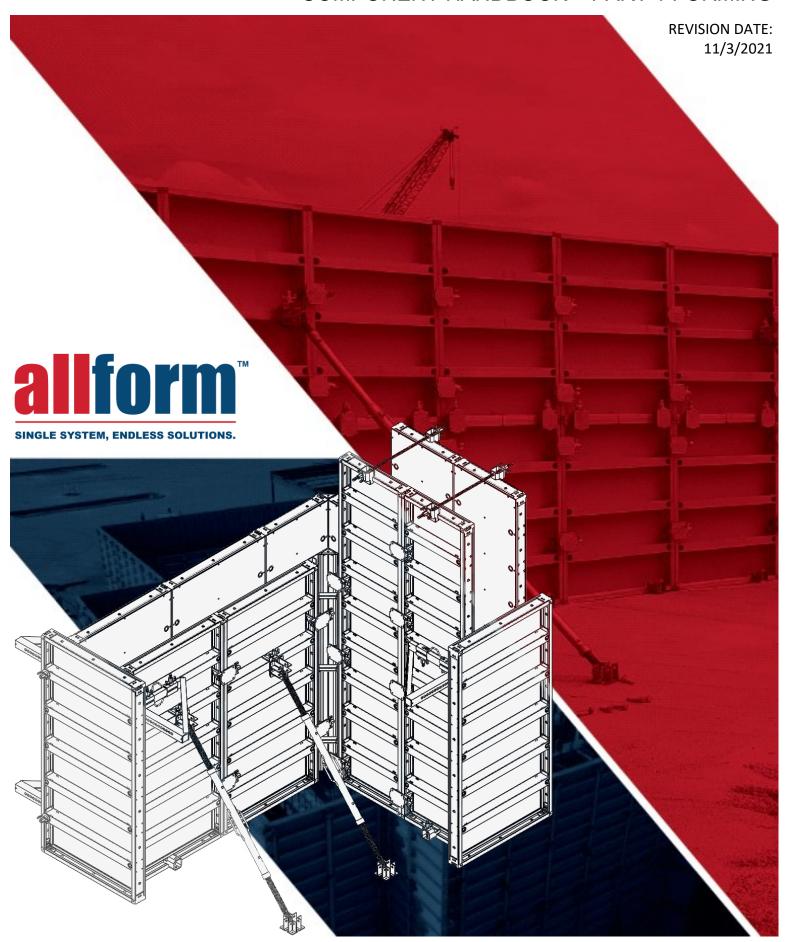
COMPONENT HANDBOOK – PART 1 FORMING



PATENTS PENDING 2019 SHEET 1 of 72

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6	
	9' HIGH X 48", 36" & 24" WIDTH PANELS
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9	6' ADJUSTABLE FILLERS
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ALLFORM IS A SINGLE INTEGRATED FORMING AND SHORING SYSTEM THAT HAS BEEN DESIGNED TO PROVIDE A WIDE RANGE OF SOLUTIONS FOR CONCRETE CONSTRUCTION APPLICATIONS. THE SYSTEM INCLUDES MANY INNOVATIONS THAT PROVIDE SAFER WORKER ACCESS, INCREASE USER EFFICIENCIES, AND LOWER OVERALL PROJECT RELATED COSTS.

A CORE DESIGN FEATURE MAINTAINED DURING THE SYSTEMS DEVELOPMENT WAS THAT COMPONENTS MUST HANDLE MULTIPLE FUNCTIONS. THIS KEY RULE HELPED TO MINIMIZE INVENTORY ITEMS, WHICH REDUCES STORAGE AND HANDLING COSTS, WHILE ALSO SIMPLIFYING THE INSTALLATION PROCESS FOR THE END USER. ADDITIONALLY, THE PRIMARY COMPONENTS OF THE SYSTEM ARE CONSTRUCTED OF NON-WELDED ALUMINUM PARTS THAT ARE CONNECTED WITH VIBRATION RESISTANT HARDWARE. THIS METHOD OF ASSEMBLY INCREASES STRENGTH AND DURABILITY, WHILE REDUCING MANUFACTURING AND INVENTORY HANDLING COSTS. AT THE SAME TIME, THE ALUMINUM FRAMEWORK REDUCES COMPONENT WEIGHT, MAKING THE SYSTEM FASTER TO ASSEMBLE..

ALLFORM IS ALSO CAPABLE OF HANDLING MANY OTHER TYPES OF CONSTRUCTION PROJECT APPLICATIONS. THE SYSTEM WAS DESIGNED TO SUPPORT VARIOUS TYPES OF HIGH LOAD CONDITIONS, AS WELL AS HEAVY DUTY ACCESS APPLICATIONS THAT OCCUR ON A WIDE RANGE OF CONSTRUCTION SITUATIONS.

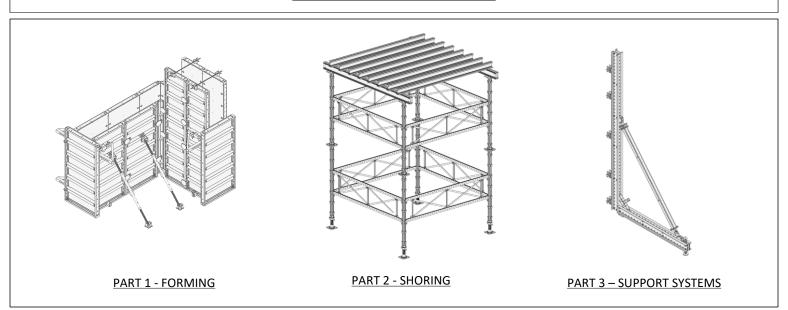
THE COMBINATION OF REDUCED SYSTEM WEIGHT AND HAVING A HIGH DEGREE OF VERSATILITY, ALONG WITH ALL THE OTHER KEY INNOVATIONS, SIGNIFICANTLY INCREASES FIELD PRODUCTION FOR ALL RELATED PROJECT ACTIVITIES.

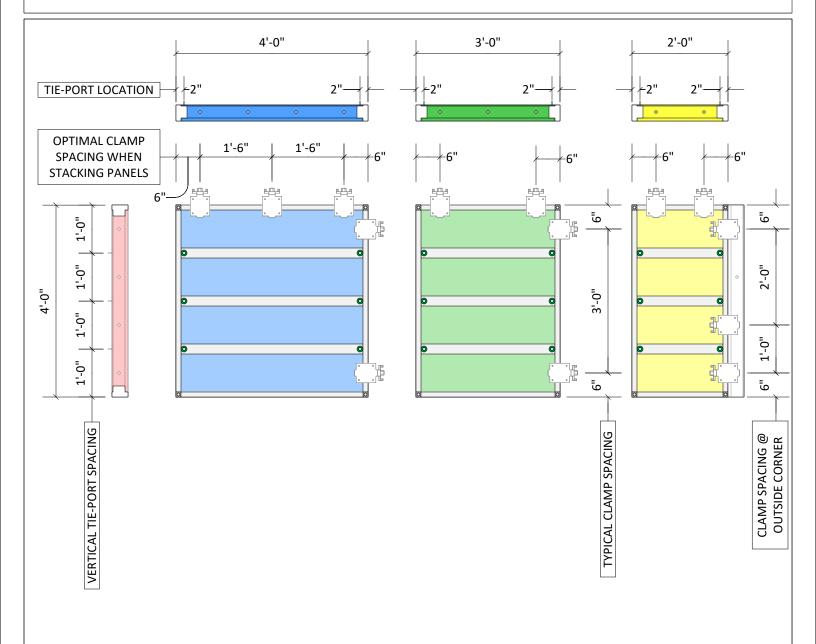
ALLFORM IS A SINGLE INTEGRATED CONSTRUCTION SYSTEM THAT PROVIDES A WIDE RANGE OF CONSTRUCTION PROJECT SOLUTIONS

SYSTEM OVERVIEW:

- NON-WELDED ALUMINUM AND STEEL COMPONENT CONSTRUCTION
- LIGHTWEIGHT / STRONG / DURABLE
- MINIMAL COMPONENTS WITH A HIGH DEGREE OF VERSITALITY
- WIDE RANGE OF USES INCLUDING: VARIOUS METHODS OF FORMING & SHORING, HEAVY DUTY ACCESS APPLICATIONS, AS WELL AS WIDE RANGE OF INTEGRATED SOLUTIONS.

COMPONENT HANDBOOK OVERVIEW





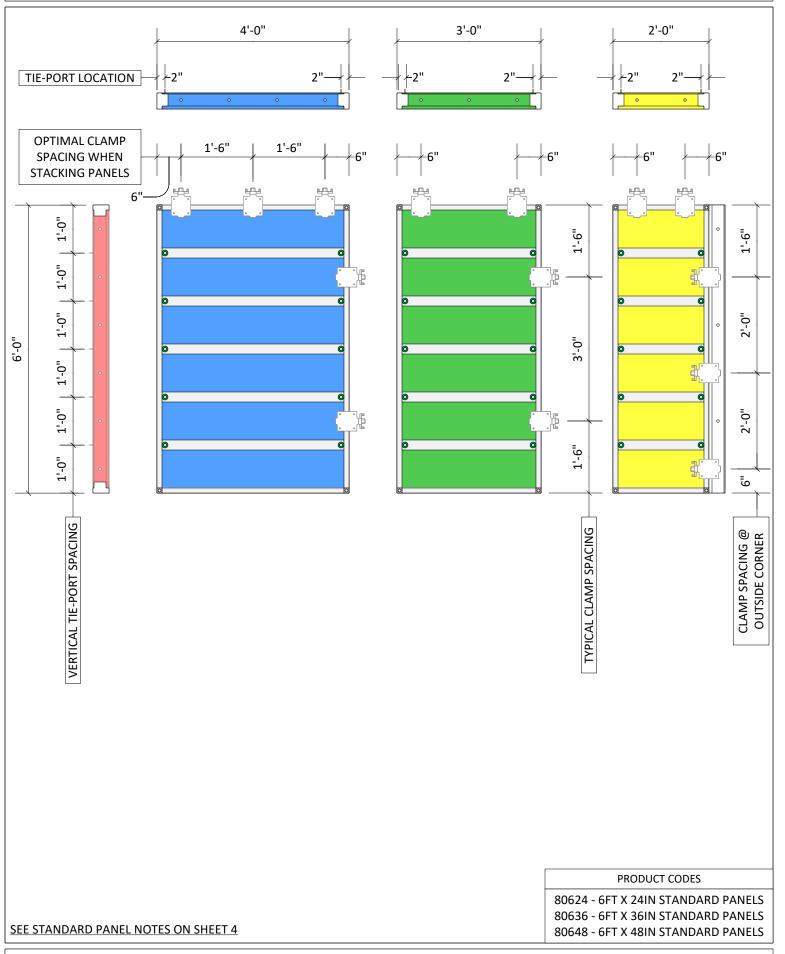
STANDRD PANEL NOTES:

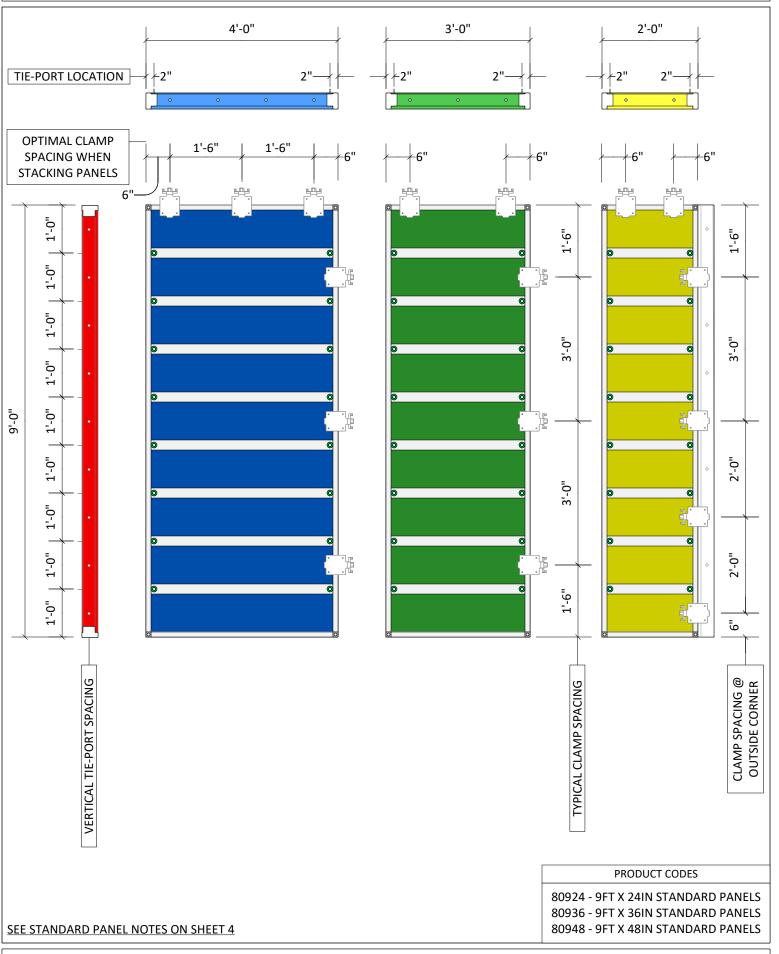
- ALLFORM PANEL FRAMES ARE CONTRUCTED FROM <u>NON-WELDED</u> EXTRUDED ALUMINUM WITH ALUINUM AND STEEL FITTINGS, STAINLESS STEEL CONNECTORS AND A SYNTHETIC FORM FACE
- TIE PORTS ARE LOCATED EVERY 12" VERTICALLY AND 2" INSIDE EACH VERTICAL SIDE RAIL
- TIE INSERTS ARE INCLUDED ON ALL PANELS AND WILL CONTAIN A COMBINATION OF THE FOLLOWING INSERTS:
 - RED TIE PORT USED BY ITSELF WHEN USING A SHE-BOLT AND INNER TIE ROD ASSEMBLY.
 - GREEN INSERTS INSTALL INSIDE RED TIE PORT WHEN NO TIE IS REQUIRED AT A SPECIFIC LOCATION
 - YELLOW INSERT INSTALL INSIDE RED TIE PORT WHEN A THRU-ROD AND PVC SLEEVE TIE IS REQUIRED A SPECIFIC LOCATION
 - BLUE INSERT INSTALL INSIDE RED TIE PORT WHEN AN OVERLAP CORNER BRACKET TIE ROD ASSEMBLY IS REQUIRED AT A
 SPECIFIC LOCATION OR WHEN OTHER CAST-IN-PLACE TIES OR ANCHORS ARE SPECIFIED.
- ALLFORM PANEL CAN BE USED AS VERTICAL FORMWORK FOR VERTICAL FOUNDATIONS, COLUMNS, WALLS, SLAB EDGES OR BEAM SIDES, AS WELL AS DECKING FOR HORIZONTAL SLABS OR BEAMS
- MAXIMUN ALLOWABLE PRESSURE FOR STANDARD PANELS ARE AS FOLLOWS: (CONSULT ENGINEERING IF HIGHER PRESSURES ARE REQUIRED)
 - A) 18" WIDE PANELS 2,000 PSF (LIMITED EDITION)
 - B) 24" WIDE PANELS 2,000 PSF
 - C) 30" WIDE PANELS 2,000 PSF (LIMITED EDITION)
 - D) 36" WIDE PANELS 1,750 PSF
 - E) 48" WIDE PANELS 1,500 PSF

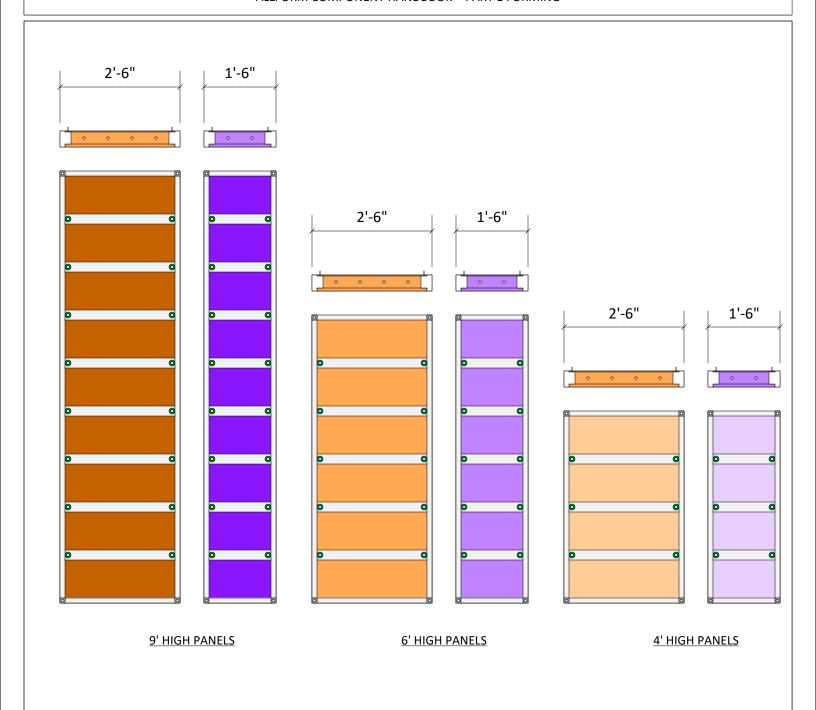
PRODUCT CODES

80424 - 4FT X 24IN STANDARD PANELS

80436 - 4FT X 36IN STANDARD PANELS 80448 - 4FT X 48IN STANDARD PANELS







PRODUCT CODES

80918 - 9FT X 18IN STANDARD PANELS

80930 - 9FT X 30IN STANDARD PANELS

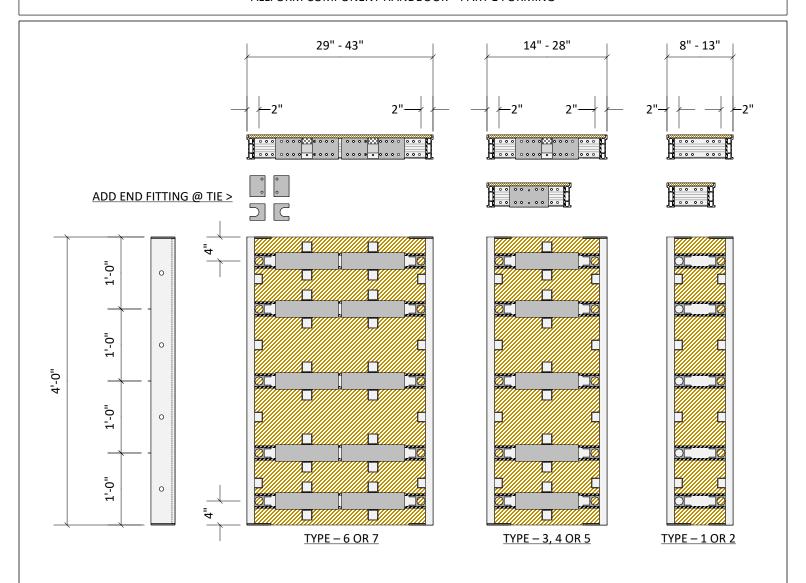
80618 - 6FT X 18IN STANDARD PANELS

80630 - 6FT X 30IN STANDARD PANELS

80418 - 4FT X 18IN STANDARD PANELS

80430 - 4FT X 30IN STANDARD PANELS

SEE STANDARD PANEL NOTES ON SHEET 4



ADJUSTABLE FILLER AND CORNER NOTES:

- ALLFORM ADJUSTABLE FILLERS ARE CONSTRUCTED WITH FILLER SIDERAIL ASSEMBLIES AND ADJUSTABLE INNER RAILS. ADJUSTABLE RAIL CAN BE SUBSTITUTED WITH CUSTOM LUMBER RAIL (STRAIGHT, RADIUSED OR OTHER SHAPES)
- TIE PORTS ARE LOCATED EVERY 12" VERTICALLY AND 2" INSIDE EACH VERTICAL SIDE RAIL ASSEMBLY
- TIE PORTS ARE OPTIONAL WITH ALL FILLER TYPES AND COULD INCLUDE A COMBINATION OF THE FOLLOWING:
 - RED TIE PORT USED BY ITSELF WHEN USING A SHE-BOLT AND INNER TIE ROD ASSEMBLY.
 - GREEN INSERTS INSTALL INSIDE RED TIE PORT WHEN NO TIE IS REQUIRED AT A SPECIFIC LOCATION
 - YELLOW INSERT INSTALL INSIDE RED TIE PORT WHEN A THRU-ROD AND PVC SLEEVE TIE IS REQUIRED A SPECIFIC LOCATION
 - BLUE INSERT INSTALL INSIDE RED TIE PORT WHEN AN OVERLAP CORNER BRACKET TIE ROD ASSEMBLY IS REQUIRED AT A
 SPECIFIC LOCATION OR WHEN OTHER CAST-IN-PLACE TIES OR ANCHORS ARE SPECIFIED.
- ALLFORM ADJUSTABLE FILLERS CAN BE USED AS VERTICAL FORMWORK FOR VERTICAL FOUNDATIONS, COLUMNS, WALLS, SLAB EDGES
 OR BEAM SIDES, AS WELL AS DECKING FOR HORIZONTAL SLABS OR BEAMSREFERENCE THE FOLLOWING SHEETS FOR ADDITIONAL
 COMPONENT AND DIMENSIONAL INFORMATION
- ALLOWABLE PRESSURE FOR ADJUSTABLE FILLERS AND CORNERS ARE AS FOLLOWS: (CONSULT ENGINEERING IF HIGHER PRESSURES ARE REQUIRED)

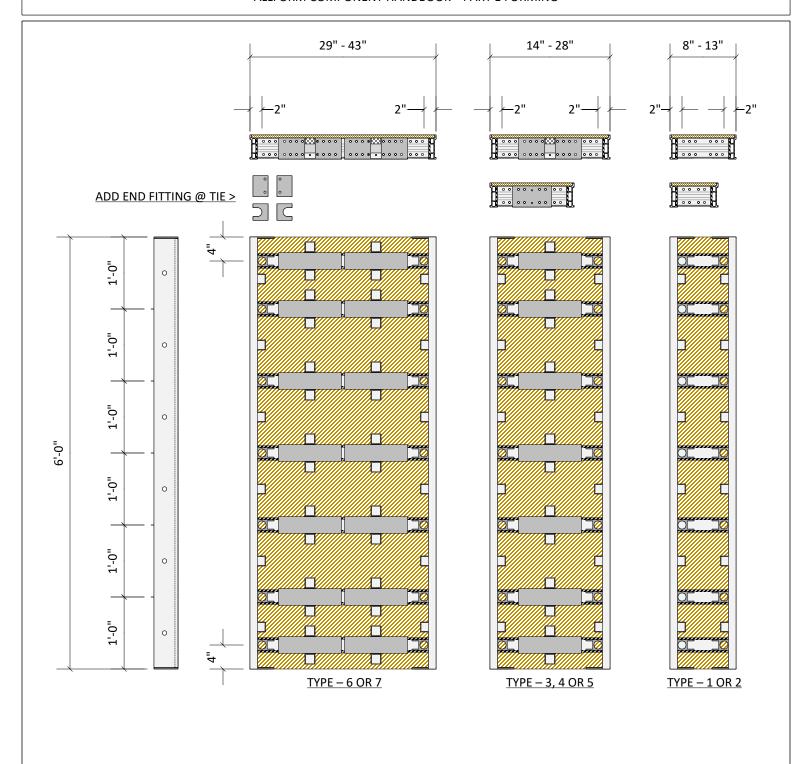
A) TYPE 1 & 2 - 1,750 PSF

B) TYPE 3, 4 & 5 - 1,500 PSF

C) TYPE 6 AND 7 - 1,250 PSF

PRODUCT CODES

BFA400xx - 4FT X (xx)IN ADJUSTABLE FILLER



PRODUCT CODES

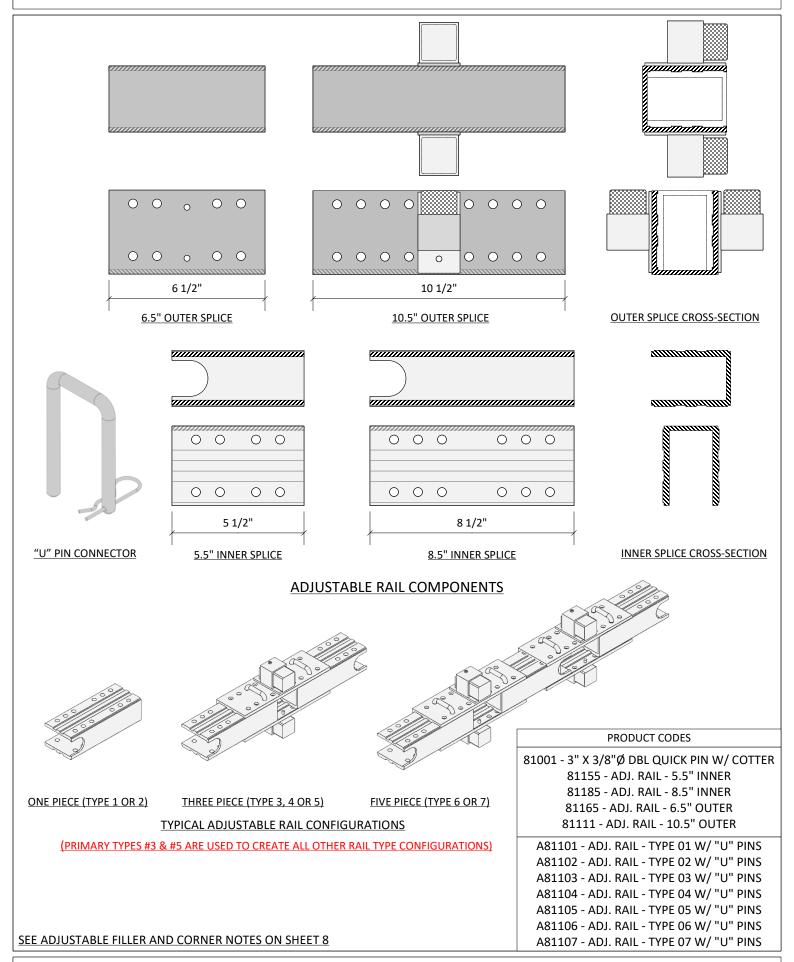
BFA600xx - 6FT X (xx)IN ADJUSTABLE FILLER

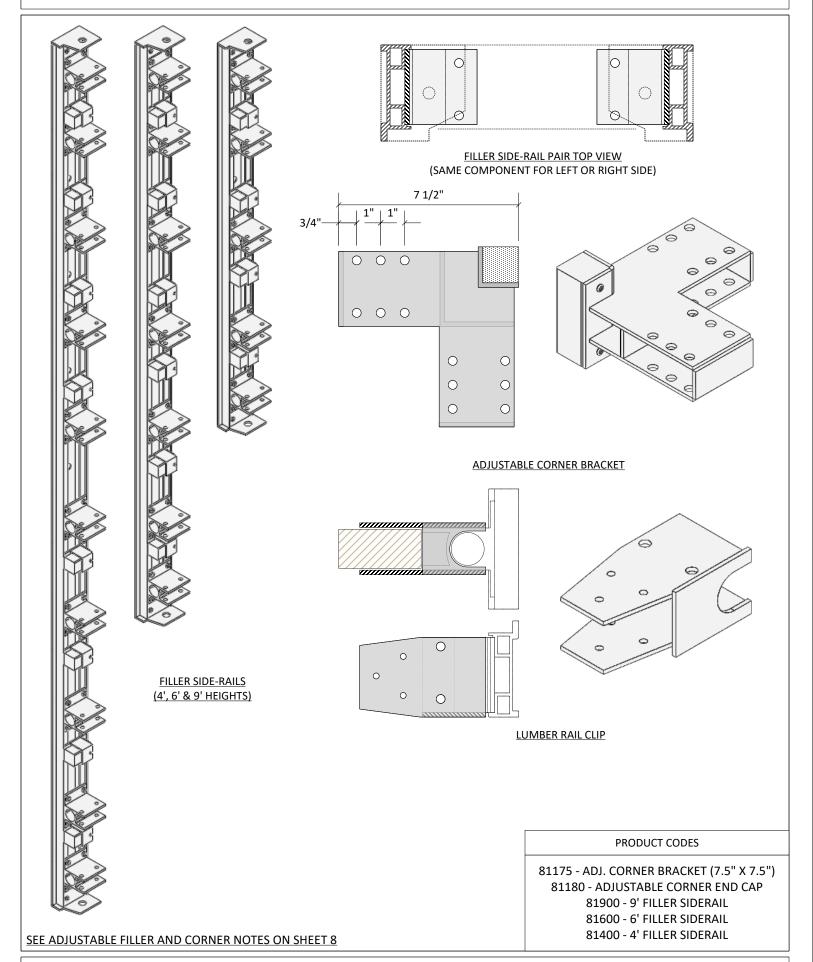
ALLFORM COMPONENT HANDBOOK - PART 1 FORMING 29" - 43" 14" - 28" 8" - 13" ADD END FITTING @ TIE > 1'-0" 0 0 0 9'-0" 0 1'-0" 0 0 0 1'-0" <u>TYPE - 6 OR 7</u> <u>TYPE - 3, 4 OR 5</u> **TYPE - 1 OR 2**

SEE ADJUSTABLE FILLER AND CORNER NOTES ON SHEET 8

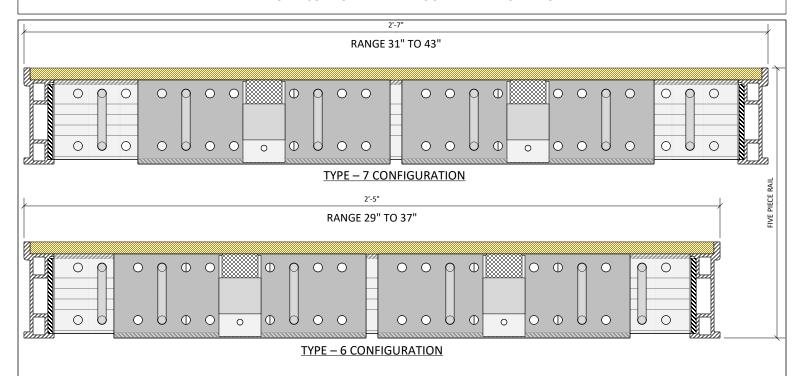
PRODUCT CODES

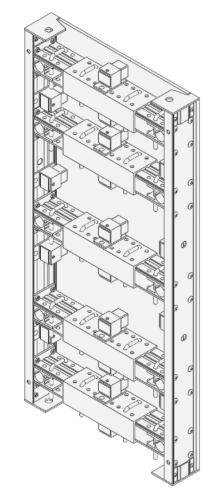
BFA900xx - 9FT X (xx)IN ADJUSTABLE FILLER

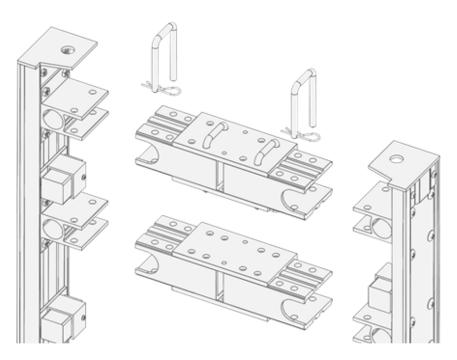




ALLFORM COMPONENT HANDBOOK - PART 1 FORMING 2'-4" **RANGE 20" TO 28"** 0 0 0 **O** O O 0 0 0 0 0 0 0 0 0 \bigcirc \bigcirc 0 0 TYPE - 5 CONFIGURATION (PRIMARY) 1'-10" **RANGE 18" TO 22"** THREE PIECE RAIL 0 0 0 0 \oplus **TYPE – 4 CONFIGUATION** 1'-6" RANGE 14" TO 18" 0 \bigcirc \bigcirc 0 0 0 0 \bigcirc TYPE - 3 CONFIGURATION (PRIMARY) **ADD TIE-END FITTING ADD TIE-END FITTING** 1'-1" (IF NECESSARY) (IF NECESSARY) RANGE 11" TO 13" 0 ONE PIECE RAIL TYPE - 2 CONFIGURATION 10" **RANGE 8" TO 10"** 0 0 PRODUCT CODES 0 0 BFA400xx - 4FT X (xx)IN ADJUSTABLE FILLER **TYPE - 1 CONFIGURATION** BFA600xx - 6FT X (xx)IN ADJUSTABLE FILLER BFA900xx - 9FT X (xx)IN ADJUSTABLE FILLER SEE ADJUSTABLE FILLER AND CORNER NOTES ON SHEET 8







EXPLODED ADJUSTABLE FILLER ASSEMBLY

TYPICAL ADJUSTABLE FILLER ASSEMBLY

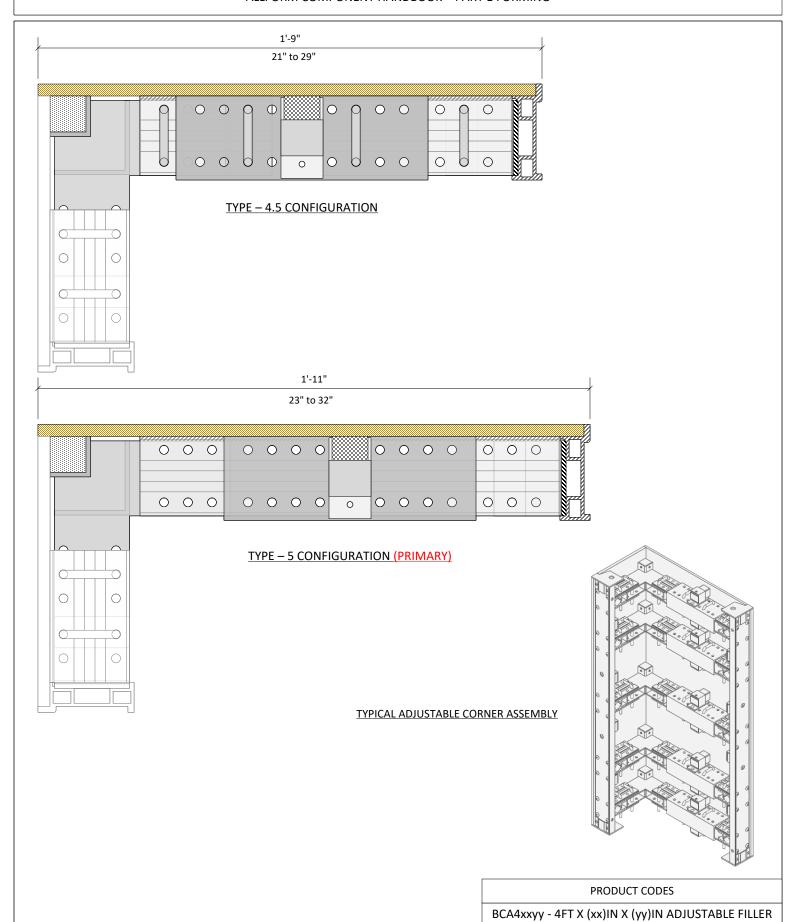
SEE ADJUSTABLE FILLER AND CORNER NOTES ON SHEET 8

PRODUCT CODES

BFA400xx - 4FT X (xx)IN ADJUSTABLE FILLER BFA600xx - 6FT X (xx)IN ADJUSTABLE FILLER BFA900xx - 9FT X (xx)IN ADJUSTABLE FILLER

(1) PIECE RAIL	(1) PIECE RAIL	(3) PIECE RAIL	(3) PIECE RAIL	(3) PIECE RAIL	(5) PIECE RAIL	(5) PIECE RAIL
	TYPE #2				TYPE #6	TYPE #7
		TYPE #3	TYPE #4	TYPE #5	SIDERAIL	SIDERAIL
TYPE #1		(FACTORY ITEM)		(FACTORY ITEM)	5.5" INNER RAIL	8.5" INNER RAIL
	2 //2	SIDERAIL	SIDERAIL	SIDERAIL	10.5" OUTER RAIL	10.5" OUTER RAIL
-	-	5.5" INNER RAIL	5.5" INNER RAIL	8.5" INNER RAIL	8.5" INNER RAIL	8.5" INNER RAIL
SIDERAIL	SIDERAIL	6.5" OUTER RAIL	10.5" OUTER RAIL	10.5" OUTER RAIL	10.5" OUTER RAIL	10.5" OUTER RAIL
5.5" INNER RAIL	8.5" INNER RAIL	5.5" INNER RAIL	5.5" INNER RAIL	8.5" INNER RAIL	5.5" INNER RAIL	8.5" INNER RAIL
SIDERAIL	SIDERAIL	SIDERAIL	SIDERAIL	SIDERAIL	SIDERAIL	SIDERAIL
FILLER FACING DIME	NSION:					
8"						
9" 10"						
	11"					
	12"					
	13"	14"				
		15"				
		16"				
		17"				
		18"	18" 19"			
			20"	20"		
			21"	21"		
			22"	22"		
				23" 24"		
				25"		
				26"		
				27"		
				28"	29"	
					30"	
					31"	31"
					32"	32"
					33" 34"	33" 34"
					35"	35"
					36"	36"
					37"	37"
						38"
						39" 40"
						41"
						42"
						43"





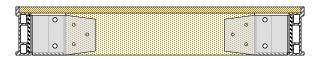
ADJUSTABLE CORNER - STANDARD ASSEMBLY #2 - SHEET 17 OF 72

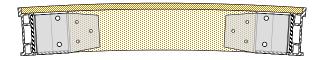
SEE ADJUSTABLE FILLER AND CORNER NOTES ON SHEET 8

BCA6xxyy - 6FT X (xx)IN X (yy)IN ADJUSTABLE FILLER

BCA9xxyy - 9FT X (xx)IN X (yy)IN ADJUSTABLE FILLER

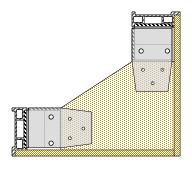
TYPE #1	TYPE #2	TYPE #3	TYPE #4	TYPE #4.5	TYPE #5
		(3) PIECE RAIL	(3) PIECE RAIL	(3) PIECE RAIL	(3) PIECE RAIL
(1) PIECE RAIL	(1) PIECE RAIL	½" FACING	½" FACING	½" FACING	½" FACING
		CORNER BRACKET	CORNER BRACKET	CORNER BRACKET	CORNER BRACKET
½" FACING	½" FACING	5.5" INNER RAIL	5.5" INNER RAIL	5.5" INNER RAIL	8.5" INNER RAIL
CORNER BRACKET	CORNER BRACKET	6.5" OUTER RAIL	10.5" OUTER RAIL	10.5" OUTER RAIL	10.5" OUTER RAIL
5.5" INNER RAIL	8.5" INNER RAIL	5.5" INNER RAIL	5.5" INNER RAIL	8.5" INNER RAIL	8.5" INNER RAIL
SIDERAIL	SIDERAIL	SIDERAIL	SIDERAIL	SIDERAIL	SIDERAIL
12"					
13"					
14"	14"				
	15"				
	16"				
	17"	17"			
		18"			
		19"			
		20"	20"		
		21"	21"	21"	
		22"	22"	22"	
			23"	23"	23"
			24"	24"	24"
			25"	25"	25"
			26"	26"	26"
				27"	27"
				28"	28"
				29"	29"
					30"
					31"
					32"
	R AND CORNER NOTES (NI CHEET O			





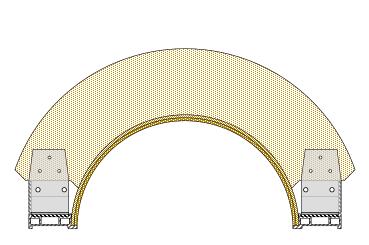
ODD LENGTH STRAIGHT

CIRCULAR OR SERPENTINE FORM

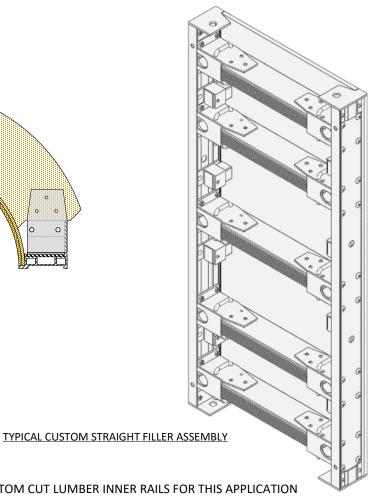


RIGHT ANGLE CORNER (EVEN OR UNEVEN LEGS)

CULVERT OR CHAMFER CORNER

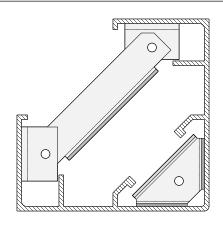


COLUMN OR BULLNOSE

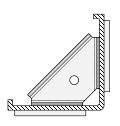


CUSTOM LUMBER FILLER USE:

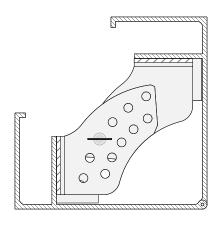
- USE FILLER SIDE RAILS AND LUMBER CLIPS WITH CUSTOM CUT LUMBER INNER RAILS FOR THIS APPLICATION
- LUMBER RAIL SIZE AND SHAPE BASED ON PROJECT DIMENSIONAL AND POUR RATE REQUIREMENTS
- OTHER SHAPES AVAIABLE BASED ON PROJECT REQUIREMENTS
- CONSULT ENGINEERING FOR THE LOAD RATING OF CUSTOM FILLERS



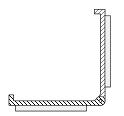
TOP VIEW - 8"X8" 90 DEGREE **INSIDE CORNER**



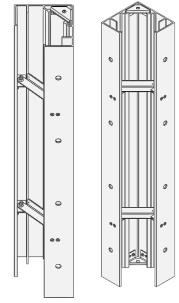
TOP VIEW - 90 DEGREE OUTSIDE CORNER



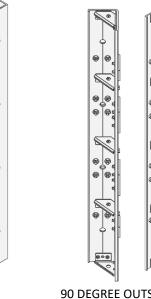
TOP VIEW - 8"X8" VARIABLE **ANGLE INSIDE CORNER**



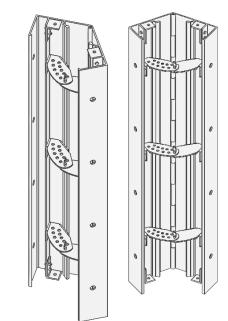
TOP VIEW - VARIABLE ANGLE OUTSIDE CORNER



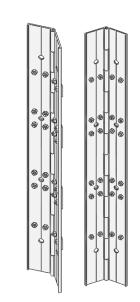
90 DEGREE INSIDE CORNER



90 DEGREE OUTSIDE CORNER



VARIABLE ANGLE INSIDE CORNER



VARIABLE ANGLE OUTSIDE CORNER

PRODUCT CODES

83908 - 9' X 8" RIGHT ANGLE INSIDE CORNERS 83608 - 6' X 8" RIGHT ANGLE INSIDE CORNERS

83408 - 4' X 8" RIGHT ANGLE INSIDE CORNERS

84908 - 9' RIGHT ANGLE OUTSIDE CORNER

84608 - 6' RIGHT ANGLE OUTSIDE CORNER

84408 - 4' RIGHT ANGLE OUTSIDE CORNER

85908 - 9' X 8" VARIABLE ANGLE INSIDE CORNERS

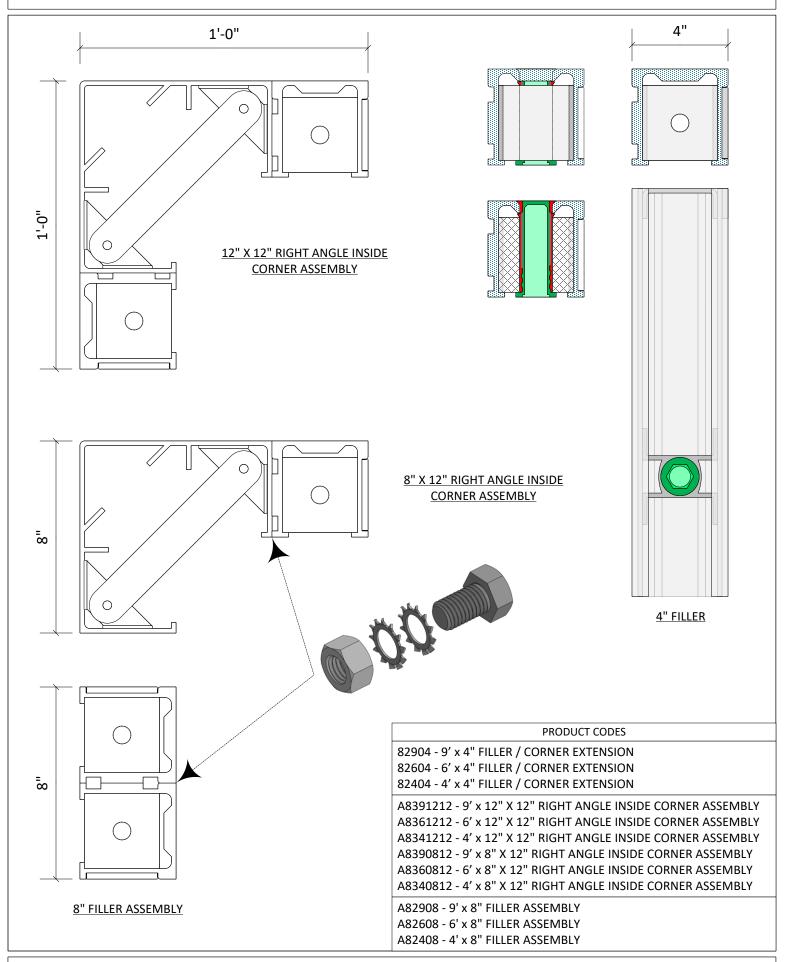
85608 - 6' X 8" VARIABLE ANGLE INSIDE CORNERS

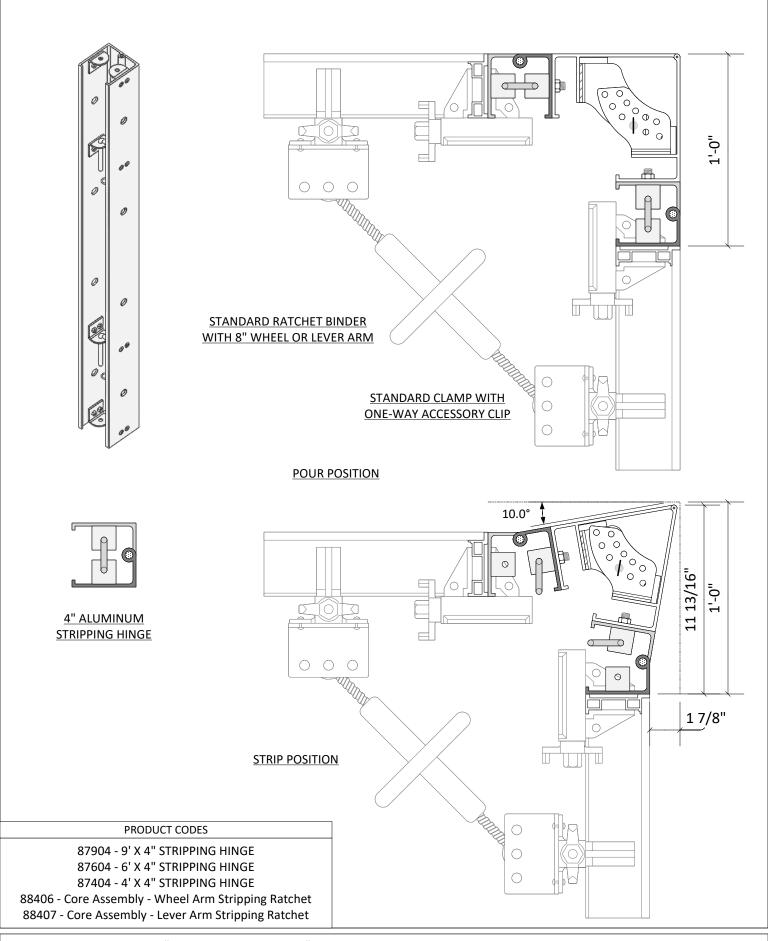
85408 - 4' X 8" VARIABLE ANGLE INSIDE CORNERS

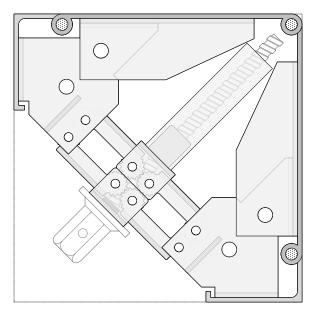
86908 - 9' VARIABLE ANGLE OUTSIDE CORNER

86608 - 6' VARIABLE ANGLE OUTSIDE CORNER

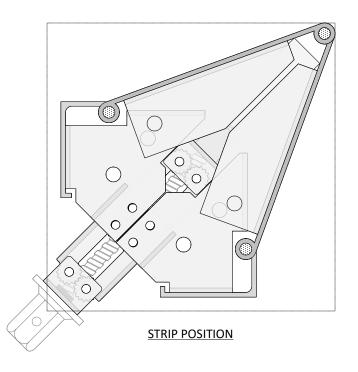
86408 - 4' VARIABLE ANGLE OUTSIDE CORNER

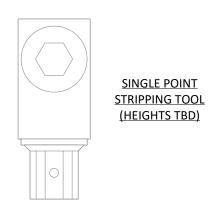


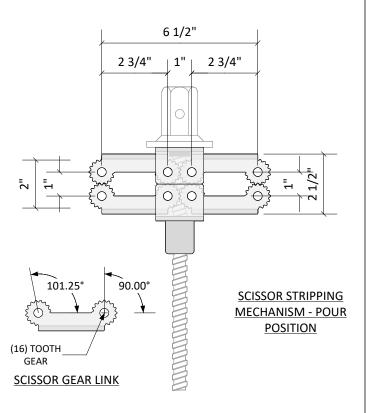




POUR POSITION

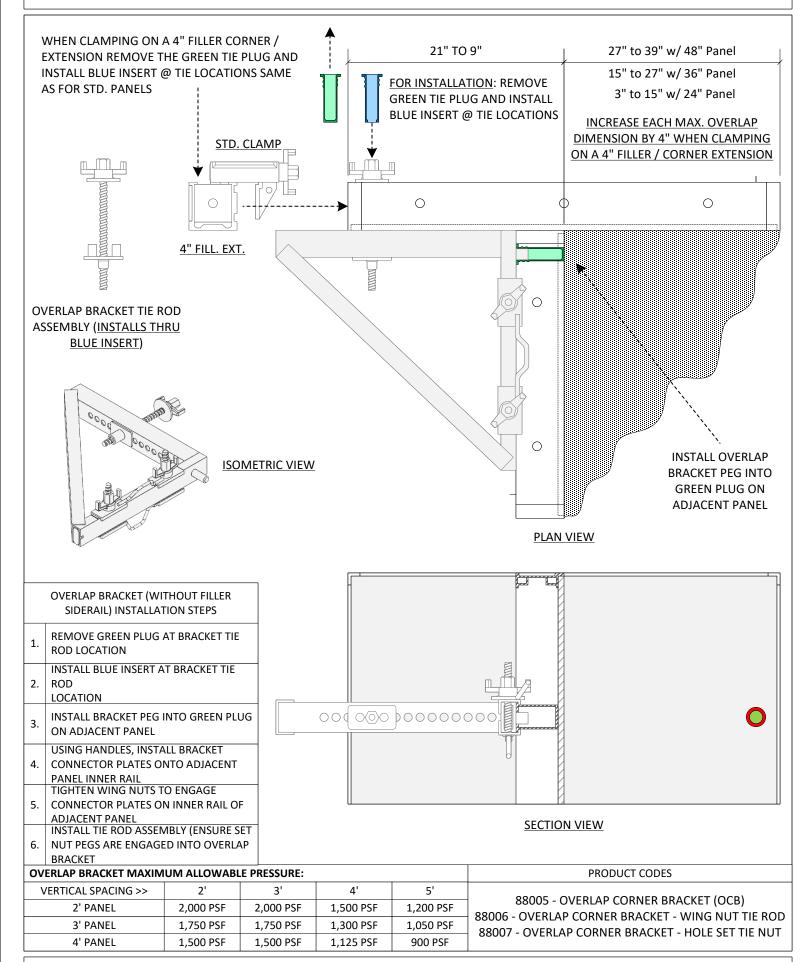


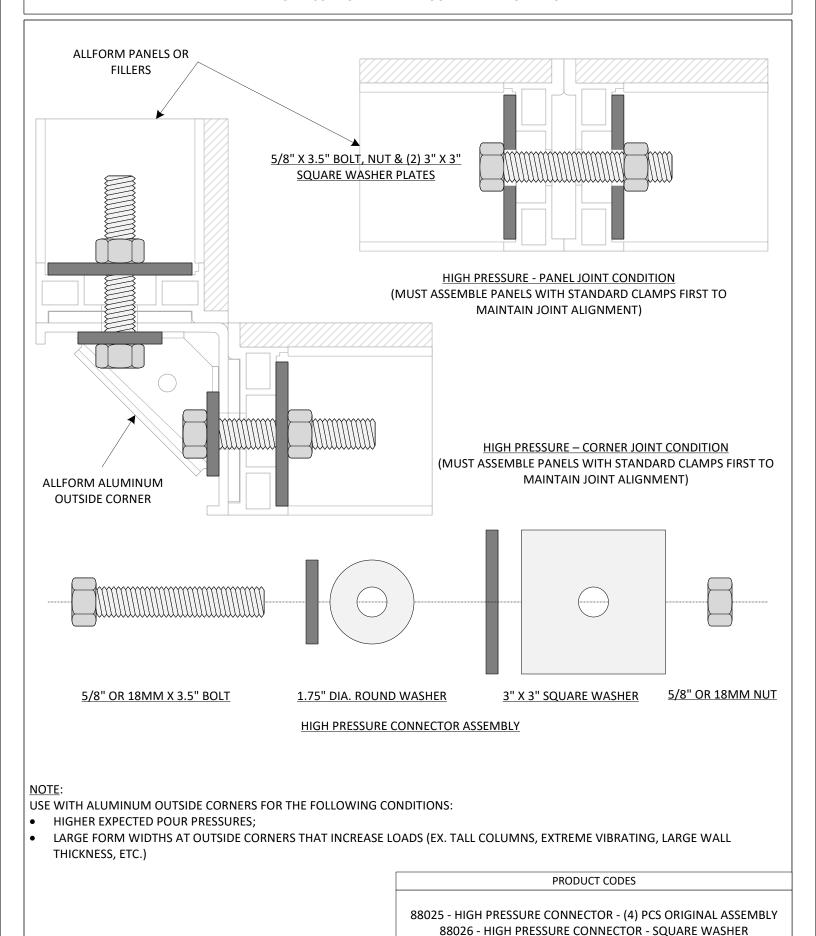


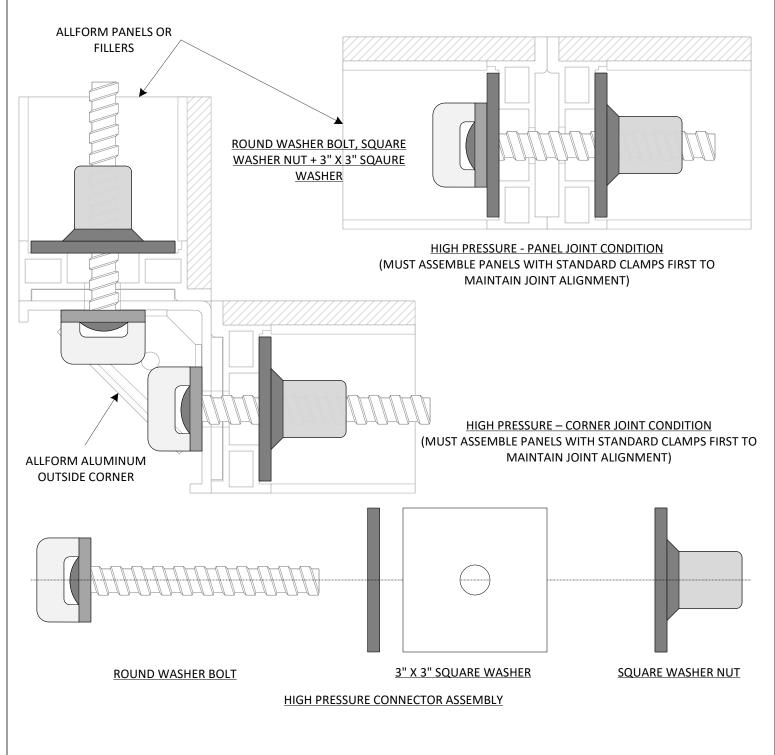


PRODUCT CODES

88504 - CORE ASSEMBLY - 4' STRIPPING CORNER 88506 - CORE ASSEMBLY - 6' STRIPPING CORNER 88509 - CORE ASSEMBLY - 9' STRIPPING CORNER







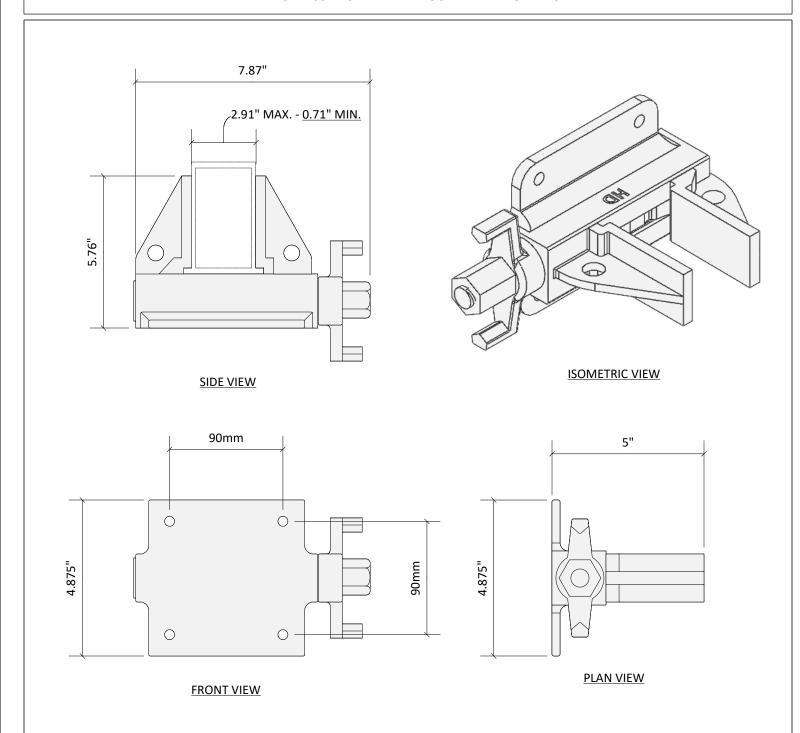
NOTE:

USE WITH ALUMINUM OUTSIDE CORNERS FOR THE FOLLOWING CONDITIONS:

- HIGHER EXPECTED POUR PRESSURES;
- LARGE FORM WIDTHS AT OUTSIDE CORNERS THAT INCREASE LOADS (EX. TALL COLUMNS, EXTREME VIBRATING, LARGE WALL THICKNESS, ETC.)

PRODUCT CODES

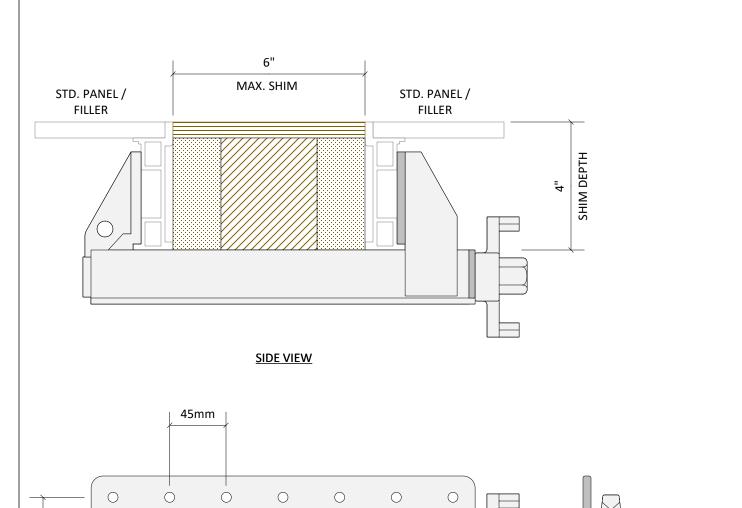
88023 - HIGH PRESSURE CONNECTOR - BOLT W/ ROUND WASHER 88024 - HIGH PRESSURE CONNECTOR - SQUARE WASHER W/ FERRULE 88026 - HIGH PRESSURE CONNECTOR - SQUARE WASHER



STANDARD CLAMP USE:

- USE TO CLAMP FORMWORK PANELS AND ADJUSTABLE FILLERS SIDE BY SIDE OR TOP TO BOTTOM
- ATTACHMENT: 1) PANEL INNER RAILS 2) PANELS AND FILLER SIDERAIL PAIRS 3)SIDERAIL & STD. 2X4 (ALL LUMBER FILLERS)
- USE AS A MULTI-FUNCTION ACCESSORY CONNECTOR BY PAIRING WITH ACCESSORY CLIPS OR OTHER COMPONENTS. PAIRED
 ASSEMBLIES USED TO ATTACH PIPE BRACES, WALKWAY BRACKETS, ALIGNMENT BARS, LIFTING ASSEMBLIES, AS WELL AS OTHER USES
 FOR SUPPORT SYSTEMS AND SHORING APPLICATIONS
- STANDARD CLAMP SAFE WORKING LOAD UNIFORMLY PLACED PERPENDICULAR TO JAWS: 1) FIRST GENERATION CLAMP (NOT MARKED WITH HD) = 3,800; 2) SECOND GENERATION CLAMP (MARKED WITH HD) = 7,600LBS

PRODUCT CODE
88001 - STANDARD CLAMP



FRONT VIEW

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PLAN VIEW

NON-STANDARD CLAMP USE:

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• USE TO CLAMP FORMWORK PANELS OR FILLERS WITH UP TO A 6" WIDE SHIM BETWEEN THE SIDERAILS, ALSO CLAMP STANDARD PANELS AND FILLERS SIDE BY SIDE OR TOP TO BOTTOM WITHOUT SHIMS

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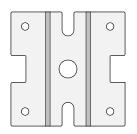
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- ATTACHMENT: 1) PANEL INNER RAILS 2) PANELS AND FILLER SIDERAIL PAIRS 3)SIDERAIL & STD. 2X4 (ALL LUMBER FILLERS)
- USE AS A MULTI-FUNCTION ACCESSORY CONNECTOR BY PAIRING WITH ACCESSORY CLIPS OR OTHER COMPONENTS. PAIRED
 ASSEMBLIES USED TO ATTACH PIPE BRACES, WALKWAY BRACKETS, ALIGNMENT BARS, LIFTING ASSEMBLIES, AS WELL AS OTHER USES
 FOR SUPPORT SYSTEMS AND SHORING APPLICATIONS
- NON-STANDARD CLAMP SAFE WORKING LOAD UNIFORMLY PLACED PERPENDICULAR TO JAWS = 7,600LBS

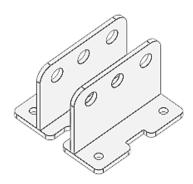
PRODUCT CODE
88000 - NON-STANDARD CLAMP (WOOD FILLER / SHIM)



SIDE VIEW

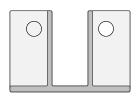


TOP VIEW



ONE-WAY CLIP:

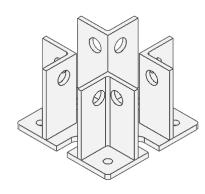
- USE AS PIPE BRACE ANCHOR OR HEAD WHEN SUPPORTING HEAVIER PIPE BRACE LOADS
- ALLOWABLE LOAD OF 10,000LBS
- ACTUAL CAPACITY BASED ON ACHOR BOLT SPECIFICATIONS (SEE MFG. RECOMMENDATIONS)
- COMPONENT ALSO USED FOR VARIOUS SHORING APPLICATIONS



SIDE VIEW

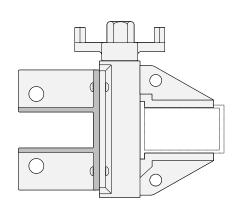


TOP VIEW

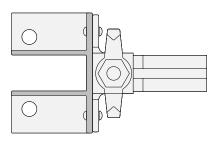


TWO-WAY CLIP:

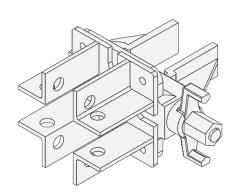
- USE AS PIPE BRACE ANCHOR OR
 HEAD WHEN SUPPORTING NORMAL
 PIPE BRACE LOADS
- ALLOWABLE LOAD OF 1,250LBS WHEN USING HOLE CLOSEST TO FORMWORK, OR 5,000 WHEN USING HOLE FURTHEST FROM FORMWORK
- ACTUAL CAPACITY BASED ON ACHOR BOLT SPECIFICATIONS (SEE MFG. RECOMMENDATIONS)



SIDE VIEW



TOP VIEW

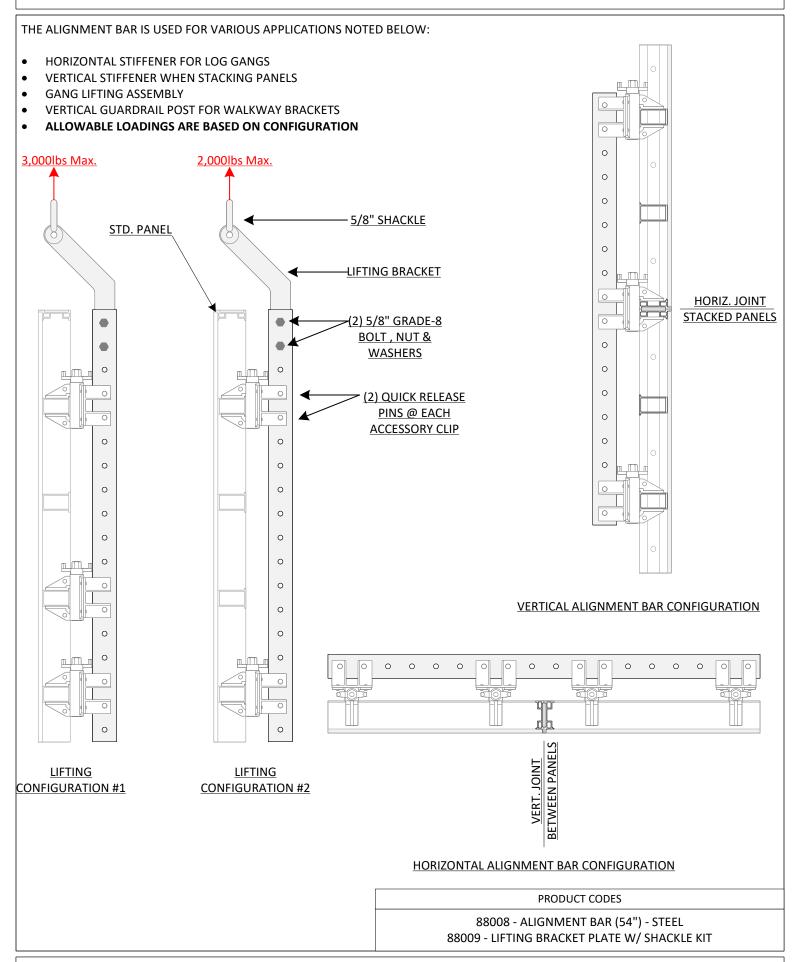


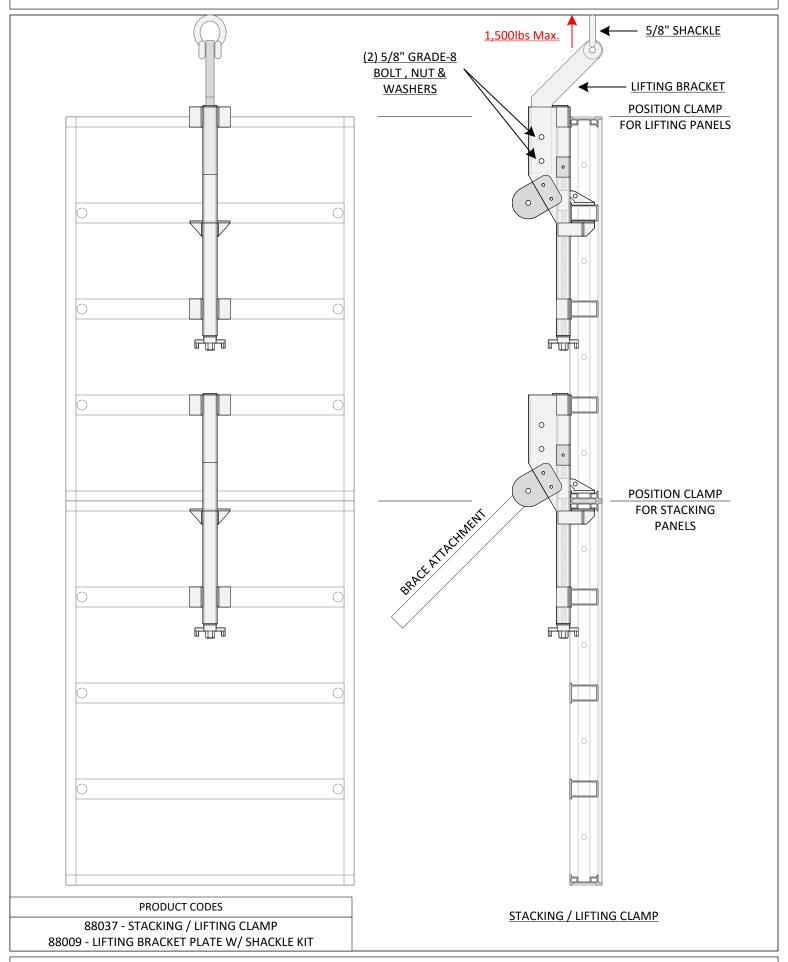
TWO-WAY CLIP / STD CLAMP:

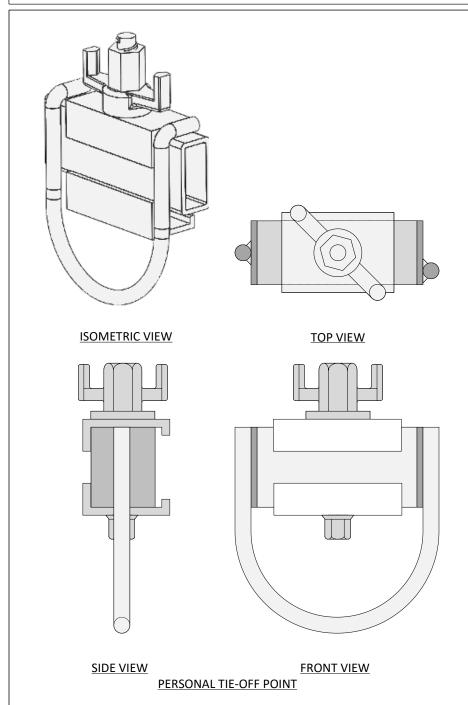
- PAIR WITH STD. CLAMP AND USE FOR PIPE BRACE HEAD CONNECTOR, ALIGNMENT BAR INSTALLATION OR LIFTING BAR APPLICATIONS
- CAPACITY BASED ON APPLICATION: PIPE BRACE HEAD OR ALIGNMENT BAR – 5,000LBS; LIFTING BAR – (SEE LIFTING DETAILS)

PRODUCT CODES

88002 - TWO-WAY ACCESSORY CLIP A88002 - STANDARD CLAMP + TWO-WAY ACCESSORY CLIP 88022 - ONE-WAY ACCESSORY CLIP WITH TETHERED PINS





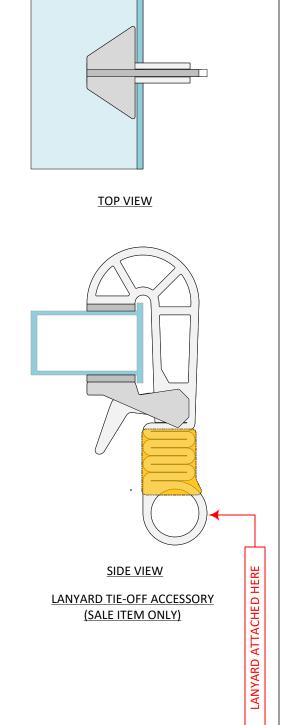




- PRE-ASSEMBLE TIE-POINTS ON GANGS PRIOR TO SETTING WALL FORMWORK INTO POSITION
- PLACE AT OPTIMAL INTERVALS VERTICALLY AND HORIZONTALLY TO ACCOMMODATE
 TIE-OFF POLICY. GENERALLY USED AT ALL WORKER ACCESS LOCATIONS, SUCH AS
 PLANKED WALKWAY BRACKETS OR OTHER ACCESSABLE LOCATIONS. ALSO USE TO
 ADD TIE-POINTS BELOW PLANKED LEVELS TO FACILITATE FORM TIE PLACEMENT
- CAPACITY MEETS OR EXCEEDS OSHA REQUIREMENTS FOR PERSONAL TIE-OFF POINT

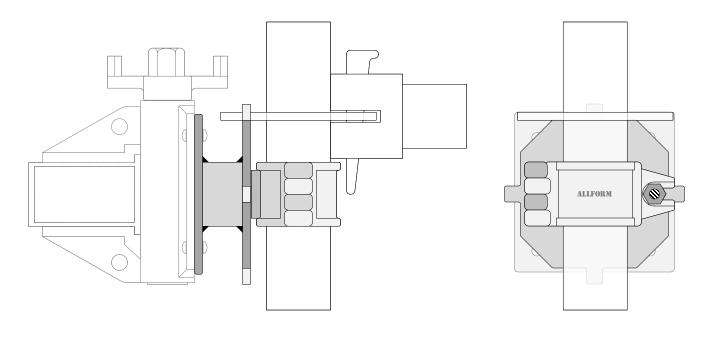
LANYARD TIE-OFF ACCESSORY USE:

- ATTACH TO EACH OF AN APPROVED DOUBLE HARNESS / LANYARD AND USE TO CLIMB FORMWORK, MAKING SURE ONE IS ATTACHED TO FORMWORK PANEL BEFORE MOVING THE OTHER
- CAPACITY MEETS OR EXCEEDS OSHA REQUIREMENTS FOR PERSONAL TIE-OFF POINT



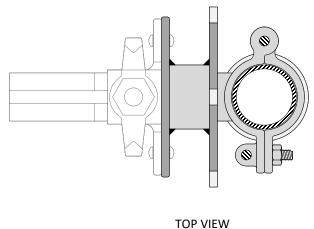
PRODUCT CODES

88003 - PERSONAL TIE-OFF BRACKET 89012 - LANYARD TIE-OFF ACCESSORY

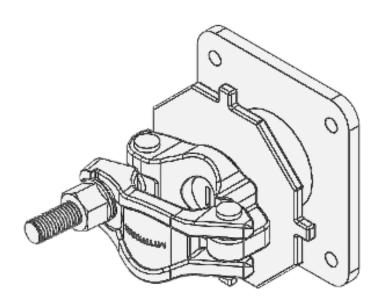












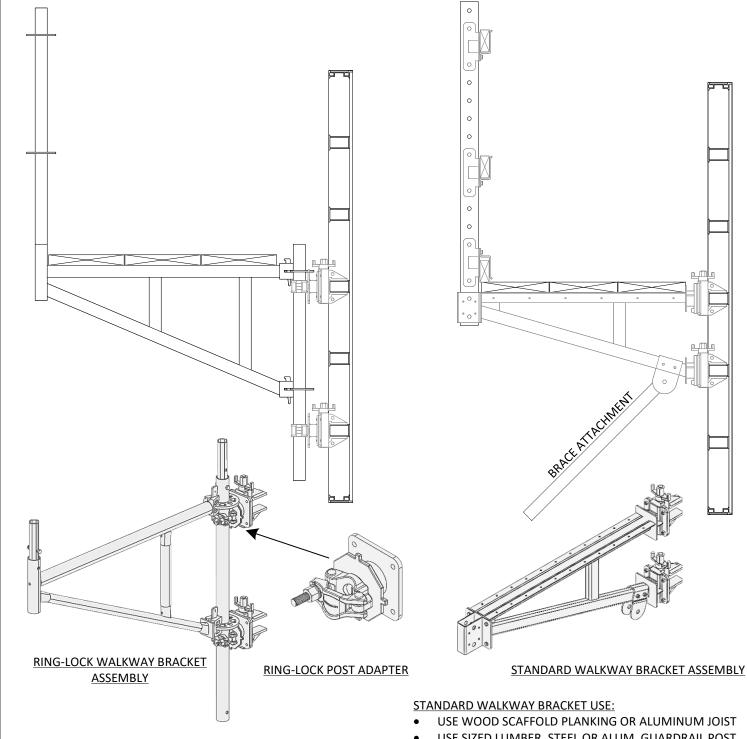
ISOMETRIC VIEW

RINCKLOCK POST ADAPTER USE:

- ATTACH TO STANDARD CLAMP TO MAKE FULL ASSEMBLY
- USE WITH RINGLOCK SCAFFOLDING TO ATTACH VERTICAL POST TO FORMWORK
- ATTACH PLANK BRACKETS OR BUILD FULL SCAFFOLD TO PROVIDE WORKER ACCESS AS REQUIRED
- THIS ACCESSORY MAINTAINS THE RINGLOCK SYSTEM'S CAPABILITY TO PROVIDE SAFE TIE-OFF POINTS FOR CRAFTSMEN SEE APPROVED TIE-OFF POINTS FOR THE RINGLOCK SYSTEM

PRODUCT CODES

88004 - SCAFFOLD BRACKET POST ADAPTOR (RING-LOCK) A88004 - STANDARD CLAMP + SCAFFOLD BKT POST ADAPTOR (RING-LOCK)



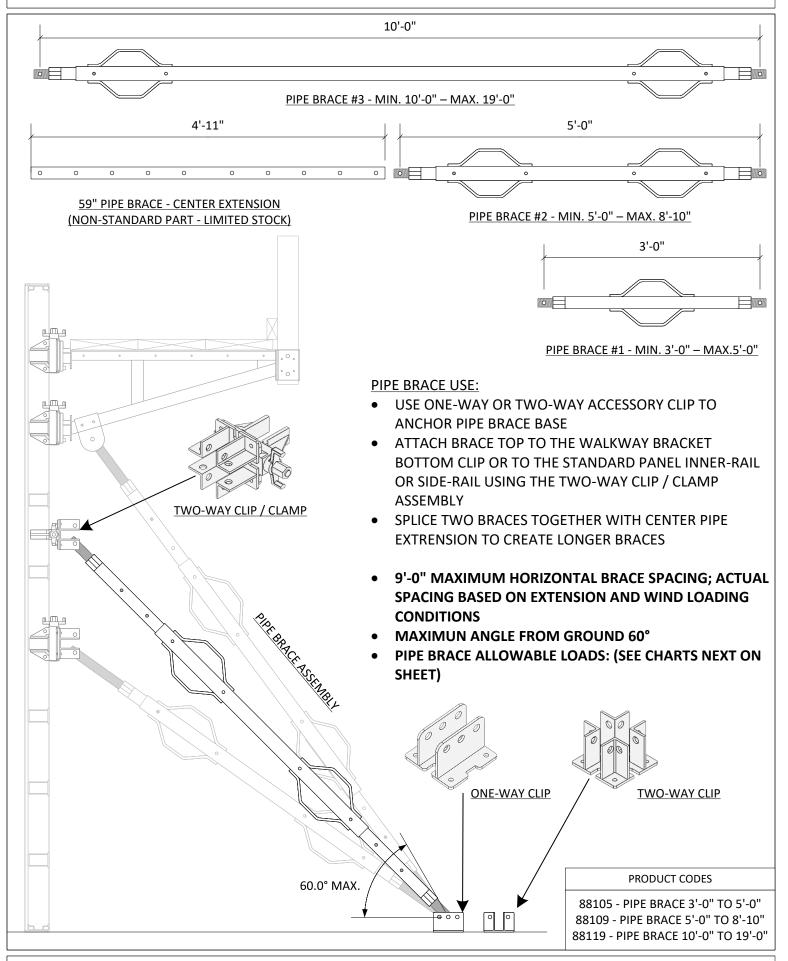
RINGLOCK SCAFFOLD BRACKET USE:

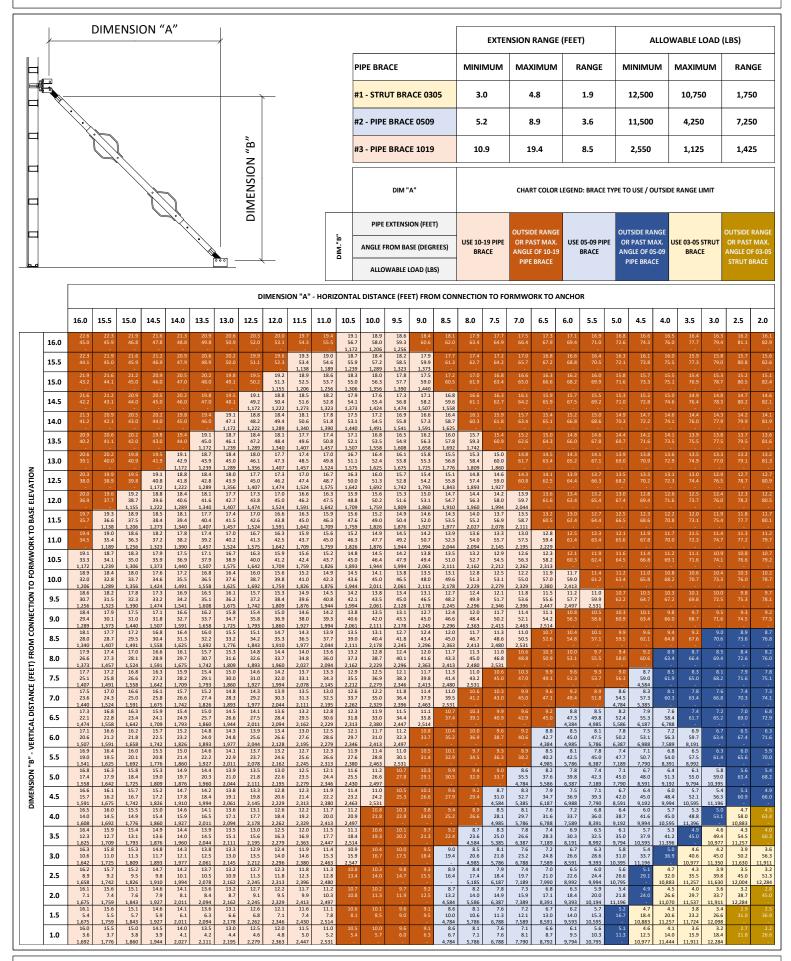
- USE STEEL OR WOOD SCAFFOLD PLANKING
- USE PIN-LOCK VERTICAL AS GUARDRAIL POST
- **USE PIN-LOCK HORIZONTALS AS GUARDRAILS**
- BUILD SCAFFOLD ACCESS WITH PLANK BRACKETS OR FULL SCAFFOLD TO PROVIDE WORKER ACCESS
- 10'-0" MAXIMUM SPACINGFOR 25PSF LOADING
- 8'-0" MAXIMUM SPACINGFOR 50PSF LOADING
- 6'-0" MAXIMUM SPACINGFOR 75PSF LOADING

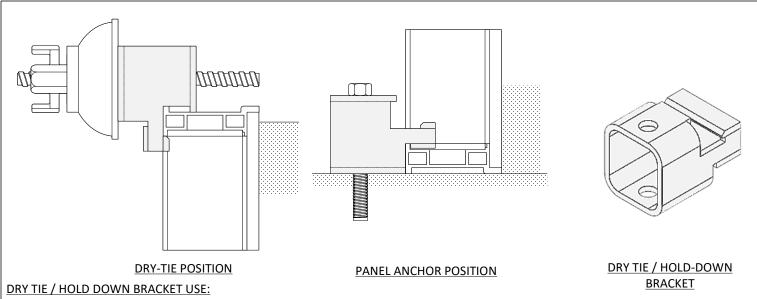
- USE SIZED LUMBER, STEEL OR ALUM. GUARDRAIL POST
- USE SIZED LUMBER OR SHORING LEDGERS AS GUARDRAILS
- COMPONENT INCLUDES FEATURE FOR PIPE BRACE **ATTACHMENT**
- 10'-0" MAXIMUM SPACINGFOR 25PSF LOADING
- 8'-0" MAXIMUM SPACINGFOR 50PSF LOADING
- 6'-0" MAXIMUM SPACINGFOR 75PSF LOADING

PRODUCT CODES

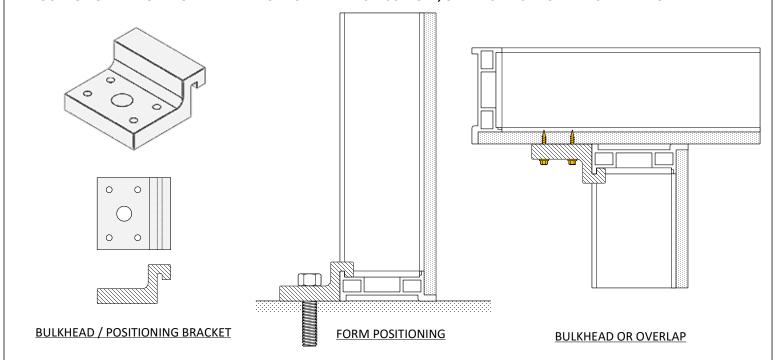
88015 - WALKWAY BRACKET W/ GUARDRAIL CLIP & STD. CLAMPS (REFERENCE RINGLOCK SYSTEM FOR PART IDENTIFICATION)







- USE TO POSITION BASE OF FORMWORK PANELS INTO DESIRED LOCATION
- ANCHOR FORMWORK BASE TO SUPPORT UPLIFT LOADS WITH 5/8" ABCHOR BOLT
- INSTALL ON THE TOP OF FORMWORK PANELS AS A DRY TIE ASSEMBLY USING A 15mm TIE ROD
- SAFE WORKING LOAD 18,000 LBS; ACTUAL LOAD BASED ON ANCHOR SPECIFICATIONS; OR CAPACITY OF SIDERAIL BASED ON THE LOCATION OF THE HOLD DOWN IN RELATION TO THE VERTICAL SUPPORT; OR THE CAPACITY OF THE 15MM TIE ROD

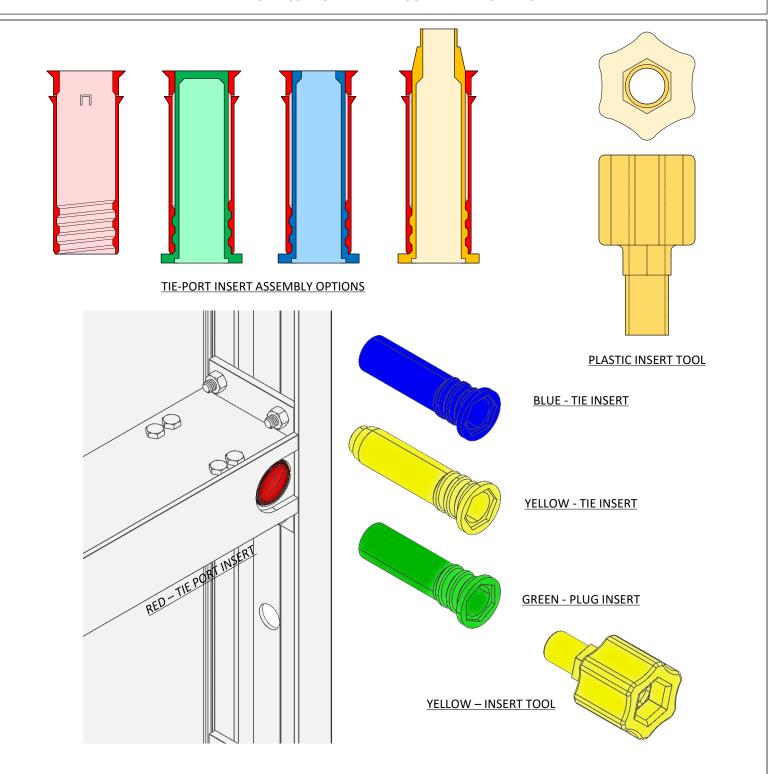


BULKHEAD / POSITIONING CLIP USE:

- USE TO POSITION THE BASE OF FORMWORK PANELS INTO DESIRED LOCATION
- ANCHOR FORMWORK BASE TO SUPPORT UPLIFT LOADS WITH 5/8" ABCHOR BOLT
- ATTACH TO PANEL FACING WITH UP TO (4) ½" #10 SCREWS WHEN OVERLAPPING HORIZONTAL PANELS OR TO SECURE BULKHEAD
- SAFE WORKING LOAD = 8,500; ACTUAL LOAD BASED ON ANCHOR SPECIFICATIONS; OR CAPACITY OF SIDERAIL BASED ON THE LOCATION OF THE POSITIONING CLIP IN RELATION TO THE VERTICAL SUPPORT; OR CAPACITY OF #10 SCREWS TO ALKUS

PRODUCT CODES

88010 - HOLD DOWN / DRY TIE BRACKET 88016 - BULKHEAD / POSITIONING CLIP

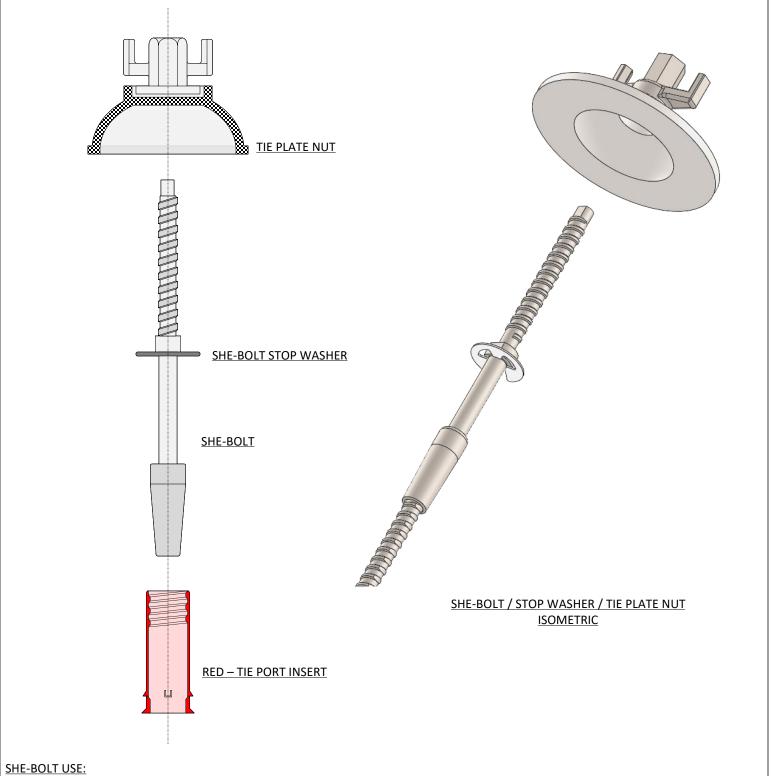


BULKHEAD / POSITIONING CLIP USE:

- RED TIE PORT INSTALLED INTO PANEL AND USED TO ACCEPT TIE PLUGS, TIE INSERTS AND SHE-BOLT (REPLACEABLE IF DAMAGED)
- GREEN TIE PLUG INSTALLED INTO RED TIE PORT WHEN TIE HOLES ARE NOT USED
- YELLOW TIE INSERT INSTALLED INTO RED TIE PORT WHEN THRU-ROD TIE AND PVC SLEEVES ARE USED
- BLUE TIE INSERT INSTALLED INTO RED TIE PORT TO ACCEPT OVERLAP BRACKET TIE ROD ASSEMBLY OR OTHER SPECIAL TIE REQUIRED

PRODUCT CODES

89001 - RED - PERMANENT INSERT (REPLACEMENT) 89002 - GREEN - TIE HOLD PLUG (REPLACEMENT) 89003 - YELLOW - CONE TIE INSERT (SALE ITEM) 89004 - BLUE - TIE INSERT (SALE ITEM) 89006 - INSERT TOOL (PLASTIC)



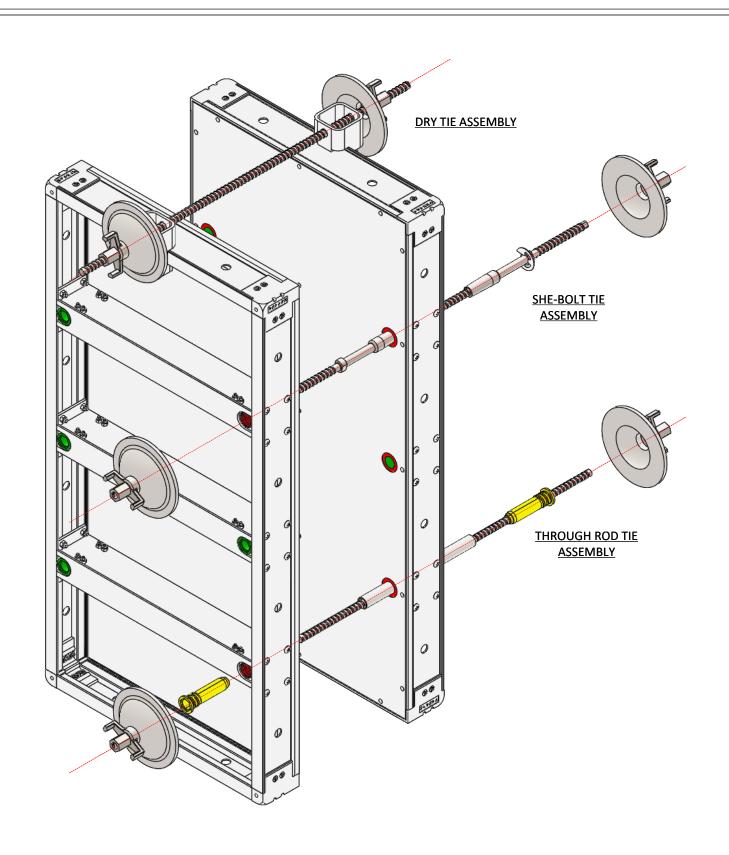
- USE WHEN THRU-HOLES ARE NOT PERMITTED IN FINISHED WALL
- 15mm SHE-BOLT FITS INSIDE PERMENANT RED TIE PORT, ONCE GREEN TIE PLUG IS REMOVED
- 15mm INNER ROD REMAINS IN CONCRETE
- ADD WATERSTOP TO INNER ROD IF REQUIRED
- USER CAN PRE-ASSEMBLE TWO SHE-BOLTS + INNER ROD + STOP WASHER AND INSTALL FROM ONE SIDE OF FORMWORK; OPTIONALLY INSTALL SEPARATELY FROM EITHER SIDE OF WALL FORMWORK

• SAFE WORKING LOAD = 18,000 OR CAPACITY OF TIE ROD USED

PRODUCT CODES

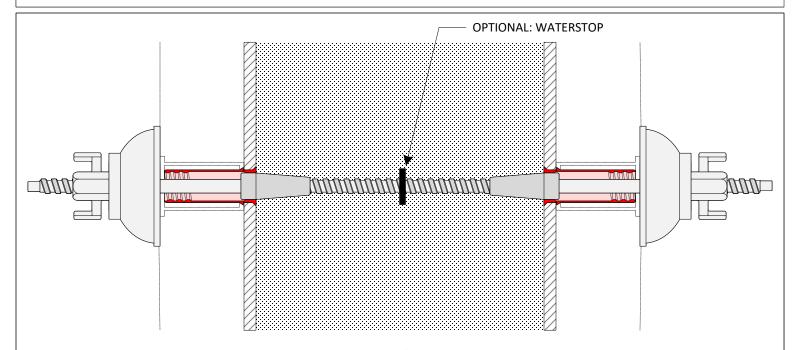
88011 - 15MM SHE BOLT 88012 - 15MM SHE BOLT - STOP WASHER 88013 - 15MM TIE PLATE NUT / WASHER

TIE PLATE NUT & SHE-BOLT TIE DETAILS - SHEET 39 OF 72



PRIMARY WALL TIE OPTIONS:

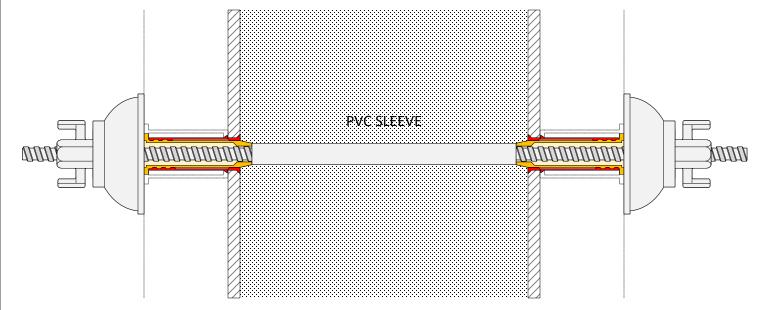
- (2) 15mm TIE PLATE NUTS / 15mm TIE ROD (<u>REUSABLE</u>) / PVC SLEEVE (<u>CONSUMABLE</u>) / REUSEABLE 15MM TIE ROD
- (2) 15mm TIE PLATE NUTS / (2) 15mm SHE-BOLTS / STOP WASHER / 15mm INNER TIE RODS (CONSUMABLE)
- (2) 15mm TIE PLATE NUTS / 15mm TIE ROD (REUSABLE) / (2) DRY TIE BRACKETS
- SAFE WORKING LOAD IS DETERMINED BY THE TIE ROD BEING USED WITH EACH ASSEMBLY



SHE-BOLT W/ INNER ROD

SHE-BOLT TIE:

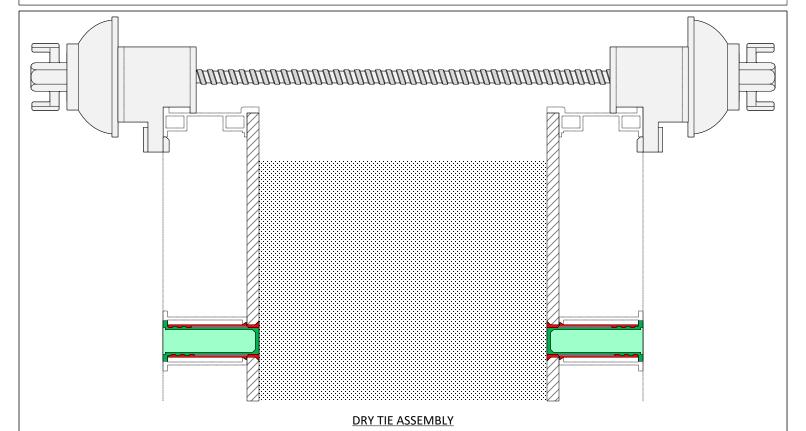
- USE ON WALL APPLICATIONS THAT REQUIRE THE INNER ROD TO REMAIN IN THE WALL OR IF A WATERSTOP SEAL IS REQUIRED
- 15mm INNER TIE ROD LENGTH = WALL THICKNESS LESS TWO INCHS
- INSTALLATION: 1) REMOVE GREEN TIE PLUG USING THE INSERT TOOL; 2) ASSEMBLE BOTH SHE-BOLTS TO INNER ROD AND ADD A STOP WASHER ON ONE END; 3) INSTALL COMPLETE ASSEMBLY FROM ONE SIDE OF THE WALL FORMS; 4) INSTALL TIE PLATE WASHERS TO SECURE TIE



THRU-ROD W/ YELLOW CONE INSERTS

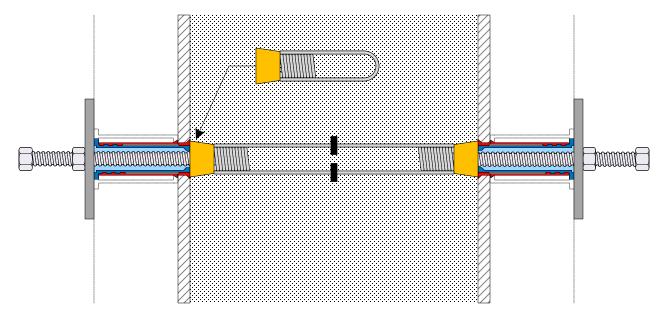
THROUGH ROD TIE:

- USE ON WALL APPLICATIONS THAT ALLOW A THROUGH HOLE TO REMAIN IN THE FINNISHED WALL
- MINIMUM 15mm TIE ROD LENGTH SHOULD BE NO LESS THAN THE WALL THICKNESS PLUS 20"
- CONSUMABLE PVC SLEEVE LENGTH = WALL THINKNESS LESS ONE-HALF INCH
- INSTALLATION: 1) REMOVE GREEN TIE PLUGS USING THE INSERT TOOL; 2) PRE-ASSEMBLED TIE-ROD, PVC SLEEVE, ONE YELLOW INSERT AND INSTALL THROUGH ONE SIDE OF THE WALL FORM THROUGH THE RED INSERT ON THE OPPOSITE SIDE; 3) ADD THE SECOND YELLOW INSERT ON THE OPPOSITE SIDE OF THE WALL FORM; 4) USE THE PLASTIC INSERT TOOL TO FIRMLY TIGHTEN BOTH YELLOW INSERTS INTO POSITION CENTERING THE PVC SLEEVE BETWEEN THE PANELS; 5) INSTALL TIE PLATE NUTS TO SECURE TIE



DRY TIE:

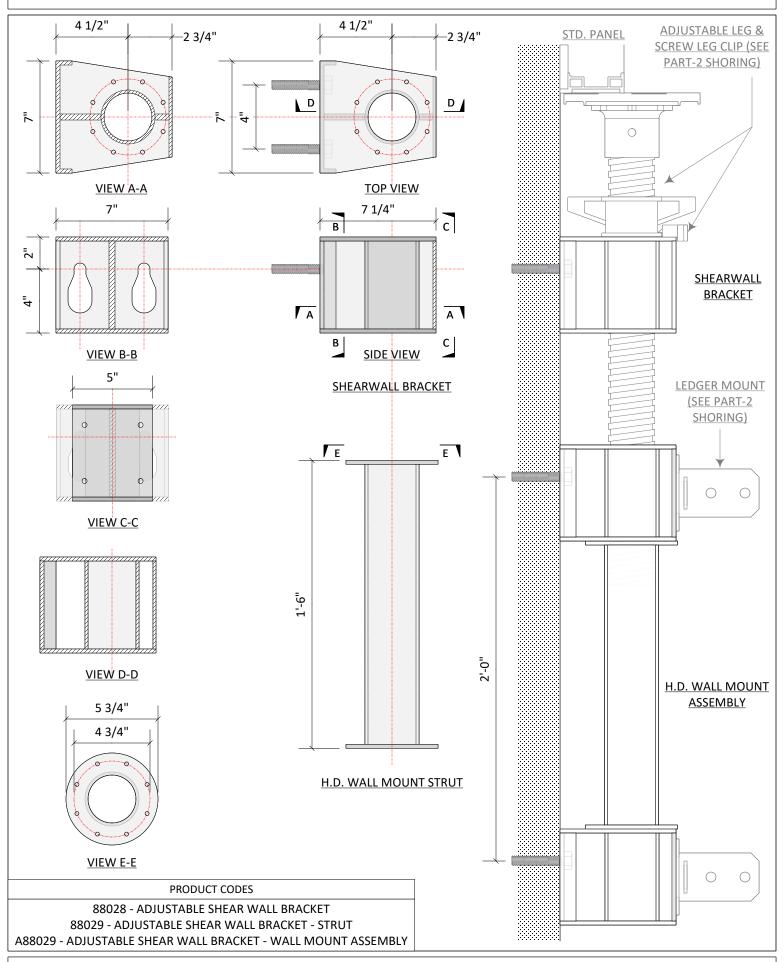
- USE FOR WALL TIE APPLICATIONS THAT CAN BE CONFIGURED TO USE A TIE ABOVE THE WALL FORM
- MINIMUM 15mm TIE ROD LENGTH SHOULD BE NO LESS THAN THE WALL THICKNESS PLUS 24"
- ADD A PVC SLEEVE BETWEEN DRY TIE BRACKETS TO PROVIDE FORMWORK SPACER
- INSTALLATION: 1) PLACE DRY TIE BRACKETS ON BOTH FORM PANELS ON OPPOSITE SIDES OF THE WALL; 2) INSERT THE TIE ROD THROUGH BOTH DRY TIE BRACKETS; 3) INSTALL TIE PLATE WASHERS TO SECURE TIE ASSEMBLY IN PLACE

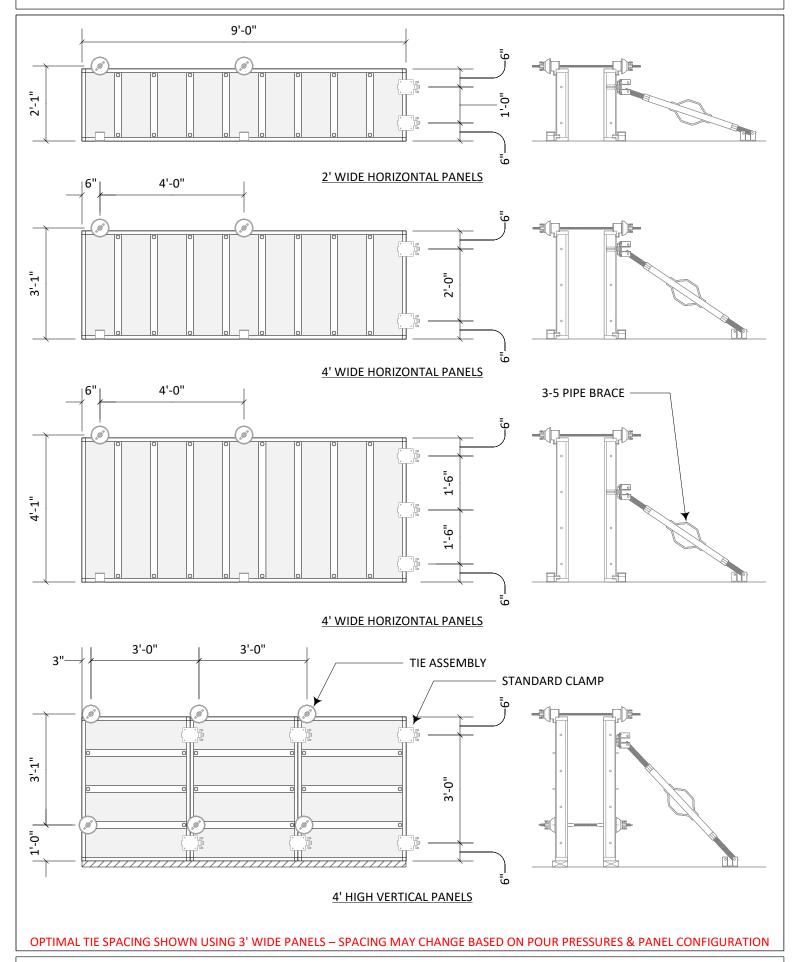


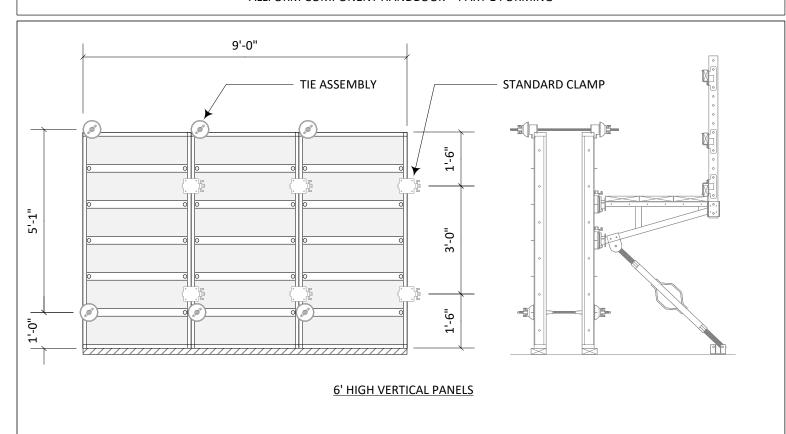
STANDARD COIL TIE OR ANCHOR PLACEMENT

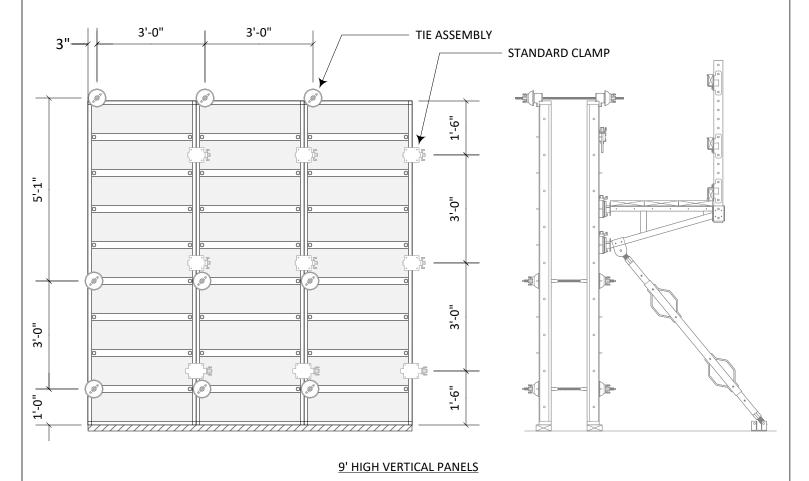
OTHER STANDARD TIE OR COIL ANCHOR:

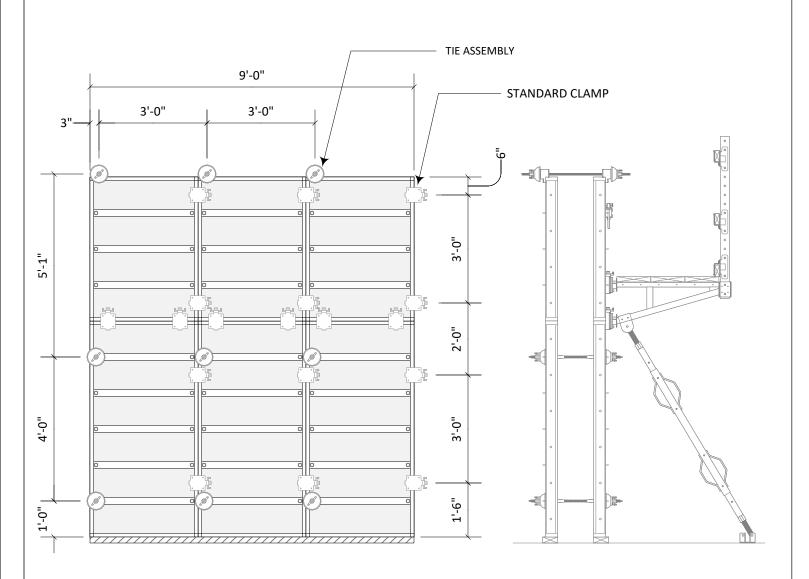
- USE ON WALL APPLICATIONS THAT REQUIRE SPECIAL TIE ASSEMBLIES OR EMBEDDED ANCHOR SLEEVES
- INSTALLATION: 1) REMOVE GREEN TIE PLUGS USING THE INSERT TOOL; 2) INSTALL BOTH BLUE TIE INSERTS ON EITHER SIDE OF THE WALL USING THE INSERT TOOL, MAKING SURE TO FIRMLY TIGHTEN THEM INTO POSITION; 3) INSTALL THE SPECIAL TIES PER THE SPECIFICATIONS FROM THE MANUFACTURER



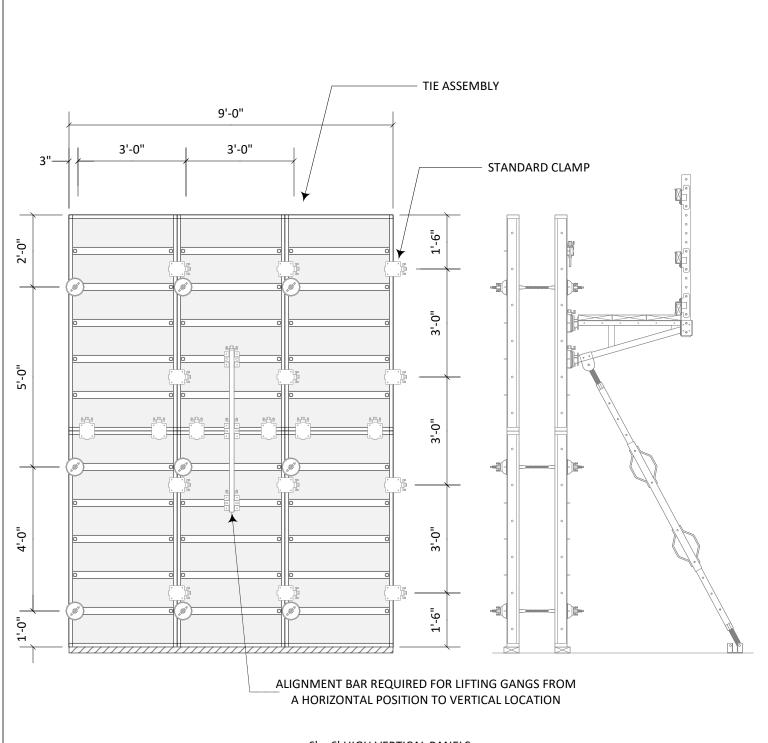




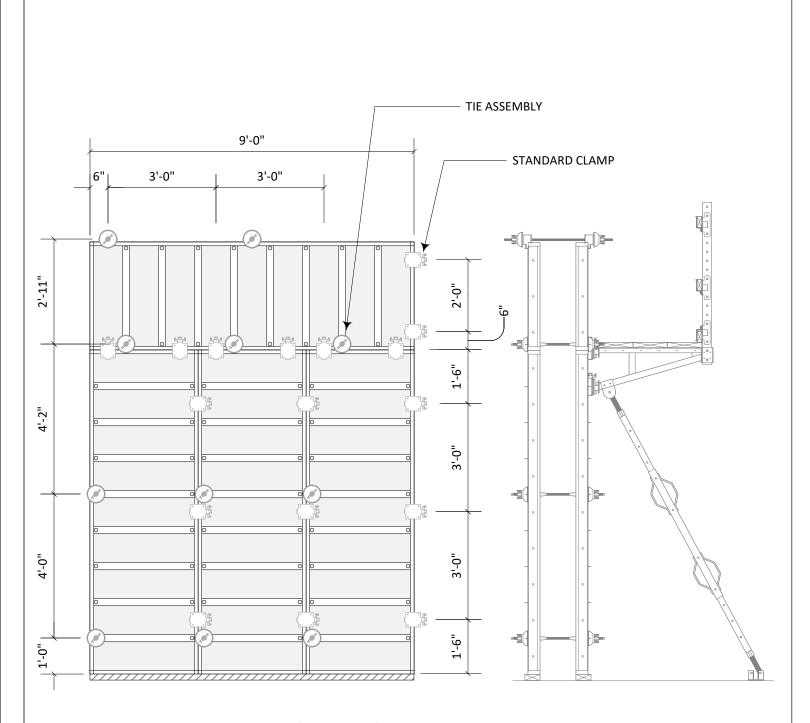




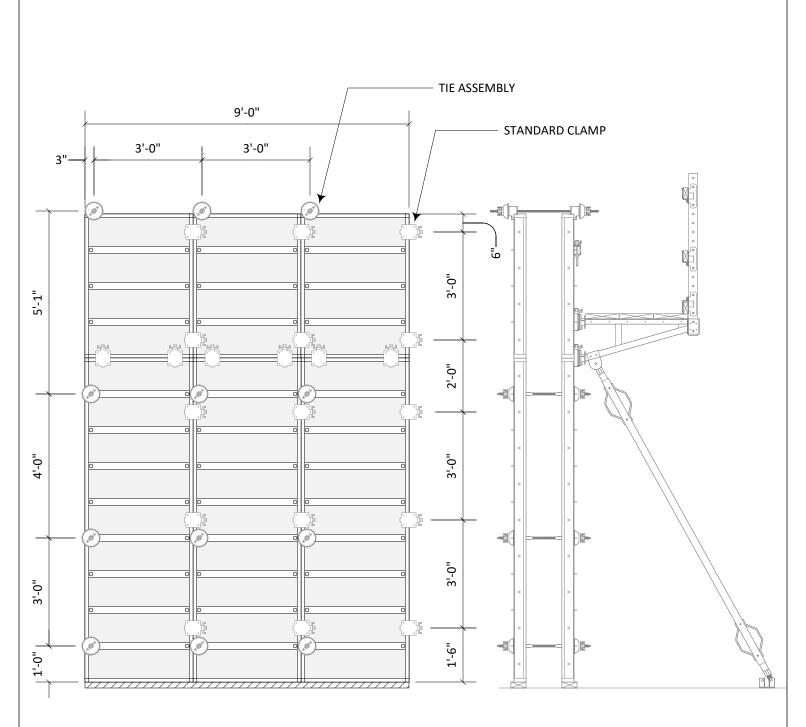
6' + 4' HIGH VERTICAL PANELS



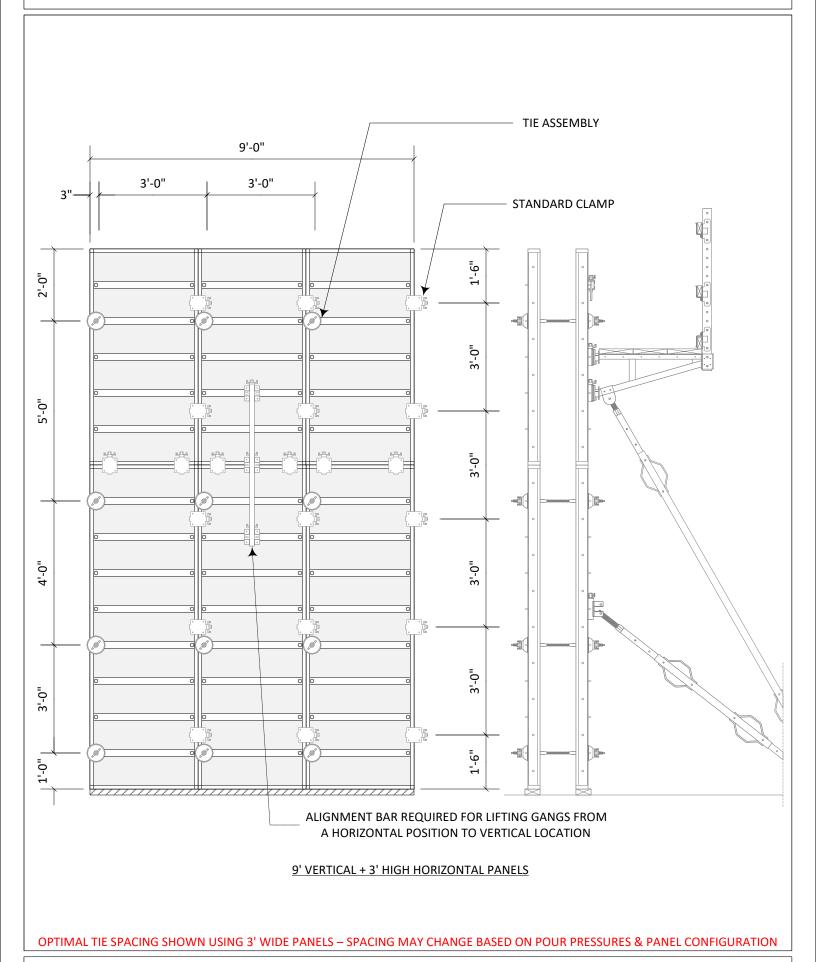
6' + 6' HIGH VERTICAL PANELS

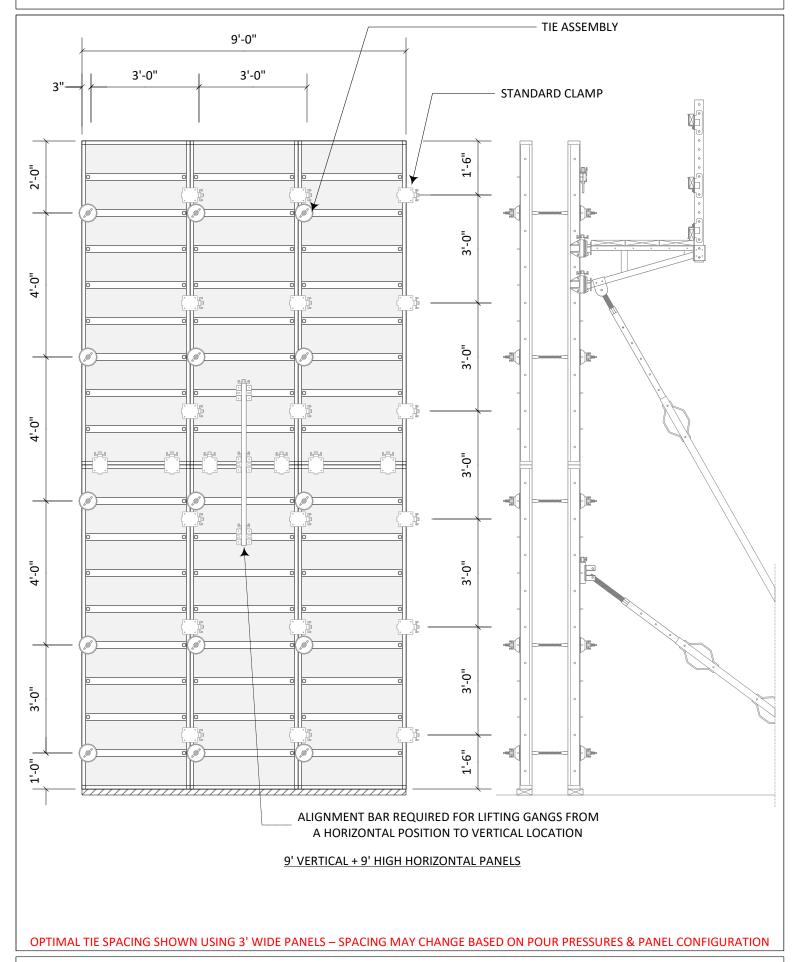


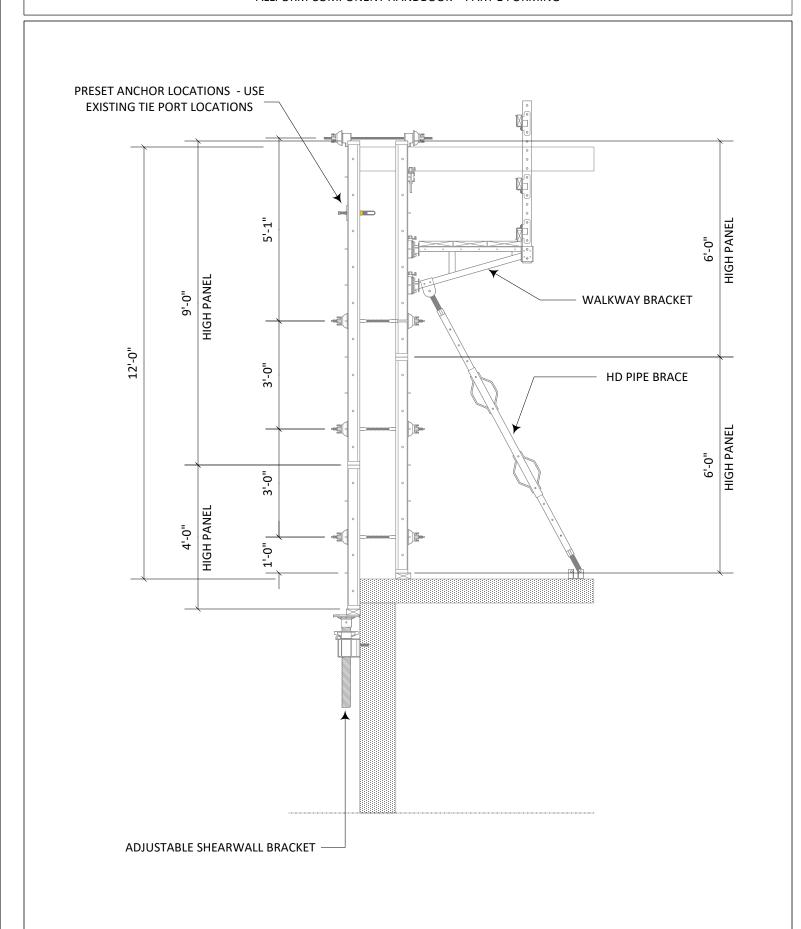
9' VERTICAL + 3' HIGH HORIZONTAL PANELS

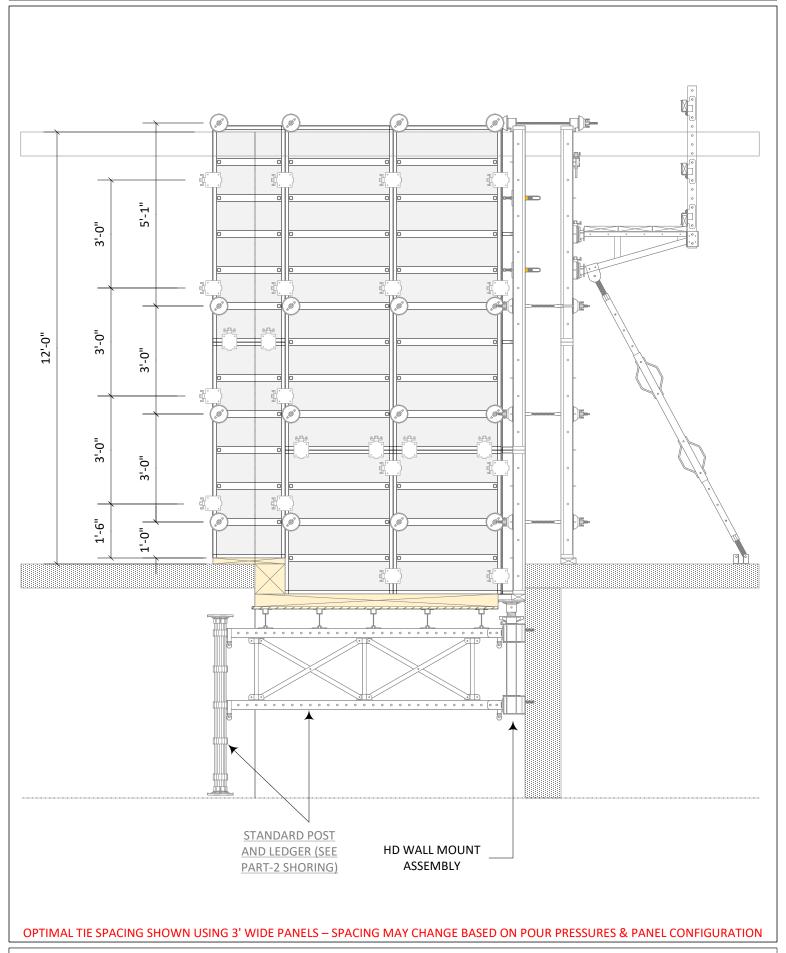


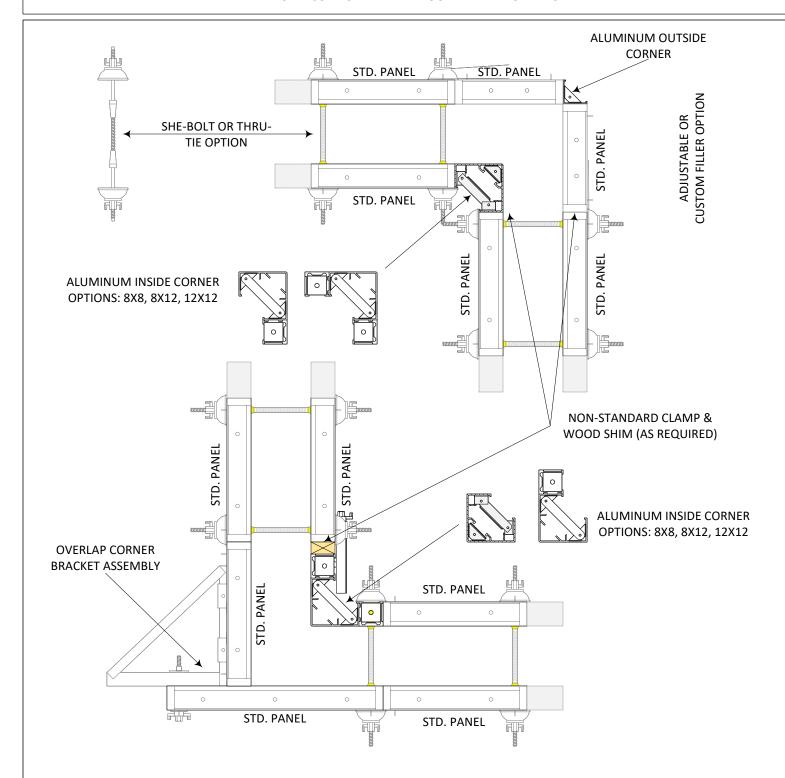
9' + 4' HIGH VERTICAL PANELS





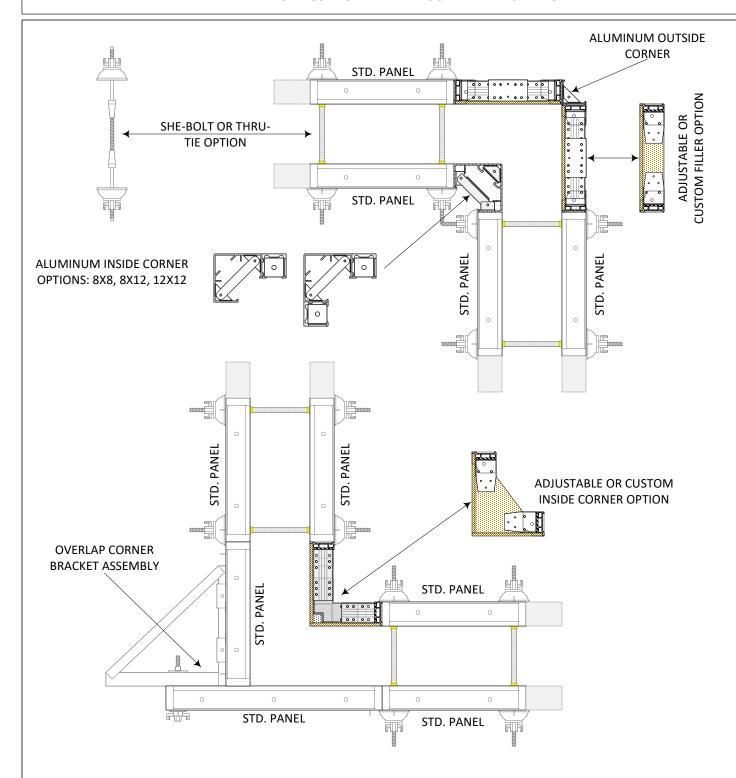






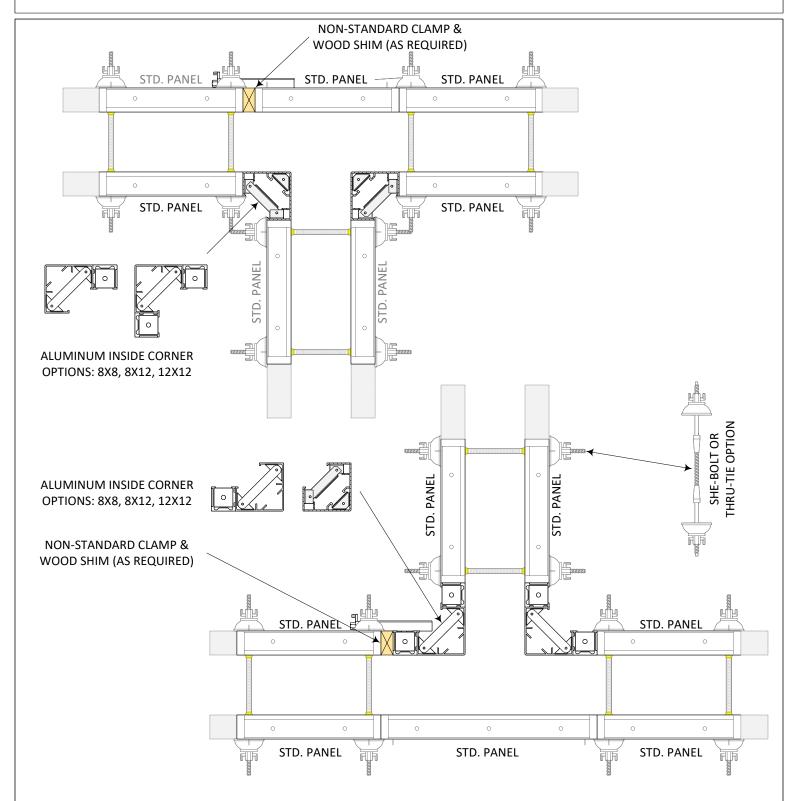
FORMING RIGHT ANGLE CORNERS WITH VARIOUS COMBINATIONS PANELS, FILLERS AND CORNERS:

- UTILIZE STANDARD PANELS, ALUMINUM INSIDE CORNERS, ADJUSTABLE / CUSTOM FILLERS OR CORNERS, OVERLAP CORNER BRACKETS AND / OR ALUMINUM OUTSIDE CORNERS TO ACHIEVE DIMENSIONAL REQUIREMENTS
- REMOVE GREEN TIE PLUG AND INSTALL BLUE TIE INSERT AT LOCATIONS REQUIRED FOR OVERLAP TIE ROD ASSEMBLY; IF THE FILLER
 SIDERAIL IS BEING USED FOR ADDITIONAL WIDTH, USE BOTH THE RED TIE PORT AND BLUE TIE INSERTS AT EACH OVERLAP TIE
 ASSEMBLY
- OVERLAP CORNER BRACKET, STANDARD CLAMP AND HIGH PRESSURE CORNER CONNECTOR SPACINGS ARE BASED ON POUR PRESSURE REQUIRMENTS; CONSULT ENGINEERING FOR DESIGN REQUIREMENTS



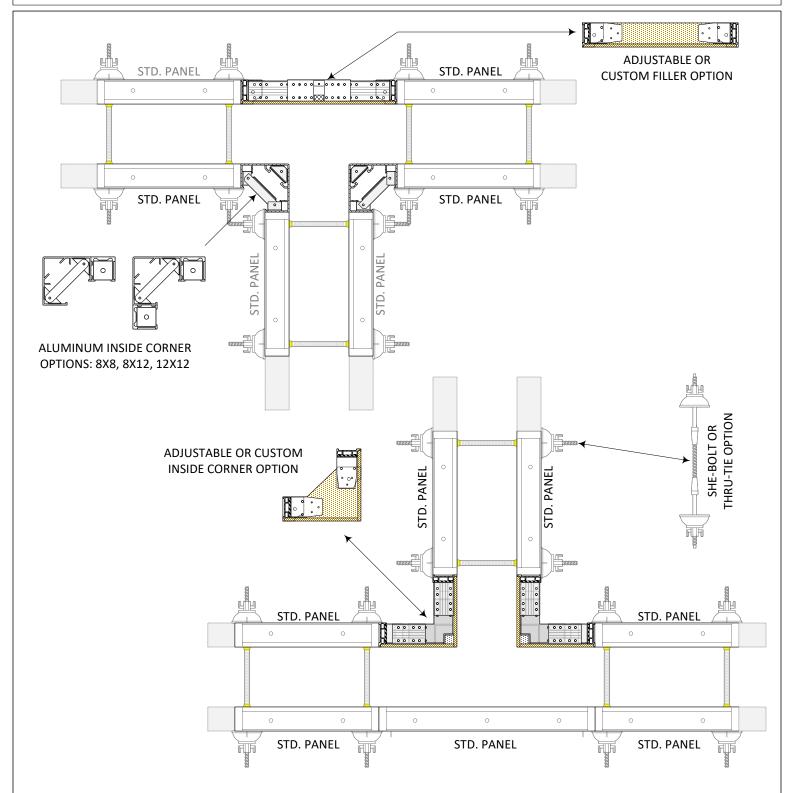
FORMING RIGHT ANGLE CORNERS WITH VARIOUS COMBINATIONS PANELS, FILLERS AND CORNERS:

- UTILIZE STANDARD PANELS, ALUMINUM INSIDE CORNERS, ADJUSTABLE / CUSTOM FILLERS OR CORNERS, OVERLAP CORNER BRACKETS AND / OR ALUMINUM OUTSIDE CORNERS TO ACHIEVE DIMENSIONAL REQUIREMENTS
- REMOVE GREEN TIE PLUG AND INSTALL BLUE TIE INSERT AT LOCATIONS REQUIRED FOR OVERLAP TIE ROD ASSEMBLY; IF THE FILLER SIDERAIL IS BEING USED FOR ADDITIONAL WIDTH, USE BOTH THE RED TIE PORT AND BLUE TIE INSERTS AT EACH OVERLAP TIE ASSEMBLY
- OVERLAP CORNER BRACKET, STANDARD CLAMP AND HIGH PRESSURE CORNER CONNECTOR SPACINGS ARE BASED ON POUR PRESSURE REQUIRMENTS; CONSULT ENGINEERING FOR DESIGN REQUIREMENTS



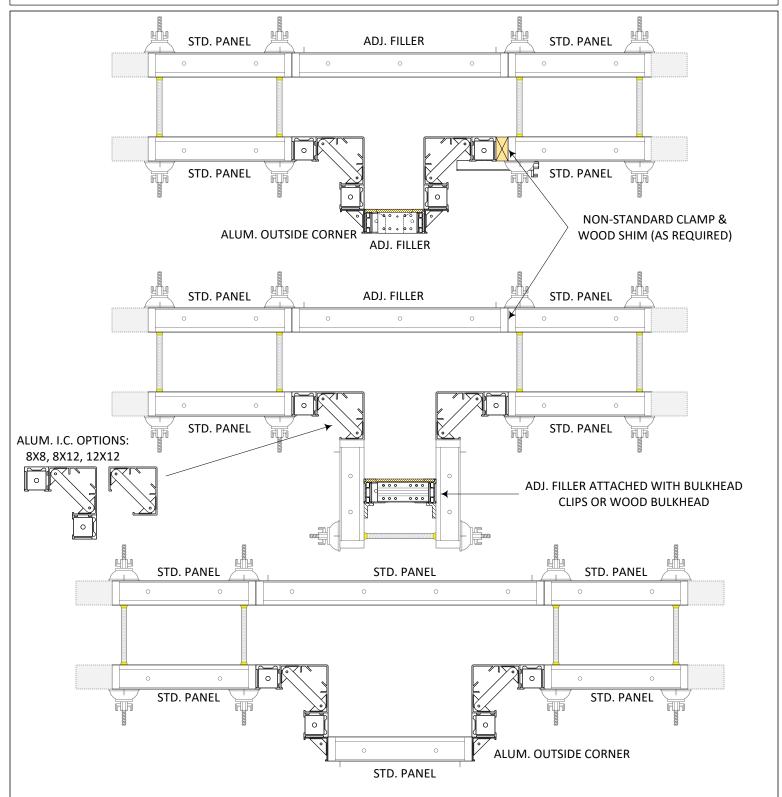
FORMING RIGHT ANGLE TEE WALLS WITH VARIOUS COMBINATIONS PANELS, FILLERS AND CORNERS:

- UTILIZE STANDARD PANELS, ALUMINUM INSIDE CORNERS, ADJUSTABLE FILLERS OR CORNERS, CUSTOM FILLERS OR CORNERS, OVERLAP CORNER BRACKETS AND ALUMINUM OUTSIDE CORNERS TO ACHIEVE DIMENSIONAL REQUIREMENTS
- REMOVE GREEN TIE PLUG AND INSTALL BLUE TIE INSERT AT LOCATIONS REQUIRED FOR OVERLAP TIE ROD ASSEMBLY; IF THE FILLER SIDERAIL IS BEING USED FOR ADDITIONAL WIDTH, USE BOTH THE RED TIE PORT AND BLUE TIE INSERTS AT EACH OVERLAP TIE ASSEMBLY
- OVERLAP CORNER BRACKET, STANDARD CLAMP AND HIGH PRESSURE CORNER CONNECTOR SPACINGS ARE BASED ON POUR
 PRESSURE REQUIRMENTS; CONSULT ENGINEERING FOR DESIGN REQUIREMENTS



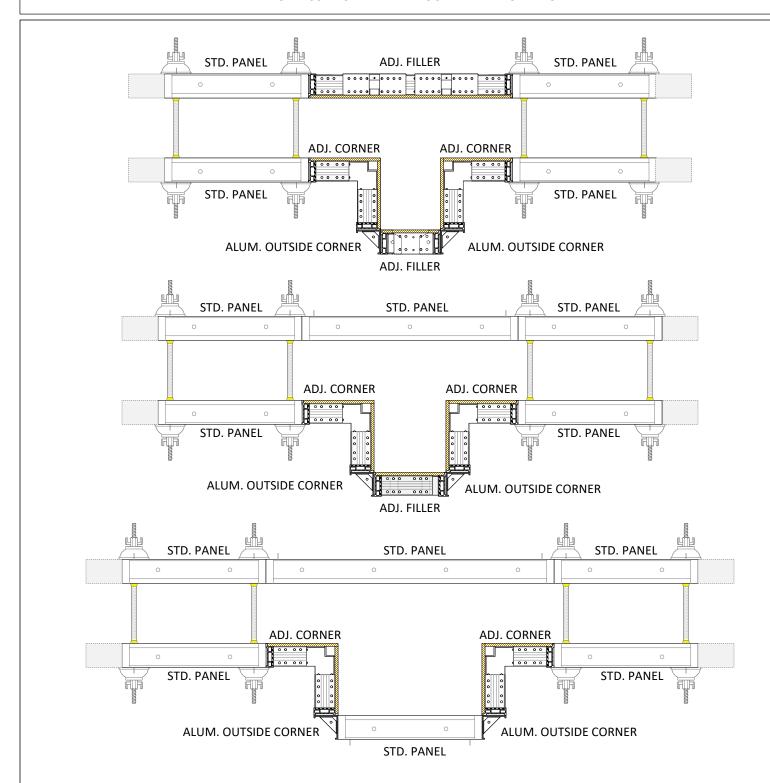
FORMING RIGHT ANGLE TEE WALLS WITH VARIOUS COMBINATIONS PANELS, FILLERS AND CORNERS:

- UTILIZE STANDARD PANELS, ALUMINUM INSIDE CORNERS, ADJUSTABLE FILLERS OR CORNERS, CUSTOM FILLERS OR CORNERS, OVERLAP CORNER BRACKETS AND ALUMINUM OUTSIDE CORNERS TO ACHIEVE DIMENSIONAL REQUIREMENTS
- REMOVE GREEN TIE PLUG AND INSTALL BLUE TIE INSERT AT LOCATIONS REQUIRED FOR OVERLAP TIE ROD ASSEMBLY; IF THE FILLER SIDERAIL IS BEING USED FOR ADDITIONAL WIDTH, USE BOTH THE RED TIE PORT AND BLUE TIE INSERTS AT EACH OVERLAP TIE ASSEMBLY
- OVERLAP CORNER BRACKET, STANDARD CLAMP AND HIGH PRESSURE CORNER CONNECTOR SPACINGS ARE BASED ON POUR PRESSURE REQUIRMENTS; CONSULT ENGINEERING FOR DESIGN REQUIREMENTS



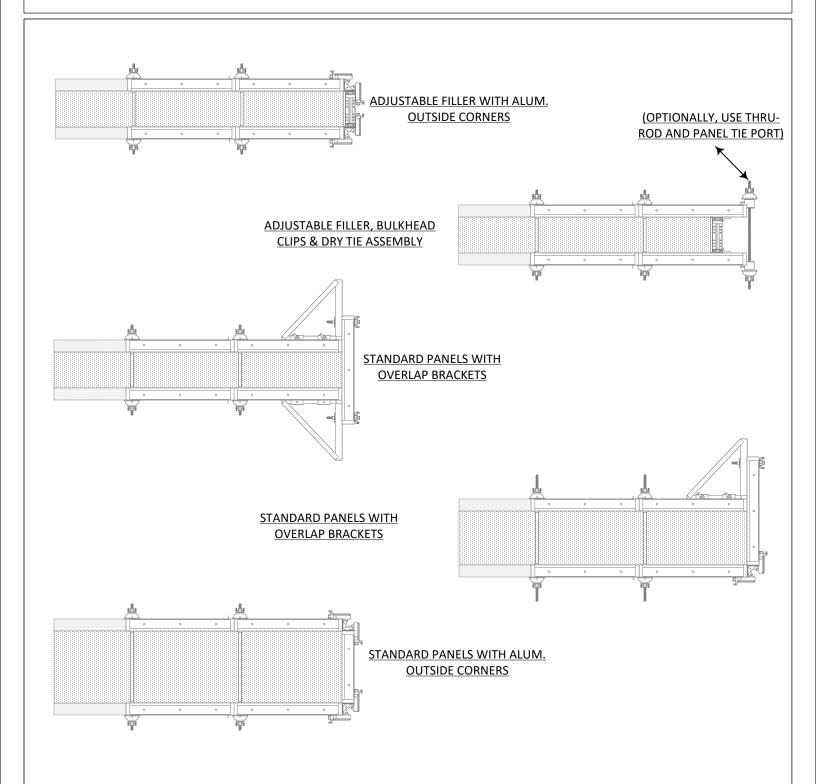
FORMING PILASTERS WITH VARIOUS COMBINATIONS PANELS, FILLERS AND CORNERS:

- UTILIZE STANDARD PANELS, ALUMINUM INSIDE CORNERS, ADJUSTABLE / CUSTOM FILLERS OR CORNERS, OVERLAP CORNER BRACKETS AND ALUMINUM OUTSIDE CORNERS TO ACHIEVE DIMENSIONAL REQUIREMENTS
- REMOVE GREEN TIE PLUG AND INSTALL BLUE TIE INSERT AT LOCATIONS REQUIRED FOR OVERLAP TIE ROD ASSEMBLY; IF THE FILLER
 SIDERAIL IS BEING USED FOR ADDITIONAL WIDTH, USE BOTH THE RED TIE PORT AND BLUE TIE INSERTS AT EACH OVERLAP TIE
 ASSEMBLY
- OVERLAP CORNER BRACKET, STANDARD CLAMP AND HIGH PRESSURE CORNER CONNECTOR SPACINGS ARE BASED ON POUR PRESSURE REQUIRMENTS; CONSULT ENGINEERING FOR DESIGN REQUIREMENTS



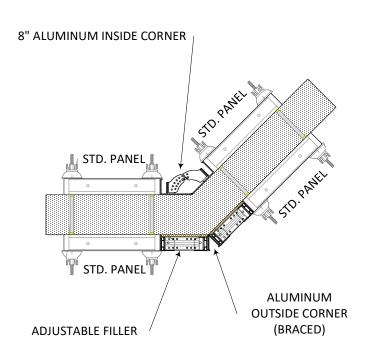
FORMING PILASTERS WITH VARIOUS COMBINATIONS PANELS, FILLERS AND CORNERS:

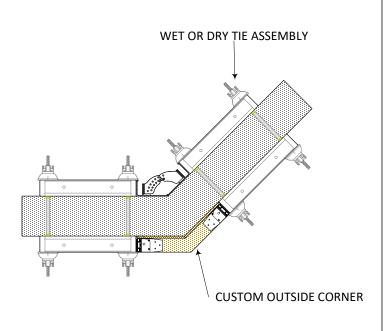
- UTILIZE STANDARD PANELS, ALUMINUM INSIDE CORNERS, ADJUSTABLE / CUSTOM FILLERS OR CORNERS, OVERLAP CORNER BRACKETS AND ALUMINUM OUTSIDE CORNERS TO ACHIEVE DIMENSIONAL REQUIREMENTS
- REMOVE GREEN TIE PLUG AND INSTALL BLUE TIE INSERT AT LOCATIONS REQUIRED FOR OVERLAP TIE ROD ASSEMBLY; IF THE FILLER
 SIDERAIL IS BEING USED FOR ADDITIONAL WIDTH, USE BOTH THE RED TIE PORT AND BLUE TIE INSERTS AT EACH OVERLAP TIE
 ASSEMBLY
- OVERLAP CORNER BRACKET, STANDARD CLAMP AND HIGH PRESSURE CORNER CONNECTOR SPACINGS ARE BASED ON POUR PRESSURE REQUIRMENTS; CONSULT ENGINEERING FOR DESIGN REQUIREMENTS

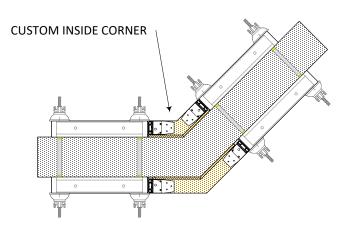


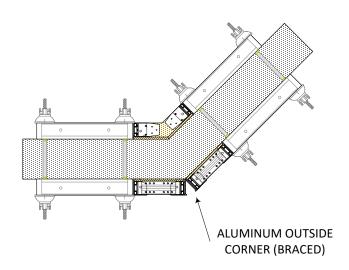
FORMING BULKHEADS WITH A COMBINATION OF OVERLAP CORNER BRACKETS AND STANDARD ALUMINUM OUTSIDE CORNERS:

- UTILIZE STANDARD PANELS, CUSTOM WOOD, ADJUSTABLE FILLERS, OVERLAP CORNER BRACKETS, BULKHEAD CLIPS AND / OR ALUMINUM OUTSIDE CORNERS TO ACHIEVE DIMENSIONAL REQUIREMENTS
- OPTIONALLY USE (1) HINGE OUTSIDE CORNER TO CLAM SHELL BULKHEAD FOR SINGLE CRANE LIFT WITH ONE SIDE OF WALL FORM
- REMOVE GREEN TIE PLUG AND INSTALL BLUE TIE INSERT AT LOCATIONS REQUIRED FOR OVERLAP TIE ROD ASSEMBLY; IF THE FILLER
 SIDERAIL IS BEING USED FOR ADDITIONAL WIDTH, USE BOTH THE RED TIE PORT AND BLUE TIE INSERTS AT EACH OVERLAP TIE
 ASSEMBLY
- OVERLAP CORNER BRACKET, BULKHEAD CLIP, STANDARD CLAMP AND HIGH PRESSURE CORNER CONNECTOR SPACINGS ARE BASED
 ON POUR PRESSURE REQUIRMENTS; CONSULT ENGINEERING FOR DESIGN REQUIREMENTS



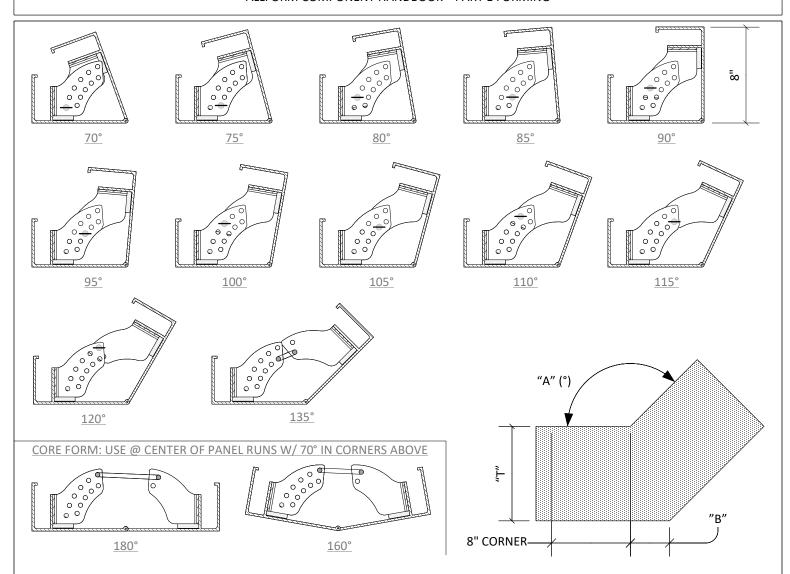




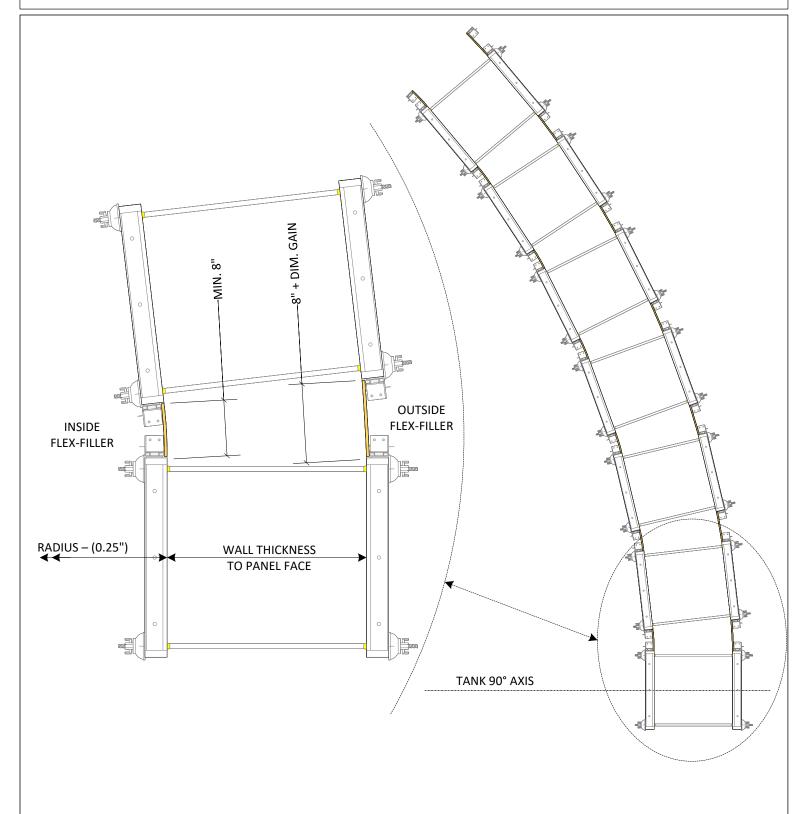


FORMING VARIABLE ANGLED WALLS:

- UTILIZE STANDARD PANELS, CUSTOM CORNERS, ADJUSTABLE FILLERS, OVERLAP CORNER BRACKETS, AND / OR VARIABLE ANGLED ALUMINUM INSIDE & OUTSIDE CORNERS TO ACHIEVE DIMENSIONAL REQUIREMENTS
- VARIABLE ANGLED INSIDE CORNERS CAN BE PRESET TO ACHIEVE VARIOUS STANDARD ANGLES; REFER TO NEXT SHEET FOR VARIABLE ANGLE INSIDE CORNER SETTINGS
- ALUMINUM HINDGED OUTSIDE CORNERS MUST BE BRACES TO MAINTAIN SPECIFIED ANGLE
- STANDARD CLAMP AND HIGH PRESSURE CORNER CONNECTOR SPACINGS ARE BASED ON POUR PRESSURE REQUIRMENTS; CONSULT ENGINEERING FOR DESIGN REQUIREMENTS

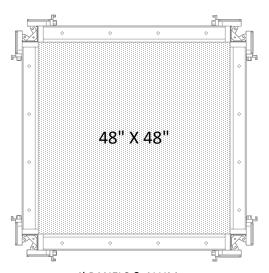


"A" - INSIDE ANGLE (°)	"T" - WALL THICKNESS (INCHES)											
	8	10	12	14	16	18	20	22	24	26	28	30
ANGLE	"B" - WALL MAKEUP (INCHES)											
70	11.43	14.28	17.14	19.99	22.85	25.71	28.56	31.42	34.28	37.13	39.99	42.84
75	10.43	13.03	15.64	18.25	20.85	23.46	26.06	28.67	31.28	33.88	36.49	39.10
80	9.53	11.92	14.30	16.68	19.07	21.45	23.84	26.22	28.60	30.99	33.37	35.75
85	8.73	10.91	13.10	15.28	17.46	19.64	21.83	24.01	26.19	28.37	30.56	32.74
90	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00	26.00	28.00	30.00
95	7.33	9.16	11.00	12.83	14.66	16.49	18.33	20.16	21.99	23.82	25.66	27.49
100	6.71	8.39	10.07	11.75	13.43	15.10	16.78	18.46	20.14	21.82	23.49	25.17
105	6.14	7.67	9.21	10.74	12.28	13.81	15.35	16.88	18.42	19.95	21.49	23.02
110	5.60	7.00	8.40	9.80	11.20	12.60	14.00	15.40	16.80	18.21	19.61	21.01
115	5.10	6.37	7.64	8.92	10.19	11.47	12.74	14.02	15.29	16.56	17.84	19.11
120	4.62	5.77	6.93	8.08	9.24	10.39	11.55	12.70	13.86	15.01	16.17	17.32
125	4.16	5.21	6.25	7.29	8.33	9.37	10.41	11.45	12.49	13.53	14.58	15.62
130	3.73	4.66	5.60	6.53	7.46	8.39	9.33	10.26	11.19	12.12	13.06	13.99
135	3.31	4.14	4.97	5.80	6.63	7.46	8.28	9.11	9.94	10.77	11.60	12.43

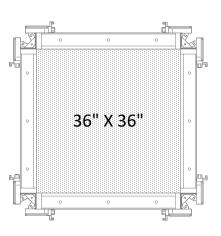


FORMING CIRCULAR WALLS WITH CHORDED PANELS:

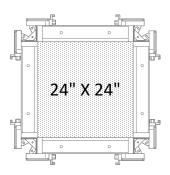
- UTILIZE STANDARD PANELS AND FILLER SIDERAILS (FLEX-FILLERS) TO ACHIEVE RADIAL REQUIREMENTS
- SET INSIDE PANEL APPROXIMATELY 0.25" SHORT OF THE INSIDE TANK RADIUS TO ACCOUNT FOR PANEL CHORD DEPTH
- ONLY USE 2' WIDE PANELS ON TANKS 30' IN DIAMETER OR LESS; USE 2' OR 3' WIDE PANELS FOR DIAMETERS GREATER THAN 30'
- FLEX-FILLER WIDTH IS A FUNCTION OF TANK DIAMETER, PANEL WIDTHS USED AND FORMWORK CLOSURE REQUIRMENTS
- FLEX-FILLER DESIGN AND TIE SPACINGS ARE BASED ON POUR PRESSURE REQUIRMENTS; CONSULT ENGINEERING FOR DESIGN REQUIREMENTS



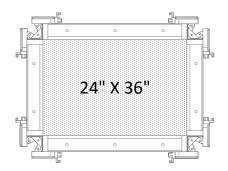
4' PANELS & ALUM.
OUTSIDE CORNERS



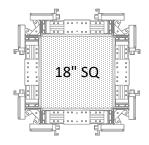
3' PANELS & ALUM.
OUTSIDE CORNERS



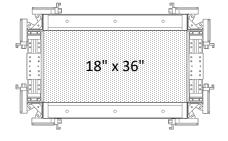
2' PANELS & ALUM.
OUTSIDE CORNERS



MIXED SIZE PANELS & ALUM. OUTSIDE CORNERS



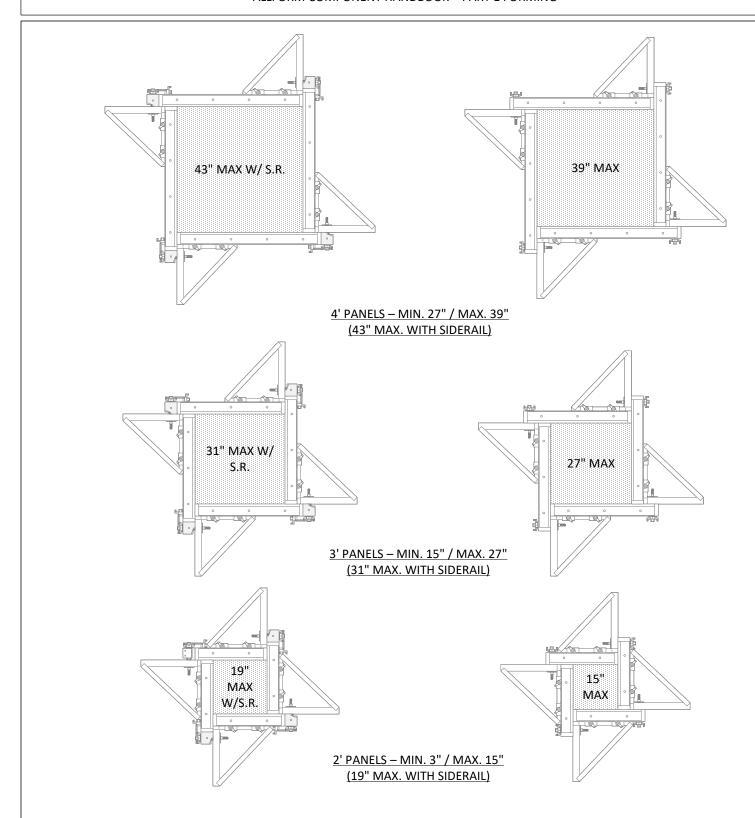
ADJUSTABLE FILLER & ALUM.
OUTSIDE CORNERS



PANEL / ADJ. FILLER & ALUM.
OUTSIDE CORNERS

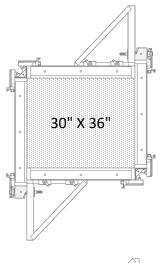
FORMING COLUMNS WITH STANDARD ALUMINUM OUTSIDE CORNERS:

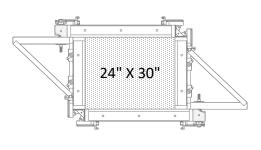
- UTILIZE STANDARD PANELS, ADJUSTABLE FILLERS OR A COMBINATION OF BOTH
- OPTIONALLY USE (1) HINGE OUTSIDE CORNER TO CLAM SHELL COLUMN FORM FOR SINGLE CRANE LIFT
- STANDARD CLAMP AND HIGH PRESSURE CORNER CONNECTOR SPACINGS ARE BASED ON POUR PRESSURE REQUIRMENTS; CONSULT ENGINEERING FOR DESIGN REQUIREMENTS

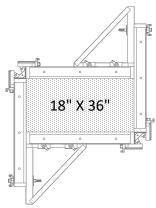


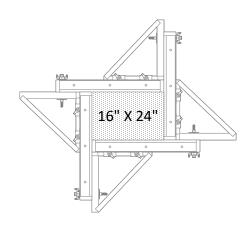
FORMING COLUMNS WITH OVERLAP CORNER BRACKETS:

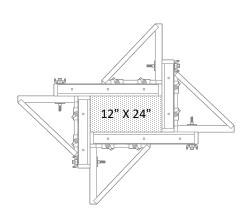
- UTILIZE STANDARD PANELS AND OVERLAP CORNER BRACKETS TO ACHIEVE DIMENSIONAL REQUIREMENTS
- REMOVE GREEN TIE PLUG AND INSTALL BLUE TIE INSERT AT LOCATIONS REQUIRED FOR OVERLAP TIE ROD ASSEMBLY; IF THE FILLER
 SIDERAIL IS BEING USED FOR ADDITIONAL WIDTH, USE BOTH THE RED TIE PORT AND BLUE TIE INSERTS AT EACH OVERLAP TIE
 ASSEMBLY
- OVERLAP CORNER BRACKET AND STANDARD CLAMP SPACINGS ARE BASED ON POUR PRESSURE REQUIRMENTS; CONSULT ENGINEERING FOR DESIGN REQUIREMENTS

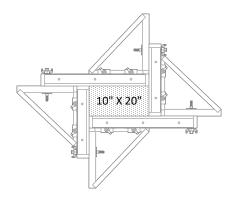






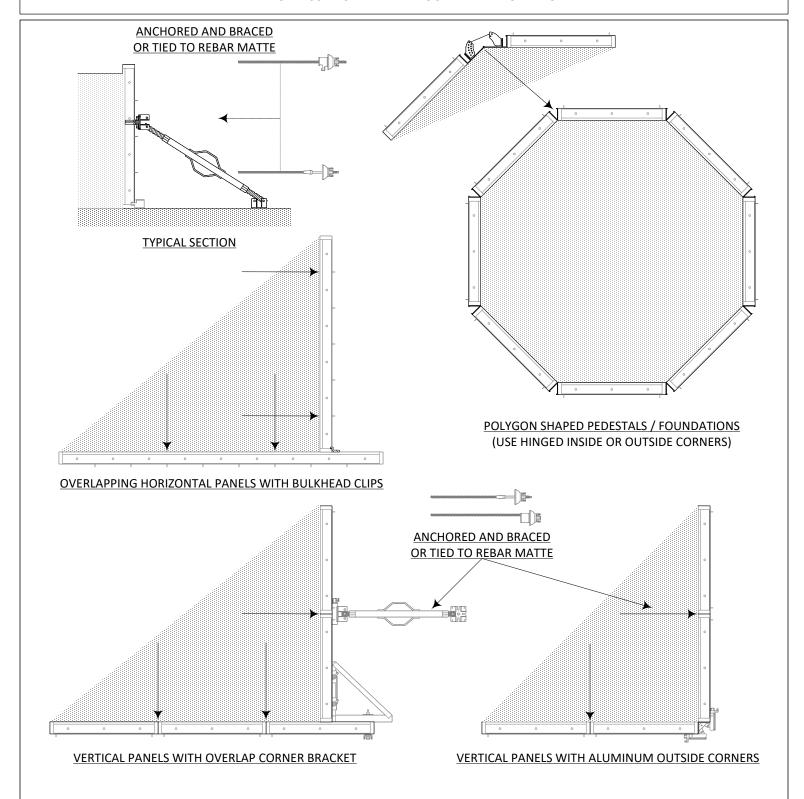






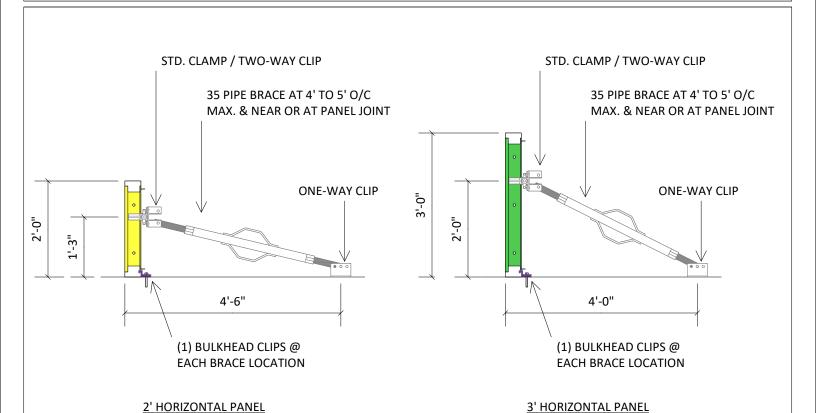
FORMING COLUMNS WITH A COMBINATION OF OVERLAP CORNER BRACKETS AND STANDARD ALUMINUM OUTSIDE CORNERS:

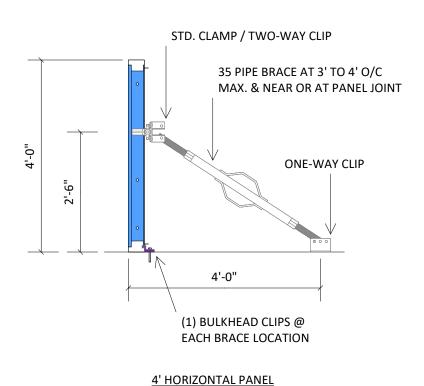
- UTILIZE STANDARD PANELS, OVERLAP CORNER BRACKETS AND ALUMINUM OUTSIDE CORNERS TO ACHIEVE DIMENSIONAL REQUIREMENTS
- OPTIONALLY USE (1) HINGE OUTSIDE CORNER TO CLAM SHELL COLUMN FORM FOR SINGLE CRANE LIFT
- REMOVE GREEN TIE PLUG AND INSTALL BLUE TIE INSERT AT LOCATIONS REQUIRED FOR OVERLAP TIE ROD ASSEMBLY; IF THE FILLER
 SIDERAIL IS BEING USED FOR ADDITIONAL WIDTH, USE BOTH THE RED TIE PORT AND BLUE TIE INSERTS AT EACH OVERLAP TIE
 ASSEMBLY
- OVERLAP CORNER BRACKET, STANDARD CLAMP, AND HIGH PRESSURE CORNER CONNECTOR SPACINGS DEPEND ON POUR PRESSURE REQUIRMENTS; CONSULT ENGINEERING FOR DESIGN REQUIREMENTS

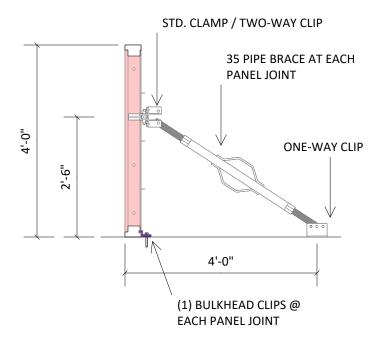


FORMING LARGE FOUNDATIONS (BRACED OR TIED):

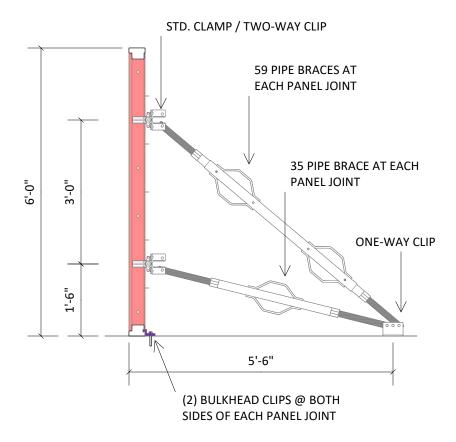
- UTILIZE STANDARD VERTICAL OR HORIZONTAL PANELS, OVERLAP CORNER BRACKETS, HOLD-DOWNS, BULKHEAD CLIPS, AND / OR ALUMINUM OUTSIDE CORNERS TO ACHIEVE DIMENSIONAL REQUIREMENTS
- REMOVE GREEN TIE PLUG AND INSTALL BLUE TIE INSERT AT LOCATIONS REQUIRED FOR OVERLAP TIE ROD ASSEMBLY; IF THE FILLER SIDERAIL IS BEING USED FOR ADDITIONAL WIDTH, USE BOTH THE RED TIE PORT AND BLUE TIE INSERTS AT EACH OVERLAP TIE ASSEMBLY
- OVERLAP CORNER BRACKET, BULKHEAD CLIP, PIPE BRACING, BASE ANCHOR, FORM TIES, STANDARD CLAMP AND HIGH PRESSURE CONNECTOR SPACINGS DEPEND ON POUR PRESSURE REQUIRMENTS; CONSULT ENGINEERING FOR DESIGN REQUIREMENTS



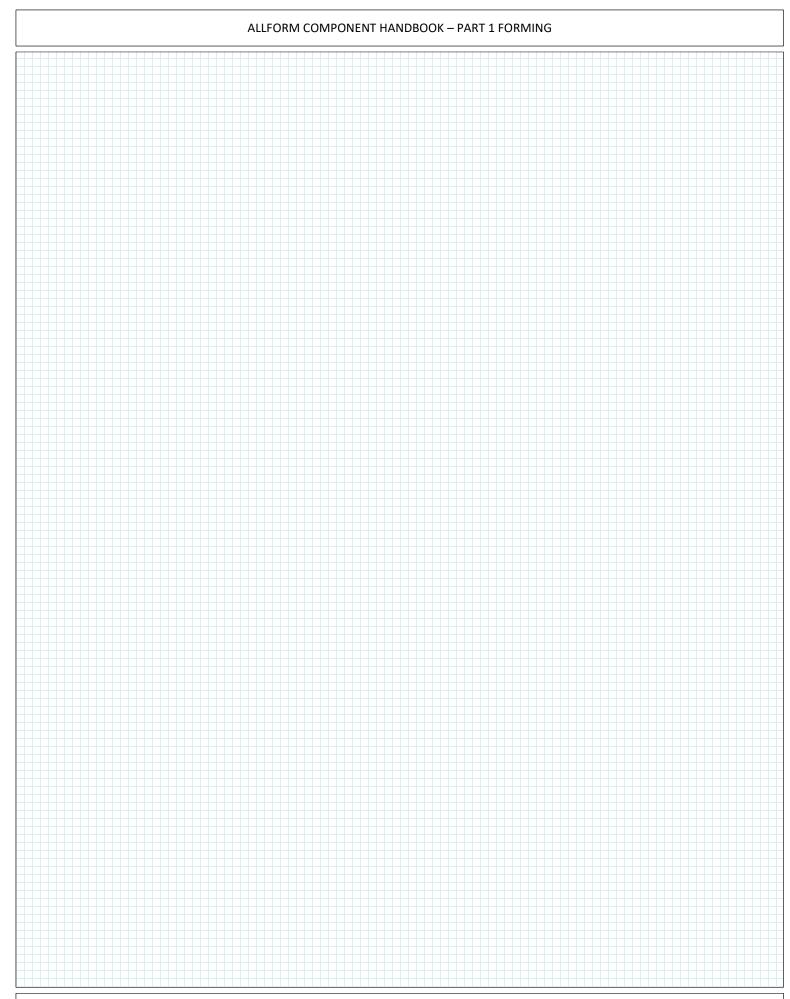


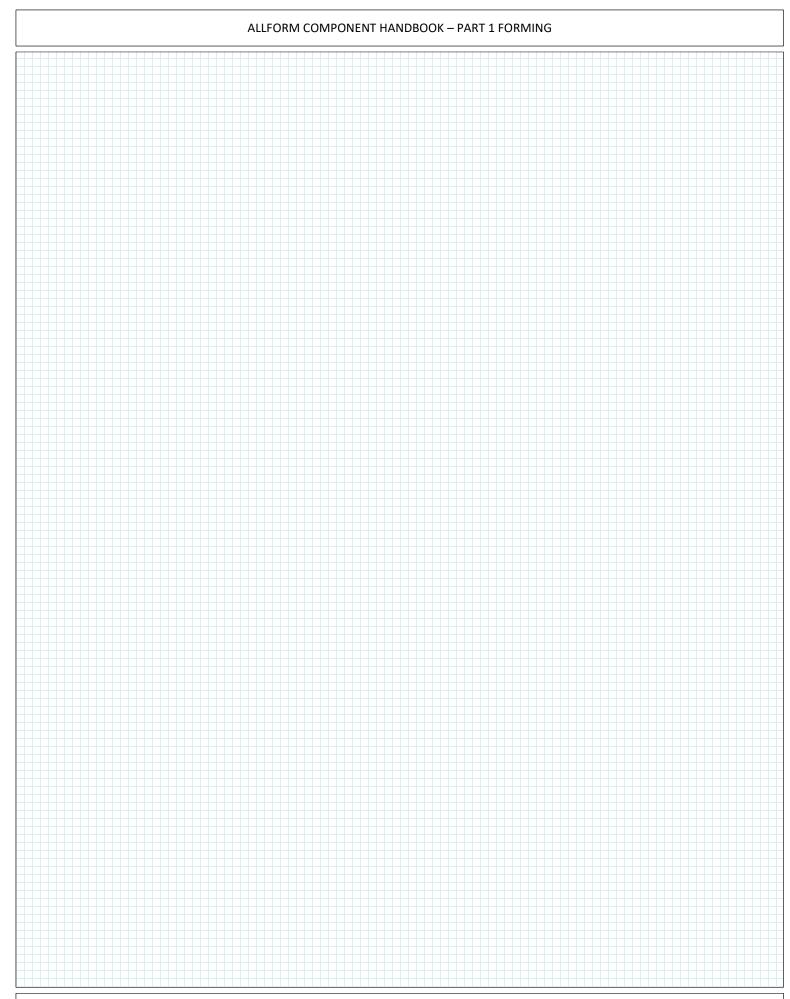


4' VERTICAL PANEL



6' VERTICAL PANEL





COMPONENT HANDBOOK – PART 1 FORMING



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