

METALWALK® ROOFTOP WALKWAY & SAFETY HANDRAIL INSTALLATION INSTRUCTIONS - R PANELS



METALWALK® INSTALLATION INSTRUCTIONS CONTENTS

SECTION 1:	PAGES
WRITTEN INSTRUCTIONS	3 - 6
METALWALK® COMPONENTS	7
RAILING COMPONENTS	8
GRATING DETAIL	9
 SECTION 2:	
PARALLEL RUNS	10 - 13
 SECTION 3:	
PERPENDICULAR RUNS	14 - 19
 SECTION 4:	
PITCH CORRECTED SYSTEM	20 - 24
 SECTION 5:	
CORNER CONDITIONS	25
RIDGE CONDITION	26
CAGED LADDER CONDITION	27
SWING GATE	28
TOE KICK	29
HANDRAIL	30 - 31



METALWALK® INSTALLATION INSTRUCTIONS FOR R PANELS

PART 1 GENERAL

- 1.01 PARALLEL RUNS - Up and down the slope, from ridge to eave.
- 1.02 PERPENDICULAR RUNS - Across roof high ribs (same as the ridge cap).
- 1.03 Use lengths of nominal 10', 12', 20' or 24'-0" grating sections and 10' or 21' handrail tubing to reduce waste. (Other lengths available.) Check roof plans provided by architect and METALWALK® drawings from manufacturer.
- 1.04 Assemble grating sections. Starting with male/female grating section and finish with male/male.
- 1.05 Support plates are provided for METALWALK® grating with or without handrail.
- 1.06 Remove debris and clean roof of metal shavings from drilling.
- 1.07 Spray cut ends of METALWALK® grating sections with Galvanizing Compound or rust inhibitive primer.

PART 2 TOOL LIST

- 2.01 Power chop saw with metal cutting blade, or tubing cutter, to accept 1.9" OD pipe.
- 2.02 Allen hex wrench 3/16" or 5/16" size (depends on fitting type).
- 2.03 Ratchet socket set, 3/8" drive, 1/2" hex head socket.
- 2.04 Box or open end 1/2" wrench, or adjustable wrench.
- 2.05 Electric screw gun, speed 0-2500 rpm, reversing.
- 2.06 Magnetic 5/16" hex head bit with 1/4" shank drive.
- 2.07 Electric drill with 5/16" drill bit.

PART 3 PRODUCTS

3.01 PARALLEL RUNS (Up and down the slope, from ridge to eave)

A. SUPPORT PLATE (with or without handrail)

1. Maximum support plate spacing is 6'-0" o.c., located over roof system. **NOTE:** Area to have handrail installed requires support plates with (4) pre-punched 5/16" diameter holes on one or both ends to accommodate vertical post square base flange. Support plate will extend out from the roof panel rib up to 6". Other sizes available on special order. (*Determine which side of the METALWALK® grating the handrail is to be located from layout drawings.*)
2. Position the square flange base over the (4) 5/16" diameter holes of the support plate on the desired side where handrail is being supplied. (SEE ROOF LAYOUT DRAWING) Install the square base to the support plate using (4) 5/16"-18x1" with flat washers and lock nuts supplied. Tightened to 130-150 inch lbs of torque.
3. Layout spacing of support plates so that the METALWALK® grating sections butt end to end on the center of a support plate. No more than 12" of the spacing should project past the end of the support plate.
4. At each location of support plate apply strips of tape mastic on top of ribs that will support the span. Fasten support plate to ribs using Fab-Lok® fasteners. Field drill 5/16" diameter holes thru support plate, mastic & panel. Install Fab-Lok's to support plates and panels.



B. METALWALK® GRATING SECTIONS - PARALLEL RUNS

1. Align METALWALK® grating sections parallel to roof panel major ribs on the Support Plate.
2. Install (1) MHC25 Hold Down Clamp thru open rungs of each grating plank onto the support plate using (2) 12-14 x 3/4" self-drilling fasteners.
3. Fasteners should be centered to penetrate the mid-section of the support plate.
4. Use an electric screw gun with a magnetic 5/16" hex head bit set to a proper hold-down torque, minimum of 92 inch pounds.

3.02 PERPENDICULAR RUNS - Across roof high ribs, same direction as ridge cap.

A. METALWALK® GRATING SECTIONS

1. Align Hat Channels where perpendicular runs occur. Maximum spacing is 6'-0" o.c. Apply tape mastic to underside of each leg of the Hat Channel that touches the roof panel.
2. If Handrail is used, align Square Flange Base with pre-drilled 5/6" holes on Hat Channel. Attach base to Hat Channel using (4) 5/16"-18x1" Bolts, Nuts & Lock washers. Tighten to 130-150 inch lbs of torque.
3. After aligning Hat Channels, field drill holes through the bottom leg of Hat Channel, mastic and roof panel. Attach using Fab-Lok® Fasteners. Tighten to specified torque. **NOTE:** Fablok's cannot be removed after installation.
4. Install MHC25 Clamp thru open rungs of each grating plank onto Hat Channel using (2) 12-14 x 3/4" self-drilling fasteners. **SEE NOTE BELOW**

B. SPLICE CHANNEL (IF REQUIRED)

1. Where two METALWALK® grating sections are butted end to end, on perpendicular runs, install a splice channel from the underside.
2. Center splice channel 1-1/2" either side of joint.
3. Fasten splice channel with 12-14 x 3/4" self-drilling fasteners into each grating section, total of (4) fasteners, (2) each side.
4. Install MHC25 hold down clamp thru open rungs onto the splice channel using (2) 12-14 x 3/4" self-drilling fasteners per MHC25 Clamp. (1) per 12" wide plank.
5. ***Important** - Check the fastener locations and penetrations through the splice channel, that these will **not** penetrate the roof panel standing seam major rib area.

C. LEDGER ANGLE (IF REQUIRED)

1. Where METALWALK® grating sections butt into side of a parallel run, fasten a ledger angle using 12-14 x 3/4" self-drilling fasteners, equally spaced.
2. Rest end of grating section on ledger angle.
3. Install MHC25 clamp thru open rungs onto the ledger angle using 12-14 x 3/4" self-drilling fasteners. (1) per 12" wide plank. Use an electric screw gun with a magnetic 5/16" head bit set to the proper hold-down torque of minimum of 92 inch pounds. Do not over torque fasteners which could cause deformation of METALWALK® grating section.
4. ***Important** - Check the fastener locations and penetrations through the ledger angle, that these will **not** penetrate the roof panel standing seam major rib area.



3.03 HANDRAIL

A. VERTICAL POSTS

1. Position the slip-on Square Flange Base for the vertical post over the pre-punched holes with the set screws pointed out from the grating to allow room for ease of tightening the set screws with an allen wrench. Secure the Square Flange Base to the support plate using (4) 5/16" x 1" bolts, (8) 7/8" washers and (4) lock nuts. 7/8" washers to be installed under each nut and bolt head. Tighten to 130-150 inch lbs torque.
2. Insert pre-cut 42-3/4" tubing, 1.9" OD into the Square Flange Base on support plate, make sure it bottoms out, then secure by tightening the (2) setscrews to 204 inch pounds.
3. Mark Vertical Posts from the top at 19" for receiving midrail Cross slip-on fitting (top of fitting).

B. MID-RAIL

1. Determine if mid-rail is to be located on the inside or outside of the railing.
2. Slide on Vertical Posts a Cross slip-on fitting with the open barrel to the side to receive midrail.
3. Secure temporarily in place at the pre-marked 19" (top of fitting) by tightening one setscrew lightly with Allen hex wrench.
4. Measure the distance from center to center of the two end vertical posts and add 2-1/4". Cut lengths from the standard 1.9" OD tubing and join together with the pre-tapered end or if cut to length, join together at the Vertical Post Cross slip-on fitting. If the tubing joint is mid-way between Vertical Posts an External Coupling (optional) slip-on fitting can be installed.
5. Assemble mid-rail by sliding tubing through all of the Cross slip-on fittings, adjust as necessary for alignment, tighten all setscrews to 204 inch pounds.
6. Install Metal Plug in the mid-rail tubing at each end of the Vertical Post OR install Elbow with a piece of vertical piece of tubing to connect with Elbow on top rail where handrail needs to extend past the end of the Vertical Post.

C. TOP RAIL

1. Measure the distance from center to center of the two end vertical posts. Cut lengths from the standard 1.9" OD tubing so that they will butt together at the Vertical Post Tee or join together with the pre-tapered end. If the tubing joint is mid-way between Vertical Posts an External Coupling (optional) slip-on fitting can be installed.
2. Slide on each Vertical Post a Tee slip-on fitting with the setscrew pointed away from METALWALK® grating.
3. Slide the 1.9" OD tubing through the Tee slip-on fittings. At each end Vertical Post install an Elbow. The top rail tubing should be resting on the Vertical Posts.
4. Secure in place by tightening setscrews with Allen hex wrench to 204 in. lbs.



D. CORNER CONDITION

1. OUTSIDE CORNER: Extend pipe past the tee and cross fitting of the last vertical post at desired corner. Field measure pipes to align with intersecting pipes at corner and cut to desired length.
2. Install Elbow slip-on fitting to the pipes in the desired direction of the adjacent top and mid-rail. Tighten setscrew to 204 inch lbs.
3. Attach elbow to top-rail and mid-rail of adjacent pipes and tighten setscrew to 204 inch lbs.
4. INSIDE CORNER: Extend pipe past the tee and cross fitting of the last vertical post at desired corner. Field measure pipes to align with intersecting pipes at corner and cut to desired length. Be sure not to extend pipe into METALWALK® walking area.
5. Install Elbow slip-on fitting to the pipes in the desired direction of the adjacent top and mid rail. Tighten setscrew to 204 inch lbs.
6. Attach elbow to top-rail and mid-rail of adjacent pipes and tighten setscrew to 204 inch lbs.

E. DIAGONAL SUPPORT - OPTIONAL AT RAIL-END POST – USE ONLY WHEN SPECIFIED

1. Before installing the top railing, on the desired rail-end vertical post, install Adjustable Elbow slip-on fitting, direct it out from railing at 90 degrees.
2. Use a pre-cut 42-3/4" post OR cut tubing to proper length and insert into the Adjustable elbow and lightly tighten setscrew.
3. Install on the tubing end Angle Base OR Adjustable Flange, and lightly tighten setscrews.
4. Place a support plate across roof panel major high ribs, positioned under the end of the diagonal tubing. Align Angle Base OR Adjustable Flange on the center 4" wide section of support plate and mark location of the mounting (4) holes of the Flange to the Support Plate (if not already pre-punched).
5. Remove support plate, center punch, and drill the (4) 5/16" diameter holes.
6. Secure the Angle Base OR Adjustable Flange to the support plate using (4) 5/16"-18 x 1" bolts with flat washers under each bolt head and the self-locking nut assembly. Tighten the self-locking nuts to a torque of 130 to 150 inch lbs.
7. Install support plate, slip together tube into flange, attach to roof panel per Part 3.01, Section A-1.
8. Secure in place by tightening setscrews with Allen hex wrench to 204 inch lbs.

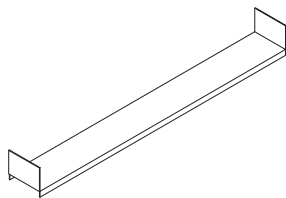
F. FINAL INSPECTION

1. Check for proper installation, proper torque setting of all bolts, nuts and setscrews, remove any metal shavings, all tools and equipment.
2. Spray cut ends of METALWALK® grating sections with galvanizing compound or rust inhibitive primer to prevent future rust.

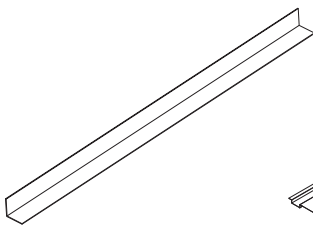
END OF SECTION



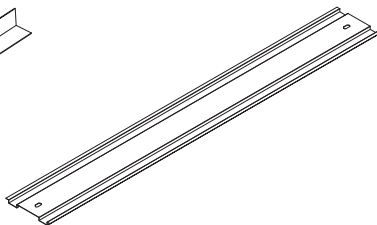
METALWALK® COMPONENTS



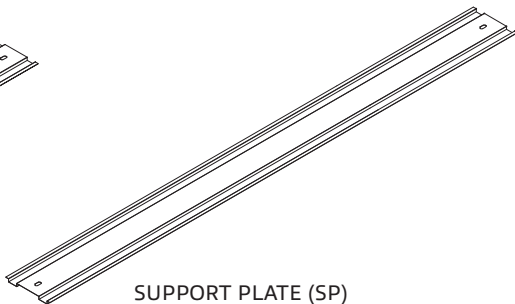
SPLICE CHANNEL (SC)
24", 36", OR 48"



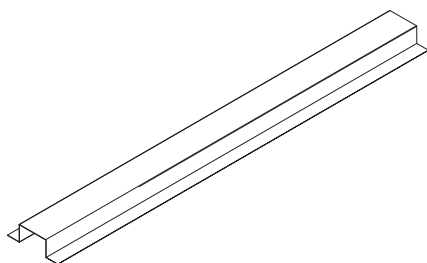
LEDGER ANGLE (LA)
24", 36", OR 48"



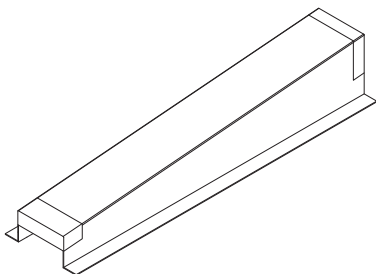
SUPPORT PLATE (SP)
24", 30", 36", OR 48"



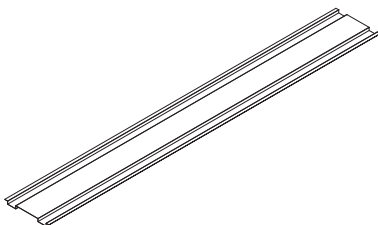
SUPPORT PLATE (SP)
54", 60", 72"



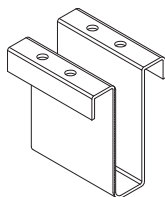
STANDARD HAT SECTION (HS)
FOR "R" PANEL INSTALLATION



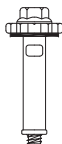
STANDARD PITCHED HAT SECTION (PHS)
FOR "R" PANEL INSTALLATION



SUPPORT PLATE (SP)
FOR "R" PANEL INSTALLATION



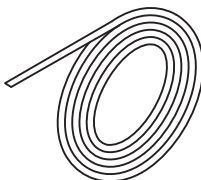
MHC25 HOLD DOWN CLAMP
(ATTACHES GRATING TO
PLATES)



FAB-LOK FASTENER
FOR "R" PANEL INSTALL



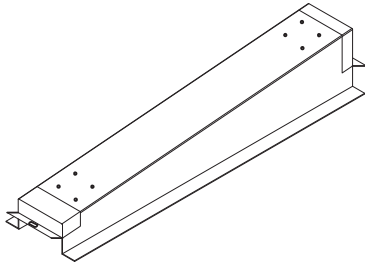
12-14 X 3/4" SDST FASTENER
(FOR ALL FASTENER
APPLICATIONS)



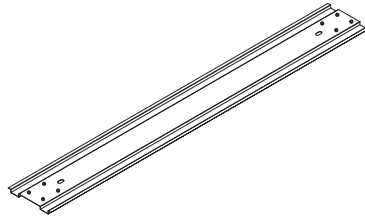
TAPE MASTIC



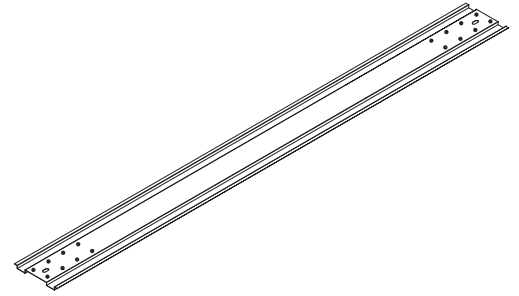
HANDRAIL COMPONENTS



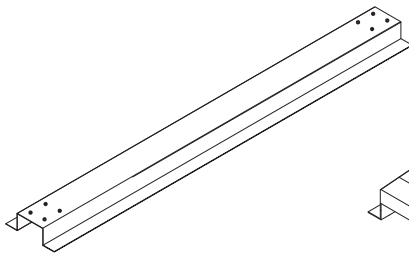
PHSR-PITCHED HAT FOR SSR
FOR PERPENDICULAR LEVEL RUNS



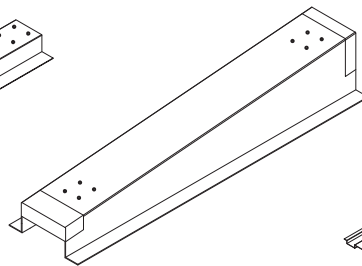
SPR RAILING SUPPORT PLATE FOR SSR
SPR-38 (SIZE BASED ON METALWALK® WIDTH)



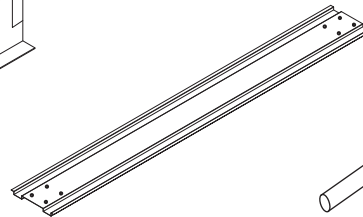
SPR RAILING SUPPORT PLATE FOR SSR
SPR-54 & 62 (SIZE BASED ON METALWALK® WIDTH)



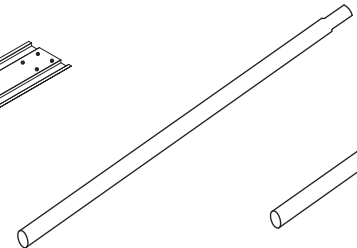
HSR-PITCHED HAT FOR "R"
PANEL FOR PERPENDICULAR
RUNS



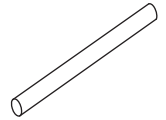
HSR-PITCHED HAT FOR "R"
PANEL FOR PERPENDICULAR
LEVEL RUNS



SPR RAILING SUPPORT
PLATE FOR "R" PANEL



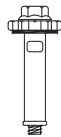
10'-6" LONG HORIZONTAL
PIPE W/ WEDGED END



42-3/4" LONG
VERTICAL POST



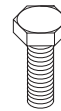
12-14 X 3/4" SDST
FASTENER



FAB-LOK FASTENER
FOR "R" PANEL INSTALL



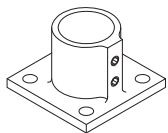
5/16" LOCK NUT
FOR RAIL BASE INSTALL



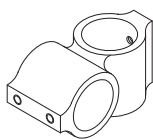
5/16" X 1" OR 1-1/2" LONG
FOR RAIL BASE INSTALL



1" DIA. FLAT WASHER
FOR RAIL BASE INSTALL



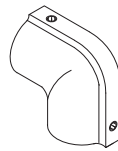
RAIL BASE #45SBC-8



CROSS #12-8



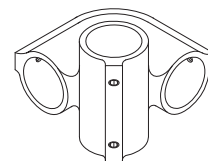
TEE #5E-8



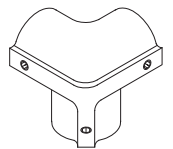
ELBOW #3-8
CORNER
CONDITION #1



PLUG #62AG-8



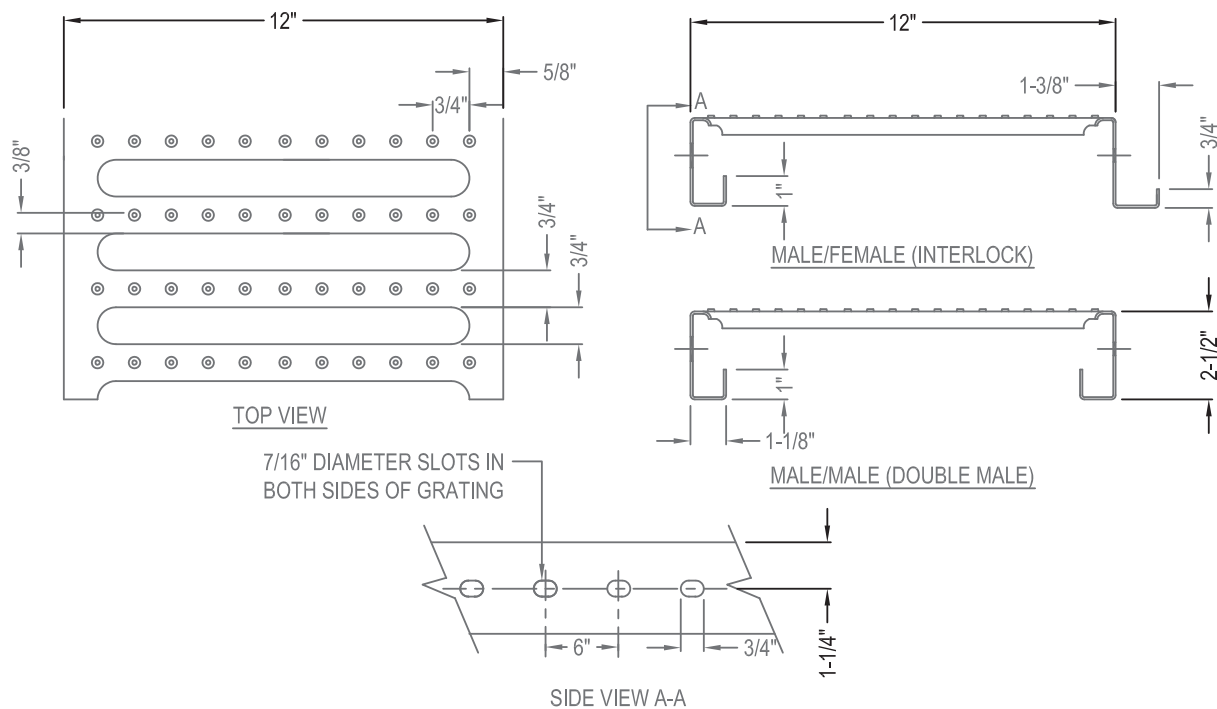
OUTSIDE
CORNER #20-8



SIDE OUTLET
ELBOW #9-8



GRATING SPEC



7/16" DIAMETER SLOTS IN BOTH SIDES OF GRATING

SIDE VIEW A-A

MAXIMUM ALLOWABLE CONCENTRATED LOAD (lbs/sf)

SIMPLY SUPPORTED SPAN				
LENGTH (ft.)	3'-0"	4'-0"	5'-0"	6'-0"
WEIGHT (lbs.)	529*	529	501	420

- (1) LOADS ARE CONTROLLED BY BENDING STRENGTH (DEFLECTION < L/240)
 (2) ALL LOADS ARE TOTAL LOADS (DEAD WEIGHT OF GRATING MUST BE SUBTRACTED TO OBTAIN LIVE LOAD)
 (3) LOAD VALUES CAN BE INCREASED BY AT LEAST 50% WHEN GRATING SECTIONS INTERLOCK TOGETHER
 *LOAD CONTROLLED BY 2" END BEARING STRENGTH (DEFLECTION < L/240)

FASTENER PERFORMANCE DATA

PULLOUT VALUES (average lbs. ultimate)					
FASTENER		STEEL GAUGE			
SIZE	POINT	24	18	14	12
12-14	Teks/3	211	551	1063	1631

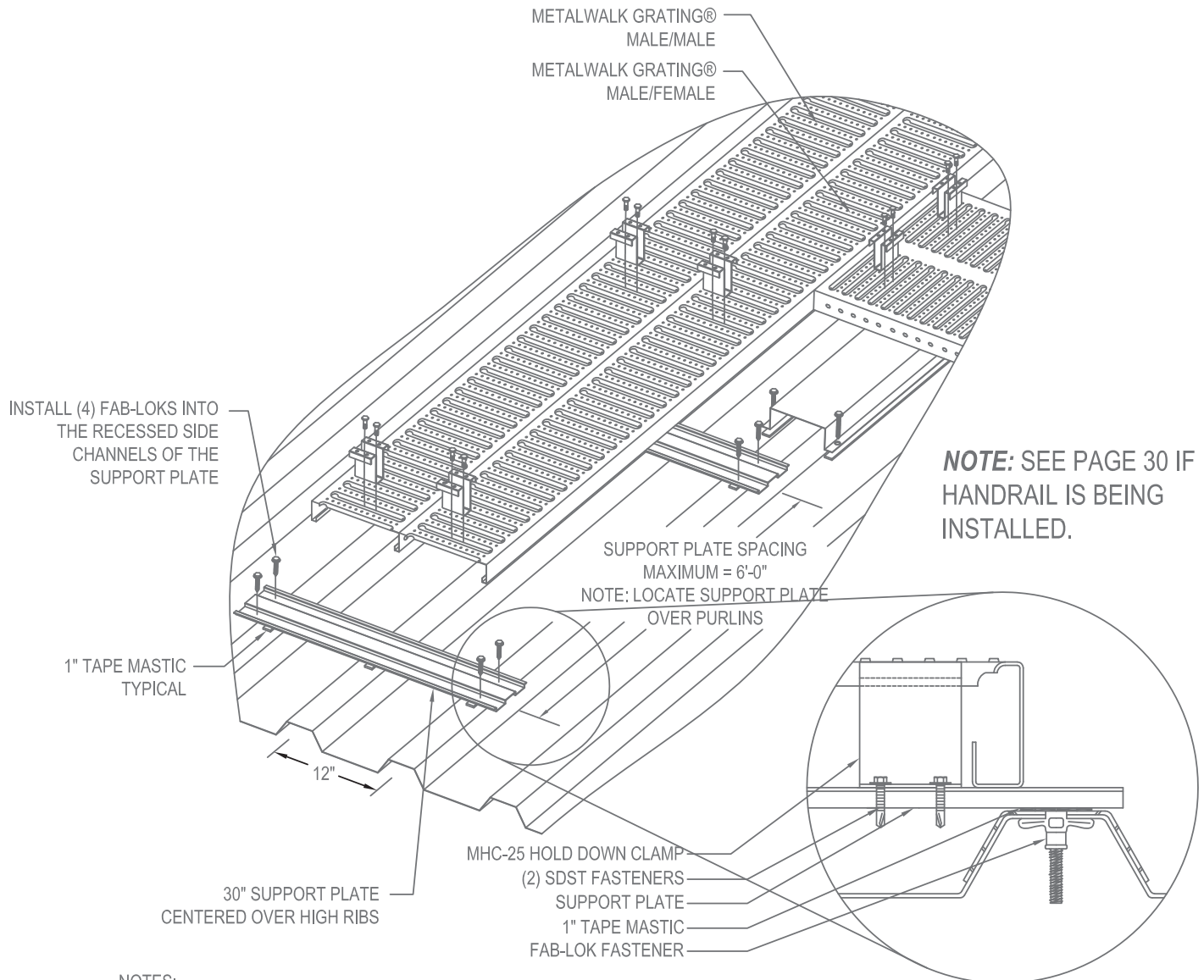
STRENGTH CHARACTERISTICS			
FASTENER		TENSILE	SHEAR
SIZE	POINT	(lbs.min.)	(avg.lbs.ult.)
12-14	Teks/3	2778	2000

NOTES:

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWING.
3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 5018-008.



METALWALK® - RIB PANEL



NOTES:

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5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 5018-029.

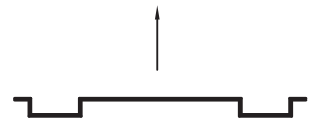


PARALLEL RUNS - SUPPORT PLATE ATTACHMENT

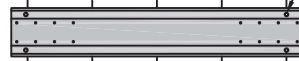
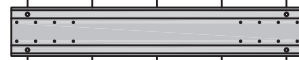
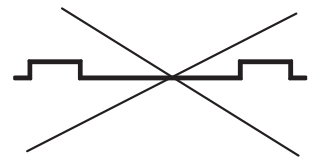
STEP 2 - APPLY MASTIC UNDER ALL SUPPORT PLATES WHERE IT SITS ON THE RIBS.



FIELD DRILL 5/16" DIA. HOLES THRU 1-1/2" AREA WHERE MASTIC IS APPLIED. DRILL THRU SUPPORT PLATE, MASTIC AND PANEL. INSTALL FAB-LOK FASTENER IN DRILLED HOLE PER INSTRUCTIONS.

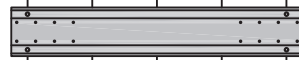
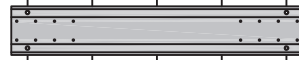


SUPPORT PLATE
NOTE: THIS SIDE UP



FAB-LOK

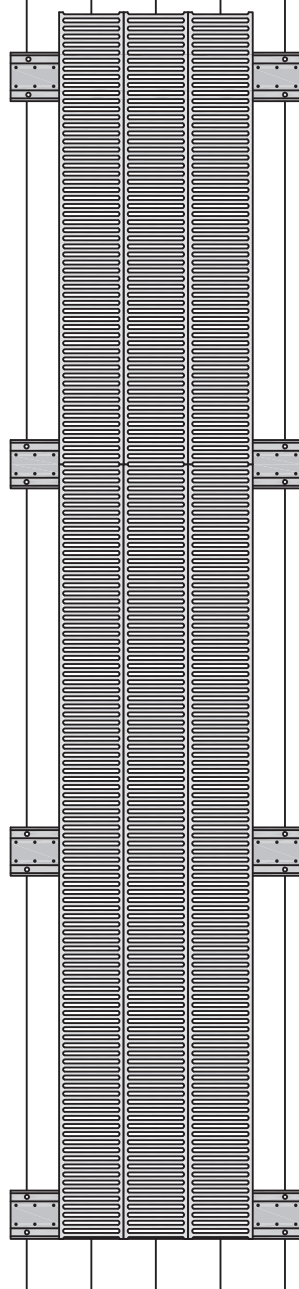
72" MAX. SPACING



12"

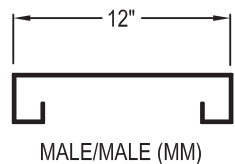
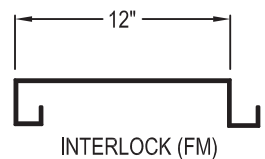
36" WIDE SHOWN FOR EXAMPLE.
CHECK LAYOUT DRAWING FOR PROJECTS WIDTH(S).

PARALLEL RUNS - GRATING PLACEMENT



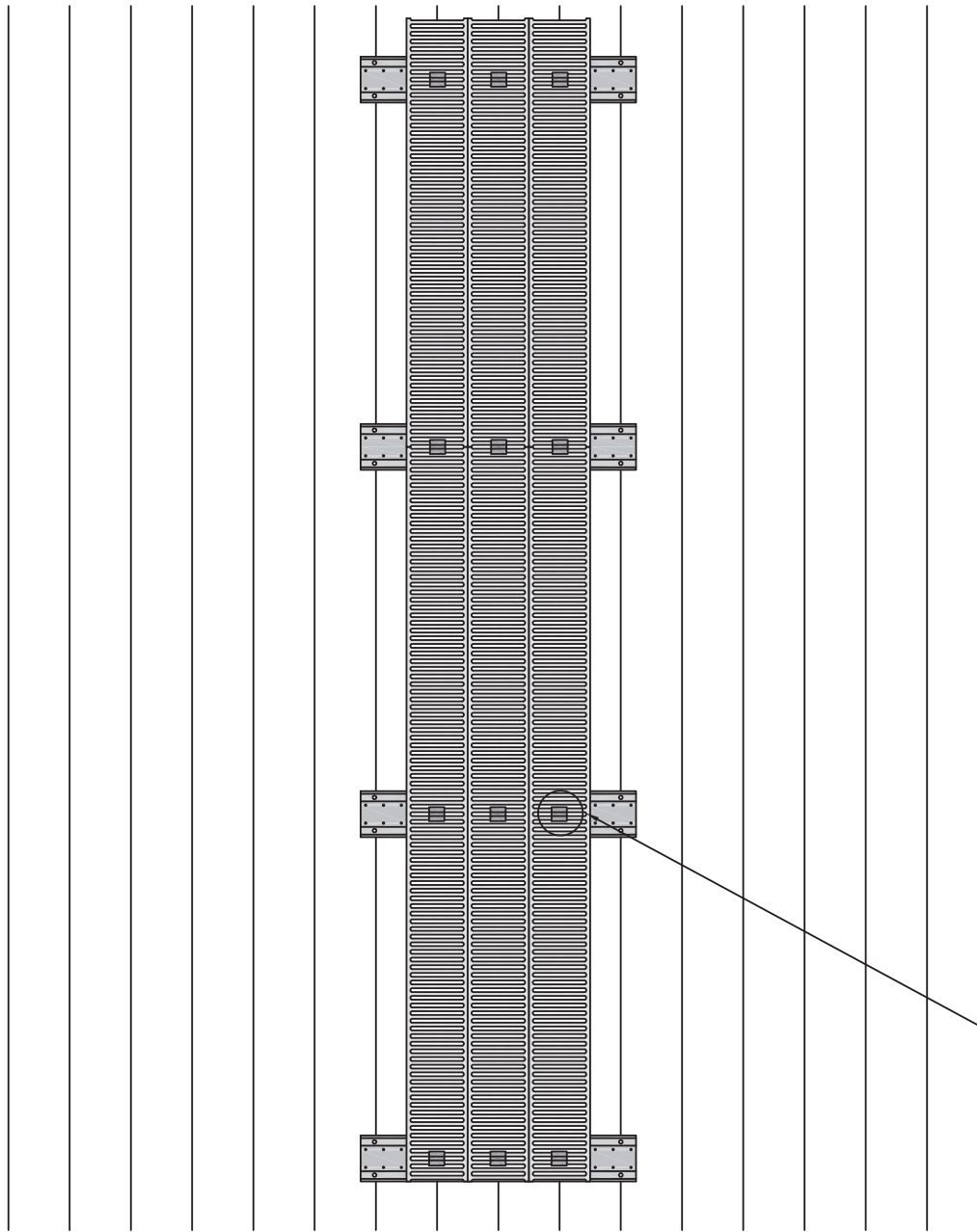
STEP 3 - PLACE GRATING ON SUPPORT PLATES STARTING WITH INTERLOCK PANEL AND ENDING WITH MALE/MALE PLANK (SEE BELOW). GRATING CAN BE SHIFTED LEFT OR RIGHT BASED ON HANDRAIL OR ROOFTOP UNITS.

CAUTION: IF HANDRAIL IS BEING USED, BE SURE THERE IS ADEQUATE ROOM TO INSTALL HANDRAIL BASE.

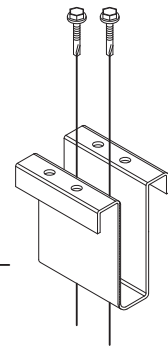


36" WIDE SHOWN FOR EXAMPLE.
CHECK LAYOUT DRAWING FOR PROJECT WIDTH(S).

PARALLEL RUNS - GRATING ATTACHMENT

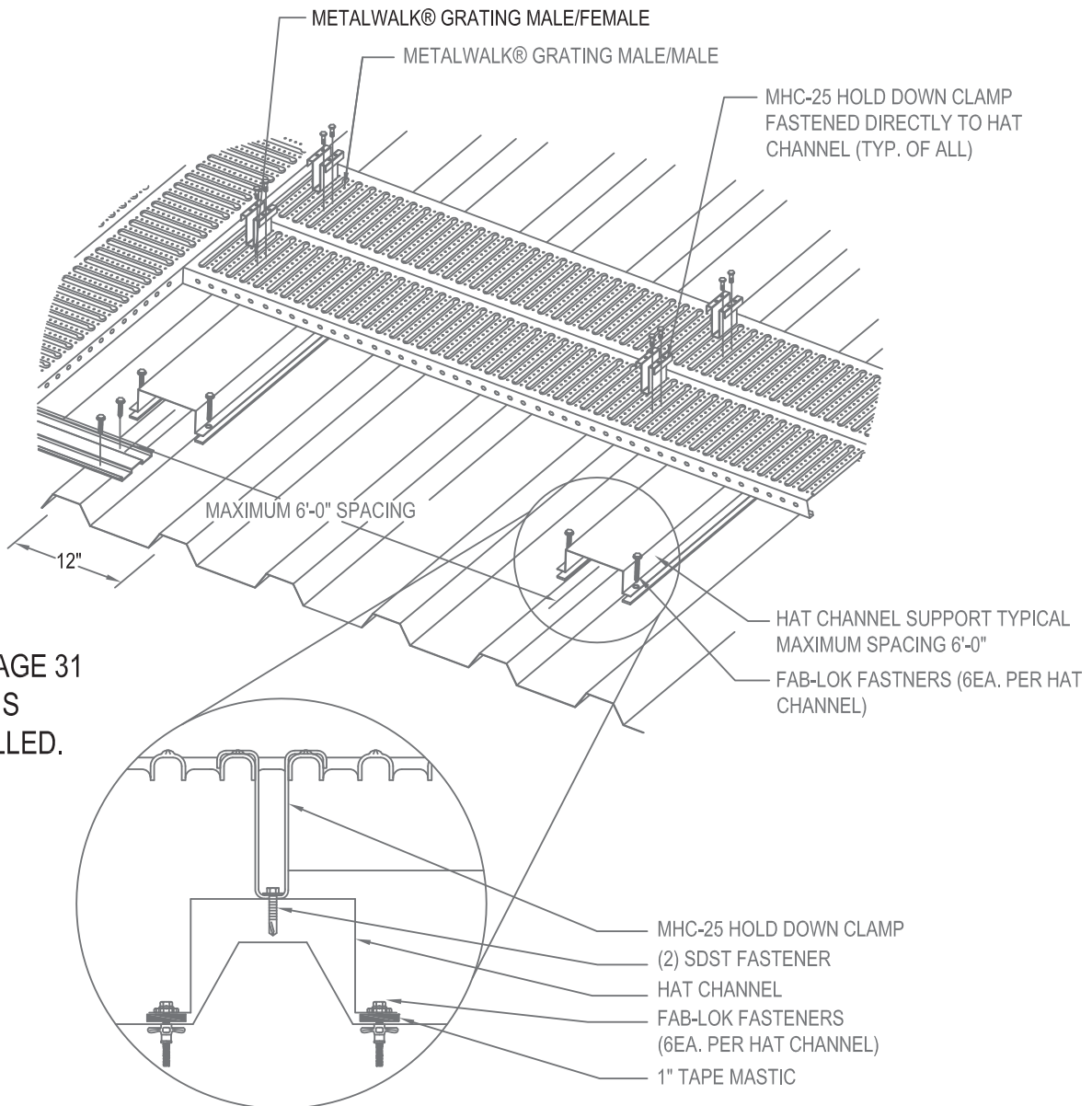


STEP 4 - INSERT 1 EA. MHC25 CLIP (SEE BELOW) IN CENTER OF EACH PLANK AT SUPPORT PLATE LOCATIONS. FASTEN CLAMP TO SUPPORT PLATE USING 2 EA. 12-14X7/8" SDST FASTENER.



MHC25 CLIP

METALWALK® - RIB PANEL



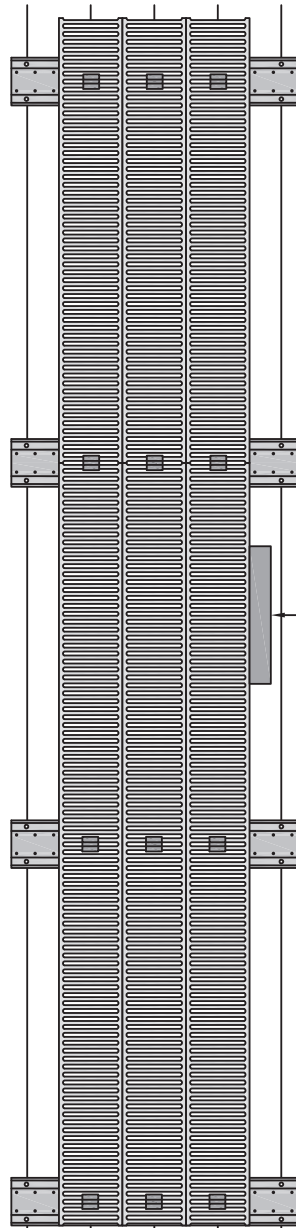
NOTE: SEE PAGE 31
IF HANDRAIL IS
BEING INSTALLED.

NOTES:

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWING.
3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 5018-030.

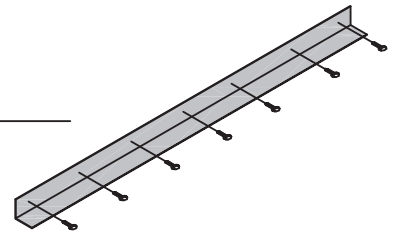


PERPENDICULAR RUNS - LEDGER ANGLE

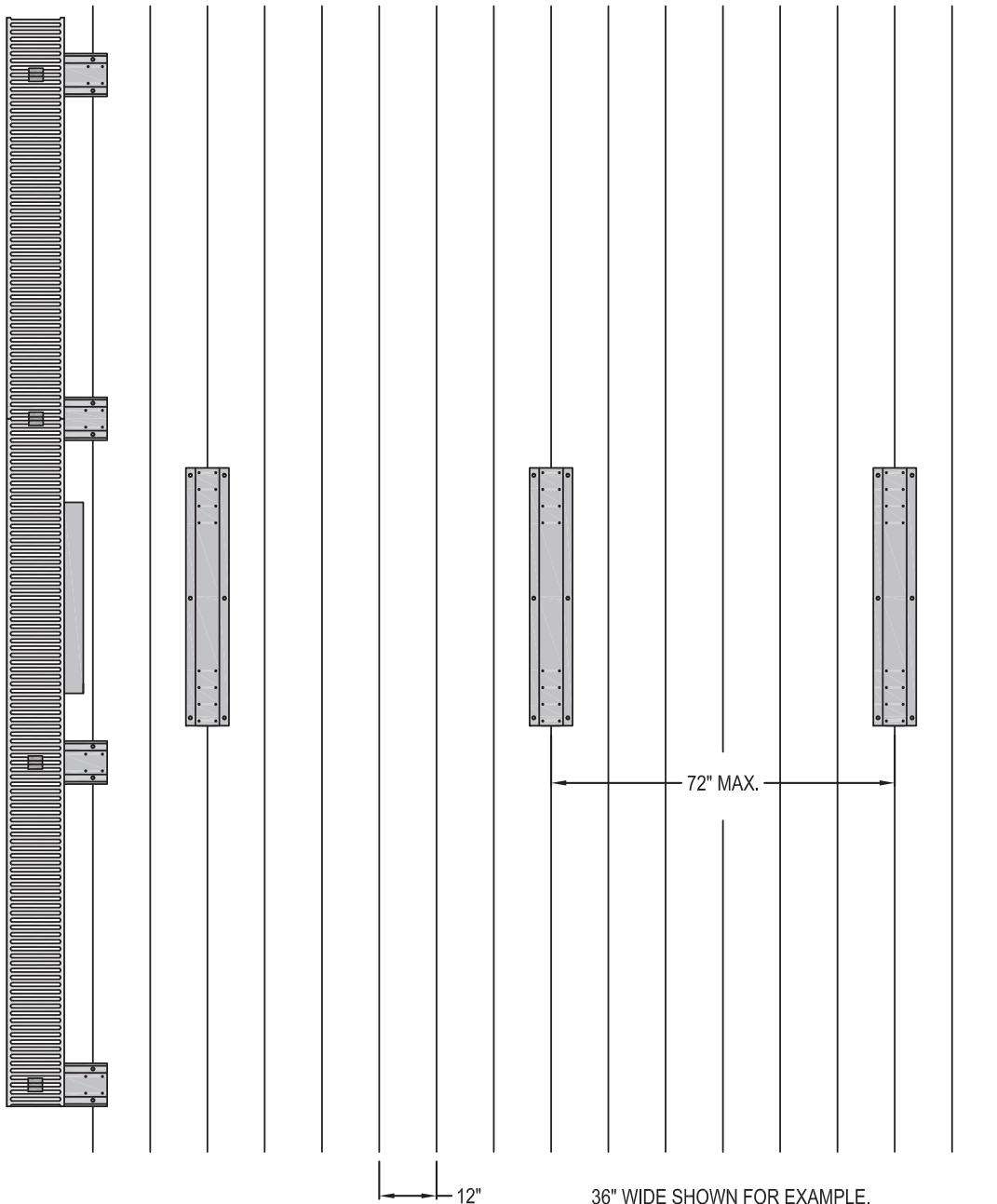


STEP 1 - DETERMINE INTERSECTION OF PERPENDICULAR RUN TO PARALLEL RUN. ATTACH LEDGER ANGLE FLUSH WITH BOTTOM OF GRATING USING 12-14X7/8" SDST FASTENERS. (SEE BELOW)

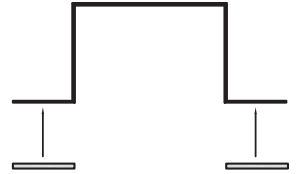
24" WIDE USE 5 EA. FASTENERS
36" WIDE USE 7 EA. FASTENERS
48" WIDE USE 9 EA. FASTENERS



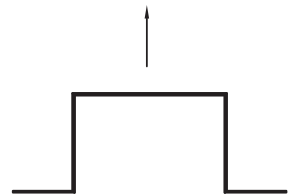
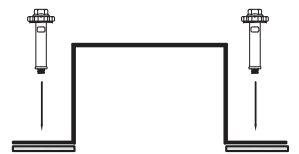
PERP. RUNS - HAT CHANNEL ATTACHMENT



STEP 3 - APPLY MASTIC TO FULL LENGTH OF BOTH BOTTOMS OF HAT CHANNEL (SEE BELOW).



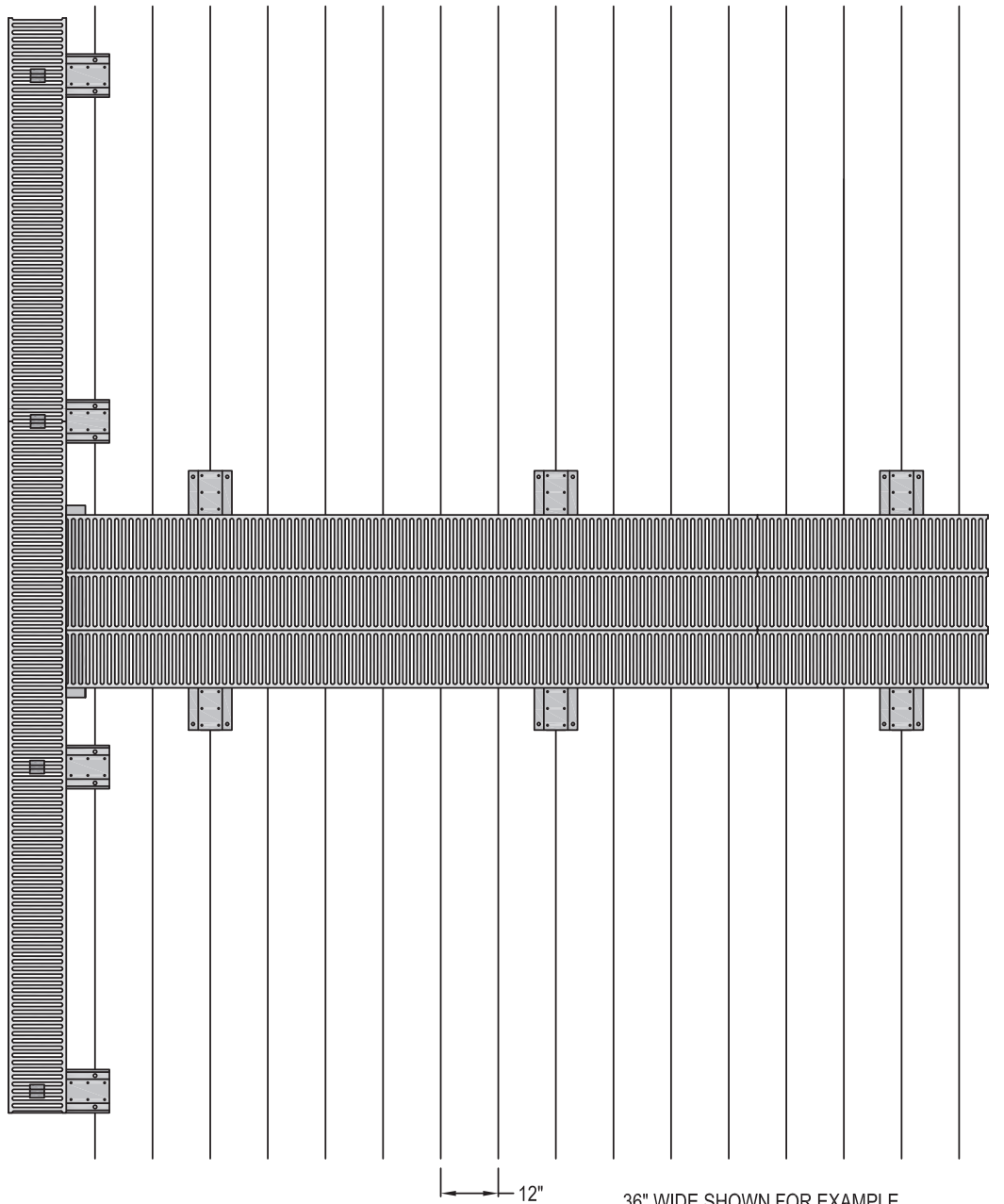
PLACE HAT CHANNELS IN DESIRED LOCATIONS. FIELD DRILL 5/16" HOLES AND INSTALL FAB-LOK FASTENERS (SEE BELOW) ATTACH TO STRUCTURE WHERE POSSIBLE.



HAT CHANNEL
NOTE: THIS SIDE UP

36" WIDE SHOWN FOR EXAMPLE.
CHECK LAYOUT DRAWING FOR PROJECT WIDTH(S).

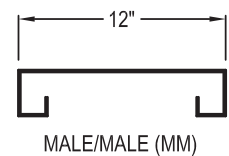
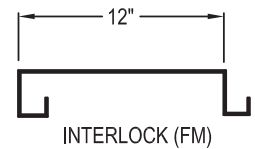
PERP. RUNS - GRATING PLACEMENT



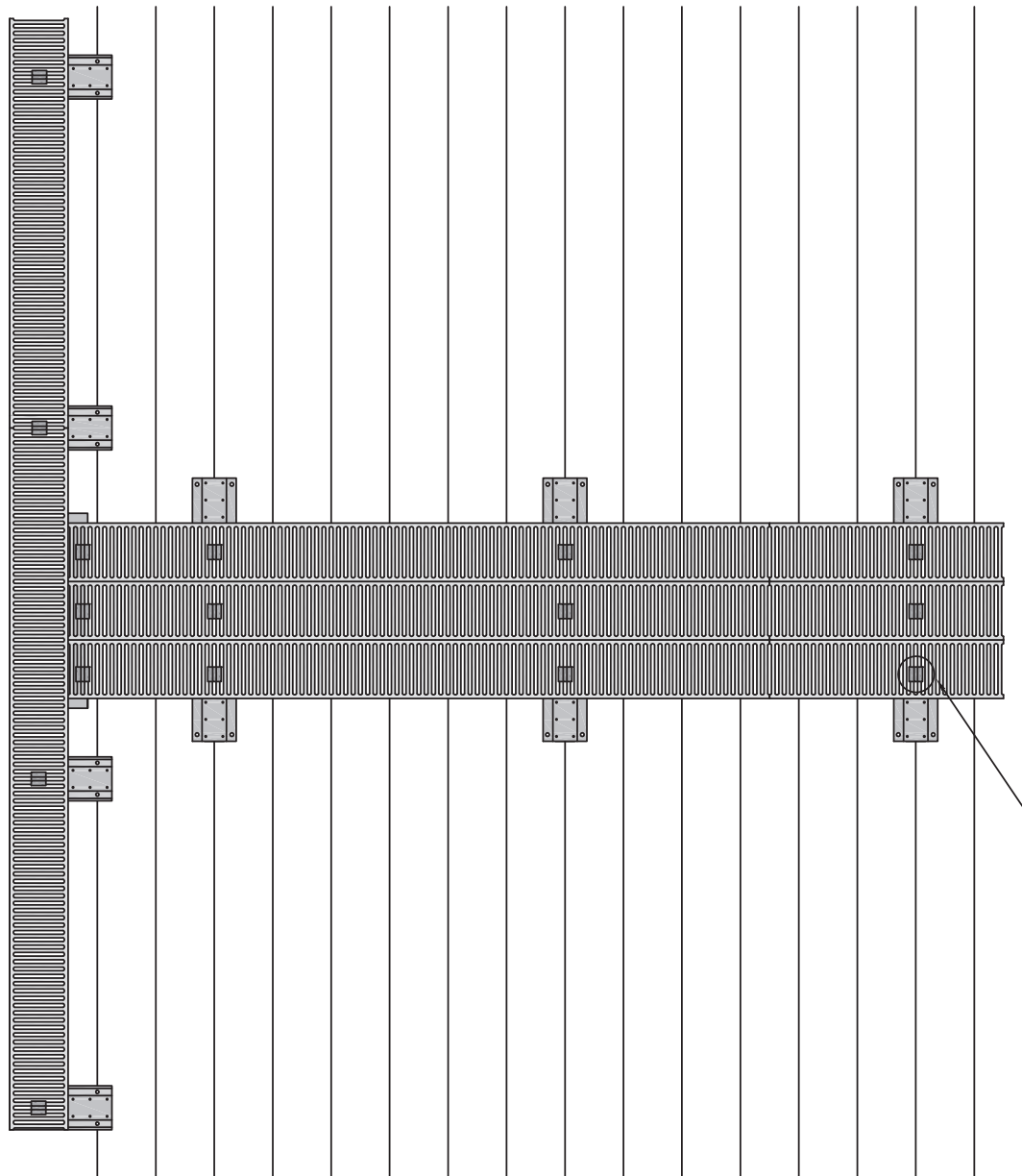
36" WIDE SHOWN FOR EXAMPLE.
CHECK LAYOUT DRAWING FOR PROJECT WIDTH(S).

STEP 4 - PLACE GRATING ON SUPPORT PLATES STARTING WITH INTERLOCK PANEL AND ENDING WITH MALE/MALE PLANK (SEE BELOW). GRATING CAN BE SHIFTED LEFT OR RIGHT BASED ON HANDRAIL OR ROOFTOP UNITS.

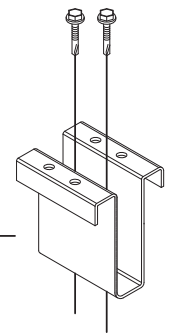
CAUTION: IF HANDRAIL IS BEING USED, INSTALL RAIL BASES BEFORE ATTACHING HAT CHANNEL TO ROOF.



PERP. RUNS - GRATING ATTACHMENT

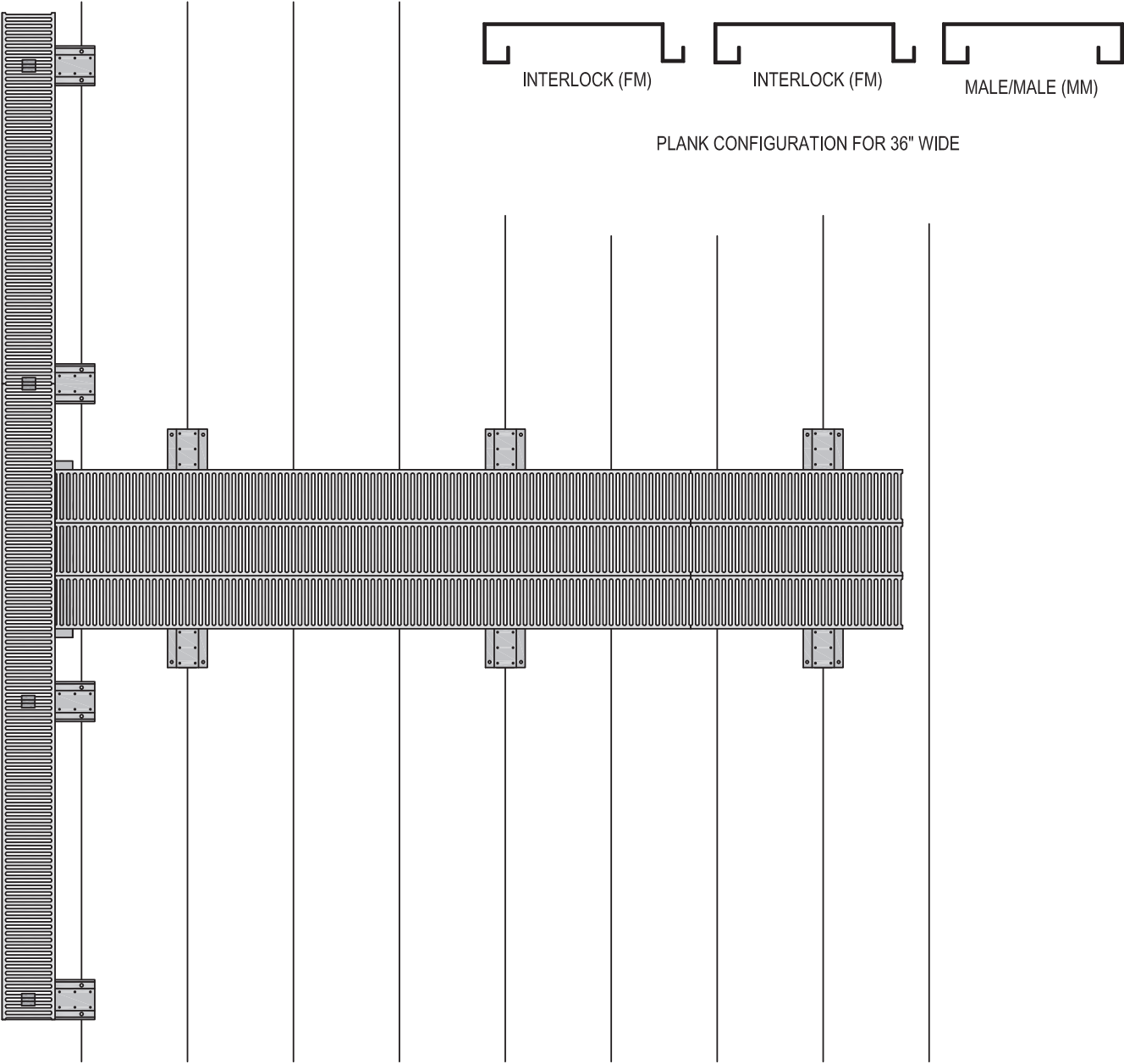


STEP 5 - INSERT 1 EA. MHC25 CLIP (SEE BELOW) IN CENTER OF EACH PLANK AT SUPPORT PLATE LOCATIONS. FASTEN CLAMP TO SUPPORT PLATE USING 2 EA. 12-14X7/8" SDST FASTENER.

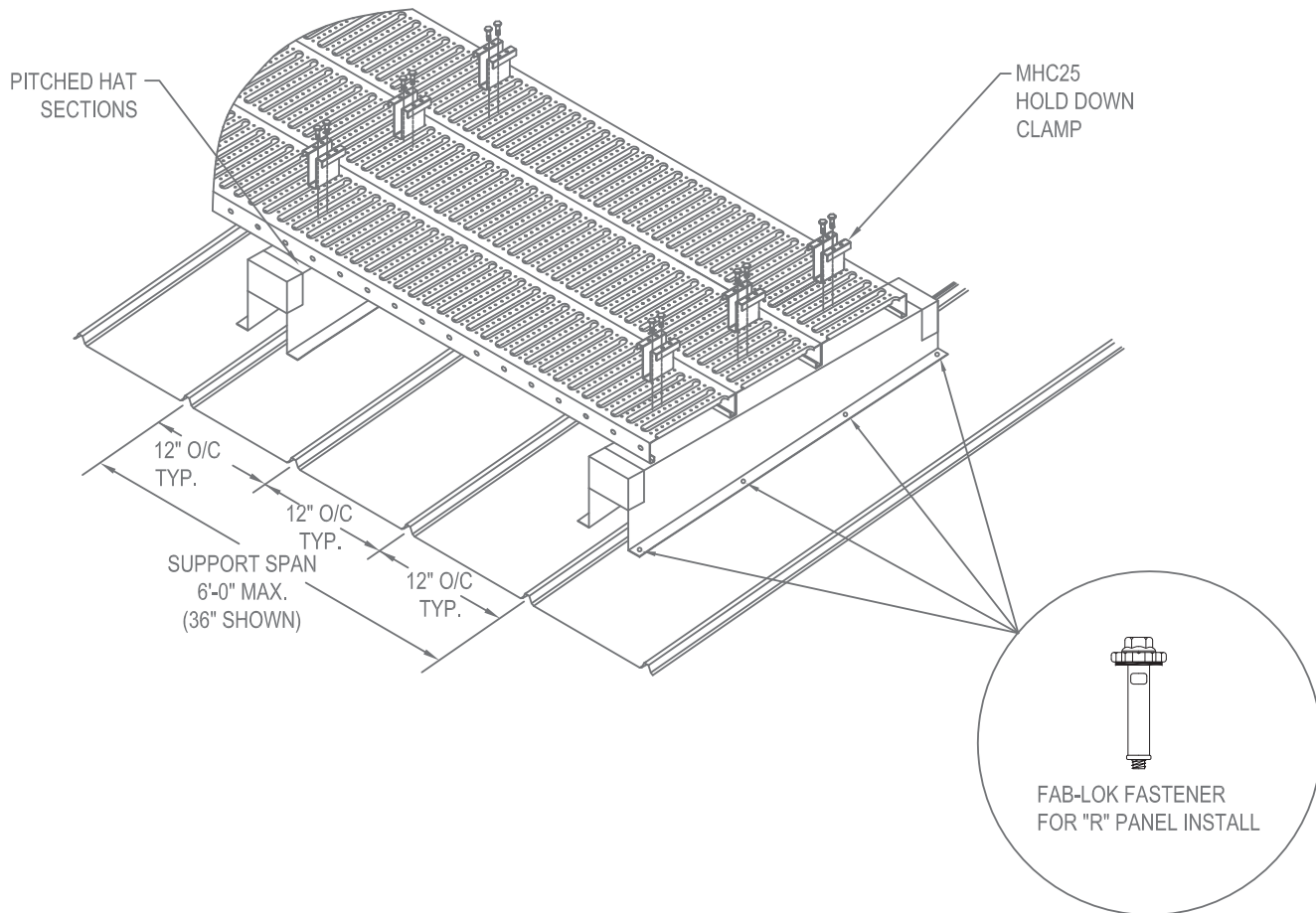


MHC25 CLIP

PERP. RUNS - GRATING PLACEMENT



LEVEL RUNS - NO HANDRAIL

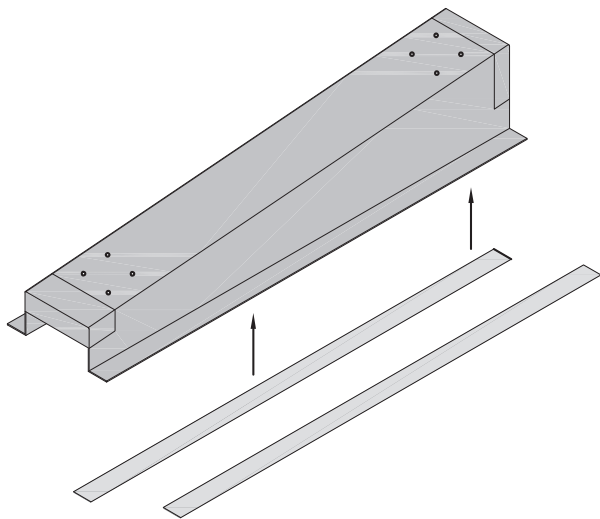


NOTES:

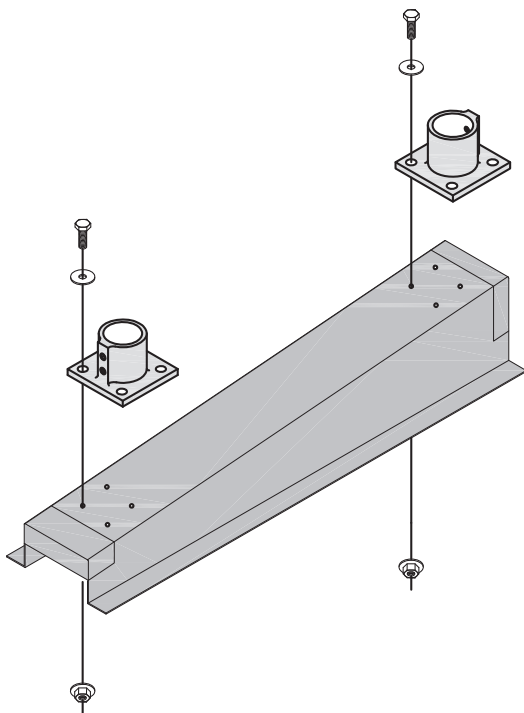
1. ATTACH (4) FAB-LOK FASTENERS TO EACH SIDE OF PITCHED HAT CHANNEL.
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. DO NOT SCALE DRAWING.
4. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
5. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
6. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 5018-034.



LEVEL RUNS - BASE & GASKET ATTACHMENT



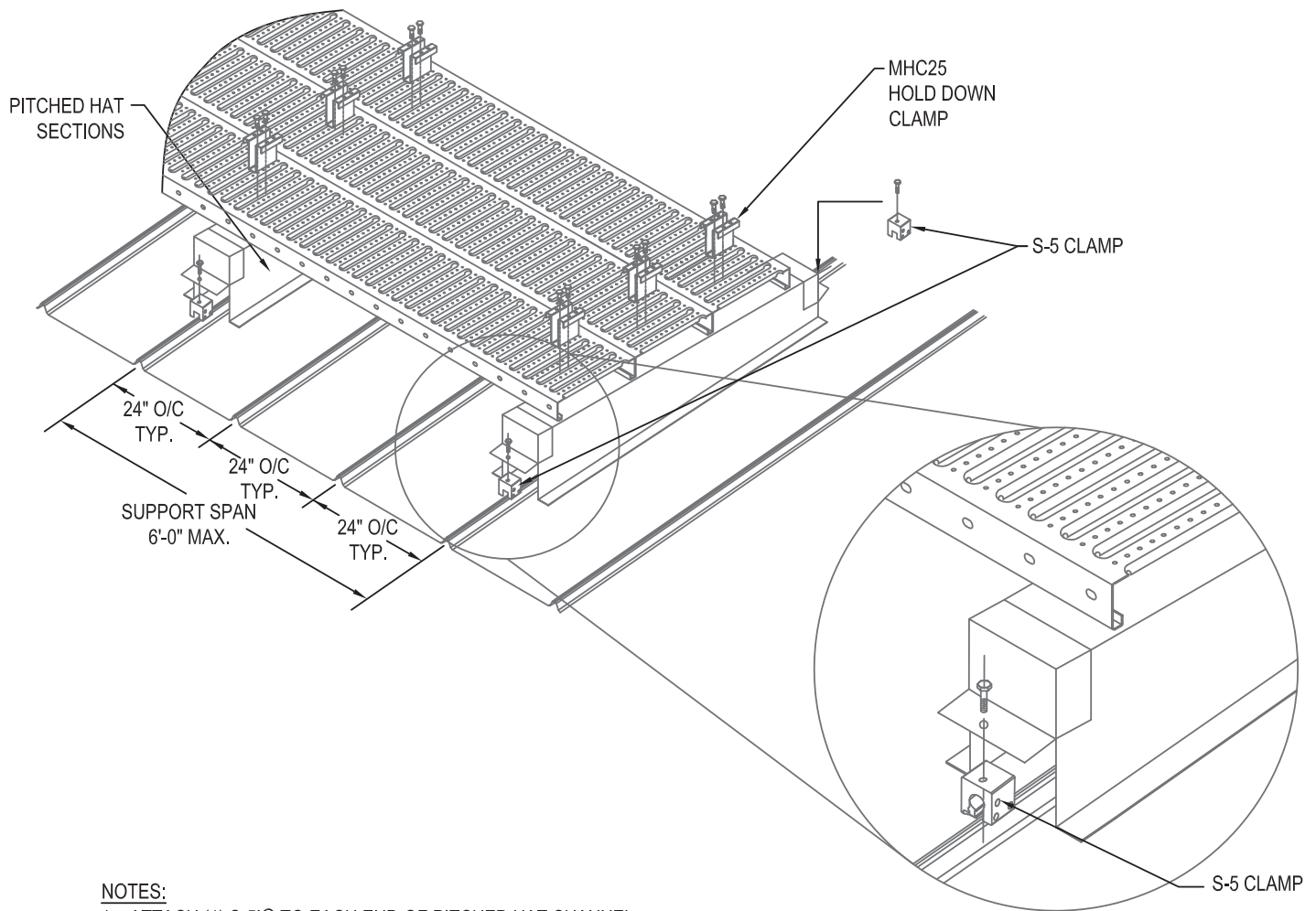
STEP 2 - INSTALL TAPE MASTIC TO BOTTOM OF BOTH LEGS OF THE PITCHED HAT CHANNEL.



STEP 3 - DETERMINE WHICH SIDE HANDRAIL IS TO BE INSTALLED ON. INSTALL RAIL BASE TO PITCHED HAT CHANNEL. USE 4 EA. 5/16" X1" BOLT, 4 EA. 7/8" WASHERS & 4 EA. LOCK NUTS PER RAIL BASE.

NOTE: INSTALL ALL BASES TO PITCHED HATS BEFORE INSTALLING PITCHED HATS TO THE ROOF.

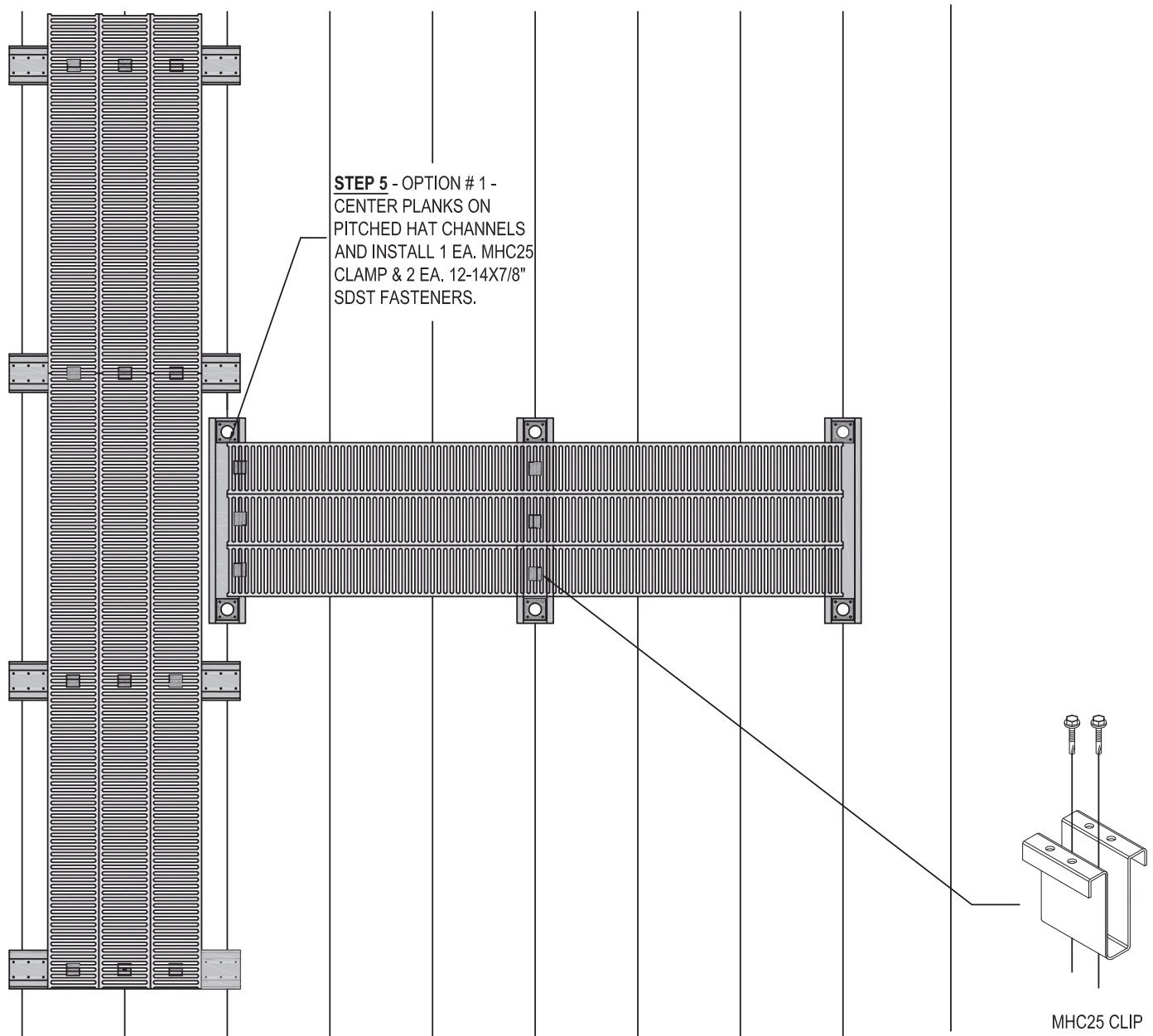
LEVEL RUNS - NO HANDRAIL



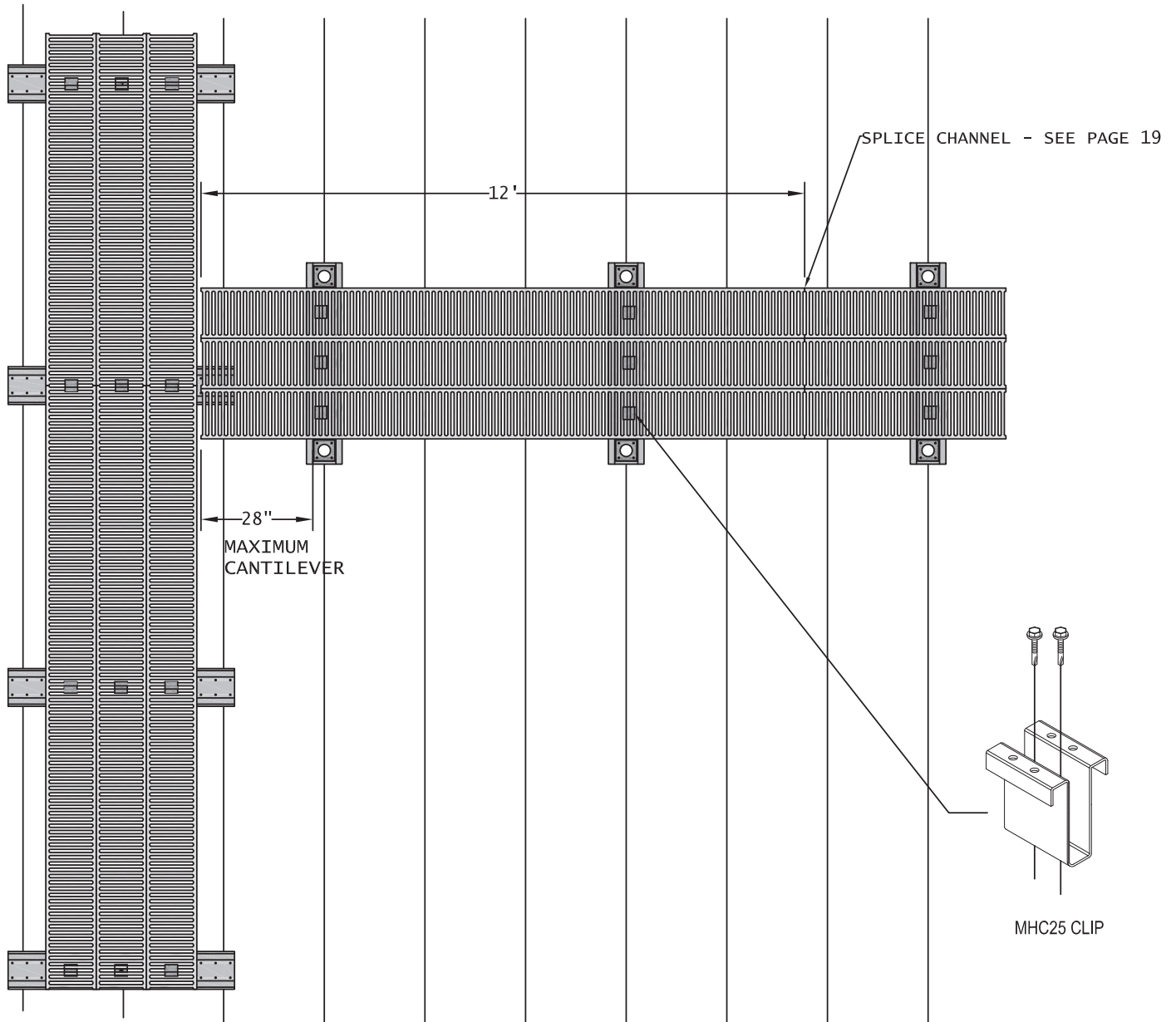
NOTES:

1. ATTACH (1) S-5!@ TO EACH END OF PITCHED HAT CHANNEL.
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. DO NOT SCALE DRAWING.
4. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
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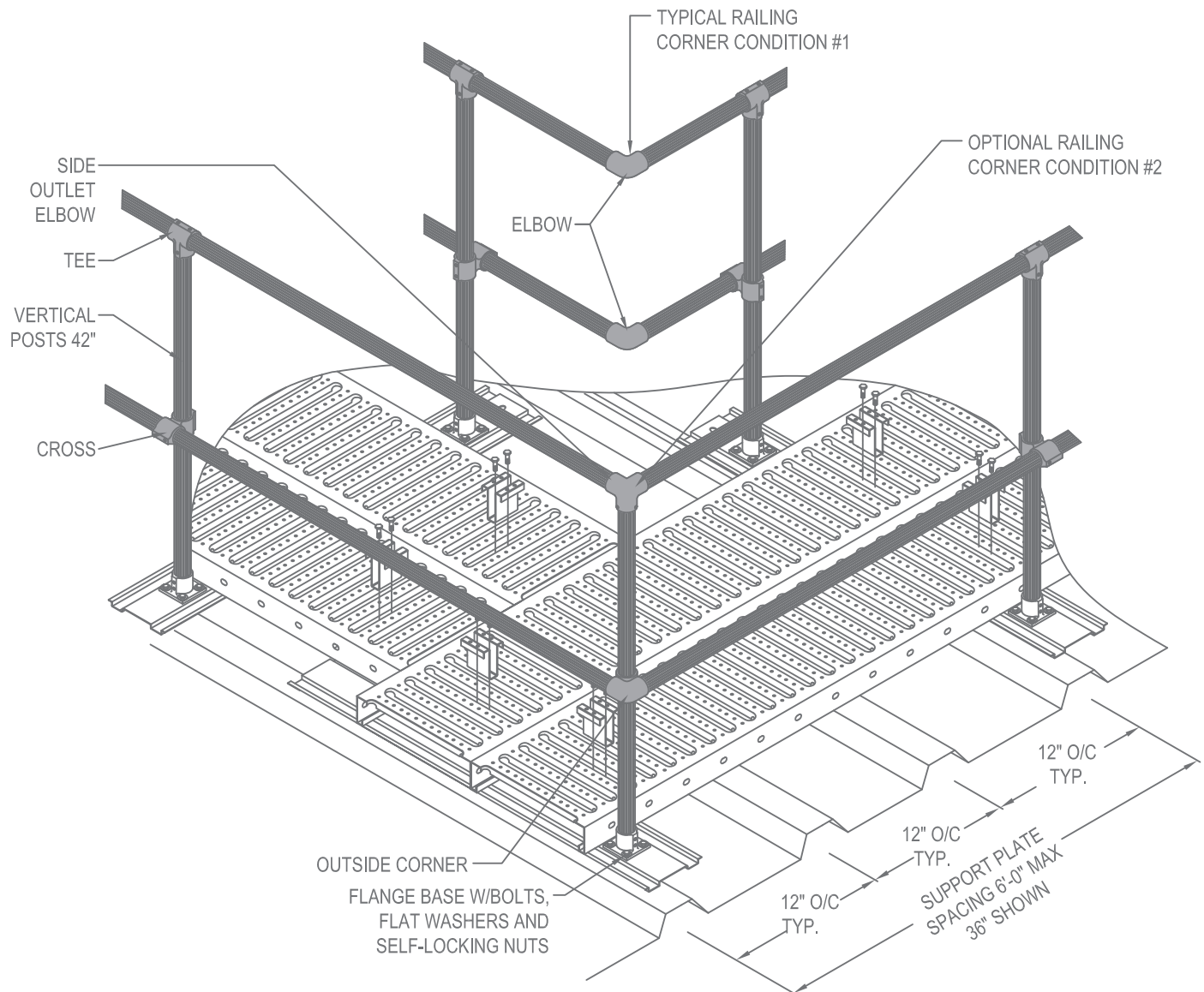
LEVEL RUNS - STARTING POINT OPTION #1



LEVEL RUNS - STARTING POINT OPTION #2



METALWALK® - CORNER CONDITION

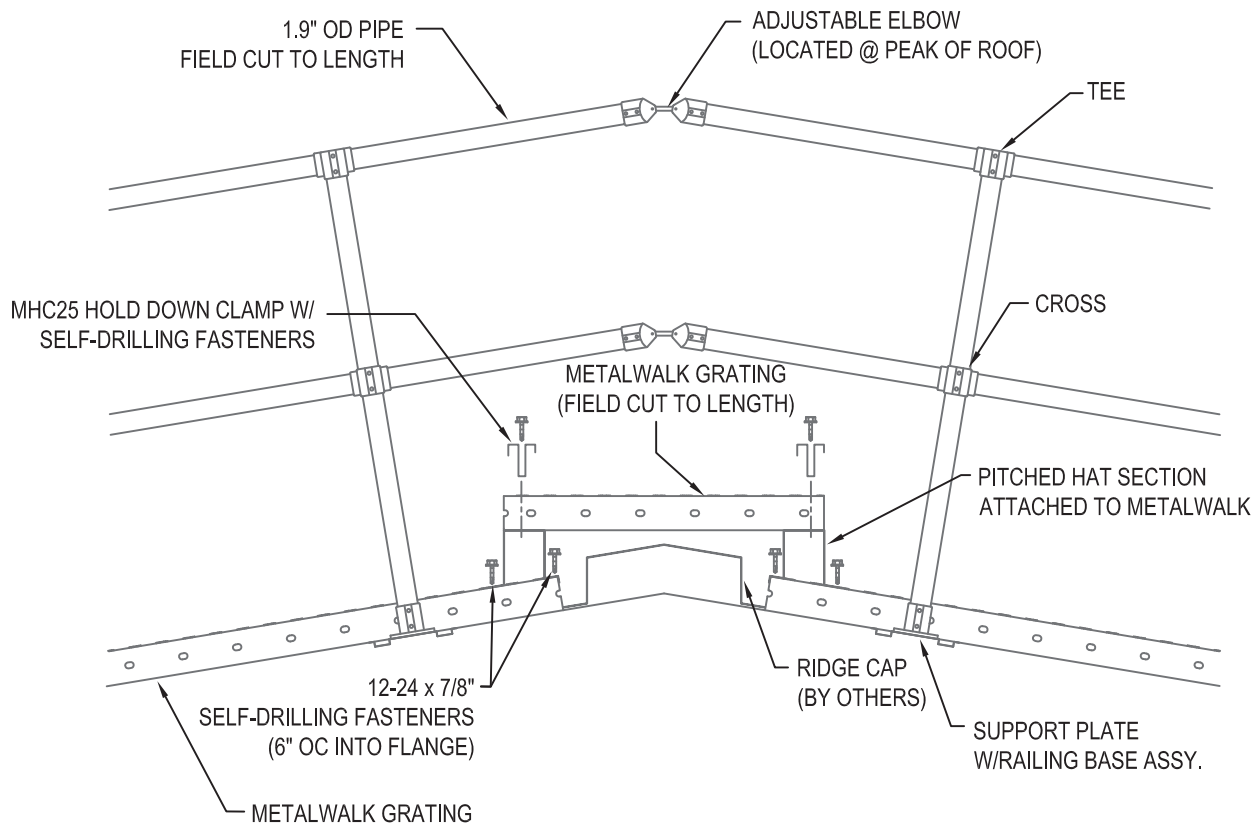


NOTES:

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5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 5018-035.



RIDGE CROSSOVER WITH SAFETY HANDRAIL



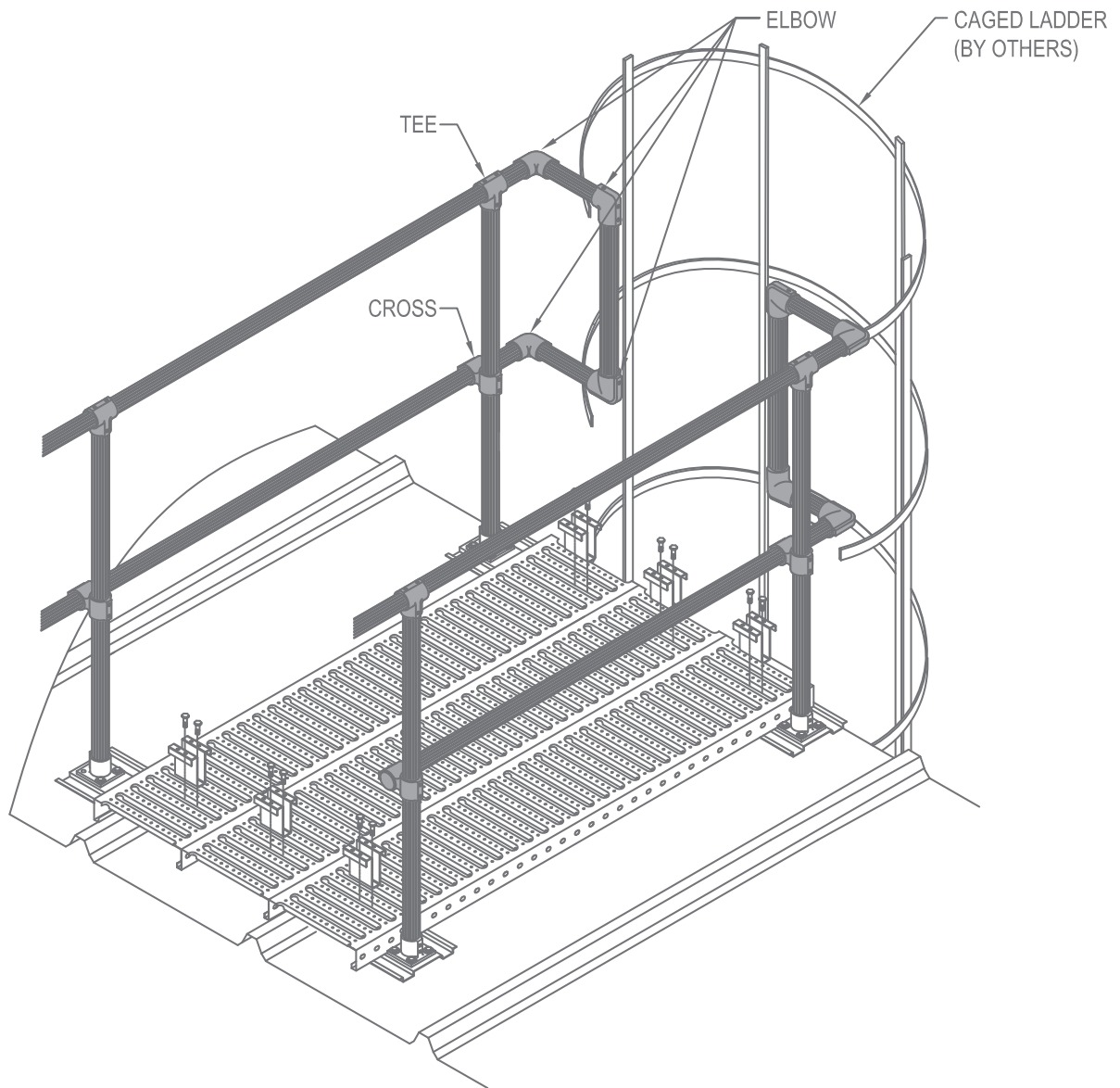
PARALLEL TO PANEL VIEW

NOTES:

1. SPECIAL APPLICATION WITH TRANSITION OVER RIDGE CAP.
2. RIDGE CAP WIDTH & HEIGHT VARIES PER BUILDING SPECIFICATIONS.
3. REFER TO STANDARD INSTALLATION INSTRUCTIONS FOR ATTACHMENT OF METALWALK TO ROOF AND ASSEMBLY OF HANDRAIL COMPONENTS.
4. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
5. DO NOT SCALE DRAWING.
6. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
7. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
8. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 5018-007.



36" WIDE, 2 SIDED HANDRAIL, CAGED LADDER TRANSITION

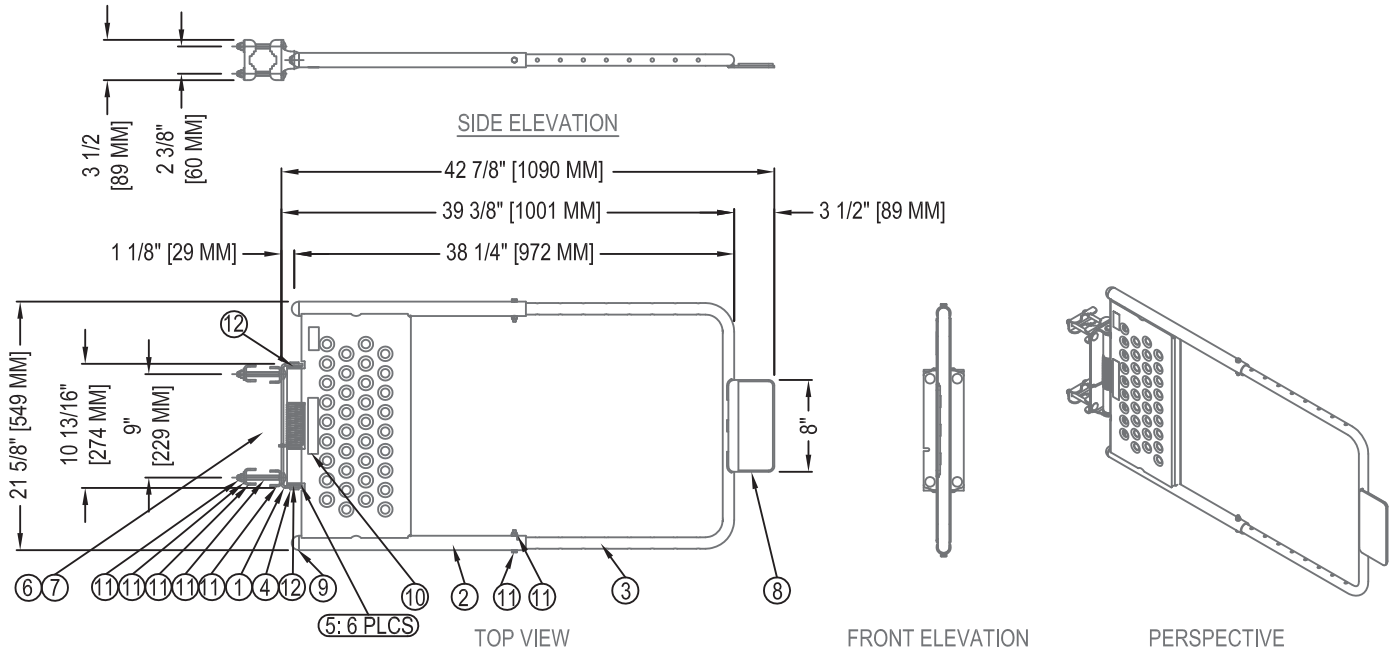


NOTES:

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5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER .



SWING GATE



PARTS LIST					ITEM
ITEM	PART #	DWG	DESCRIPTION		QT
1	D0900066-02	D0900066	SWING GATE MNTING PLATE FORMED		1
2	D0900067	D0900067	SWING GATE PANEL 2440 WELDMENT		1
3	D0900086	D0900086	SWING GATE PANEL TUBE 2440 WELDMENT		1
4	D0900069	D0900069	PIVOT TUBE 3/4 SST PANEL GATE		1
5	D0900077	D0900077	SAFETY GATE PIVOT BUSHING BLACK NYLON		6
6	A-301-0389	B0900027	TORSION SPRING (SST) FOR GATE		1
7	A-301-0365	A0900030	ROUND CAP - DIP MOLDED END-CAP BLACK		1
8	D0900064	D0900064	FOAM PAD FOR PLATE		1
9	A-301-0682		BALL HEAD PLUG 1.250" BLACK REF C-40-U-21 RODON		2
10	D0080091	D0080091	LABEL PLACEMENT FOR SWING GATES		1
11	SU0072	SU0072	SWING GATE MOUNTING HARDWARE KIT		1
12	D0900095	D0900095	WASHER 1.25 OD, 0.766 ID, 0.016 THICK PTFE		2
13	I0900005	I0900005	SWING GATE INSTRUCTIONS		1
14	A-303-0412	A-303-0412	CARTON PAD - 24.5 X 21.5 42ECT B/C FLUTE KR		1
15	A-303-0413	A-303-0413	CARTON 21.75 X 3.5 X 24.75 FOL 42ECT B/C FLUTE KR GL		1

NOTES:

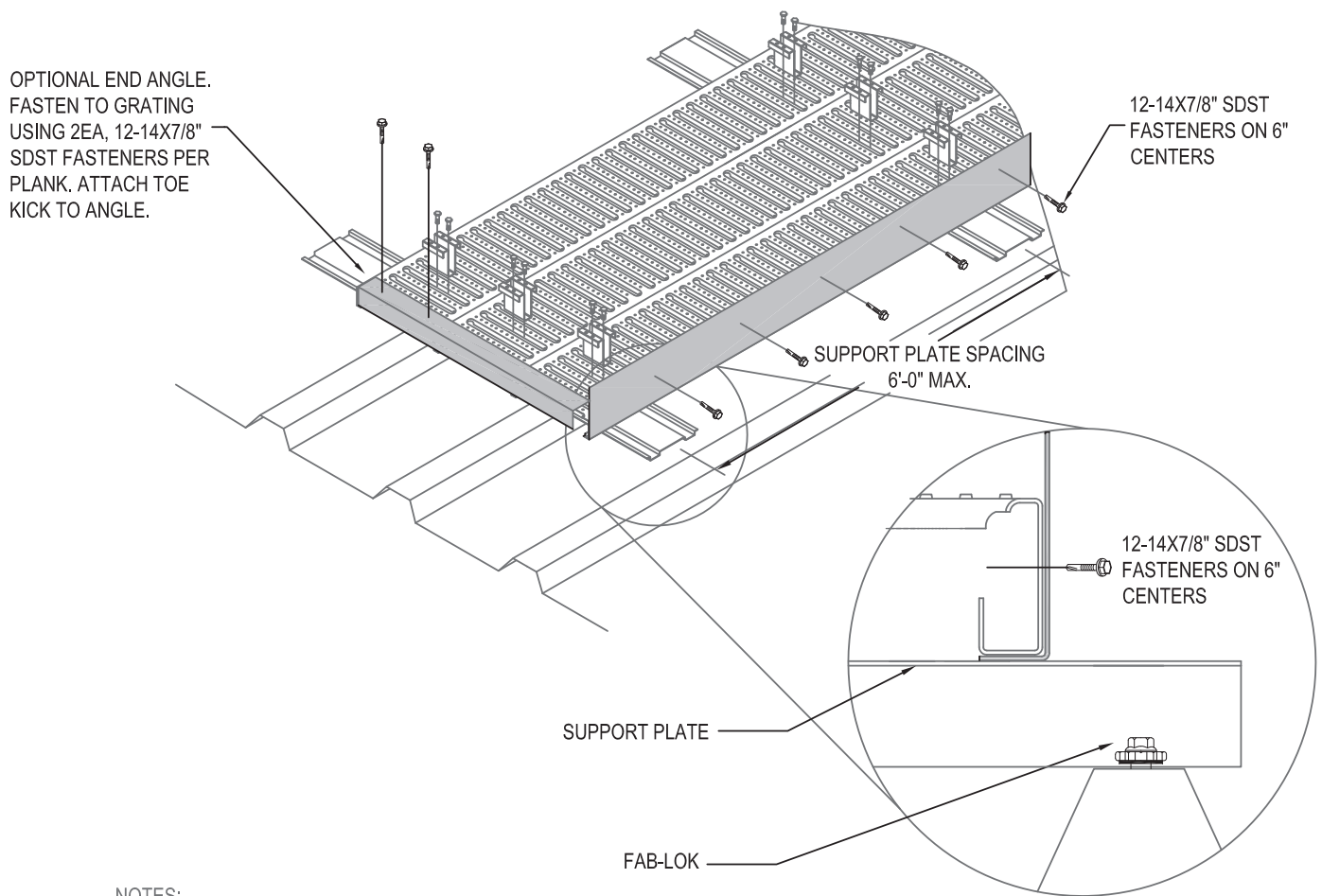
1. ALL POWDER COATED MODELS, ASSEMBLE HARDWARE ITEMS AFTER CURING.
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. DO NOT SCALE DRAWING.
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FEATURES:

- 24" - 40" ADJUSTABLE SELF CLOSING GATE
- STANDARD FINISH "SAFETY YELLOW"
- OTHER FINISHES AVAILABLE UPON REQUEST.



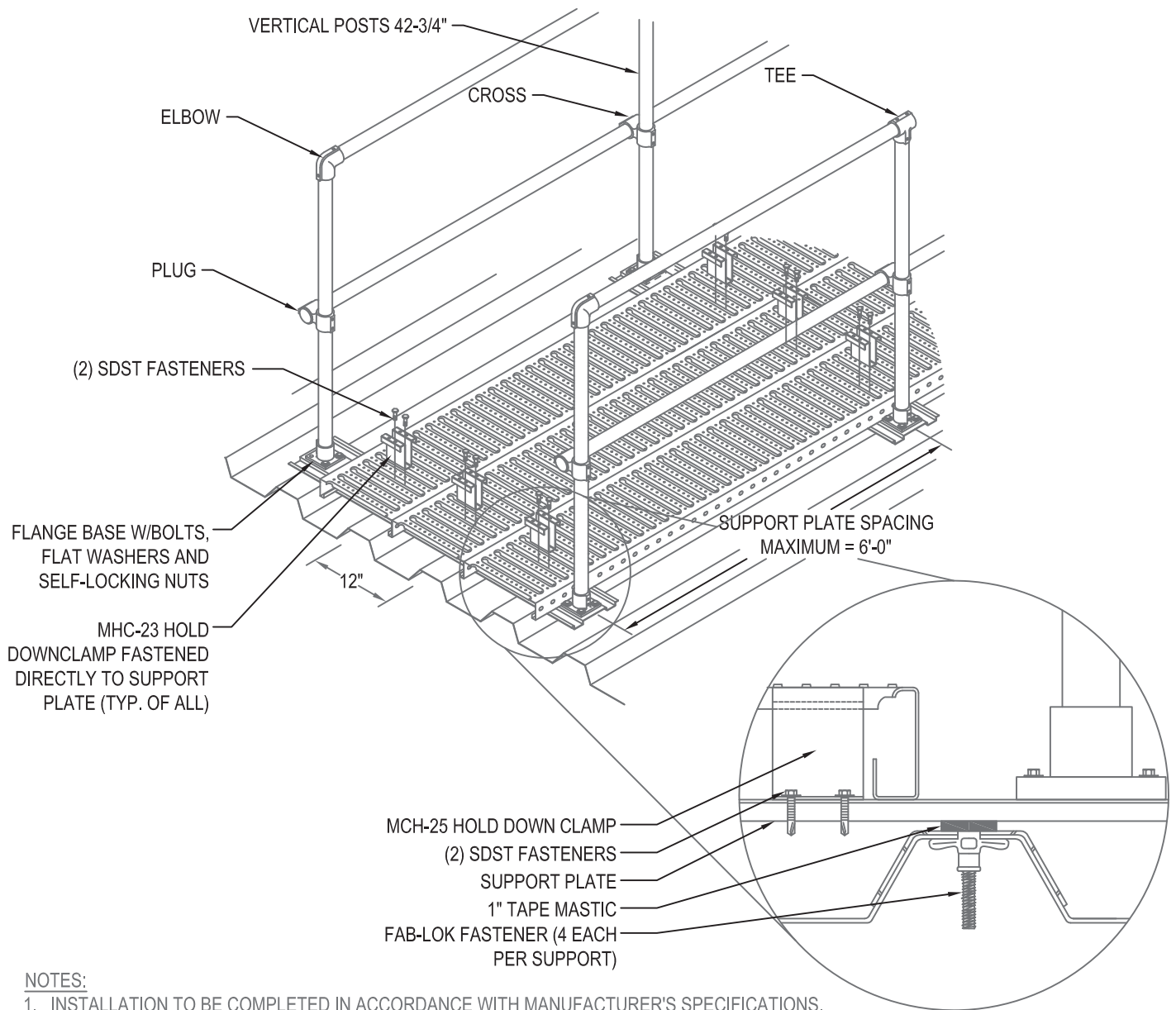
TOE-KICK



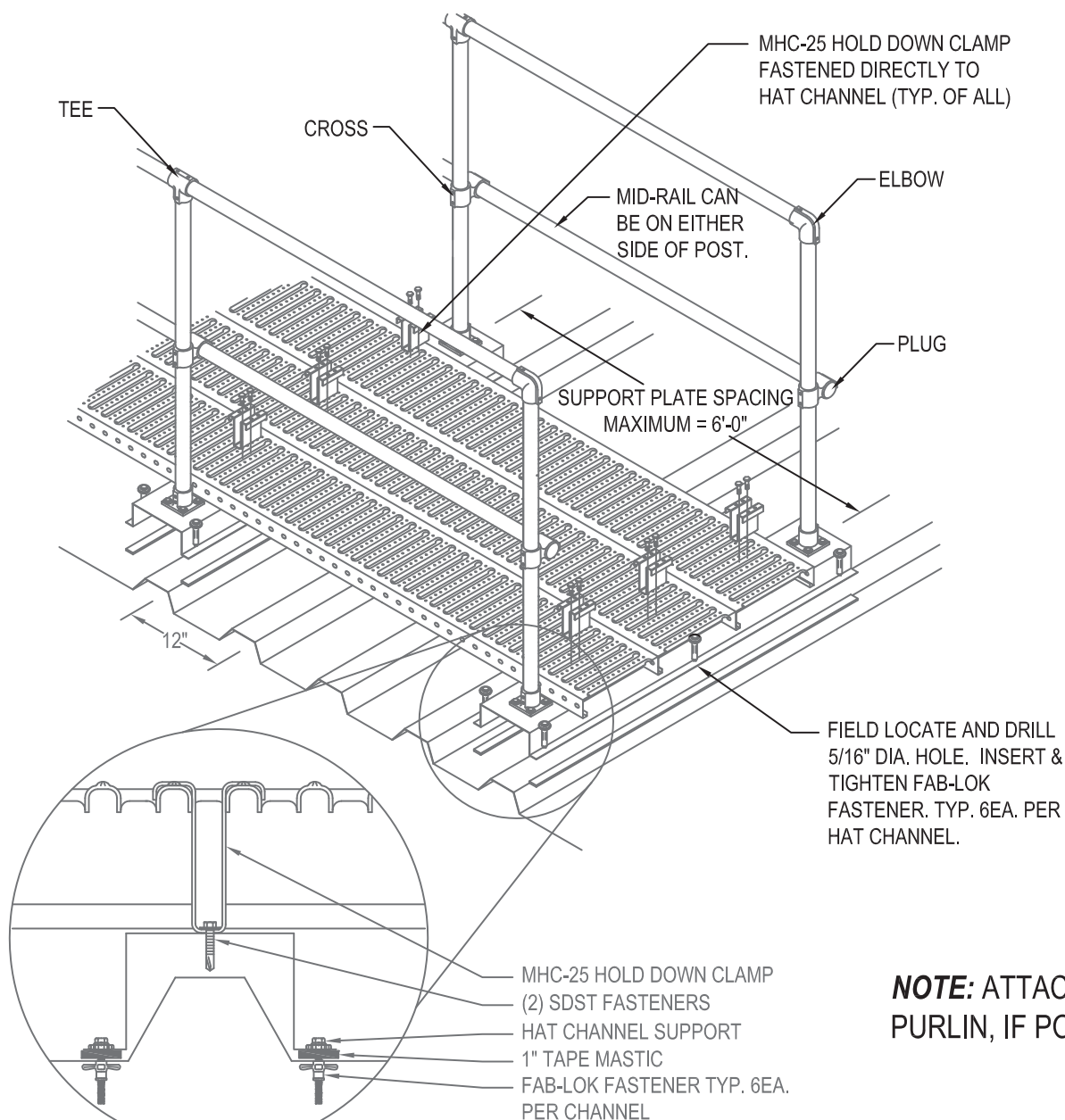
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5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 5018-005.

SUPPORT PLATE W/ FASTENERS (PARALLEL TO PANEL)



RIB PANEL W/ HAT SUPPORT (PERPENDICULAR TO PANEL)



NOTE: ATTACH TO PURLIN, IF POSSIBLE.

NOTES:

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5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 5018-033.

