

COMPONENT HANDBOOK – PART 1 FORMING

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allform

SINGLE SYSTEM, ENDLESS SOLUTIONS

FFORMTECH
concrete forms, inc.



ALLFORM COMPONENT HANDBOOK – PART 1 FORMING

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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.

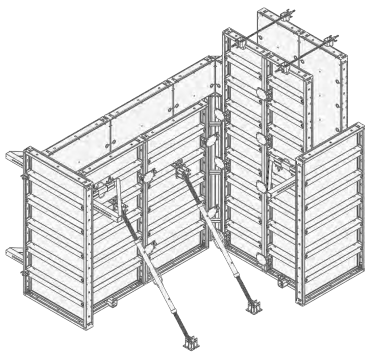
THE COMBINATION OF REDUCED SYSTEM WEIGHT AND HAVING A HIGH DEGREE OF VERSATILITY, ALONG WITH ALL THE OTHER KEY INNOVATIONS, SIGNIFICANTLY INCREASES FIELD PRODUCTION FOR ALL RELATED PROJECT ACTIVITIES.

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

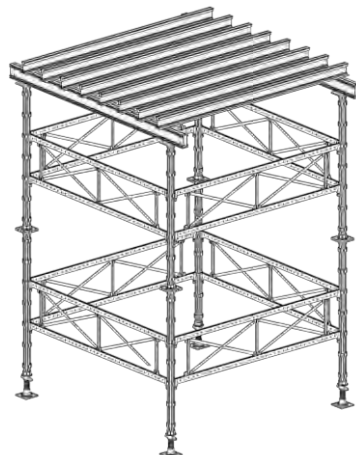
SYSTEM OVERVIEW:

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

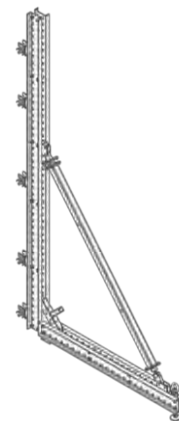
COMPONENT HANDBOOK OVERVIEW



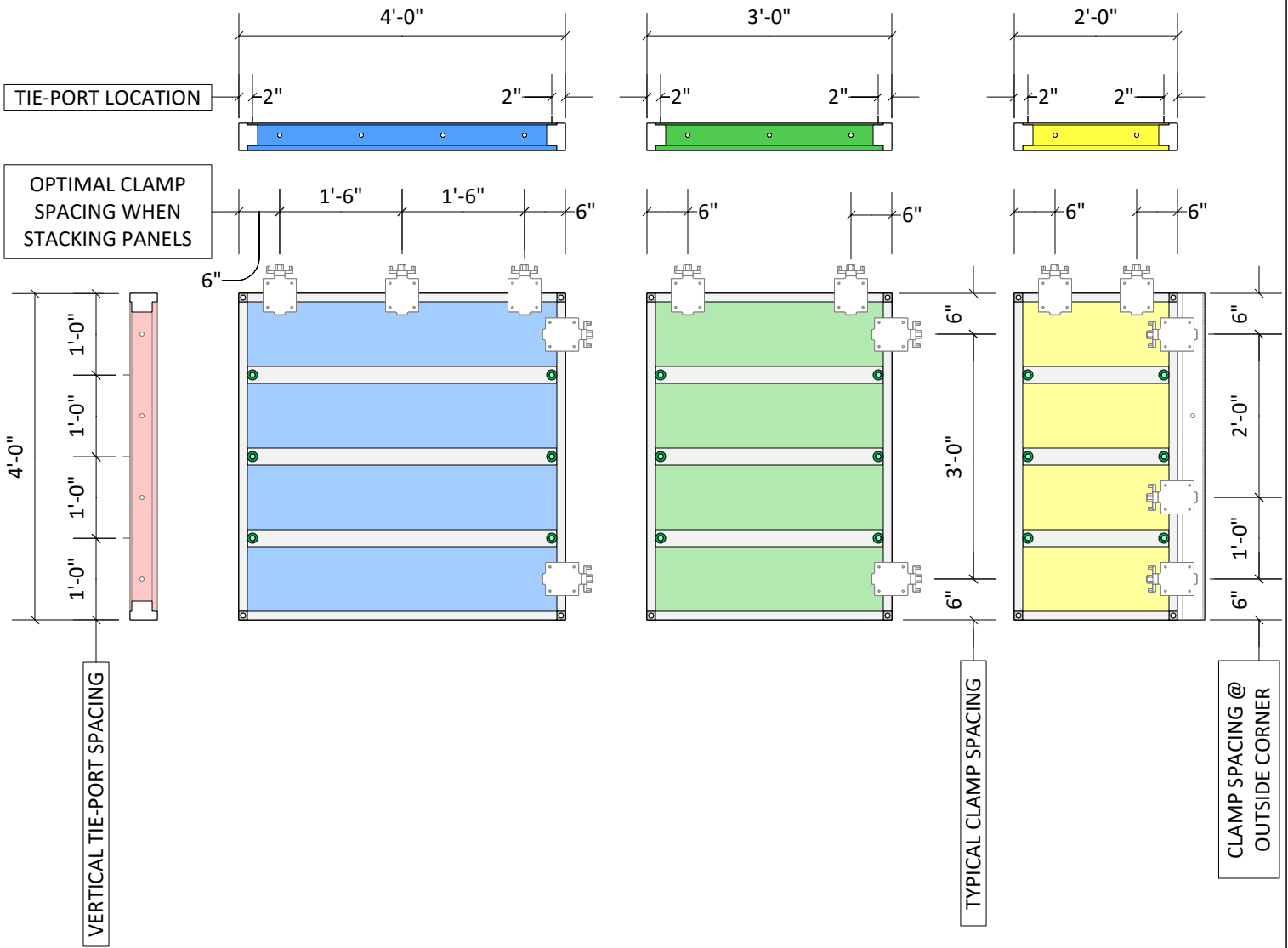
PART 1 - FORMING



PART 2 - SHORING



PART 3 – SUPPORT SYSTEMS



STANDRD PANEL NOTES:

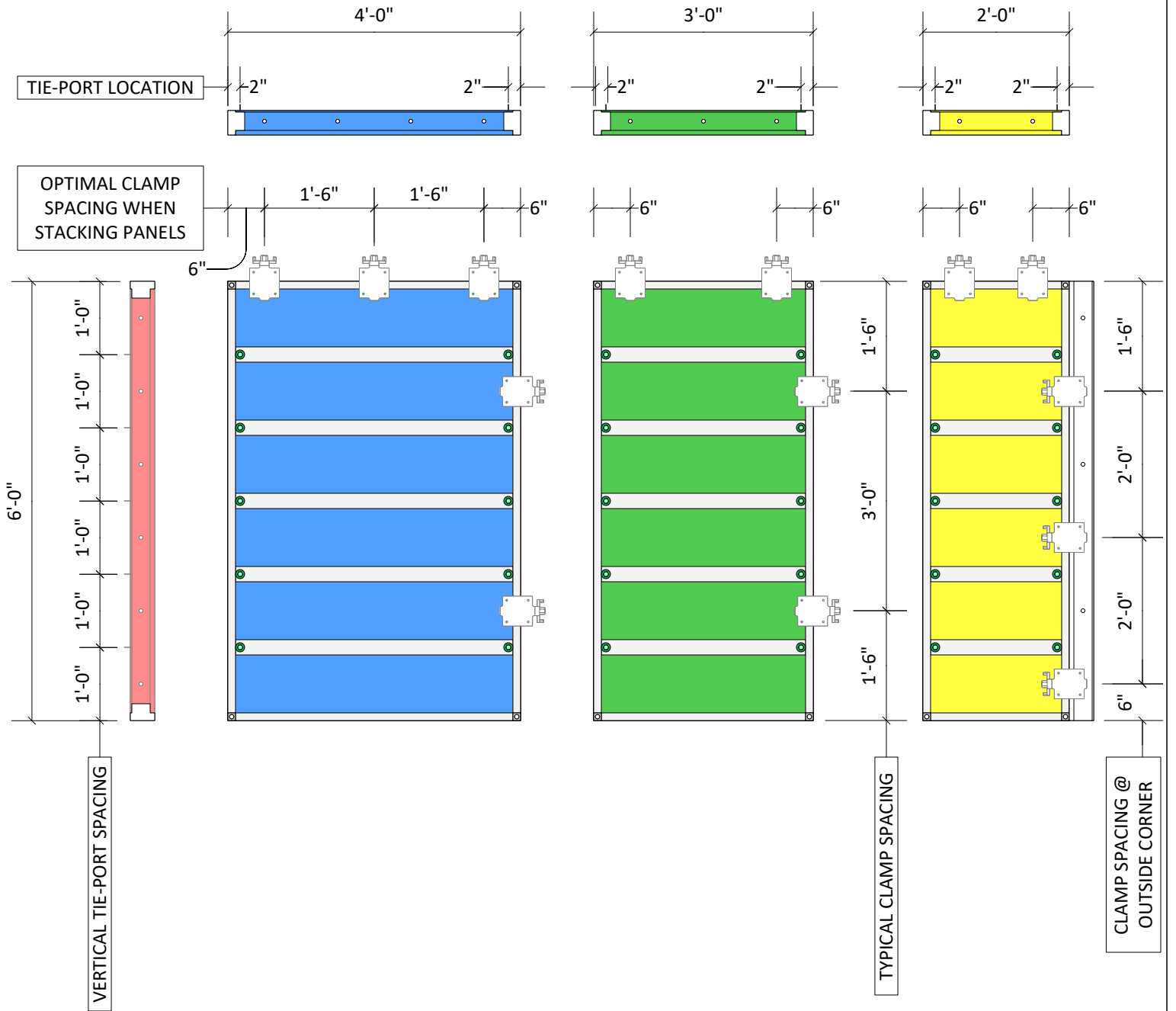
- ALLFORM PANEL FRAMES ARE CONSTRUCTED FROM NON-WELDED EXTRUDED ALUMINUM WITH ALUINUM AND STEEL FITTINGS, STAINLESS STEEL CONNECTORS AND A SYNTHETIC FORM FACE
- TIE PORTS ARE LOCATED EVERY 12" VERTICALLY AND 2" INSIDE EACH VERTICAL SIDE RAIL
- TIE INSERTS ARE INCLUDED ON ALL PANELS AND WILL CONTAIN A 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

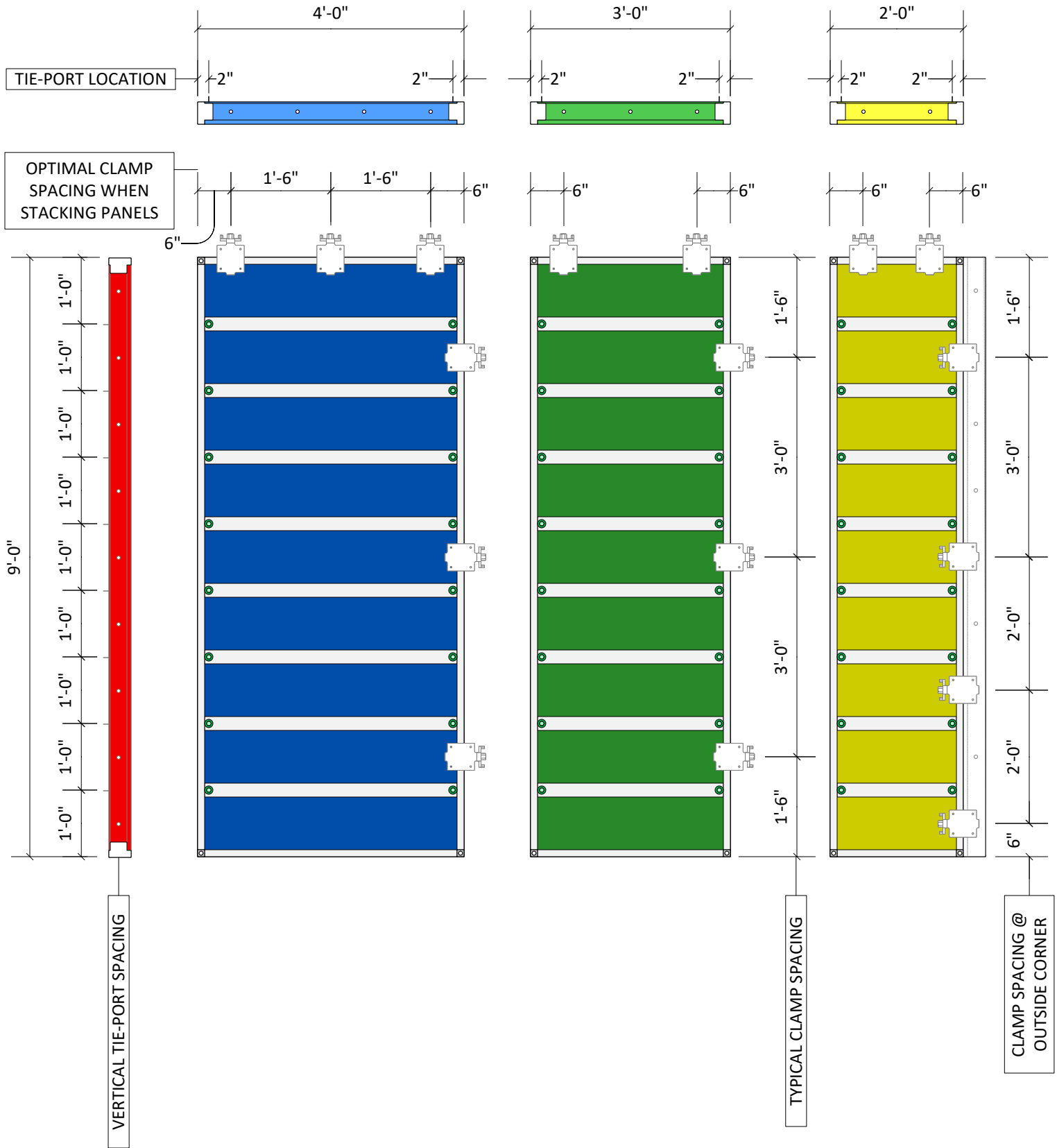
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SEE STANDARD PANEL NOTES ON SHEET 4

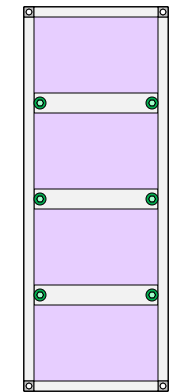
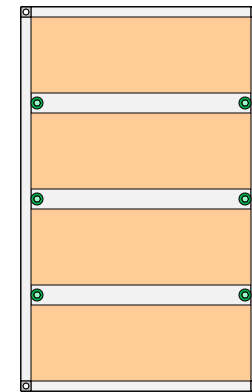
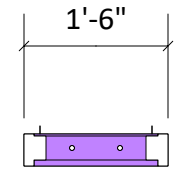
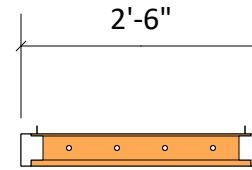
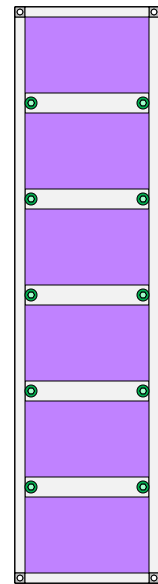
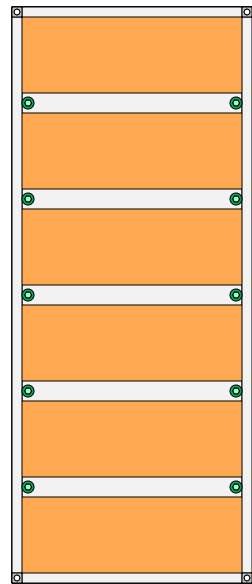
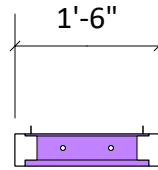
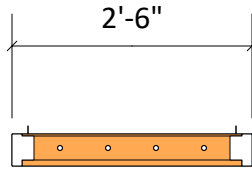
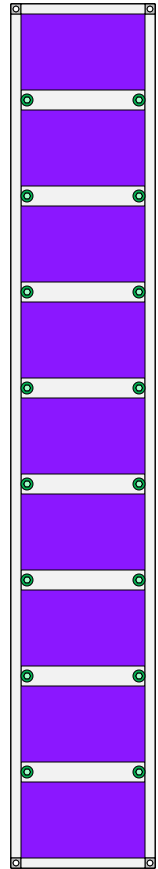
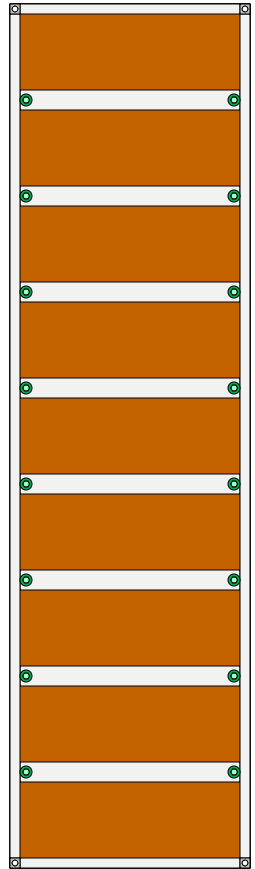
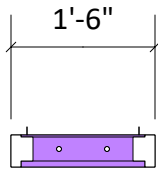
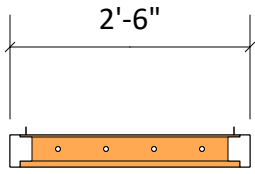
PRODUCT CODES

- 80624 - 6FT X 24IN STANDARD PANELS
- 80636 - 6FT X 36IN STANDARD PANELS
- 80648 - 6FT X 48IN STANDARD PANELS



SEE STANDARD PANEL NOTES ON SHEET 4

PRODUCT CODES
80924 - 9FT X 24IN STANDARD PANELS
80936 - 9FT X 36IN STANDARD PANELS
80948 - 9FT X 48IN STANDARD PANELS



9' HIGH PANELS

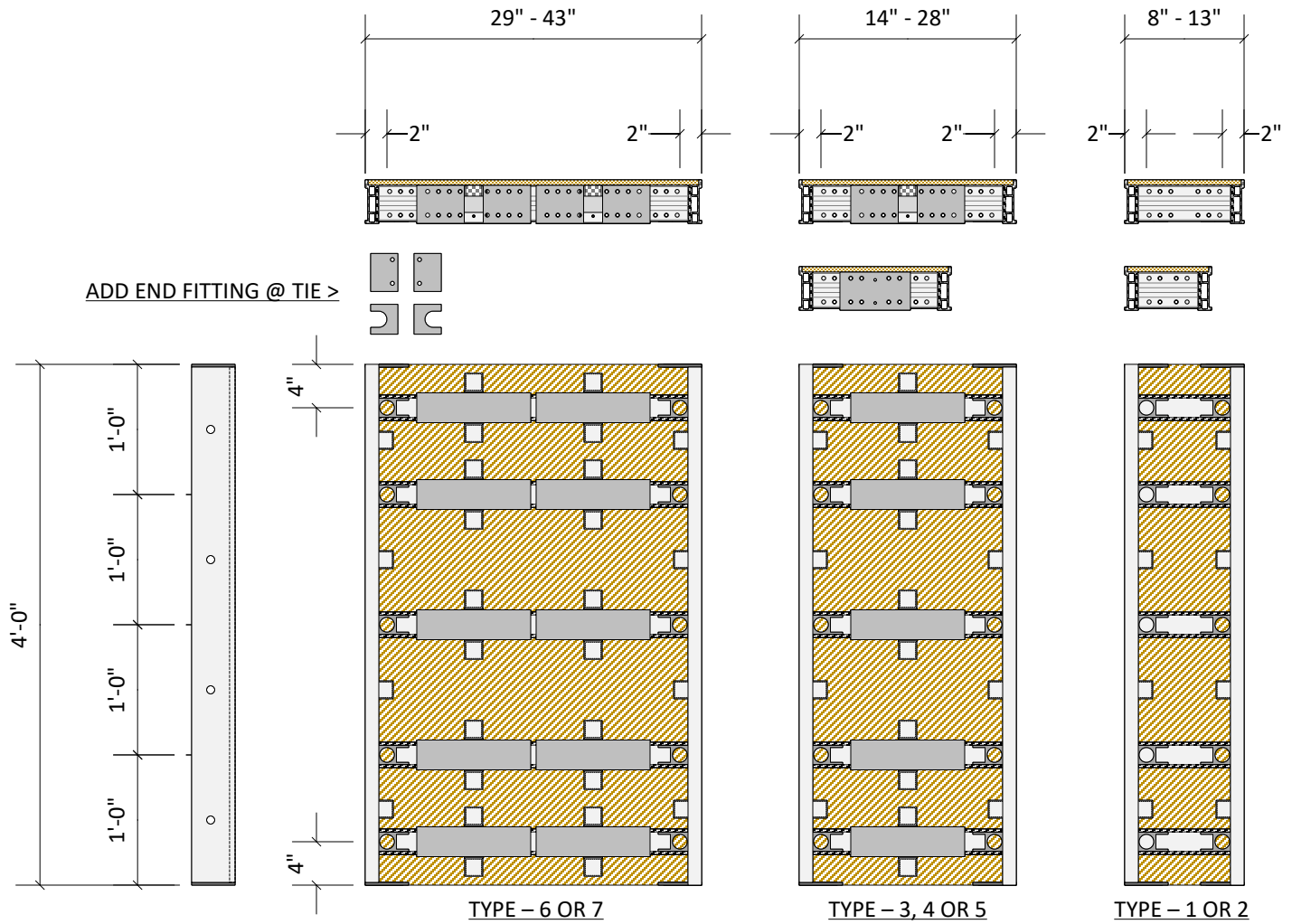
6' HIGH PANELS

4' HIGH PANELS

SEE STANDARD PANEL NOTES ON SHEET 4

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

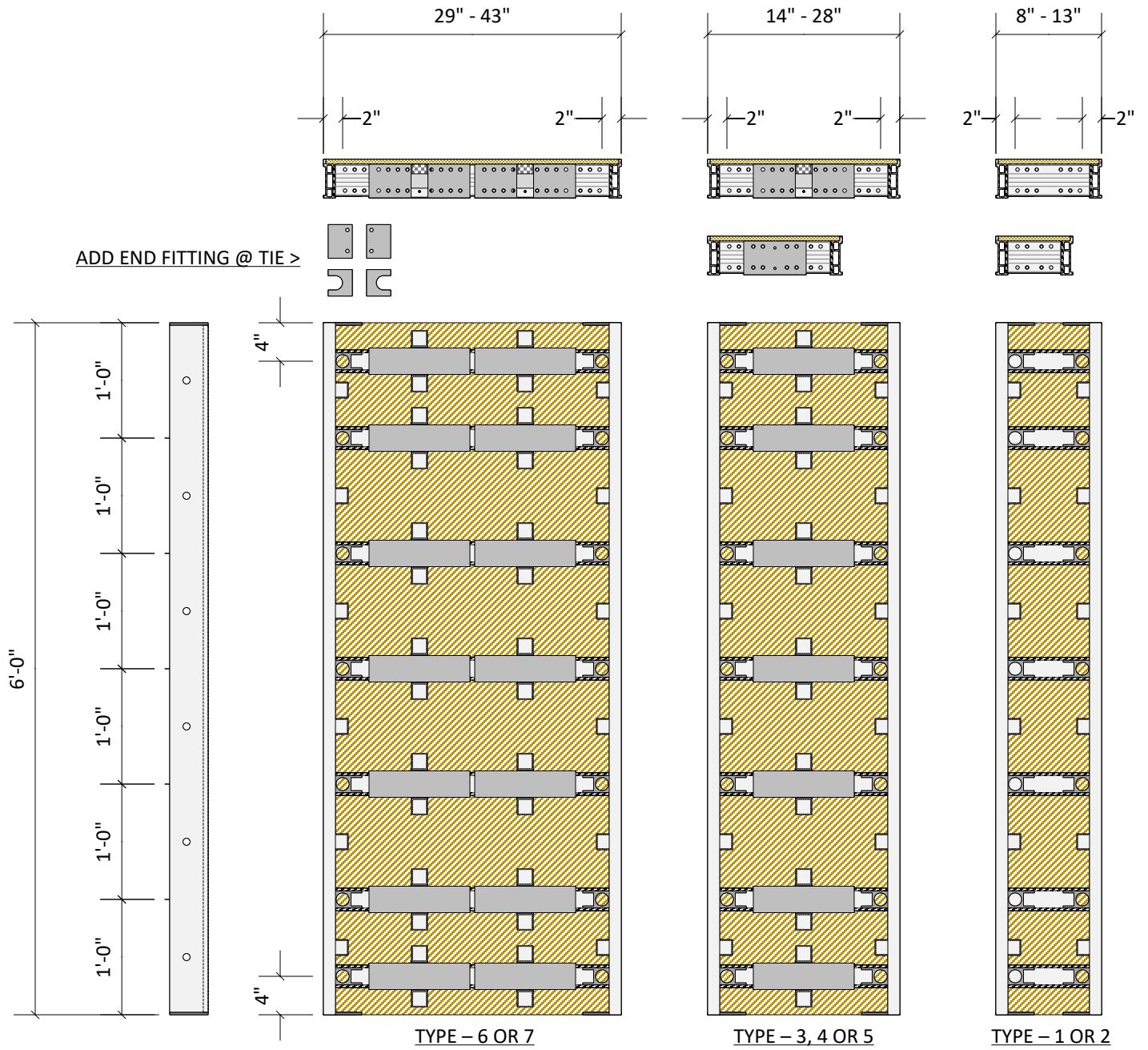


ADJUSTABLE FILLER AND CORNER NOTES:

- ALLFORM ADJUSTABLE FILLERS ARE CONSTRUCTED WITH FILLER SIDERAIL ASSEMBLIES AND ADJUSTABLE INNER RAILS. ADJUSTABLE RAIL CAN BE SUBSTITUTED WITH CUSTOM LUMBER RAIL (STRAIGHT, RADIUSSED 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 BEAMS REFERENCE 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

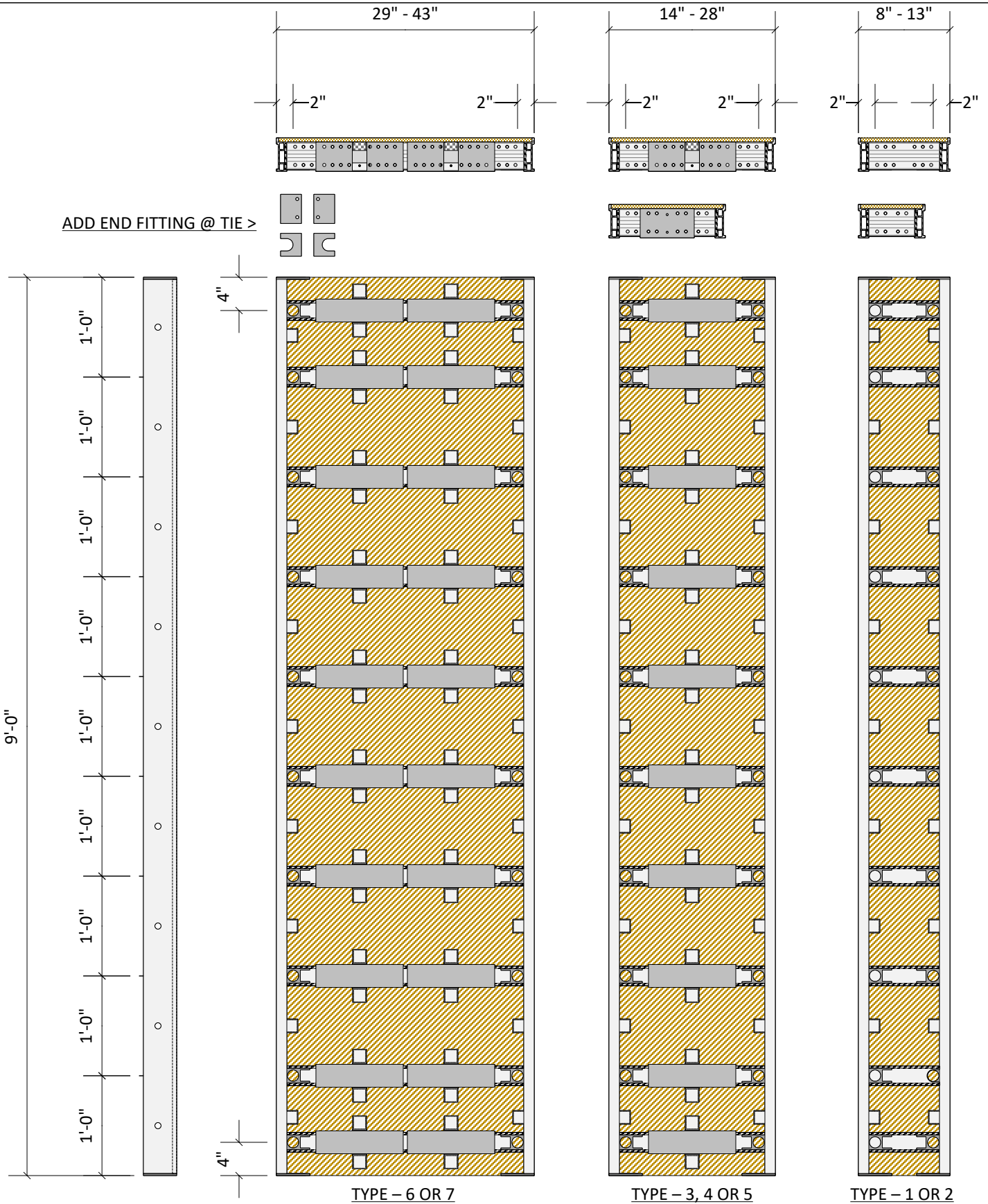
PRODUCT CODES
BFA400xx - 4FT X (xx)IN ADJUSTABLE FILLER



SEE ADJUSTABLE FILLER AND CORNER NOTES ON SHEET 8

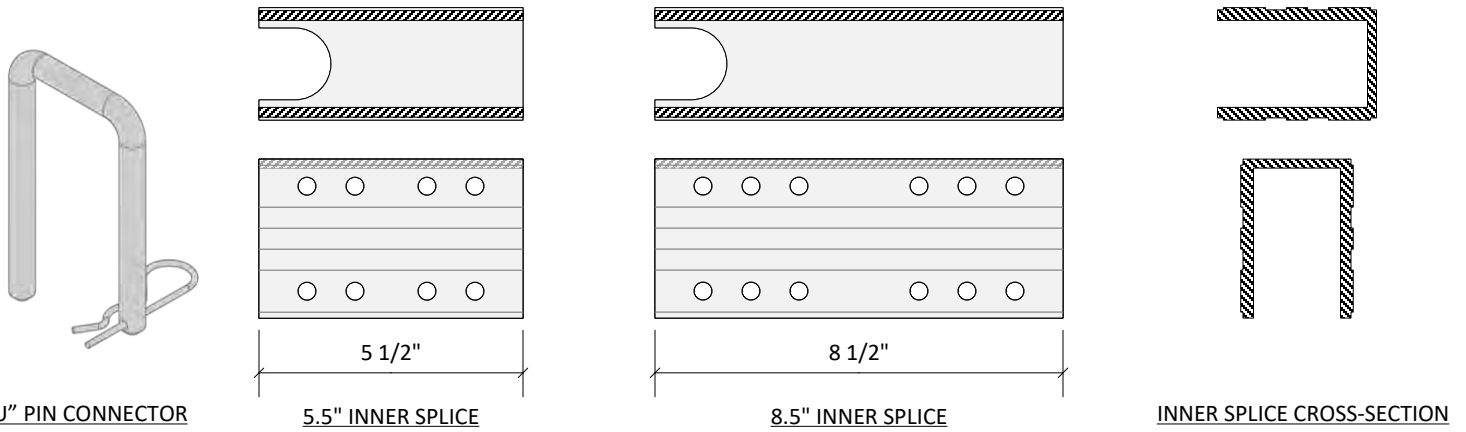
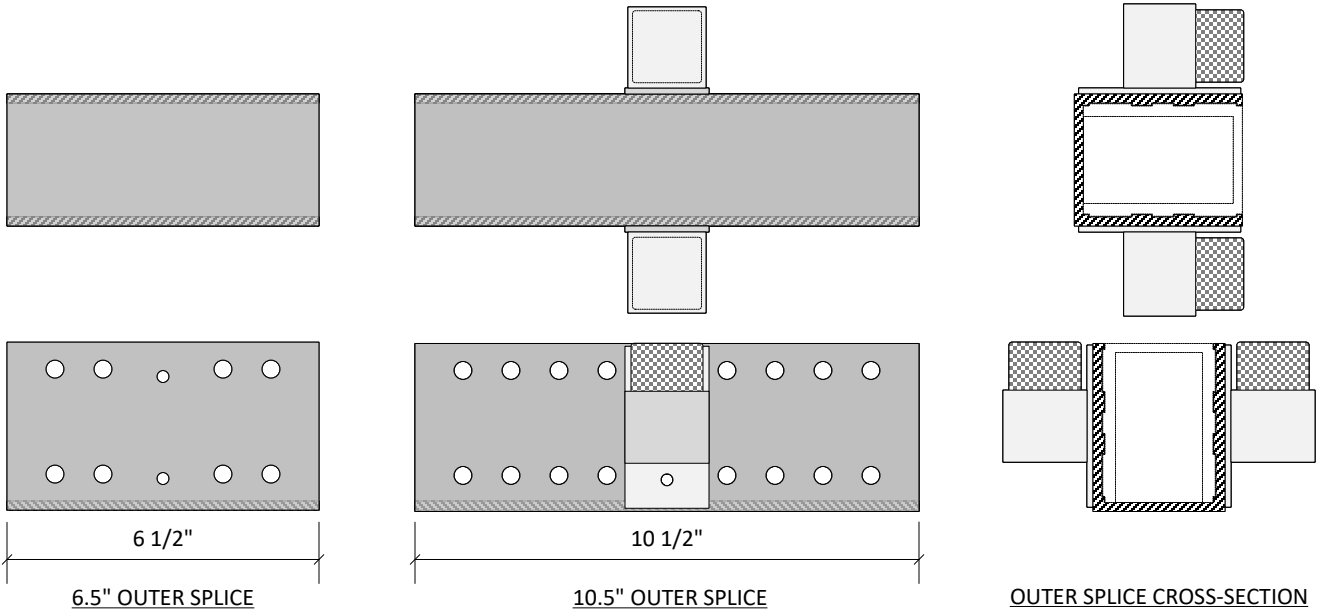
PRODUCT CODES
BFA600xx - 6FT X (xx)IN ADJUSTABLE FILLER

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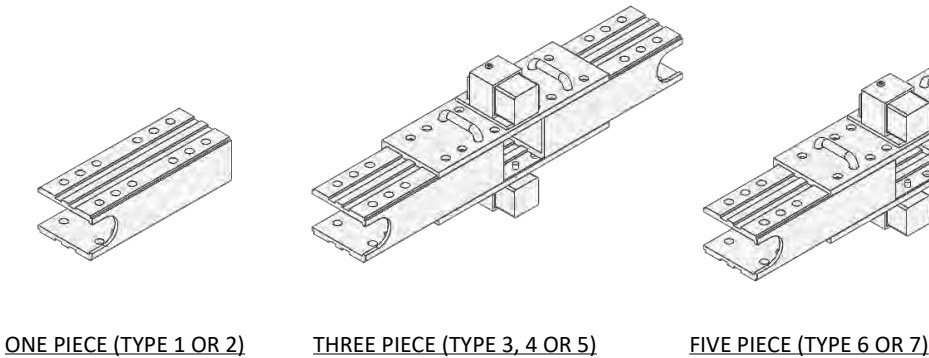


SEE ADJUSTABLE FILLER AND CORNER NOTES ON SHEET 8

PRODUCT CODES
BFA900xx - 9FT X (xx)IN ADJUSTABLE FILLER



ADJUSTABLE RAIL COMPONENTS

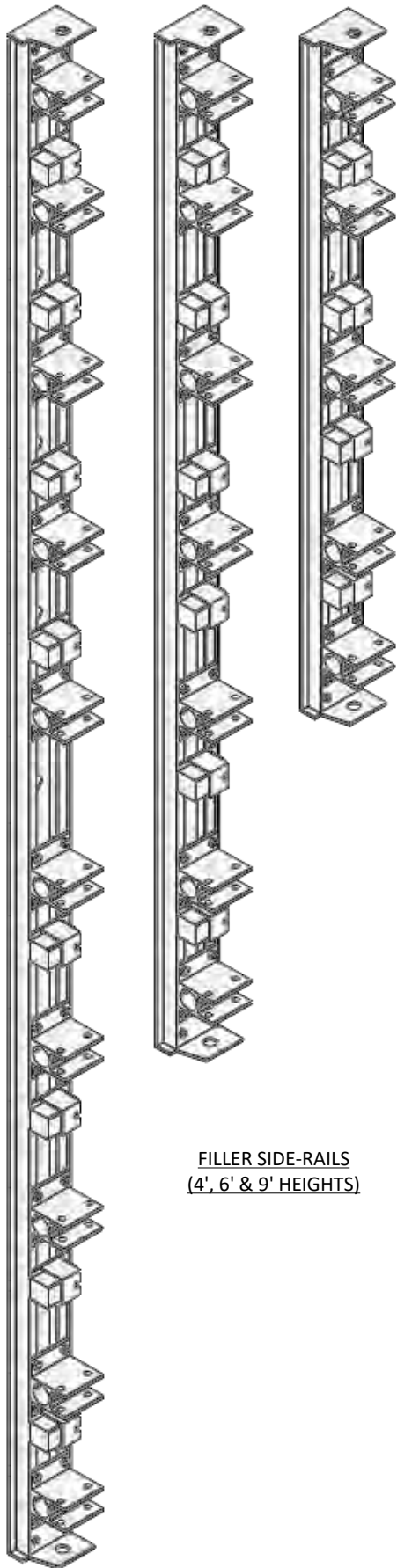


TYPICAL ADJUSTABLE RAIL CONFIGURATIONS

(PRIMARY TYPES #3 & #5 ARE USED TO CREATE ALL OTHER RAIL TYPE CONFIGURATIONS)

PRODUCT CODES	
81001	- 3" X 3/8"Ø DBL QUICK PIN W/ COTTER
81155	- ADJ. RAIL - 5.5" INNER
81185	- ADJ. RAIL - 8.5" INNER
81165	- ADJ. RAIL - 6.5" OUTER
81111	- ADJ. RAIL - 10.5" OUTER
A81101	- ADJ. RAIL - TYPE 01 W/ "U" PINS
A81102	- ADJ. RAIL - TYPE 02 W/ "U" PINS
A81103	- ADJ. RAIL - TYPE 03 W/ "U" PINS
A81104	- ADJ. RAIL - TYPE 04 W/ "U" PINS
A81105	- ADJ. RAIL - TYPE 05 W/ "U" PINS
A81106	- ADJ. RAIL - TYPE 06 W/ "U" PINS
A81107	- ADJ. RAIL - TYPE 07 W/ "U" PINS

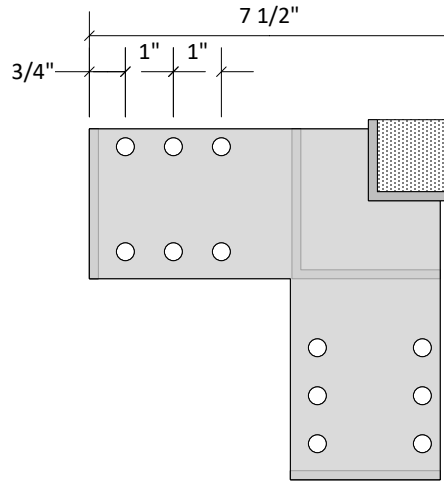
SEE ADJUSTABLE FILLER AND CORNER NOTES ON SHEET 8



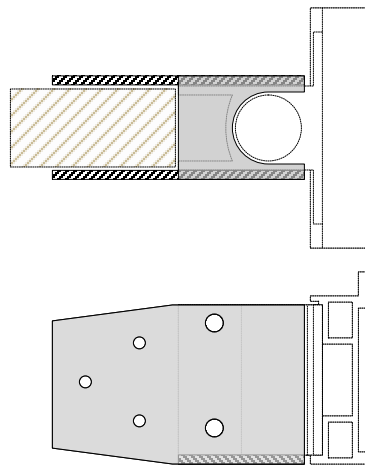
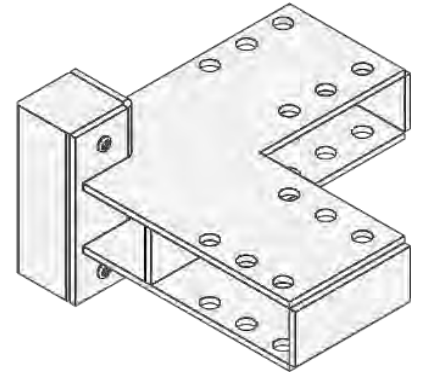
FILLER SIDE-RAILS
(4', 6' & 9' HEIGHTS)



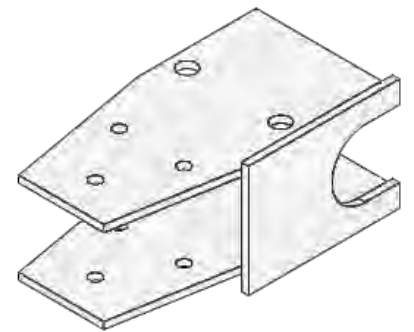
FILLER SIDE-RAIL PAIR TOP VIEW
(SAME COMPONENT FOR LEFT OR RIGHT SIDE)



ADJUSTABLE CORNER BRACKET



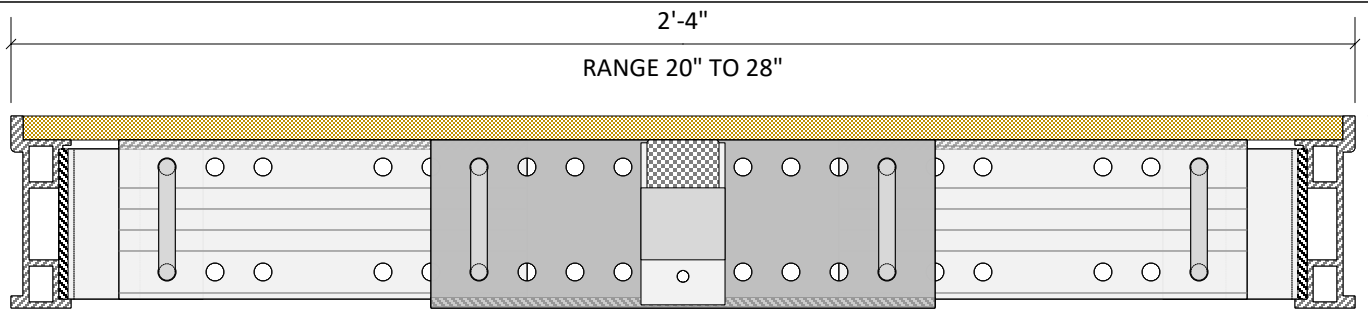
LUMBER RAIL CLIP



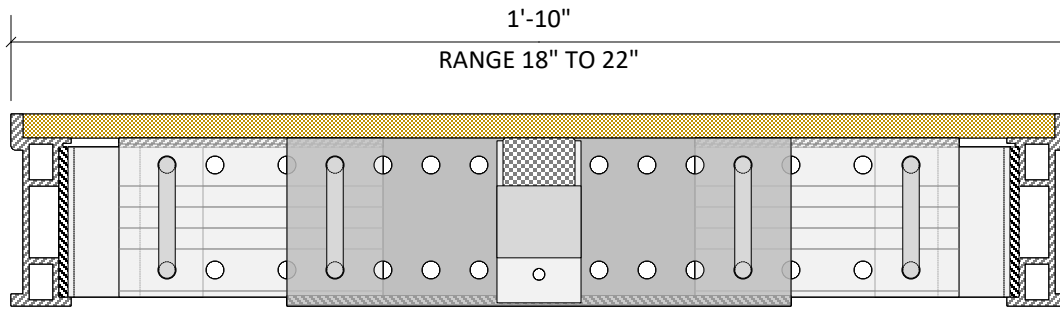
SEE ADJUSTABLE FILLER AND CORNER NOTES ON SHEET 8

PRODUCT CODES

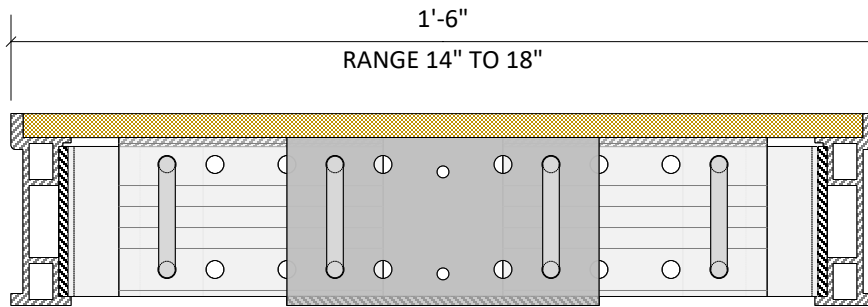
- 81175 - ADJ. CORNER BRACKET (7.5" X 7.5")
- 81180 - ADJUSTABLE CORNER END CAP
- 81900 - 9' FILLER SIDERAIL
- 81600 - 6' FILLER SIDERAIL
- 81400 - 4' FILLER SIDERAIL



TYPE – 5 CONFIGURATION (PRIMARY)



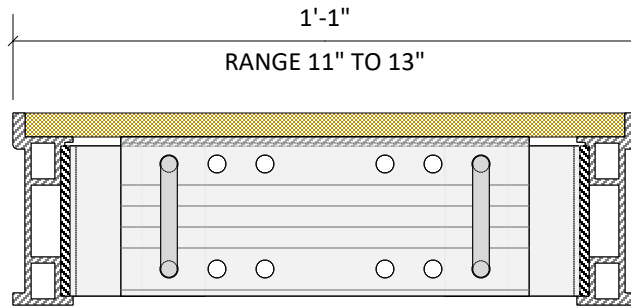
TYPE – 4 CONFIGURATION



TYPE – 3 CONFIGURATION (PRIMARY)

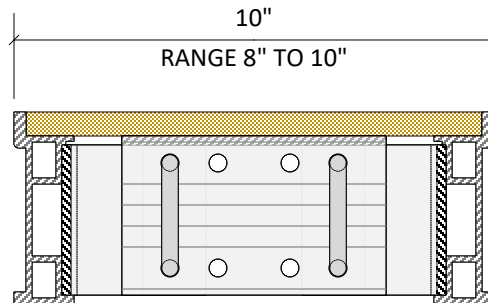
→
ADD TIE-END FITTING
(IF NECESSARY)

←
ADD TIE-END FITTING
(IF NECESSARY)



TYPE – 2 CONFIGURATION

ONE PIECE RAIL

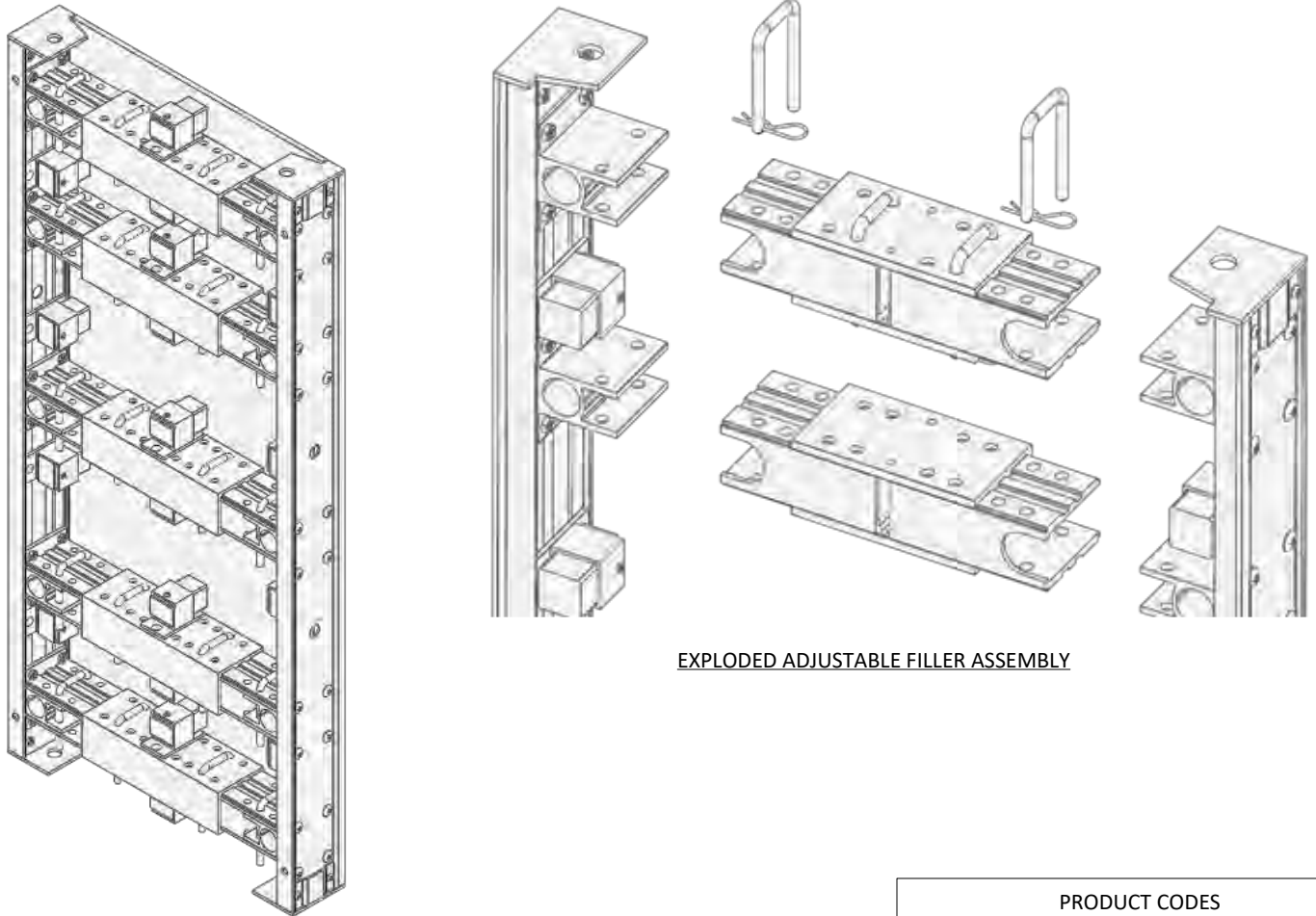
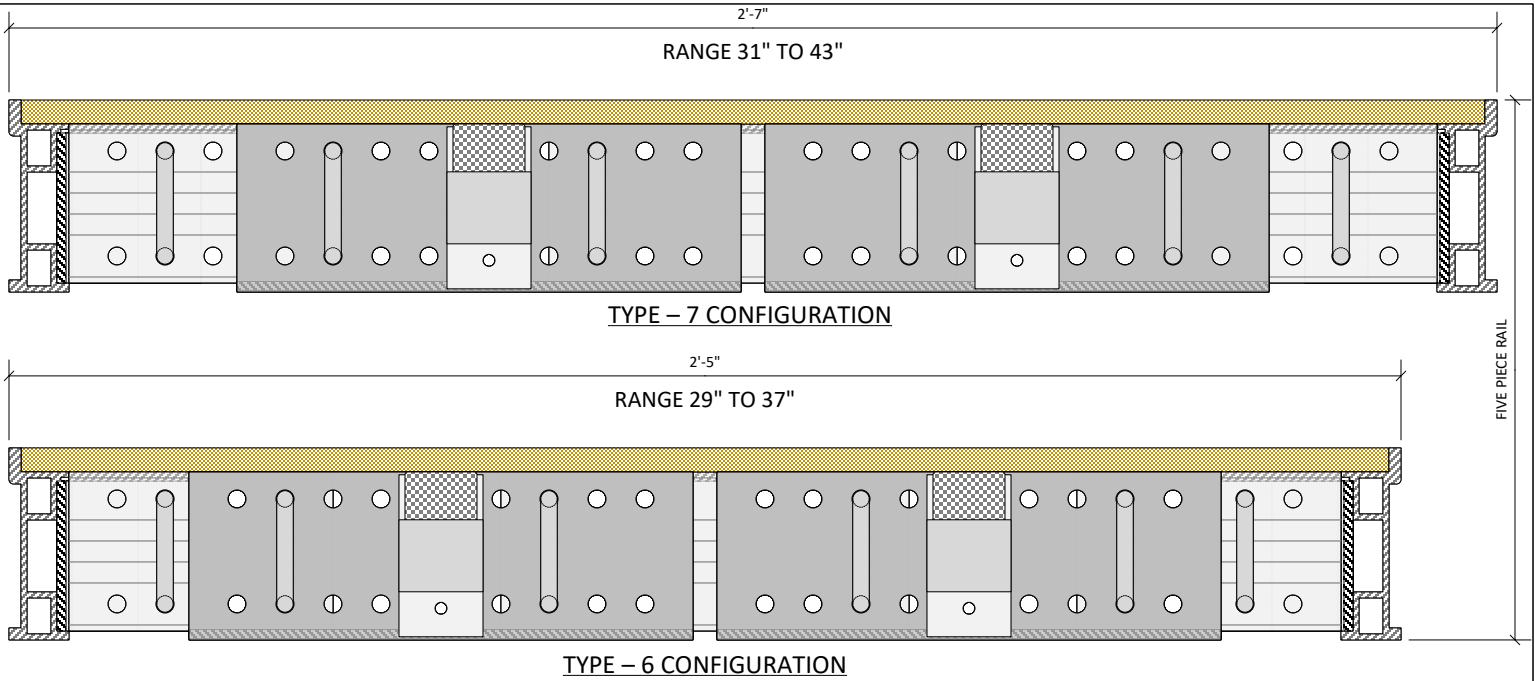


TYPE - 1 CONFIGURATION

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

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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

ALLFORM COMPONENT HANDBOOK – PART 1 FORMING

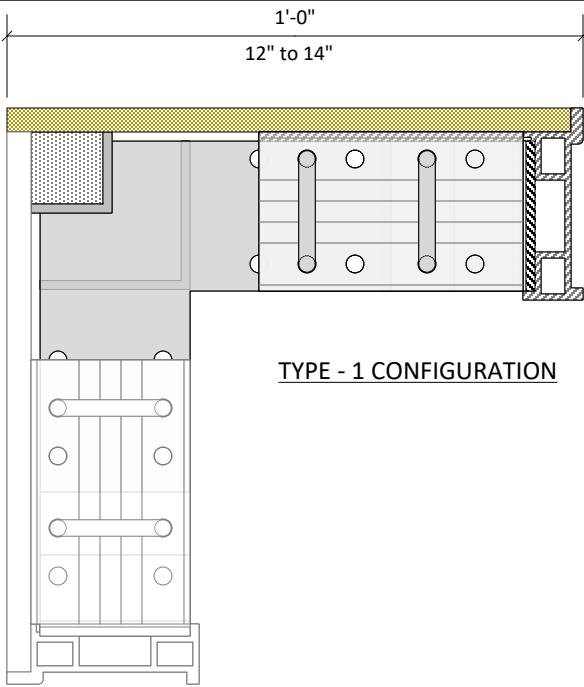
(1) PIECE RAIL	(1) PIECE RAIL	(3) PIECE RAIL	(3) PIECE RAIL	(3) PIECE RAIL	(5) PIECE RAIL	(5) PIECE RAIL
TYPE #1	TYPE #2	TYPE #3 (FACTORY ITEM)	TYPE #4	TYPE #5 (FACTORY ITEM)	TYPE #6	TYPE #7
					SIDERAIL	SIDERAIL
		SIDERAIL	SIDERAIL	SIDERAIL	5.5" INNER RAIL	8.5" INNER RAIL
		5.5" INNER RAIL	5.5" INNER RAIL	8.5" INNER RAIL	10.5" OUTER RAIL	10.5" OUTER 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 DIMENSION:

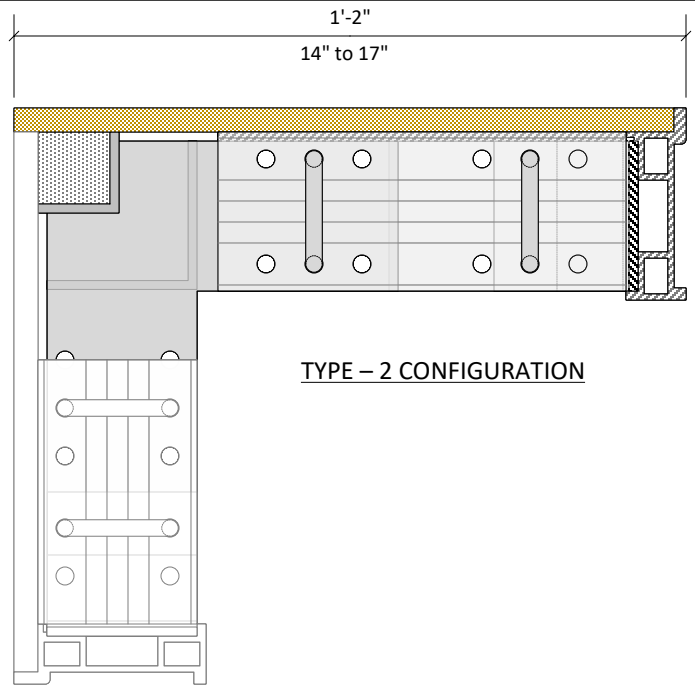
8"						
9"						
10"						
	11"					
	12"					
	13"					
		14"				
		15"				
		16"				
		17"				
		18"	18"			
			19"			
			20"	20"		
			21"	21"		
			22"	22"		
				23"		
				24"		
				25"		
				26"		
				27"		
				28"		
					29"	
					30"	
					31"	31"
					32"	32"
					33"	33"
					34"	34"
					35"	35"
					36"	36"
					37"	37"
						38"
						39"
						40"
						41"
						42"
						43"

SEE ADJUSTABLE FILLER AND CORNER NOTES ON SHEET 8

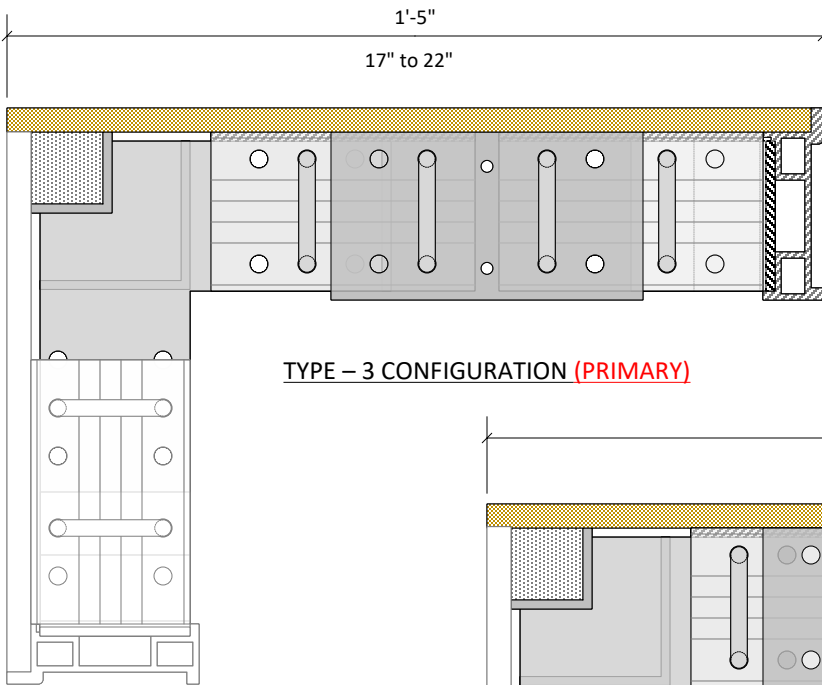
ALLFORM COMPONENT HANDBOOK – PART 1 FORMING



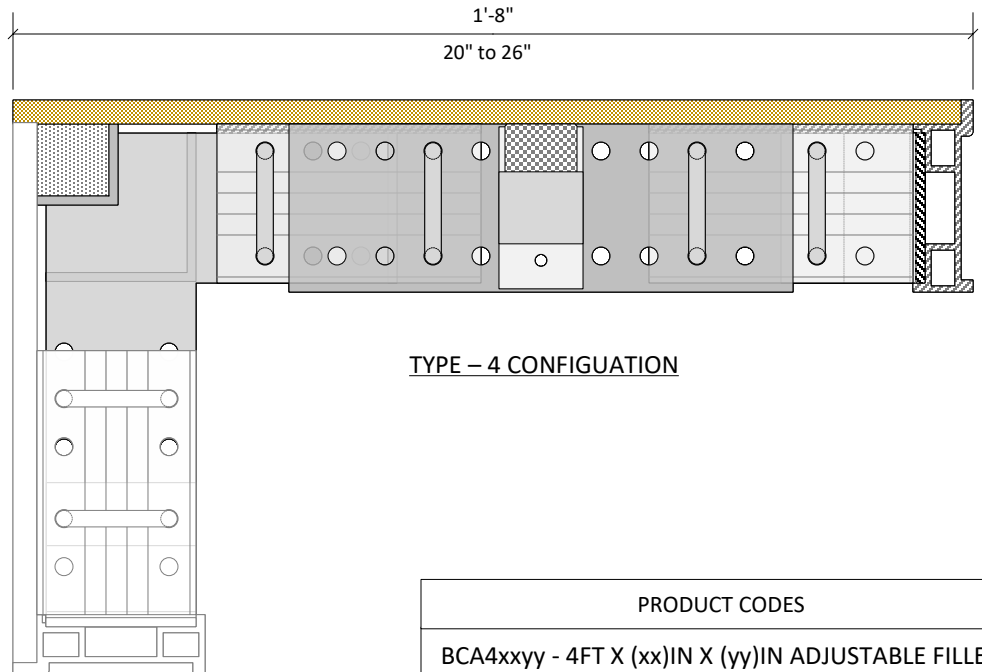
TYPE - 1 CONFIGURATION



TYPE - 2 CONFIGURATION



TYPE - 3 CONFIGURATION (PRIMARY)

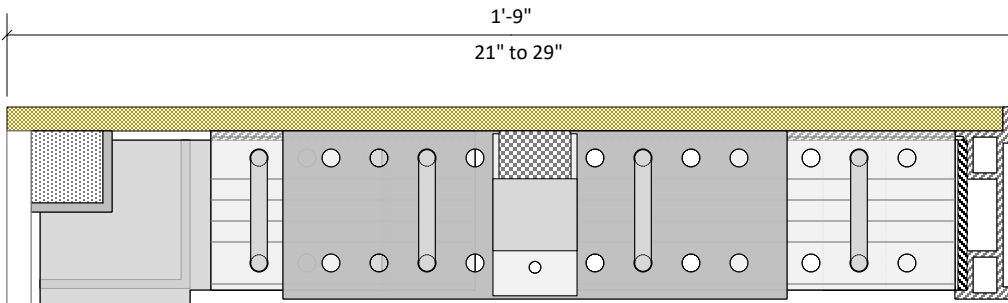


TYPE - 4 CONFIGURATION

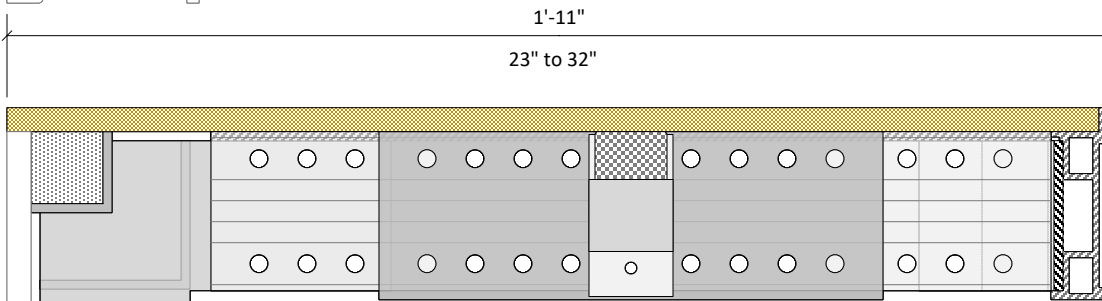
SEE ADJUSTABLE FILLER AND CORNER NOTES ON SHEET 8

PRODUCT CODES

- BCA4xxyy - 4FT X (xx)IN X (yy)IN ADJUSTABLE FILLER
- BCA6xxyy - 6FT X (xx)IN X (yy)IN ADJUSTABLE FILLER
- BCA9xxyy - 9FT X (xx)IN X (yy)IN ADJUSTABLE FILLER

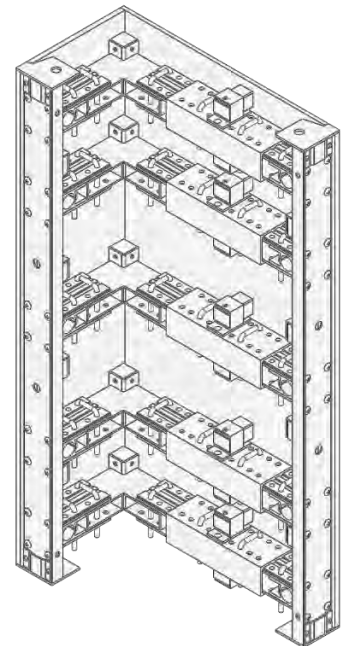


TYPE – 4.5 CONFIGURATION



TYPE – 5 CONFIGURATION (PRIMARY)

TYPICAL ADJUSTABLE CORNER ASSEMBLY



SEE ADJUSTABLE FILLER AND CORNER NOTES ON SHEET 8

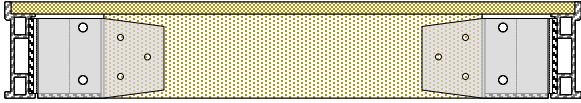
PRODUCT CODES

BCA4xxyy - 4FT X (xx)IN X (yy)IN ADJUSTABLE FILLER
 BCA6xxyy - 6FT X (xx)IN X (yy)IN ADJUSTABLE FILLER
 BCA9xxyy - 9FT X (xx)IN X (yy)IN ADJUSTABLE FILLER

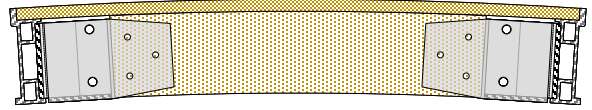
ALLFORM COMPONENT HANDBOOK – PART 1 FORMING

TYPE #1	TYPE #2	TYPE #3	TYPE #4	TYPE #4.5	TYPE #5
(1) PIECE RAIL	(1) PIECE RAIL	(3) PIECE RAIL	(3) PIECE RAIL	(3) PIECE RAIL	(3) 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"

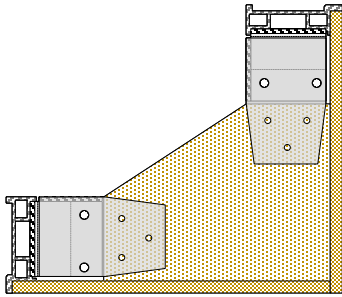
SEE ADJUSTABLE FILLER AND CORNER NOTES ON SHEET 8



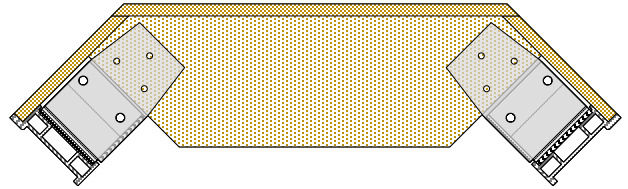
ODD LENGTH STRAIGHT



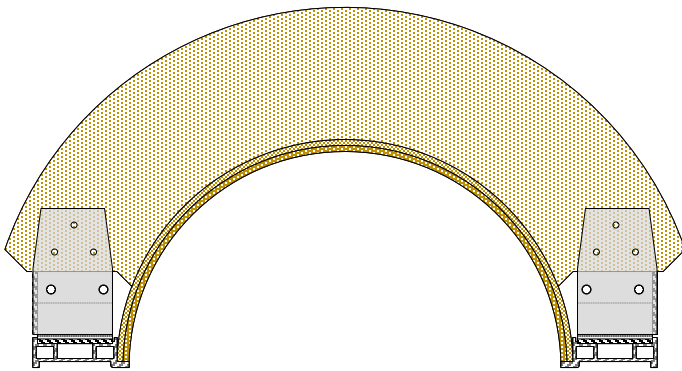
CIRCULAR OR SERPENTINE FORM



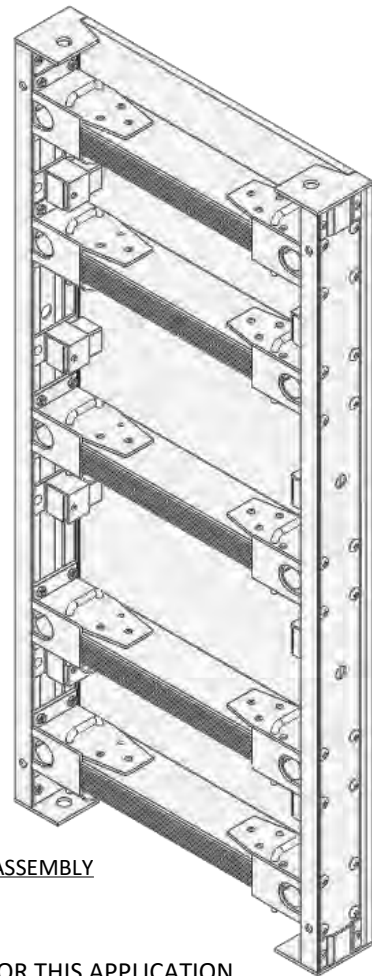
RIGHT ANGLE CORNER (EVEN OR UNEVEN LEGS)



CULVERT OR CHAMFER CORNER



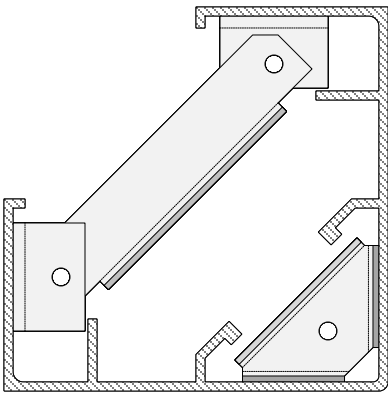
COLUMN OR BULLNOSE



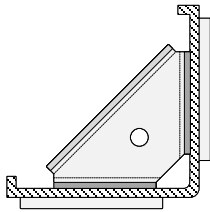
TYPICAL CUSTOM STRAIGHT FILLER ASSEMBLY

CUSTOM LUMBER FILLER USE:

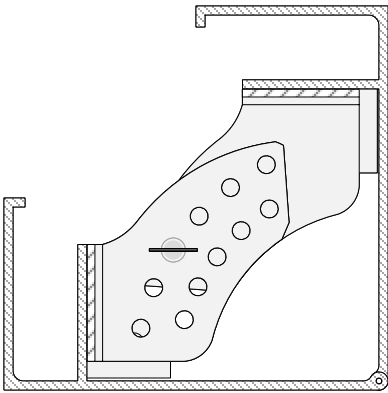
- USE FILLER SIDE RAILS AND LUMBER CLIPS WITH CUSTOM CUT LUMBER INNER RAILS FOR THIS APPLICATION
- LUMBER RAIL SIZE AND SHAPE BASED ON PROJECT DIMENSIONAL AND POUR RATE REQUIREMENTS
- OTHER SHAPES AVAILABLE BASED ON PROJECT REQUIREMENTS
- CONSULT ENGINEERING FOR THE LOAD RATING OF CUSTOM FILLERS



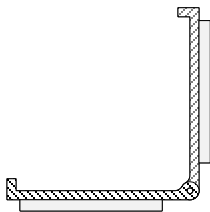
TOP VIEW - 8"X8" 90 DEGREE
INSIDE CORNER



TOP VIEW - 90 DEGREE
OUTSIDE CORNER



TOP VIEW - 8"X8" VARIABLE
ANGLE INSIDE CORNER



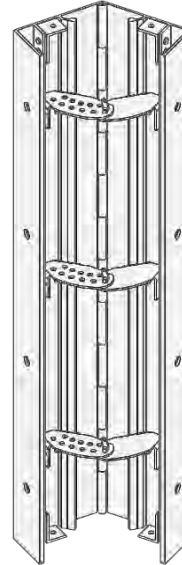
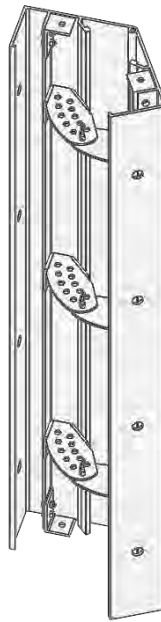
TOP VIEW - VARIABLE ANGLE
OUTSIDE CORNER



90 DEGREE INSIDE CORNER



90 DEGREE OUTSIDE CORNER



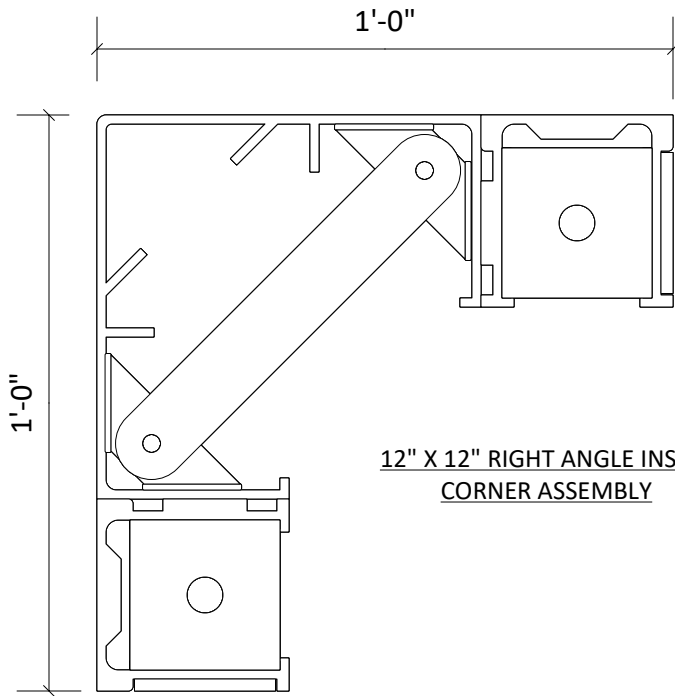
VARIABLE ANGLE INSIDE CORNER



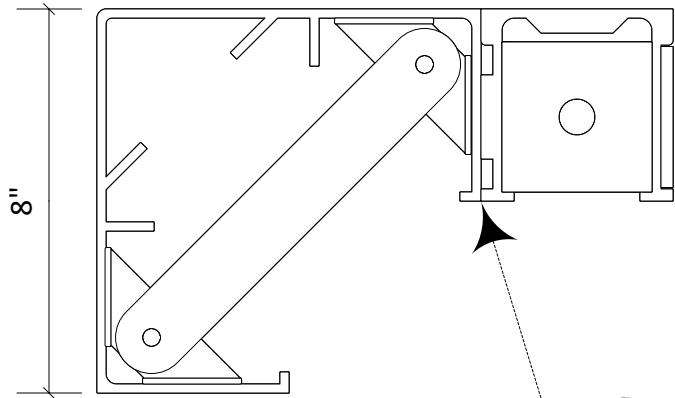
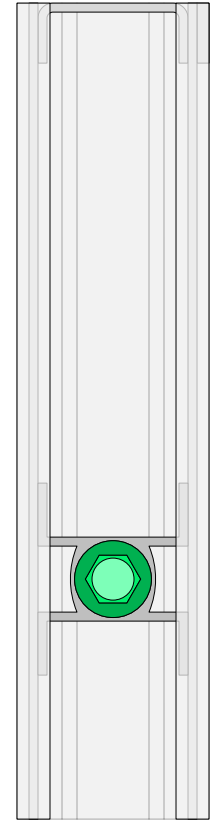
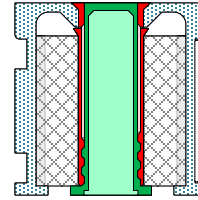
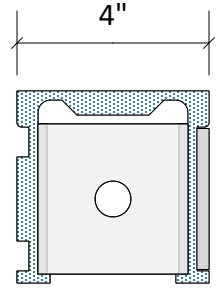
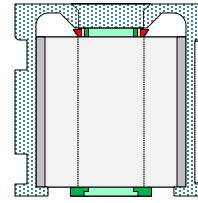
VARIABLE ANGLE OUTSIDE CORNER

PRODUCT CODES

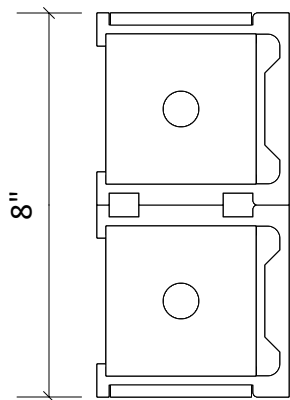
- 83908 - 9' X 8" RIGHT ANGLE INSIDE CORNERS
- 83608 - 6' X 8" RIGHT ANGLE INSIDE CORNERS
- 83408 - 4' X 8" RIGHT ANGLE INSIDE CORNERS
- 84908 - 9' RIGHT ANGLE OUTSIDE CORNER
- 84608 - 6' RIGHT ANGLE OUTSIDE CORNER
- 84408 - 4' RIGHT ANGLE OUTSIDE CORNER
- 85908 - 9' X 8" VARIABLE ANGLE INSIDE CORNERS
- 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



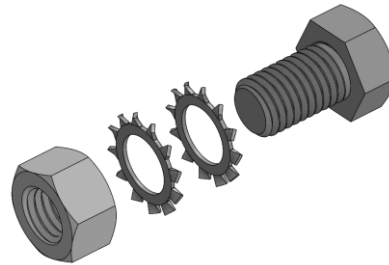
12" X 12" RIGHT ANGLE INSIDE CORNER ASSEMBLY



8" X 12" RIGHT ANGLE INSIDE CORNER ASSEMBLY



8" FILLER ASSEMBLY



4" FILLER

PRODUCT CODES

82904 - 9' x 4" FILLER / CORNER EXTENSION
 82604 - 6' x 4" FILLER / CORNER EXTENSION
 82404 - 4' x 4" FILLER / CORNER EXTENSION

A8391212 - 9' x 12" X 12" RIGHT ANGLE INSIDE CORNER ASSEMBLY
 A8361212 - 6' x 12" X 12" RIGHT ANGLE INSIDE CORNER ASSEMBLY
 A8341212 - 4' x 12" X 12" RIGHT ANGLE INSIDE CORNER ASSEMBLY
 A8390812 - 9' x 8" X 12" RIGHT ANGLE INSIDE CORNER ASSEMBLY
 A8360812 - 6' x 8" X 12" RIGHT ANGLE INSIDE CORNER ASSEMBLY
 A8340812 - 4' x 8" X 12" RIGHT ANGLE INSIDE CORNER ASSEMBLY

A82908 - 9' x 8" FILLER ASSEMBLY
 A82608 - 6' x 8" FILLER ASSEMBLY
 A82408 - 4' x 8" FILLER ASSEMBLY

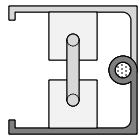


STANDARD RATCHET BINDER WITH 8" WHEEL OR LEVER ARM

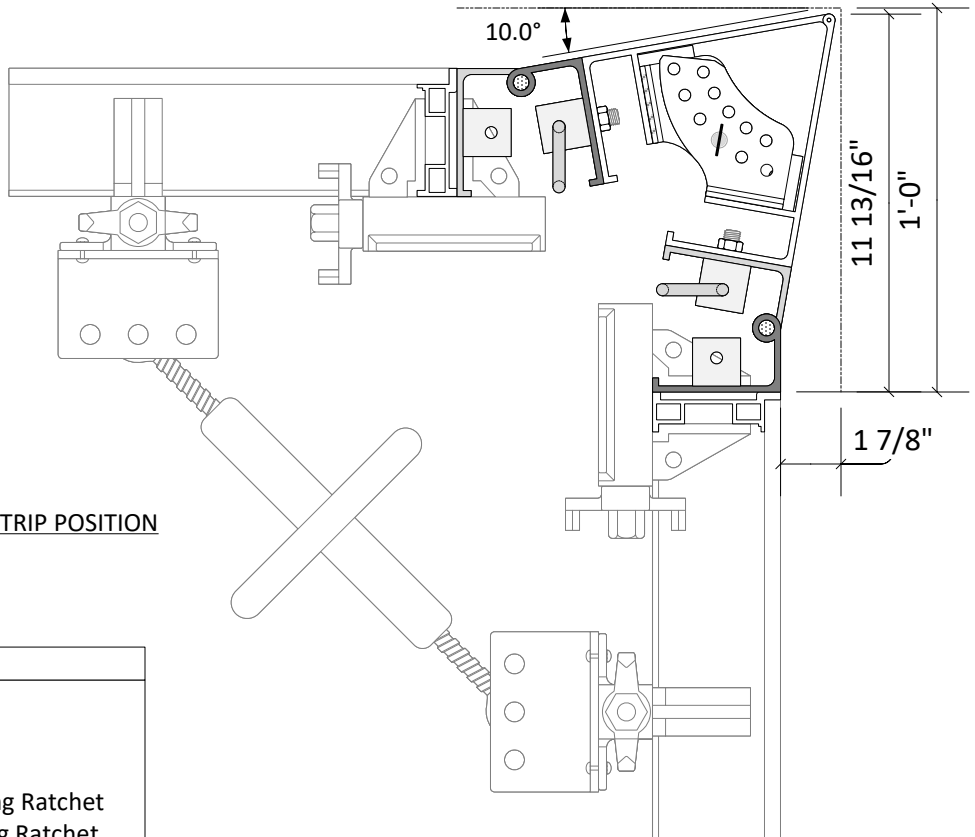
STANDARD CLAMP WITH ONE-WAY ACCESSORY CLIP

POUR POSITION

1'-0"



4" ALUMINUM STRIPPING HINGE



STRIP POSITION

10.0°

11 13/16"

1'-0"

1 7/8"

PRODUCT CODES

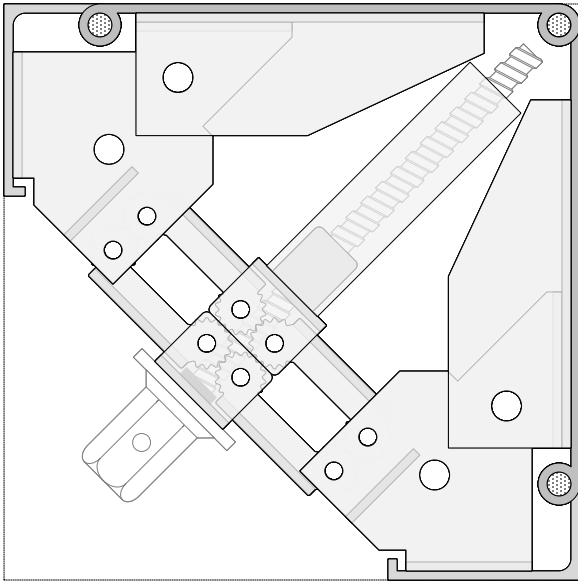
87904 - 9' X 4" STRIPPING HINGE

87604 - 6' X 4" STRIPPING HINGE

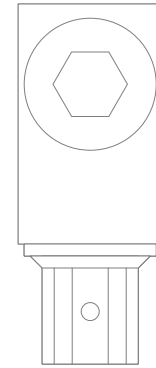
87404 - 4' X 4" STRIPPING HINGE

88406 - Core Assembly - Wheel Arm Stripping Ratchet

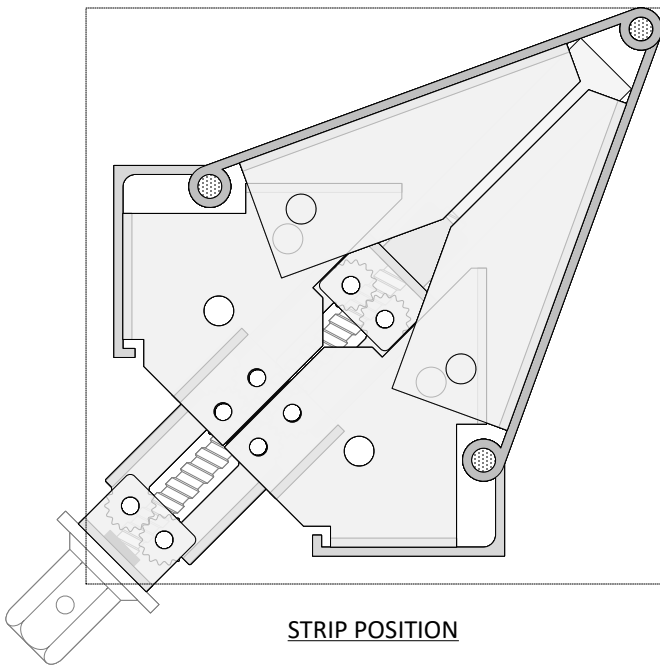
88407 - Core Assembly - Lever Arm Stripping Ratchet



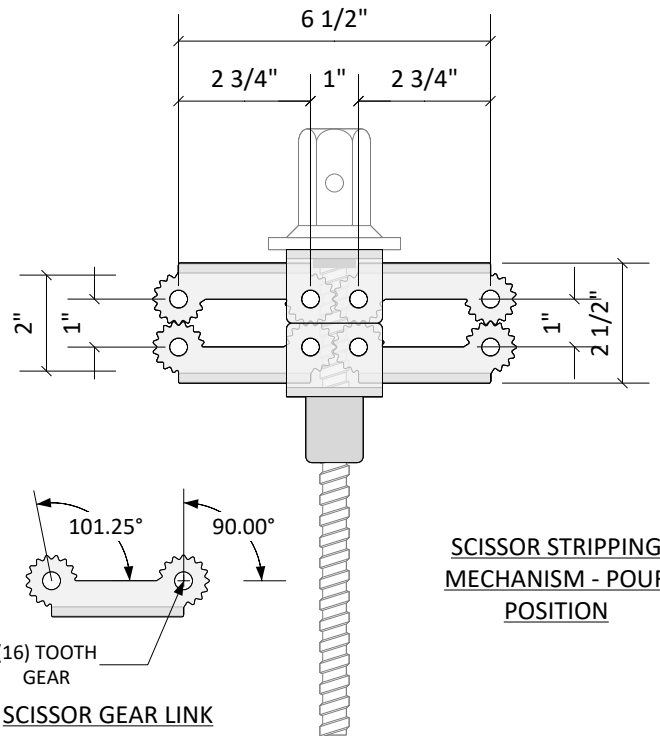
POUR POSITION



**SINGLE POINT
STRIPPING TOOL
(HEIGHTS TBD)**



STRIP POSITION



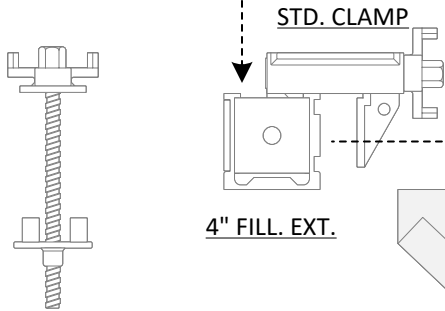
**SCISSOR STRIPPING
MECHANISM - POUR
POSITION**

**(16) TOOTH
GEAR
SCISSOR GEAR LINK**

PRODUCT CODES

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

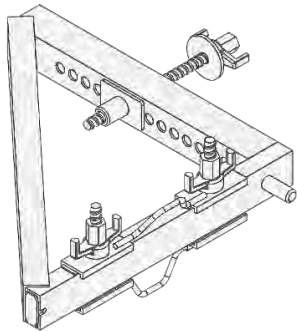
WHEN CLAMPING ON A 4" FILLER CORNER / EXTENSION REMOVE THE GREEN TIE PLUG AND INSTALL BLUE INSERT @ TIE LOCATIONS SAME AS FOR STD. PANELS



4" FILL. EXT.

STD. CLAMP

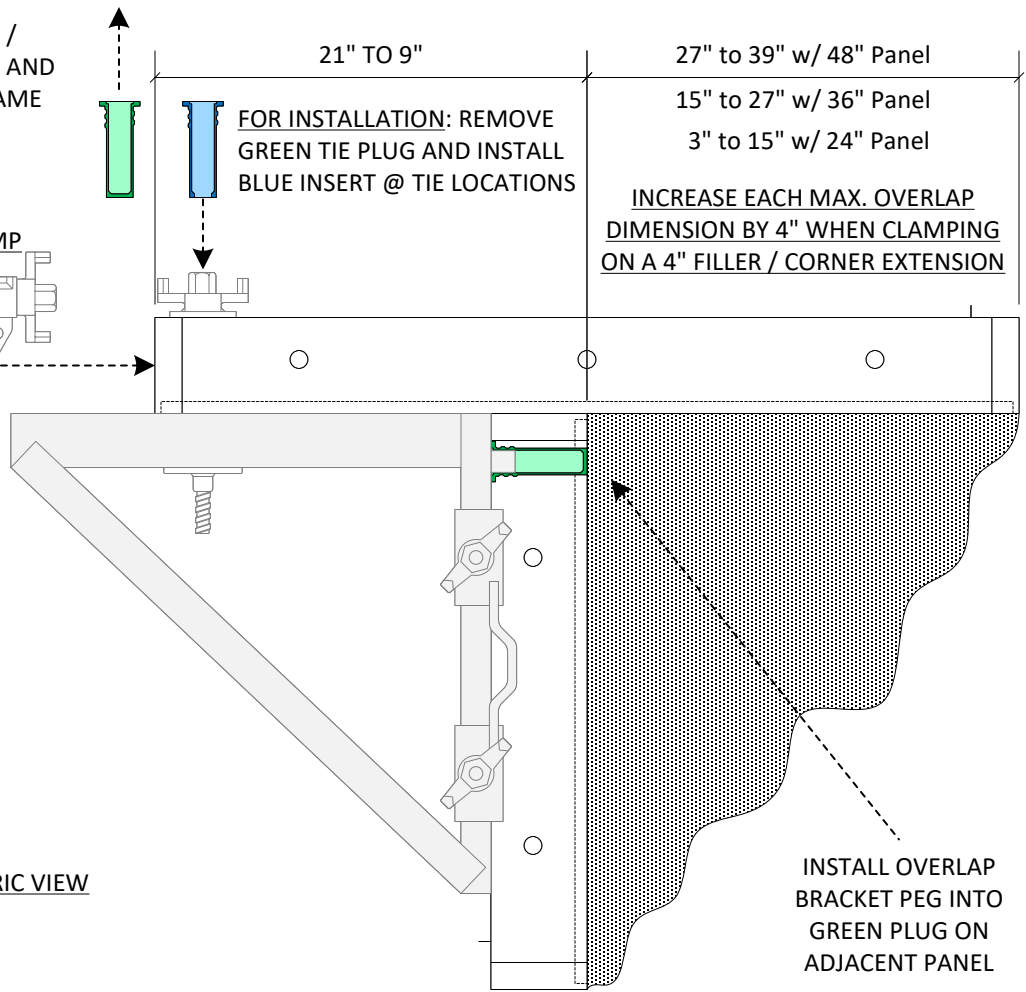
OVERLAP BRACKET TIE ROD ASSEMBLY (INSTALLS THRU BLUE INSERT)



ISOMETRIC VIEW

FOR INSTALLATION: REMOVE GREEN TIE PLUG AND INSTALL BLUE INSERT @ TIE LOCATIONS

INCREASE EACH MAX. OVERLAP DIMENSION BY 4" WHEN CLAMPING ON A 4" FILLER / CORNER EXTENSION

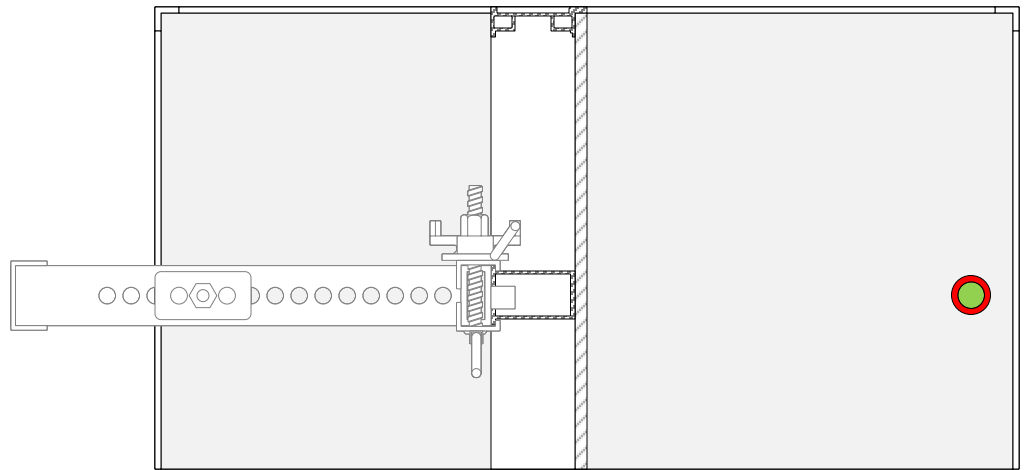


PLAN VIEW

INSTALL OVERLAP BRACKET PEG INTO GREEN PLUG ON ADJACENT PANEL

OVERLAP BRACKET (WITHOUT FILLER SIDERAIL) INSTALLATION STEPS

1. REMOVE GREEN PLUG AT BRACKET TIE ROD LOCATION
2. INSTALL BLUE INSERT AT BRACKET TIE ROD LOCATION
3. INSTALL BRACKET PEG INTO GREEN PLUG ON ADJACENT PANEL
4. USING HANDLES, INSTALL BRACKET CONNECTOR PLATES ONTO ADJACENT PANEL INNER RAIL
5. TIGHTEN WING NUTS TO ENGAGE CONNECTOR PLATES ON INNER RAIL OF ADJACENT PANEL
6. INSTALL TIE ROD ASSEMBLY (ENSURE SET NUT PEGS ARE ENGAGED INTO OVERLAP BRACKET)



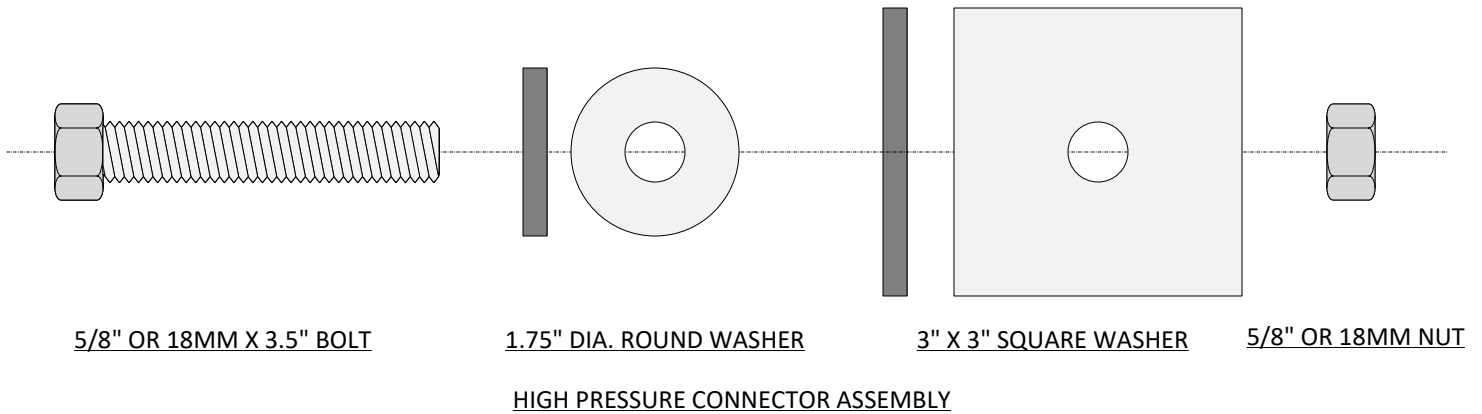
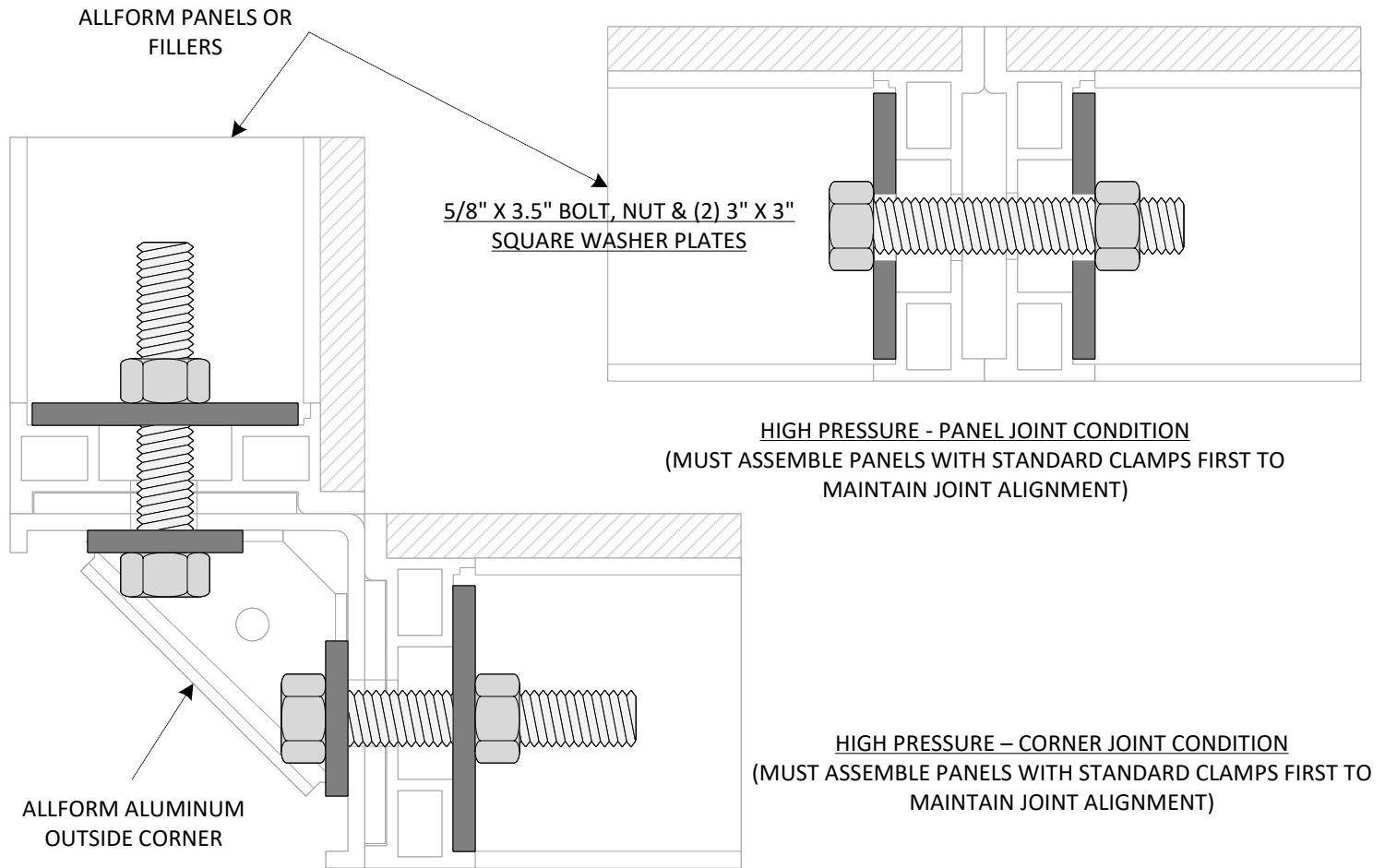
SECTION VIEW

OVERLAP BRACKET MAXIMUM ALLOWABLE PRESSURE:

VERTICAL SPACING >>	2'	3'	4'	5'
2' PANEL	2,000 PSF	2,000 PSF	1,500 PSF	1,200 PSF
3' PANEL	1,750 PSF	1,750 PSF	1,300 PSF	1,050 PSF
4' PANEL	1,500 PSF	1,500 PSF	1,125 PSF	900 PSF

PRODUCT CODES

- 88005 - OVERLAP CORNER BRACKET (OCB)
- 88006 - OVERLAP CORNER BRACKET - WING NUT TIE ROD
- 88007 - OVERLAP CORNER BRACKET - HOLE SET TIE NUT



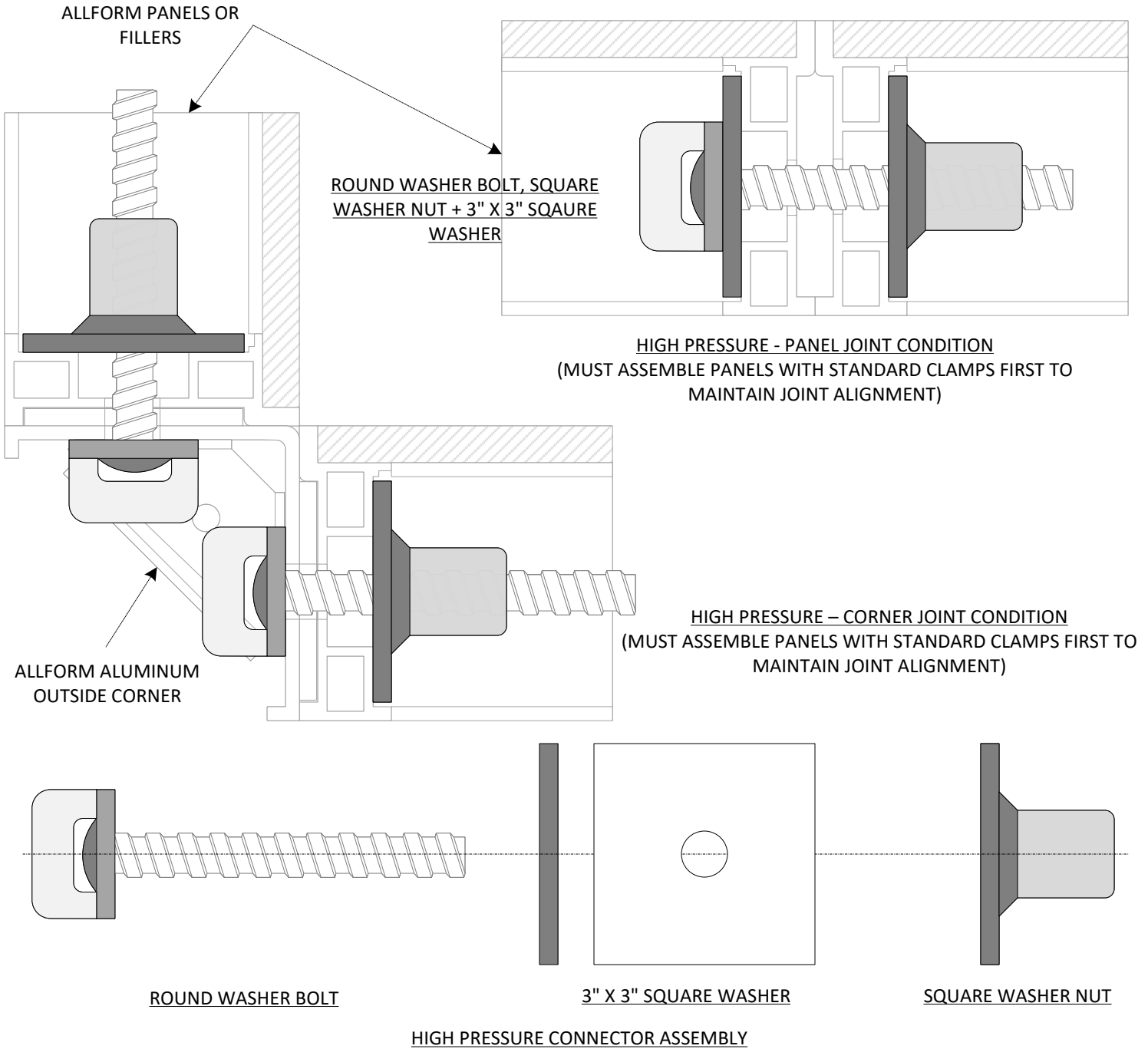
NOTE:

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

- 88025 - HIGH PRESSURE CONNECTOR - (4) PCS ORIGINAL ASSEMBLY
- 88026 - HIGH PRESSURE CONNECTOR - SQUARE WASHER



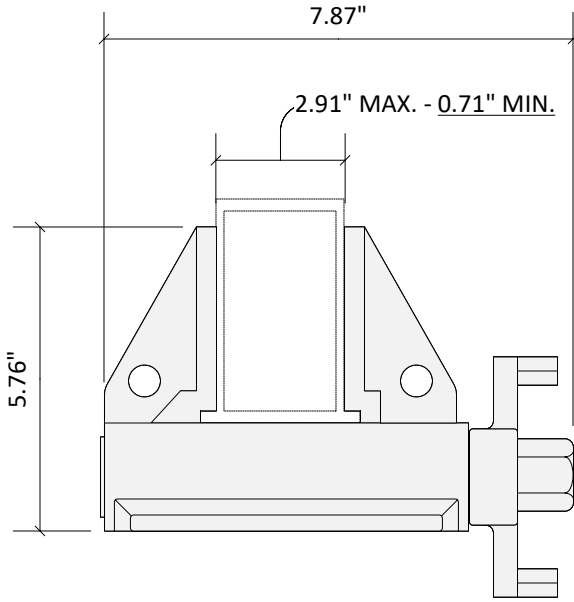
NOTE:

USE WITH ALUMINUM OUTSIDE CORNERS FOR THE FOLLOWING CONDITIONS:

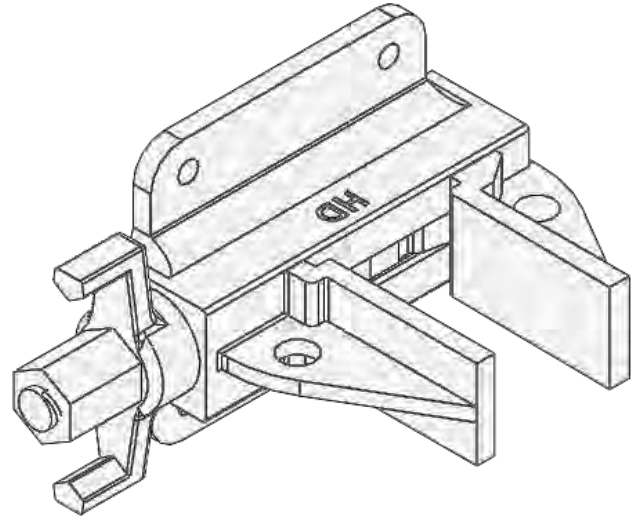
- HIGHER EXPECTED POUR PRESSURES;
- LARGE FORM WIDTHS AT OUTSIDE CORNERS THAT INCREASE LOADS (EX. TALL COLUMNS, EXTREME VIBRATING, LARGE WALL THICKNESS, ETC.)

PRODUCT CODES

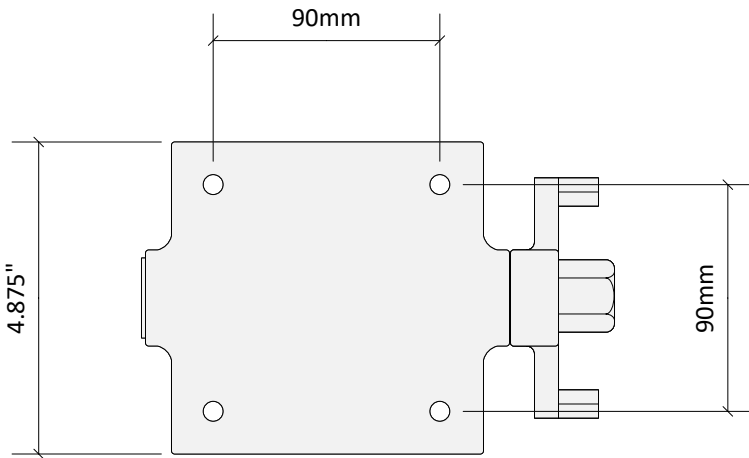
- 88023 - HIGH PRESSURE CONNECTOR - BOLT W/ ROUND WASHER
- 88024 - HIGH PRESSURE CONNECTOR - SQUARE WASHER W/ FERRULE
- 88026 - HIGH PRESSURE CONNECTOR - SQUARE WASHER



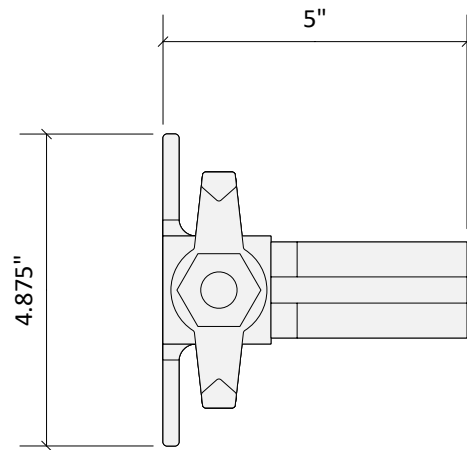
SIDE VIEW



ISOMETRIC VIEW



FRONT VIEW



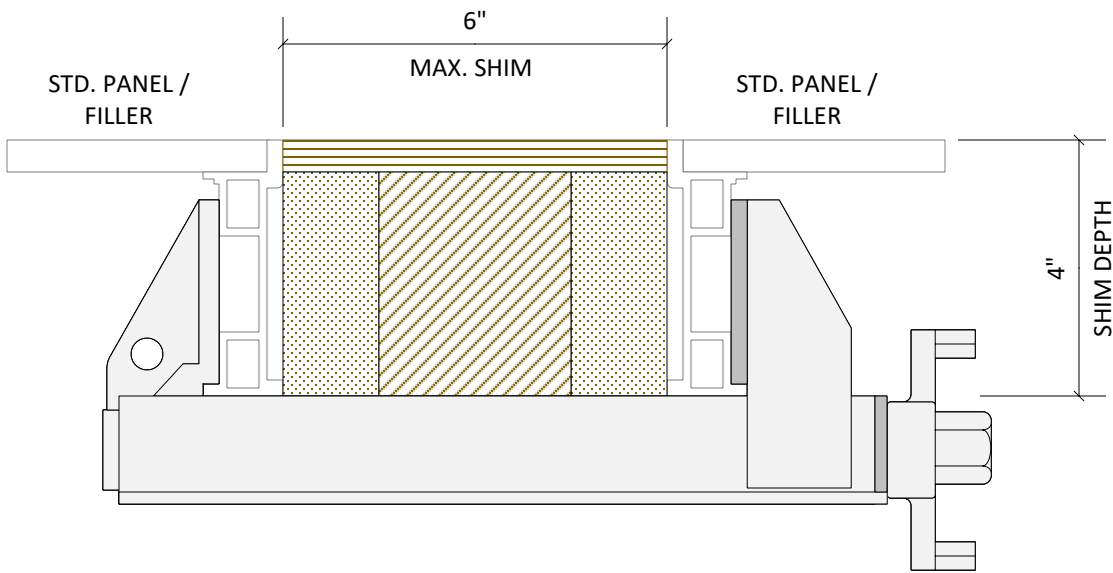
PLAN VIEW

STANDARD CLAMP USE:

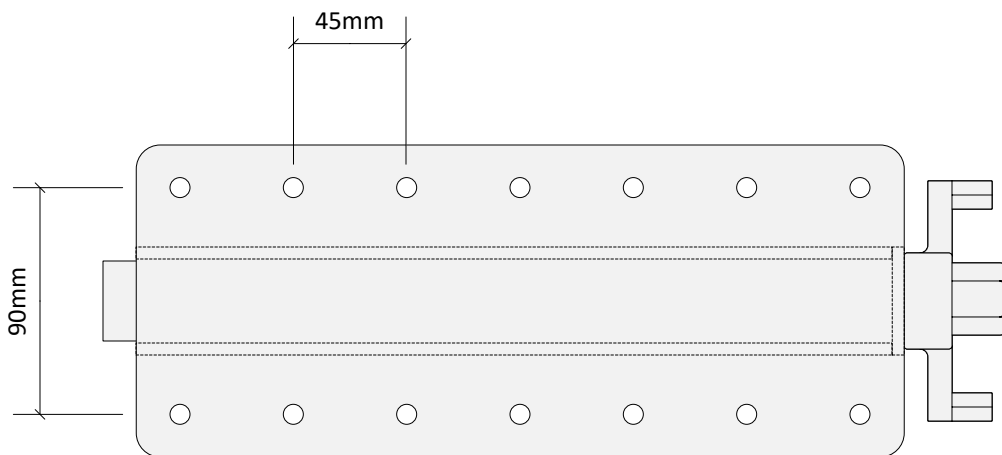
- USE TO CLAMP FORMWORK PANELS AND ADJUSTABLE FILLERS SIDE BY SIDE OR TOP TO BOTTOM
- ATTACHMENT: 1) PANEL INNER RAILS 2) PANELS AND FILLER SIDERAIL PAIRS 3)SIDERAIL & STD. 2X4 (ALL LUMBER FILLERS)
- USE AS A MULTI-FUNCTION ACCESSORY CONNECTOR BY PAIRING WITH ACCESSORY CLIPS OR OTHER COMPONENTS. PAIRED 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

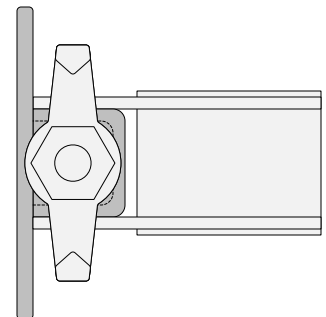
88001 - STANDARD CLAMP



SIDE VIEW



FRONT VIEW



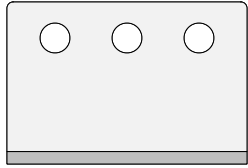
PLAN VIEW

NON-STANDARD CLAMP USE:

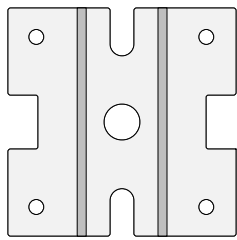
- USE TO CLAMP FORMWORK PANELS OR FILLERS WITH UP TO A 6" WIDE SHIM BETWEEN THE SIDERAILS, ALSO CLAMP STANDARD PANELS AND FILLERS SIDE BY SIDE OR TOP TO BOTTOM WITHOUT SHIMS
- ATTACHMENT: 1) PANEL INNER RAILS 2) PANELS AND FILLER SIDERAIL PAIRS 3)SIDERAIL & STD. 2X4 (ALL LUMBER FILLERS)
- USE AS A MULTI-FUNCTION 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

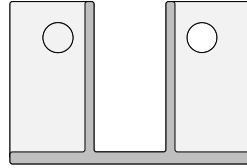
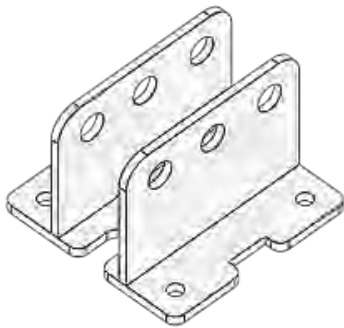
88000 - NON-STANDARD CLAMP (WOOD FILLER / SHIM)



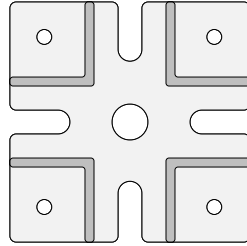
SIDE VIEW



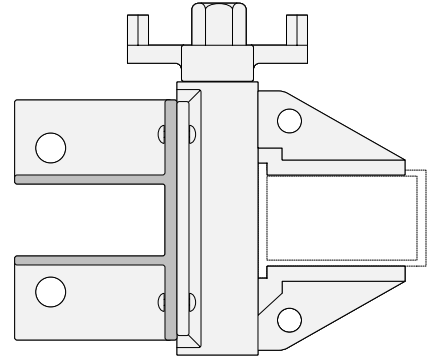
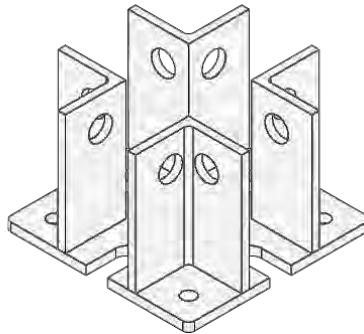
TOP VIEW



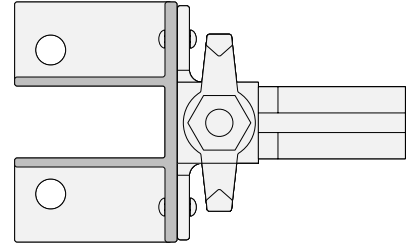
SIDE VIEW



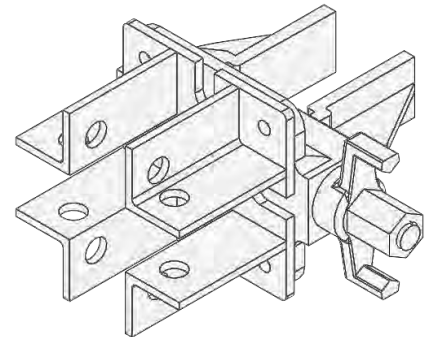
TOP VIEW



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 ANCHOR BOLT SPECIFICATIONS (SEE MFG. RECOMMENDATIONS)
- COMPONENT ALSO USED FOR VARIOUS SHORING APPLICATIONS

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 ANCHOR BOLT SPECIFICATIONS (SEE MFG. RECOMMENDATIONS)

TWO-WAY CLIP / STD CLAMP:

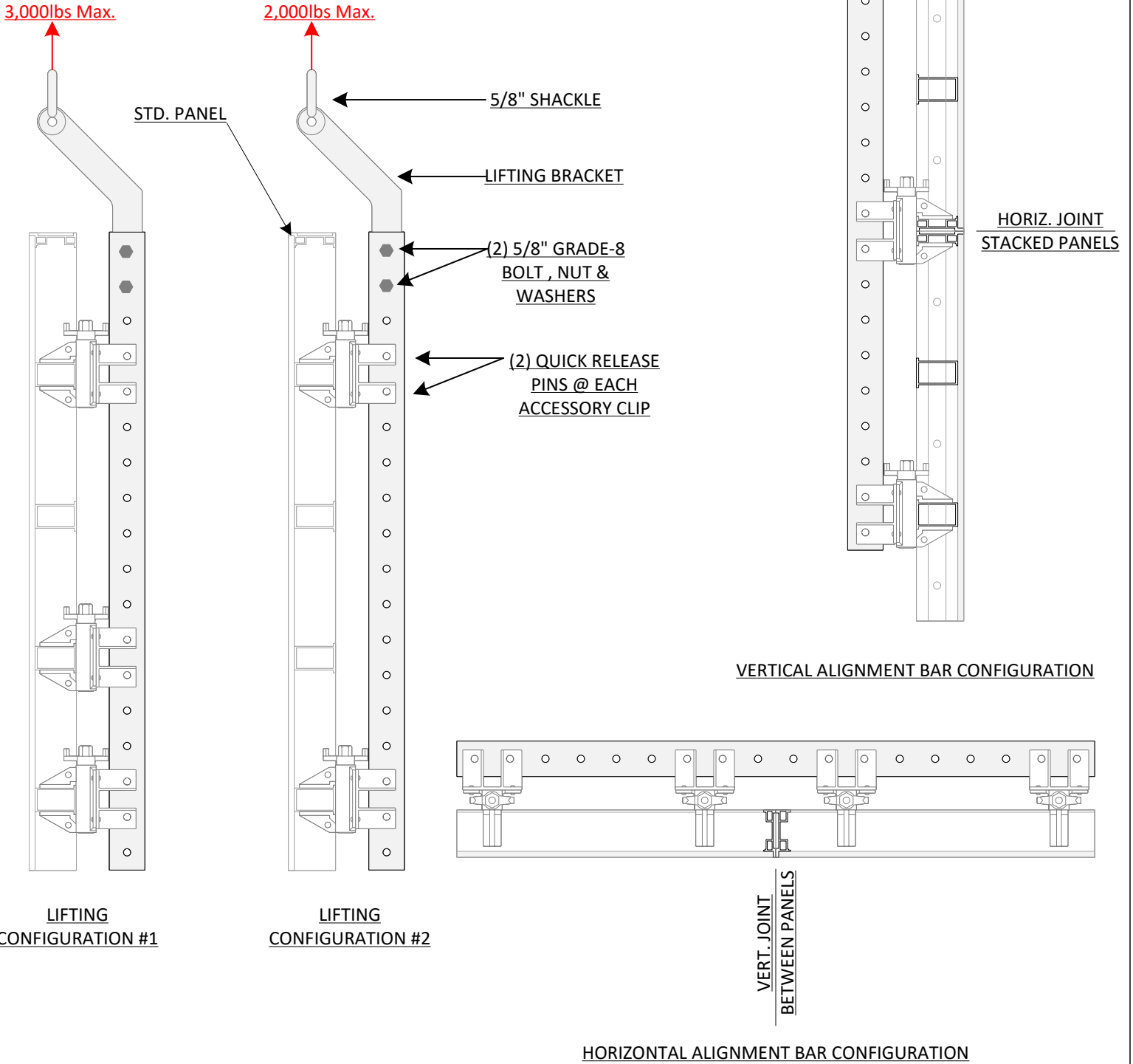
- PAIR WITH STD. CLAMP AND USE FOR PIPE BRACE HEAD CONNECTOR, ALIGNMENT BAR INSTALLATION OR LIFTING BAR APPLICATIONS
- CAPACITY BASED ON APPLICATION: PIPE BRACE HEAD OR ALIGNMENT BAR – 5,000LBS; LIFTING BAR – (SEE LIFTING DETAILS)

PRODUCT CODES

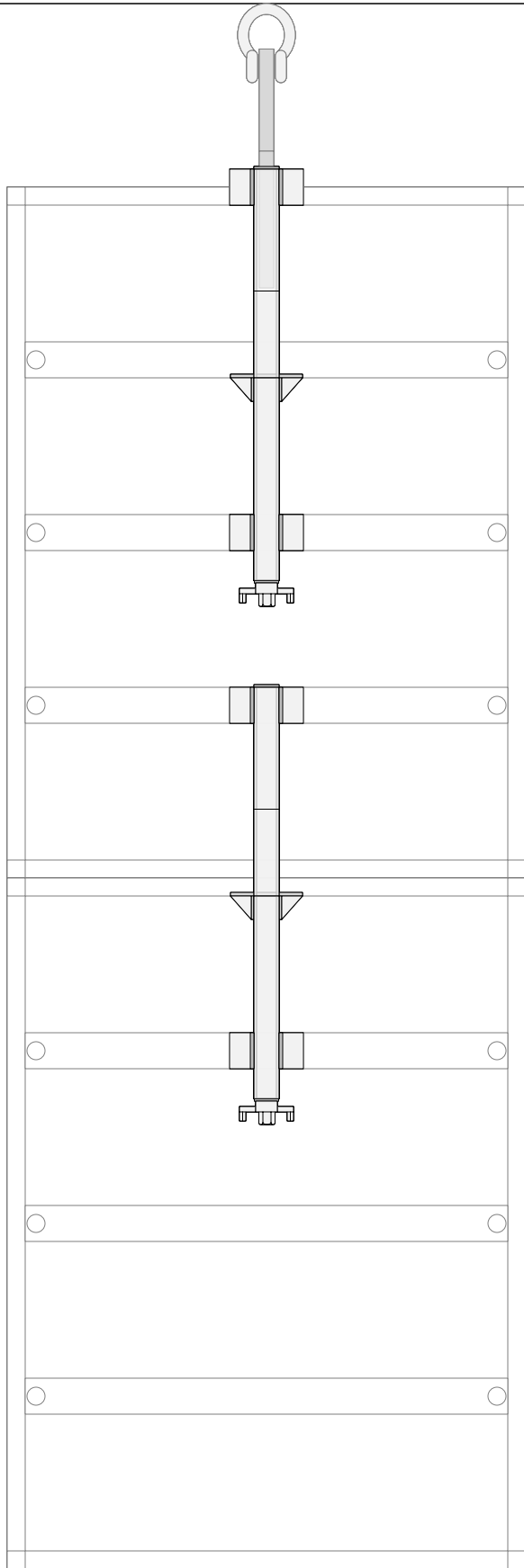
- 88002 - TWO-WAY ACCESSORY CLIP
- A88002 - STANDARD CLAMP + TWO-WAY ACCESSORY CLIP
- 88022 - ONE-WAY ACCESSORY CLIP WITH TETHERED PINS

THE ALIGNMENT BAR IS USED FOR VARIOUS APPLICATIONS NOTED BELOW:

- HORIZONTAL STIFFENER FOR LOG GANGS
- VERTICAL STIFFENER WHEN STACKING PANELS
- GANG LIFTING ASSEMBLY
- VERTICAL GUARDRAIL POST FOR WALKWAY BRACKETS
- **ALLOWABLE LOADINGS ARE BASED ON CONFIGURATION**



PRODUCT CODES
88008 - ALIGNMENT BAR (54") - STEEL
88009 - LIFTING BRACKET PLATE W/ SHACKLE KIT



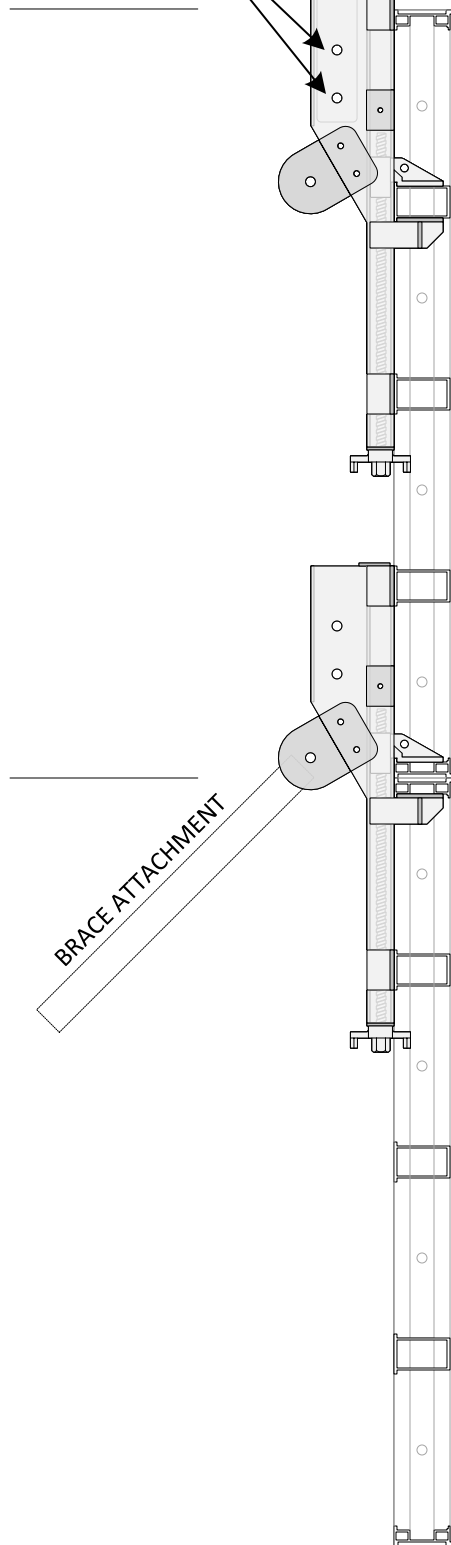
(2) 5/8" GRADE-8
BOLT, NUT &
WASHERS

1,500lbs Max.

5/8" SHACKLE

LIFTING BRACKET

POSITION CLAMP
FOR LIFTING PANELS



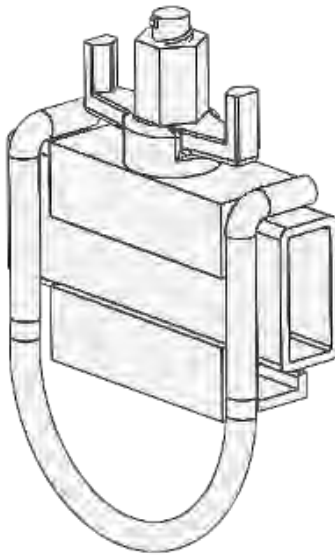
POSITION CLAMP
FOR STACKING
PANELS

BRACE ATTACHMENT

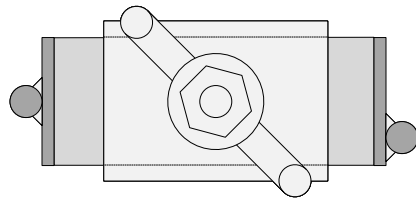
PRODUCT CODES

88037 - STACKING / LIFTING CLAMP
88009 - LIFTING BRACKET PLATE W/ SHACKLE KIT

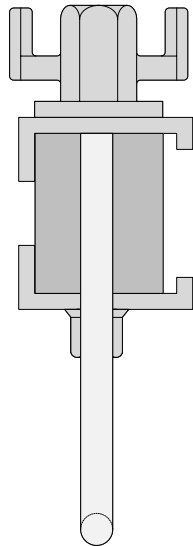
STACKING / LIFTING CLAMP



ISOMETRIC VIEW

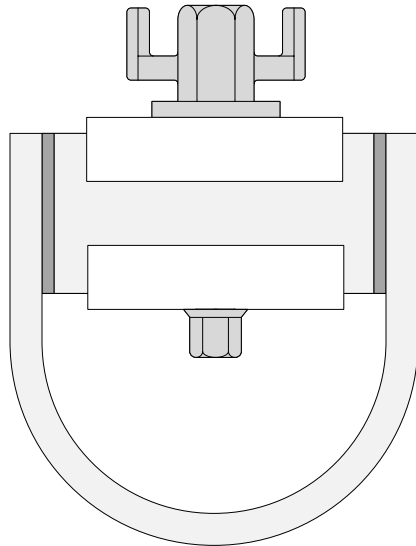


TOP VIEW

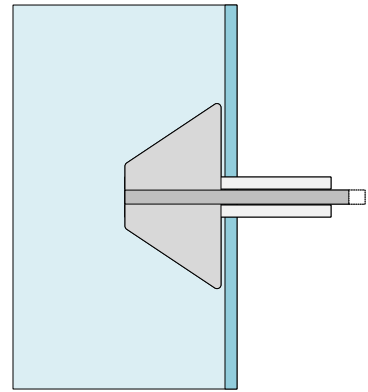


SIDE VIEW

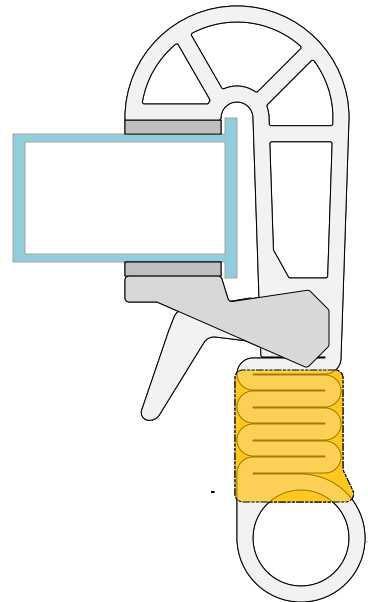
PERSONAL TIE-OFF POINT



FRONT VIEW



TOP VIEW



SIDE VIEW

LANYARD TIE-OFF ACCESSORY
(SALE ITEM ONLY)

LANYARD ATTACHED HERE

PERSONAL TIE-OFF BRACKET USE:

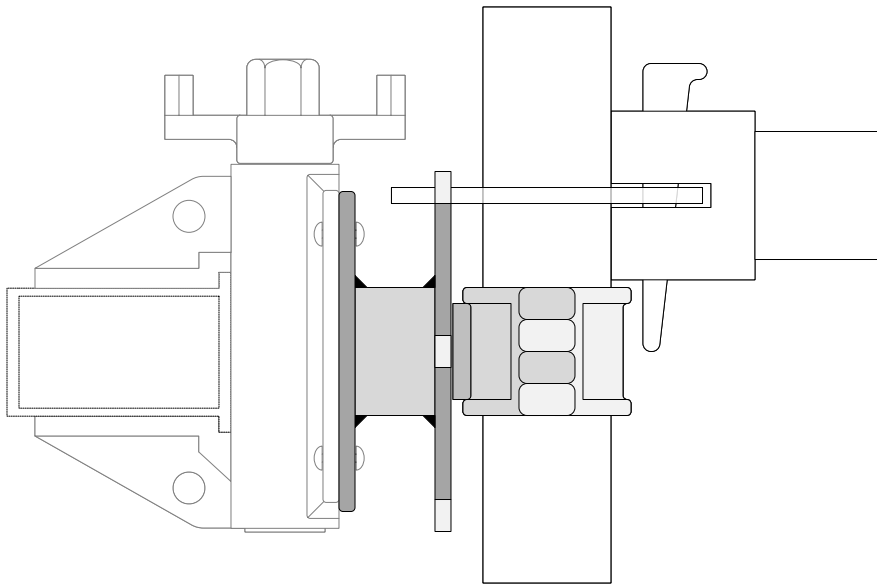
- PRE-ASSEMBLE TIE-POINTS ON GANGS PRIOR TO SETTING WALL FORMWORK INTO POSITION
- PLACE AT OPTIMAL INTERVALS VERTICALLY AND HORIZONTALLY TO ACCOMMODATE TIE-OFF POLICY. GENERALLY USED AT ALL WORKER ACCESS LOCATIONS, SUCH AS PLANKED WALKWAY BRACKETS OR OTHER ACCESSABLE LOCATIONS. ALSO USE TO ADD TIE-POINTS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

LANYARD TIE-OFF ACCESSORY USE:

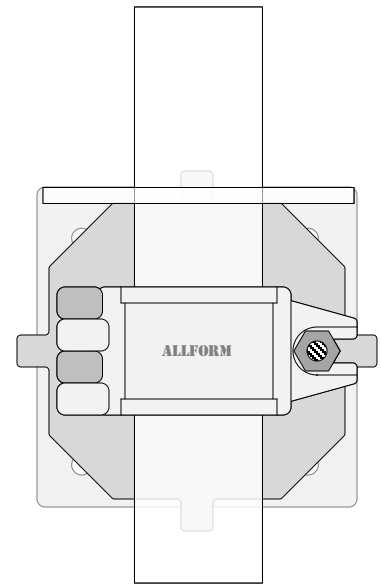
- ATTACH TO EACH OF AN APPROVED DOUBLE HARNESS / LANYARD AND USE TO CLIMB FORMWORK, MAKING SURE ONE IS ATTACHED TO FORMWORK PANEL BEFORE MOVING THE OTHER
- CAPACITY MEETS OR EXCEEDS OSHA REQUIREMENTS FOR PERSONAL TIE-OFF POINT

PRODUCT CODES

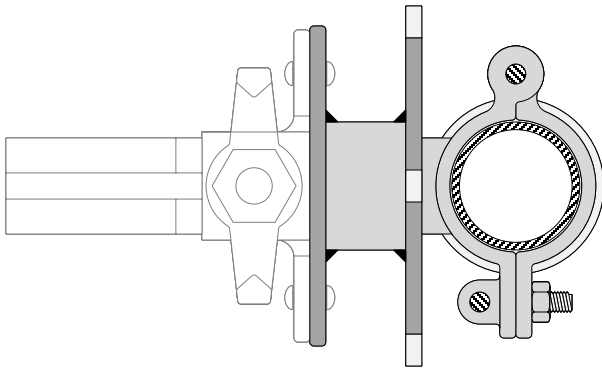
88003 - PERSONAL TIE-OFF BRACKET
89012 - LANYARD TIE-OFF ACCESSORY



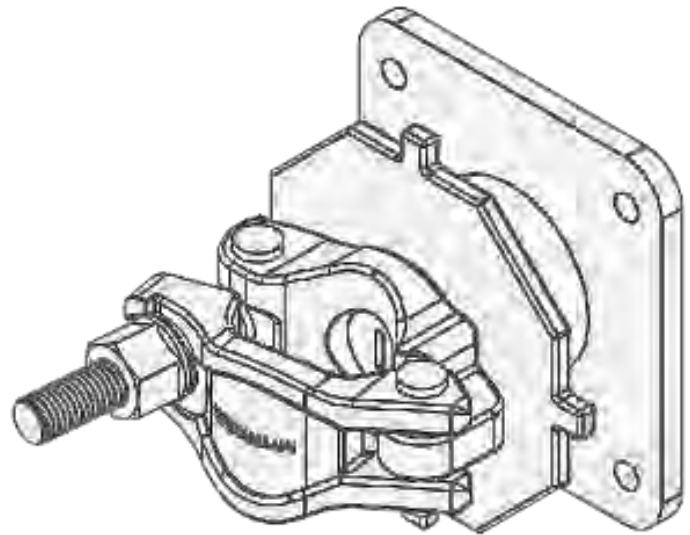
SIDE VIEW



FRONT VIEW



TOP VIEW



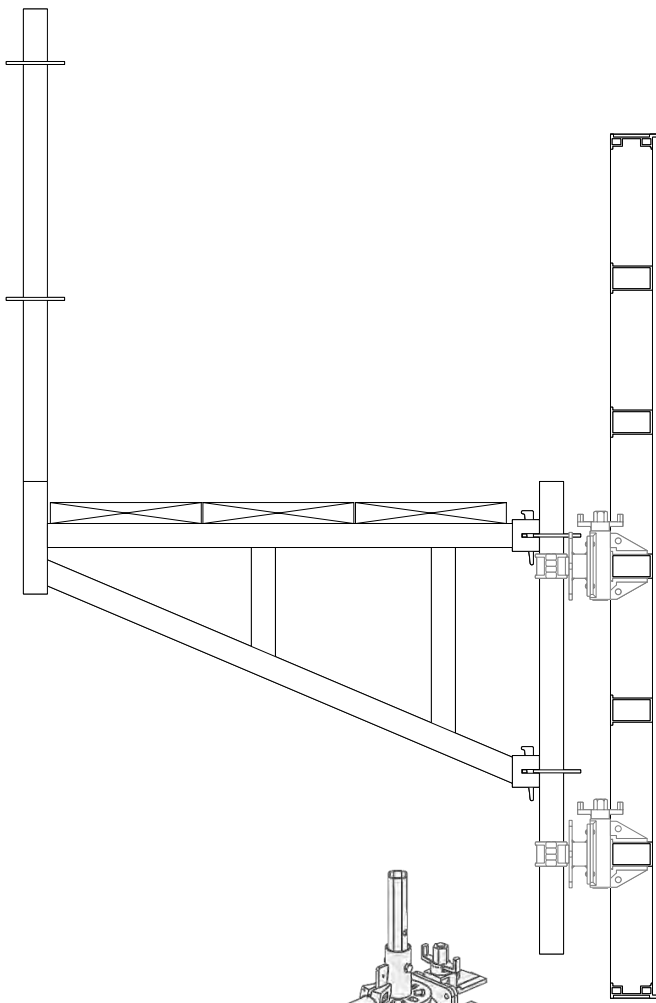
ISOMETRIC VIEW

RINCKLOCK POST ADAPTER USE:

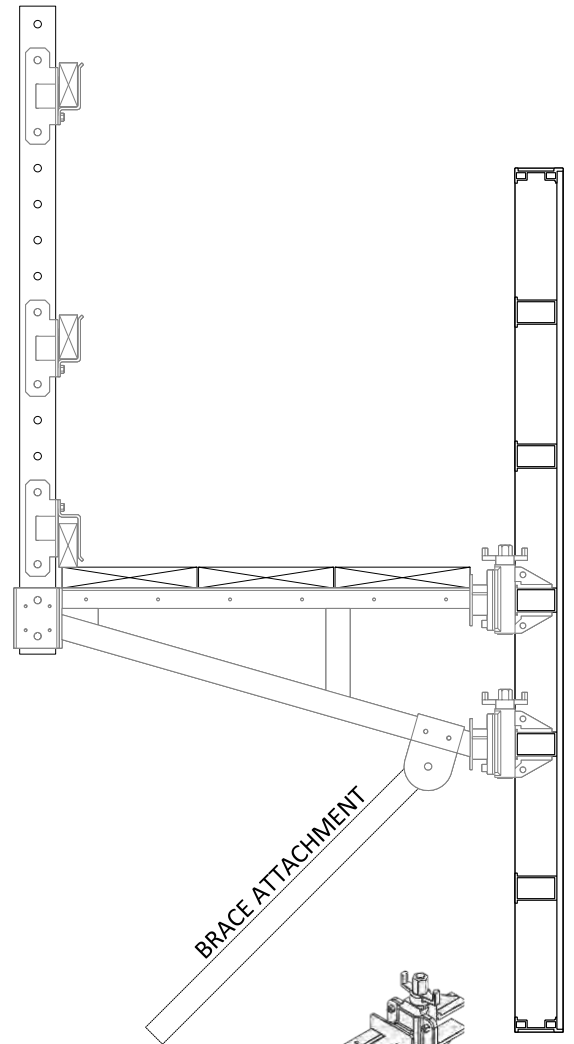
- ATTACH TO STANDARD CLAMP TO MAKE FULL ASSEMBLY
- USE WITH RINGLOCK SCAFFOLDING TO ATTACH VERTICAL POST TO FORMWORK
- ATTACH PLANK BRACKETS OR BUILD FULL SCAFFOLD TO PROVIDE WORKER ACCESS AS REQUIRED
- THIS ACCESSORY MAINTAINS THE RINGLOCK SYSTEM'S CAPABILITY TO PROVIDE SAFE TIE-OFF POINTS FOR CRAFTSMEN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

PRODUCT CODES

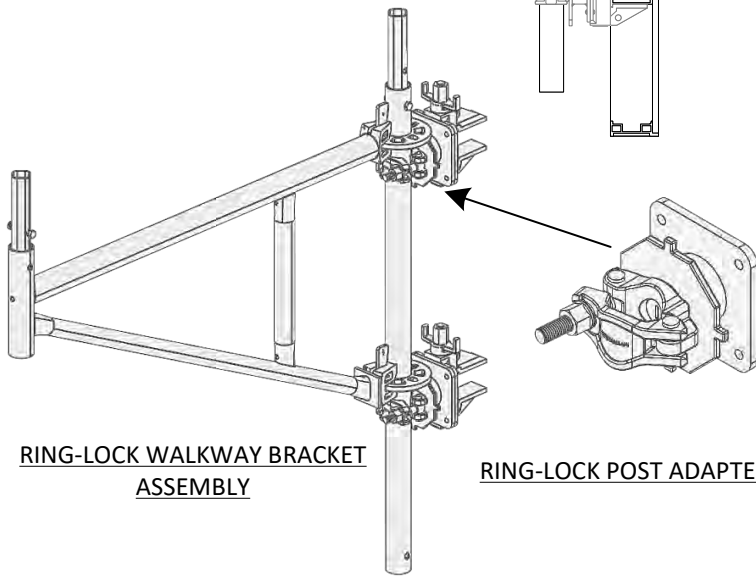
- 88004 - SCAFFOLD BRACKET POST ADAPTOR (RING-LOCK)
- A88004 - STANDARD CLAMP + SCAFFOLD BKT POST ADAPTOR (RING-LOCK)



RING-LOCK WALKWAY BRACKET ASSEMBLY



STANDARD WALKWAY BRACKET ASSEMBLY



RING-LOCK POST ADAPTER

RINGLOCK SCAFFOLD BRACKET USE:

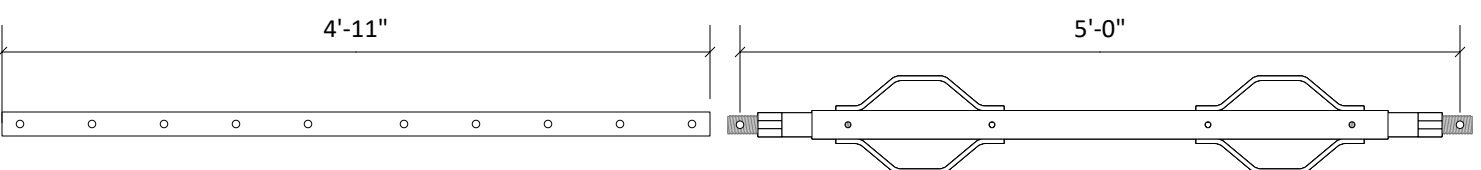
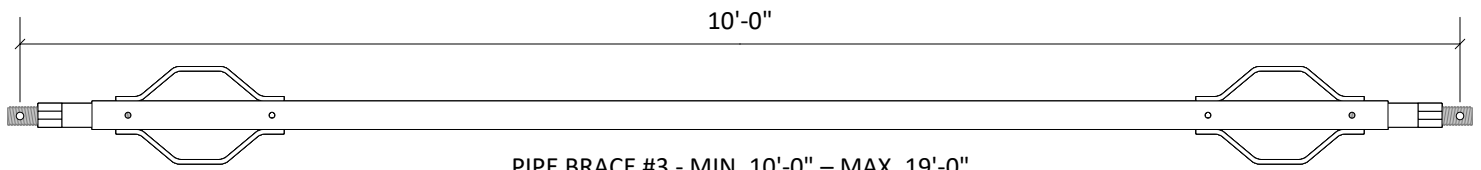
- USE STEEL OR WOOD SCAFFOLD PLANKING
- USE PIN-LOCK VERTICAL AS GUARDRAIL POST
- USE PIN-LOCK HORIZONTALS AS GUARDRAILS
- BUILD SCAFFOLD ACCESS WITH PLANK BRACKETS OR FULL SCAFFOLD TO PROVIDE WORKER ACCESS
- 10'-0" MAXIMUM SPACING FOR 25PSF LOADING
- 8'-0" MAXIMUM SPACING FOR 50PSF LOADING
- 6'-0" MAXIMUM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

STANDARD WALKWAY BRACKET USE:

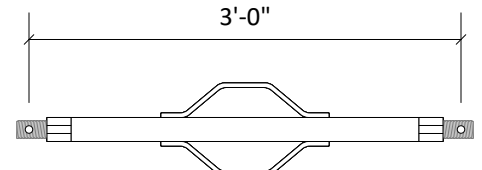
- USE WOOD SCAFFOLD PLANKING OR ALUMINUM JOIST
- USE SIZED LUMBER, STEEL OR ALUM. GUARDRAIL POST
- USE SIZED LUMBER OR SHORING LEDGERS AS GUARDRAILS
- COMPONENT INCLUDES FEATURE FOR PIPE BRACE ATTACHMENT
- 10'-0" MAXIMUM SPACING FOR 25PSF LOADING
- 8'-0" MAXIMUM SPACING FOR 50PSF LOADING
- 6'-0" MAXIMUM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

PRODUCT CODES

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

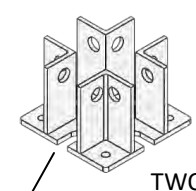
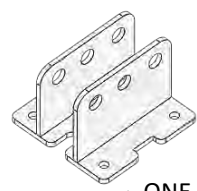
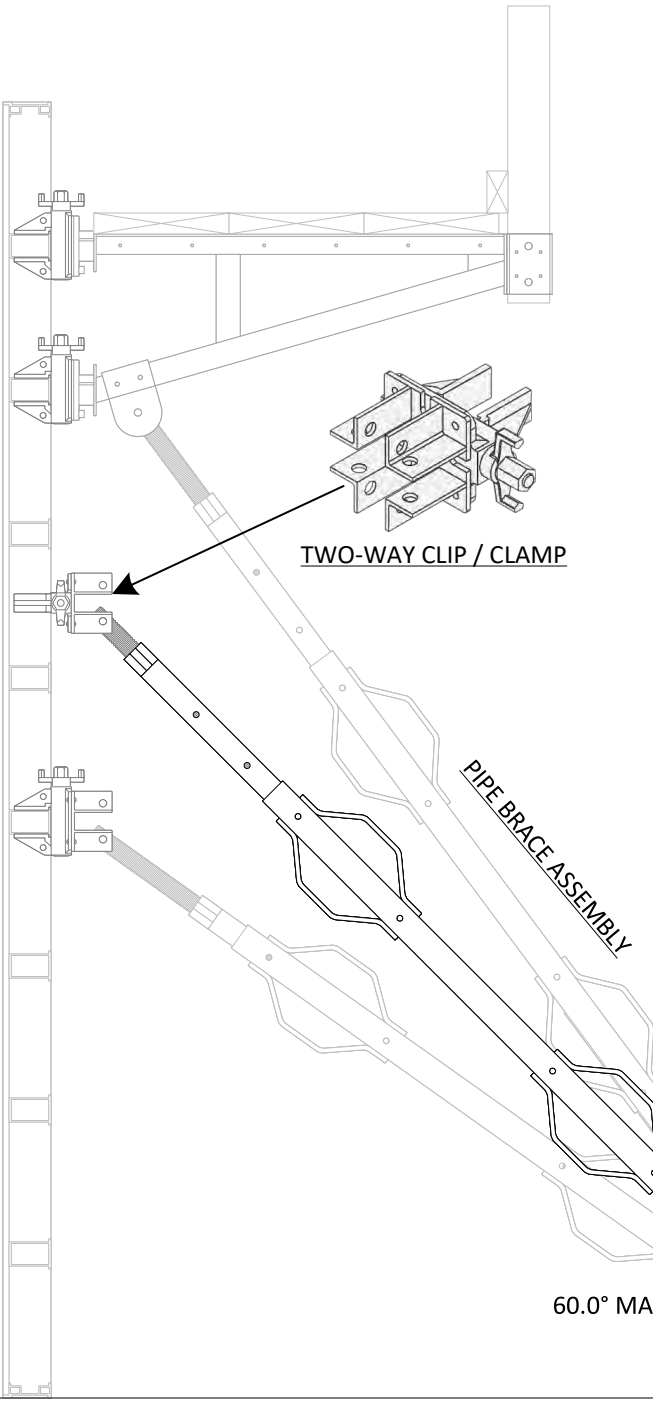


59" PIPE BRACE - CENTER EXTENSION
(NON-STANDARD PART - LIMITED STOCK)



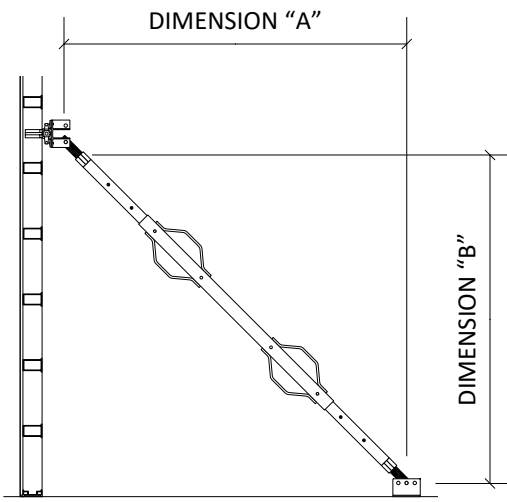
PIPE BRACE USE:

- USE ONE-WAY OR TWO-WAY ACCESSORY CLIP TO ANCHOR PIPE BRACE BASE
- ATTACH BRACE TOP TO THE WALKWAY BRACKET BOTTOM CLIP OR TO THE STANDARD PANEL INNER-RAIL OR SIDE-RAIL USING THE TWO-WAY CLIP / CLAMP ASSEMBLY
- SPLICE TWO BRACES TOGETHER WITH CENTER PIPE EXTENSION TO CREATE LONGER BRACES
- **9'-0" MAXIMUM HORIZONTAL BRACE SPACING; ACTUAL SPACING BASED ON EXTENSION AND WIND LOADING CONDITIONS**
- **MAXIMUM ANGLE FROM GROUND 60°**
- **PIPE BRACE ALLOWABLE LOADS: (SEE CHARTS NEXT ON SHEET)**



PRODUCT CODES
88105 - PIPE BRACE 3'-0" TO 5'-0"
88109 - PIPE BRACE 5'-0" TO 8'-10"
88119 - PIPE BRACE 10'-0" TO 19'-0"

ALLFORM COMPONENT HANDBOOK – PART 1 FORMING

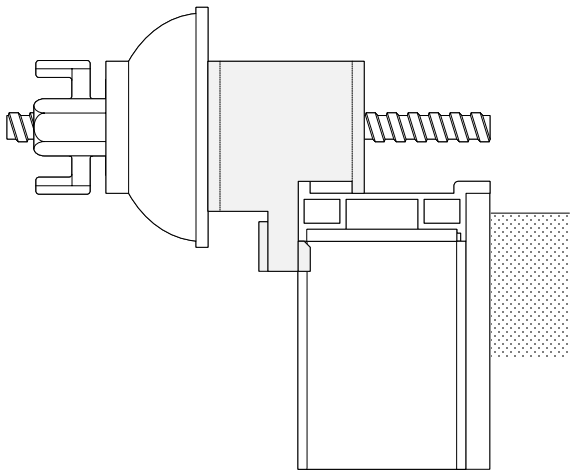


PIPE BRACE	EXTENSION RANGE (FEET)			ALLOWABLE LOAD (LBS)		
	MINIMUM	MAXIMUM	RANGE	MINIMUM	MAXIMUM	RANGE
#1 - STRUT BRACE 0305	3.0	4.8	1.9	12,500	10,750	1,750
#2 - PIPE BRACE 0509	5.2	8.9	3.6	11,500	4,250	7,250
#3 - PIPE BRACE 1019	10.9	19.4	8.5	2,550	1,125	1,425

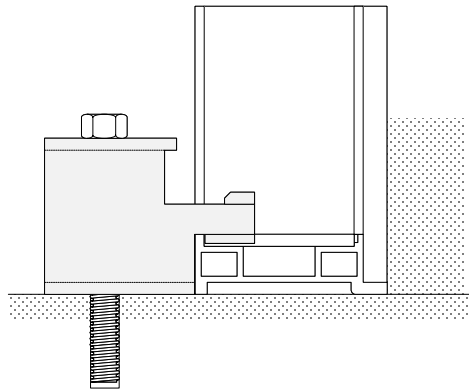
DIM "A" PIPE EXTENSION (FEET)	CHART COLOR LEGEND: BRACE TYPE TO USE / OUTSIDE RANGE LIMIT					
	USE 10-19 PIPE BRACE	OUTSIDE RANGE OR PAST MAX. ANGLE OF 10-19 PIPE BRACE	USE 05-09 PIPE BRACE	OUTSIDE RANGE OR PAST MAX. ANGLE OF 05-09 PIPE BRACE	USE 03-05 STRUT BRACE	OUTSIDE RANGE OR PAST MAX. ANGLE OF 03-05 STRUT BRACE
ANGLE FROM BASE (DEGREES)						
ALLOWABLE LOAD (LBS)						

DIMENSION "A" - HORIZONTAL DISTANCE (FEET) FROM CONNECTION TO FORMWORK TO ANCHOR

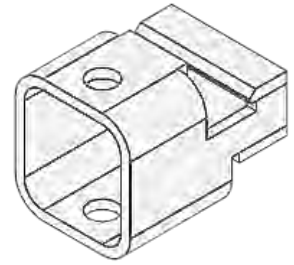
DIMENSION "B" - VERTICAL DISTANCE (FEET) FROM CONNECTION TO FORMWORK TO BASE ELEVATION	DIMENSION "A" - HORIZONTAL DISTANCE (FEET) FROM CONNECTION TO FORMWORK TO ANCHOR																														
	16.0	15.5	15.0	14.5	14.0	13.5	13.0	12.5	12.0	11.5	11.0	10.5	10.0	9.5	9.0	8.5	8.0	7.5	7.0	6.5	6.0	5.5	5.0	4.5	4.0	3.5	3.0	2.5	2.0		
16.0	22.6	22.3	21.9	21.6	21.3	20.9	20.6	20.3	20.0	19.7	19.4	19.1	18.9	18.6	18.4	18.1	17.9	17.7	17.5	17.3	17.1	16.9	16.8	16.6	16.4	16.3	16.2	16.1	16.1		
15.5	22.1	21.9	21.6	21.2	20.9	20.6	20.2	19.9	19.6	19.3	19.0	18.7	18.4	18.2	17.9	17.7	17.4	17.2	17.0	16.8	16.6	16.4	16.3	16.1	16.1	16.0	15.9	15.8	15.7	15.6	
15.0	21.9	21.6	21.2	20.9	20.5	20.2	19.8	19.5	19.2	18.9	18.6	18.3	18.0	17.8	17.5	17.2	17.0	16.8	16.6	16.4	16.2	16.0	15.8	15.7	15.5	15.4	15.3	15.2	15.1	15.1	
14.5	21.6	21.2	20.9	20.5	20.2	19.8	19.5	19.1	18.8	18.5	18.2	17.9	17.6	17.3	17.1	16.8	16.6	16.3	16.1	15.9	15.7	15.5	15.3	15.2	15.0	14.9	14.8	14.7	14.6	14.6	
14.0	21.3	20.9	20.5	20.2	19.8	19.4	19.1	18.7	18.4	18.1	17.8	17.5	17.2	16.9	16.6	16.4	16.1	15.9	15.7	15.4	15.2	15.0	14.9	14.7	14.6	14.4	14.3	14.2	14.1	14.1	
13.5	20.9	20.6	20.2	19.8	19.4	19.1	18.7	18.4	18.1	17.7	17.4	17.1	16.8	16.5	16.2	16.0	15.7	15.4	15.2	15.0	14.8	14.6	14.4	14.2	14.1	13.9	13.8	13.7	13.6	13.6	
13.0	20.6	20.2	19.8	19.5	19.1	18.7	18.4	18.0	17.7	17.4	17.0	16.7	16.4	16.1	15.8	15.5	15.3	15.0	14.8	14.5	14.3	14.1	13.9	13.8	13.6	13.5	13.3	13.2	13.2	13.2	
12.5	20.3	19.9	19.5	19.1	18.8	18.4	18.0	17.7	17.3	17.0	16.7	16.3	16.0	15.7	15.4	15.1	14.8	14.6	14.3	14.1	13.9	13.7	13.5	13.3	13.1	13.0	12.9	12.7	12.7	12.7	
12.0	20.0	19.6	19.2	18.8	18.4	18.1	17.7	17.3	17.0	16.6	16.3	15.9	15.6	15.3	15.0	14.7	14.4	14.2	13.9	13.6	13.3	13.0	12.8	12.5	12.3	12.1	12.0	11.9	11.8	11.7	11.7
11.5	19.7	19.3	18.9	18.5	18.1	17.7	17.4	17.0	16.6	16.3	15.9	15.6	15.2	14.9	14.6	14.3	14.0	13.7	13.5	13.2	13.0	12.7	12.5	12.3	12.1	11.9	11.7	11.5	11.4	11.3	11.2
11.0	19.4	19.0	18.6	18.2	17.8	17.4	17.0	16.7	16.3	15.9	15.6	15.2	14.9	14.5	14.2	13.9	13.6	13.3	13.0	12.8	12.5	12.3	12.1	11.9	11.7	11.4	11.2	11.0	10.8	10.7	10.7
10.5	19.1	18.7	18.3	17.9	17.5	17.1	16.7	16.3	15.9	15.6	15.2	14.8	14.5	14.2	13.8	13.5	13.2	12.9	12.6	12.3	12.1	11.9	11.6	11.4	11.2	11.1	10.9	10.8	10.7	10.7	
10.0	18.9	18.4	18.0	17.6	17.2	16.8	16.4	16.0	15.6	15.2	14.9	14.5	14.1	13.8	13.5	13.1	12.8	12.5	12.2	11.9	11.7	11.4	11.2	11.0	10.8	10.6	10.4	10.3	10.2	10.2	
9.5	18.6	18.2	17.8	17.3	16.9	16.5	16.1	15.7	15.3	14.9	14.5	14.2	13.8	13.4	13.1	12.7	12.4	12.1	11.8	11.5	11.2	11.0	10.7	10.5	10.3	10.1	10.0	9.8	9.7	9.7	
9.0	18.4	17.9	17.5	17.1	16.6	16.2	15.8	15.4	15.0	14.6	14.2	13.8	13.5	13.1	12.7	12.4	12.0	11.7	11.4	11.1	10.8	10.5	10.2	10.0	9.7	9.4	9.2	9.1	9.0	9.0	
8.5	18.1	17.7	17.2	16.8	16.4	16.0	15.5	15.1	14.7	14.3	13.9	13.5	13.1	12.7	12.4	12.0	11.7	11.3	11.0	10.7	10.4	10.1	9.9	9.6	9.4	9.2	9.0	8.9	8.7	8.7	
8.0	17.8	17.4	17.0	16.5	16.1	15.7	15.3	14.9	14.5	14.1	13.7	13.3	12.9	12.5	12.1	11.7	11.3	11.0	10.6	10.3	9.9	9.6	9.3	9.0	8.7	8.5	8.3	8.1	7.9	7.8	
7.5	17.5	17.1	16.7	16.3	15.9	15.5	15.1	14.7	14.3	13.9	13.5	13.1	12.7	12.3	11.9	11.5	11.1	10.7	10.4	10.0	9.7	9.4	9.1	8.8	8.5	8.3	8.1	7.9	7.7	7.7	
7.0	17.2	16.8	16.4	16.0	15.6	15.2	14.8	14.4	14.0	13.6	13.2	12.8	12.4	12.0	11.6	11.2	10.8	10.4	10.0	9.6	9.2	8.8	8.5	8.2	7.9	7.7	7.5	7.3	7.2	7.2	
6.5	16.9	16.5	16.1	15.7	15.3	14.9	14.5	14.1	13.7	13.3	12.9	12.5	12.1	11.7	11.3	10.9	10.5	10.1	9.7	9.3	8.9	8.5	8.1	7.8	7.5	7.2	7.0	6.8	6.7	6.7	
6.0	16.6	16.2	15.8	15.4	15.0	14.6	14.2	13.8	13.4	13.0	12.6	12.2	11.8	11.4	11.0	10.6	10.2	9.8	9.4	9.0	8.6	8.2	7.8	7.4	7.1	6.7	6.4	6.1	5.8	5.7	
5.5	16.3	15.9	15.5	15.1	14.7	14.3	13.9	13.5	13.1	12.7	12.3	11.9	11.5	11.1	10.7	10.3	9.9	9.5	9.1	8.7	8.3	7.9	7.5	7.1	6.7	6.4	6.0	5.7	5.4	5.3	
5.0	16.0	15.6	15.2	14.8	14.4	14.0	13.6	13.2	12.8	12.4	12.0	11.6	11.2	10.8	10.4	10.0	9.6	9.2	8.8	8.4	8.0	7.6	7.2	6.8	6.4	6.0	5.7	5.4	5.1	4.9	
4.5	15.7	15.3	14.9	14.5	14.1	13.7	13.3	12.9	12.5	12.1	11.7	11.3	10.9	10.5	10.1	9.7	9.3	8.9	8.5	8.1	7.7	7.3	6.9	6.5	6.1	5.7	5.4	5.1	4.8	4.6	
4.0	15.4	15.0	14.6	14.2	13.8	13.4	13.0	12.6	12.2	11.8	11.4	11.0	10.6	10.2	9.8	9.4	9.0	8.6	8.2	7.8	7.4	7.0	6.6	6.2	5.8	5.4	5.1	4.8	4.5	4.3	
3.5	15.1	14.7	14.3	13.9	13.5	13.1	12.7	12.3	11.9	11.5	11.1	10.7	10.3	9.9	9.5	9.1	8.7	8.3	7.9	7.5	7.1	6.7	6.3	5.9	5.5	5.1	4.8	4.5	4.2	4.0	
3.0	14.8	14.4	14.0	13.6	13.2	12.8	12.4	12.0	11.6	11.2	10.8	10.4	10.0	9.6	9.2	8.8	8.4	8.0	7.6	7.2	6.8	6.4	6.0	5.6	5.2	4.8	4.4	4.1	3.8	3.6	
2.5	14.5	14.1	13.7	13.3	12.9	12.5	12.1	11.7	11.3	10.9	10.5	10.1	9.7	9.3	8.9	8.5	8.1	7.7	7.3	6.9	6.5	6.1	5.7	5.3	4.9	4.5	4.1	3.8	3.5	3.3	
2.0	14.2	13.8	13.4	13.0	12.6	12.2	11.8	11.4	11.0	10.6	10.2	9.8	9.4	9.0	8.6	8.2	7.8	7.4	7.0	6.6	6.2	5.8	5.4	5.0	4.6	4.2	3.8	3.5	3.2	3.0	
1.5	13.9	13.5	13.1	12.7	12.3	11.9	11.5	11.1	10.7	10.3	9.9	9.5	9.1	8.7	8.3	7.9	7.5	7.1	6.7	6.3	5.9	5.5	5.1	4.7	4.3	3.9	3.5	3.2	2.9	2.7	
1.0	13.6	13.2	12.8	12.4	12.0	11.6	11.2	10.8	10.4	10.0	9.6	9.2	8.8	8.4	8.0	7.6	7.2	6.8	6.4	6.0	5.6	5.2	4.8	4.4	4.0	3.6	3.2	2.9	2.6	2.4	



DRY-TIE POSITION



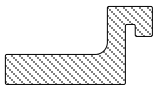
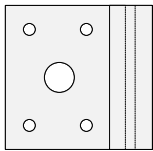
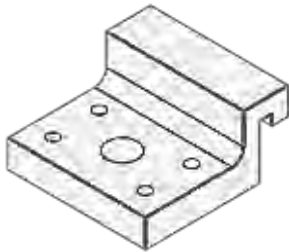
PANEL ANCHOR POSITION



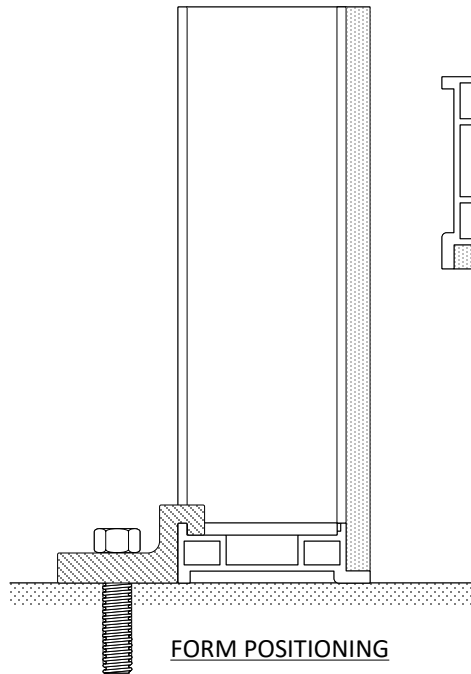
DRY TIE / HOLD-DOWN BRACKET

DRY TIE / HOLD DOWN BRACKET USE:

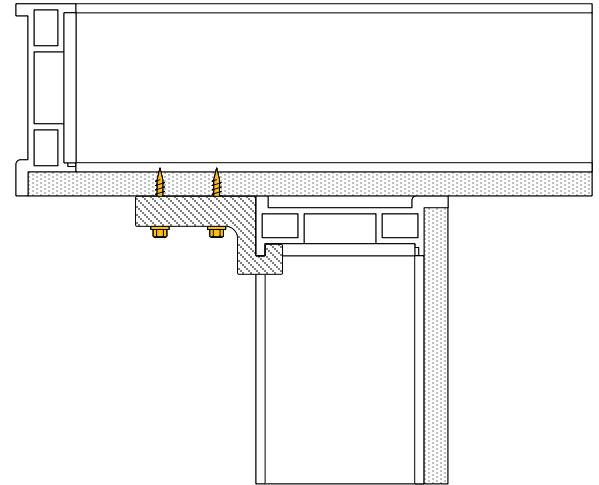
- USE TO POSITION BASE OF FORMWORK PANELS INTO DESIRED LOCATION
- ANCHOR FORMWORK BASE TO SUPPORT UPLIFT LOADS WITH 5/8" ANCHOR BOLT
- INSTALL ON THE TOP OF FORMWORK PANELS AS A DRY TIE ASSEMBLY USING A 15mm TIE ROD
- **SAFE WORKING LOAD 18,000 LBS; ACTUAL LOAD BASED ON ANCHOR SPECIFICATIONS; OR CAPACITY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



FORM POSITIONING



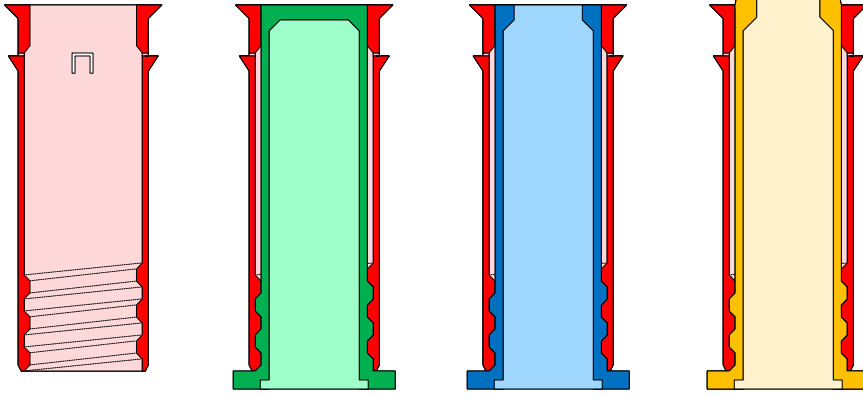
BULKHEAD OR OVERLAP

BULKHEAD / POSITIONING CLIP USE:

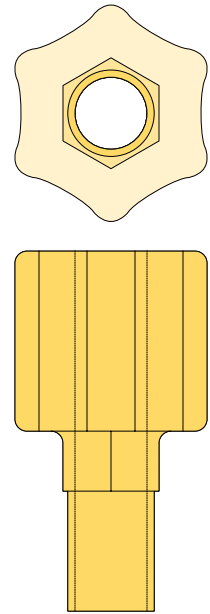
- USE TO POSITION THE BASE OF FORMWORK PANELS INTO DESIRED LOCATION
- ANCHOR FORMWORK BASE TO SUPPORT UPLIFT LOADS WITH 5/8" ANCHOR BOLT
- ATTACH TO PANEL FACING WITH UP TO (4) ¼" #10 SCREWS WHEN OVERLAPPING HORIZONTAL PANELS OR TO SECURE BULKHEAD
- **SAFE WORKING LOAD = 8,500; ACTUAL LOAD BASED ON ANCHOR 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

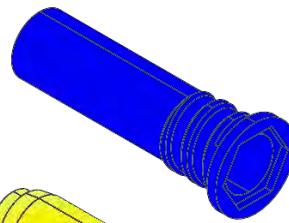
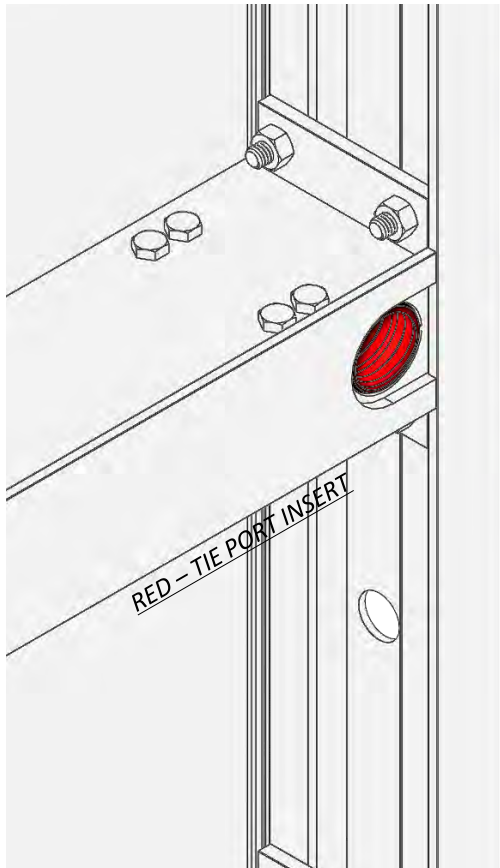
88010 - HOLD DOWN / DRY TIE BRACKET
88016 - BULKHEAD / POSITIONING CLIP



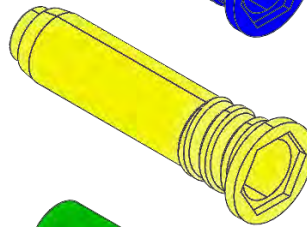
TIE-PORT INSERT ASSEMBLY OPTIONS



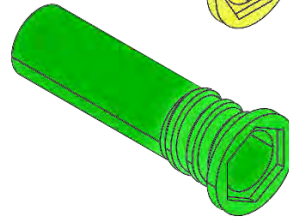
PLASTIC INSERT TOOL



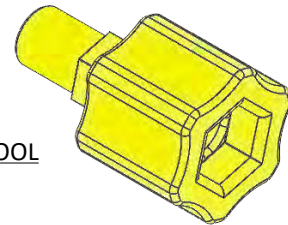
BLUE - TIE INSERT



YELLOW - TIE INSERT



GREEN - PLUG INSERT



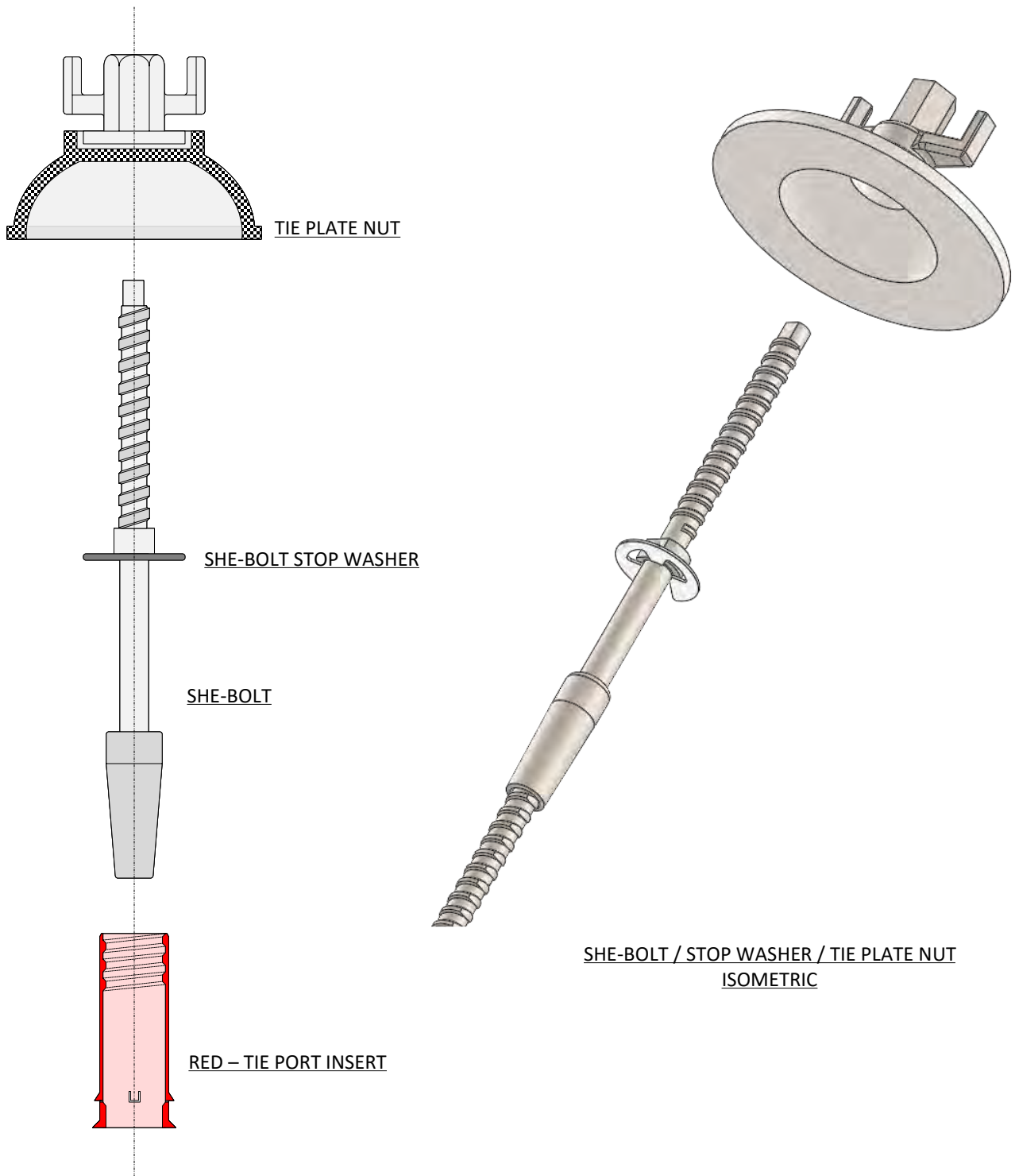
YELLOW – INSERT TOOL

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)

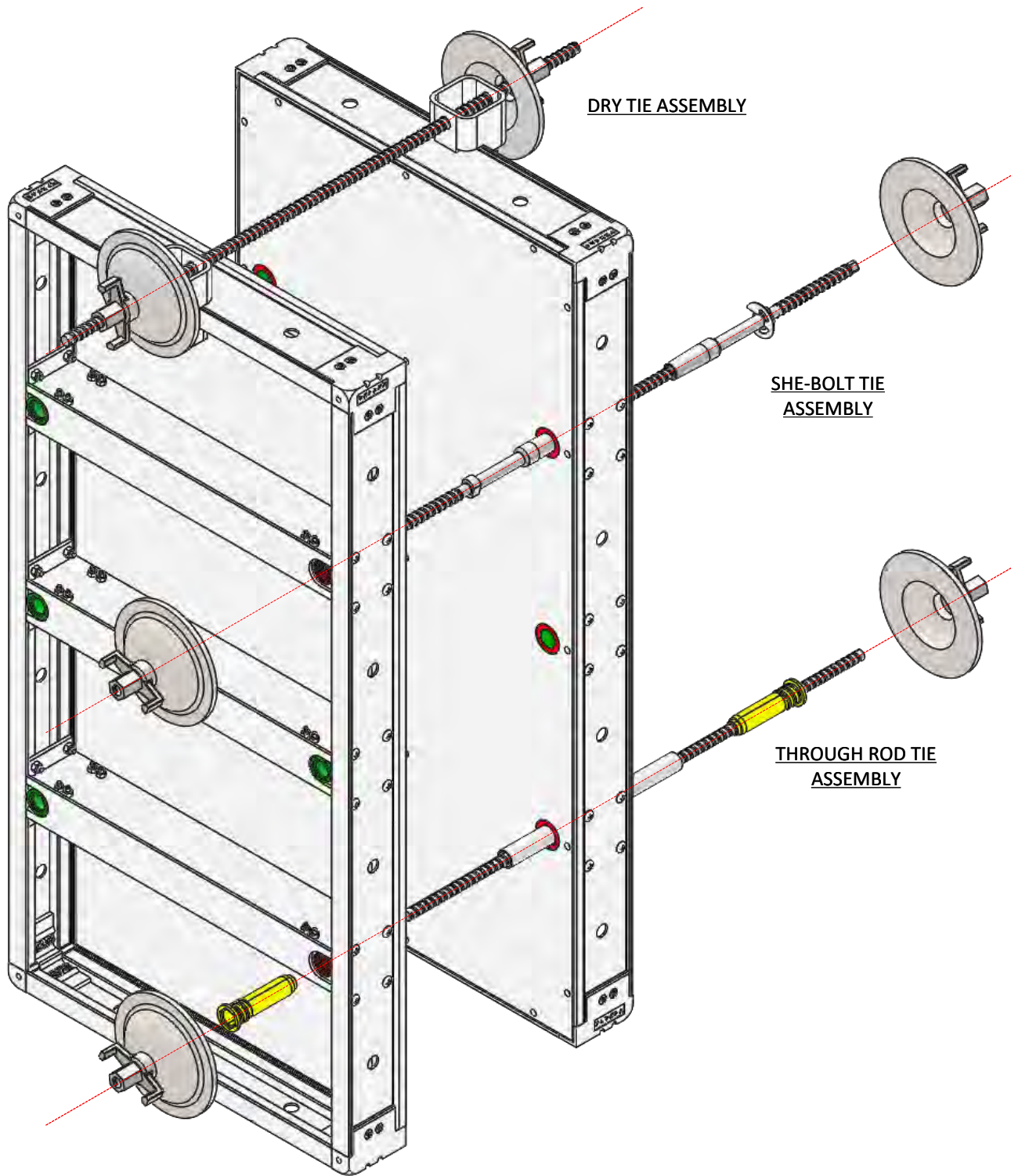


SHE-BOLT USE:

- USE WHEN THRU-HOLES ARE NOT PERMITTED IN FINISHED WALL
- 15mm SHE-BOLT FITS INSIDE PERMANENT 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

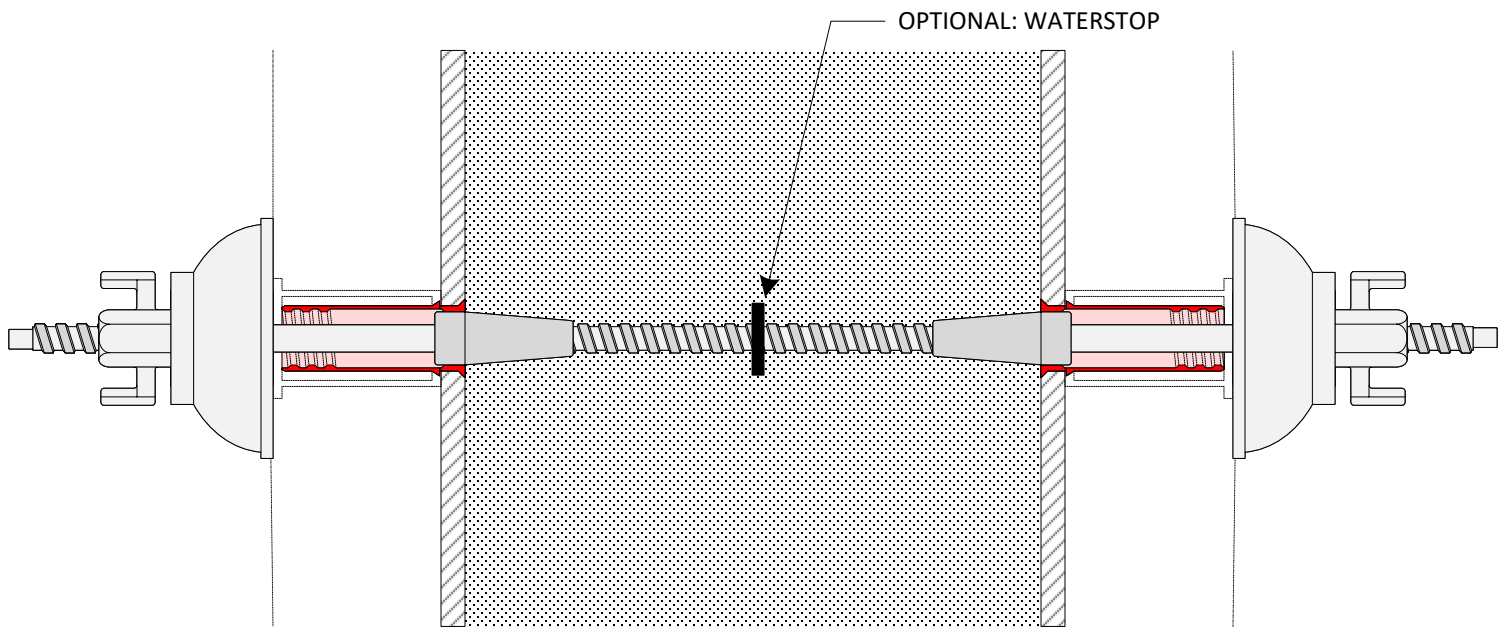
• **SAFE WORKING LOAD = 18,000 OR CAPACITY OF TIE ROD USED**

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



PRIMARY WALL TIE OPTIONS:

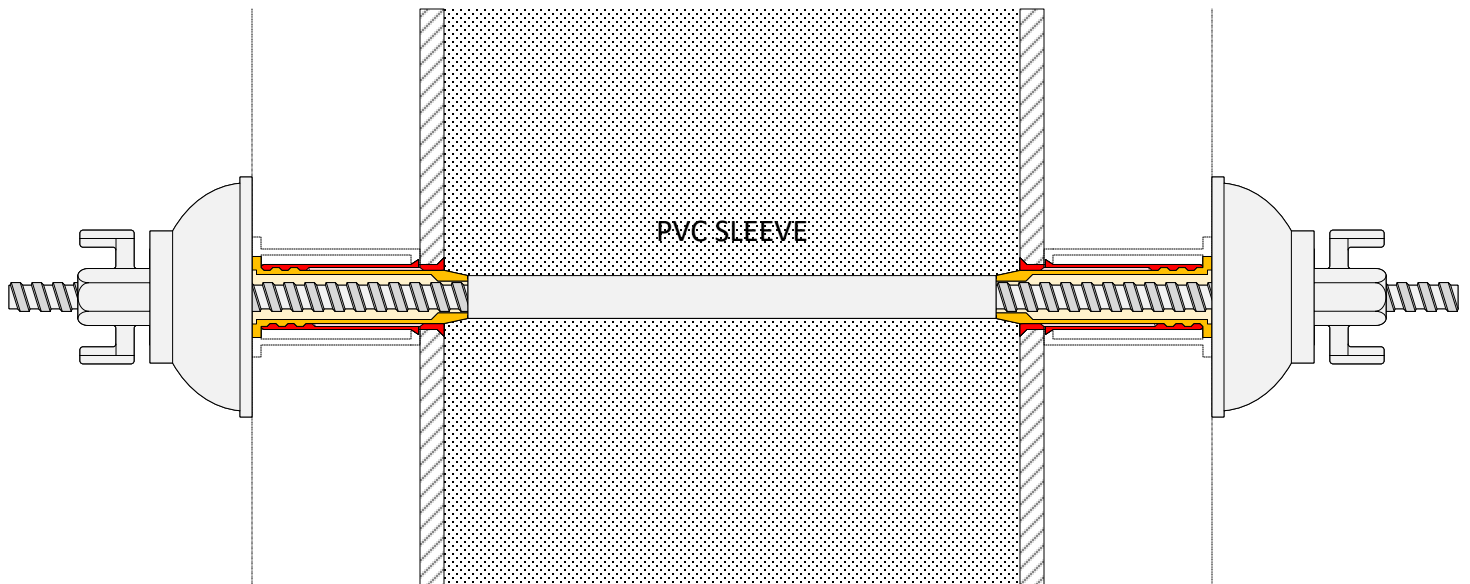
- (2) 15mm TIE PLATE NUTS / 15mm TIE ROD (REUSABLE) / PVC SLEEVE (CONSUMABLE) / REUSEABLE 15MM TIE ROD
- (2) 15mm TIE PLATE NUTS / (2) 15mm SHE-BOLTS / STOP WASHER / 15mm INNER TIE RODS (CONSUMABLE)
- (2) 15mm TIE PLATE NUTS / 15mm TIE ROD (REUSABLE) / (2) DRY TIE BRACKETS
- SAFE WORKING LOAD IS DETERMINED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



SHE-BOLT W/ INNER ROD

SHE-BOLT TIE:

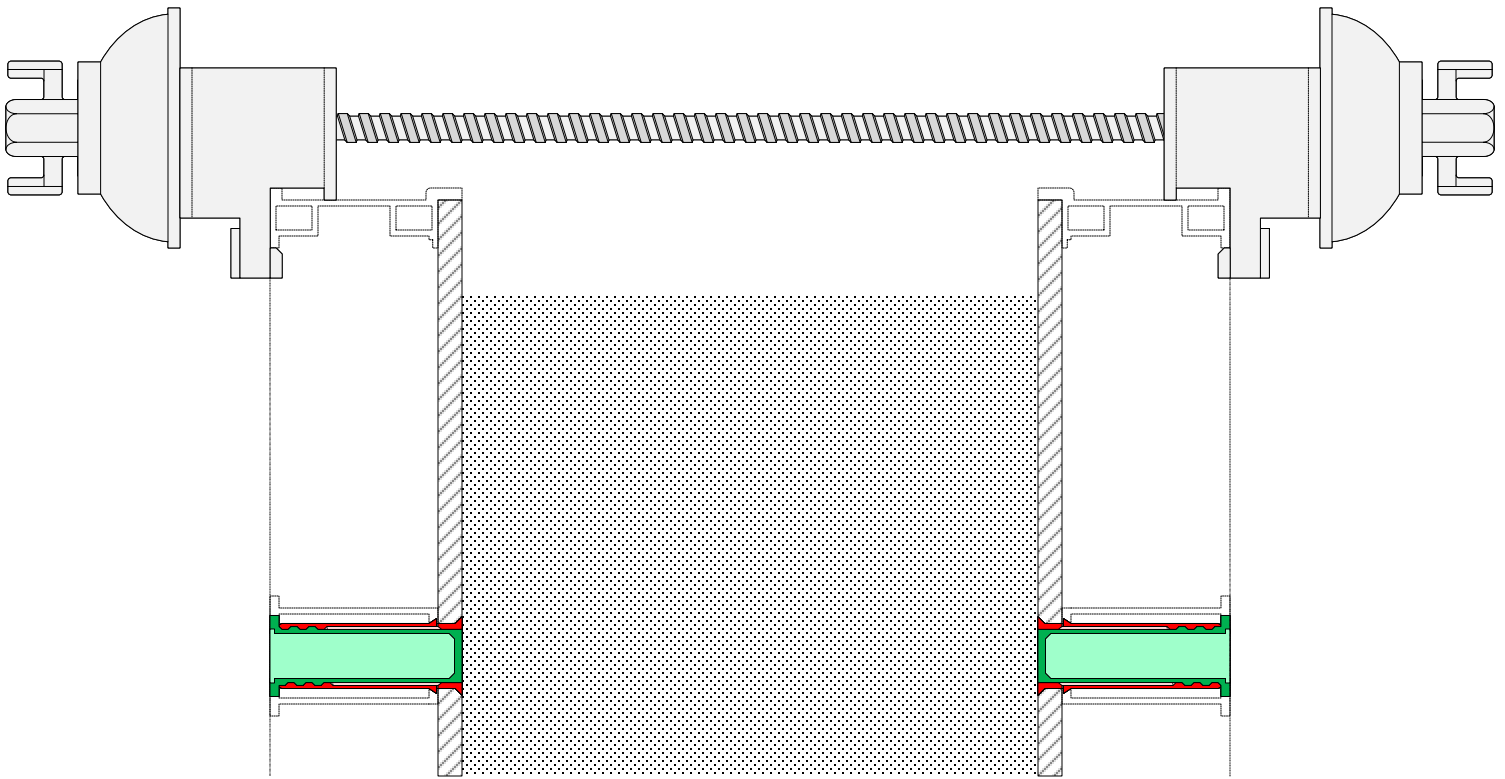
- USE ON WALL APPLICATIONS THAT REQUIRE THE INNER ROD TO REMAIN IN THE WALL OR IF A WATERSTOP SEAL IS REQUIRED
- 15mm INNER TIE ROD LENGTH = WALL THICKNESS LESS TWO INCHS
- INSTALLATION: 1) REMOVE GREEN TIE PLUG USING THE INSERT TOOL; 2) ASSEMBLE BOTH SHE-BOLTS TO INNER ROD AND ADD A STOP WASHER ON ONE 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:

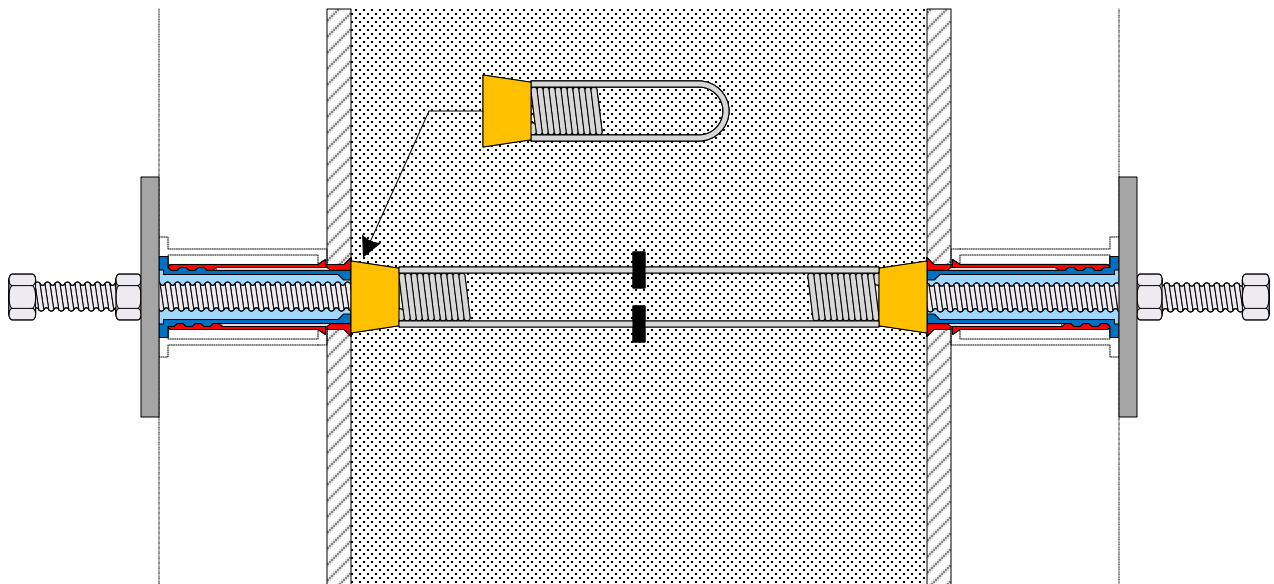
- USE ON WALL APPLICATIONS THAT ALLOW A THROUGH HOLE TO REMAIN IN THE FINISHED WALL
- MINIMUM 15mm TIE ROD LENGTH SHOULD BE NO LESS THAN THE WALL THICKNESS PLUS 20"
- CONSUMABLE PVC SLEEVE LENGTH = WALL THICKNESS LESS ONE-HALF INCH
- INSTALLATION: 1) REMOVE GREEN TIE PLUGS USING THE INSERT TOOL ; 2) 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 ASSEMBLY

DRY TIE:

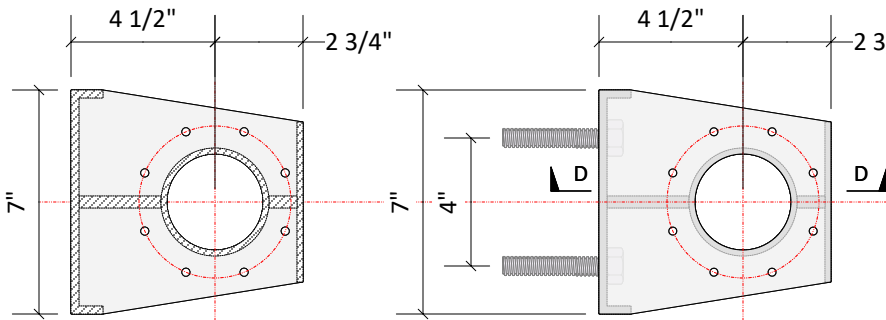
- USE FOR WALL TIE APPLICATIONS THAT CAN BE CONFIGURED TO USE A TIE ABOVE THE WALL FORM
- MINIMUM 15mm TIE ROD LENGTH SHOULD BE NO LESS THAN THE WALL THICKNESS PLUS 24"
- ADD A PVC SLEEVE BETWEEN DRY TIE BRACKETS TO PROVIDE FORMWORK SPACER
- INSTALLATION: 1) PLACE DRY TIE BRACKETS ON BOTH FORM PANELS 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

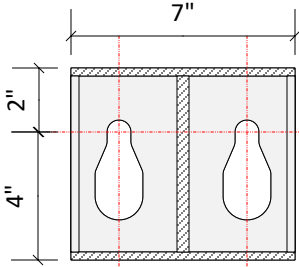
OTHER STANDARD TIE OR COIL ANCHOR:

- 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

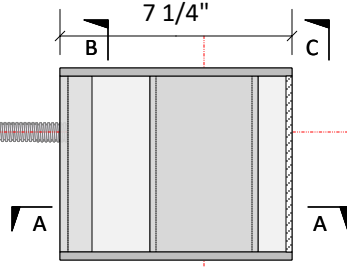


VIEW A-A

TOP VIEW

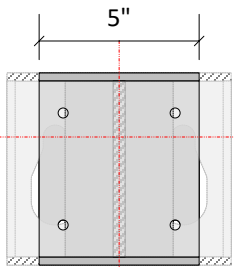


VIEW B-B

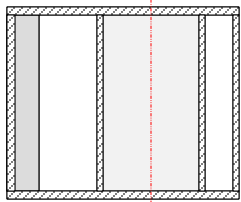


SIDE VIEW

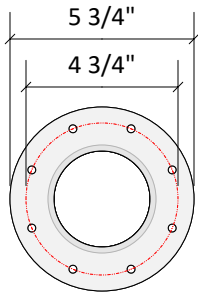
SHEARWALL BRACKET



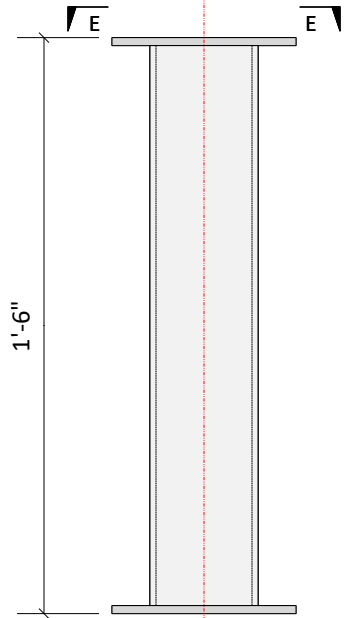
VIEW C-C



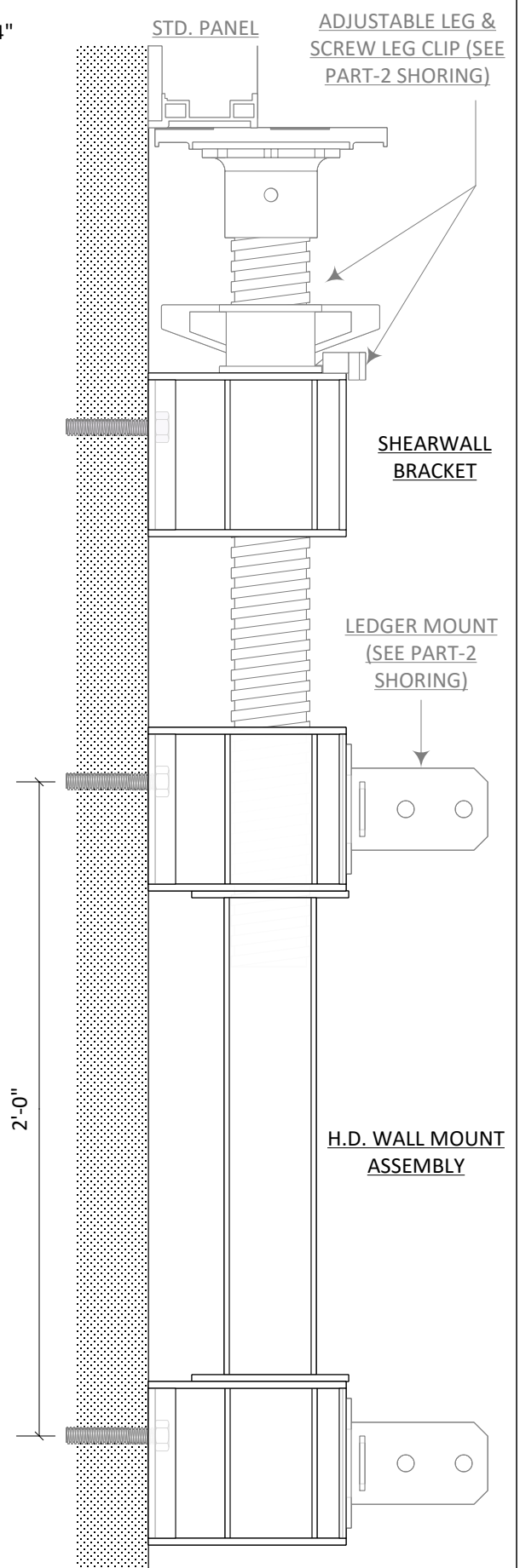
VIEW D-D



VIEW E-E



H.D. WALL MOUNT STRUT



STD. PANEL

ADJUSTABLE LEG &
SCREW LEG CLIP (SEE
PART-2 SHORING)

SHEARWALL
BRACKET

LEDGER MOUNT
(SEE PART-2
SHORING)

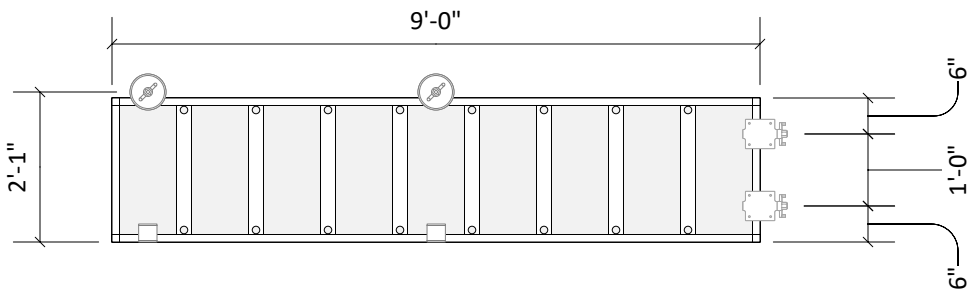
H.D. WALL MOUNT
ASSEMBLY

PRODUCT CODES

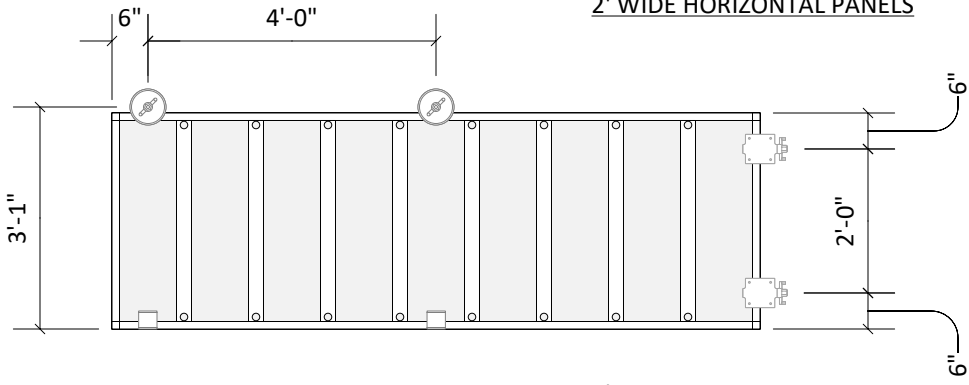
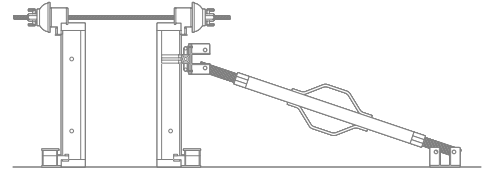
88028 - ADJUSTABLE SHEAR WALL BRACKET

88029 - ADJUSTABLE SHEAR WALL BRACKET - STRUT

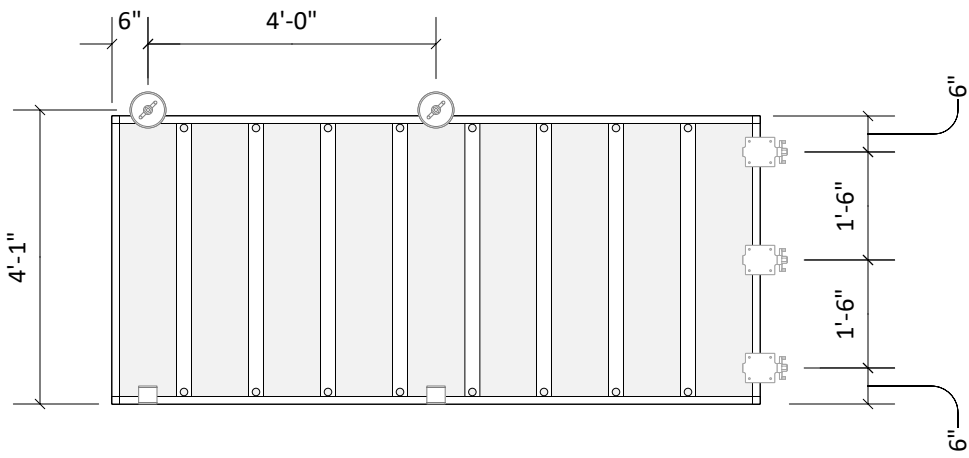
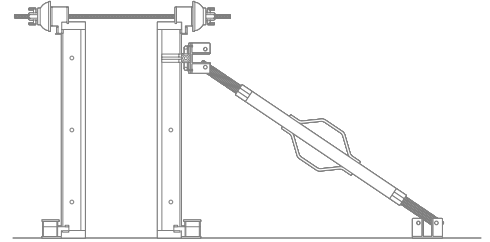
A88029 - ADJUSTABLE SHEAR WALL BRACKET - WALL MOUNT ASSEMBLY



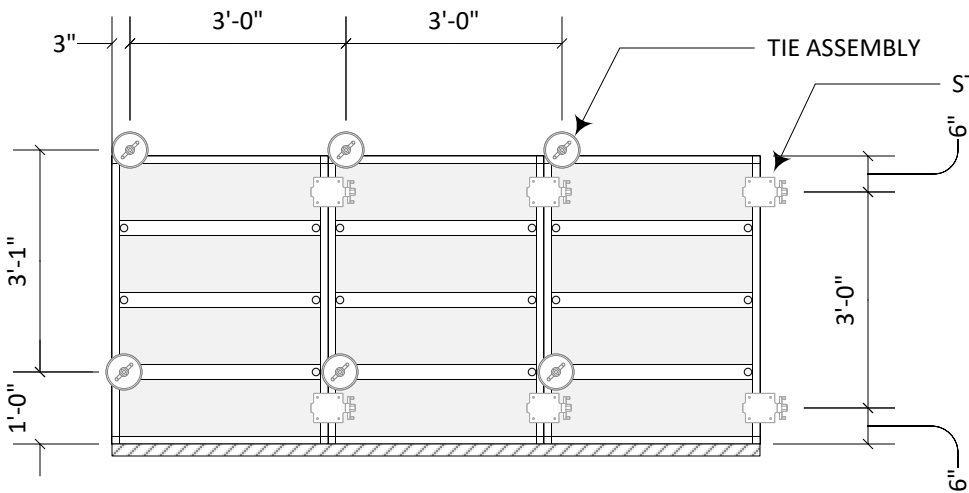
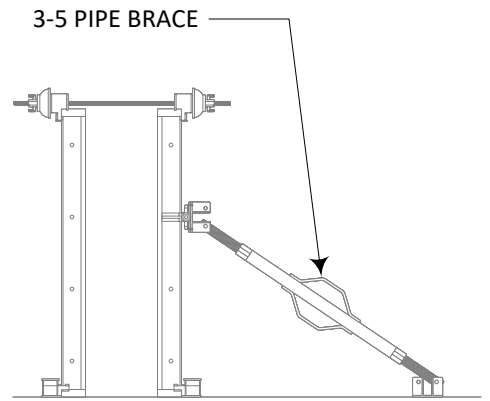
2' WIDE HORIZONTAL PANELS



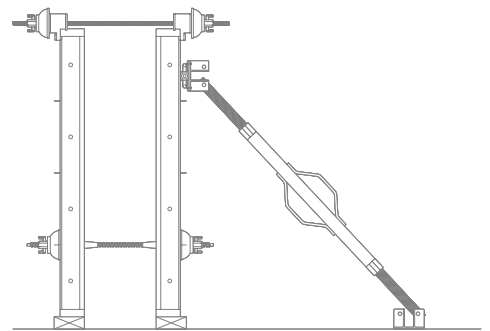
4' WIDE HORIZONTAL PANELS



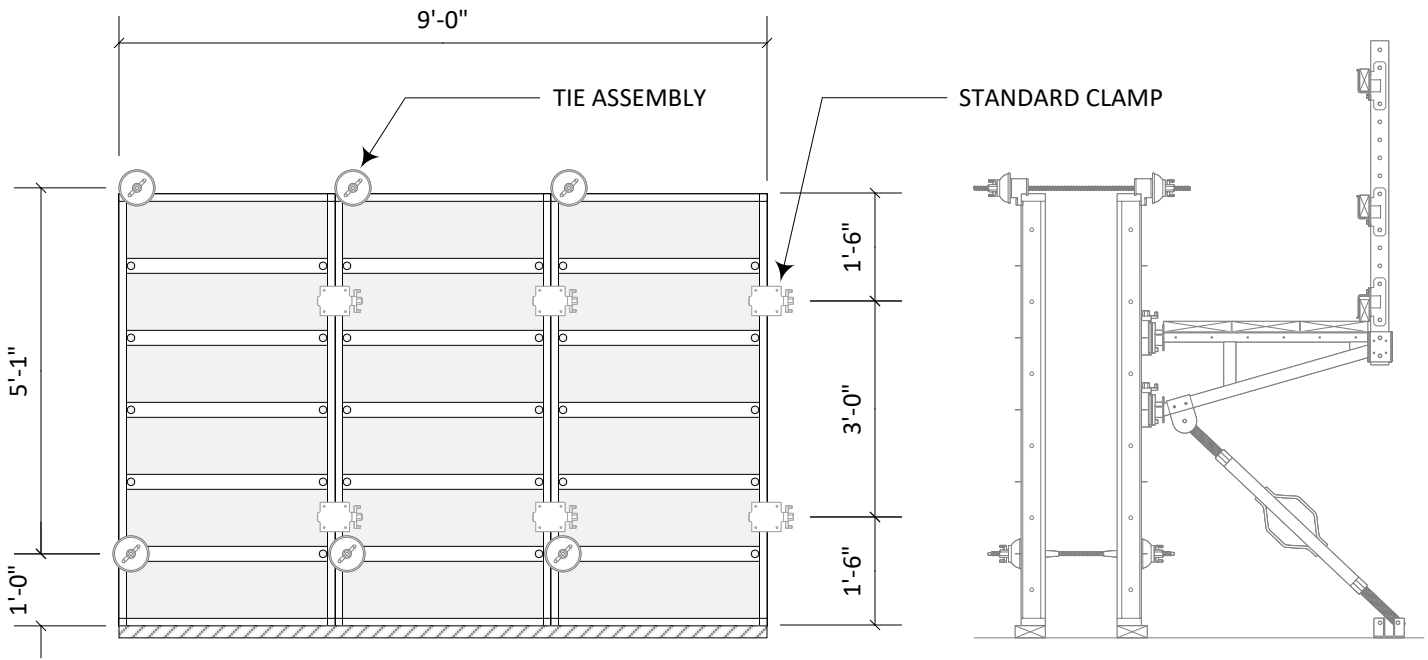
4' WIDE HORIZONTAL PANELS



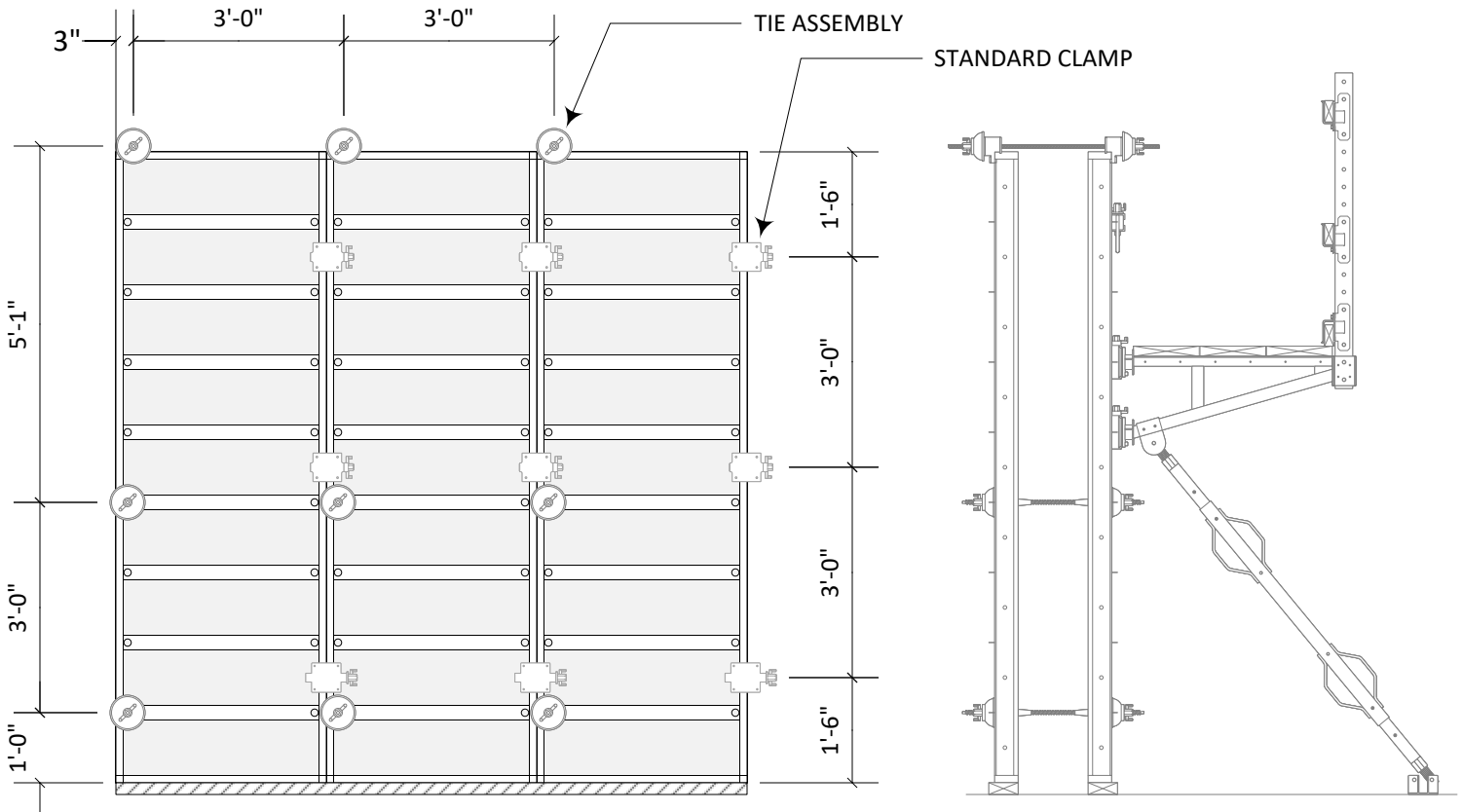
4' HIGH VERTICAL PANELS



OPTIMAL TIE SPACING SHOWN USING 3' WIDE PANELS – SPACING MAY CHANGE BASED ON POUR PRESSURES & PANEL CONFIGURATION

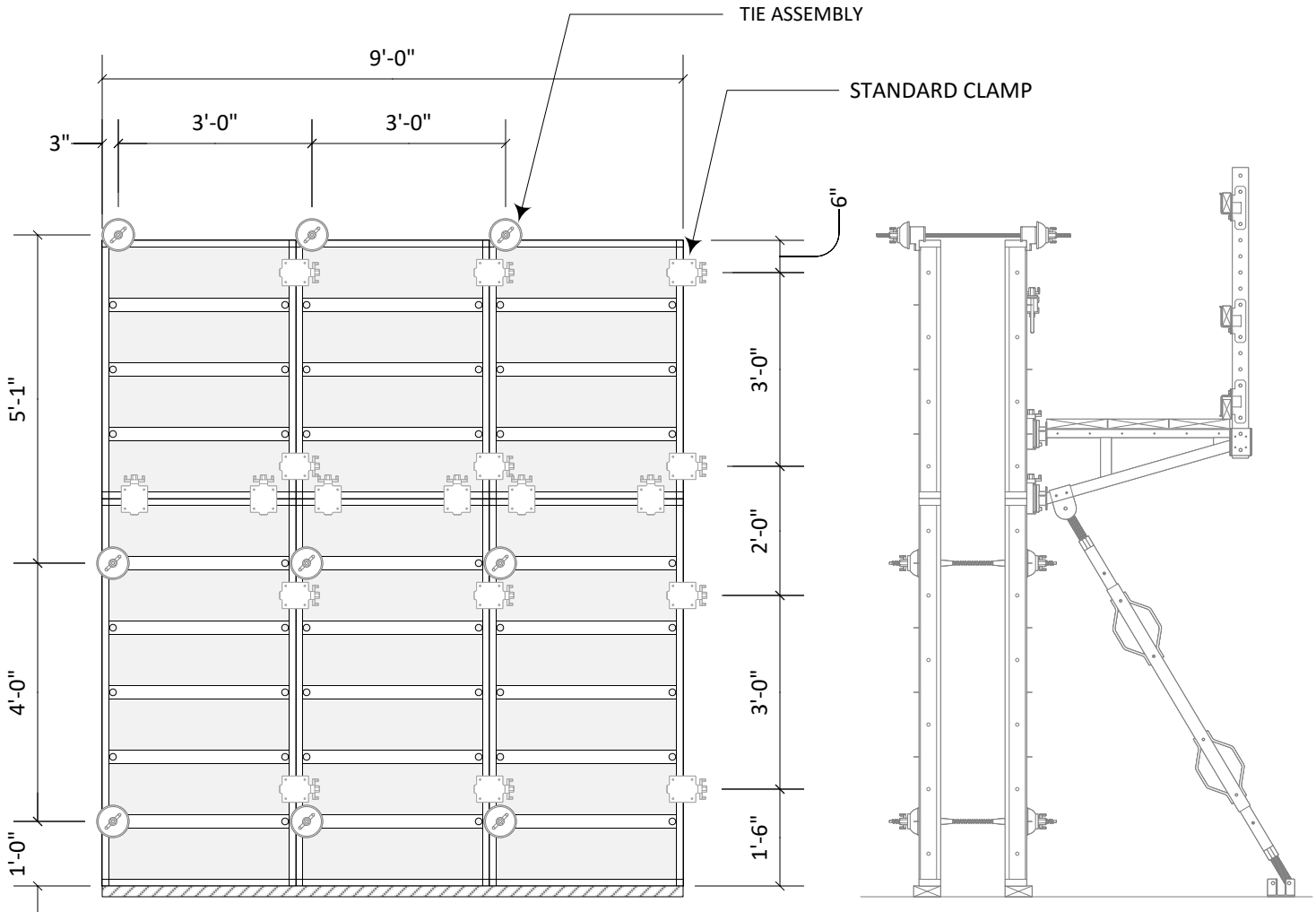


6' HIGH VERTICAL PANELS



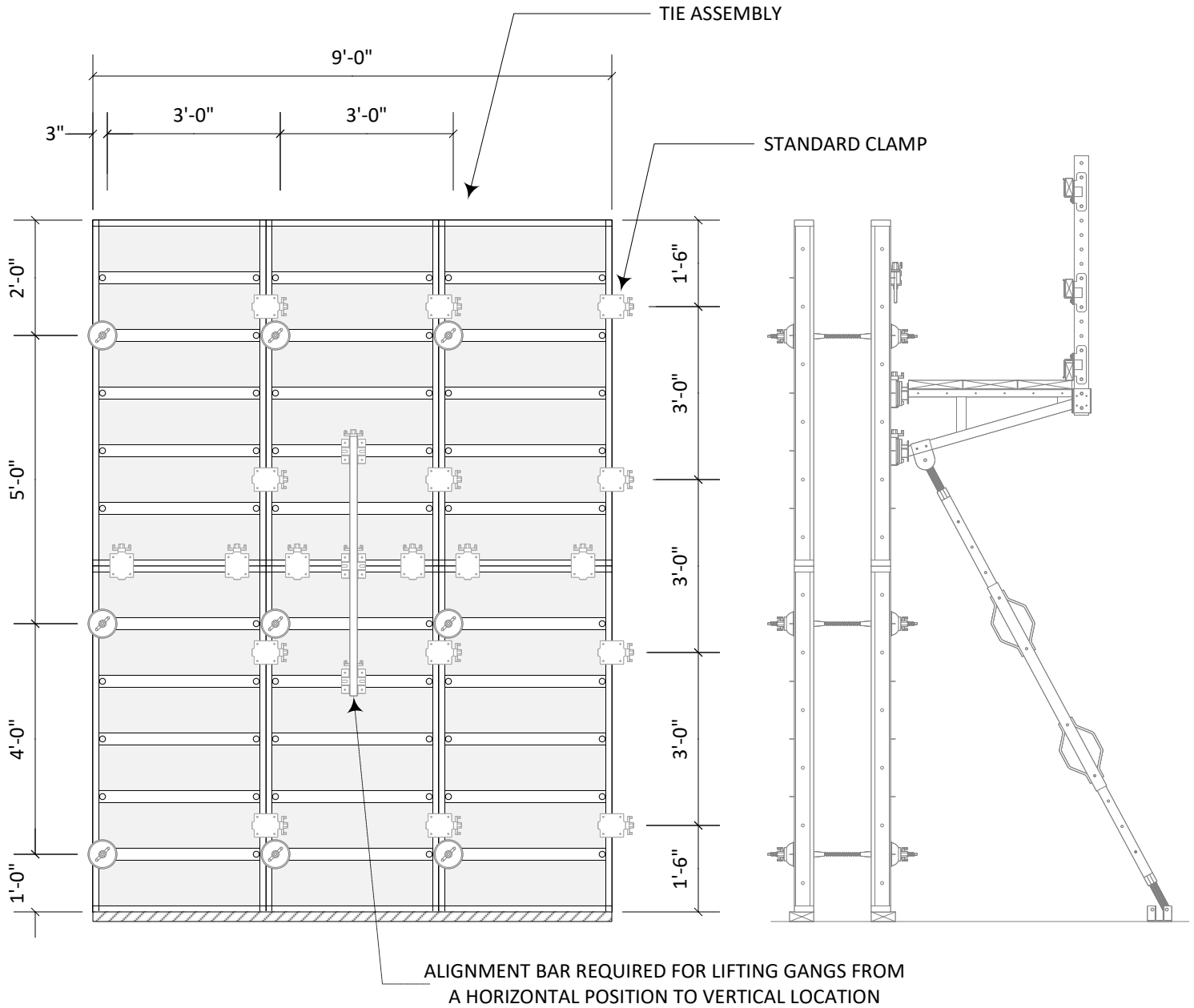
9' HIGH VERTICAL PANELS

OPTIMAL TIE SPACING SHOWN USING 3' WIDE PANELS – SPACING MAY CHANGE BASED ON POUR PRESSURES & PANEL CONFIGURATION



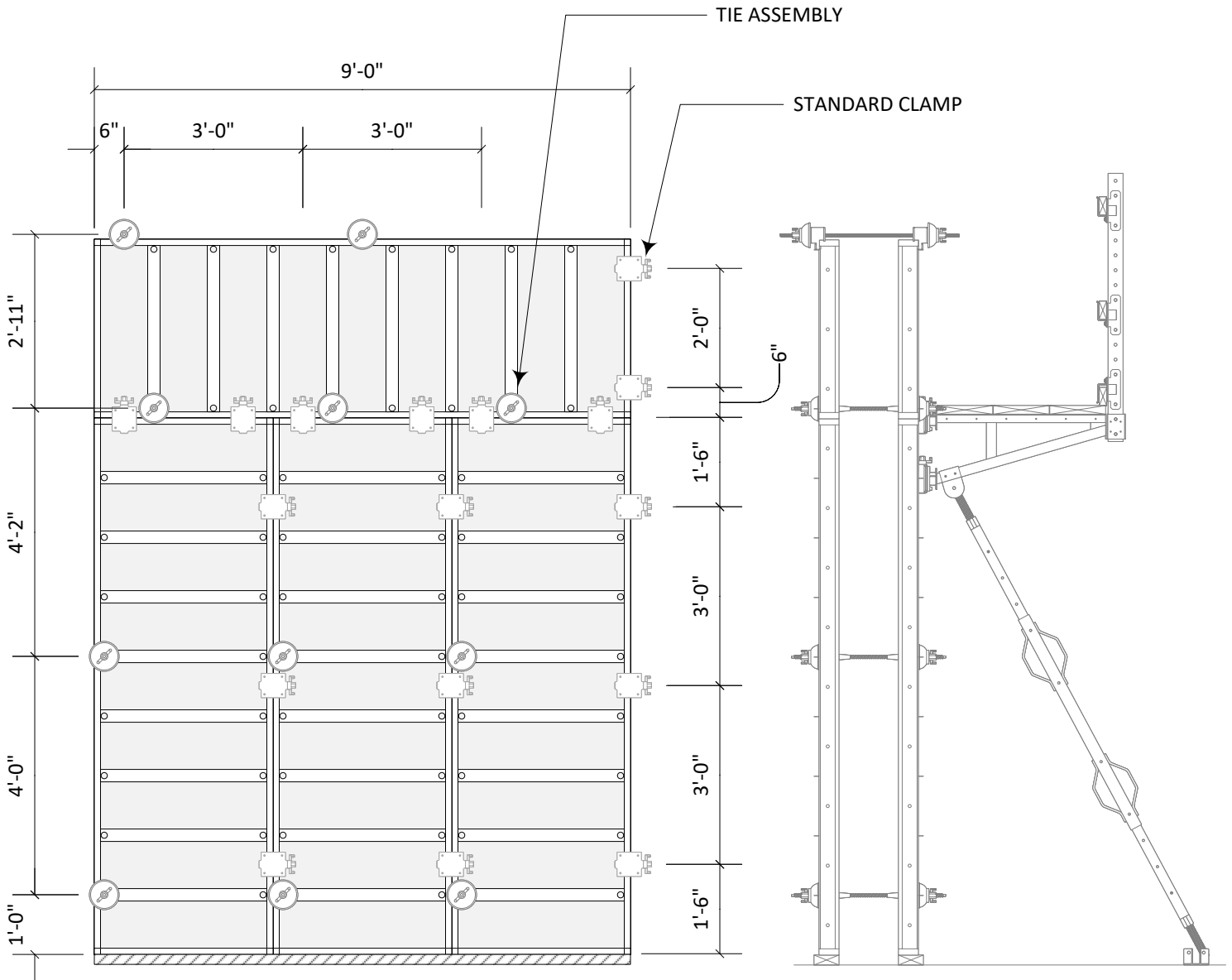
6' + 4' HIGH VERTICAL PANELS

OPTIMAL TIE SPACING SHOWN USING 3' WIDE PANELS – SPACING MAY CHANGE BASED ON POUR PRESSURES & PANEL CONFIGURATION



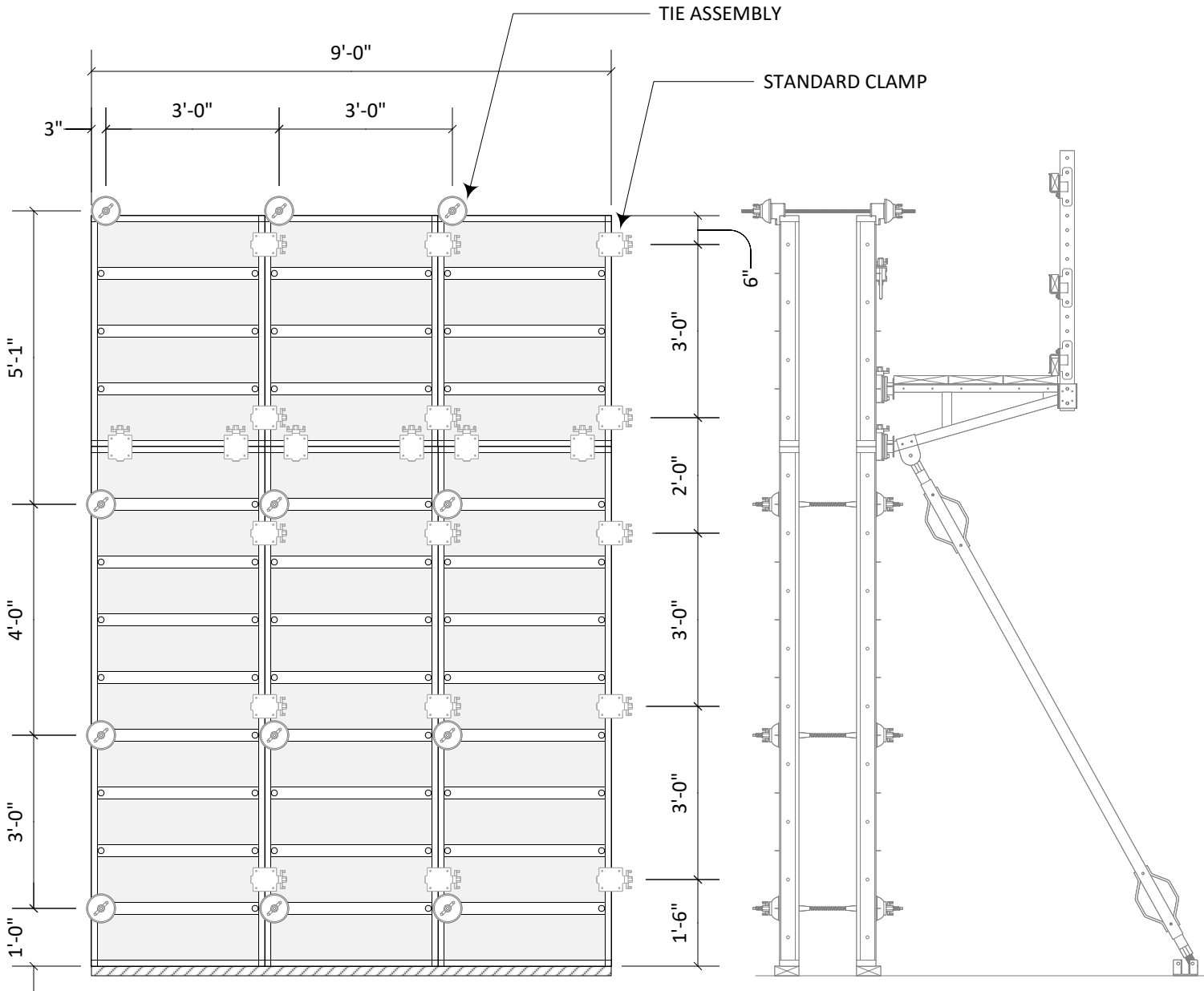
6' + 6' HIGH VERTICAL PANELS

OPTIMAL TIE SPACING SHOWN USING 3' WIDE PANELS – SPACING MAY CHANGE BASED ON POUR PRESSURES & PANEL CONFIGURATION



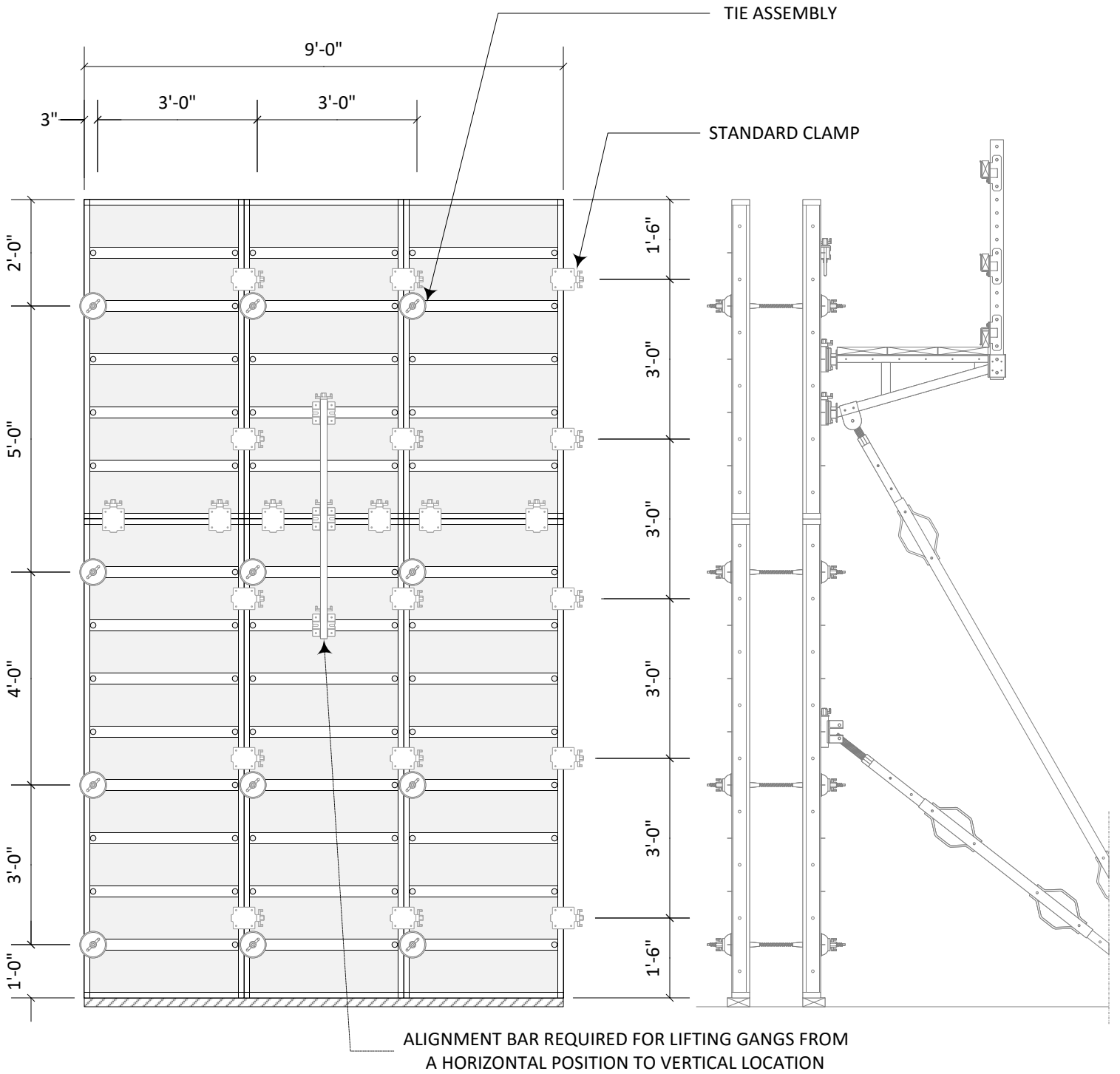
9' VERTICAL + 3' HIGH HORIZONTAL PANELS

OPTIMAL TIE SPACING SHOWN USING 3' WIDE PANELS – SPACING MAY CHANGE BASED ON POUR PRESSURES & PANEL CONFIGURATION



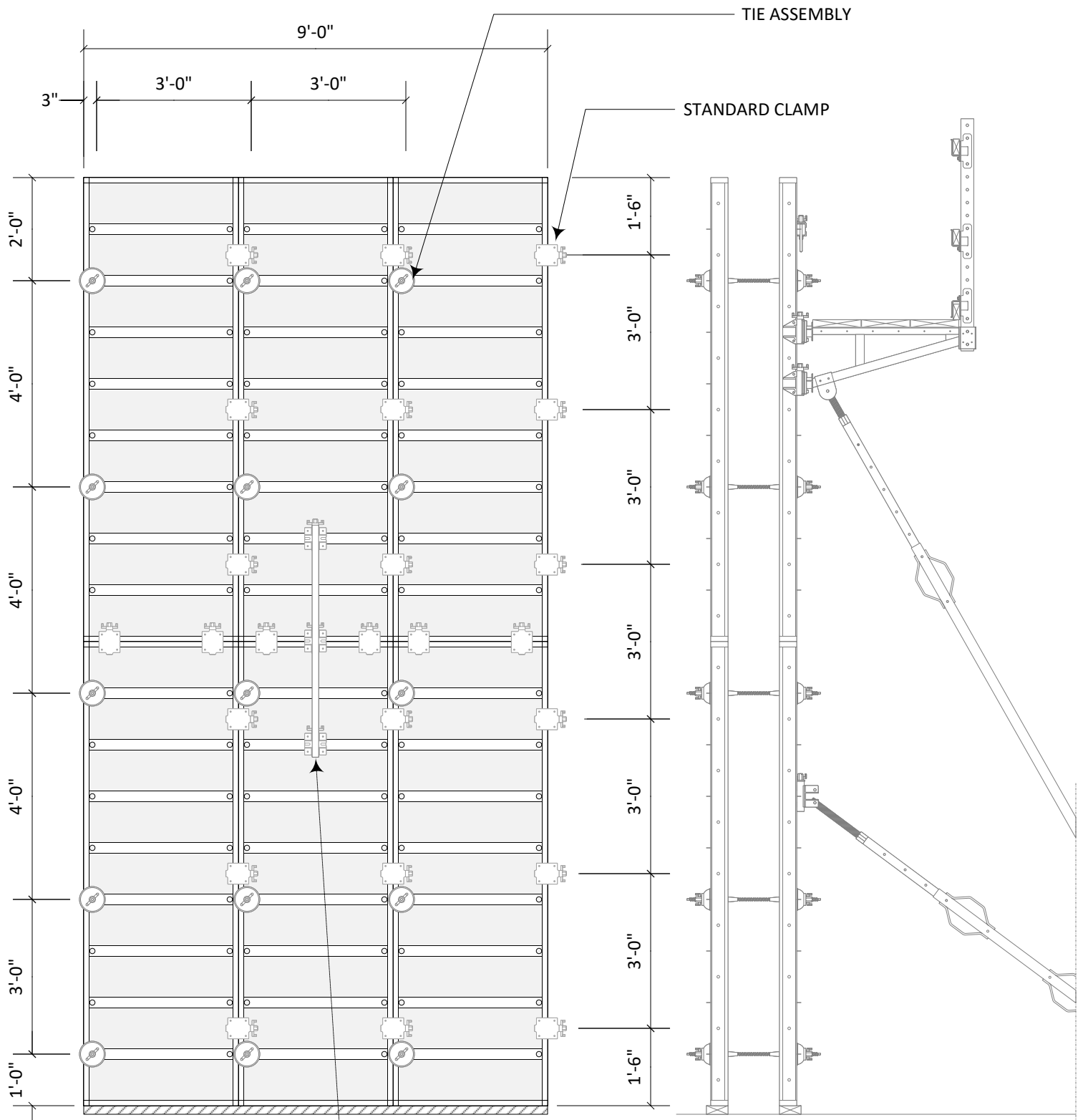
9' + 4' HIGH VERTICAL PANELS

OPTIMAL TIE SPACING SHOWN USING 3' WIDE PANELS – SPACING MAY CHANGE BASED ON POUR PRESSURES & PANEL CONFIGURATION



9' VERTICAL + 3' HIGH HORIZONTAL PANELS

OPTIMAL TIE SPACING SHOWN USING 3' WIDE PANELS – SPACING MAY CHANGE BASED ON POUR PRESSURES & PANEL CONFIGURATION

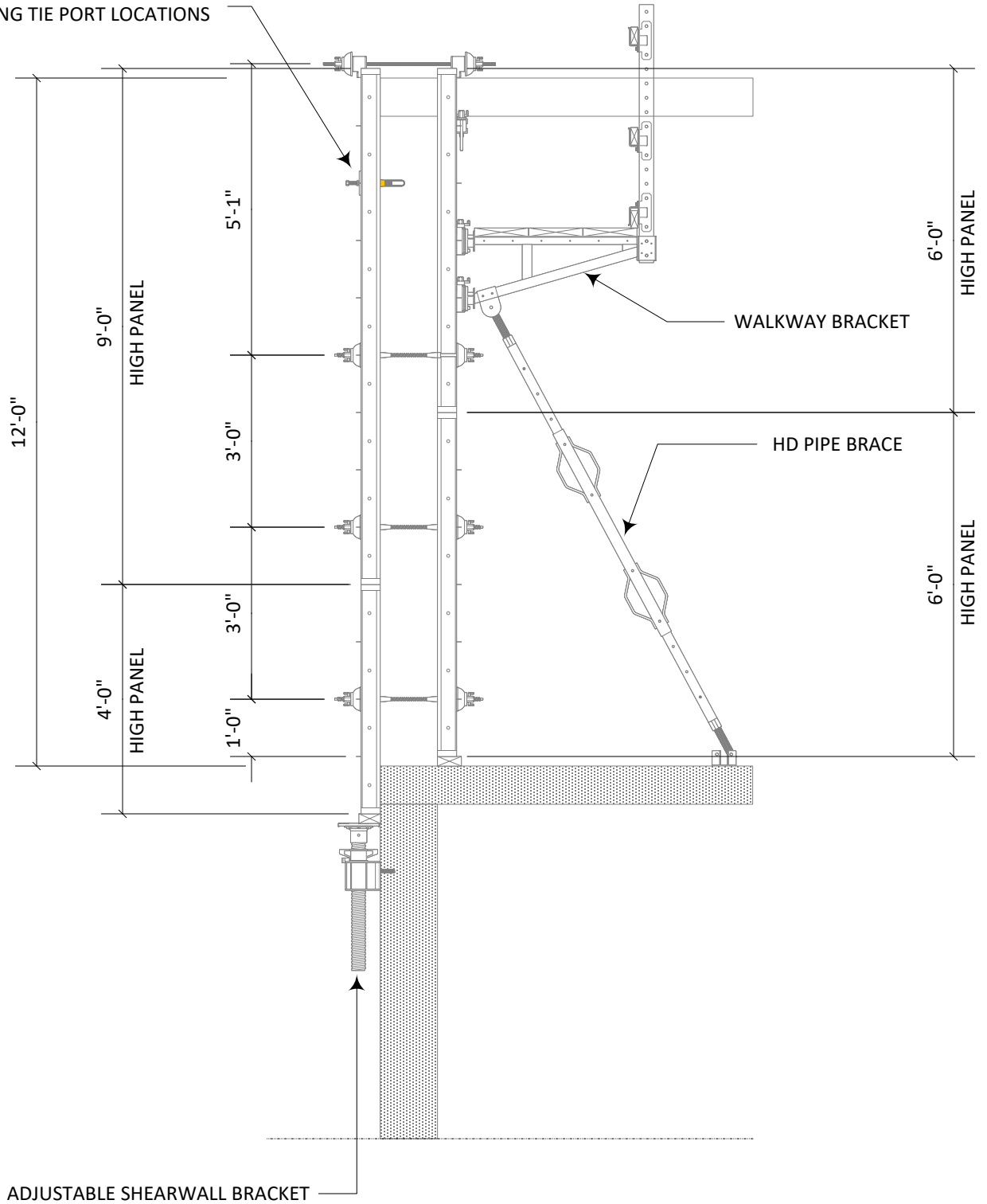


ALIGNMENT BAR REQUIRED FOR LIFTING GANGS FROM A HORIZONTAL POSITION TO VERTICAL LOCATION

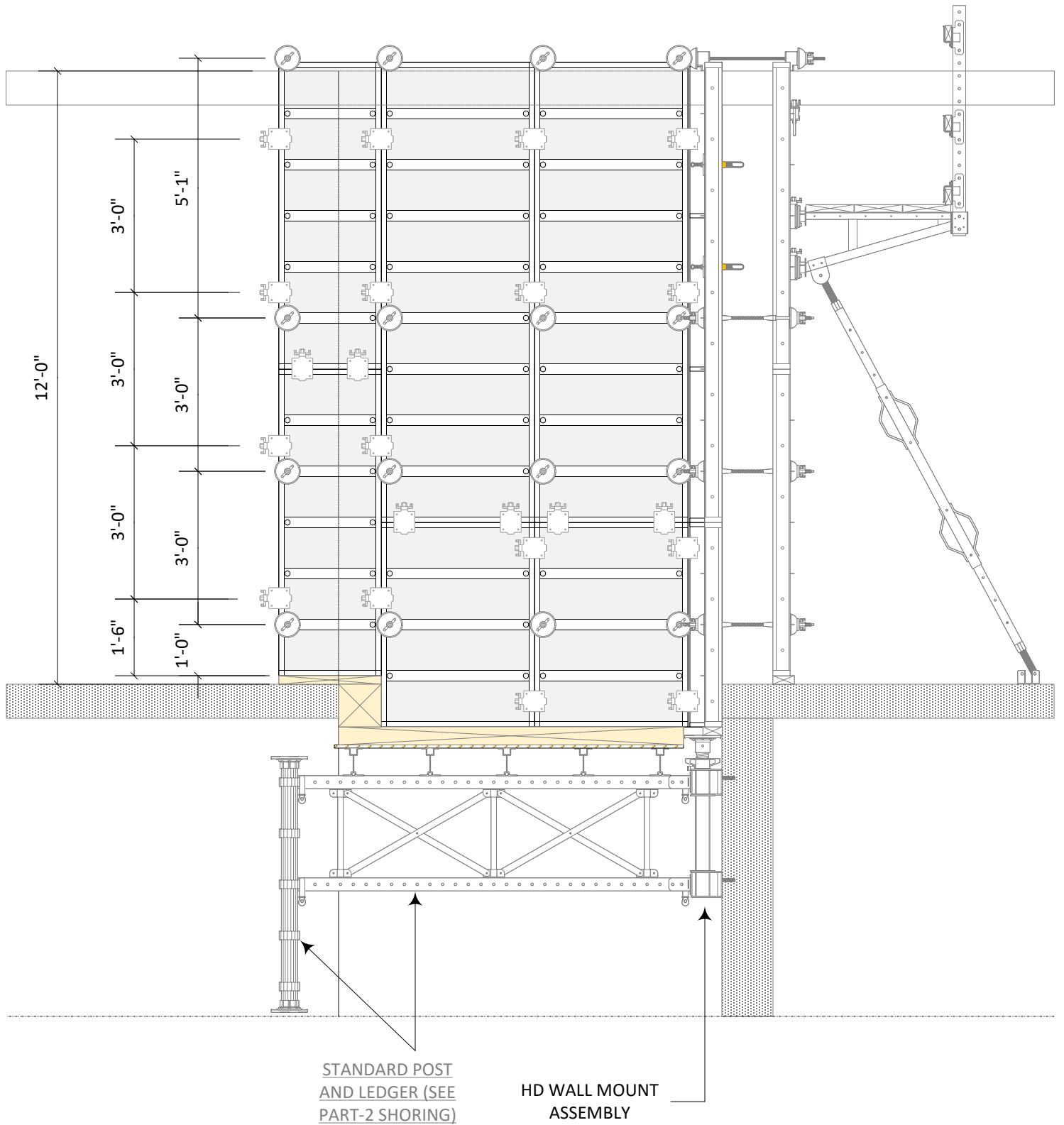
9' VERTICAL + 9' HIGH HORIZONTAL PANELS

OPTIMAL TIE SPACING SHOWN USING 3' WIDE PANELS – SPACING MAY CHANGE BASED ON POUR PRESSURES & PANEL CONFIGURATION

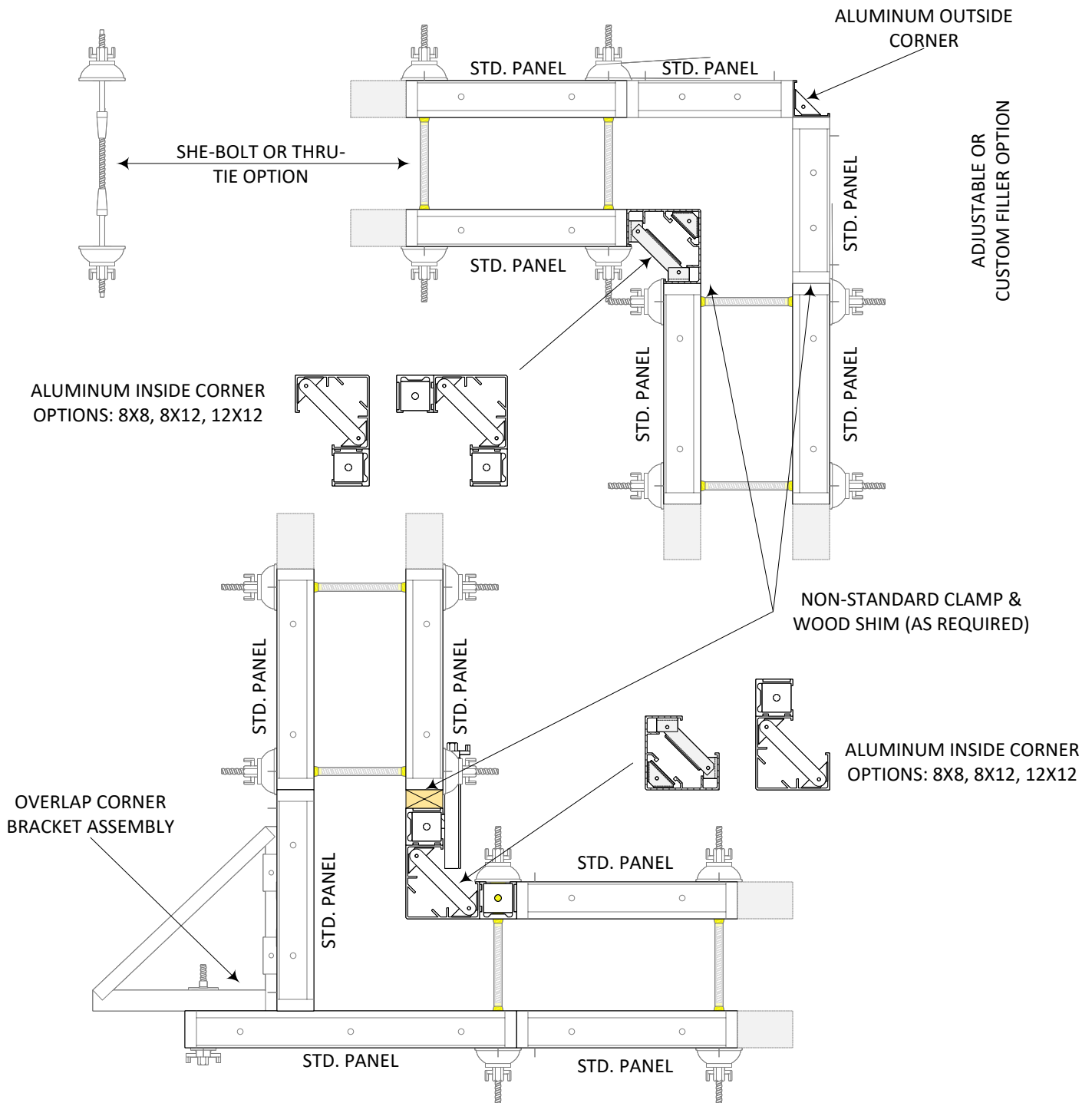
PRESET ANCHOR LOCATIONS - USE
EXISTING TIE PORT LOCATIONS



OPTIMAL TIE SPACING SHOWN USING 3' WIDE PANELS – SPACING MAY CHANGE BASED ON POUR PRESSURES & PANEL CONFIGURATION

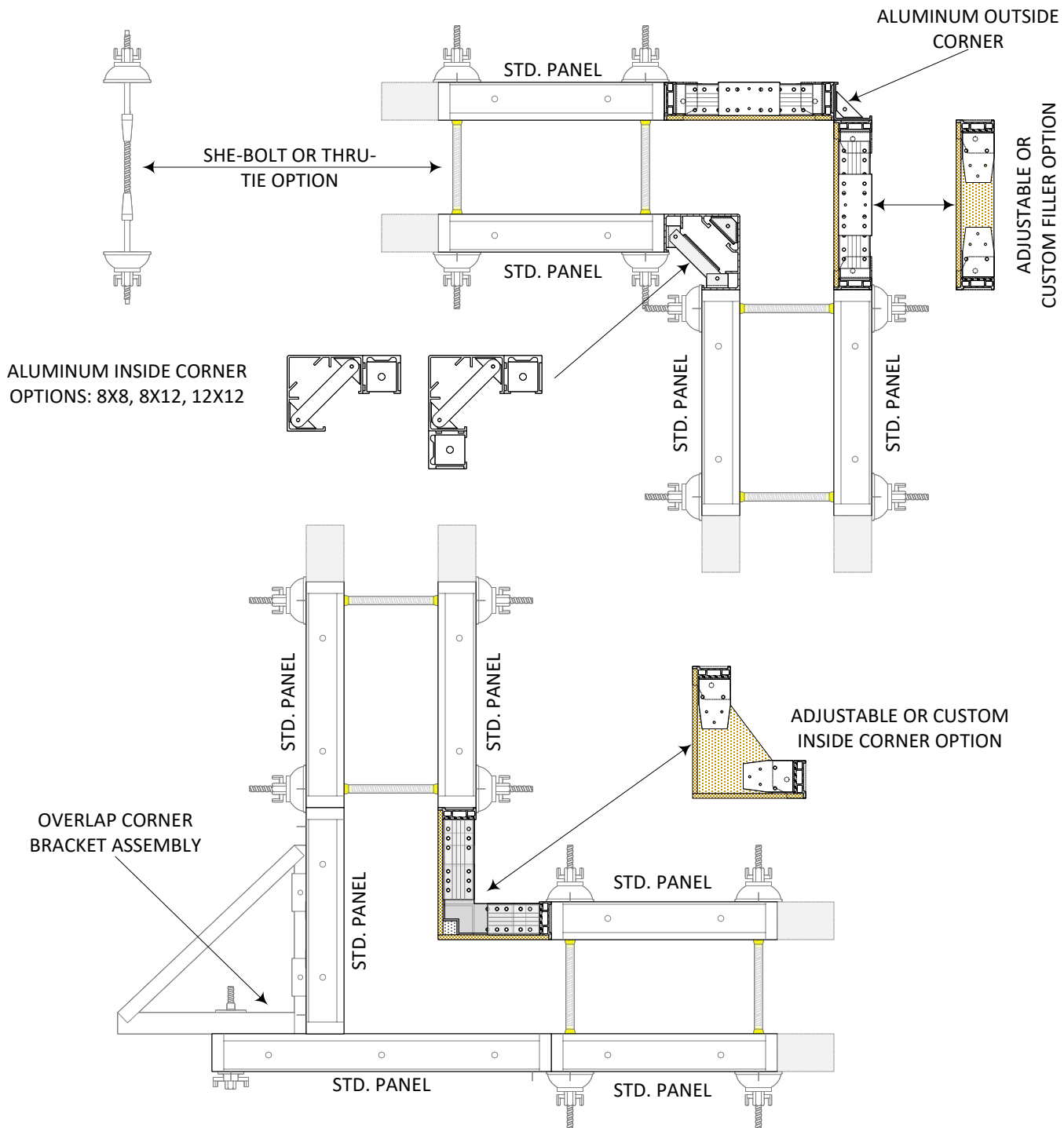


OPTIMAL TIE SPACING SHOWN USING 3' WIDE PANELS – SPACING MAY CHANGE BASED ON POUR PRESSURES & PANEL CONFIGURATION



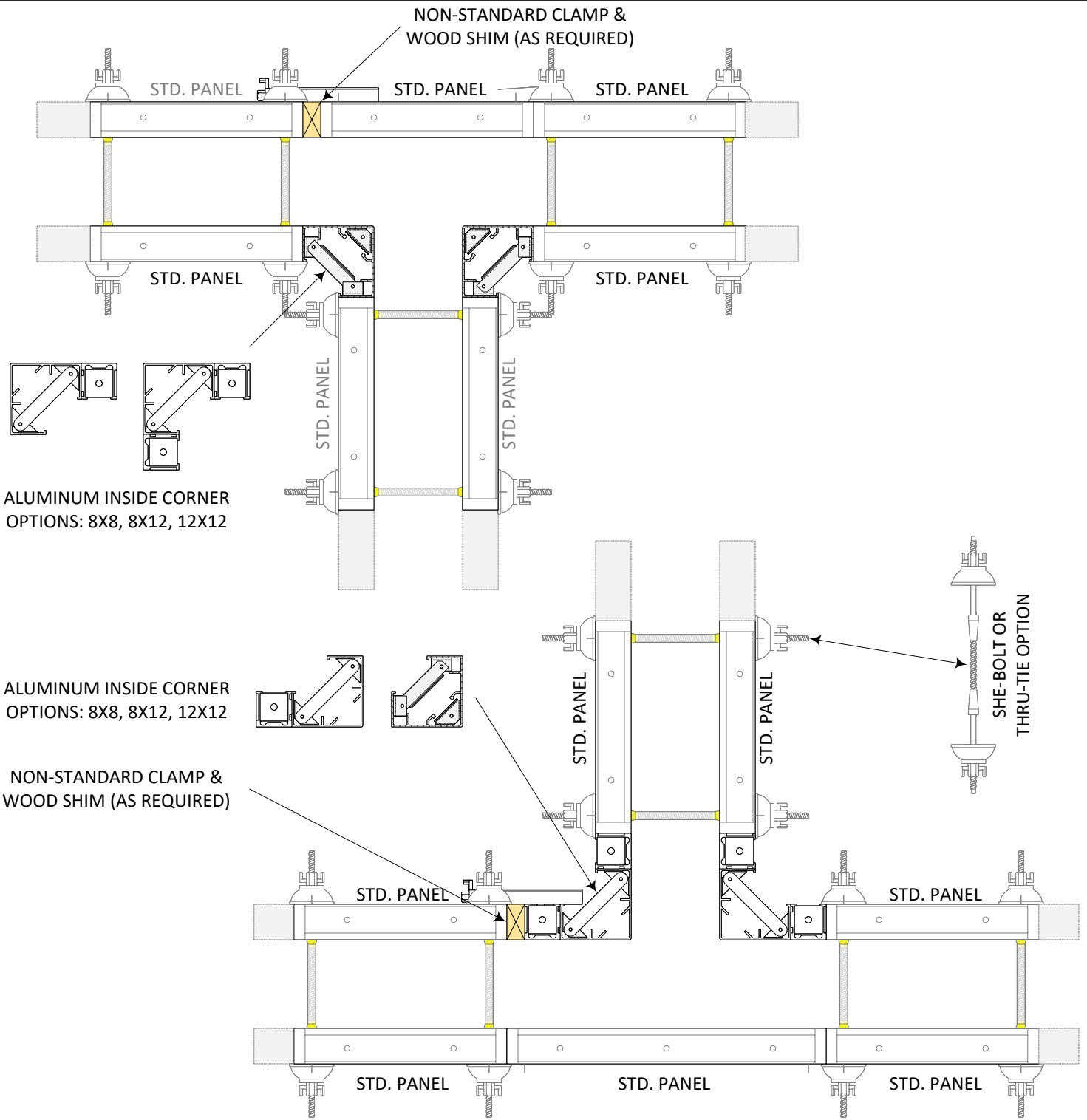
FORMING RIGHT ANGLE CORNERS WITH VARIOUS COMBINATIONS PANELS, FILLERS AND CORNERS:

- 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 REQUIREMENTS; CONSULT ENGINEERING FOR DESIGN REQUIREMENTS**



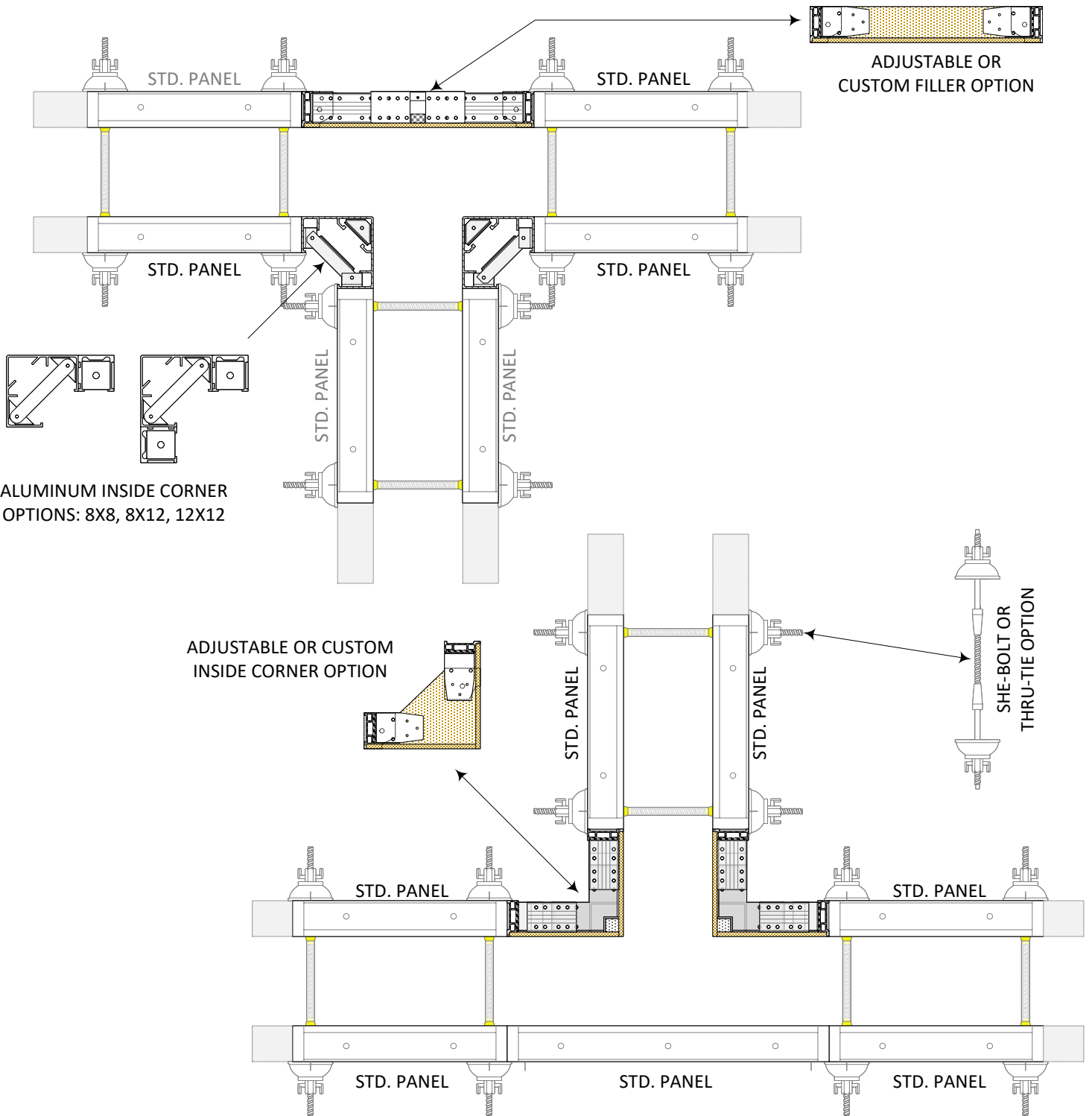
FORMING RIGHT ANGLE CORNERS WITH VARIOUS COMBINATIONS PANELS, FILLERS AND CORNERS:

- 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 REQUIREMENTS; CONSULT ENGINEERING FOR DESIGN REQUIREMENTS**



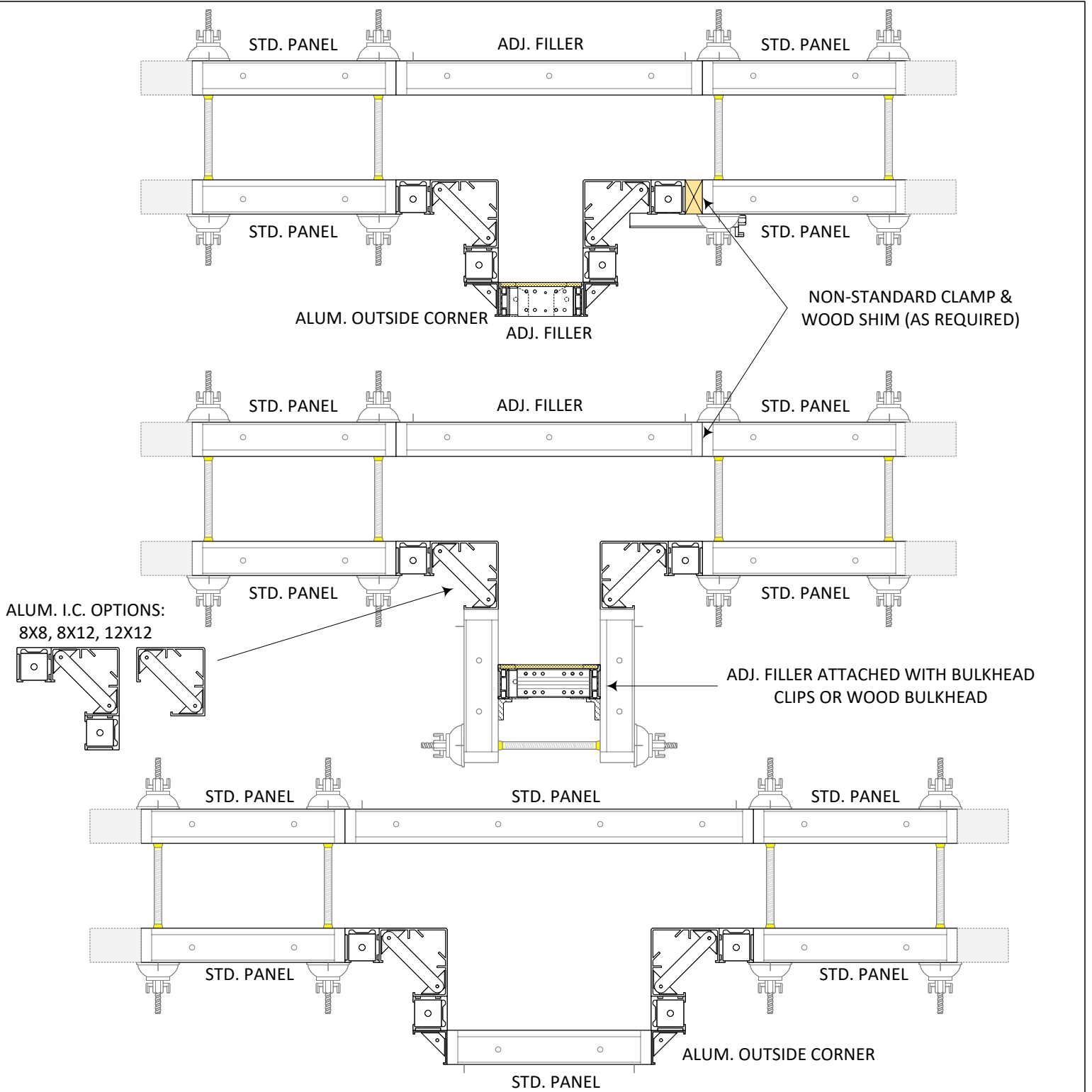
FORMING RIGHT ANGLE TEE WALLS WITH VARIOUS COMBINATIONS PANELS, FILLERS AND CORNERS:

- 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 REQUIREMENTS; CONSULT ENGINEERING FOR DESIGN REQUIREMENTS**



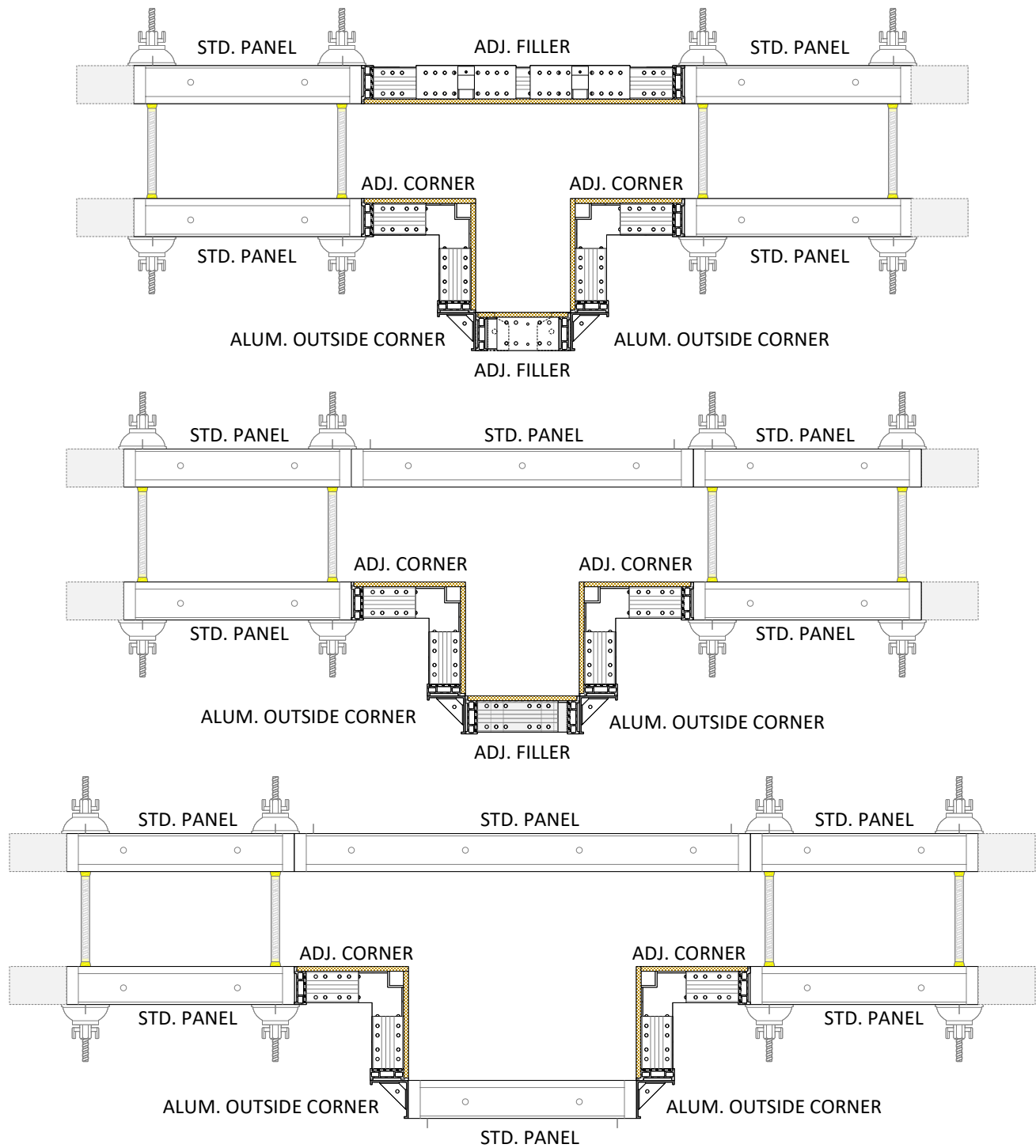
FORMING RIGHT ANGLE TEE WALLS WITH VARIOUS COMBINATIONS PANELS, FILLERS AND CORNERS:

- 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 REQUIREMENTS; CONSULT ENGINEERING FOR DESIGN REQUIREMENTS**



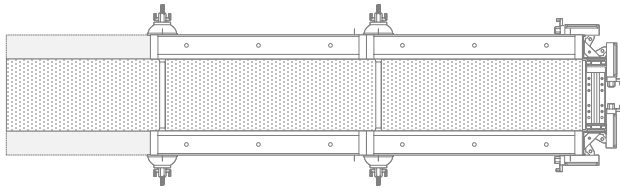
FORMING PILASTERS WITH VARIOUS COMBINATIONS PANELS, FILLERS AND CORNERS:

- 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 REQUIREMENTS; CONSULT ENGINEERING FOR DESIGN REQUIREMENTS**



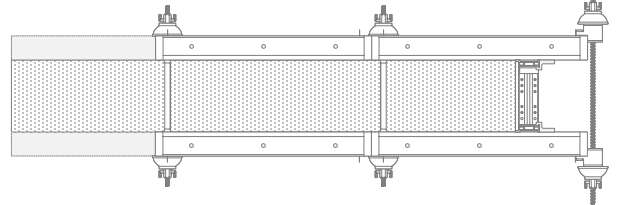
FORMING PILASTERS WITH VARIOUS COMBINATIONS PANELS, FILLERS AND CORNERS:

- 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 REQUIREMENTS; CONSULT ENGINEERING FOR DESIGN REQUIREMENTS**

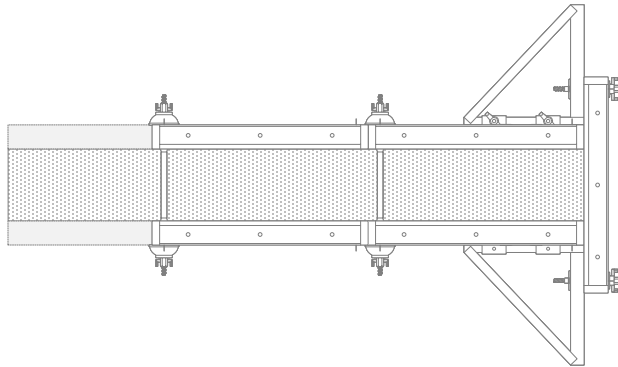


ADJUSTABLE FILLER WITH ALUM.
OUTSIDE CORNERS

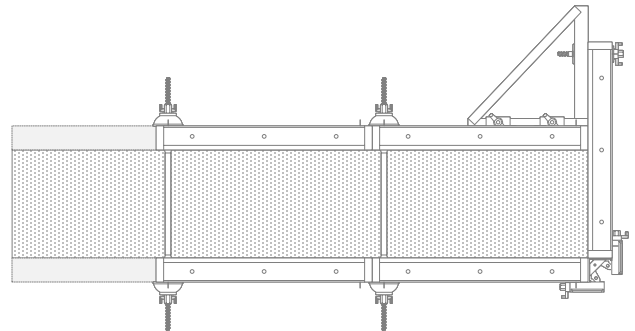
(OPTIONALLY, USE THRU-ROD AND PANEL TIE PORT)



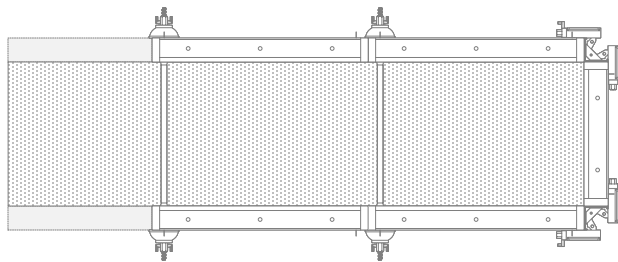
ADJUSTABLE FILLER, BULKHEAD
CLIPS & DRY TIE ASSEMBLY



STANDARD PANELS WITH
OVERLAP BRACKETS



STANDARD PANELS WITH
OVERLAP BRACKETS

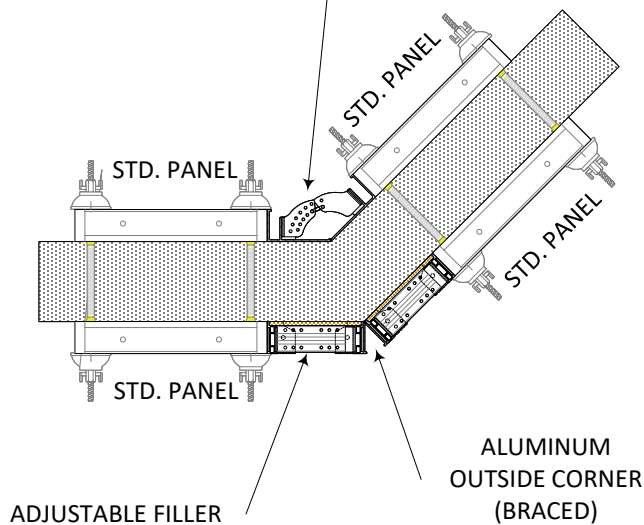


STANDARD PANELS WITH ALUM.
OUTSIDE CORNERS

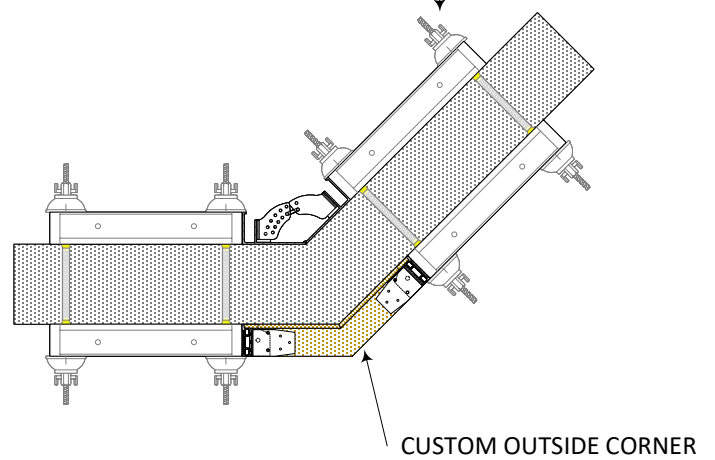
FORMING BULKHEADS WITH A COMBINATION OF OVERLAP CORNER BRACKETS AND STANDARD ALUMINUM OUTSIDE CORNERS:

- 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**

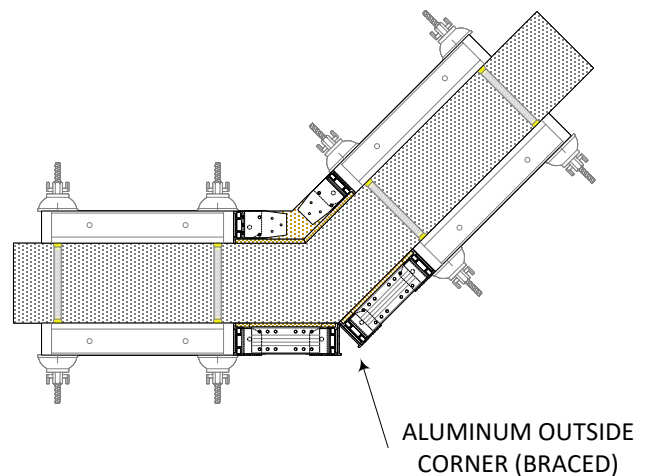
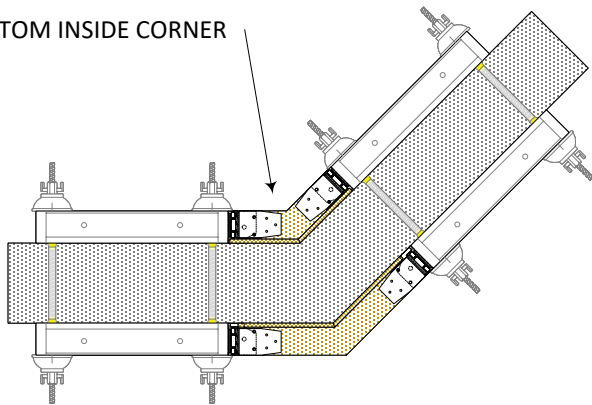
8" ALUMINUM INSIDE CORNER



WET OR DRY TIE ASSEMBLY



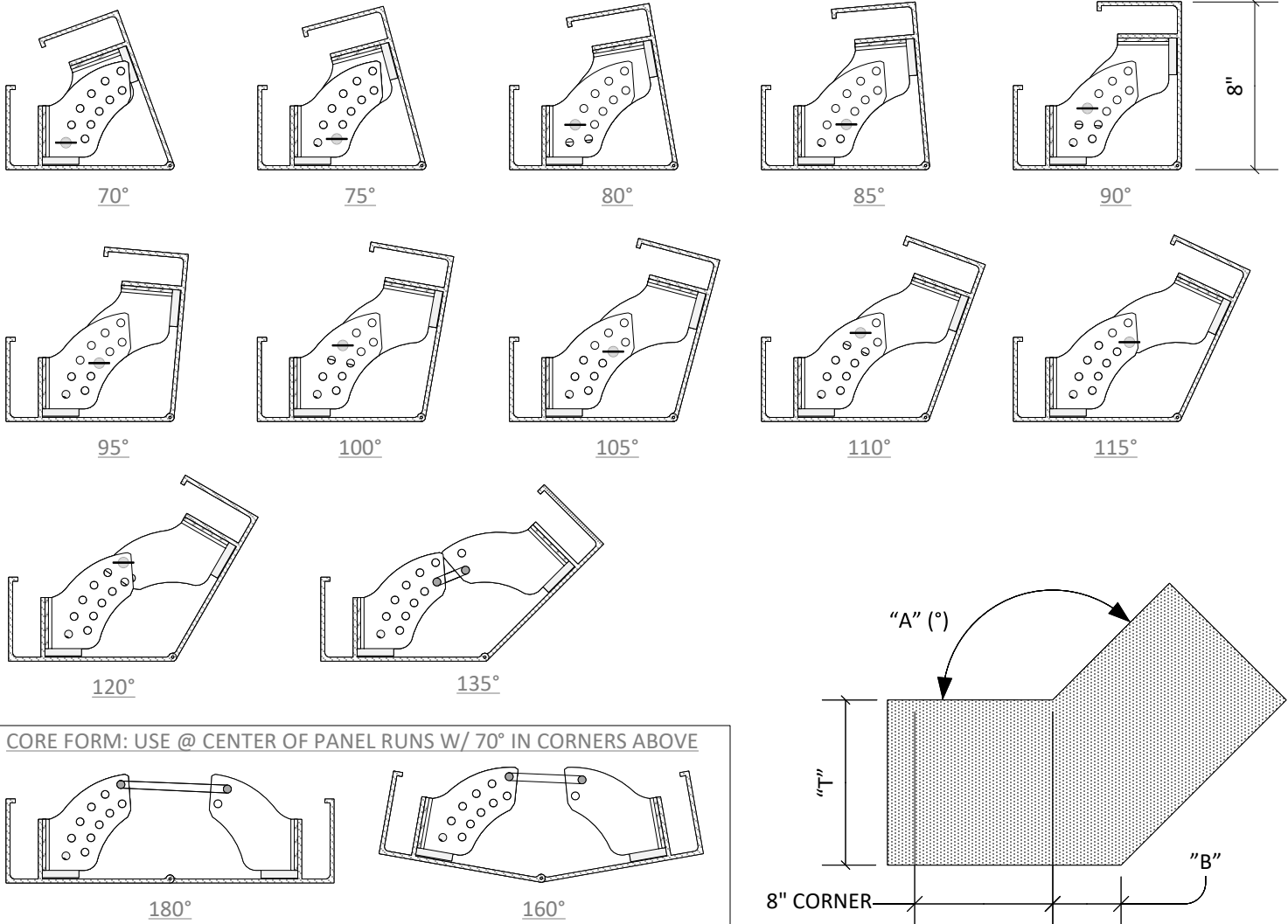
CUSTOM INSIDE CORNER



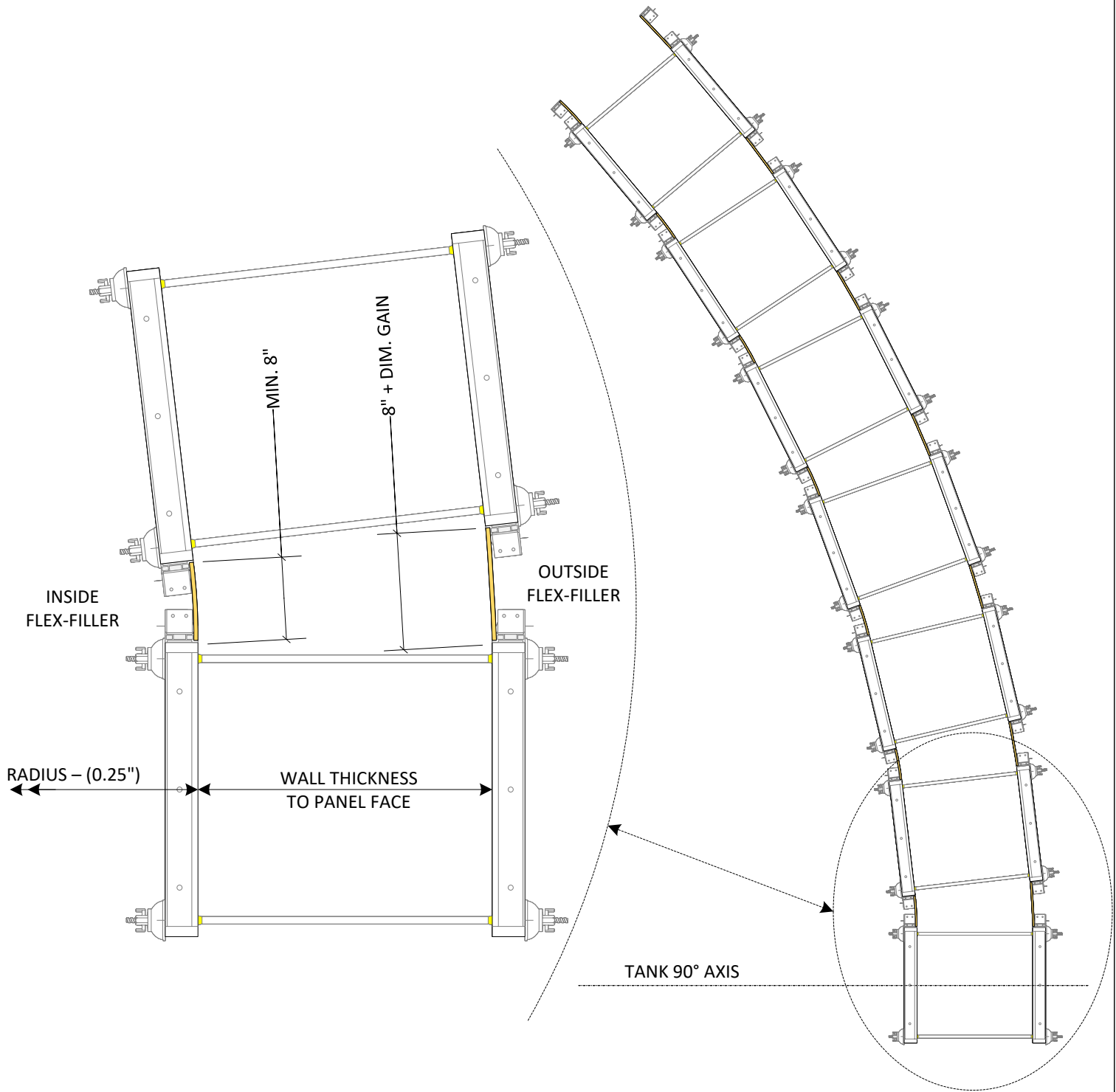
FORMING VARIABLE ANGLED WALLS:

- 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**

ALLFORM COMPONENT HANDBOOK – PART 1 FORMING

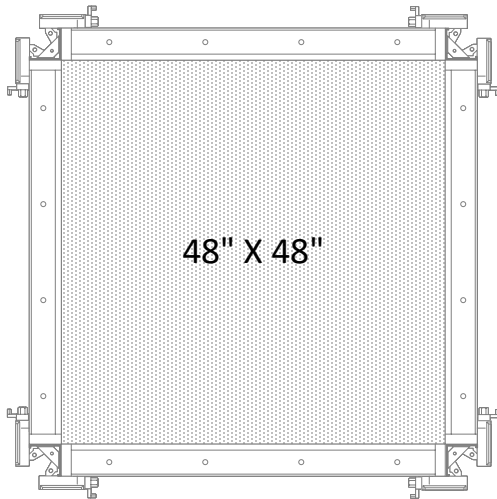


"A" - INSIDE ANGLE (°)	"T" - WALL THICKNESS (INCHES)											
	8	10	12	14	16	18	20	22	24	26	28	30
	"B" - WALL MAKEUP (INCHES)											
70	11.43	14.28	17.14	19.99	22.85	25.71	28.56	31.42	34.28	37.13	39.99	42.84
75	10.43	13.03	15.64	18.25	20.85	23.46	26.06	28.67	31.28	33.88	36.49	39.10
80	9.53	11.92	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

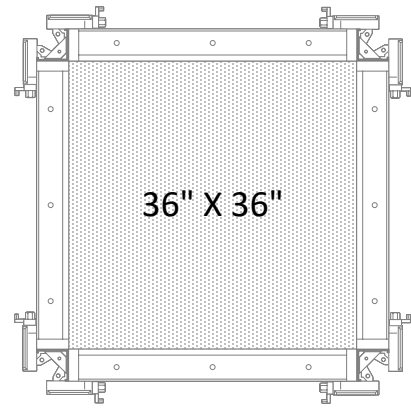


FORMING CIRCULAR WALLS WITH CHORDED PANELS:

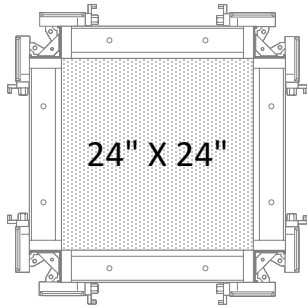
- UTILIZE STANDARD PANELS AND FILLER SIDERAILS (FLEX-FILLERS) TO ACHIEVE RADIAL REQUIREMENTS
- SET INSIDE PANEL APPROXIMATELY 0.25" SHORT OF THE INSIDE TANK RADIUS TO ACCOUNT FOR PANEL CHORD DEPTH
- ONLY USE 2' WIDE PANELS ON TANKS 30' IN DIAMETER OR LESS; USE 2' OR 3' WIDE PANELS FOR DIAMETERS GREATER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



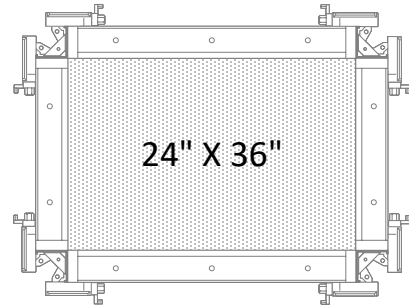
4' PANELS & ALUM.
OUTSIDE CORNERS



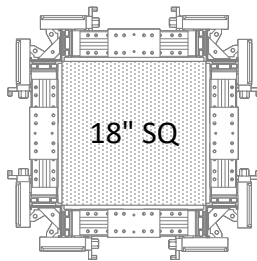
3' PANELS & ALUM.
OUTSIDE CORNERS



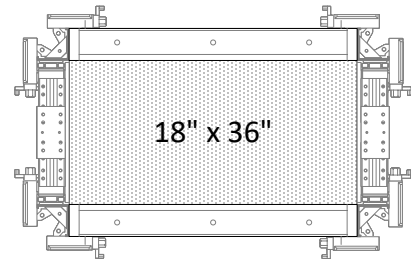
2' PANELS & ALUM.
OUTSIDE CORNERS



MIXED SIZE PANELS &
ALUM. OUTSIDE CORNERS



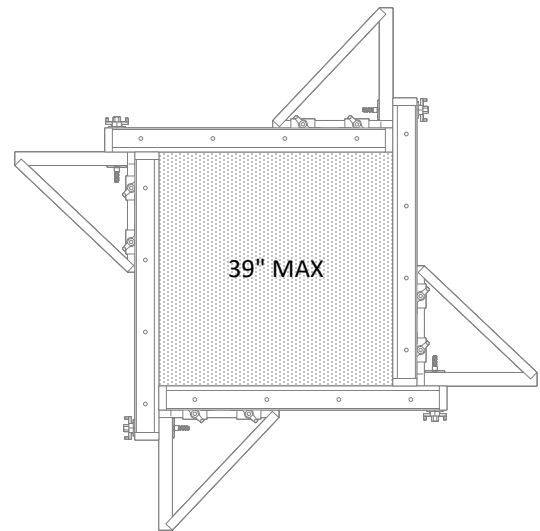
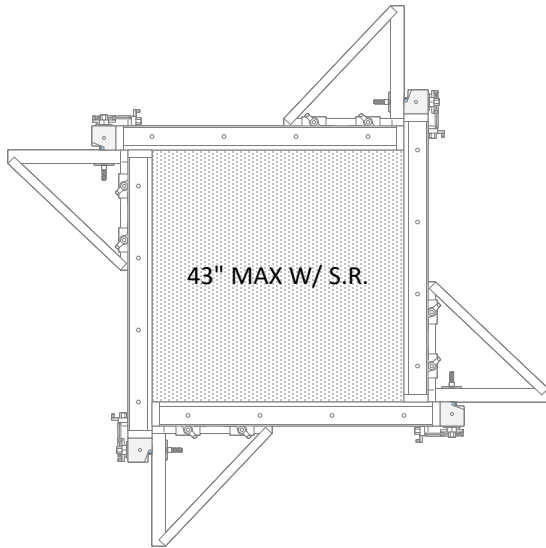
ADJUSTABLE FILLER & ALUM.
OUTSIDE CORNERS



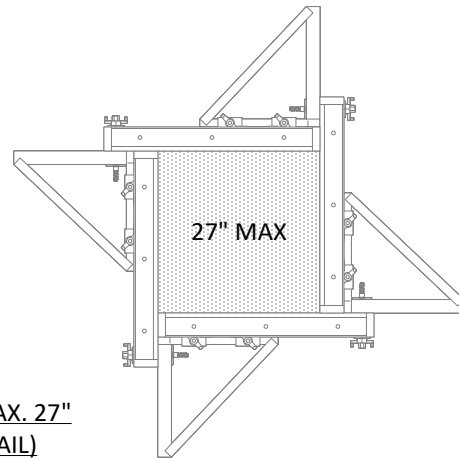
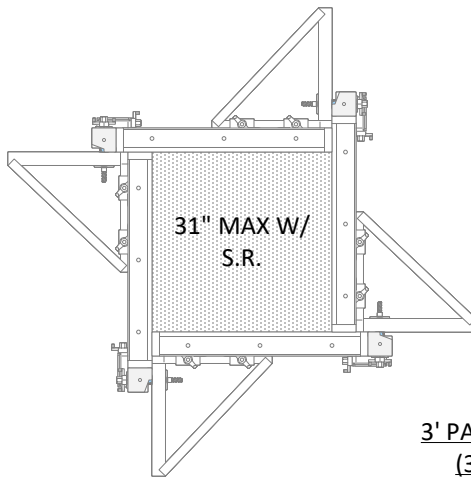
PANEL / ADJ. FILLER & ALUM.
OUTSIDE CORNERS

FORMING COLUMNS WITH STANDARD ALUMINUM OUTSIDE CORNERS:

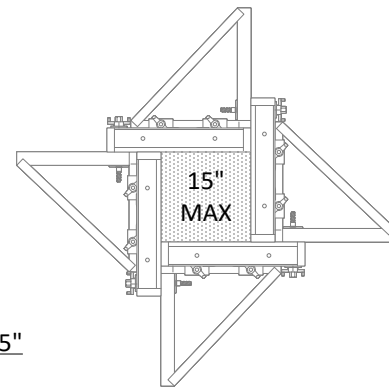
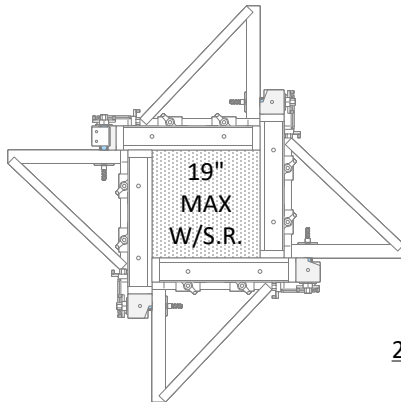
- UTILIZE STANDARD PANELS, ADJUSTABLE FILLERS OR A COMBINATION OF BOTH
- OPTIONALLY USE (1) HINGE OUTSIDE CORNER TO CLAM SHELL COLUMN FORM FOR SINGLE CRANE LIFT
- **STANDARD CLAMP AND HIGH PRESSURE CORNER CONNECTOR SPACINGS ARE BASED ON POUR PRESSURE REQUIREMENTS; CONSULT ENGINEERING FOR DESIGN REQUIREMENTS**



4' PANELS – MIN. 27" / MAX. 39"
(43" MAX. WITH SIDERAIL)



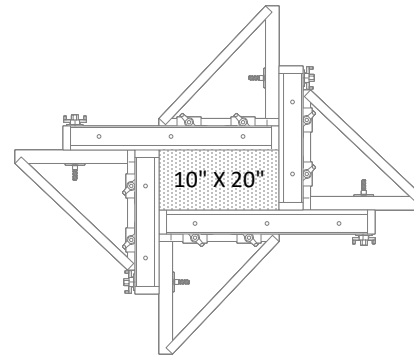
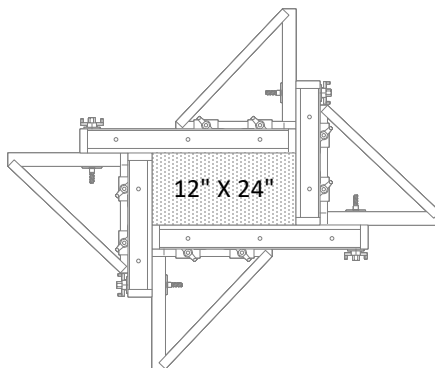
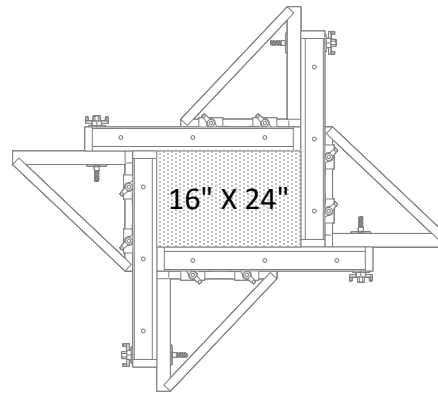
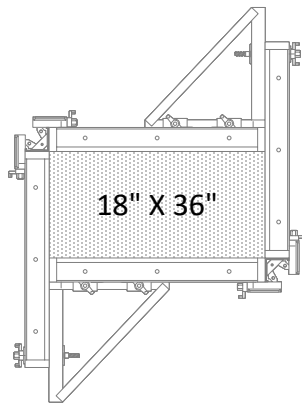
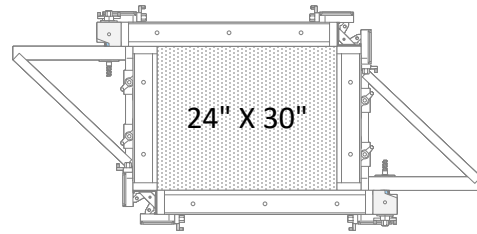
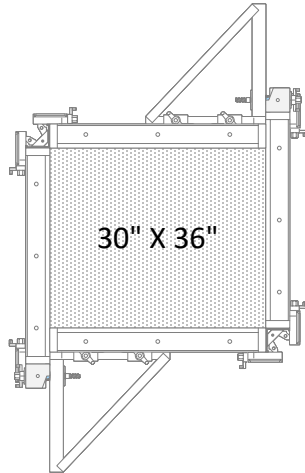
3' PANELS – MIN. 15" / MAX. 27"
(31" MAX. WITH SIDERAIL)



2' PANELS – MIN. 3" / MAX. 15"
(19" MAX. WITH SIDERAIL)

FORMING COLUMNS WITH OVERLAP CORNER BRACKETS:

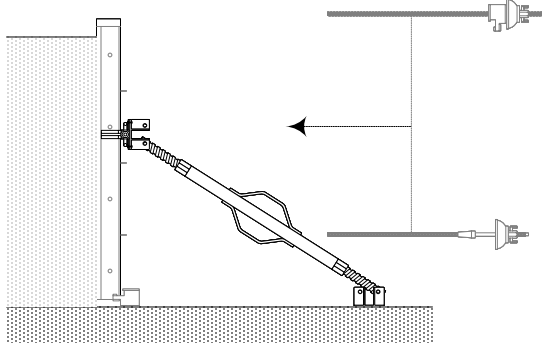
- UTILIZE STANDARD PANELS AND OVERLAP CORNER BRACKETS TO ACHIEVE DIMENSIONAL REQUIREMENTS
- REMOVE GREEN TIE PLUG AND INSTALL BLUE TIE INSERT AT LOCATIONS REQUIRED FOR OVERLAP TIE ROD ASSEMBLY; IF THE FILLER SIDERAIL IS BEING USED FOR ADDITIONAL WIDTH, USE BOTH THE RED TIE PORT AND BLUE TIE INSERTS AT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



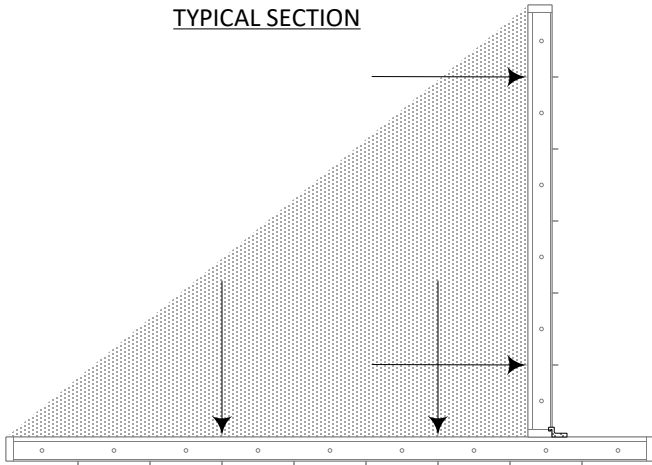
FORMING COLUMNS WITH A COMBINATION OF OVERLAP CORNER BRACKETS AND STANDARD ALUMINUM OUTSIDE CORNERS:

- 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 REQUIREMENTS; CONSULT ENGINEERING FOR DESIGN REQUIREMENTS**

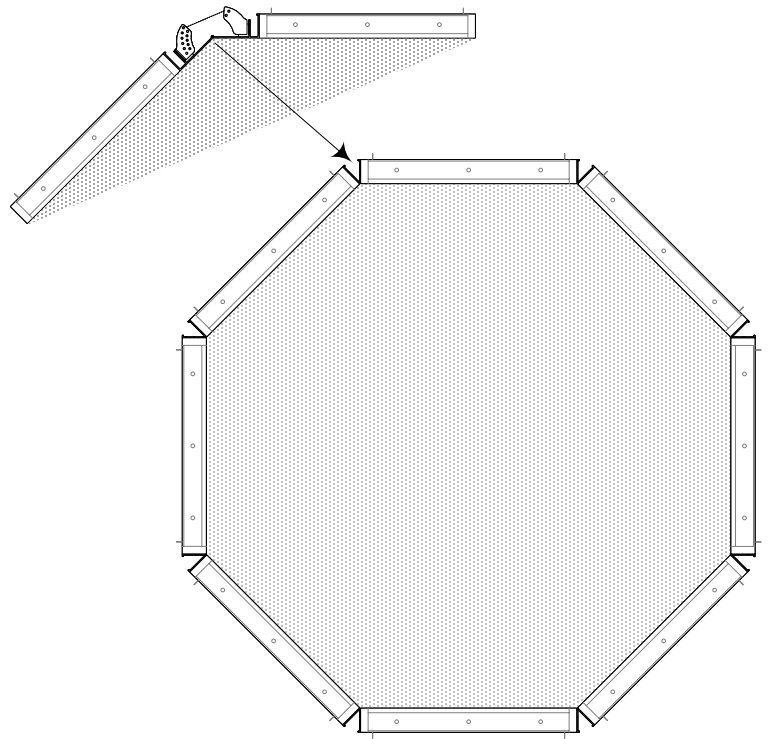
**ANCHORED AND BRACED
OR TIED TO REBAR MATTE**



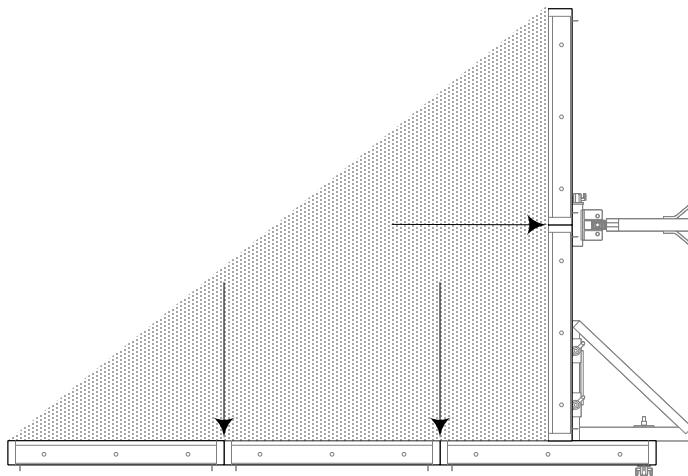
TYPICAL SECTION



OVERLAPPING HORIZONTAL PANELS WITH BULKHEAD CLIPS

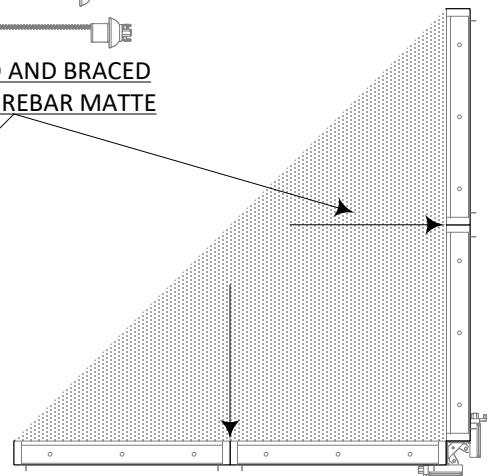
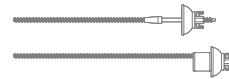


**POLYGON SHAPED PEDESTALS / FOUNDATIONS
(USE HINGED INSIDE OR OUTSIDE CORNERS)**



VERTICAL PANELS WITH OVERLAP CORNER BRACKET

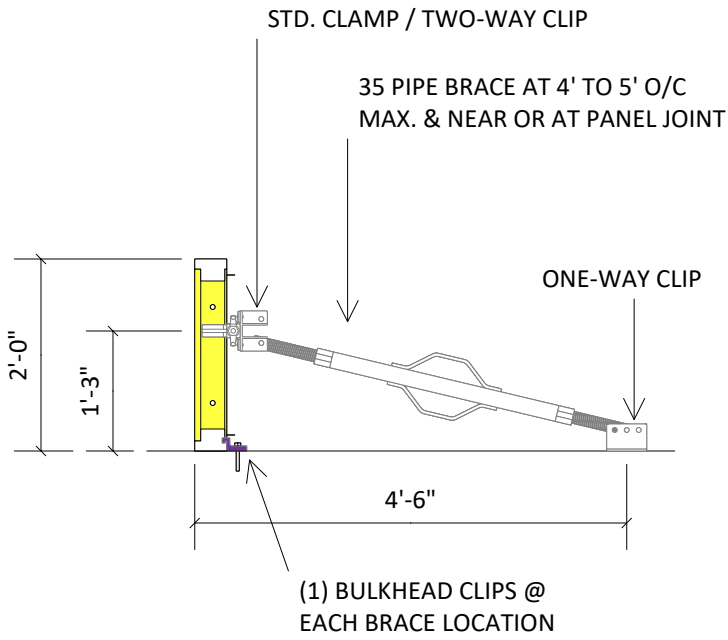
**ANCHORED AND BRACED
OR TIED TO REBAR MATTE**



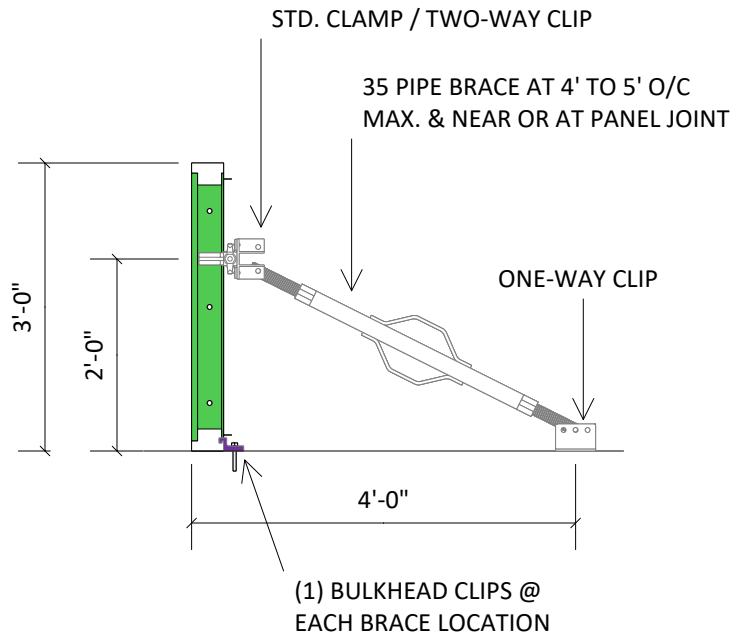
VERTICAL PANELS WITH ALUMINUM OUTSIDE CORNERS

FORMING LARGE FOUNDATIONS (BRACED OR TIED):

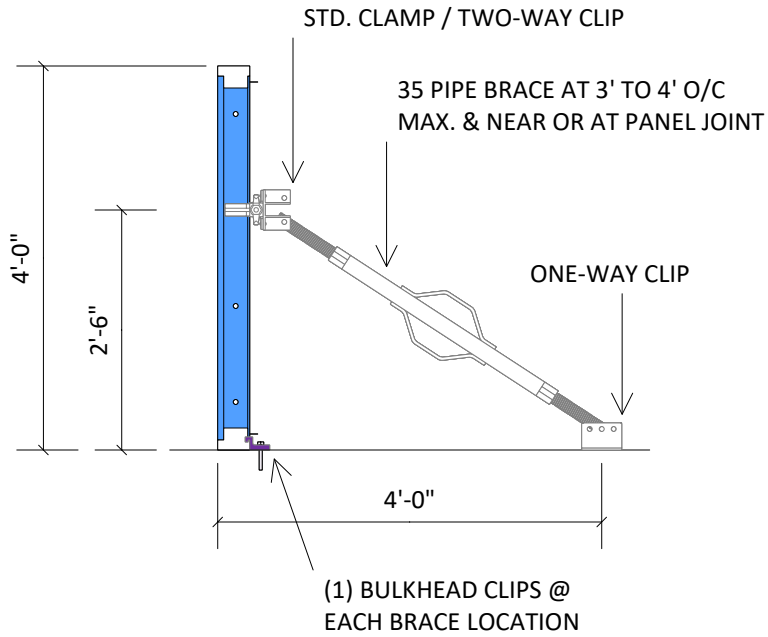
- UTILIZE STANDARD VERTICAL OR HORIZONTAL PANELS, OVERLAP CORNER BRACKETS, HOLD-DOWNS, BULKHEAD CLIPS, AND / OR ALUMINUM OUTSIDE CORNERS TO ACHIEVE DIMENSIONAL REQUIREMENTS
- REMOVE GREEN TIE PLUG AND INSTALL BLUE TIE INSERT AT LOCATIONS REQUIRED FOR OVERLAP TIE ROD ASSEMBLY; IF THE FILLER SIDERAIL IS 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 REQUIREMENTS; CONSULT ENGINEERING FOR DESIGN REQUIREMENTS**



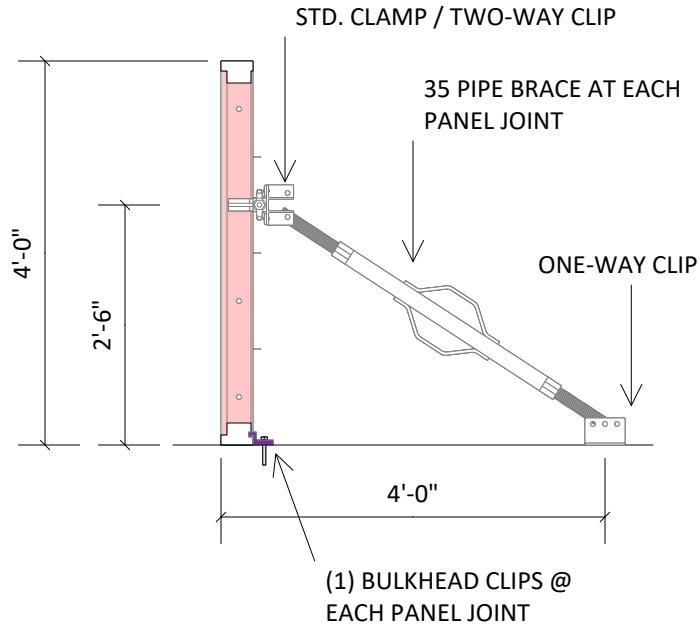
2' HORIZONTAL PANEL



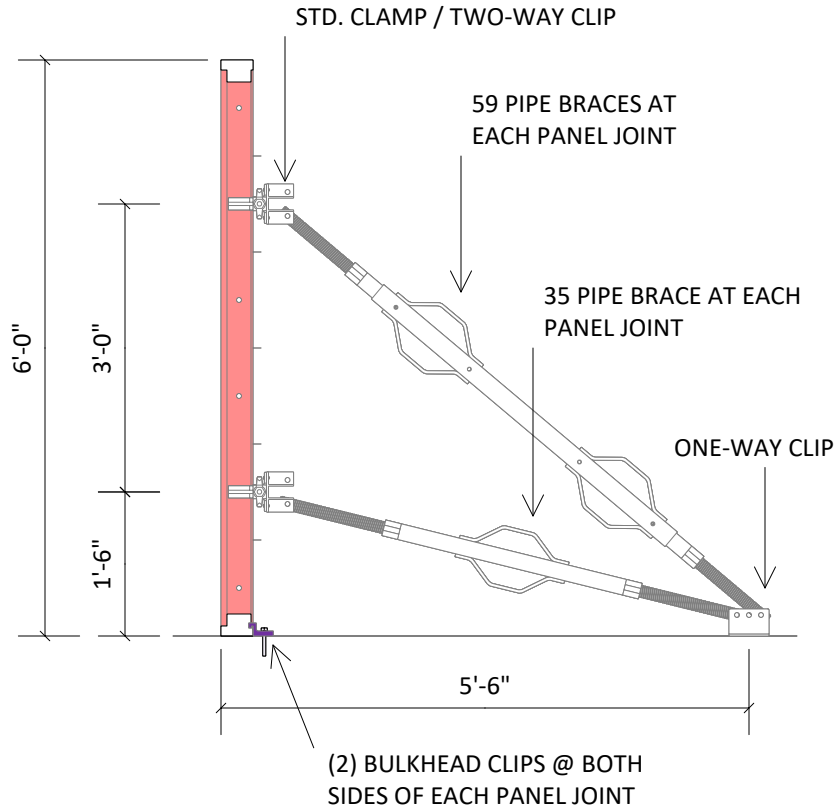
3' HORIZONTAL PANEL



4' HORIZONTAL PANEL



4' VERTICAL PANEL



6' VERTICAL PANEL

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