertical Panel Jointswith Timber infill (Cont'd)





Vertical Panel Joints

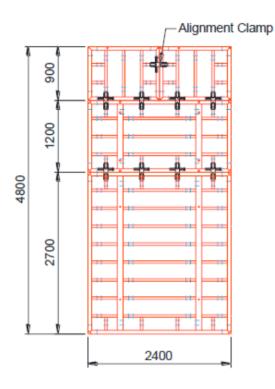
Vertical Panel Jointswith Timber infill (Cont'd)

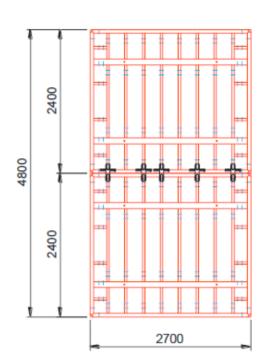


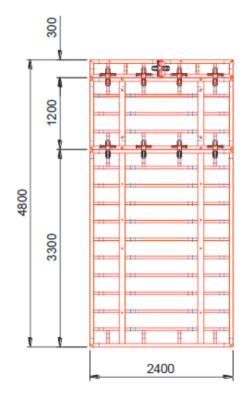


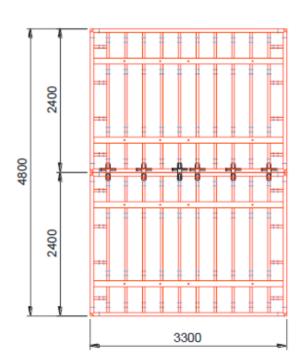
Horizontal Panel Joints

For Crane Handling. Clamping arrangements for 4.8m high single panel long shutters with no other attachments. Lifting from horizontal position to vertical:





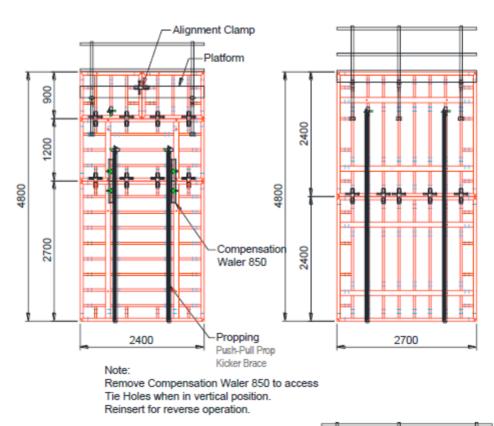


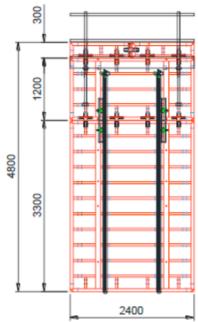


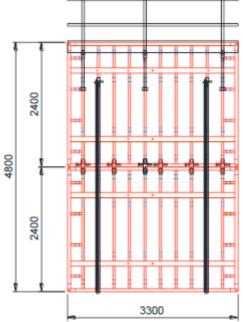


Horizontal Panel Joints

For Crane Handling. Clamping arrangements for 4.8m high single panel long shutters with no other attachments. Lifting from horizontal position to vertical:



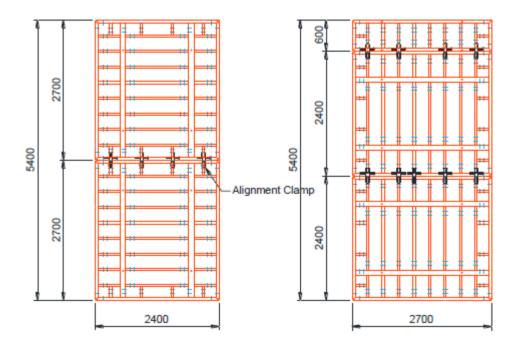


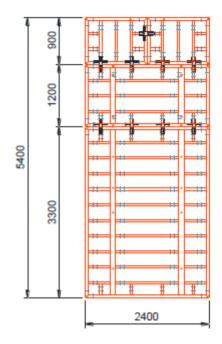


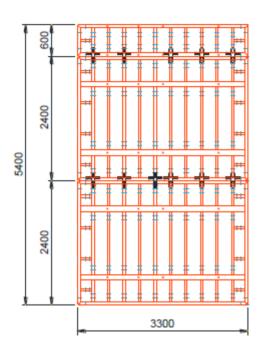


Horizontal Panel Joints

For Crane Handling. Clamping arrangements for 5.4m high single panel long shutters with no other attachments. Lifting from horizontal position to vertical:



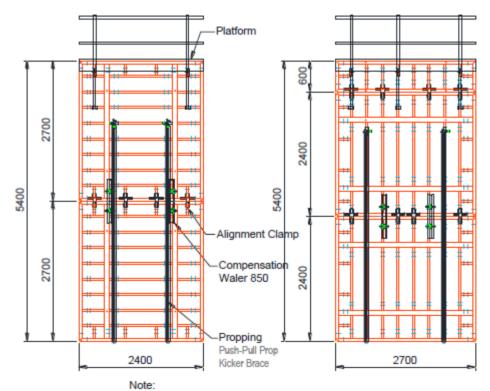




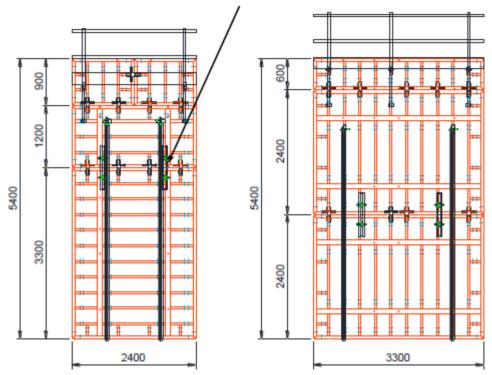


Horizontal Panel Joints

For Crane Handling. Clamping arrangements for 5.4m high single panel long shutters with working platform and propping attached as shown. Lifting from horizontal position to vertical:



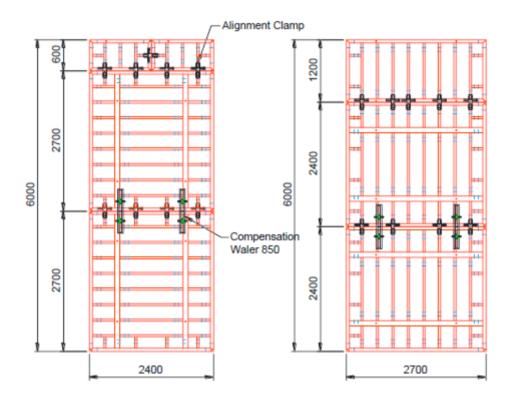
Remove Compensation Waler 850 to access Tie Holes when in vertical position. Reinsert for reverse operation.

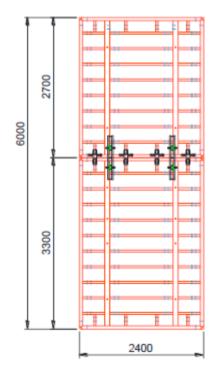


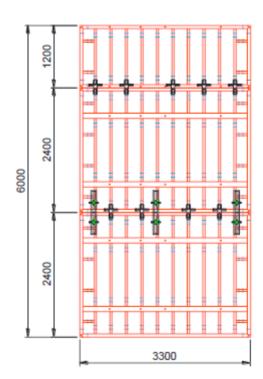


Horizontal Panel Joints

For Crane Handling. Clamping arrangements for 6.0m high single panel long shutters with no other attachments. Lifting from horizontal position to vertical:



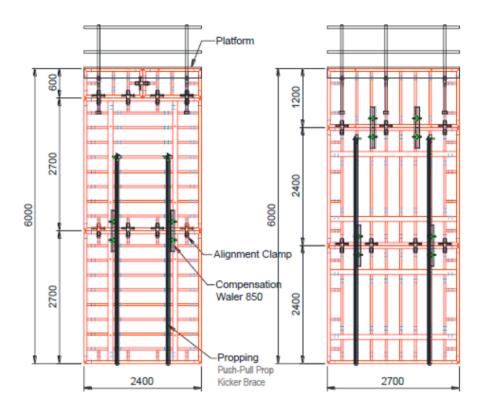


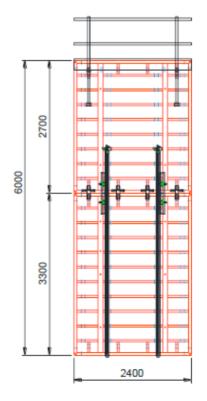


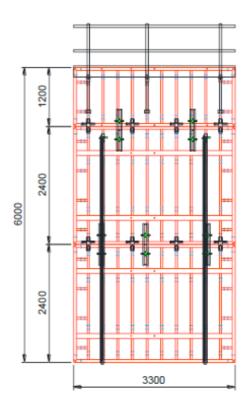


Horizontal Panel Joints

For Crane Handling. Clamping arrangements for 6.0m high single panel long shutters with no other attachments. Lifting from horizontal position to vertical:



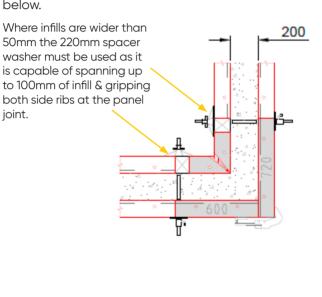


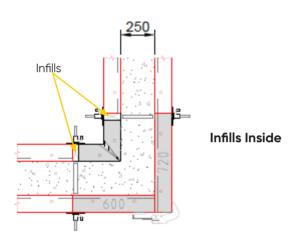




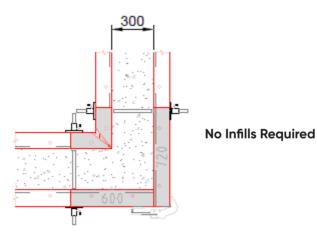
90° Corners

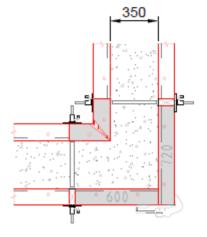
90° corners up to 400mm are made using 720 and 600 long Panels for external corners, and Internal Corner Panels for internal corners. The number and position of Alignment Clamps between the panels depend on the lateral concrete pressure, wall thickness and size of panels. This is shown for the external panels on the following pages for the maximum concrete pour height = shutter height as shown on the elevations. The internal panels are connected to each other in normal ways. Infills are placed between internal panels for wall thicknesses less than 300 and between externals for thicknesses more than 300 up to 400mm as shown below.

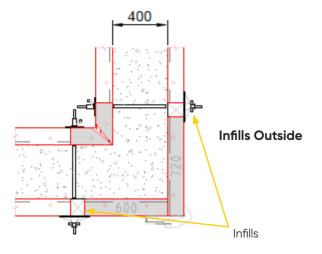




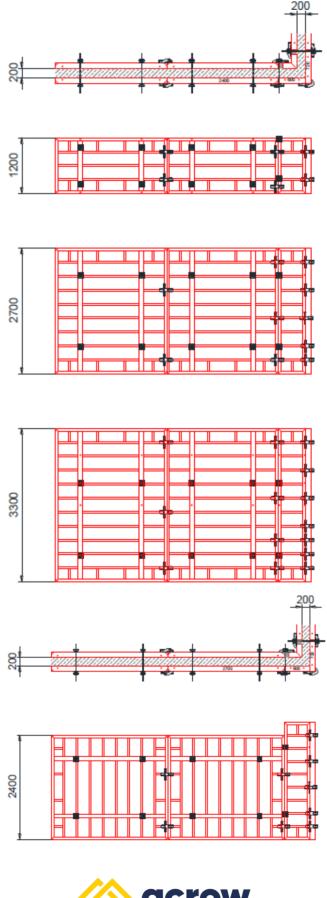
Note: Alignment clamps at panel joints omitted for clarity.



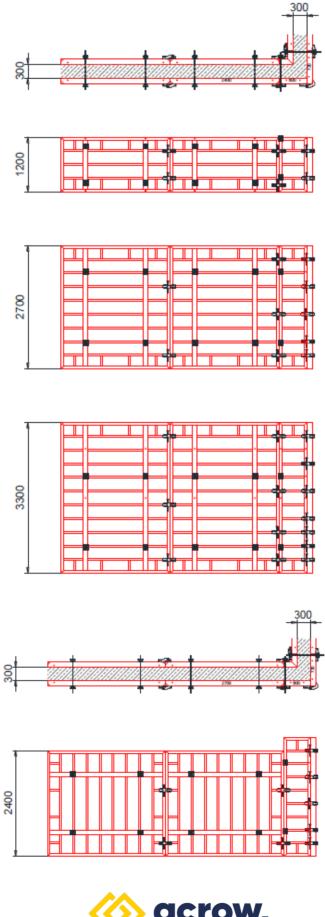




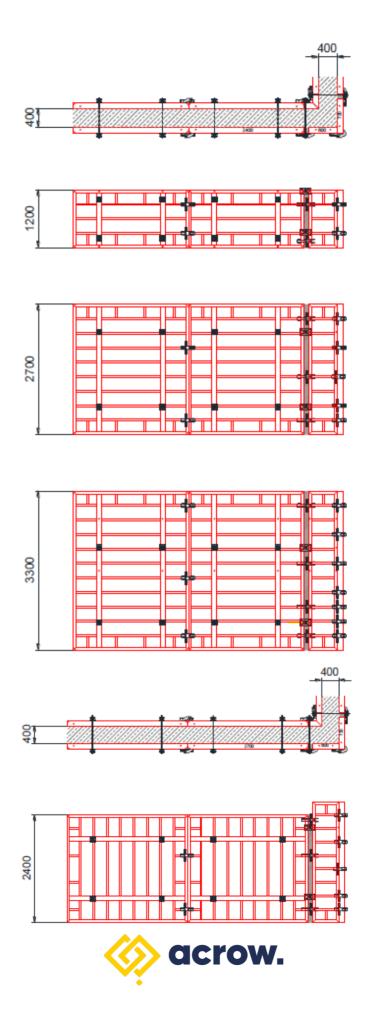


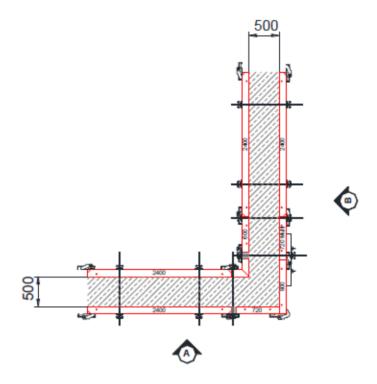


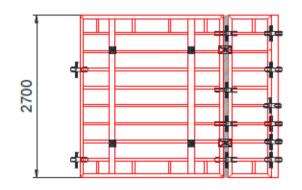


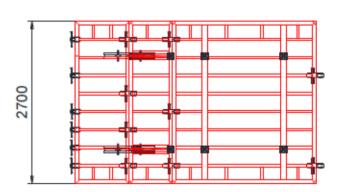




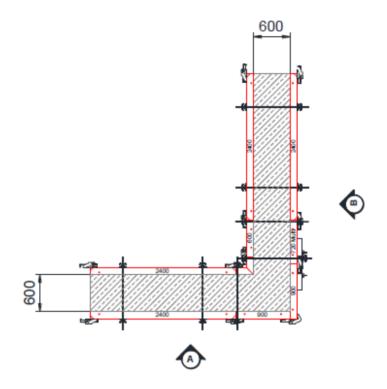


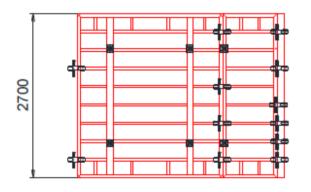


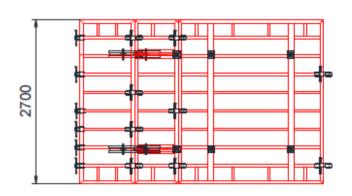








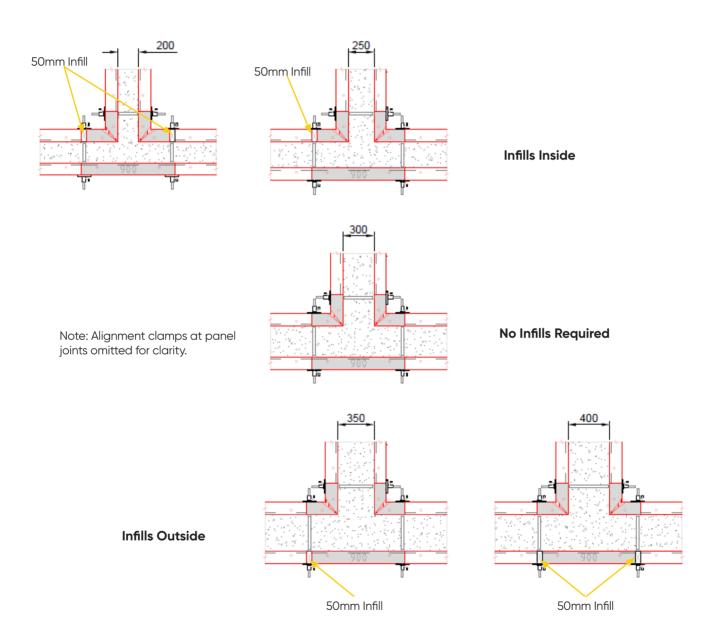






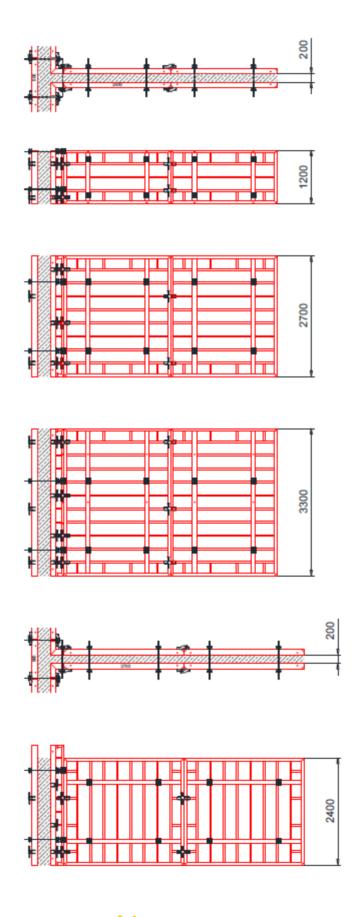
T-Junctions

T Junctions up to 400mm are made using 900mm long Panels and Internal Corner Panels. The number and position of Alignment Clamps between the Internal Corner Panels and adjacent panels depend on the concrete lateral pressure, wall thickness and panel size which determine the amount of unbalanced force in the ties that need to be resisted by panels. This is shown on the following pages for the maximum concrete pour height = shutter height as shown on the elevations. Other panels are joined together in normal ways. Infills are placed between internal panels for wall thicknesses less than 300 and between externals for thicknesses more than 300 up to 400mm as shown below.



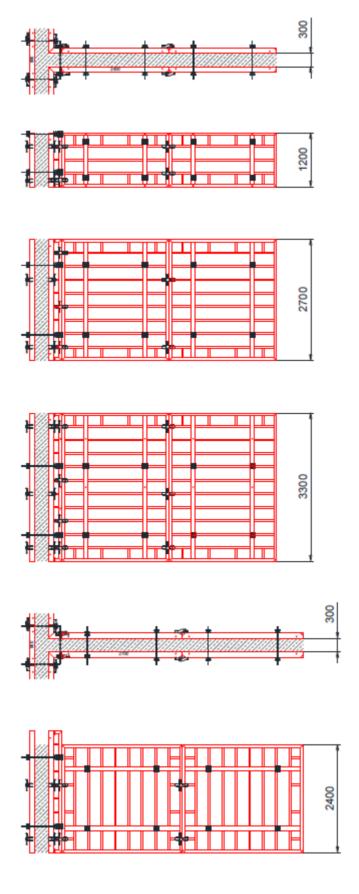


T-Junctions



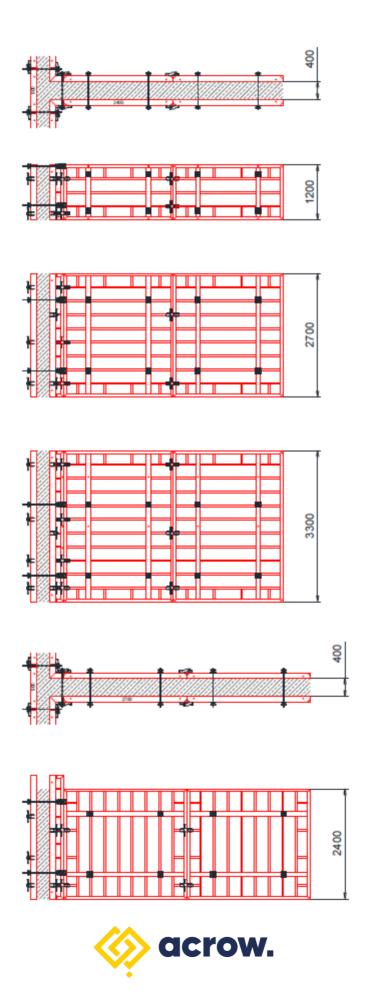


T-Junctions



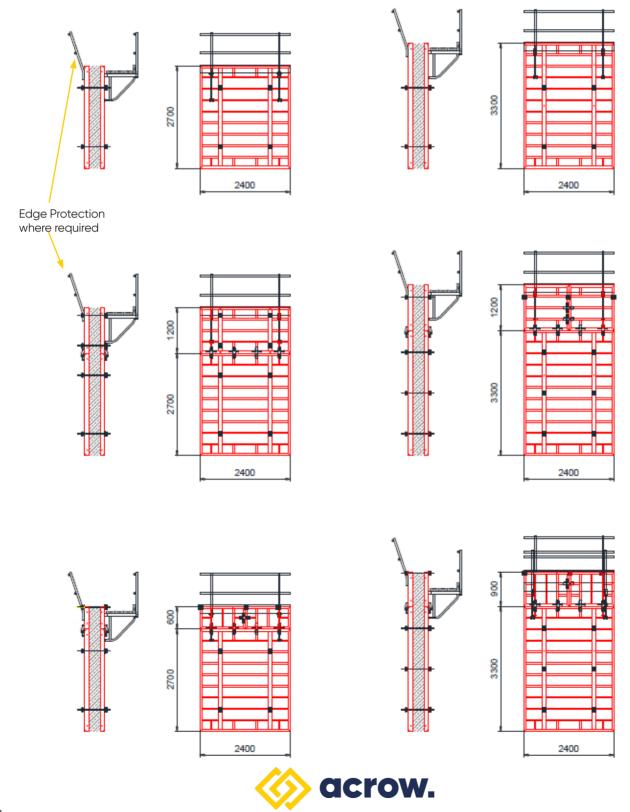


T-Junctions



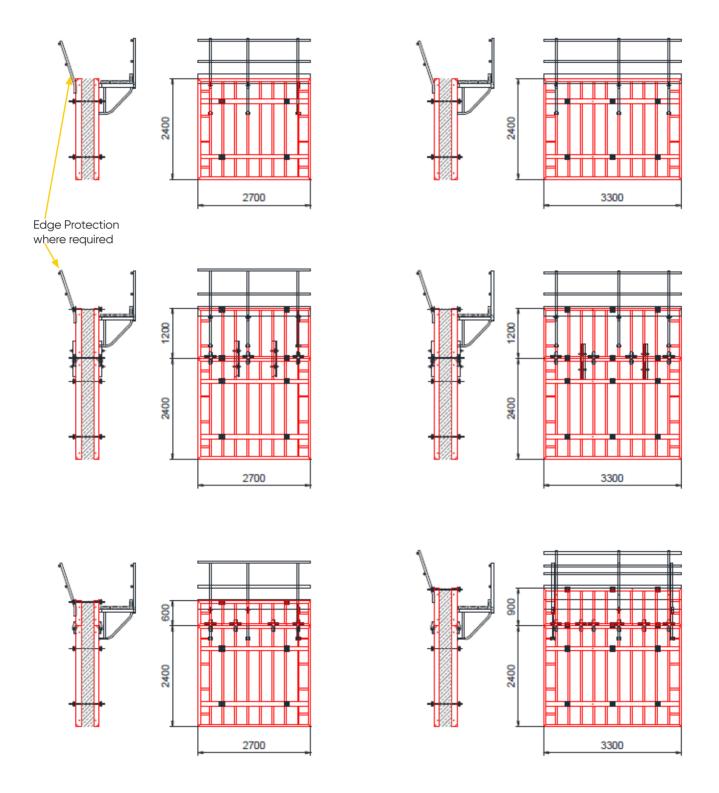
Working Platform Bracket

The maximum spacing between the brackets is 1.8m. Working Load Limit per bracket is 2kPa (200kg/m2) or 2kN (200kg) point load max (this point load is not in addition to 2kPa load). Please note stability of the shutters has to be checked separately. Following illustrations show some of locations to which the top Working Platform Bracket may be connected without using Platform Bracket Adapter. Platform Bracket Adapter enables Platform Bracket to be connected between horizontal ribs (refer to page 5.11). Push-Pull Props & Kicker Braces not shown for clarity.



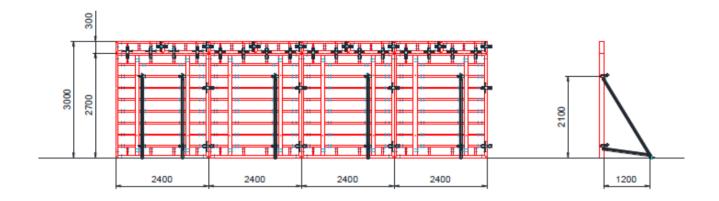
Working Platform Bracket,

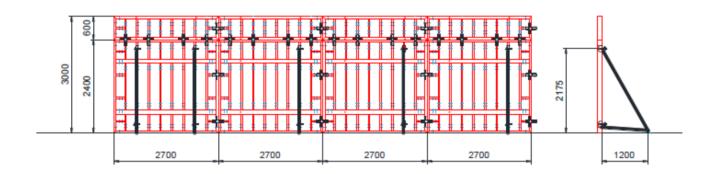
Push-Pull Props & Kicker Braces not shown for clarity.

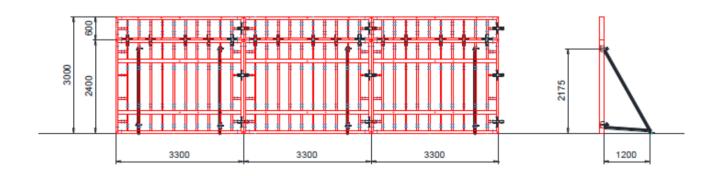




Push-Pull Props & Kicker Braces

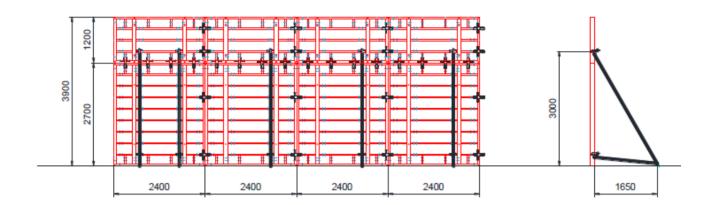


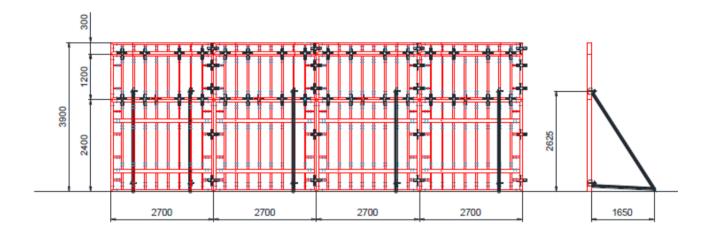


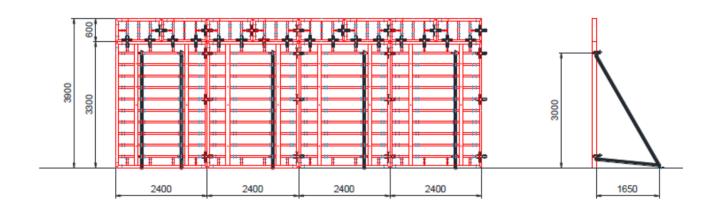




Push-Pull Props & Kicker Braces

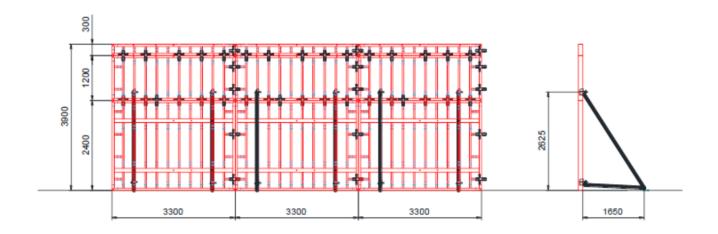


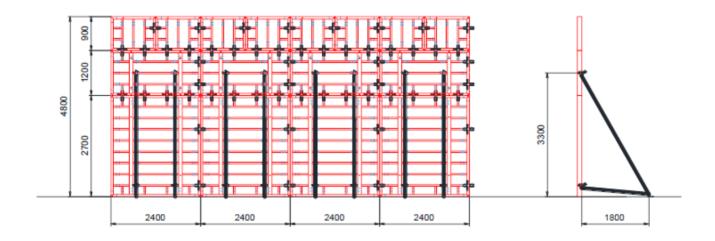


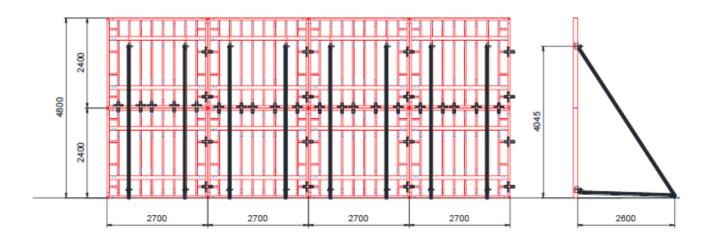




Push-Pull Props & Kicker Braces

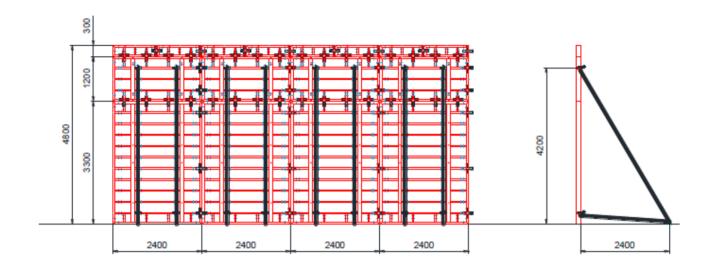


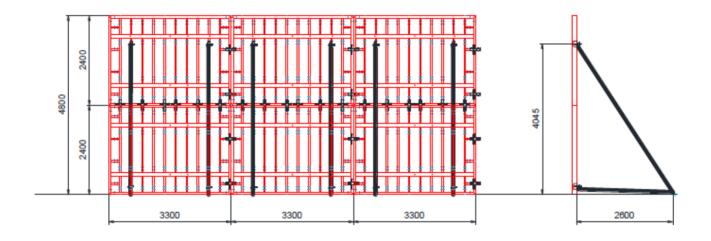


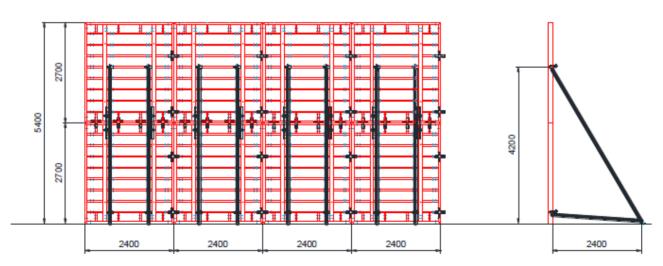




Push-Pull Props & Kicker Braces

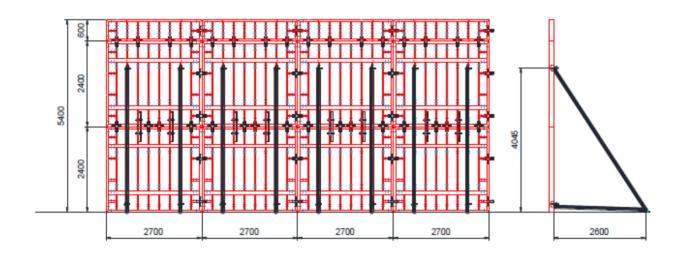


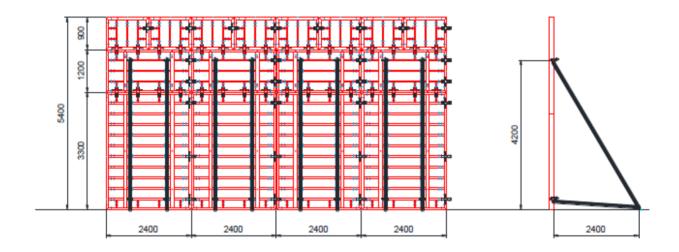


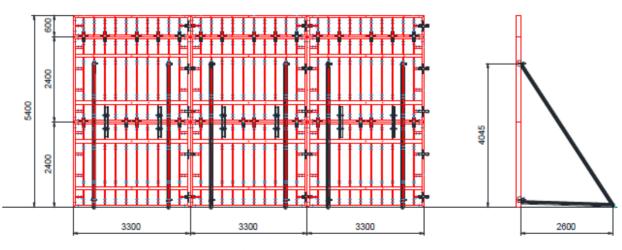




Push-Pull Props & Kicker Braces

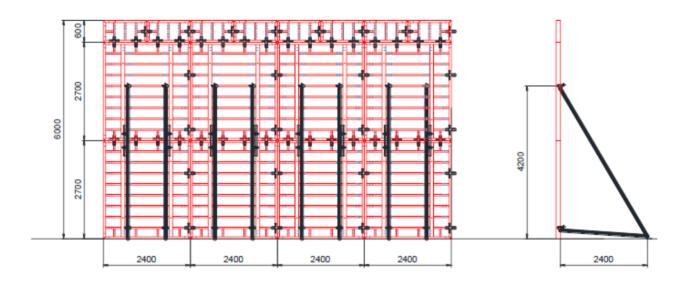


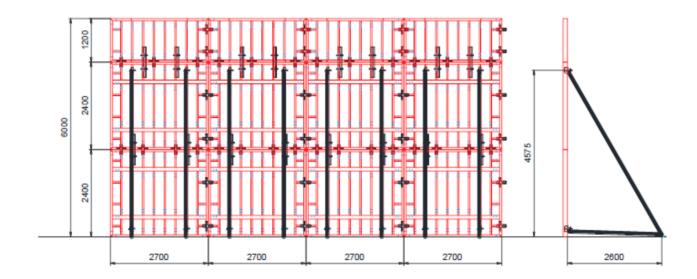






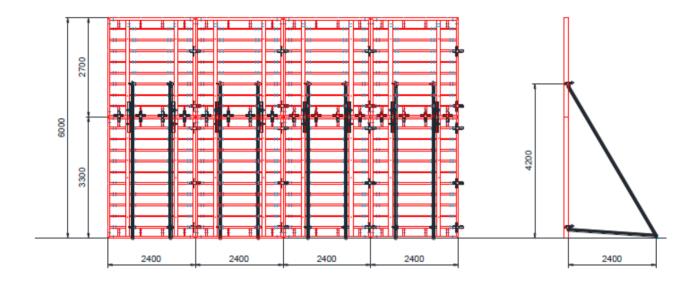
Push-Pull Props & Kicker Braces

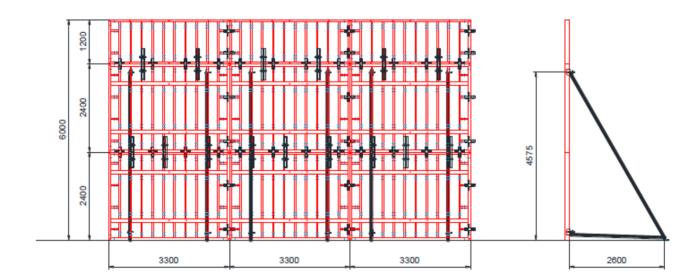






Push-Pull Props & Kicker Braces







6. TRANSPORT & HANDLING



6. Transport & Handling

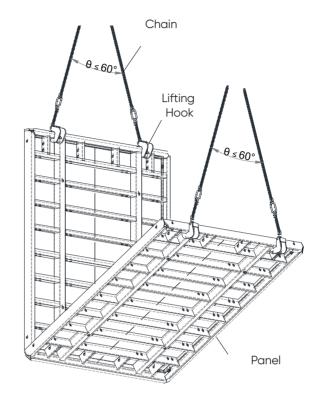
Crane Handling

Lifting Hooks

- The Lifting Hooks must be used in pairs to crane handle panels.
- They are self locking and can be released from the ground or slab using a tie bar or piece of timber.
- The Working Load Limit for a pair of Lifting Hooks is 3000kg.
- The angle ' θ ' of spread between crane chains must not exceed 60° .

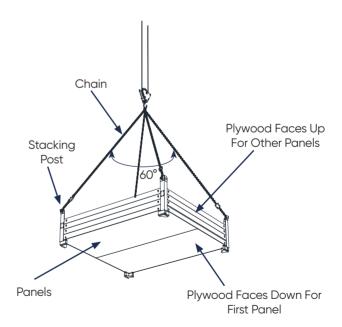
Lifting the Acrowall-80 Panel from horizontal to vertical position.

When panels are used horizontally in a multiheight gang form to be crane handled, additional Alignment Clamps and Compensation Walers will be required.



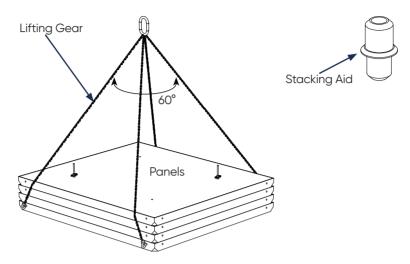
Stacking Posts

The Stacking Post is used to handle up to 5 panels of any size except 3300x2400which must be lifted 4 panels in a stack. Working Load Limit of 500kg per Stacking Post. The Lifting Chain is connected to each Stacking Post and can safely take 2000kg with angle of spread between crane chains must not exceed 60°. Stacking Acrowall–80 Panels using Stacking Posts.





Lifting Gear and Lifting Pins



Stacking Acrowall-80 Panels using Lifting Gear and Lifting Pins. Stacking Aids or HT Thru Ties & Wingnuts must be used to prevent panels from slipping when panels are lifted as shown above.

The Lifting Gear and Lifting Pins are used to handle up to:

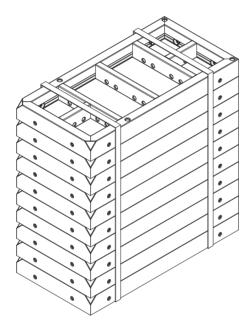
- 4 panels 3.3m × 2.4m or
- 5 panels 2.7m × 2.4m or
- 8 panels 1.2m × 2.4m or smaller

Working Load Limit per Pair = 3000kg. Angle of spread between crane chains must not exceed 60°.



Panels

- 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.

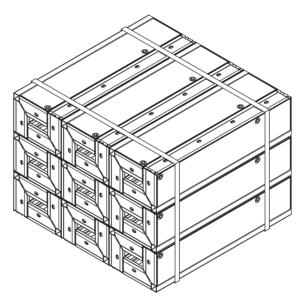


DESCRIPTION	UNIT MASS (KG)	QTY PER BUNDLE	TOTAL MASS PER BUNDLE (KG)	ACROW STILLAGE TYPE
1200 Panel Range 240 - 720mm	60.0 max	5	300	Bundle
1200 Panel Range 900 - 2400mm	195.0 max	5	975	Bundle
2700 Panel Range 240 - 720mm	121.0 max	5	605	Bundle
2700 Panel Range 900 - 2400mm	392.0max	5	1960	Bundle
3300 Panel Range 240 - 720mm	145.0max	5	725	Bundle
3300 Panel Range 900 - 2400mm	472.0 max	5	2360	Bundle
MP Panels 1200 x 720	72.0	5	360	Bundle
MP Panels 2700 x 720	135.0	5	675	Bundle
MP Panels 3300 x 720	176.0	5	880	Bundle
600 High Panels 600 x 300	20.0	5	100	Bundle
600 High Panels 600 x 600	32.0	5	160	Bundle
600 High Panels 600 x 720	37.0	5	185	Bundle
600 High Panels 600 x 900	43.0	5	215	Bundle



Corner & Articulated Panels

- 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.

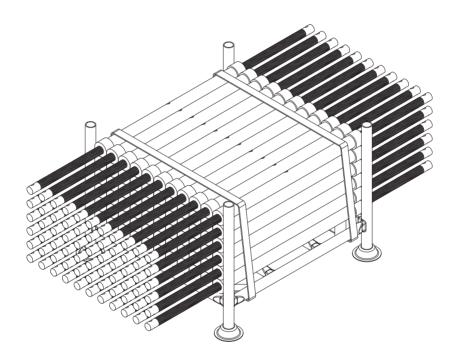


DESCRIPTION	UNIT MASS (KG)	QTY PER STILLAGE	TOTAL MASS PER STILLAGE (KG)	ACROW STILLAGE TYPE
ICP 600 x 300 x 300	31.0	18	558	Bundle
ICP 1200 x 300 x 300	63.0	18	1134	Bundle
ICP 2700 x 300 x 300	108.0	10	1080	Bundle
ICP 3300 x 300 x 300	131.0	10	1310	Bundle
ACP 1200 x 292 x 292	78.0	18	1404	Bundle
ACP 2700 x 292 x 292	164.0	8	1312	Bundle
ACP 13000 x 292 x 292	199.0	8	1592	Bundle



Kicker Brace / Push-Pull Prop

- Stack items next to and on top to 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.

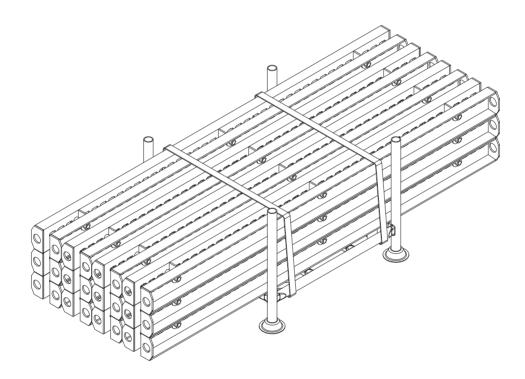


DESCRIPTION	UNIT MASS (KG)	QTY PER STILLAGE	TOTAL MASS PER STILLAGE (KG)	ACROW STILLAGE TYPE
Push/Pull Prop (2050-2940mm)	27.0	40	1080	SP
Push/Pull Prop (2900-3800mm)	31.0	35	1085	SP
Push/Pull Prop (4600-6000mm)	69.0	15	1035	SP
Kicker Brace (1080-1400mm)	14.0	60	840	SP
Kicker Brace (1280-2100mm)	20.0	50	1000	SP
Kicker Brace (2030-12940mm)	26.0	40	1040	SP



Walers

- · Stack items next to and on top to 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
Compensation Waler 850	13.5	12	162	MP
Compensation Waler 1200	19.0	12	228	SP
Universal Waler	89.0	12	1068	SP

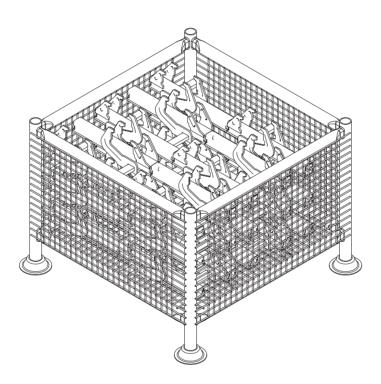


Alignment Clamp / Brackets

The Acrow stillage is used to store a set number of items per a 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 to 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
Alignment Clamp	4.5	32	144	MEP
Alignmant Clamp 380	5.5	32	176	MEP
Top Handrail Post Bracket	1.8	60	108	MEP
Frame Anchor Bracket	2.3	100	230	MEP
Plumbing Shear Bracket	14.0	40	560	MEP
Working Platform Bracket	17.0	20	340	MP

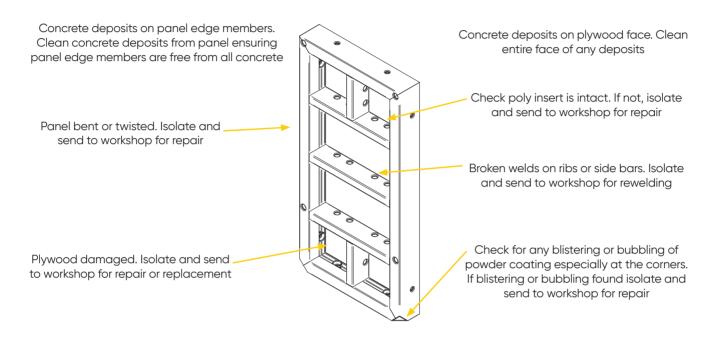


7. MAINTENANCE & INSPECTION



Panel

The panel is the main component in the Acrowall-80 system. The panel's plywood surface forms the surface finish for the wall being poured, it is therefore of the utmost importance that the plywood face be clean and undamaged. The straightness of the panel and the integrity of its welds are also of paramount importance.



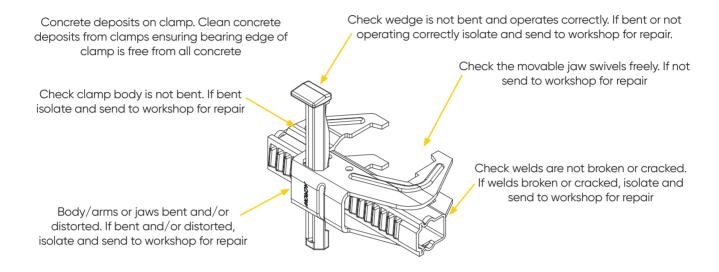
Inspection

POSSIBLE FAULTS	DAMAGE LIMITS FOR REPAIR	RECOMMENDED ACTION
Panel bent or twisted	Panel 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 & reweld* (* See WI- GE-100)
Ribs or edge members buckled or damaged	Ribs and edge members must be straight	Straighten or replace if possible otherwise scrap* (* See WI-GE-103)
Concrete deposits on plywood face	Plywood face must be clear of any concrete deposits	Clean off all concrete deposits DO NOT USE WATER BLASTER ON PLYWOOD SURFACE
Concrete deposits on edge members	Edge members must be free of all concrete	Clean off all concrete with scraper or water blaster
Plywood damaged	Small nail holes acceptable	Replacing plywood if damage not repairable
Poly inserts missing	Poly insets must be in place otherwise concrete leakage will occur	Replace ply ensuring ply has poly inserts
Blistering or bubbling of powder coating	Blistering or bubbling indicates rust under the paintwork which must be treated.	Clean paint away and remove/treat the rust. If damage is detrimental to the strength of the panel then replace affected components & repaint.



Aligning Clamps

Acrowall-80 aligning clamps are used to keep the panels to the true alignment.



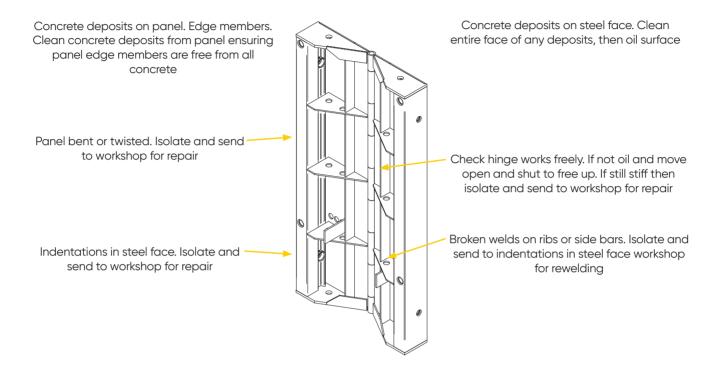
Inspection

POSSIBLE FAULTS	DAMAGE LIMITS FOR REPAIR	RECOMMENDED ACTION
Clamp body bent	Body must be straight	Straighten if possible, otherwise scrap* (* See WI-GE-103)
Concrete deposits on clamps	Clamps must be free of concrete	Clean concrete deposits from clamps ensuring the bearing edge of clamp is free of concrete
Welds broken or cracked	Welds must be intact	Grind back and reweld* (* See WI- GE-100)
Check wedge is not bent and operates correctly	Wedge must operate freely and lock clamp in position	Straighten wedge and clear any obstructions. If not possible replace wedge.
Movable jaws stiff or frozen	Movable jaws must swivel & move freely	Oil and straighten and tap with hammer to free up, if not possible then scrap* (* See WI-GE-103)
Body/arms or jaws bent and/or distorted	Body, arms and jaws must be intact and the correct profile	Straighten if possible , if not possible then scrap* (* See WI-GE-103)



Articulated Corner Panel

Articulating Corner Panels are used in an Acrowall -80 arrangement where the return section of the wall to be poured is not a true right angle.



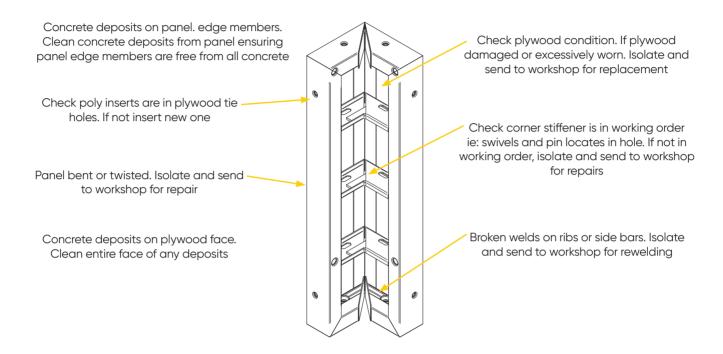
Inspection

POSSIBLE FAULTS	DAMAGE LIMITS FOR REPAIR	RECOMMENDED ACTION
Panel bent or twisted	Panel must be straight	Straighten if possible, otherwise scrap* (* See WI-GE-103)
Concrete deposits on edge members	Edge members must be free of concrete	Clean concrete deposits from edge members with scraper
Concrete deposits on Panel surface	Panel surface must be free of concrete	Clean concrete deposits from clamps ensuring the bearing edge of clamp is free of concrete
Welds broken or cracked	Welds must be intact	Grind back and reweld* (* See WI- GE-100)
Hinge does not work freely	Hinge must open & shut freely	Oil and force move back and forth to loosen hinge, seek any problem source and rectify. If unable to free hinge then the panel should be scrapped* (* See WI-GE-103)
Indentations in steel face	Steel face should be dent free	Panel beat out any indentations



Internal Corner Panel

Hinged Corner Panels are used in an Acrowall arrangement where the return section of the wall to be poured is a true right angle



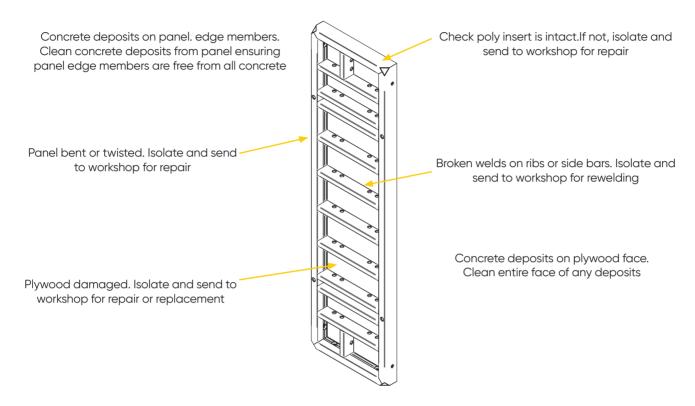
Inspection

POSSIBLE FAULTS	DAMAGE LIMITS FOR REPAIR	RECOMMENDED ACTION
Panel bent or twisted	Panel must be straight	Straighten if possible, otherwise scrap* (* See WI-GE-103)
Concrete deposits on edge members	Edge members must be free of concrete	Clean concrete deposits from edge members with scraper
Concrete deposits on plywood face	Plywood face must be free of concrete	Clean concrete deposits from plywood face
Welds broken or cracked	Welds must be intact	Grind back and reweld* (* See WI – GE-100)
Corner stiffener does not swivel or pin does not locate in hole	Corner stiffener must swivel and pin must locate in hole	Straighten if bent, otherwise replace with new stiffener
Ply damaged or excessively worn	Ply must be in acceptable condition to provide reasonable concrete finish	Replace ply ensuring ply has poly inserts
Poly insert missing in plywood at tie holes	Tie holes must have poly insert	Insert new poly inserts



Multi Panels

The Acrowall-80 Multi panel is used in the external form at corner junctions to enable a tie position in the external form to line up with the internal form.



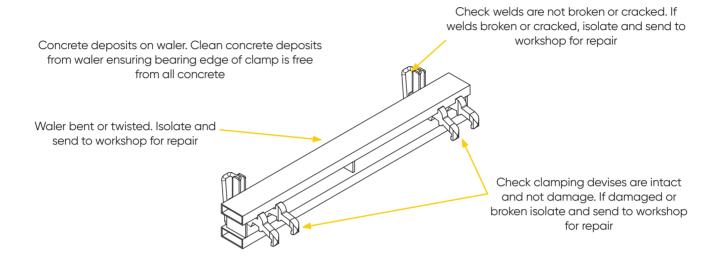
Inspection

POSSIBLE FAULTS	DAMAGE LIMITS FOR REPAIR	RECOMMENDED ACTION
Panel bent or twisted	Panel 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 & reweld* (* See WI- GE-100)
Ribs or edge members buckled or damaged	Ribs and edge members must be straight	Straighten or replace if possible otherwise scrap* (* See WI-GE-103)
Concrete deposits on plywood face	Plywood face must be clear of any concrete deposits	Clean off all concrete deposits DO NOT USE WATER BLASTER ON PLYWOOD SURFACE
Concrete deposits on edge members	Edge members must be free of all concrete	Clean off all concrete with scraper or water blaster
Plywood damaged	Small nail holes acceptable	Replacing plywood if damage not repairable
Poly inserts missing	Poly insets must be in place otherwise concrete leakage will occur	Replace ply ensuring ply has poly inserts



Compensation Walers

Waler is used as an alignment member.



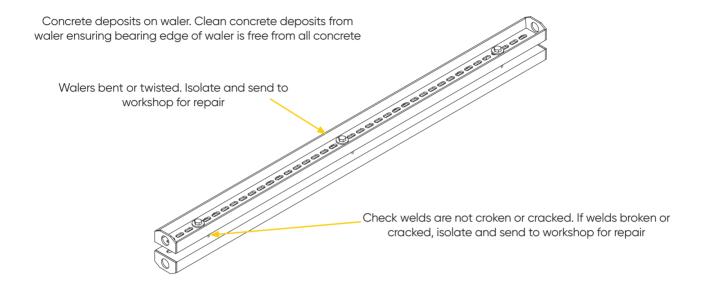
Inspection

POSSIBLE FAULTS	DAMAGE LIMITS FOR REPAIR	RECOMMENDED ACTION
Waler bent	Waler must be straight	Straighten if possible, otherwise scrap* (* See WI-GE-103)
Concrete deposits on waler	Waler must be free of concrete	Clean concrete deposits from walers ensuring the bearing edge of waler is free of concrete
Welds broken or cracked	Welds must be intact	Grind back and reweld* (* See WI- GE-100)
Clamping devises broken or damaged	Clamping devises must not be damaged and must operate functionally	Repair or replace if unrepairable



Universal Waler

Walers are used as an alignment member



Inspection

POSSIBLE FAULTS	DAMAGE LIMITS FOR REPAIR	RECOMMENDED ACTION
Walers bent	Walers must be straight	Straighten if possible, otherwise scrap* (* See WI-GE-103)
Concrete deposits on walers	Walers must be free of concrete	Clean concrete deposits from walers ensuring the bearing edge of waler is free of concrete
Welds broken or cracked	Welds must be intact	Grind back and reweld* (* See WI- GE-100)



Brace Connector

The Brace Connector is used when a raking brace needs to be connected to the panel assembly to provide stability.

Check gap between cheek plates is parallel and plates are not bent. If gap not parallel or plates bent isolate and send to workshop for repair

Concrete deposits on clamp. Clean concrete deposits from clamps ensuring bearing edge of connector is free from all concrete

Check clamp body is not bent. If bent isolate and send to workshop for repair

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

Check wedge is not bent and operates correctly. If bent or not operating correctly isolate and send to workshop for repair.

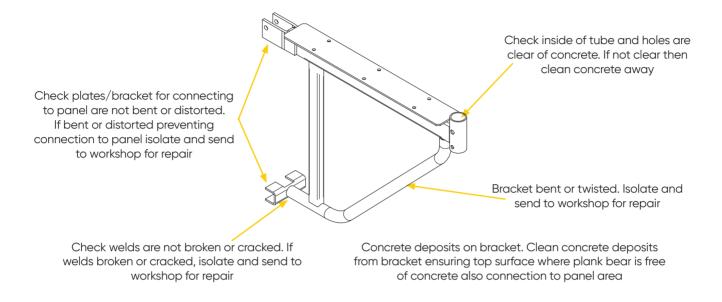
Inspection

POSSIBLE FAULTS	DAMAGE LIMITS FOR REPAIR	RECOMMENDED ACTION
Clamp body bent	Body must be straight	Straighten if possible, otherwise scrap* (* See WI-GE-103)
Concrete deposits on clamps	Clamps must be free of concrete	Clean concrete deposits from clamps ensuring the bearing edges of connector is free of concrete
Welds broken or cracked	Welds must be intact	Grind back and reweld* (* See WI- GE-100)
Check wedge is not bent and operates correctly	Wedge must operate freely and lock connector in position	Straighten wedge and clear any obstructions If not possible replace wedge.
Gap between cheek plates not parallel	Gap must be parallel	Straighten and check gap size
Cheek plates bent	Cheek plates must be straight and not bent from body of the connector	Straighten and check gap size



Working Platform Bracket

The Walkway Bracket provides a 3 board wide access way along the form face.



Inspection

POSSIBLE FAULTS	DAMAGE LIMITS FOR REPAIR	RECOMMENDED ACTION
Bracket bent or twisted	Bracket must be straight	Straighten if possible, otherwise scrap* (* See WI-GE-103)
Concrete deposits on bracket	Bracket must be free of concrete	Clean concrete deposits from bracket ensuring the top edge of bracket is free of concrete
Welds broken or cracked	Welds must be intact	Grind back and reweld* (* See WI- GE-100)
Handrail socket clogged with concrete	Handrail socket must be totally free of concrete deposits	Clean concrete deposits from socket ensuring the inside of tube and holes are free of concrete
Plate/bracket for connection to panel bent or distorted	Plates/bracket for connecting to panel must not be bent or distorted	Straighted or replace



Base Plate

The Base Plate is used to secure the Push-Pull Prop or the Kicker Brace to the slab or footing.

Concrete deposits on Base plate. Clean concrete deposits from base plate ensuring gap between cheek plates is clear of concrete

Check cheek plates are square and parallel. If not square and/or parallel isolate and send to workshop for repair.

Plate bent or twisted. Isolate and send to workshop for repair



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

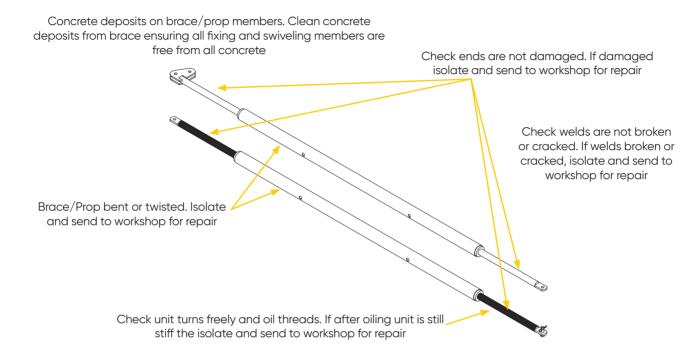
Inspection

POSSIBLE FAULTS	DAMAGE LIMITS FOR REPAIR	RECOMMENDED ACTION
Concrete deposits on Base Plate	Base Plate must be free of all concrete	Clean off all concrete with scraper or water blaster
Welds broken or cracked	All welds must be intact	Grind back & reweld* (* See WI- GE-100)
Cheek plates not square and/or parallel	Cheek Plates must be square and parallel	Straighten if not possible remove and weld new cheek plate or scrap* (* See WI-GE-103)
Hinge pin missing or bent or missing	Hinge pin must be in place and must be straight	Replace hinge pin
R clip missing on hinge pin	Hinge pin must have an R clip	Replace R pin
Anchor plate bent or twisted	Anchor plate must be straight	Straighten if possible otherwise scrap* (* See WI-GE-103)



Kicker Brace/Push-Pull prop

Used to plumb panels



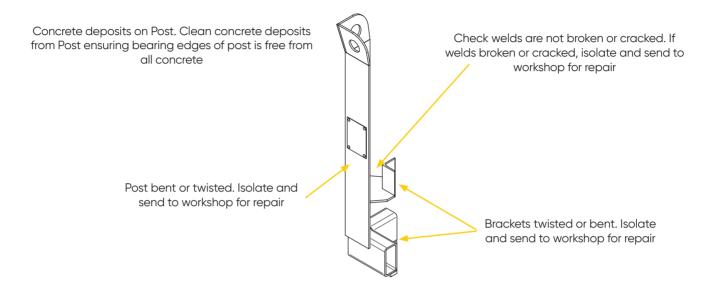
Inspection

POSSIBLE FAULTS	DAMAGE LIMITS FOR REPAIR	RECOMMENDED ACTION
Brace/Prop bent	Kicker Brace/Prop must be straight	Straighten if possible, otherwise scrap* (* See WI-GE-103)
Ends do not turn freely	Ends must turn freely	Oil shaft and remove any obstructions on thread and force turn ends until they turn freely, if not possible scrap* (*See WI 145)
Welds broken or cracked	Welds must be intact	Grind back and reweld* (* See WI- GE-100)
Ends damaged	Ends must be undamaged	Repair and straighten if possible, otherwise scrap* (* See WI-GE-103)
Concrete deposits on Prop/kicker brace	Prop must be free of concrete deposits	Clean concrete off Brace particularly around thread and ends



Stacking Post

The Stacking Post is used tin conjunction with the Acrowall-80 Lifting Gear to lift and transport stacks of Acrowall-80 panel.



Inspection

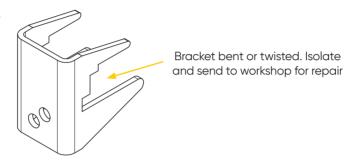
POSSIBLE FAULTS	DAMAGE LIMITS FOR REPAIR	RECOMMENDED ACTION
Post bent or twisted	Post must be straight and free of twist	Straighten if possible otherwise scrap* (* See WI-GE-103)
Welds broken or cracked	All welds must be intact	Grind back & reweld* (* See WI- GE-100)
Bottom bracket members buckled or damaged	All members of the Post must be undistorted	Tighten or replace if possible otherwise scrap* (* See WI-GE-103)
Concrete deposits on post	Post must be free of all concrete	Clean off all concrete with scraper or water blaster



Top Tie Bracket

The Top Tie Bracket is used to provide a tie fixing above the top of the panels with the tie not being placed within the concrete.

Concrete deposits on Bracket. Clean concrete deposits from Bracket ensuring bearing edges are free from all concrete

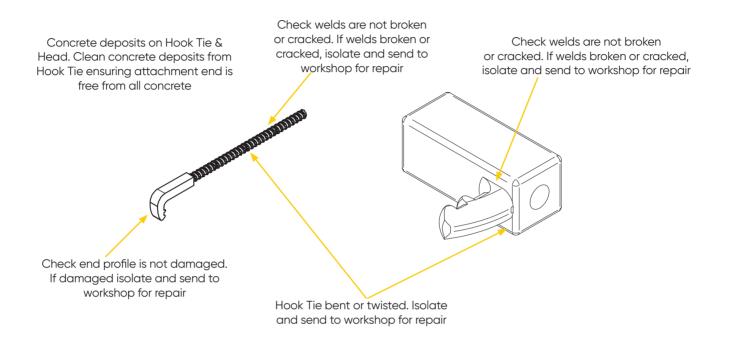


Inspection

POSSIBLE FAULTS	DAMAGE LIMITS FOR REPAIR	RECOMMENDED ACTION
Bracket buckled or damaged	Bracket must be straight	Straighten if possible otherwise scrap* (* See WI-GE-103)
Concrete deposits on Bracket	Bracket must be free of all concrete	Clean off all concrete with scraper or water blaster



Hook Tie DW15 & Hook Tie Head DW15



Inspection

POSSIBLE FAULTS	DAMAGE LIMITS FOR REPAIR	RECOMMENDED ACTION
Hook Tie bent or twisted	Hook Tie 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 & reweld* (* See WI- GE-100)
Concrete deposits on Hook Tie	Hook Tie must be free of all concrete	Clean off all concrete with scraper or water blaster
End profile damaged	End profile must be correct profile	Straighten if possible otherwise scrap



Waler Stop

The Waler Stop is used external corner of a wall in conjunction with a Waler Stop Tie to connect it to a Universal Waler at the external corner of a wall.

Concrete deposits on Waler Stop. Clean concrete deposits from Waler ensuring bearing edge and holes are free from all concrete



Inspection

POSSIBLE FAULTS	DAMAGE LIMITS FOR REPAIR	RECOMMENDED ACTION
Waler Stop bent or twisted	Waler Stop must be straight	Straighten if possible otherwise scrap* (* See WI-GE-103)
Concrete deposits on Waler Stop	Waler Stop must be free of all concrete	Clean off all concrete with scraper or water blaster



Waler Stopend

The Stopend Tie is used in conjunction with the Waler Stopend to tie the two form faces together at the external corner position of a wall.

Concrete deposits on Stopend Tie. Clean concrete deposits from Stopend Tie ensuring attachment end is free from all concrete



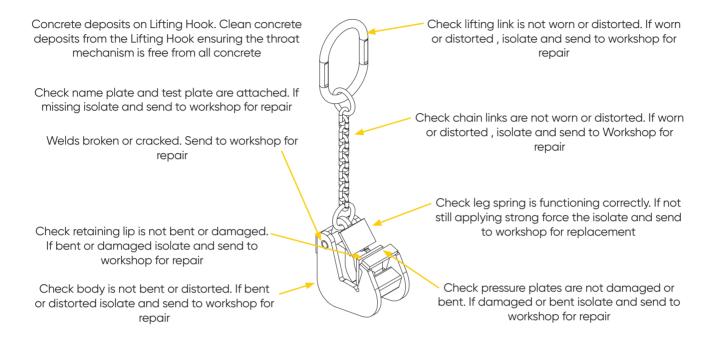
Inspection

POSSIBLE FAULTS	DAMAGE LIMITS FOR REPAIR	RECOMMENDED ACTION
Stopend Tie bent or twisted	Stopend Tie 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 & reweld* (* See WI- GE-100)
Concrete deposits on Stopend Tie	Stopend Tie must be free of all concrete	Clean off all concrete with scraper or water blaster
End profile damaged	End profile must be correct profile	Straighten if possible otherwise scrap



Lifting Hook

The Acrowall-80 Lifting Hooks are used in pairs to lift panel assemblies. Must be in original shape and strength.



Inspection

POSSIBLE FAULTS	DAMAGE LIMITS FOR REPAIR	RECOMMENDED ACTION
Concrete deposits on Lifting Hook	Lifting Hook must be free of all concrete	Clean off all concrete particularly in the throat mechanism
Welds broken or cracked	All welds must be intact	Grind back & reweld* (* See WI- GE-100)
Chain links are worn or distorted	Chain links must free from wear or distorted	Replace chain
Lifting link is worn or distorted	Lifting link must free from wear or distorted	Replace lifting link
Leg spring not functioning correctly Spring has lost its strength	Spring must be strong and force the Lifting Hook to clamp tightly to the panel	Replace the spring
Pressure plates damaged or bent	Pressure plates must be undamaged and straight	Straighten and repair or replace
Body bent or distorted	Body must be straight	Straighten if possible otherwise scrap
Retaining lip bent or damaged	Retaining lip must be straight and intact	Straighten and repair or replace
Mane plate and/or test plate missing	Mane plate and/or test plate must be attached	Attach name and/or test plate



LOCATIONS

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Screens Head Office

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Formwork & Scaffold 280 Bilsen Road Geebung QLD 4034

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