Drawing No	Revision	Description
SFS0001	A	Fixing Super-Form Bracket bases down with concrete bolts or wood screws
SFS0002	A	Fixing Super-Form Bracket bases down with road pins
SFS0003	A	Super-Form Using Brackets with a plywood face
SFS0004	A	Super-Form Using Brackets as a support for existing timber formwork or panel system
SFS0005	A	Super-Form Using Brackets with Symons steel ply panels
SFS0006	A	Super-Form Using Brackets for radius or curved pours
SFS0007	A	Super-Form Using Brackets for beams, walls & pile caps
SFS0008	A	Super-Form Using Brackets for slab edge on decking & falsework slabs
SFS0009	A	Super-Form Using Brackets for double sided sheet pile capping beams
SFS0010	A	Super-Form Using Brackets for wall pours
SFS0011	A	Super-Form Using Brackets as a soffit system
SFS0012	A	Super-Form Joining Brackets to increase height
SFS0013	A	Corner fixing with Super-Form Brackets
SFS0014	A	Using Dywidag tie bars with Super-Form
SFS0015	A	Attaching handrails to Super-Form
SFS0016	A	Lifting Super-Form in panels or gang forming
SFS0017	A	Use of the different Super-Form bases, feet
SFS0018	A	Fitting stop ends
SFS0019	A	Super-Form Brackets attaching, detatching pin brace attachments
SFS0020	A	Creating voids/brick ledges, box outs & the like
SFS0021	A	Using Blind bolts when using Super-Form brackets for a soffit of sheet pile capping beam
SFS0022	A	Fixing timber to face of Super-Form Brackets & its uses
SFS0023	A	Folding Super-Form Brackets for transport or storage
SFS0024	A	Stacking Super-Form Brackets in stillages for transport
SFS0025	A	Cleaning & oiling Super-Form brackets (General Maintenance)
SFS0026	A	Super-Form attaching, detaching push pull props
SFS0027	A	Super-Form using Brackets for single sided sheet pile capping beams or soffit system
SFS1000	A	DRAWING REGISTER
SFS2000	A	LOAD TABLES / SPACING FOR SUPER-FORM BRACKET SYSTEM

NOTES: Not Issued For Construction

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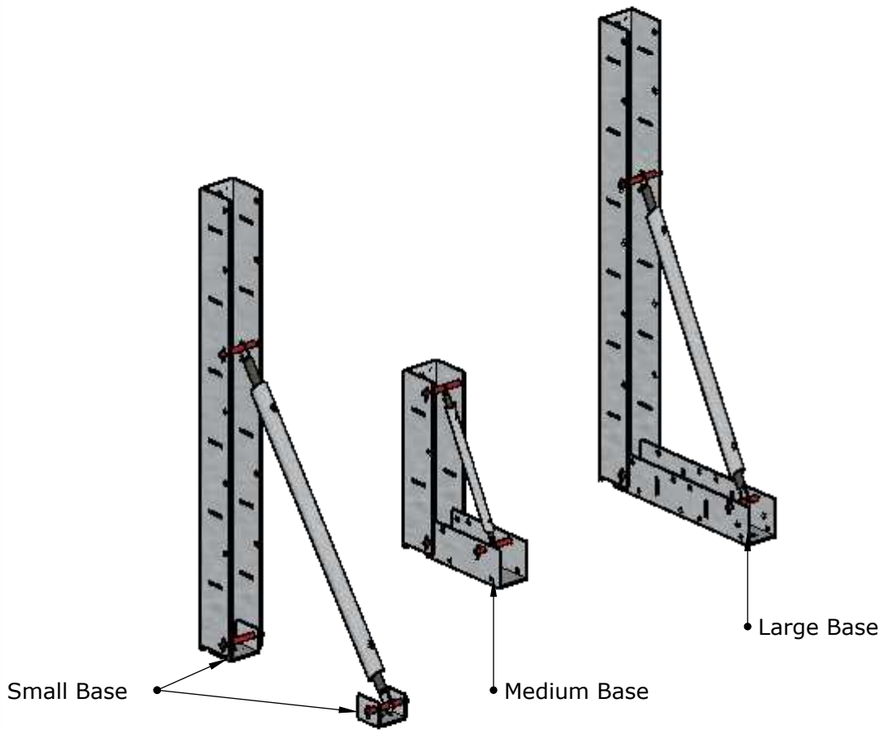
Drawing SFS1000

Description: DRAWING REGISTER SUPER-FORMS TM BRACKETS

NOTES:
All Drawings can be downloaded from our website FREE, A3 / A2 copies can be purchased and can optionally be laminated, A1 size is also available but not in a laminated format.

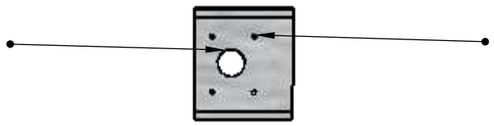
Base Examples in use



NOTE: All bracket heights can use any of the above bases.

Small Base Plan View (Bracket ommited for clarity)

Drill and fix concrete bolt Through hole, keeping bolt at the front of the hole facing plywood face



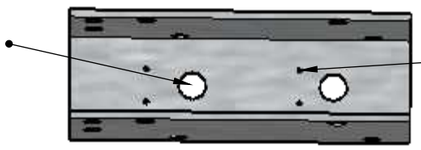
Wood screw fixing point for use on plywood decks (Use All holes) for securing to falsework 3 or 5mm x 25mm screws are recommended for plywood deck

Small base can be fixed using 1 x Concrete bolt (Re-usable) or a road pin, if using wood screws for fixing down to falsework then it is recommended that you use all available wood screw fixing holes.

NOTE: M16 Concrete bolt with washer collar is ideal at 14mm shaft in the 18mm hole, please make sure the bolt is to the front of the hole facing towards the concrete face. For M16 bolts use a 14-15mm drill bit. You will also need an Impact Drill & Bit for Concrete bolts.

Medium Base Plan View (Bracket ommited for clarity)

Drill and fix concrete bolt Through hole, keeping bolt at the front of the hole facing plywood face Only one bolt is required



Wood Screw holes, (Use all available holes) when fixing to falsework and plywood surfaces use size 3 or 5mm x 25mm screws

Medium base can be fixed using 1 x Concrete bolt (Re-usable) or a road pin, if using wood screws for fixing down to falsework then it is recommended that you use all available wood screw fixing holes.

NOTE: M16 Concrete bolt with washer collar is ideal at 14mm shaft in the 18mm hole, please make sure the bolt is to the front of the hole facing towards the concrete face. For M16 bolts use a 14-15mm drill bit. You will also need an Impact Drill & Bit for Concrete bolts.

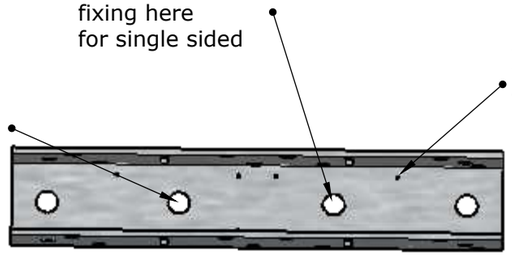
Drawing SFS0001 REV A
Description: Fixing of bases with concrete bolts & wood screws

For a full list of available drawings please see DRAWING REGISTER SFS1000

Large Base Plan View (Bracket ommited for clarity)

Drill and fix concrete bolt Through this hole, keeping bolt at the front of the hole facing plywood face Only one bolt is required unless its a single sided pour

Use Second fixing here for single sided



Wood Screw holes, (Use at least 4 but prerefably all available holes) when fixing to falsework and plywood surfaces use 3 or 5mm x 25mm screws

Large base can be fixed using 1 x Concrete bolt (Re-usable) or a road pin, if using wood screws for fixing down to falsework then it is recommended that you use all available wood screw fixing holes.

NOTE: M16 Concrete bolt with washer collar is ideal at 14mm shaft in the 18mm hole, please make sure the bolt is to the front of the hole facing towards the concrete face. For M16 bolts use a 14-15mm drill bit. You will also need an Impact Drill & Bit for Concrete bolts.

NOTES:

For fixing with road pins see Drawing no SFS0002

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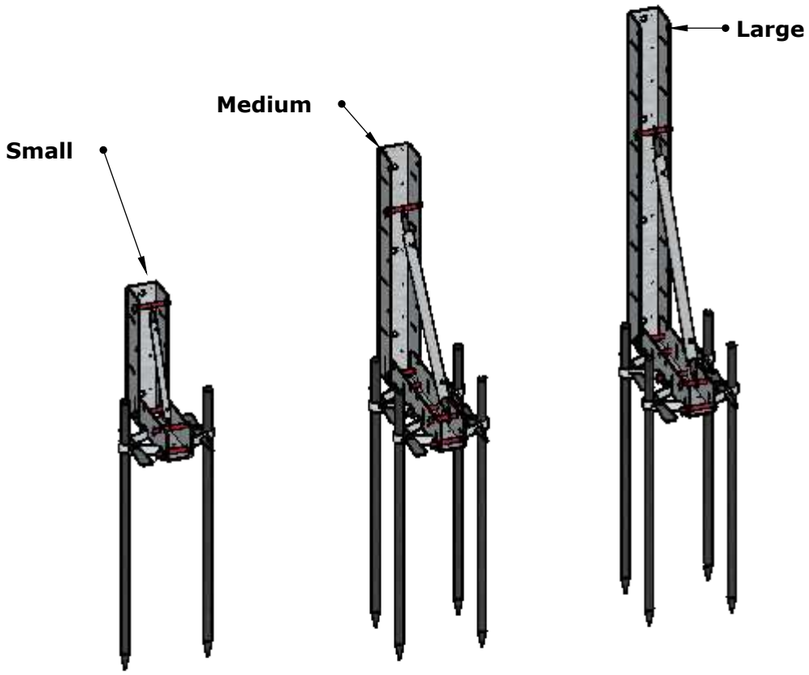
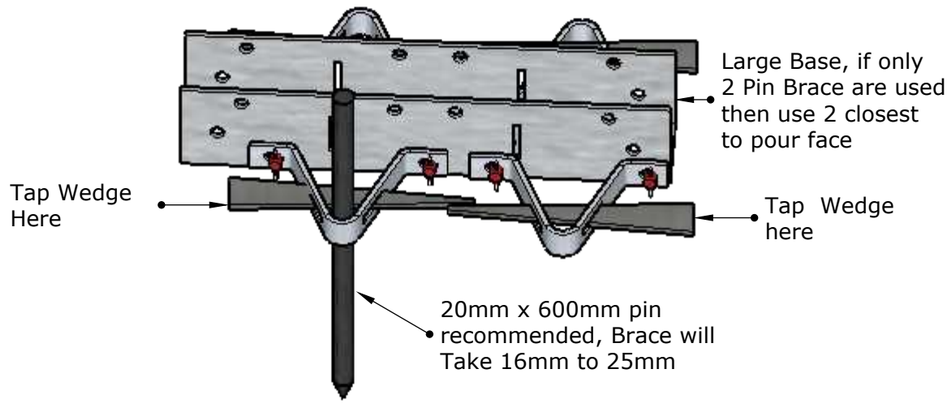
Road Pin Base Examples



Shown are the 3 standard sizes, Small can take 2 Pin Braces, the Medium and Large can have 2 or 4 (4 shown), Pin brace attachments are bolted onto the Bases. Recommended road pin size is 20mm Dia by 600mm long

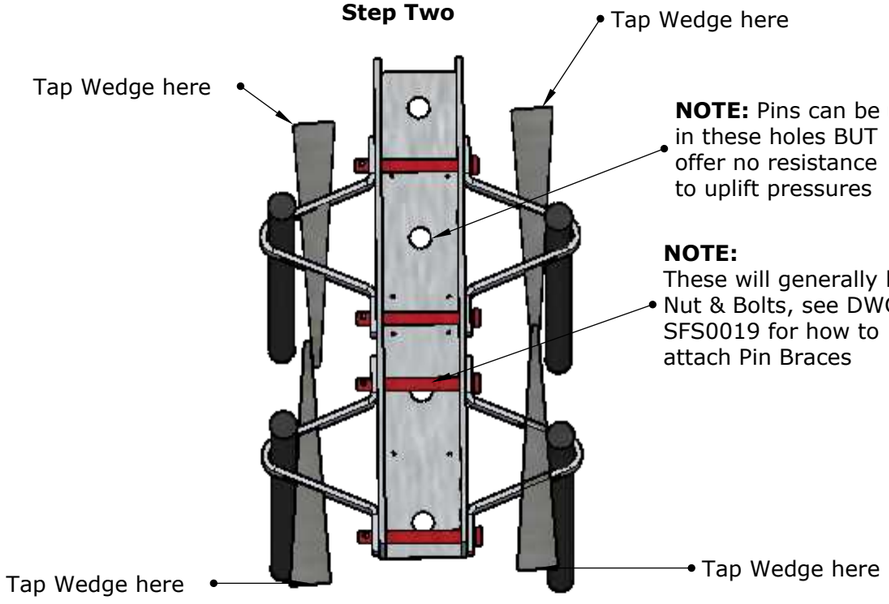
Step One

NOTE: Upright is only ommitted for clarity, it does NOT need to be removed



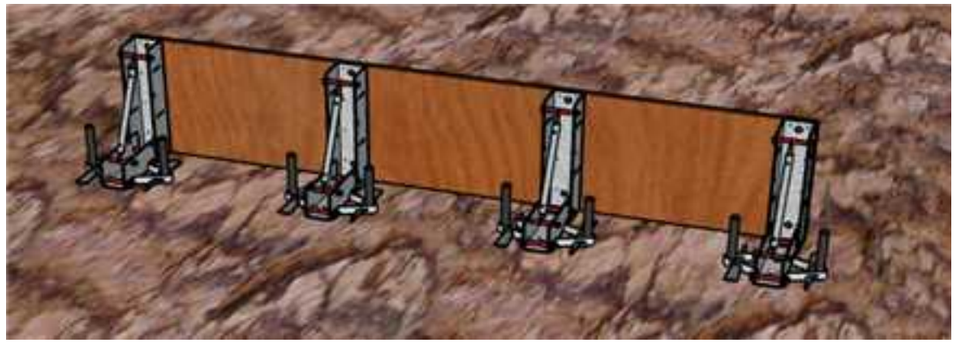
1. Simply insert road pin in the gap, drive into the ground and secure using the wedge to trap the pin in the brace securely using a hammer.
2. Repeat for all pins on the base.
3. For bracket/plywood fixing instructions see drawings SFS0003 for proping existing Timber formwork or panels see SFS0004 and for using as a brace for Symons Steel Ply see SFS0005, for corners see SFS0013.

Step Two



1. Repeat Step One for all pins required and your base is secure.

Step Three



Fix plywood and pour, see SFS0003 for bracket and plywood fixing.

Shown is an example of Small brackets with 2 Pin Braces fixed to ground.

Drawing SFS0002 REV A
Description: Fixing Super-Form Brackets down with Road Pins

For a full list of available drawings please see DRAWING REGISTER SFS1000

NOTES:
Before using road pins you should Cat & Genney the area to make sure the ground contains no services or obstructions & also make sure the ground is suitable to withstand the concrete pressures.

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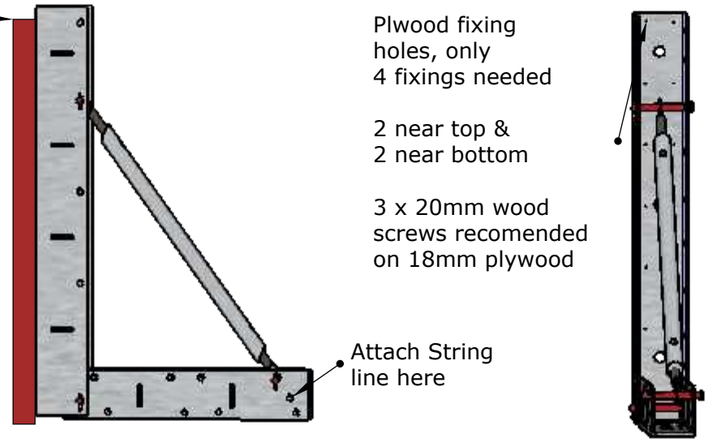
Step One

Use min 18mm Structural grade plywood



Plwood fixing holes, only 4 fixings needed

2 near top &
2 near bottom

3 x 20mm wood screws recomended on 18mm plywood

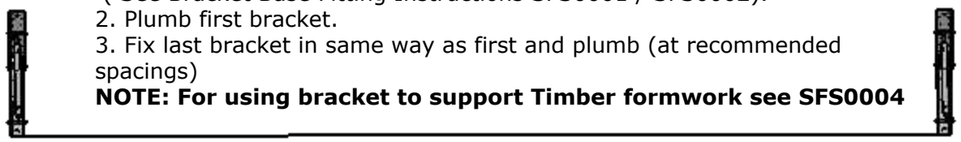
Attach String line here

1. Fix down with bracket face 18mm back from the face of the concrete (See Bracket Base Fitting Instructions SFS0001 / SFS0002)
2. Plumb the first bracket.

Step two

1. Fix down with bracket face 18mm back from the face of the concrete (See Bracket Base Fitting Instructions SFS0001 / SFS0002).
2. Plumb first bracket.
3. Fix last bracket in same way as first and plumb (at recommended spacings)

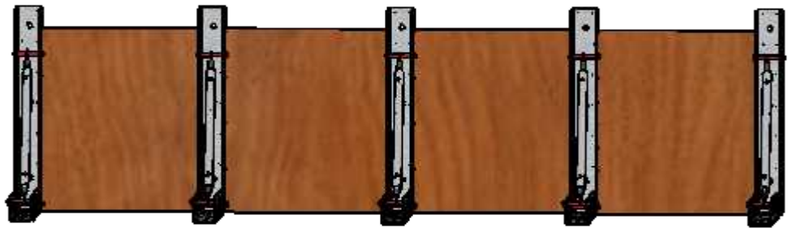
NOTE: For using bracket to support Timber formwork see SFS0004



4. String line the back of the brackets and place and fix all brackets at recomended spacings.
5. Place string line on Front face between first and last and plumb all brackets. (At Top of Front Face)
6. For Corners & Radius pours see relevant drawings

CENTRES / SPACINGS: 488mm centre to centre of bracket is the standard spacing and leaves approx 400mm of unsupported plywood which will offer a fair faced finish, if the line is not crucial then you can go up to 610mm centre to centre, only use 610mm for buried or unseen finishes such as ground beams etc.
For Single sided pours you will need to seek advice or close centres.(See Load Table)

Step Three



1. Place plywood to front face of the brackets.
2. Secure plywood with 4 wood screws as noted in Step one.
3. NOTE: if you intend to 'Gang Form' or lift sections after pouring then it is recommended you use all available screw holes, for more details on moving system in panels see 'Gang Forming / Lifting drawings'.

Step Four

View from Rear

View from Top

Drawing SFS0003 REV A
Description: Super-Form Using Brackets with a Plywood Face

For a full list of available drawings please see DRAWING REGISTER SFS1000

NOTES:

See other drawings for fixing down brackets, attaching handrails etc.

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Fix First and Last brackets

1. Fix First and Last Bracket at recommended centres (see Load Table) though on standard 2.44m or 8' timber shutters, one bracket every 1.22m or 4' should suffice. (depending on pour height and type)
2. Set the brackets back the thickness of shutter back from the pour line.
3. Plumb each bracket.
4. String a line between the brackets, one at top and one at bottom and then you can fix the rest of the brackets at the correct centres.

NOTE: For fixing instructions see drawings SFS1001 or SFS002

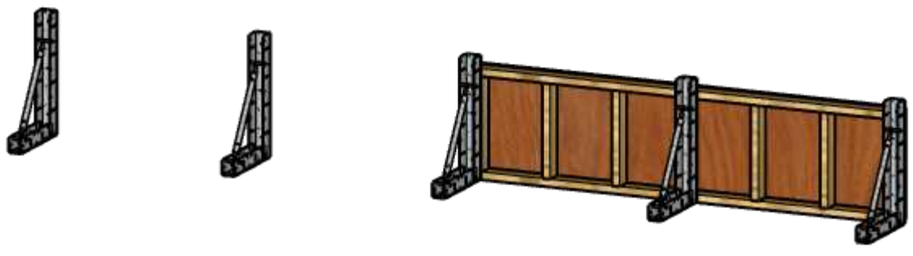
Fill brackets in between

1. Fill in all the brackets between, fixing to the string lines and plumbing as you go.
2. Once all brackets are fixed and plumbed to the string line you are ready to attach the shutters.

NOTE: Brackets can also be used to brace other panel formwork systems and fixings can be made to attach them to the brackets.

Symons Steel Ply can fix directly to a Bracket at up to 8' or 2.44m Centres, for instructions on working with Steel Ply see drawing SFS0005.

Fix shutter or Panel system to the brackets



1. Timber formwork can be screwed to the bracket using the wood screw fixing holes in the front face of the bracket.

NOTE: For fixing other panel systems to the brackets please ask for advice.

Complete & Pour

1. Finish adding all the panels and pour!.

NOTE: For fixing Handrails please see drawing SFS0015.

For Corners, Stop Ends, Beams, Walls or if using Tie bars please see the relevant drawings.

Drawing SFS0004 REV A
Description: Super-Form Using brackets as a support for existing Timber shutters or Panel System.
For a full list of available drawings please see DRAWING REGISTER SFS1000

NOTES:

If unsure please refer to Load tables for Spacings.

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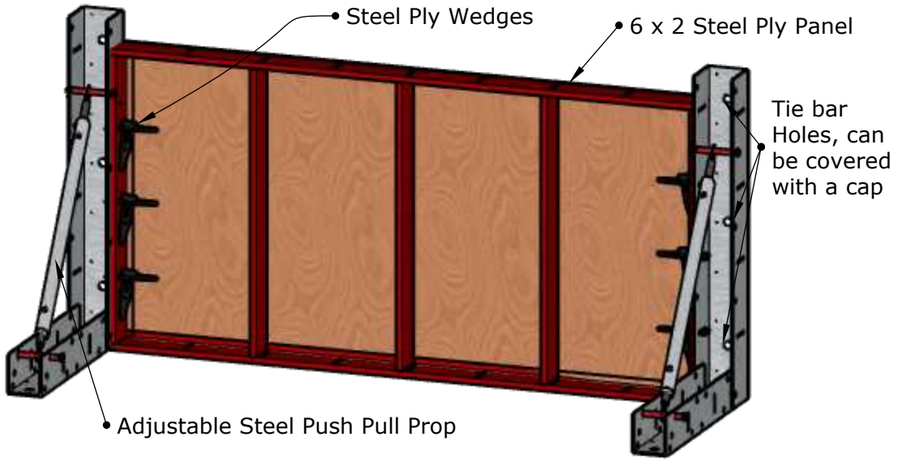
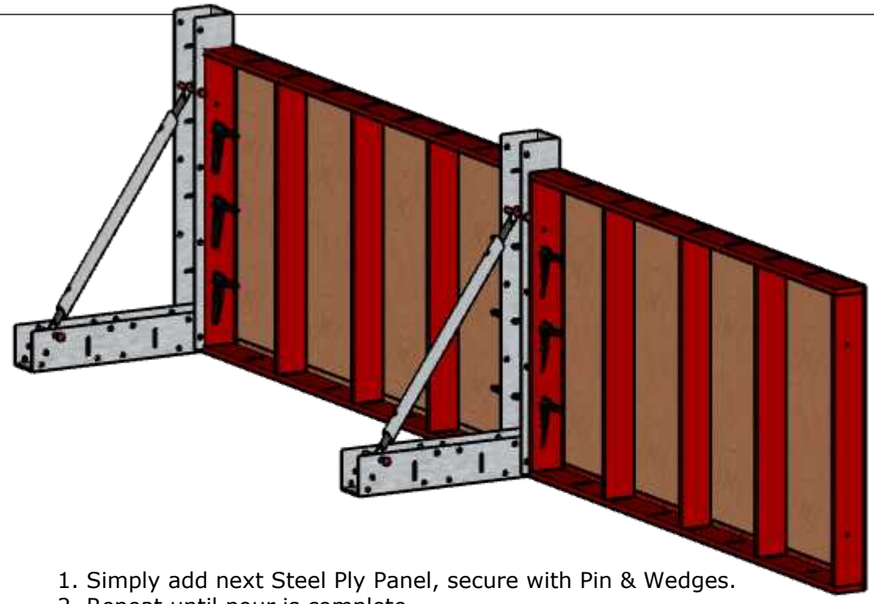
Fix Super-Form bracket and add Steel Ply



Super-Form acts as an adustable Brace / Filler Panel with Steel Ply. The face of the bracket can be poured against and filler caps are available to cover the tie bar holes in face of the bracket (if not used)

1. Fix Bracket on pour line & Plumb up.
2. Attach Steel Ply Panel using the Wedges as usual. (6 x 2 Panel shown)
3. Attach next Super-Form bracket at other end of Steel Ply, on pour line, pin and wedge as usual, fix down the bracket (See Dwgs SFS0001/2 for fixing methods) also see SFS0013 for Corners.
4. Plumb up the bracket, then repeat with the rest of the Steel ply panels

Continue to add Panels

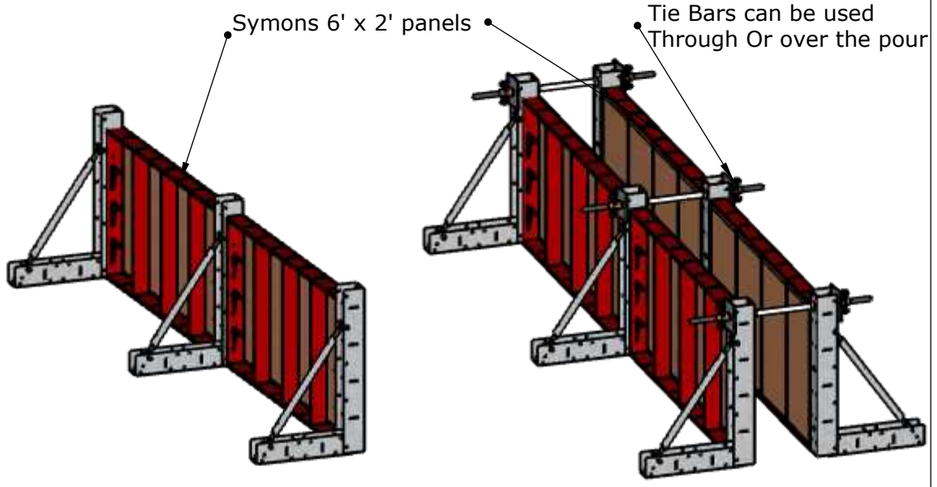


1. Simply add next Steel Ply Panel, secure with Pin & Wedges.
2. Repeat until pour is complete.
3. Super Form Bracket is also compatible with all Steel Ply accessories such as Corners & Filler Panels for filling in gaps with plywood.

NOTE: Super Form brackets **DO NOT NEED SNAP TIES** through beams and walls, re-usable tie bars can be used but in most cases are also **NOT NEEDED** or can be placed over the top of the pour, see example below. This gives a better finish with less remedial works.

Slab Edge or single sided pour

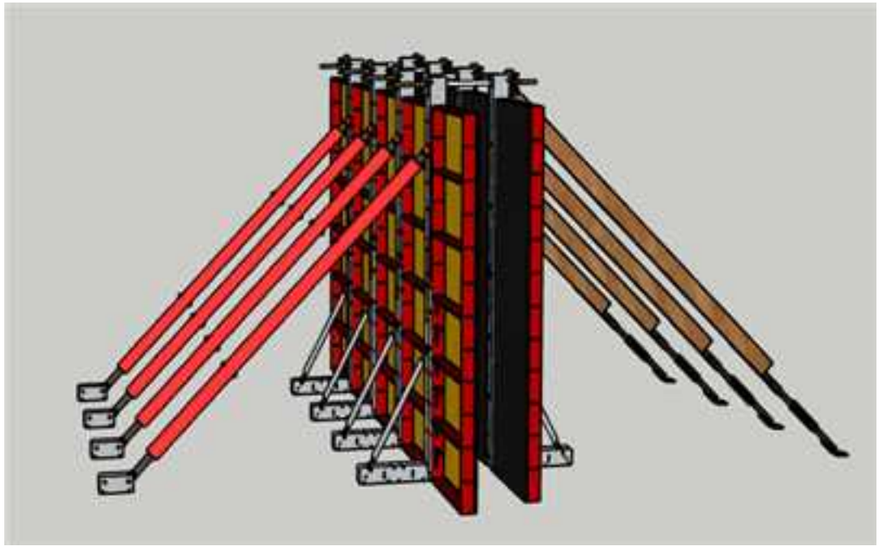
Symons Steel Ply Beam / Wall
(Tie Bars are Optional)



NOTE: For pours up to 1000mm or 3' NO TIES NEEDED or are 'Optional' if you want a fair faced finish.

Super-Form Brackets work with Steel Ply / Timber Forms and also on their own with a Plywood face.

6' Wall pour (Eliminates need for Snap Ties)



NOTE: For wall pours brackets can be extended up to 1975mm or 6' 5'', so the panel above 6' x 2' can be used vertically for a wall pour.

Steel props shown one side and Lumber/Turnbuckles the other, props are only needed on one side, this just shows both options.

Drawing SFS0005 REV A
Description: Using Brackets with Symons Steel Ply Panels

For a full list of available drawings please see DRAWING REGISTER SFS1000

NOTES:

See our other drawings for handrails, access, fitting of brackets and walls.

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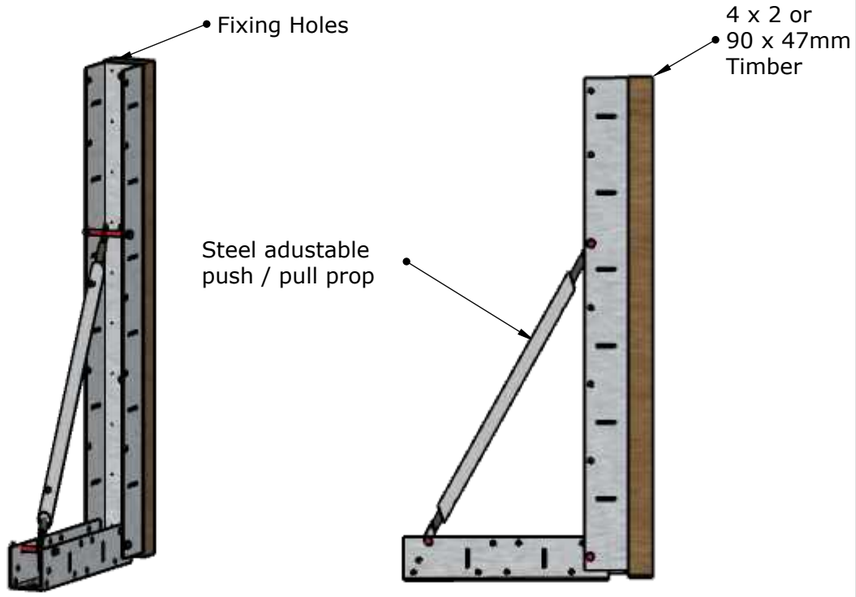
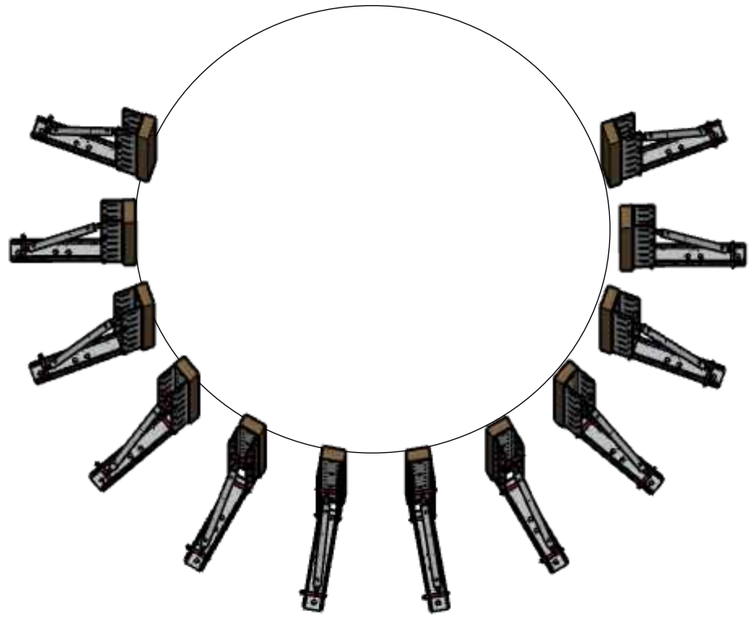
Fix 4 x 2 Timber to Face of each bracket



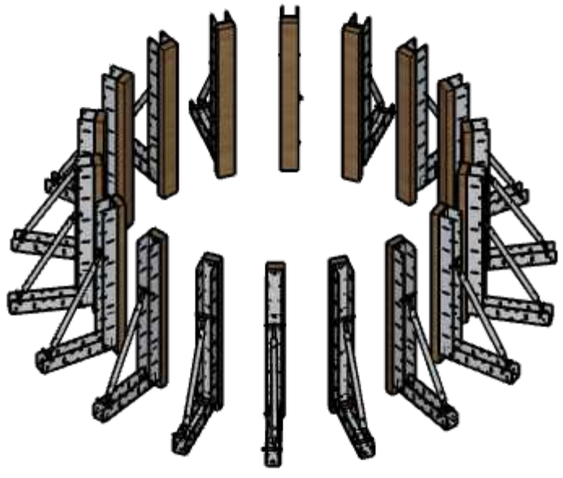
1. Fix 4 x 2 or 90 x 47mm timber to face of bracket, screw timber on from behind using the fixing holes, 2 top, 2 middle and 2 bottom is enough, on a small bracket 4 would be plenty.
2. Plywood is then able to be bent and screwed or nailed to the face of the brackets.
3. Always keep the timber after use, it can be re-used.

Mark Radius and fix Brackets



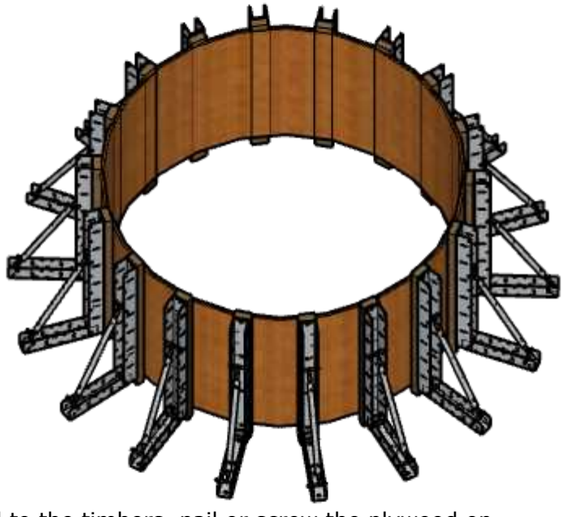
1. Mark the radius of the pour on the slab, add 18mm for plywood face.
2. Fix brackets down see DWG's SFS0001 & SFS0002 for fixing down, centres should be around 400mm apart or to suit plywood.
3. Plywood should always finish in the middle of a bracket.

Complete Bracket Fixing (Ply ommited for clarity)



1. Fix down all the brackets to the required radius.
2. Plumb up each bracket using the adustable push/pull prop
3. You are now ready to fit the plywood.
4. For Larger pours, consider tie bars over the top of the pour, see DWG SFS0014 for more details on tie bar use, all pours below 1700mm or 4.5' would not require tie bars.

Fix Plywood to timber



1. Fix plywood to the timbers, nail or screw the plywood on.
2. 18mm or 3/4 '' ply will bend to around a 3m or 10 foot radius.
3. Top Tip, if the radius is tighter simply use a 9mm or 6/8ths plywood and use 2 layers, REMEMBER to stagger Joints if using this method as it will avoid bad joints and makes the plywood easier to fix, if using this method nailing works better and there is less pressure when trying to fit the plywood.

Drawing SFS0006 REV A
Description: Super-Form Using Brackets for Radius or Curved Pours

For a full list of available drawings please see DRAWING REGISTER SFS1000

NOTES:

For more information on attaching timber to brackets, fixing brackets, handrails etc please see our other drawings.

NOTES: Not Issued For Construction

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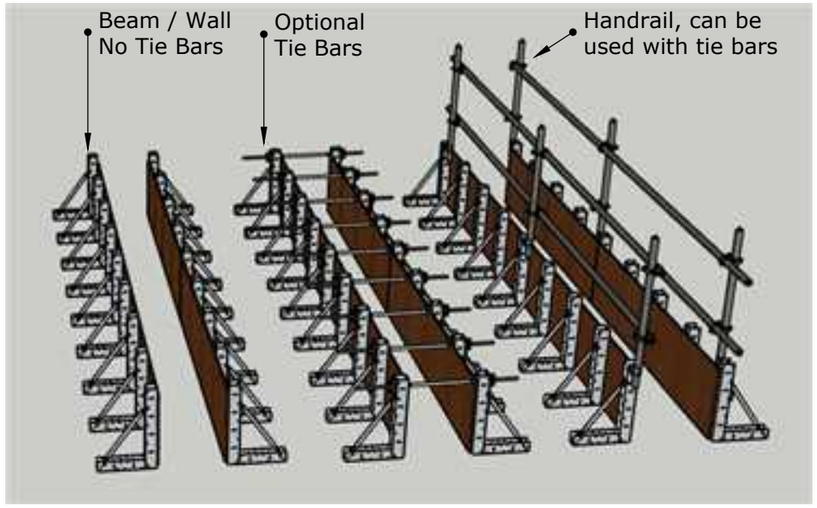
Beams / Walls with Brackets and Plywood Face

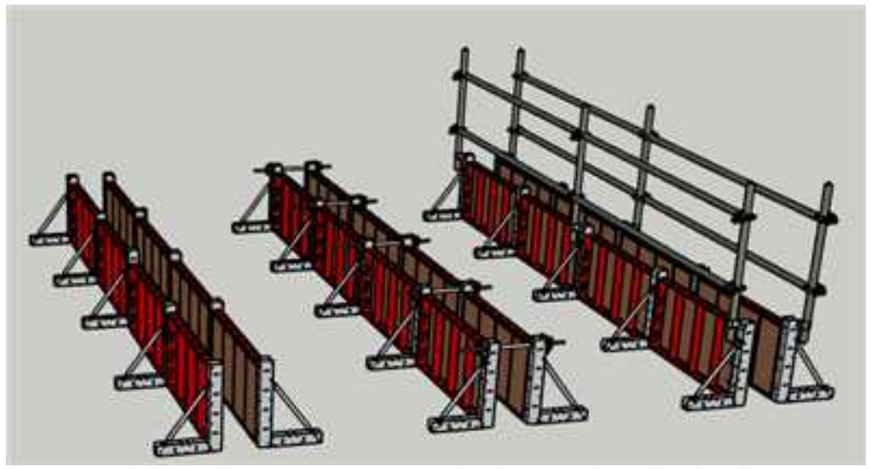


Examples of Super-Form brackets used with a plywood face at 488mm / 19'' centres, this is fair faced spacings and they can be used up to 610mm / 25'' with an 18mm / 3/4'' plywood face or wider with thicker plywood.

Shown are a beam with no tie bars over, because Super-Form brackets are adjustable after concrete is poured, there is no necessity for tie bars, however tie bars do allow a faster pour rate. Also shown is a beam with tie bars and a beam with handrails. Walls are just a taller version of these and may require tie bars, please see Dwgs SFS0010 & SFS0014 for handrails and wall fitting.

Beams / Walls with Brackets working with Symons Steel Ply

Super-Form is compatible with all Symons accessories.



Examples of Super-Form brackets used with Symons Steel Ply 6' x 2' panels, brackets are at 1800mm / 6' centres.

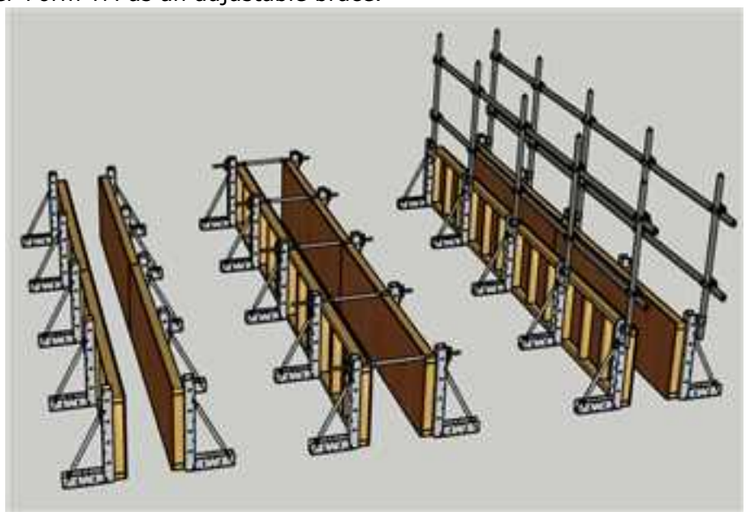
Shown are a beam with no tie bars over, because Super-Form brackets are adjustable after concrete is poured, there is no necessity for snap ties / tie bars, however tie bars do allow a faster pour rate. Also shown is a beam with tie bars and a beam with handrails. Walls are just a taller version, see wall Drawings.

Drawing SFS0007 REV A
Description: Super-Form Using Brackets for Beams, Walls & Pile Caps

For a full list of available drawings please see DRAWING REGISTER SFS1000

Beams / Walls with Timber formwork panels

Same Examples but using a traditional timber shutter system, using Super-Form TM as an adjustable brace.

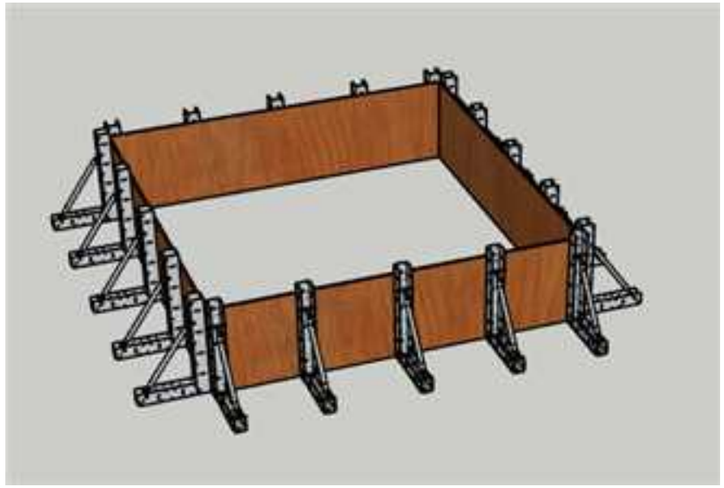


Examples of Super-Form brackets used with traditional timber shutters 2.44m / 8' long, brackets are at 1220mm / 4' centres.

Shown are a beam with no tie bars over, because Super-Form brackets are adjustable after concrete is poured, there is no necessity for tie bars, however tie bars do allow a faster pour rate. Also shown is a beam with tie bars and a beam with handrails.

Examples of pile caps or bases

Super-Form TM copes with any type of base, irregular, radius & much more.



Example of Super-Form brackets used with a plywood face at 488mm / 19'' centres, tie bars can be used if required, see Dwg SFS0014.

For Symons Steel Ply examples see our specialist Steel Ply Drawing sets.

NOTES:

For fitting instructions on brackets, corners, tie bars, Steel Ply and handrails please see our other drawings,hand rails can still be used with tie bars fitted.

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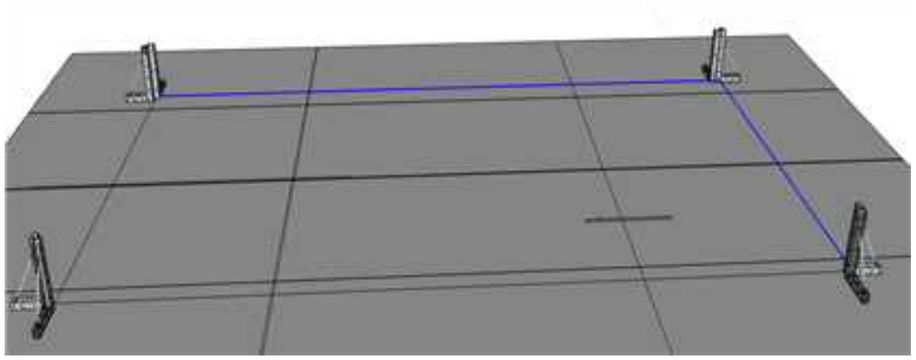
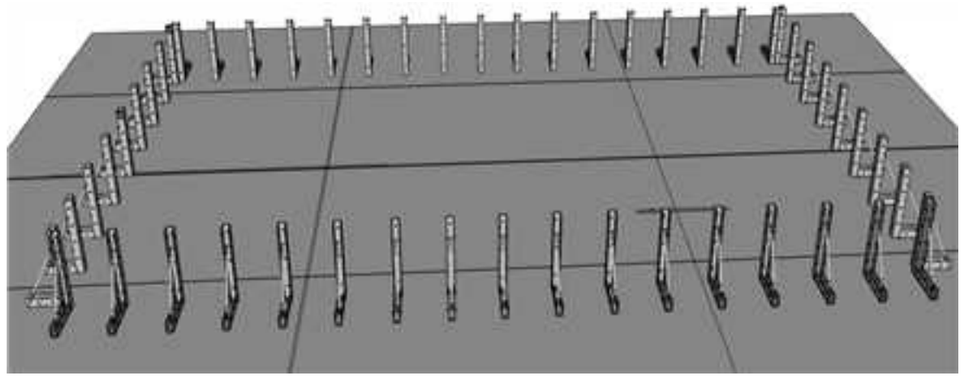
Mark out & Fix Corner Brackets



1. Mark out base / area of pour (Set line ply or panel system thickness back from the face of pour) For Steel Ply see relevant drawings.
2. Set corner brackets (For fixing corners see Dwg SFS0013).
3. Fix brackets down using wood screws, min of 4 but use all holes for larger pours, see DGS SFS 0001 for fixing instructions.
4. Plumb all brackets up with a spirit level.
5. String line at top of bracket, this will allow you to fit a bracket and plumb it, so that the pour line is perfectly straight and level.
6. No External Handrails are shown for clarity, it is recommended to always have safety handrails to open edges and Super-Form can also be used for that purpose.

String Line & fill in rest of brackets

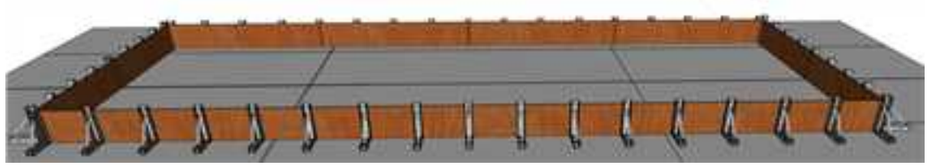


1. Fix all the remaining brackets at recommended centres, 488mm for fair faced and up to 610mm if line is not crucial. (488mm is typical for a good finish)
2. All brackets placed at bottom pour line and adjusted to top string line should now be perfectly aligned and plumbed.
3. Next step is to attach plywood / handrails and pour.

NOTE: Post pour you can attach a string line and re-line to make sure of the perfect straight finish and this is good practice to do.

Super-Form can be used on any Falsework system and with any handrail system.

Add plywood & pour (External handrails ommited for clarity)



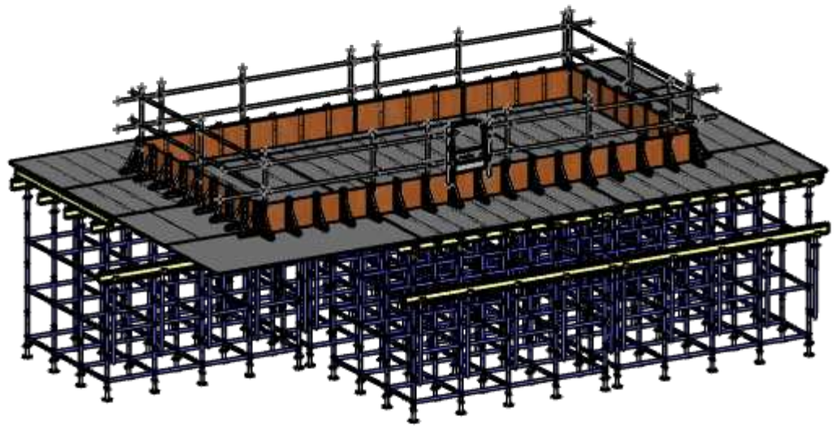
Fix on plywood to the face by screwing on with 4 wood screws, 2 top and 2 bottom, screw from behind face of bracket.

Youre now ready to pour, handrail is optional on higher pours.

Plywood face can be set at up to 100mm above a bracket, ideal for using beam screeds over the top of a pour.

Brackets can also be used in same way with Timber shutters or Steel Ply.

Complete with handrails & gate (Works with any plywood faced falsework)



Handrails can be 4 x 2, Combisafe or any other prorietary handrail system.

40mm standard scaffold tube and fitting shown above with gate.

For details on handrail fitting see Dwg SFS0015.

Tie bars are optional but not generally required, the system is strong enough not to need tie bars and is adjustable post pour.

Drawing SFS0008 REV A
Description: Super Form Using Brackets for Slab Edge on Decking & Falsework

For a full list of available drawings please see DRAWING REGISTER SFS1000

NOTES:

See our other drawings for reference.

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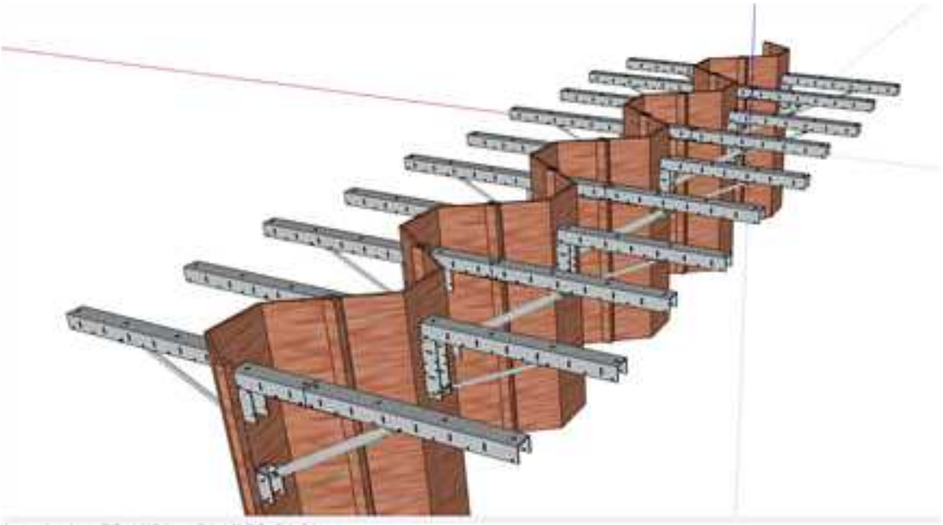
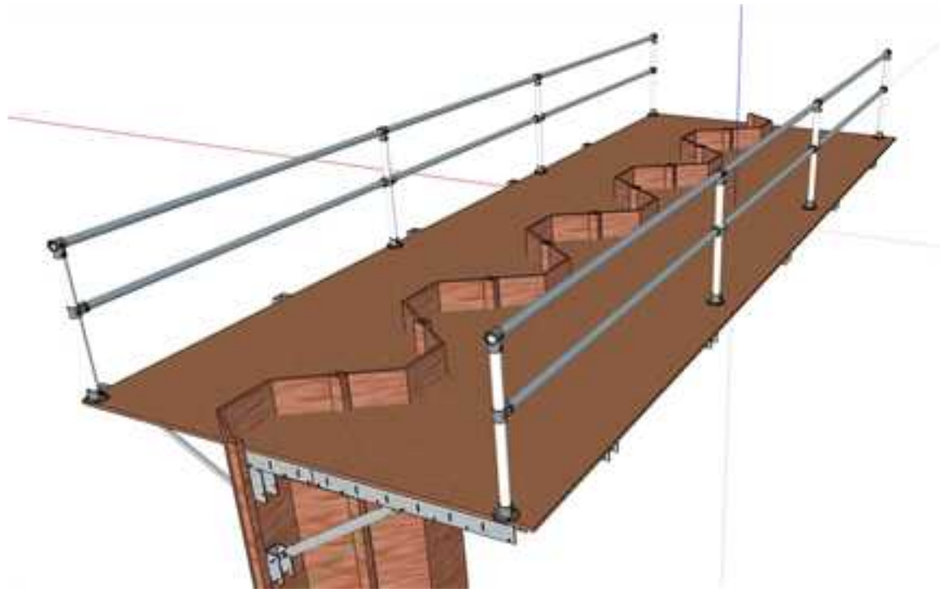
Fix soffit Brackets



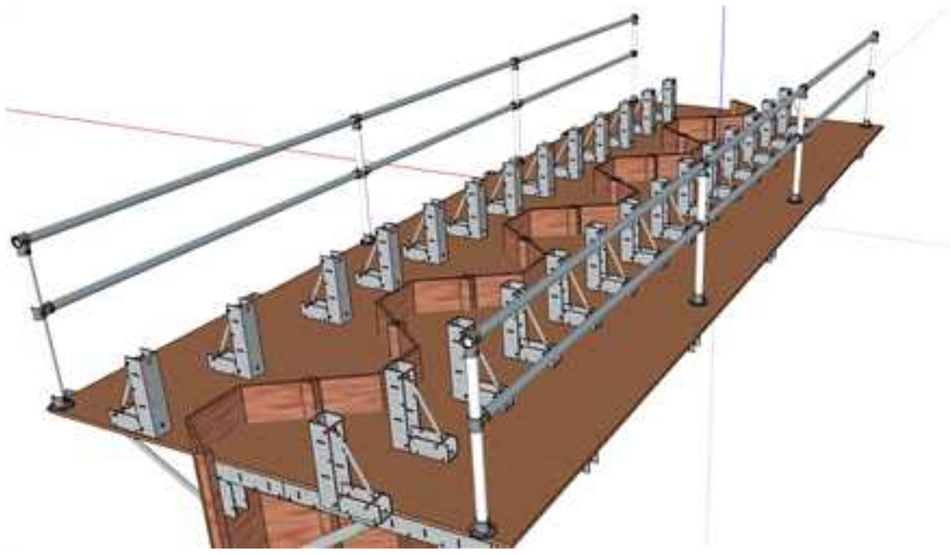
1. This is a User Guide' only, all sheet pile capping beams should have a full TW Design completed to suit the type of sheet pile, please call for details.
2. Brackets are fixed in 3 ways:
A: As above on a double sided beam, you can use a standard bolt through pile (drill hole) which will allow you to bolt the brackets each side together with a standard M16 bolt. (Holes can be plugged afterwards)
B: You can weld a small threaded 16mm stud to pile and bolt to that, it can be knocked off after use and a hole is not required in the sheet pile.
C: On single sided you can use a 'Blind Bolt' this is a re-usable bolt fixed from one side. See Dwg SFS0023 Using Blind Bolts.

Fix Top Plywood & Handrails



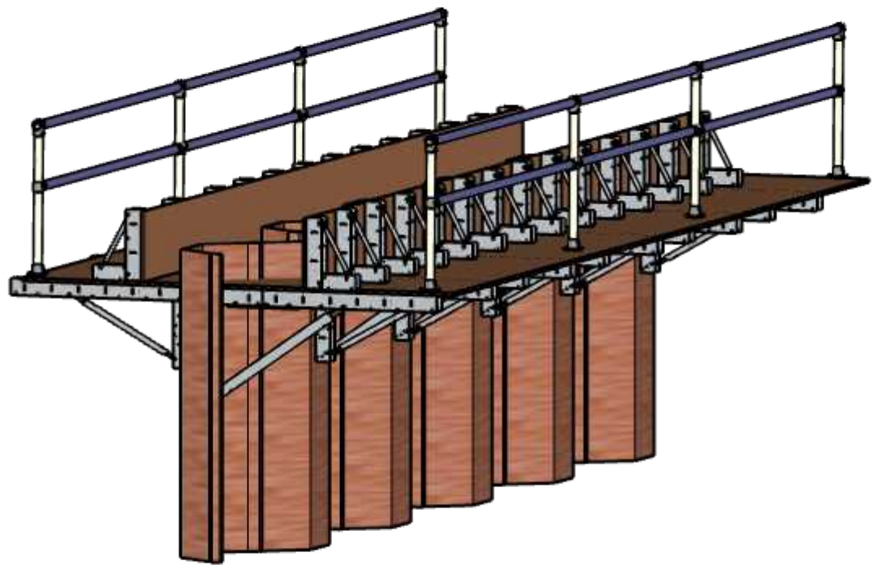
1. Scribe & cut plywood to fit into pile shape, make sure plywood joints finish on centre of a bracket below, ply is screwed from underneath, though you can prefix a timber to the face of the bracket and screw down onto that to avoid working under the brackets.(Recommended method) see Dwg SFS0022.
2. Fit safety handrails, Kee Klamp shown but combisafe, Scaffold or other systems can be used. See Dwg SFS0015.

Fix top brackets



1. Fix top brackets ply thickness back from pour line, fix each end bracket and string a line between.
2. Fill in rest of brackets at recommended centres (488mm standard)

Completed View (Stop Ends ommited for clarity)



1. Fix plywood to top brackets.
2. Fix Stop ends and Pour. See Deg SFS0018
NOTE: This method can be used so that system is used as soffit, for exanple to thicken walls etc, so it is not resticted to sheet pile beams. See Dwg SFS0011

Drawing SFS0009 REV A
Description: Super-Form Using Brackets for Double Sided Capping Beams

For a full list of available drawings please see DRAWING REGISTER SFS1000

NOTES:

See other drawings for Stop Ends, Fixing Handrails etc and for capping beams always ask for a bespoke TW drawing.

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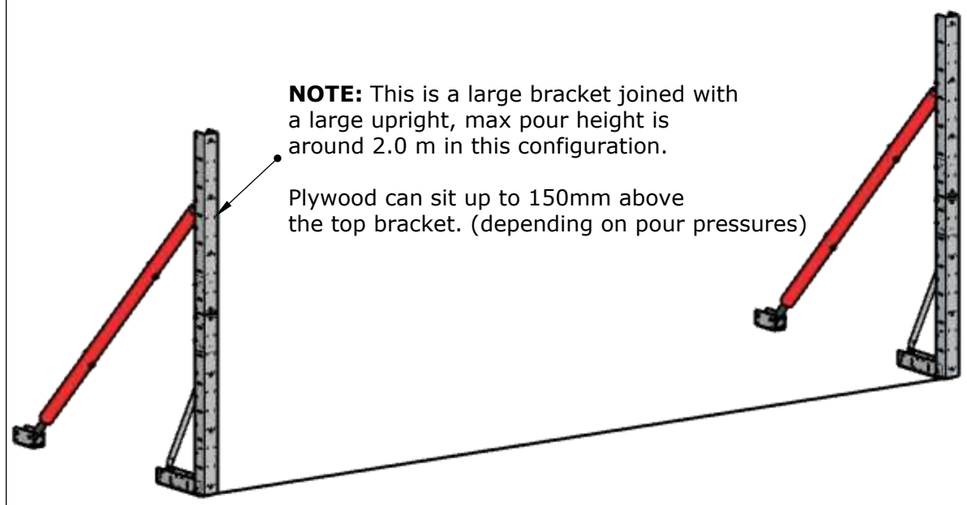
Fix first and last brackets



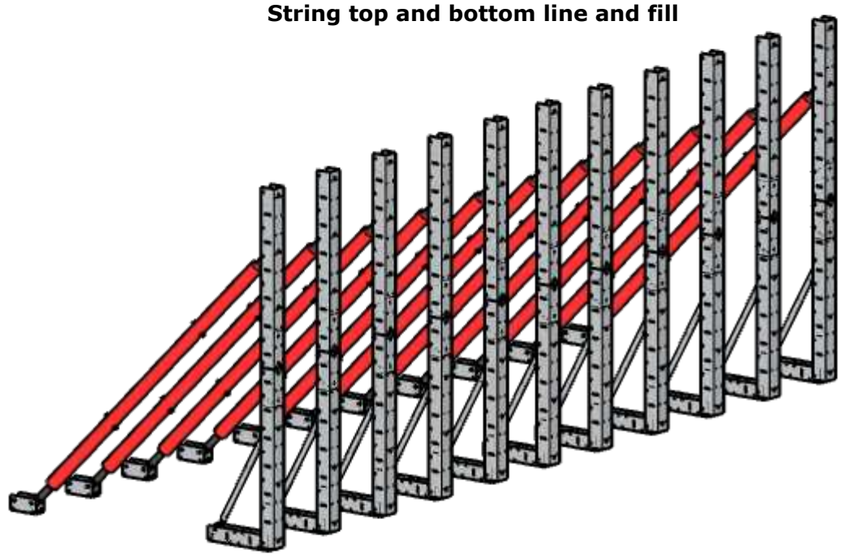
1. Fix first & last bracket 18mm (Ply Thickness) back from the Pour line, plumb up level. (See our other drawings for fixing down of brackets), for corners see Dwg SFS0013

2. Go far enough past pour to allow fitting of Stop end, fix the last bracket at correct spacing for plywood and pour pressures. (See Load Tables)

3. **Always make sure plywood joints are in centre of bracket!**

4. See Load tables for recommended centres between brackets.

String top and bottom line and fill



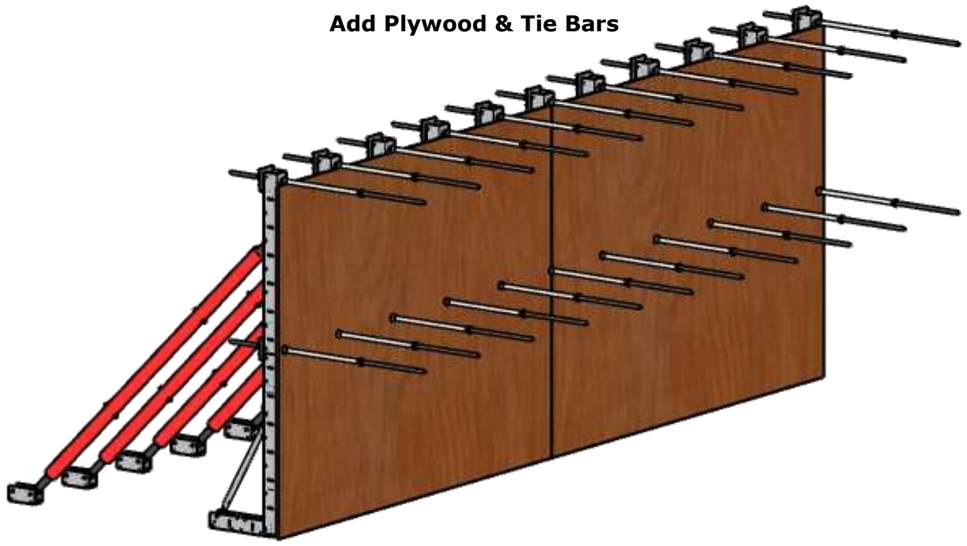
1. Fix the rest of the brackets at recommended centres.

2. A string line at the bottom and top will allow you to fit all brackets in line at the correct centre spacings.

3. Plumb them as you go, meaning the wall is ready to pour.

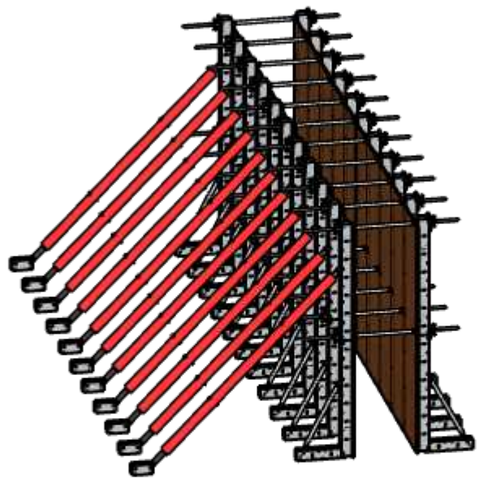
4. Youre now ready to fix plywood, this is screwed from behind bracket and so leaves a flawless finish to the face of the plywood.

Add Plywood & Tie Bars



1. Fix plywood from behind, TOP TIP, tack on plywood for other face and drill tie holes then remove, ready to fit on the opposite side with tie holes done.
2. Fit Tie bars and sleeves, pull bars back and sleeves will hold in place.
3. Fix rebar if not done already, repeat bracket fixing on opposite side, slide in and fit plywood and then push home tie bars.
4. Fit stop ends and pour.

Completed (Stop Ends ommitted for clarity)



NOTE: See our additional drawings for Radius Walls, Stop Ends, Handrails, Access etc

Drawing SFS0010 REV A
Description: Super-Form Using Brackets for Wall Pours

For a full list of available drawings please see DRAWING REGISTER SFS1000

NOTES:

For fixing down brackets, joining brackets, using additional push pull props, tie bars, handrails, access etc, please see our other drawings

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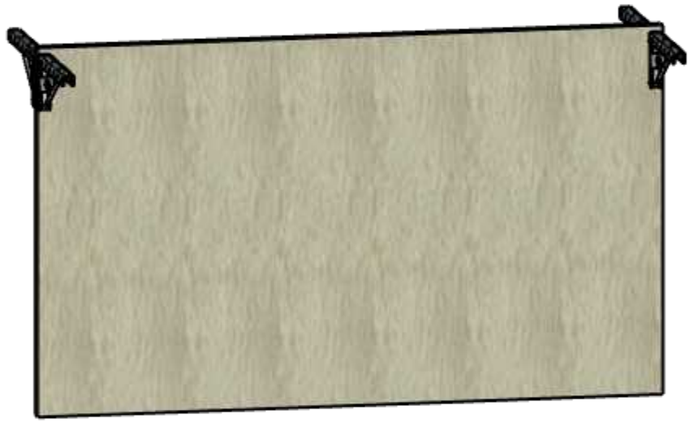
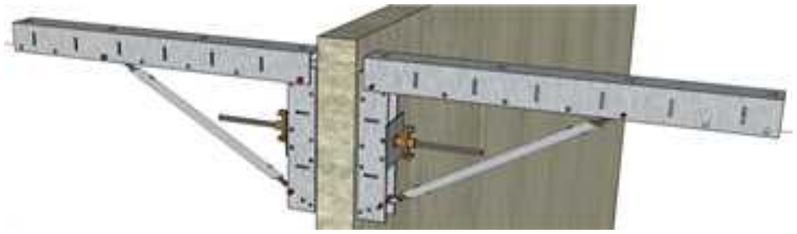
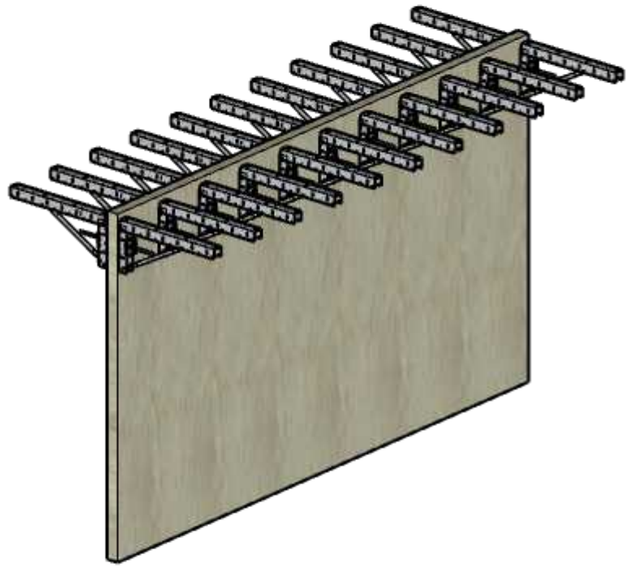
Fix each end bracket



1. Fix brackets at each end (at correct centres, 488mm standard), this example is double sided and so a tie bar has been used to fix opposite brackets together, for single sided, concrete bolts or blind bolts could also be used.
2. Plumb brackets level and string a line between each end.
3. Shown below a close up view of the tie bar fixing between the brackets.

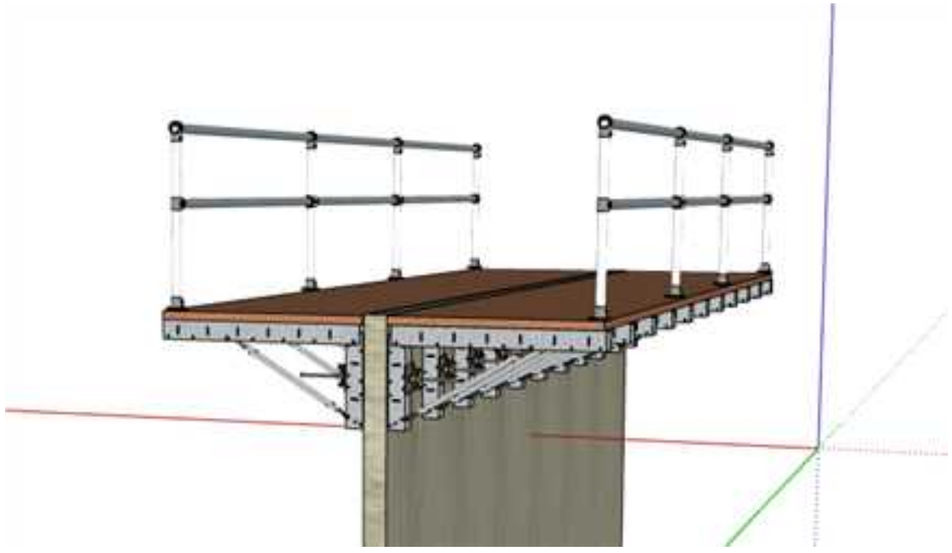


Fix all Soffit brackets



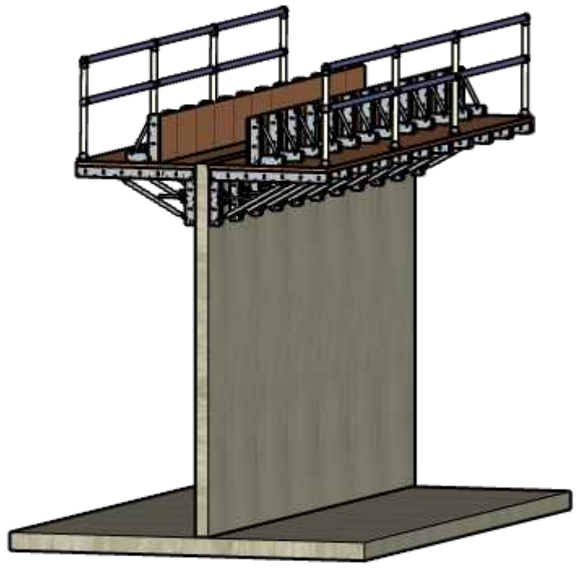
1. Fix all brackets betwween and adjust to the string line, they will all be level and ready for plywood to be fixed to top.
2. Plywood can be fixed from underneath, however you can add a timber to the face of the bracket and then plywood can be screwed down onto the timber, so there are multiple fixing options available, see Dwg SFS0022 fro attaching timber to brackets.
3. Large brackets if used can have independent bases and larger props can be extended, allowing platforms up to 2000mm wide each side.

Fix plywood and Handrails



Add plywood,handrails and then the soffit / support is complete.
Kee Klamp handrails shown, Tube & Fitting or Combisafe could also be used.

Completed with formwork on top of soffit



Ideal for shaped corbels to walls or as a platform for wall or beam widening or even as an access platorm. Stop ends and end handrails ommitted for clarity.

Drawing SFS0011 REV A
Description: Super-Form Using Brackets as a Soffitt System

For a full list of available drawings please see DRAWING REGISTER SFS1000

NOTES:

For more detail on use of tie bars, handrails, blind & concrete bolts as well as fixing of timbers to brackets etc please see our other drawings.

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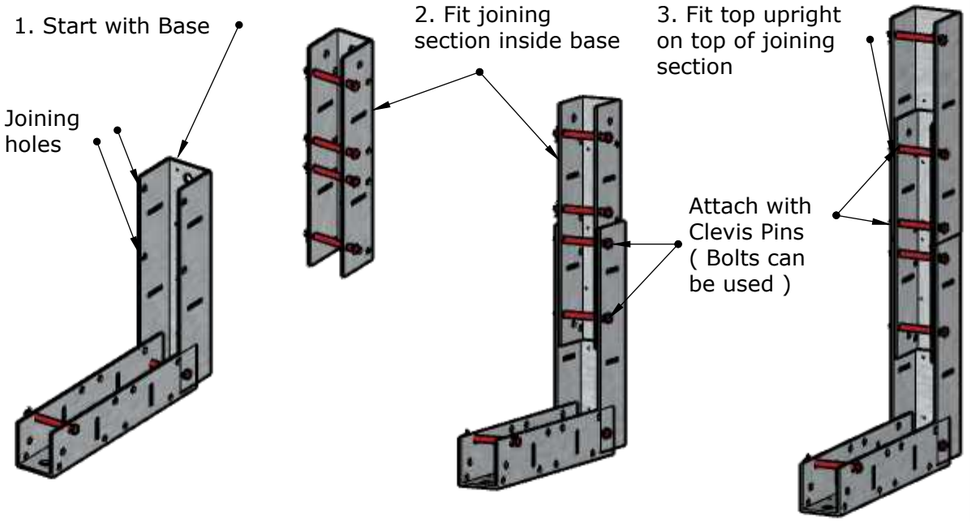
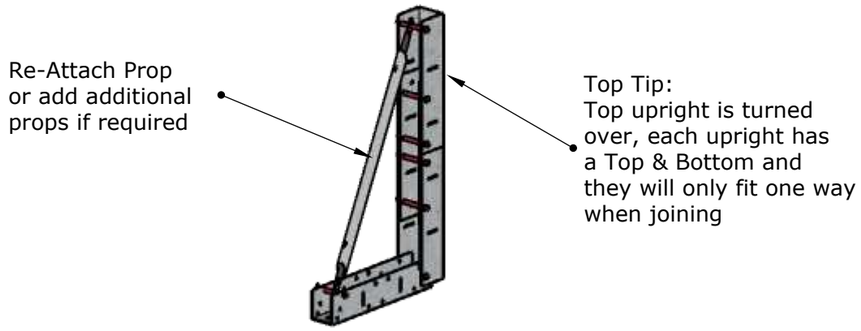
Extending the height



1. Start with a base bracket (Small Shown).
2. Take a Joining Section (This is also a Large Base and has dual use)
3. Fit Joining Section into Base with 2 x Clevis Pins, add extension piece (Small Upright shown) and add 2 additional Clevis Pins, (Joining sections fit inside Uprights).
4. There are 3 Upright sizes, Small / Medium & Large offering a large number of variations and Heights in table shown opposite.

Small Bracket & Small Upright



Sizes available are:					
Description	mm		Inches		Feet
Small Bracket	400		15.8		1.31
Medium Bracket	700		27.6		2.30
Small / Small Joined	775		30.5		2.54
Large Bracket	1000		39.4		3.28
Medium / Small Joined	1075		42.4		3.53
Small / Medium Joined	1087		42.8		3.57
Large / Small Joined	1375		54.2		4.51
Medium / Medium Joined	1387		54.6		4.55
Medium / Large Joined	1675		66.0		5.50
Large / Medium Joined	1687		66.5		5.54
Large / Large Joined	1975		77.8		6.48

NOTE: Plywood can be fitted up to 150mm above bracket to extend pour height

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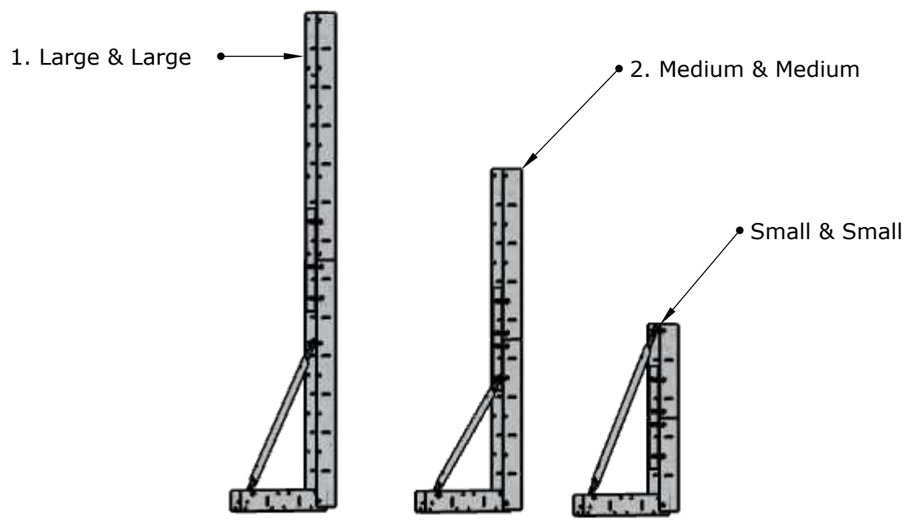
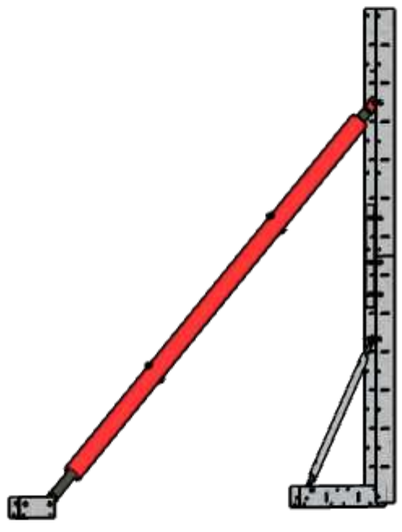
Large / Medium & Small Extended (Additional Props ommited for clarity)



1. Shown above is a Large Bracket with Large Upright Joined.
2. Shown above is a Medium Bracket with Medium Upright Joined.
3. Shown above is a Small Bracket with Small Upright Joined.

Large Extended with additional Prop added



1. Some height extensions will require an additional prop to be added as above, which can have an independent base.
2. For Single Sided you can add multiple additional Props.
3. For more details on adding additional props see SFS0027 Attaching / Detaching Push Pull Props.

Drawing SFS0012 REV A
Description: Super-Form Joining Brackets to increase height.

For a full list of available drawings please see DRAWING REGISTER SFS1000

NOTES:

See our other drawings for use of detached props, fixing, corners, ties bars etc.

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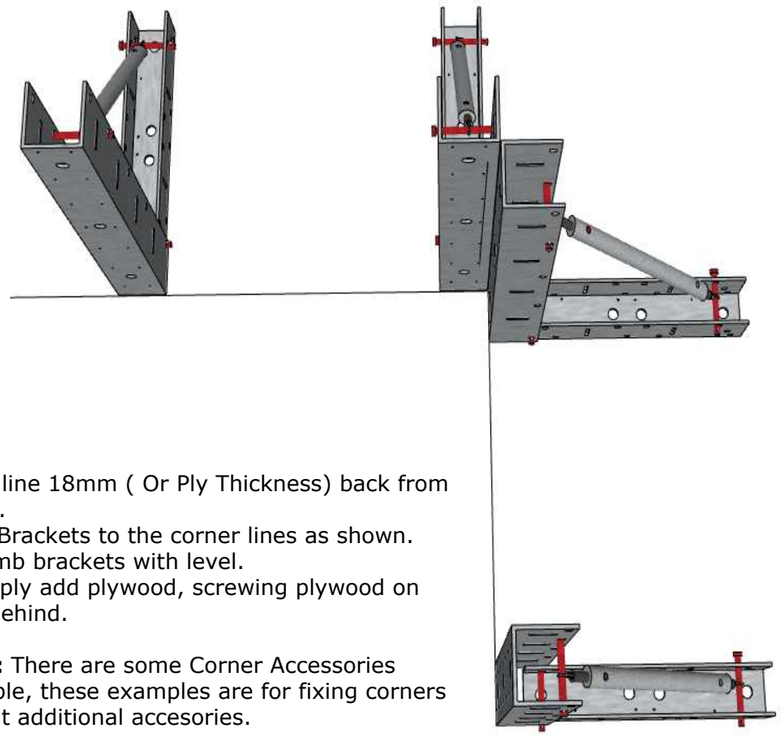
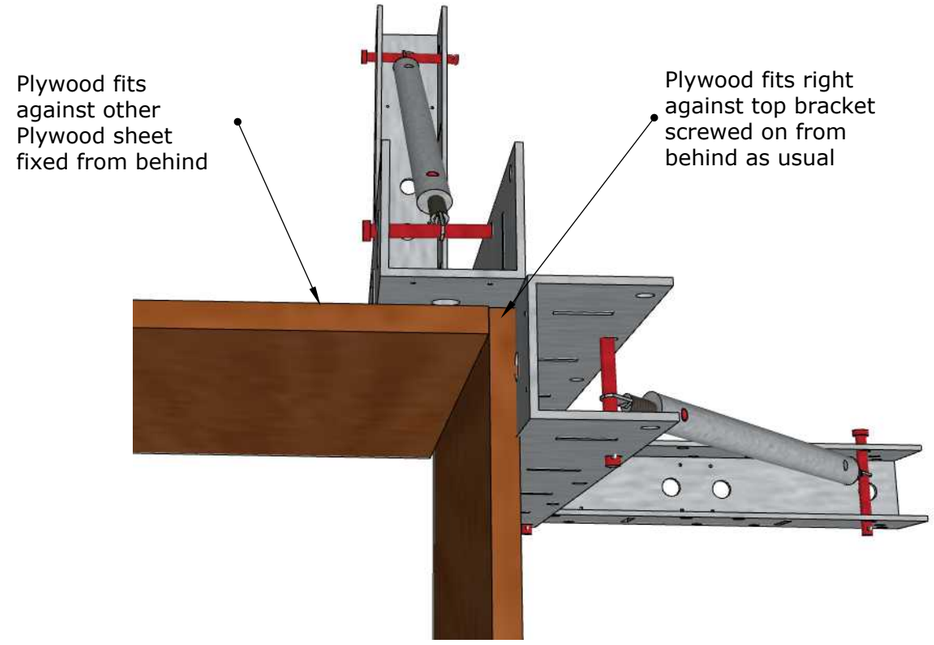
External Corner



1. Set line 18mm (Or Ply Thickness) back from corner.
2. Fix Brackets to the corner lines as shown.
3. Plumb brackets with level.
4. Simply add plywood, screwing plywood on from behind.

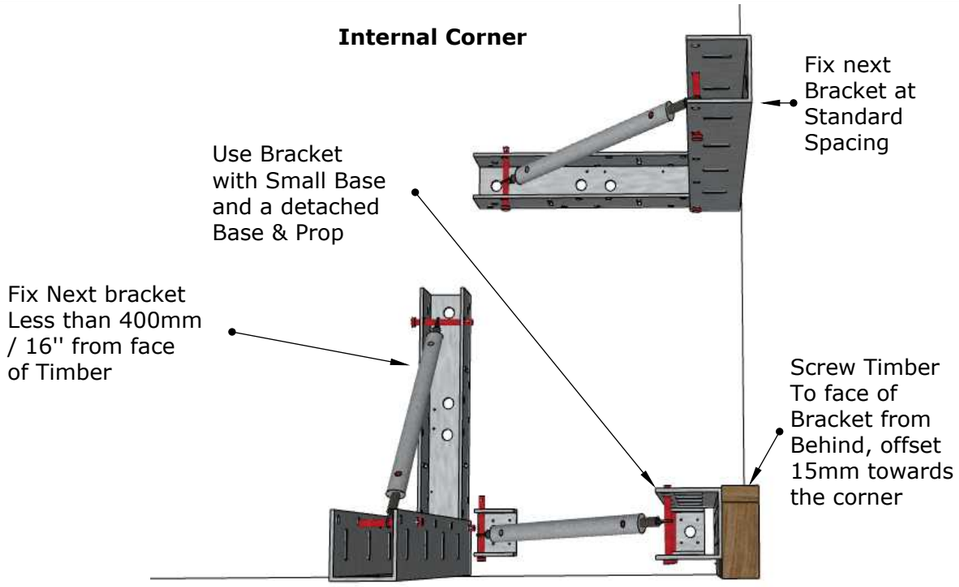
NOTE: There are some Corner Accessories available, these examples are for fixing corners without additional accesories.

External Corner Fit Plywood To Complete



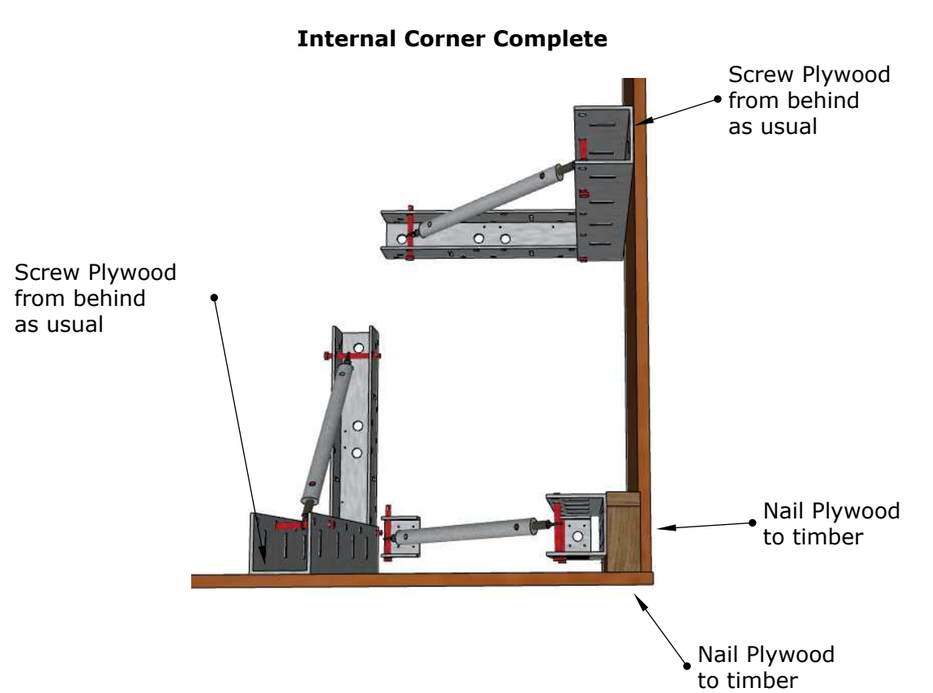
NOTE: There are some Corner Accessories available, though they are not required for external corners, for Timber Shutters and Steel Ply see relevant drawings.

Internal Corner



1. Mark corner 18mm (Ply Thickness) from pour line.
2. Use a bracket with a Small Base and Small Base and Prop as shown in the corner, fixing a 100 x 50mm (2 x 4) timber to the face as show (15mm offset towards corner. (Edge of timber sits on the line)
3. Fix next brackets at recommended centres, plywood can be nailed to timber.

Internal Corner Complete



Drawing SFS0013 REV A
Description: Corner Fixing with Super-Form Brackets.

For a full list of available drawings please see DRAWING REGISTER SFS1000

NOTES:

See our other drawings for Bracket Fitting, Corner Accessories, tie bars & more.
Steel Ply has Corners that are compatible with our Brackets.

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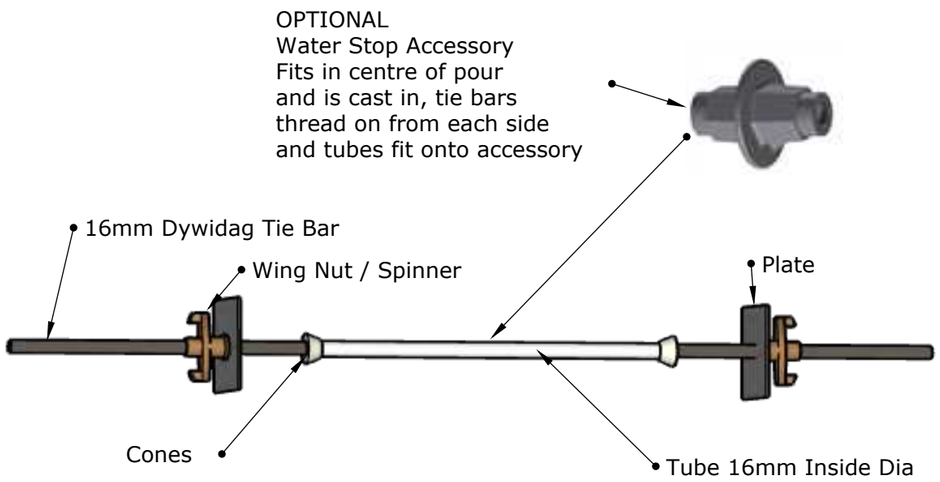
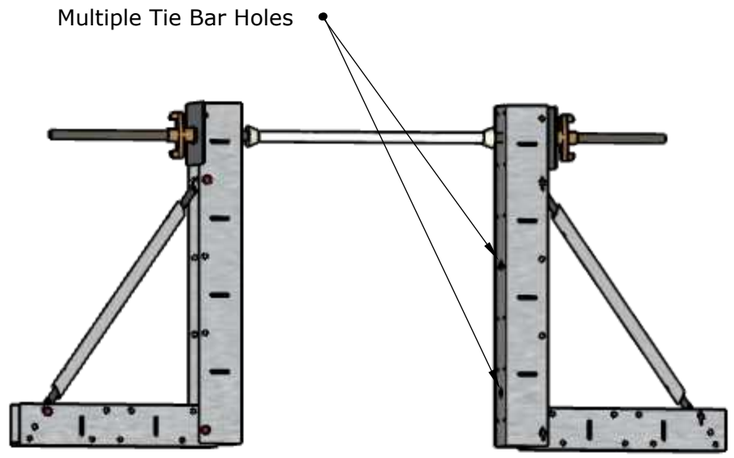
Tie Bar Set



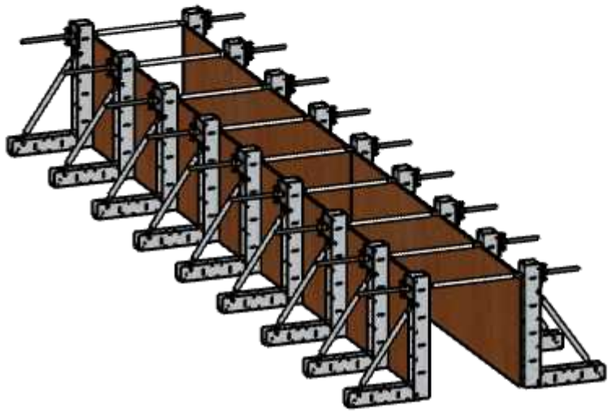
1. Tie bar set up shown above, 16mm Dywydag bar is re-usable and genereally will last 10 to 15 years, as will Spinners & Plates.
2. Tubes and Cones are a consumable item, these are cut to the pour width prior to fitting, the tube stays inside pour, the cones are removed after pouring and a Flupp plug is used to make the hole water tight and a non shrink grout is then used to fill the cone shaped hole left after removing the cone.
3. Specialist ties are available for watertight structures, a water stop can be cast into the centre and tie bars threaded onto that from each side which are removed after pouring. For advice please call.
4. Super-Form Brackets have several tie Bar holes in Uprights & bases and tie bars can also be used to secure other Panel systems to our Brackets

Tie Bar Fitted (Ply Ommitted for clarity)



1. Super-Form brackets are 85mm wide, so a 100mm Plate fits neatly over our bracket. Tie-Bars have many uses and configurations, with many accessories available, there are also Plates with Spinners or nuts attached.
2. Fix all Brackets, fix plywood and drill holes for Tie Bar. **TOP TIP** for 2 sided pours you can drill holes through both sheets of ply at the same time, just tack the opposite sheet onto the first sheet, then drill tie hole (18mm) and then remove second sheet ready to fit on the other side of the pour, ties holes will match perfectly.

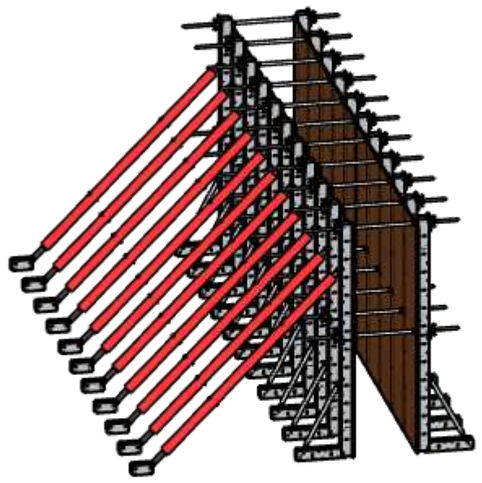
Beam with Tie Bars Over the Top of Pour



NOTE: Tie bars are not needed for beam pours when using Super-Form brackets on their own, our brackets can be adjusted post pour for re-aligning pours (Good Pratice).

Tie Bars are not genereally required with Super-Form up to 1.2m high and are generally used on Wall Pours where pour pressure are higher due to ability to fill the forms faster.

Wall Pour with Tie Bars



NOTE: Tie bars on wall pours over 1.2m are recommended, example is a 1.8m wall pour, one tie bar through middle and one Over Top of Pour.
Super-Form DOES NOT require a pre poured Kicker OR a bottom tie bar!
Tie Bars do how ever allow for greater pour rates, so would help on larger height pours over 1m where the pour rate needed to be increased.

Drawing SFS0014 REV A
Description: Using Tie Bars with Super-Form.

For a full list of available drawings please see DRAWING REGISTER SFS1000

NOTES:

See our other drawings for fixing of brackets, handrails etc.

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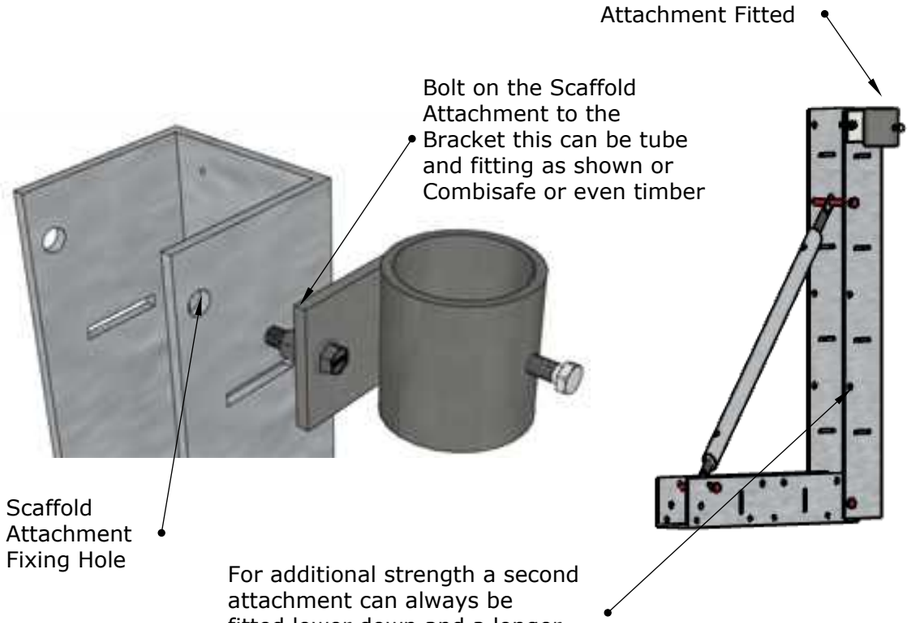
Fit Scaffold attachment



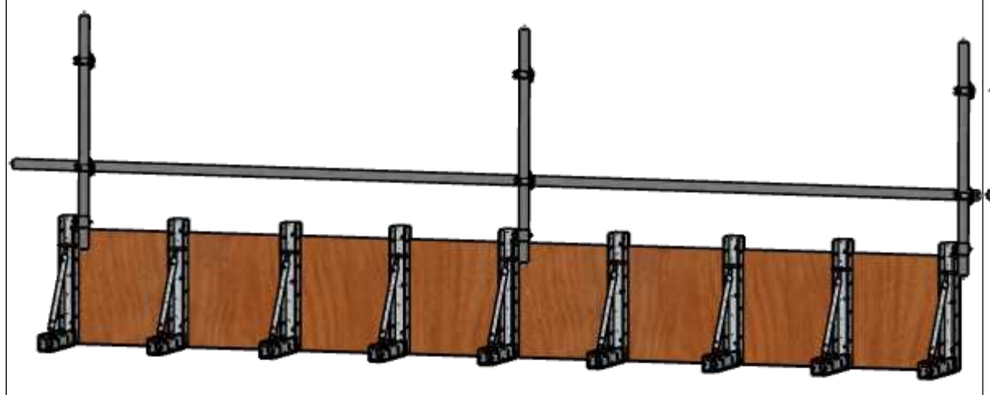
Add Standards (Verticals)

1. Fix the scaffold attachment to the bracket as shown.
2. Insert Standard, this can be a tube OR other handrail system such as Combisafe.
3. Add all the standards recommended by manufacturer, if using standard scaffold tube and fittings (as shown) use a standard every 2.4m approx.
4. Scaffold tubes can be Clamped into the scaffold attachment by tightening the bolt on the side of the attachment.

NOTES: Make sure the bolt holding the scaffold attachment is secure and that the bolt holding the standard is also tight.

Only authorised or competent users should attach handrails, though it does NOT require a scaffolding qualification.

Add Handrails (Horizontals)

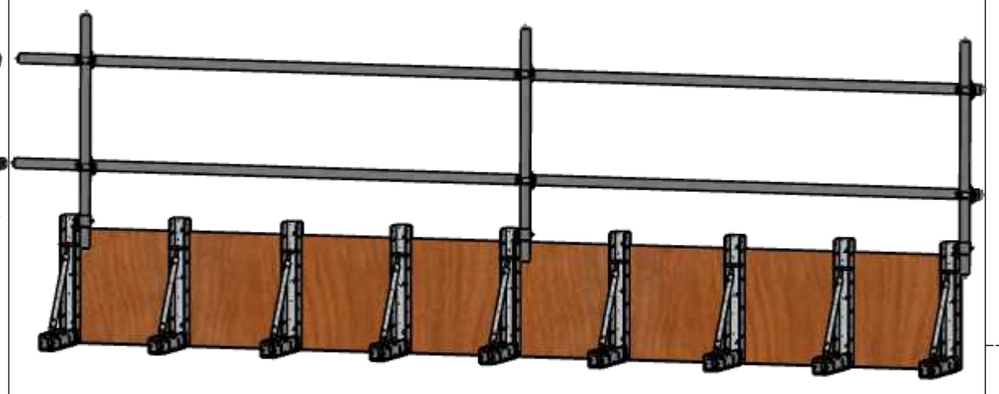


1. Add handrails (Horizontals) at the required heights, rule of thumb is top rail is 900mm above top of ply, bottom rail around 500mm lower.
2. If using tube and fittings make sure all couplers are fully tightened and checked weekly in line with your own Temporary Works Procedures.
3. Scaff tags are not a legal requirement as this is a handrail and not a scaffold.

Drawing SFS0015 REV A
Description: Attaching handrails to Super-Form.

For a full list of available drawings please see DRAWING REGISTER SFS1000

Handrail completed View



1. Add top handrail to finish.
2. You can also add netting or guards to the handrail or use a proprietary handrail system such as Combisafe or similar.
3. Bracket can accomodate many handrail systems, even timber which can be fixed to the bracket instead of a tube.(This is not generally allowed in the UK)
4. Always adhere to your own site or H & S regulations when fitting handrails.

NOTES:

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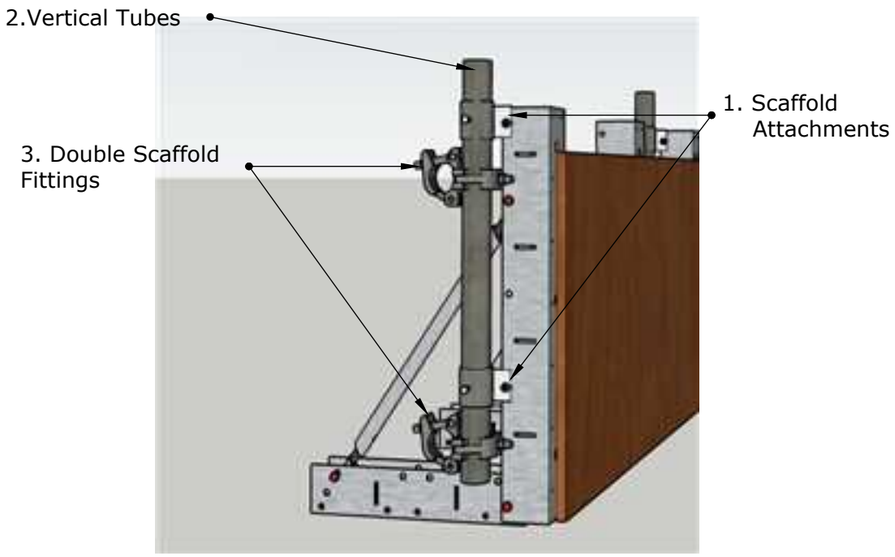
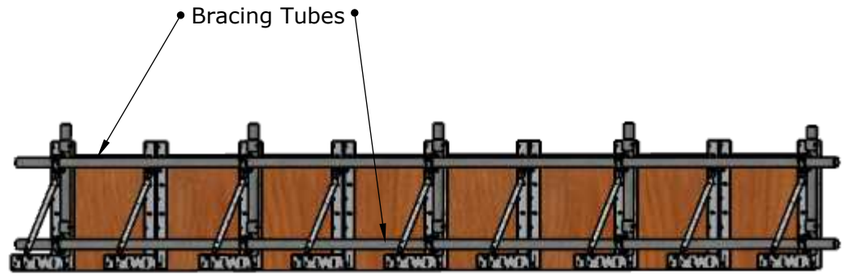
Fitting Vertical components



1. Fit 2 X Scaffold Attachments as shown.
2. Attach Vertical Tubes.
3. Attach Double Scaffold fittings as shown, these will take the Bracing Tubes, one as close to bottom as possible and one as close to top as possible. For larger heights an additional centre brace may also be required.
4. Repeat process on each bracket, max recommended spacing is 2 brackets between Verticals, we have shown them with just one between which will keep a better line when lifting.

Add Bracing Tubes Horizontally



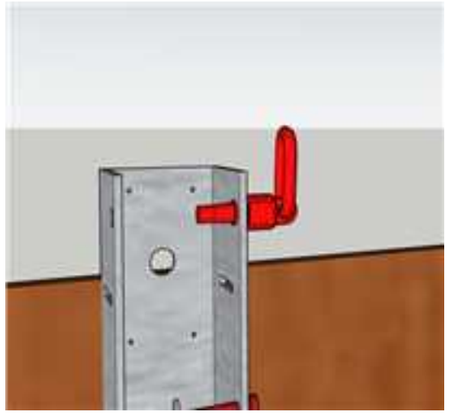
1. Fit 2 X Scaffold Bracing Tubes as shown above. (More for larger pour heights)

NOTE: there is no option for a handrail in the example above, if you also need a handrail, simply use a taller vertical tube, an example of a liftable Panel with Handrail is shown below. Fittings must be tightened in accordance with manufacturers instructions and be completed by a competent person.

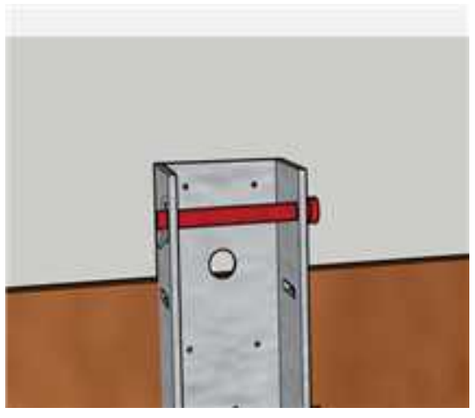
Add lifting attachments if required and you can now lift panels into place, pour, strip and move them to the next pour, we have shown a 4.8m example, this is the recommended maximum to lift at once.

Fit Lifting Accessories to the Brackets

Swivel Lifting Eye

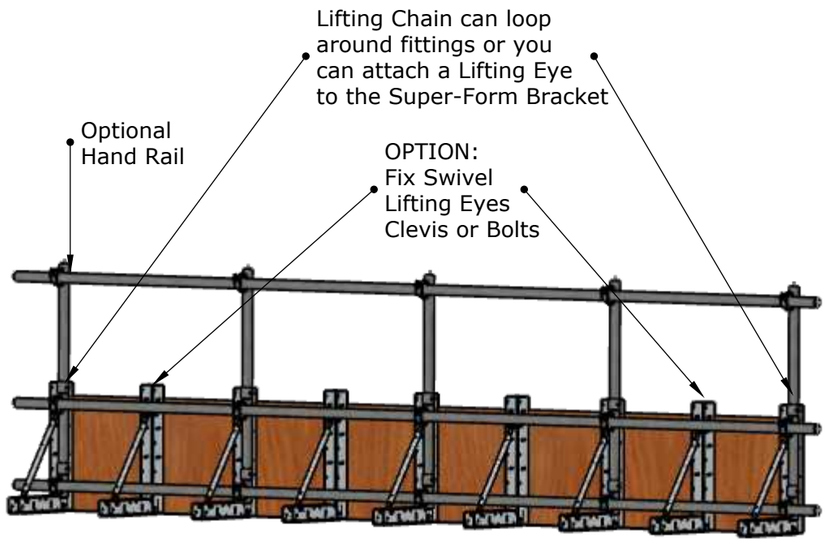


M16 Clevis Pin or M16 Nut & Bolt can also be used



NOTE: Make sure the lifting eye is rated for the weight of the lift, M16 bolts will fix directly to the Super-Form brackets, you could also use an M16 Clevis Pin BUT always make sure they have the lifting capacity for the load.

Panel completed, can now be lifted and re-used



NOTE: All lifting should be done by competent and trained personel, loads should be slung safely and a lift plan should be approved by your own Temporary Works Co-Ordinator, this guide is Not a Lift Plan.

Drawing SFS0016 REV A
Description: Lifting Super-Form in Panels or Gang Forming .

For a full list of available drawings please see DRAWING REGISTER SFS1000

NOTES:

See our other drawings for more details on Fixing Brackets, Handrails etc.

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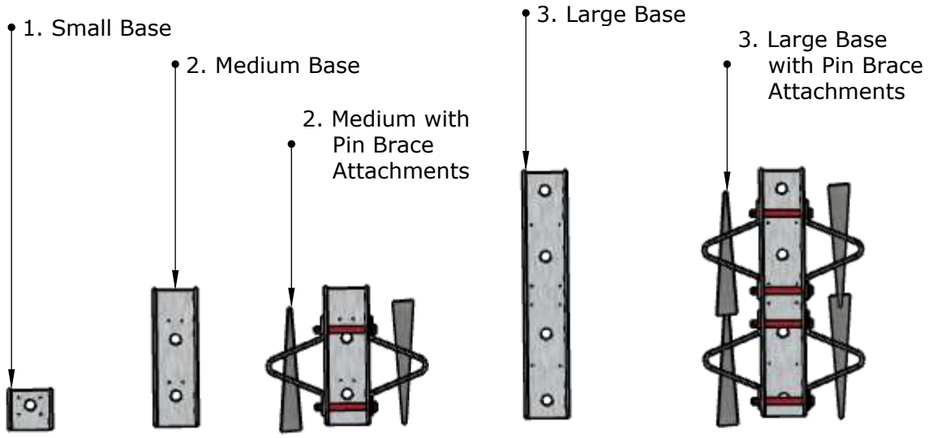
The 3 Sizes of Base / Feet

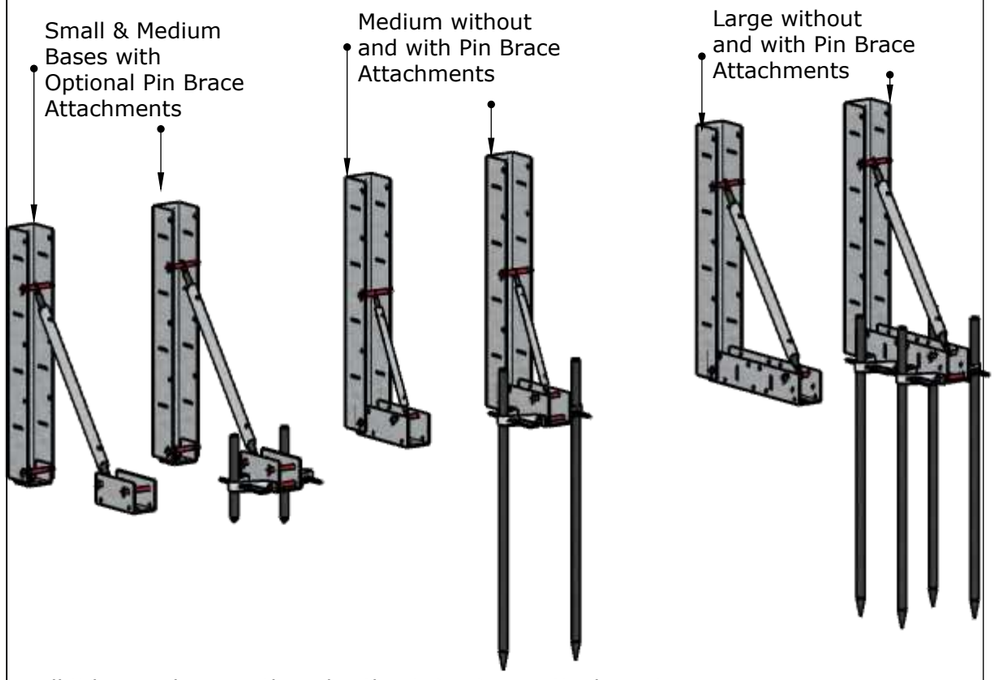


1. **SMALL**: Used with any of the 3 upright sizes as a base and also used as a detachable Prop base.

2. **MEDIUM**: Used with any of the 3 upright sizes as a base and also used as a detachable Prop base (Up to Two Props). This base can also optionally have 2 x Pin Brace attachments fitted as shown above for fixing into stone or ground.

3. **LARGE**: Used with any of the 3 upright sizes as a base and also used as a detachable Prop base (Up to Two Props). This base can also optionally have 2 or 4 x Pin Brace attachments fitted as shown above for fixing into stone or ground. This base is also used as the 'Joining Section' to join uprights together.

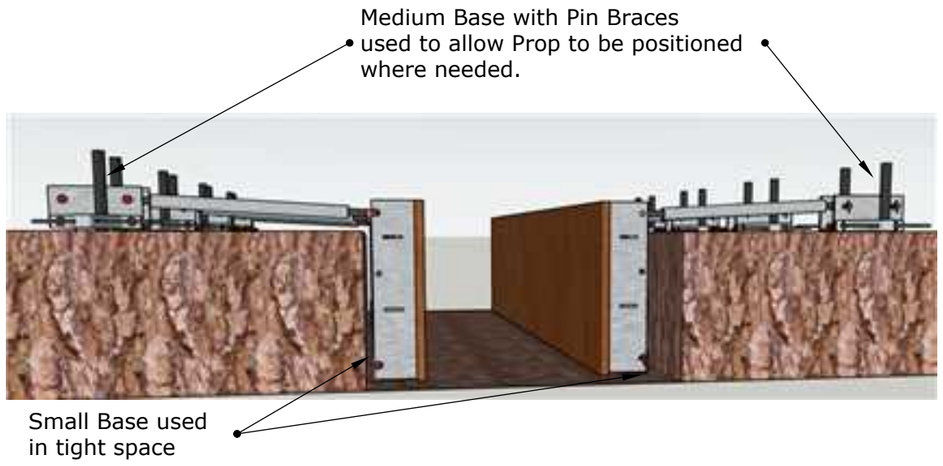
Examples of All 3 Bases in Use



All 3 bases shown with and without Pin Brace Attachments.

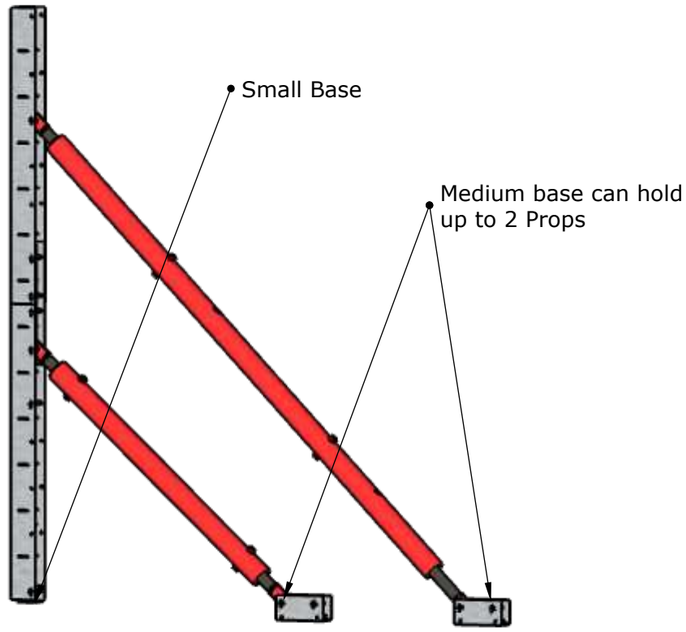
Small bases are used mainly on wall applications and in trenches or tight spaces

Example of Small bases used in a trench with Detached Medium Bases



Above is a good example of how bases can be used to allow fixing in tight spaces as well as being able to position Props where they are required.

Example of Bases used for detached additional Props



Above is a good example of how bases can be used to fit additional Props.

Drawing SFS0017 REV A
Description: Use of the Different Super-Form Bases, Feet.

For a full list of available drawings please see DRAWING REGISTER SFS1000

NOTES:

See our other drawings for fixing brackets, attaching Pin Brace Attachments, Props etc.

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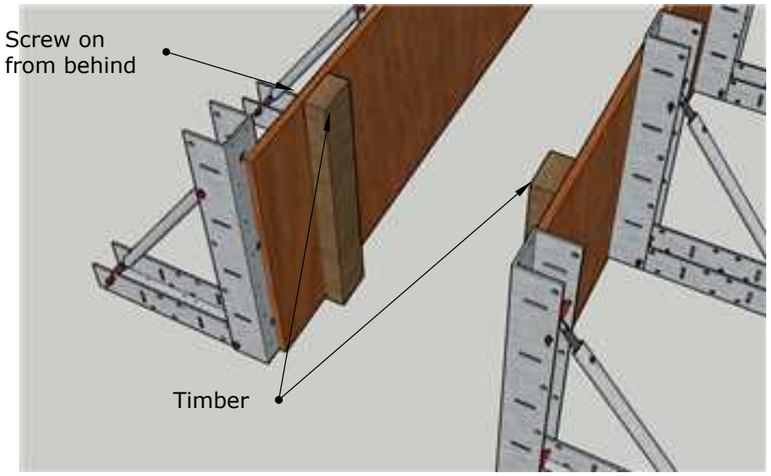
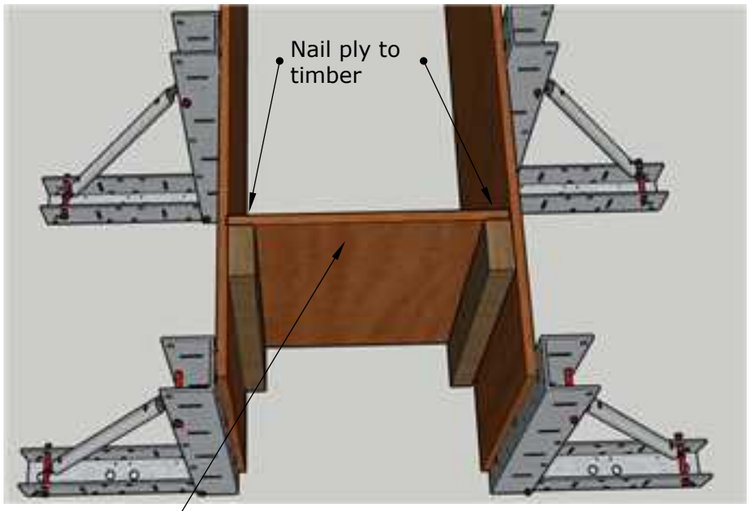
Fix Timber to Plywood



1. Cut 2 x Timbers 4 x 2 (100 x 50mm) to the pour height.
2. Fix Timber to each side of the stop end, set timber back the thickness of the plywood.
3. Screwing through ply into the timber is the best way, one screw every 200mm and a 5 x 50mm wood screw is ideal.
4. Cut a piece of plywood to the required size.

Fix Plywood



NOTE: This method works for up to 500mm between faces, over 500mm see below, it is advised to build a stop end with cross members for strength.
It is advisable to also use Ties Bars through the timbers for higher pour pressures. (This is good practice on all stop ends)

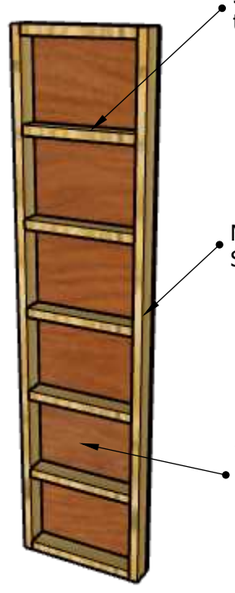
Larger pre-made stop end (ideal for Walls)

Stop Ends can also be pre-made as shown here.

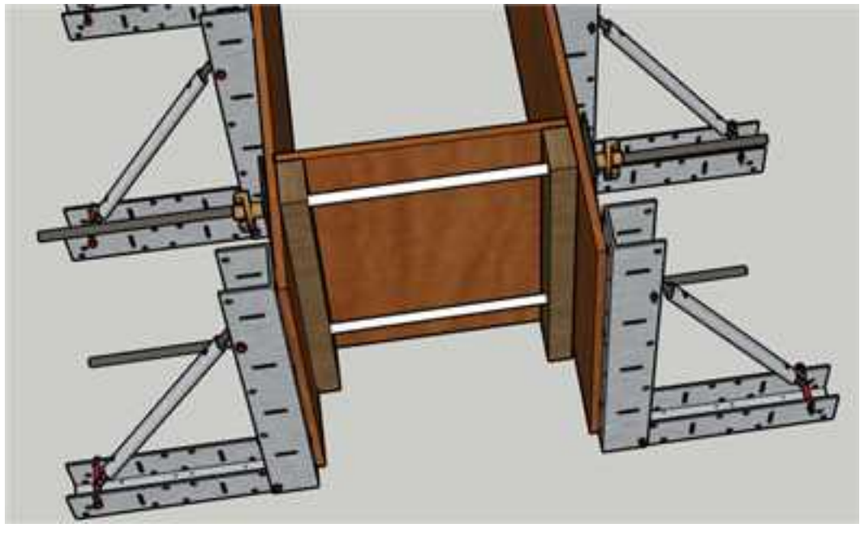
Spa's are generally at 400mm centres, but for high pressure pours this could be reduced.

It is recommended to make premade stop ends from 4 x 2 (100mm x 50mm) structural grade timber and use 18mm plywood to face.

It is also good practice to use Tie Bars through stop ends, especially on walls or pours above 1.2m in height, below that height they are optional.



Optional Ties Bars through Stop End



NOTE: This method is recommended for Wall Pours but is also good practice on all stop ends, it works perfectly if the stop end falls where there is a bracket and a bracket can always be fixed either side of a stop end for extra strength.

Drawing SFS0018 REV A
Description: Fitting Stop Ends.

For a full list of available drawings please see DRAWING REGISTER SFS1000

NOTES:

See our other drawings for details on fixing Brackets, Tie Bars etc.

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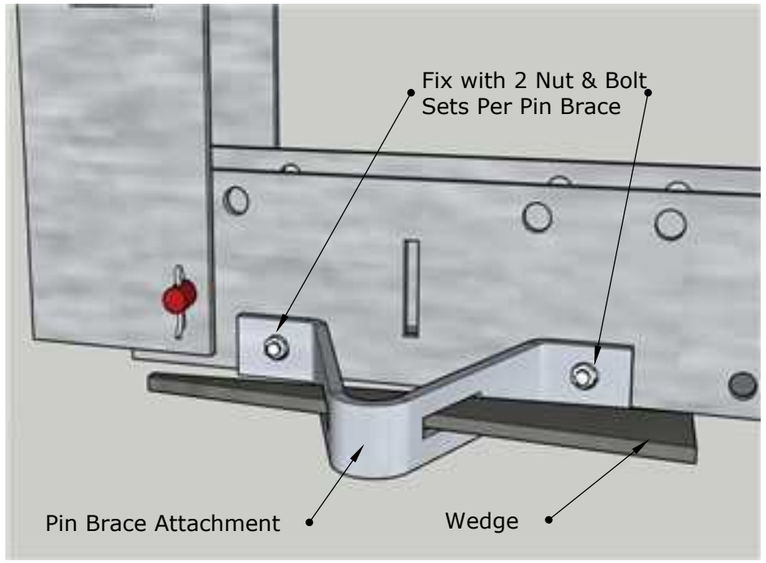
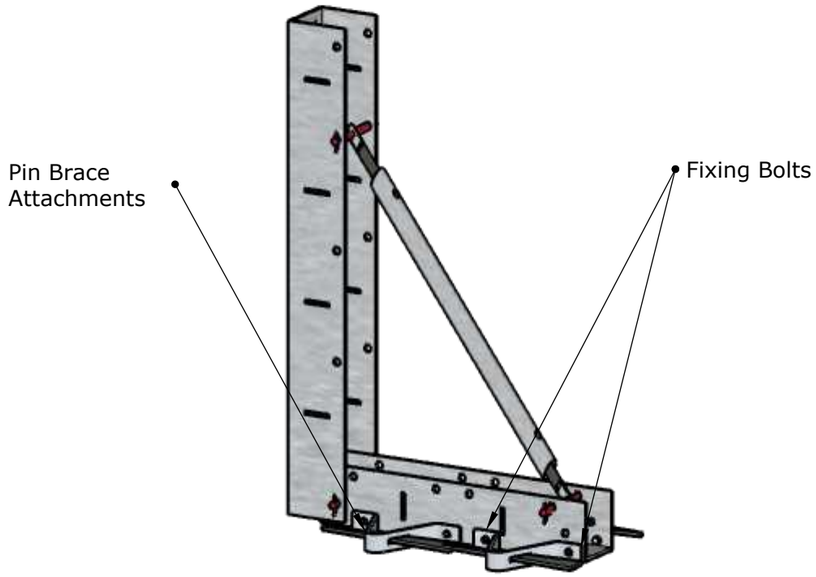
Attaching a Pin Brace Attachment



1. Take a Pin Brace Attachment and simply fix to the Super-Form Bracket using 2 Nut & Bolt Sets as shown above.
2. Repeat on the opposite side.
3. Medium Bases Take 2 Attachments and Large bases up to 4.

Fit All Pin Brace Attachments



1. Fix second attachment if required.
2. Repeat on opposite side.
3. Make sure nuts are tightened sufficiently.
4. To remove simply reverse the process.

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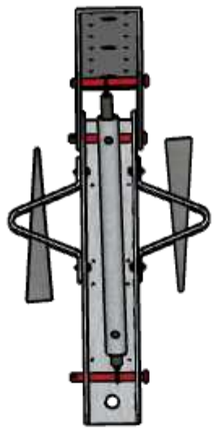
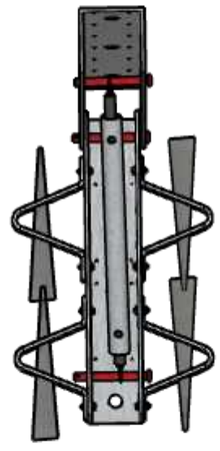
Bracket with 2 Pin Braces attached (Medium Bracket on Large Base)



NOTE: On small and medium Uprights / Brackets, the front 2 Pin Braces are usually sufficient.

On Large Uprights and Brackets or softer ground conditions, then all 4 Pin Braces are recommended to be used.

Bracket With 4 Pin Brace Attachments



NOTE: Road pins should only be used in ground where you know there is no danger of stricking services and you should always use a Cat & Genny to check ground before driving in road pins.

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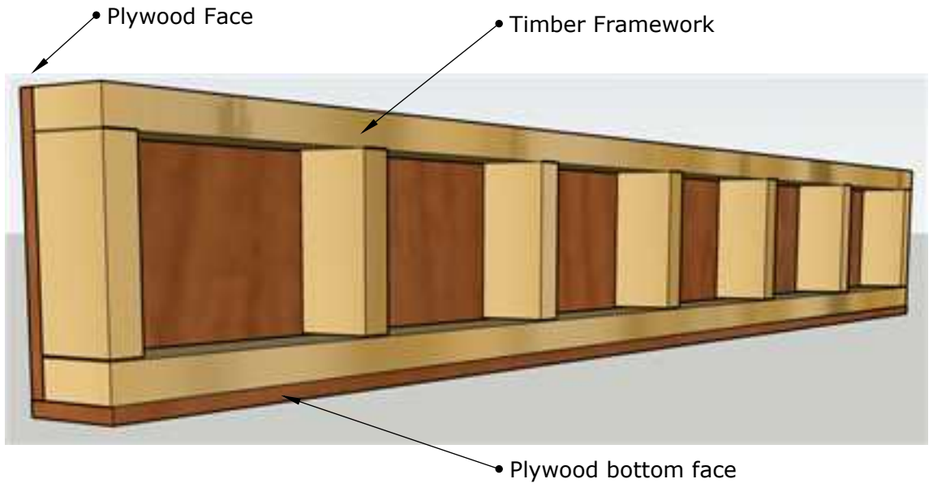
Drawing SFS0019 REV A
Description: Super-Form Attaching or Detaching Pin Brace Attachments .

For a full list of available drawings please see DRAWING REGISTER SFS1000

NOTES:

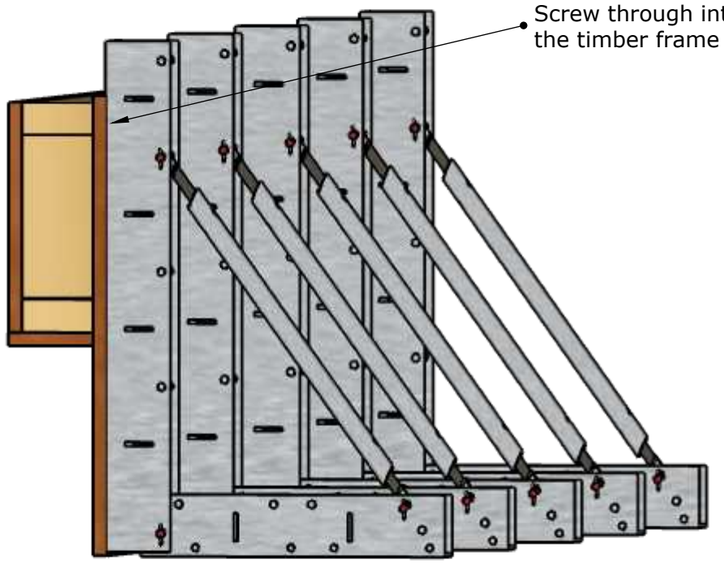
See our other drawings for fitting Brackets, Tie bars and Bracket Uses etc.

Pre-make Box outs



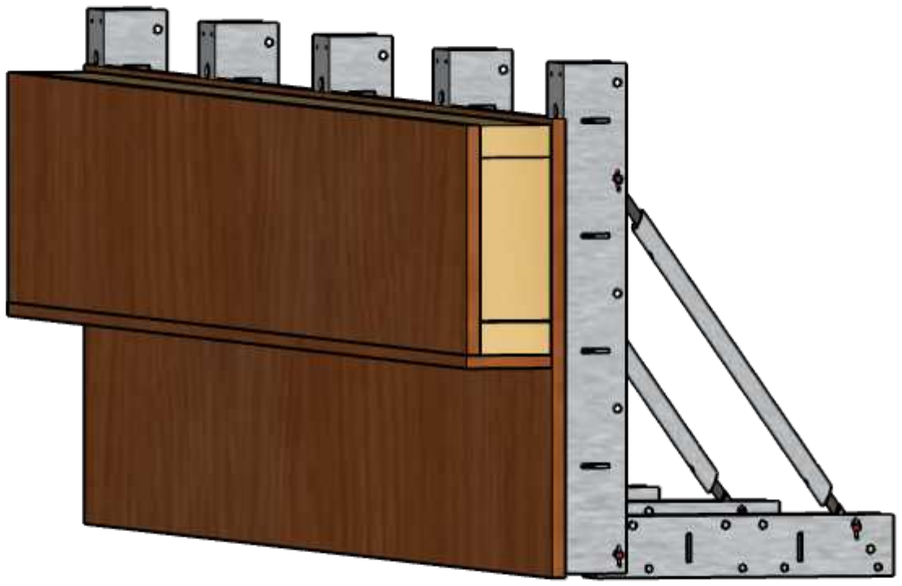
1. Creating box outs etc is very simple.
2. Create the void or boxout in Timber. (As shown above)
3. For this example its a boxout to create a Brick Ledge on a slab edge beam.
4. Note we make the timber form with Plywood underneath, this will give a good finish.
5. All box outs and voids can be made as above and then simply fixed to the Super-Form system with standard wood screws or nails.

Fix to the completed Super-Form System

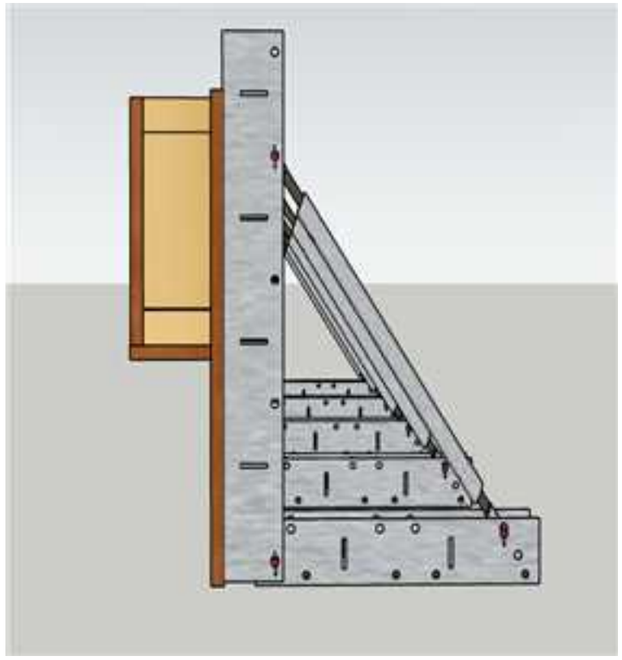


NOTE: Almost any size or shape of void can be made in this manner.

Front View



Side View



Drawing SFS0020 REV A
Description: Creating Voids, Brick Ledges, Boxouts & the like.

For a full list of available drawings please see DRAWING REGISTER SFS1000

NOTES:

See our other drawings for fixing Super-Form Brackets etc.

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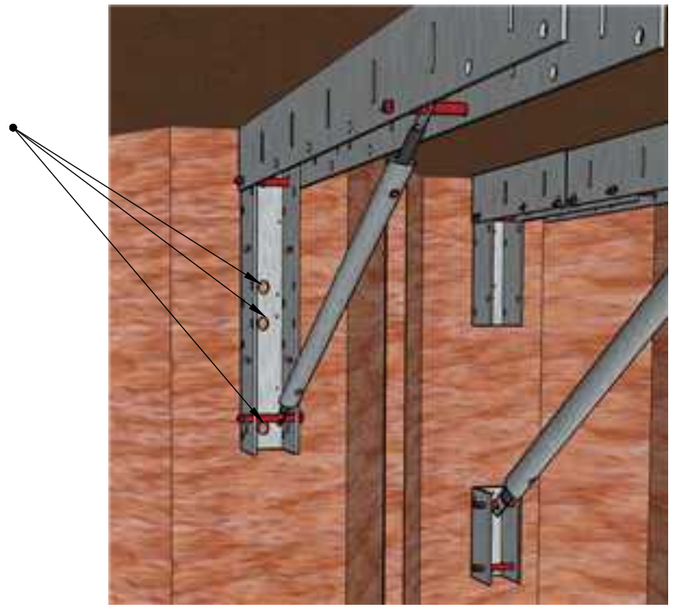
Fix Blind Bolts through sheet pile Only where other side is solid or a granular fill.

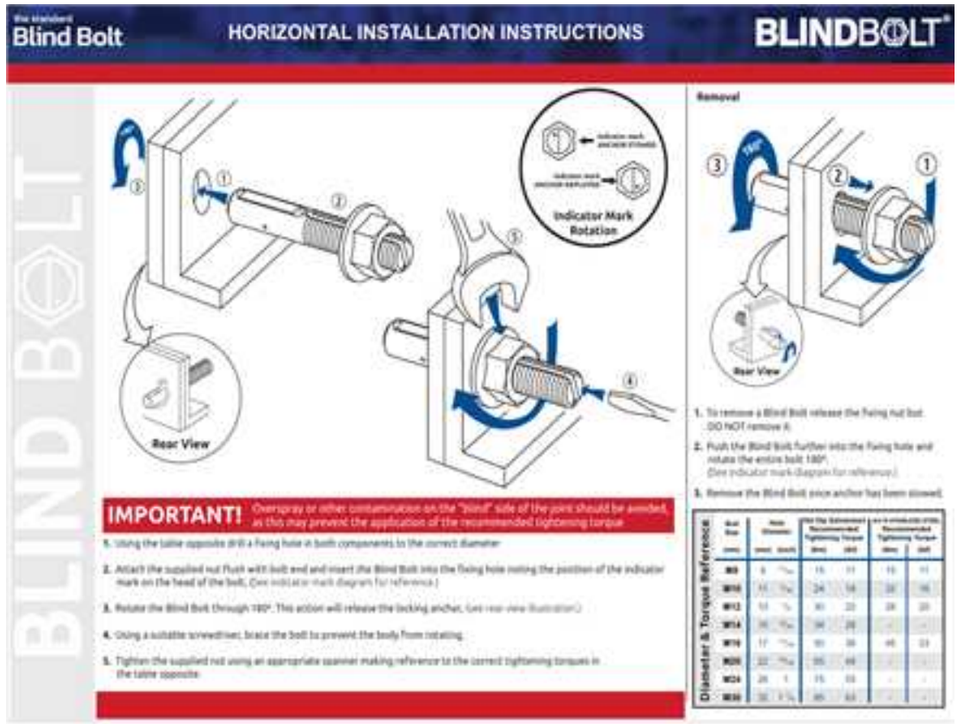
Where there is access both sides a standard M16 nut and bolt could be used and would be more cost effective.



NOTE: When using Blind Bolts always use one at top of the Bracket and one near the Bottom.

Blind Bolts are Re-Usable and can be used many times, they are ideal for when you cant access both sides of the sheet pile.

Fixing Blind Bolts



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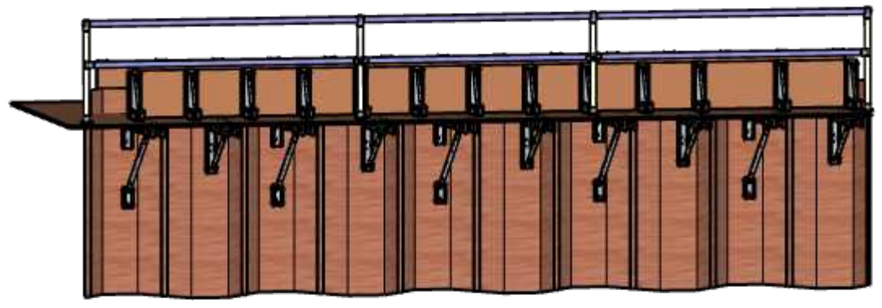
Blind Bolt

NOTE: When using Blind Bolts always use M14 or M16 Bolts, these will hold the required pressures in sheet piling applications.

For more information on Sheet Pile Capping beams see SFS0009. ALL Sheet Pile Capping Beams should have a Temporary Works Drawing and have structural calculations, please call for more details.

Completed Sheet Pile Capping Beam



NOTE: Completed Capping Beam using Blind Bolts

Drawing SFS0021 REV A
Description: Using Blind Bolts with Super-Form for Sheet Pile Capping Beams.

For a full list of available drawings please see DRAWING REGISTER SFS1000

NOTES:

See our other drawings for fixing details on Sheet Pile Capping beams.

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Fix Timber to face of bracket (Rear view)

1. Cut timber to the required height.

2. In this example we have cut at 150mm above bracket, this extends the pour height of the bracket.

3. Large bracket shown at 1000mm.

4. Screw timber to bracket using 2 screws at top, 2 in middle and 2 at the bottom.

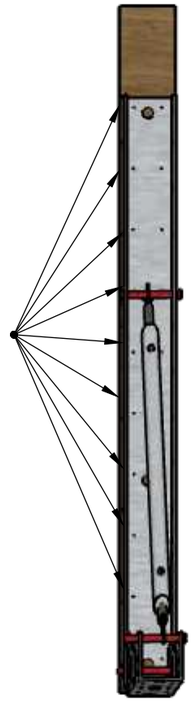
5. Screws fix from the back of the bracket face.

6. Best timber to use is 4 x 2 rough sawn or 100x50mm or similar.

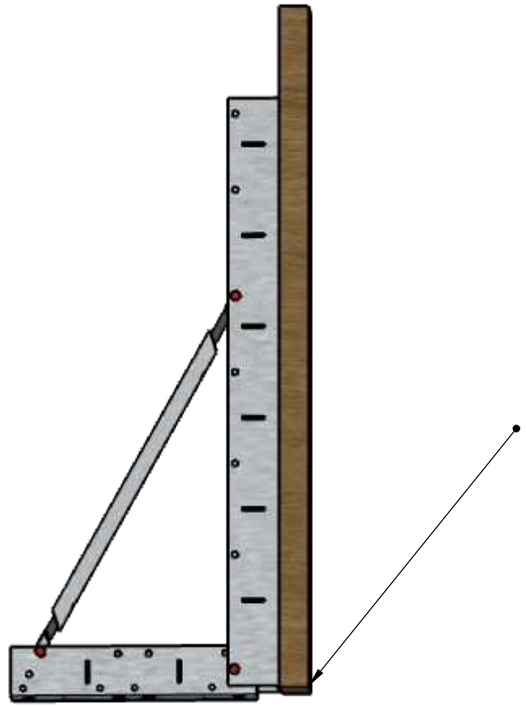
7. TOP TIP: always save the timber after use, it can be used again and again.

8. 45mm screws work well with this timber size.

Timber or Plywood fixing holes located on both sides

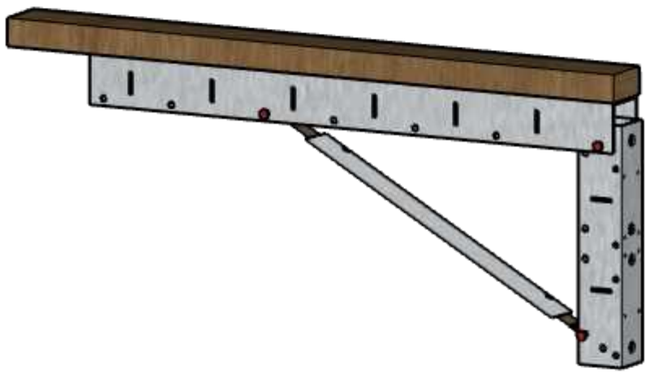


Side View of Bracket with timber fixed on



NOTE: Gap allows upright to move forward and back to allow plumbing fix timber to bottom of the upright member as shown

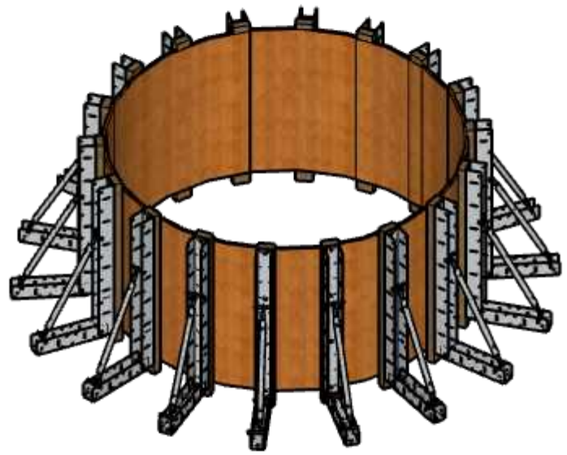
Used for sheet pile beams or soffits



NOTE: When using the bracket in this configuration (as a soffit) it allows you to screw or nail down plywood onto the timber, making it easier to fix and strip.

For fixing of Brackets see Dwg's SFS0001 or SFS0002.

Used for Radius pours



NOTE: Fixing Timber to the face of a bracket makes it an ideal way to be able to fix plywood at a radius or curve.

This also allows you to increase the height of a bracket.

Drawing SFS0022 REV A
Description: Fixing timber to the face of Super-Form Brackets.

For a full list of available drawings please see DRAWING REGISTER SFS1000

NOTES:

See our other drawings for Radius Pours, Sheet Pile Capping Beams and more.

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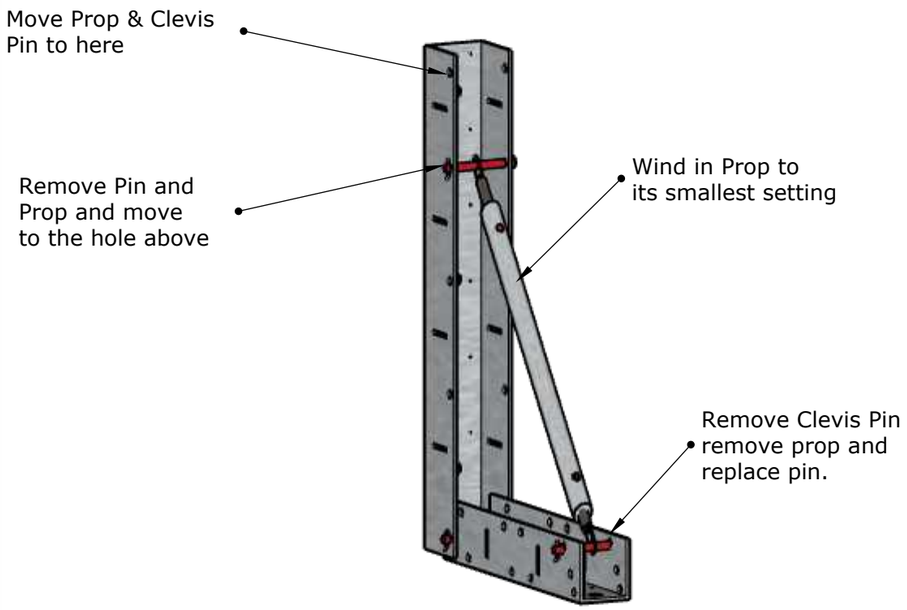
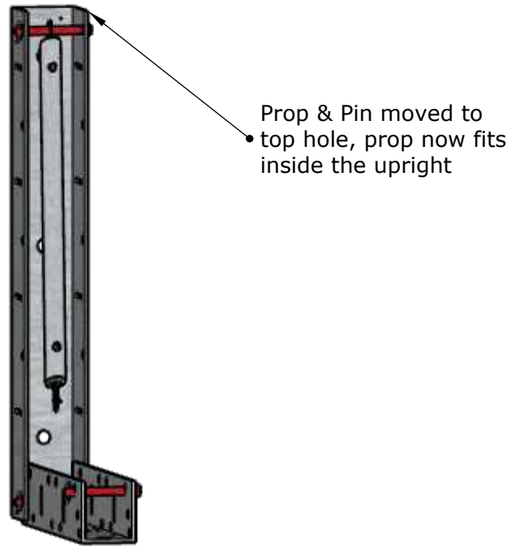
Wind in Prop to smallest setting (If Required)



1. Wind in the prop to its smallest setting, so the threads are no longer showing, the bracket will be at an inclined angle.
2. Remove Bottom Clevis Pin and take out the prop bottom, replace the Clevis Pin.
3. Remove Top Clevis Pin and prop and move the pin up to the top hole and re-attach the prop, it will now fold inside the upright.

Move Prop to highest hole (If Required)



1. Some props will fit inside the upright without the need to wind them in and may only need to be moved to the higher position.
2. Clevis Pins are held in with an 'R' clip, always replace the pins and R Clips.
3. The bracket is now ready for folding / transportation.

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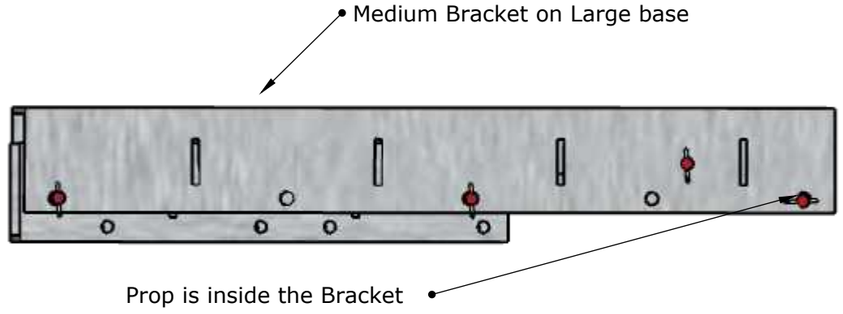
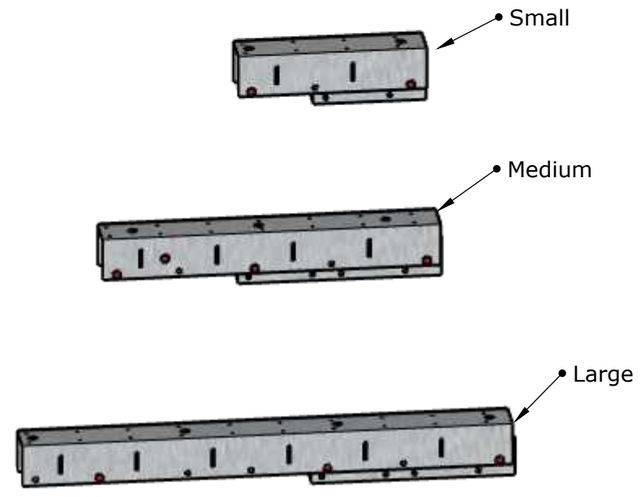
Folded Bracket Side view



1. Simply fold the bracket down and it is ready for transport or storage.
2. Always wear gloves when handling brackets and be carefull not to trap fingers when folding them.
3. Always clean brackets before folding, any brackets returned un-cleaned will have a cleaning charge applied.
4. Always replace Clevis Pins and R Clips. Missing parts are charged for!

Small, Medium & large Folded



Shown are all 3 Standard Sized brackets folded for Transport or Storage

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Drawing SFS0023 REV A
Description: Folding Super-Form Brackets for Transport or Storage.

For a full list of available drawings please see DRAWING REGISTER SFS1000

NOTES:

See our other drawings for fixing Super-Form Brackets etc.

Small Brackets in Stillage

Top View Showing Rows

Front View Showing Layers

NOTE: Brackets should be cleaned and folded for Transport prior to stacking them in the stillages, see Dwg SFS0023 for more details

Small Brackets can have 2 x rows of 10 brackets per layer and up to 7 layers typically per stillage unless you are notified otherwise.

For some palletised deliveries there may be a maximum number of Brackets allowed per stillage due to weight restrictions, please see your Order for more details.

Medium Brackets in Stillage

Top View Showing Rows

Front View Showing Layers

NOTE: Brackets should be cleaned and folded for Transport prior to stacking them in the stillages, see Dwg SFS0023 for more details

Medium Brackets can have 1 x row of 10 brackets per layer and up to 7 layers typically per stillage unless you are notified otherwise.

For some palletised deliveries there may be a maximum number of Brackets allowed per stillage due to weight restrictions, please see your Order for more details.

Large Brackets in Stillage

Top View Showing Rows

Front View Showing Layers

NOTE: Brackets should be cleaned and folded for Transport prior to stacking them in the stillages, see Dwg SFS0023 for more details

Large Brackets can have 1 x row of 8 brackets per layer and up to 7 layers typically per stillage unless you are notified otherwise.

For some palletised deliveries there may be a maximum number of Brackets allowed per stillage due to weight restrictions, please see your Order for more details.

Drawing SFS0024 REV A
Description:Stacking Super-Form Brackets in Stillages for Transport.

For a full list of available drawings please see DRAWING REGISTER SFS1000

NOTES

1. Always stack stillages in the same way they arrived.

2. Some palletised deliveries are weight limited per stillage and so the amount of brackets per stillage could vary.

3. Palletised deliveries can only be made where there is flat stable ground, these deliveries use pallet trucks that wont work on gravel or uneven ground, please do not order a palletised delivery if you are not able to load and unload the stillages via a standard pallet truck. Failed collection or deliveries are charged for!

4. Where palletised deliveries are NOT chosen, your site will need the means to unload, load and move around the stillages, i.e. a Forklift / Telehandler / Crane or other means to safely load and unload. When ordering please make us aware of what you have available on site and we will choose the best transport method to suit your site. We can arrange transport that brings its own forklift, though the rates are higher than for our economy palletised deliveries.

5. Please make sure all Brackets and hired equipment are returned, additional collections will be charged for!, our rates included one Delivery and one Collection only, part off hires will be charged for additional collections.

6. Some deliveries could have different sized brackets or accessories in the same stillage, please note the way they are stacked before unloading and make sure they are returned the same way.

NOTES:

See our other drawings for Folding / Cleaning Super-Form Brackets etc.

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Pour rates should be controlled to never exceed the maximum loadings of the equipment.

For details of pour pressures for each of our components please see our 'Load Table' drawing.

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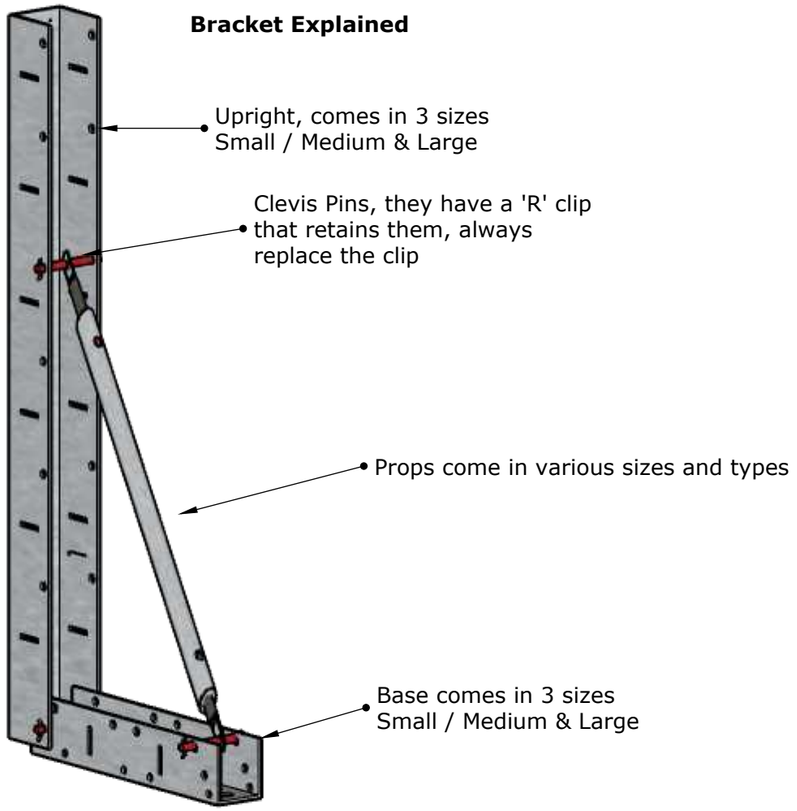
Bracket Explained



Cleaning

In most applications concrete does not come into contact with the brackets and so little cleaning is required, the exception to this is when using with Symons Steel Ply in which case the face of the bracket is in contact with the concrete, brackets should always have release oils applied in this application for every use.

For all other applications i.e using with Timber forms or using Brackets on their own with plywood face, then generally oiling of the brackets is not required and they are not in direct contact with the concrete.

Most concrete can be cleaned off brackets easily.

Always remove any overspill of concrete onto brackets whilst concrete is still wet.

Then wipe with a wet rag or wash down with water.

Should concrete be left to set, then you can simply chip it off with a hammer and the brackets should then be cleaned, a jetwash is perfect for cleaning the brackets and there are specialist solutions for cleaning concrete.

Any brackets returned in a dirty condition i.e Mud or with concrete on will be cleaned and charged back to the client.

All brackets will arrive clean and ready to use, they may have release oils on them so always wear gloves when handling brackets.

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Maintenance

There is very little maintenance on brackets.

Brackets hired will have maintenance done by ourselves and will arrive clean and serviceable.

If you own your brackets you should periodically check over Clevis Pins and make sure they remain serviceable, they are stainless steel and so have a very long lifespan.

The brackets Upright & Bases are galvanised steel and again they will need no maintenance other than cleaning and oiling and a periodic check for damage.

When Brackets are used with Steel Ply against the face of concrete, they will need Plastic Plugs for the Tie Holes, these are very inexpensive and readily available. Brackets should be regulalry oiled before every pour.

Props: They will be mostly galvanised and again require no maintenance other than greasing of threads periodically and cleaning if they come into contact with concrete, always make sure to remove excess concrete from threads as this will damage the props.

Maintenance is very low, the brackets only have 3 main components, Clevis Pins and Props can be changed if damaged.

Keep brackets clean and oiled and they should last a lifetime.

Spares / Safety

Should you have any damages to any part of your brackets please just call, we stock spare parts in most cases.

Tie Hole plugs are available from stock if needed.

If you have any questions please just call.

MINIMUM PPE:

GLOVES: You should always wear the correct PPE when working with Super-Form Brackets, always wear gloves when handling brackets, they come into contract with oils and concrete and so gloves are a requirement and are usually a requirement of most sites in any case.

BOOTS: The brackets are not that heavy, ranging from 5 to 19kg typically unless they have been extended, BUT they are made of metal and so you should always wear appropriate safety boots & other PPE as directed by your site or site conditions.

REMEMBER: Work Safe Home Safe!

Drawing SFS0025 REV A
Description: Cleaning & Oiling Super-Form Brackets (General maintenance).

For a full list of available drawings please see DRAWING REGISTER SFS1000

NOTES:

See our other drawings for fixing Super-Form Brackets etc.

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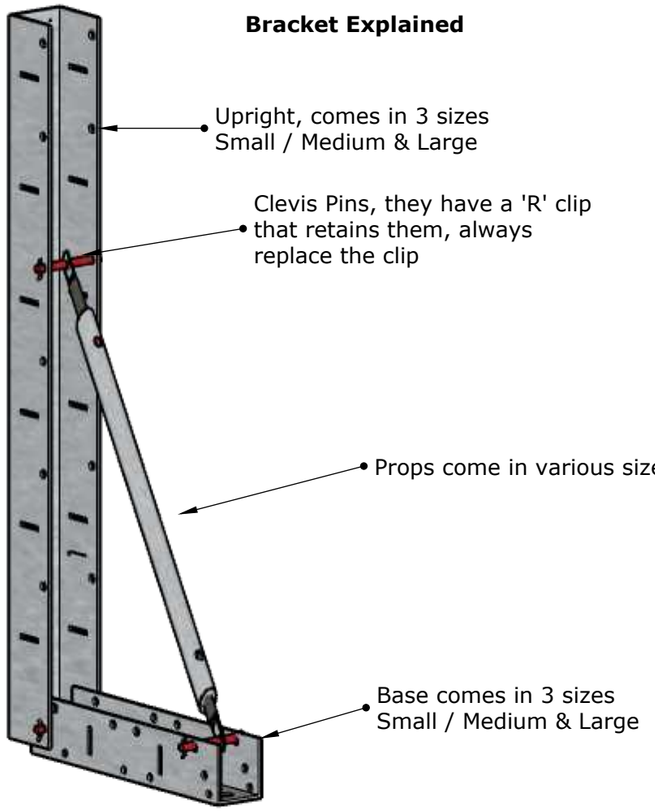
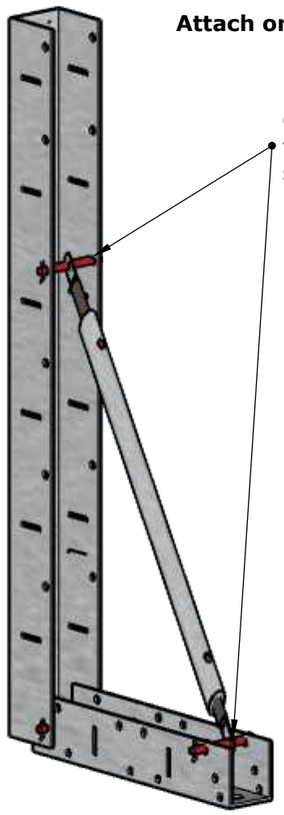
Bracket Explained



Attach or Detach a Prop

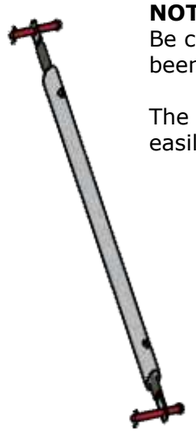


NOTE:
The locations of the pins can vary depending on the type or size of prop used.

You will see there are multiple holes that will accept the Clevis Pins.

When Transporting Brackets the Prop can be left hanging inside the Upright, see Dwg SFS0023 for more details.

Prop Removed



NOTE:
Be carefull when the Prop has been removed.

The bracket can fold on itself easily.

Clevis Pin

NOTE:
Pins are actually made from Stainless Steel, they are shown Red on Drawings so they stand out

Drawing SFS0026 REV A
Description: Super-Form Attaching & Detaching Push Pull Props.

For a full list of available drawings please see DRAWING REGISTER SFS1000

NOTES:

See our other drawings for Folding / Transport of Brackets etc.

NOTES: Not Issued For Construction

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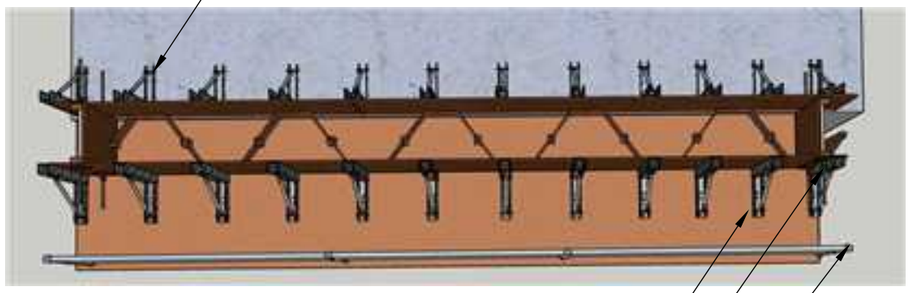
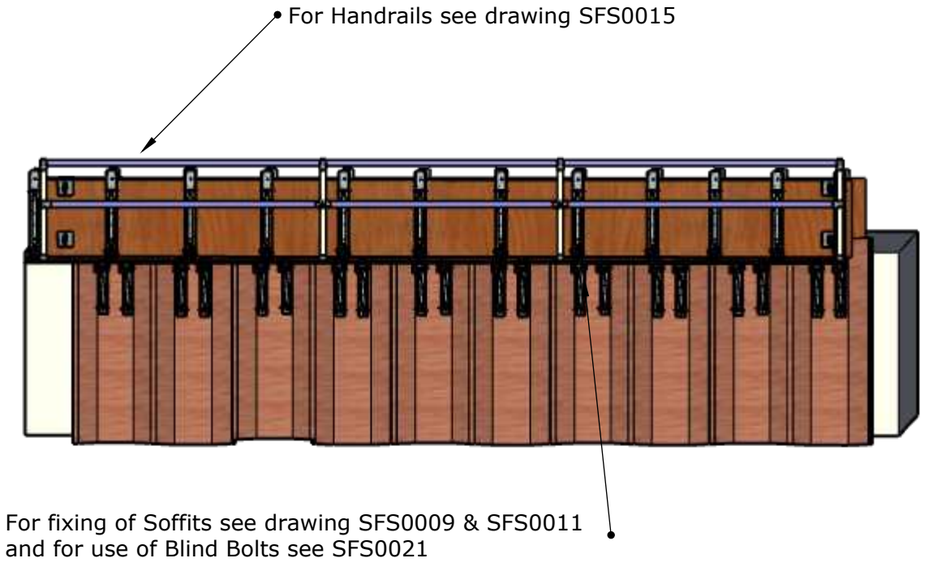
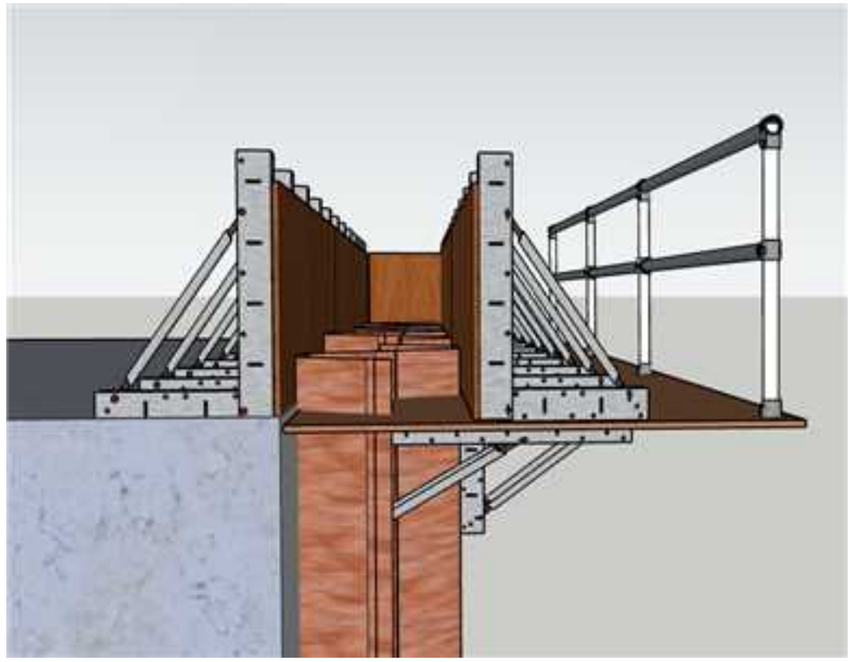
Plan View



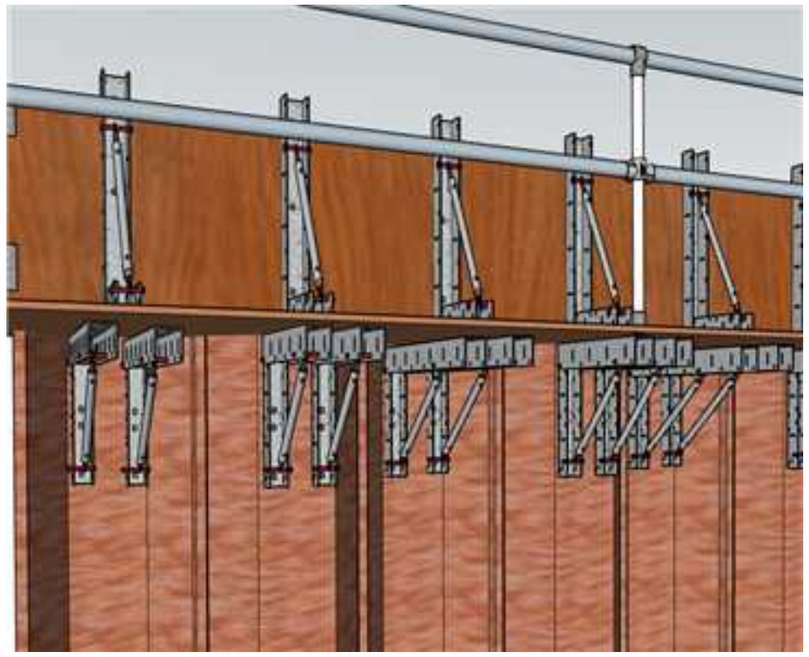
Elevation



Section



Soffit View



Drawing SFS0027 REV A
Description: Single Sided Sheet Pile Caping Beam Complete Example.

For a full list of available drawings please see DRAWING REGISTER SFS1000

NOTES:

See our other drawings for the fixing Super-Form Brackets & for fixing of Sheet Pile Capping Beams, Handrails etc. (This drawing is just an Example)

NOTES: Not Issued For Construction

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General Notes

These notes are for guidance and are not to be used with Temporary Works Drawings.

Should you need TW Drawings and calculations we can offer this as a chargeable service.

Pours below 1.2m high do not need a TW drawing typically.

Concrete pressures vary depending on many factors, such as temperature, weather and pour rates. For example a 300mm wide wall excerpts more pressure than a 1000mm wide wall at same pour rates!

So as a general rule of thumb 15c is assumed and fair weather and a pour rate of 1m rise per hour (Industry Standard).

Pour rate can be increased by the use of Tie bars, whose tensile strength is far above the pressures concrete can place on them.

Our systems strength is only limited by the accesories used such as the Props or Clevis Pins but as a rule if you assume 55kN permisable load force, that will cover most scenarios of pouring and our systems work with a safety factor of at least 2 within these parameters based on standard centre spacings.

Pour rates can be safely increased by reducing spacings and adding tie bars and for larger wall pours stronger props are available.

Appropriate ground fixings need to be used to withstand the pressure excerpted on them. M16 Rawl or concrete bolts and 20mm road pins are generally used.

Clevis Pins

Main Clevis Pins
are 16mm Diameter X 90mm long.

Made of A4-70 Stainless Steel.

Shear strength is far above the strength of brackets or props and load of concrete is always spread over 2 X Clevis Pins on vertical faces and one on the push pull prop.

4 Material:

The materials used for this assembly are S275 steel for the main members, and high carbon A4-70 stainless steel clevis pins.

The relevant mechanical properties of S275 are as follows:

- Yield strength = 275 MPa
- Ultimate tensile strength = 400 MPa
- Density = 7900 kg/m3

For the clevis pins, the relevant mechanical properties are detailed below:

- Yield strength = 450 MPa
- Ultimate tensile strength = 700 MPa
- Density = 7900 kg/m3

Prop Load Table / Pour Rates

Code	Description	Used on	W.L.L		Size Closed		Size Open
	Prop	Bracket	Tonnes		Min mm		Max MM
SP	Small M8	Small	0.30		185.00		270.00
MP	Medium M16	Medium	1.20		352.00		542.00
LP	Large M24	Large	3.20		480.00		735.00
ELP	Extra Large M27	Large/Joined	3.80		540.00		810.00

Pour Rates:

Double sided pours with no tie bars, i.e slabs, beams and the like can be safely poured at a rate of 1m rise per hour in standard conditions. This applies to all heights.

Wall pours should generally have tie bars fitted, pour rate will depend on the type and number of tie bars as they will bear the majority of the loading. A seperate calculation should be done for wall pours.

The working load limit in the table above is **Per Prop**, so for example on a 1m high pour with brackets at 500mm centres, you would have 3 X props per M2, able to withstand a WLL force of 11.4 Tonnes per M2 or 111.8 kN per M2 which is many times more than any concrete pressure could actually reach. This is the Working Load limit, so apply a safety factor of 2 and you have a safe working load of 55.5 kN per m2 which is well within safe working loads of the system.

Centres of Brackets for fixing

Recommended centres for brackets can vary depending on use.

If a bracket is used with Steel Ply or a Timber shutter, then the loading of the system used should be taken into account, centres can be generally 1200 to 1500mm apart dependent on pour pressures.

Bracket centres are only limited by either the Prop used or the system used, so for example on wall pours the tie bars will take all of the pressure and the prop becomes only an alignment tool taking almost no pressure.

Spacings are then dictated by the required finiish.

When using Super-Form on its own with plywood there are 2 main Centres that can be used (based on 18mm ply thickness for thicker ply centres could be increased):

Standard 488mm Centre to Centre, this leaves only 403mm of unsupported plywood (Brackets are 85mm wide), good enough for a fair face finish and is suitable for most pours including single sided pours though its recommended to close in centres to 348mm for single sided pours above 700mm.

610mm Centre to Centre, this leaves 525mm of unsupported plywood, good enough for lower grade finishes where the line is not crucial (ground beams & the like). Not suitable for Single Sided generally.

All centres are caluclated to leave plywood finishing in the centre of a bracket, all ply joints should land dead centre of a bracket.

Drawing SFS1000 REV A
Description: Load tables.

For a full list of available drawings please see DRAWING REGISTER SFS1000

NOTES:

See our other drawings for fixing Super-Form Brackets etc.

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