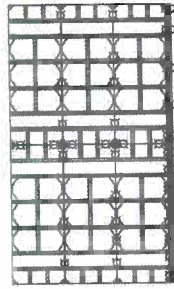
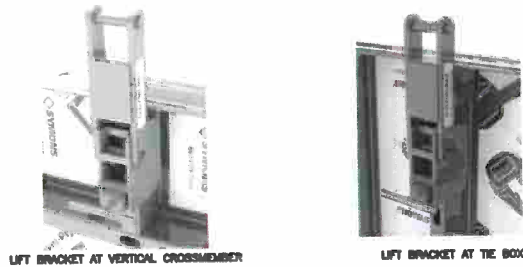


**OUTER CORNER CLAMPING REQUIREMENTS**

**Caution:** Additional clamps are required at corners! Concrete pressure forces at corners require the installation of additional clamps at and near the formed corners. Please refer to the Sym-Ply Application Guide for stack configurations and clamp placement.



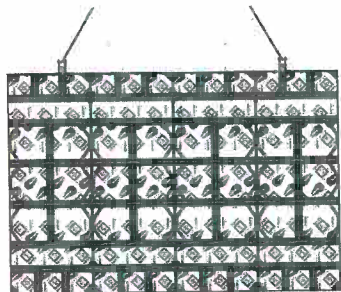
**SYM-PLY LIFT BRACKETS DETAILS**



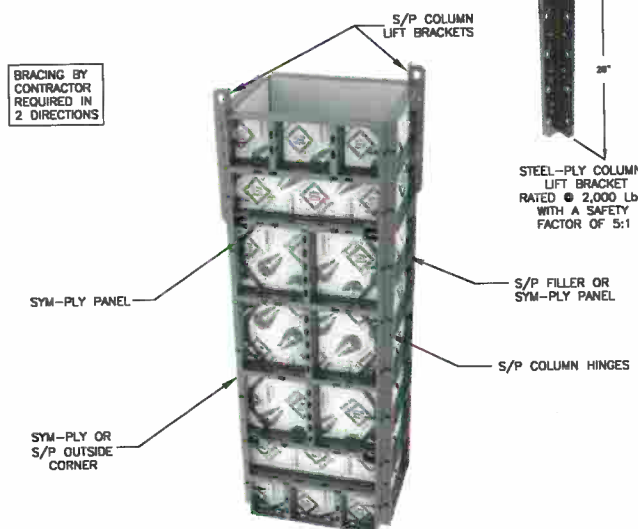
SYM-PLY LIFT BRACKET  
SAFE WORKING LOAD = 2,000 lbs.  
@ 5:1 SAFETY FACTOR  
(MINIMUM 60° LIFT FROM HORIZONTAL)

**LIFTING AND BRACKET PLACEMENT OF GANG FORM**

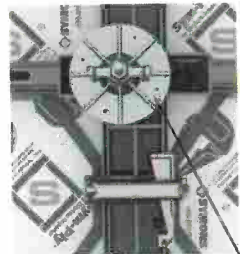
**CAUTION**  
THE ANGLE FOR THE ATTACHED LIFTING LINES MUST BE GREATER THAN OR EQUAL TO 60 DEGREES FROM HORIZONTAL. WHEN MORE THAN TWO BRACKETS ARE INSTALLED, A SPREADER BEAM MUST BE USED.



**TYPICAL COLUMN WITH CORNER**

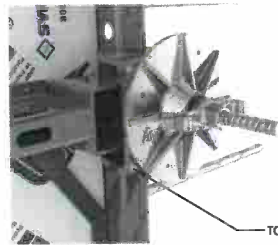


**FRAME TIE PLATE USED AT DOUBLE 2 INCH FILLER**  
FRAME TIE PLATE MUST BE USED AS SHOWN WHEN USING TWO (2) INCH FILLERS



7" DIAMETER TIE PLATE INSURES ALL PANELS AND FILLERS ARE ADEQUATELY SUPPORTED BY THE TIE.

**ATTACHING WALERS ON BULKHEADS**

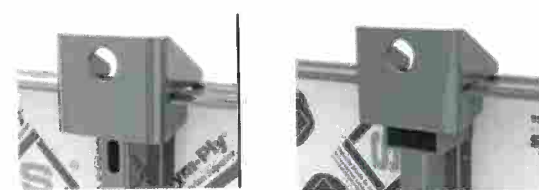


BULKHEAD SYM-HOOK  
TOP TIE BRACKET  
7" DIA. TIE PLATE  
SYM-PLY WALER ATTACHED WITH BULKHEAD SYM-HOOK & 4 X 6 TIE PLATES.

**NOTE:** - SAFE WORKING LOAD OF THE TOP TIE BRACKET CLIP IS 7,000 lbs.

TOP TIE BRACKET CONFIGURATION ELIMINATES DRILLING THRU LUMBER BULKHEAD, BY PASSING THE ROD OUTSIDE OF PANEL.

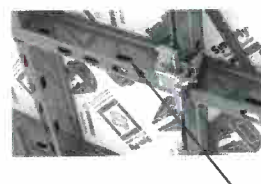
**TOP TIE BRACKET DETAILS**



TOP TIE BRACKET  
SAFE WORKING LOAD = 7,000 lbs. @ 2:1 SAFETY FACTOR



TYPICAL TIE PLATE ORIENTATION AT PANEL JOINTS



SAFETY TIE OFF LOCATIONS (DO NOT ATTACH TO CRANE)



SYM-PLY TURNBUCKLE BRACKET ON TYPE 1 PANEL

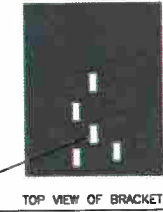
SYM-PLY TURNBUCKLE BRACKET ON TYPE 2 PANEL

SYM-PLY TIE OFF BRACKET  
RATED @ 5,000 lbs  
(DO NOT ATTACH TO CRANE)

MULTI-SHEAR WALL BRACKET & GUIDE PLATE  
RATED @ 2,000 lbs IN 2,000 P.S.I. CONCRETE @ 3:1 SAFETY FACTOR



FRONT VIEW OF BRACKET. REAR VIEW OF BRACKET.

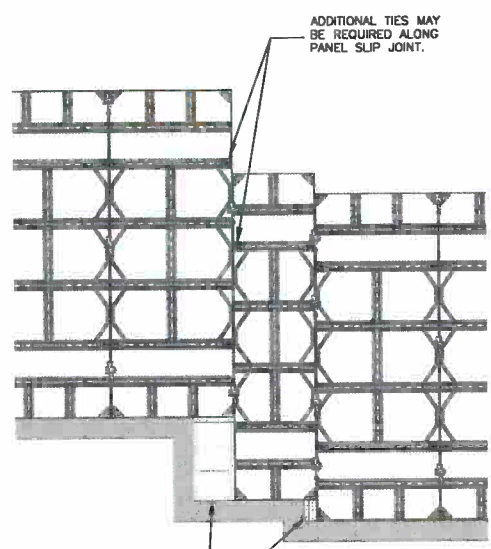


USE THIS SLOT FOR SYM-PLY. TOP VIEW OF BRACKET.

**SPECIFIC TIE NOTES**

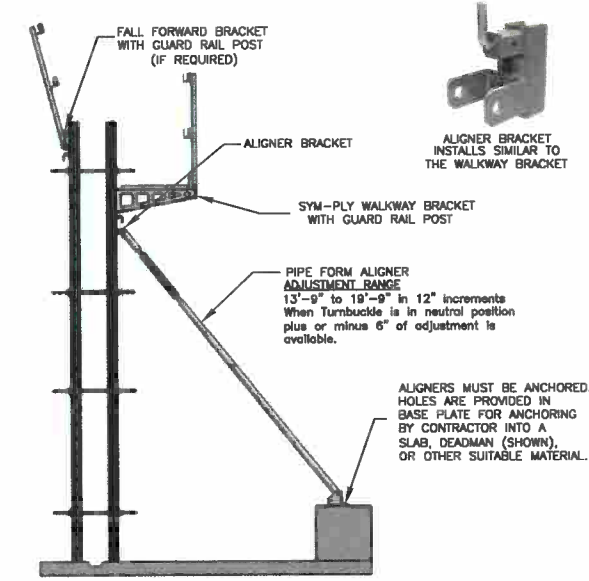
- WHEN USING TAPER TIES AND/OR SHE-BOLTS, IT IS VERY IMPORTANT THAT THE TIE NUTS ARE CONSISTENTLY FITTED SNUG. AN OVERTIGHTENED TIE COULD CAUSE A TIE FAILURE DUE TO UNEVEN TIE LOADING. USE OF WALL SPREADERS IS RECOMMENDED TO AID IN MAINTAINING FORM SPACING BOTH DURING ERECTION AND POUR PROCESSES.
- TAPER TIES AND SHE-BOLTS MUST BE ADEQUATELY LUBRICATED TO AID IN STRIPPING.

**STEPPED ELEVATIONS**



ADDITIONAL TIES MAY BE REQUIRED ALONG PANEL SLIP JOINT.  
LUMBER FILLER BY CONTRACTOR WHICH MAY REQUIRE ADDITIONAL TYING.

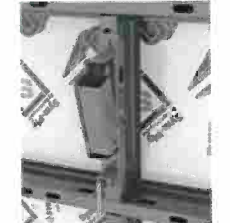
**VERTICAL FORM ALIGNMENT**  
(MAXIMUM SPACING 8 FEET)



ALIGNER BRACKET INSTALLS SIMILAR TO THE WALKWAY BRACKET.  
SYM-PLY WALKWAY BRACKET WITH GUARD RAIL POST.  
PIPE FORM ALIGNER ADJUSTMENT RANGE 13'-9" to 19'-9" in 12" increments. When Turnbuckle is in neutral position plus or minus 6" of adjustment is available.  
ALIGNERS MUST BE ANCHORED. HOLES ARE PROVIDED IN BASE PLATE FOR ANCHORING BY CONTRACTOR INTO A SLAB, DEADMAN (SHOWN), OR OTHER SUITABLE MATERIAL.  
ADDITIONAL BRACE OPTION: PIER CAP BRACE ADJUSTMENT RANGE 4'-11 1/2" to 13'6" USING COMBINATIONS OF BRACES AND EXTENSIONS.

**FALL FORWARD BRACKET**

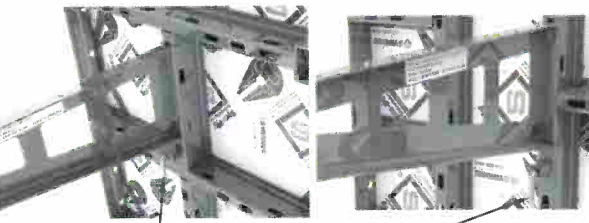
MAXIMUM SPACING OF FALL FORWARD BRACKET IS 8'-0" C/C



INSTALLATION AND REMOVAL OF FALL FORWARD BRACKETS. SEE WALKWAY BRACKET INSTALLATION AND REMOVAL INSTRUCTION.

**SECURING WALKWAY BRACKETS**

MAXIMUM SPACING OF WALKWAY BRACKET IS 8'-0" AT A PERMISSIBLE LOAD OF 500 Lbs. @ 4:1 SAFETY FACTOR



WALKWAY BRACKET ON VERTICAL PANEL. WALKWAY BRACKET ON HORIZONTAL PANEL.

**INSTALLATION AND REMOVAL OF WALKWAY BRACKETS.**

TO INSTALL, WITH THE BRACKET AT A SLIGHT ANGLE, INSERT THE TOP HOOK INTO AND AGAINST THE TOP OF A SLOT. WITH THE TOP OF THE BRACKET HELD AGAINST THE VERTICAL/HORIZONTAL MEMBER, ROTATE THE BOTTOM HOOK INTO THE LOWER SLOT AND SLIDE THE ENTIRE BRACKET DOWN UNTIL THE HOOKS ENGAGE AND THE SPRING PIN SNAPS INTO THE SLOT.

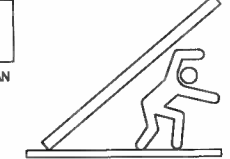
NOTE: BE SURE SPRING PIN SNAPS INTO SLOT AS THIS PREVENTS UP/LIFT AND/OR ACCIDENTAL REMOVAL.

TO REMOVE, PULL THE SPRING HANDLE BACK AND SLIDE THE BRACKET UP AND PULL THE BRACKET AWAY FROM THE VERTICAL/HORIZONTAL MEMBER.

THE CONTRACTOR IS RESPONSIBLE FOR SUPPLYING ANY ADDITIONAL COMPONENTS (PLANKING, GUARDRAILS, ETC.) REQUIRED TO CREATE A WORK PLATFORM WHICH MEETS OR EXCEEDS ALL APPLICABLE INDUSTRY STANDARDS.

**WARNING**

UNSECURED GANG FORMS CAN FALL OVER CAUSING SEVERE INJURY OR DEATH.



**IMPORTANT: BRACING**

- BRACING MUST BE IN PLACE WHILE SETTING FORMWORK AND REMAIN IN PLACE UNTIL FORMS ARE STRIPPED.
- CONTRACTOR IS TO INSURE THAT FORMWORK IS PROPERLY BRACED AND STABILIZED AGAINST WIND AND OTHER EXTERNAL FORCES.

**STRIPPING AND REMOVAL OF GANG FORMS**

- ATTACH THE CRANE RIGGING TO THE LIFTING BRACKETS AND SLOWLY TAKE UP THE SLACK IN THE RIGGING.
- SECURE BACKSIDE GANG TO PREVENT ITS FALLING, PRIOR TO STEP 3.
- SAFELY REMOVE ALL TIES, BRACES, AND ALIGNERS.
- BREAK THE BOND BETWEEN THE CONCRETE AND THE FORMS. DO NOT USE THE CRANE TO BREAK THE BOND.
- MOVE THE GANG FORM TO THE NEXT LOCATION.
- FULLY BRACE AND SECURE THE FORM BEFORE REMOVING CRANE RIGGING.

**WEAR EYE AND HEAD PROTECTION**



SYMONS RECOMMENDS GLOVES, HARDHATS, SAFETY SHOES, AND SAFETY GLASSES BE WORN DURING ALL FORMING AND POURING OPERATIONS.

**SYMONS**  
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1-800-800-SYMONS FAX 847/635-9287  
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E-Mail info@symons.com



<b>FOR JOB LOCATION</b>		
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