



DIVERSIFIED FALL PROTECTION, INC.

division of K & D Diversified Products, Inc.

"Get Hooked On Safety"

PGR Installation Manual

409-02

Please Read!

Workers installing or using *PORTABLE GUARD RAIL (PGR-M)*
"Must read and understand all instructions".

**THIS INSTALLATION MANUAL EXPLAINS HOW TO
CORRECTLY USE AND INSTALL PGR-M**

Follow the instructions outlined in this manual.

**FAILURE TO CAREFULLY FOLLOW THESE INSTRUCTIONS
POSES A DIRECT THREAT TO SAFETY OR HEALTH AND
MAY RESULT IN DEATH OR SERIOUS INJURY TO USERS
OF THE PORTABLE GUARD RAIL (PGR-M) AND/OR TO
THIRD PARTIES. MANUFACTURER EXPRESSLY
DISCLAIMS ANY LIABILITY FROM INJURY, DAMAGE, OR
OTHER LOSS RESULTING FROM THE IMPROPER OR
UNAUTHORIZED INSTALLATION OR USE OF THE PGR-M.**

**Assemble and use PGR-M as specified in the instructions
manual to meet OSHA compliance regulations, as stated,
under Standards -29 CFR, 1910.23 & Standards - 29 CFR,
1926.502,**

PORTABLE GUARD RAIL™
United States Registered Trademark Pending

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PGR-M Guard Rail

READ BEFORE YOU START INSTALLING

- ❖ Verify the surface PGR-M will be installed onto is capable of supporting the product and personnel installing it. A complete assessment of the entire surrounding areas should be made to determine if the walking and working surfaces have the strength and structural integrity to support users safely.
- ❖ ONLY install PGR-M on flat dry clean surfaces under conditions where adequate illumination is provided.
- ❖ Never install or use PGR-M on top of gravel, metal or on slippery surfaces.
- ❖ Never erect PGR-M near electrical wires, keep a minimum of ten (10) feet from power lines.
- ❖ EXTREMELY IMPORTANT, each rectangular BASE PLATE must be installed in the correct orientation. Install the BASE PLATE with the long side perpendicular or 90 degrees to the guard railings.
- ❖ PGR-M BASES have non-skid pads on the bottom. If a non-skid pad is missing do not use until one is installed. Contact your distributor at once.
- ❖ Refer to pages 8-9 for “Correct Installation Configurations” and to page 14 for “Incorrect Installation Configurations”.
- ❖ Refer to pages 11 - 12 for “PGR-M Field Modified Installation Configurations”.
- ❖ Position BASE PLATES bases at least 24” from an unprotected edge.
- ❖ IMPORTANT ALWAYS use Outriggers at both ends of any interruption in continuous rail section and at both ends of a continuous rail section. An Outrigger is either a M6, M8 or M10 guard railing installed at a 90 degree angle to a continuous run with a BASE PLATE connected to it.
- ❖ Refer to page 6 for definition of an Outrigger and pages 8 – 11 for illustrations of system installation requirements.

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- ❖ The PGR-M system is designed to meet all OSHA regulations.
- ❖ **DO NOT LEAN on any portion of the PGR-M at any time.**
- ❖ **DO NOT Hoist or tie off of any other equipment or persons to PGR-M.**
- ❖ Routine inspection of all parts is recommended. If damaged parts are found, replace with new parts. **Contact your distributor immediately to replace with new parts.**
- ❖ Installing the PGR-M requires careful attention and should not be performed by persons whose ability or alertness is impaired by fatigue, intoxicating beverages, illegal or prescription drugs, or any other physical cause that exposes the installer, the user or others to injury.
- ❖ All applications of the PGR-M should be verified and approved by competent, trained safety personnel.
- ❖ If it is necessary to remove PGR-M during a portion of a particular job, make sure to re-secure the unit before resuming work.
- ❖ If PGR-M is impacted, loosen all screws on the BASE PLATE fittings. Realign the guard railings and BASE PLATES, and then secure all set screws. If damaged parts are found, replace with new ones.

DEFINITIONS

BASE PLATE: Supporting base for guardrail. Refer to page 15.

CONTINUOUS RUN: A single or series of PGR-M modular guardrail sections installed in a continuous, without interruption, straight line.

OUTRIGGER: Either a 6 foot, 8 foot or 10 foot long guard railing installed at a 90 degree angle to a continuous run with a BASE PLATE connected to it.

TOEBOARD: A low protective barrier that will prevent the fall of materials and equipment to lower levels.

GUARDRAIL: A barrier secured to uprights and erected along the exposed sides and ends of platforms to prevent falls of persons.

LEADING EDGE: The edge of a floor, roof, or formwork for a floor or other walking / working surface (such as the deck) which changes location as additional floor, roof or deck, or formwork sections are placed or constructed. A leading edge is considered to be an unprotected side and edge.

UNPROTECTED SIDE AND EDGE: Any side or edge (except at entrance points of access) of a walking / working surface, e.g. floor, roof, ramp, or runway where there is no wall or guardrail system.

COMPETENT PERSON: Defined by 29 CFR 1926.32 (f) as someone "... who is capable of identifying existing and predicable hazards in the surroundings or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate them."

QUALIFIED PERSON: Defined by 29 CFR 1926.32 (m) as someone "... who, by possession of a recognized degree, certificate, or professional standing, or who by extensive knowledge, training, and experience, has successfully demonstrated his ability to solve or resolve problems relating to the subject matter, work, or the project."

PGR-M PARTS LIST

BP2Y5 - BASE PLATE - A rectangular flat base, containing two fittings. The fittings are designed to accept guardrail sections, PGR-M6, PGR-M8, or PGR-M10. Standard color of BASE PLATE is safety yellow. Other colors available upon request.

PGR-M6, PGR-M8, or PGR-M10 - Modular guard rails which are 6 feet, 8 feet and 10 feet long. Each Guardrail section is 42” tall with a mid rail 21” high. Standard color of the guardrails is safety yellow - other colors available upon request.

CT1912 - Optional Instruction Tube shipped loose which attaches to a PGR mid-rail. In the tube are Installation Instructions and one Allen Wrench tightening tool. Standard color of the tube is safety yellow - other colors available upon request.

TB-6/8/10L, TB-6/8/10M, TB-6/8/10M2, or TB-6/8/1R – Metal ToeBoards with Assembly Fittings – Type TB is only required when it is possible objects could fall from the work area to a lower level (Refer to “ToeBoard Accessory” Section beginning on page 25 for further information on where to use).

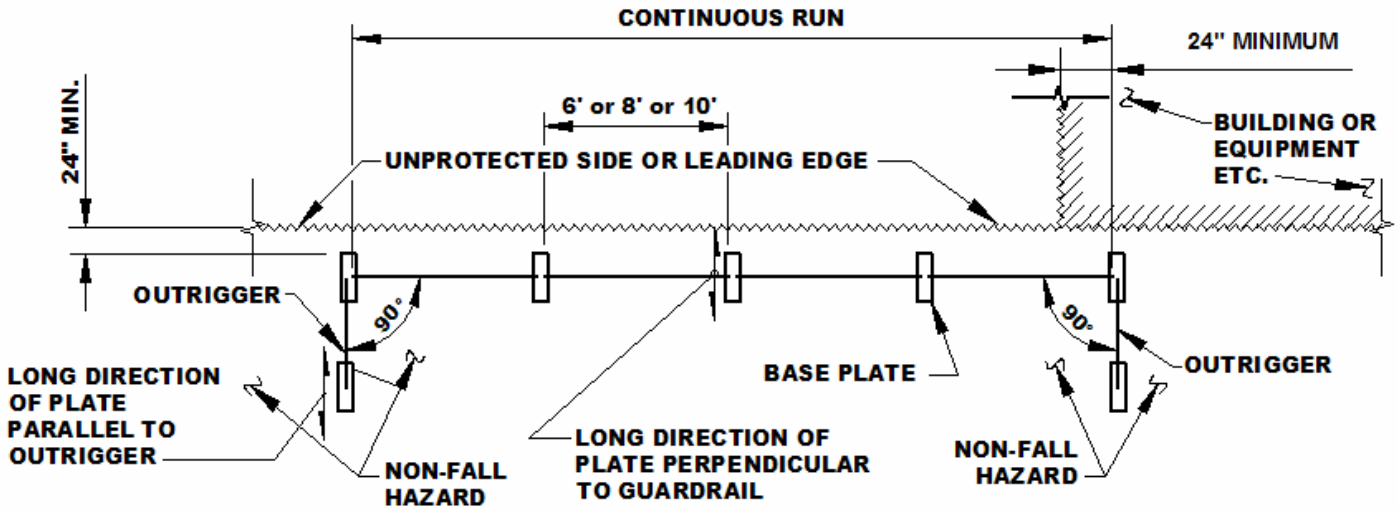
SPF166 – Splice Fitting – Fitting used to create custom length PGR.

TBSP4 – Splice Plate – Splice Plate used to create custom length PGR TOEBOARD.

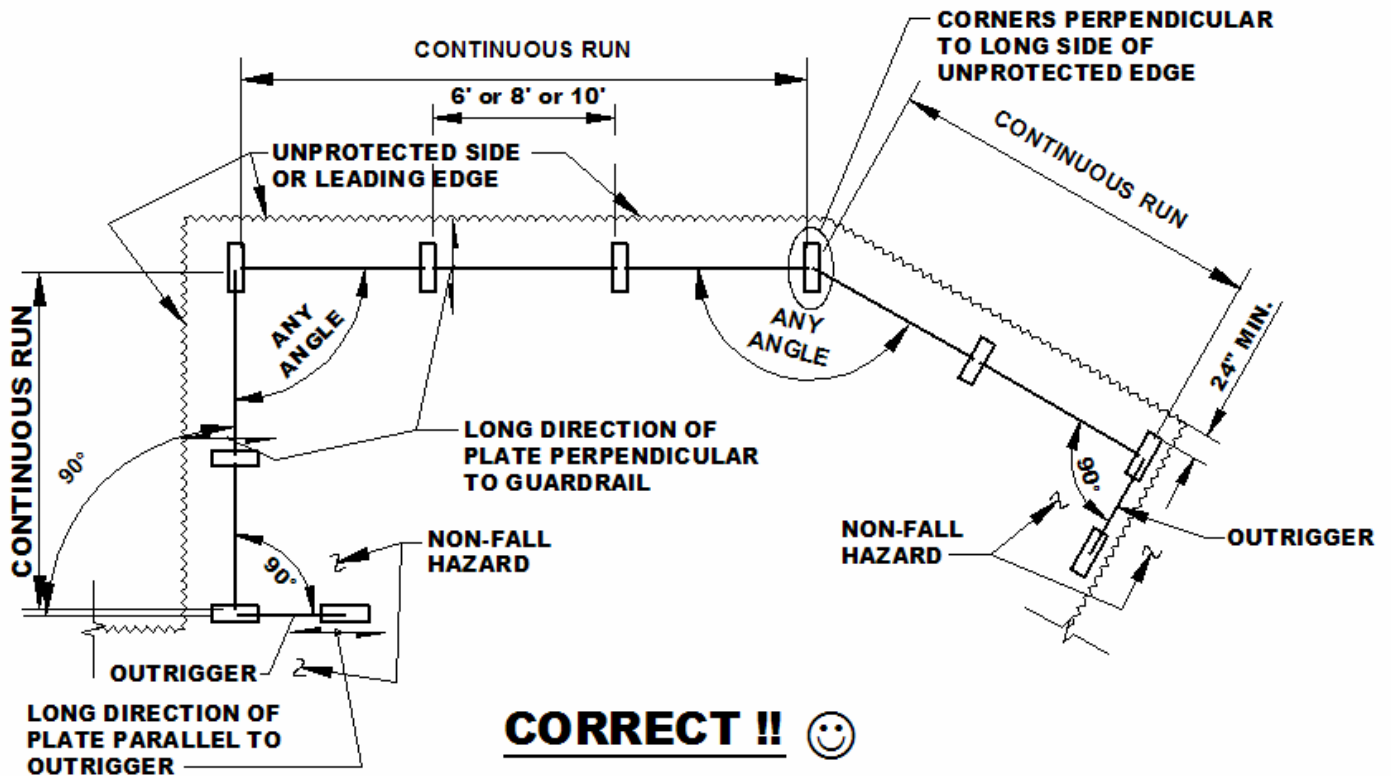
AF-L – Type AF Assembly Fitting. Wood ToeBoard bracket used to attach Wood Toe Boards to PGR-M (Lumber 2x4 *NOT PROVIDED*) when in a Continuous Run.

AF-S – Type AF Assembly Fitting. Wood ToeBoard bracket used to attach Wood Toe Boards to PGR-M (Lumber 2x4 *NOT PROVIDED*) at 90 degree turns and at OUTRIGGERS.

CORRECT INSTALLATION CONFIGURATIONS



CORRECT !! 😊



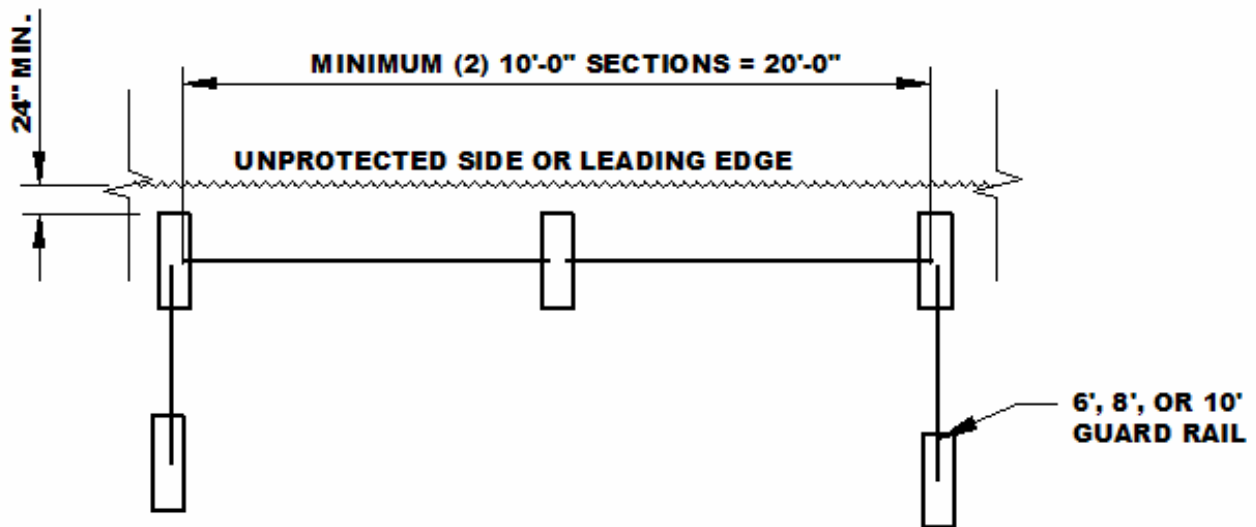
CORRECT !! 😊

UNSURE? 😞 PLEASE CALL! 😊

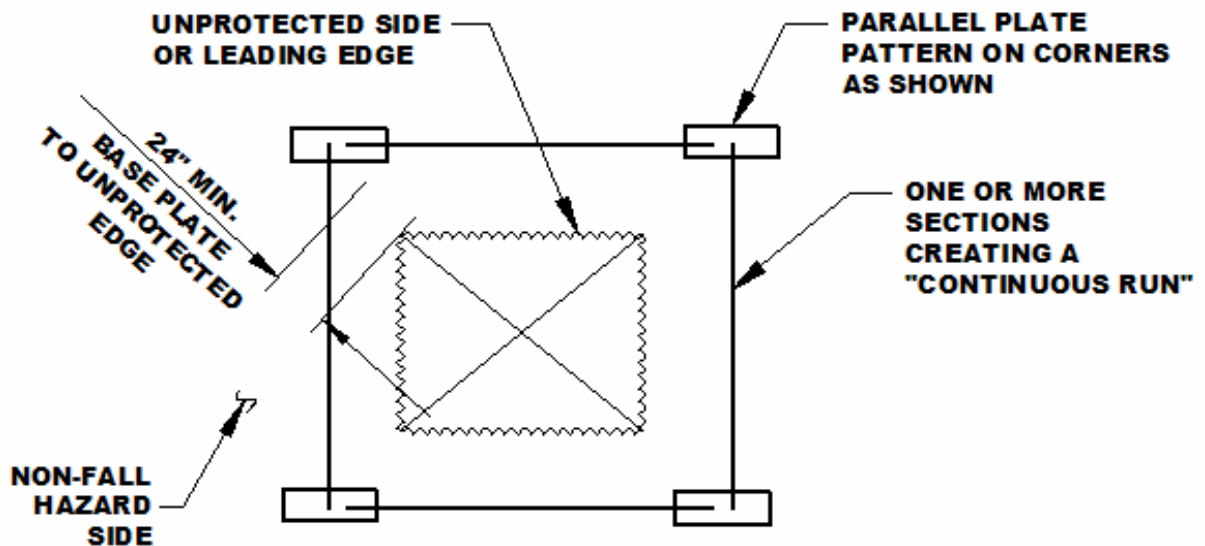
NOTE: For Installations on Surfaces With 1/4" or Less Slope Per Foot. Refer Also To "TAPERED ROOF INSTALLATION" Configuration.

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CORRECT INSTALLATION CONFIGURATIONS



MINIMUM "OPEN" SYSTEM 😊

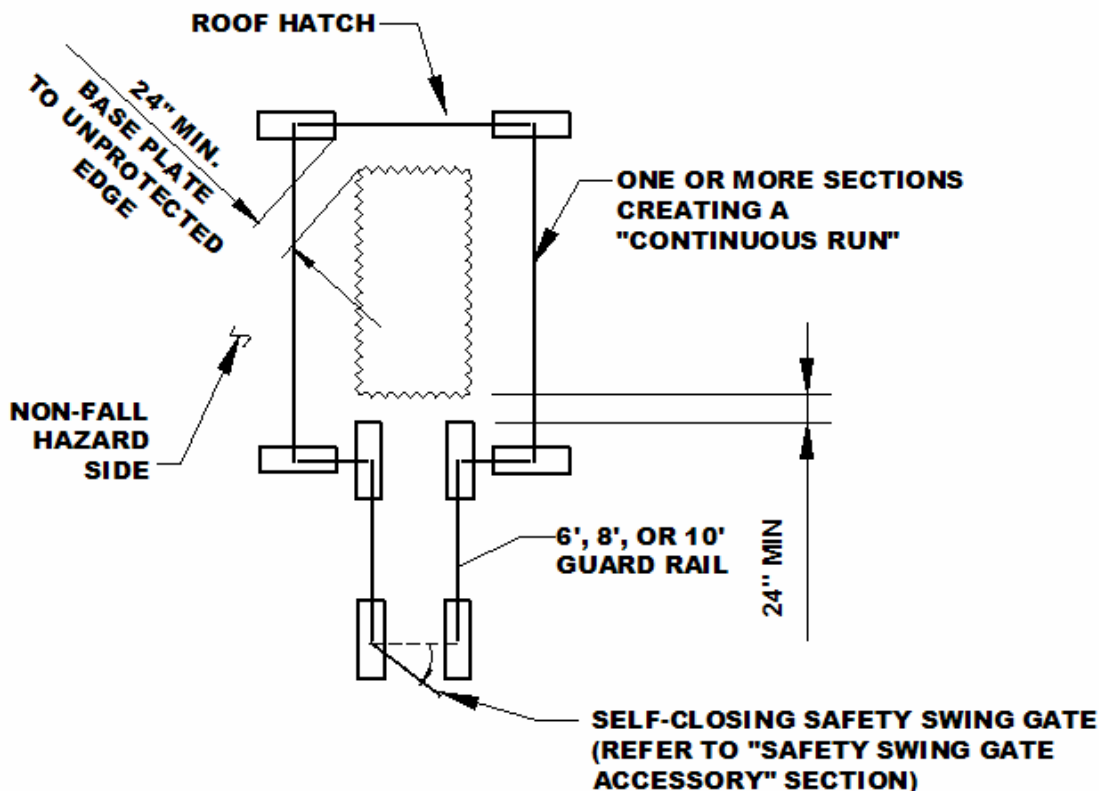


MINIMUM "CLOSED" SYSTEM 😊

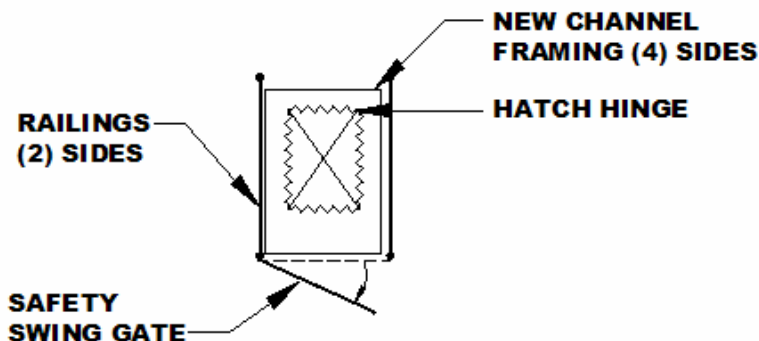
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ROOF HATCH INSTALLATIONS



ROOF HATCH ACCESS USING PGR-M

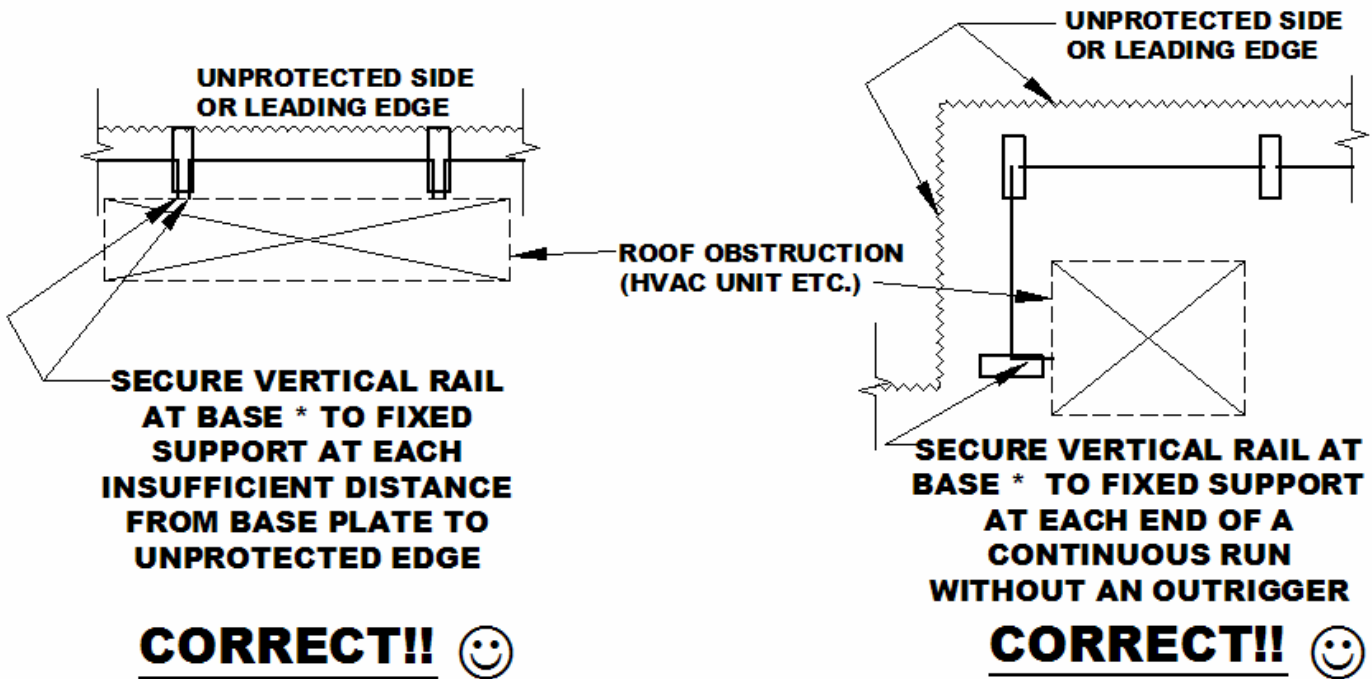
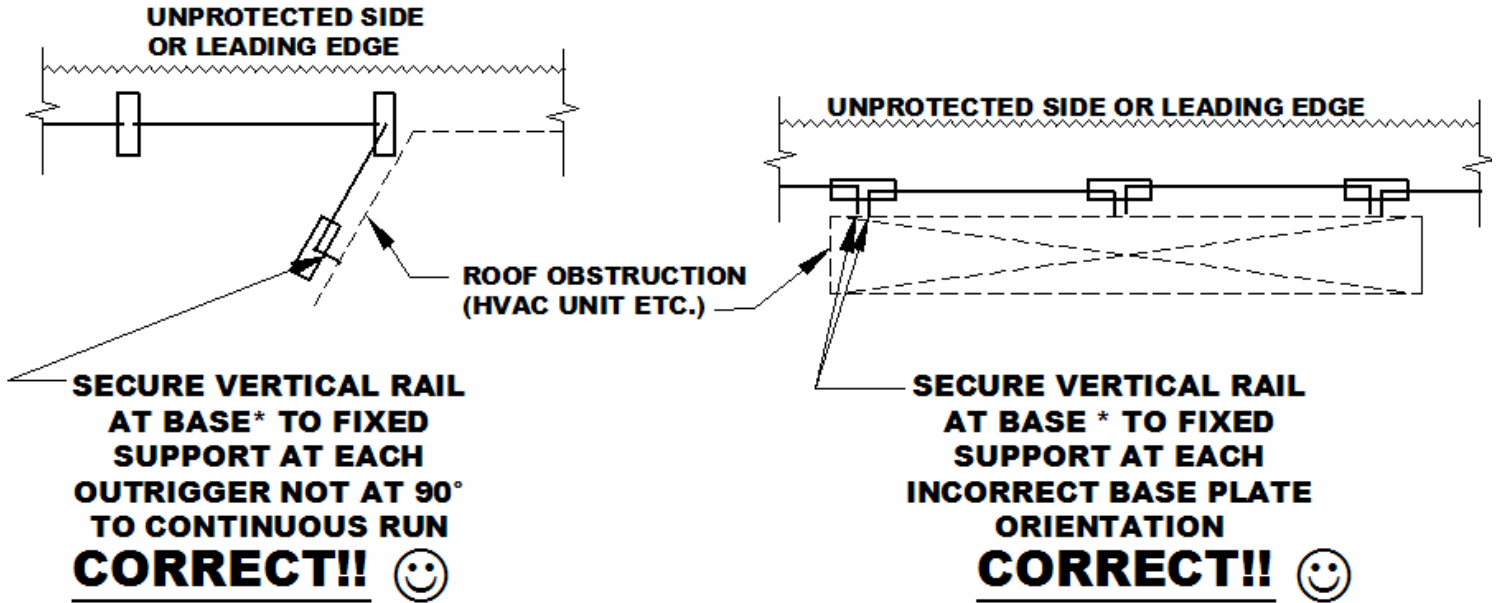


ROOF HATCH SYSTEM USING FIXED RAILING (PART#7900008)

UNSURE? 😞 PLEASE CALL! 😊

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FIELD MODIFIED INSTALLATION CONFIGURATIONS



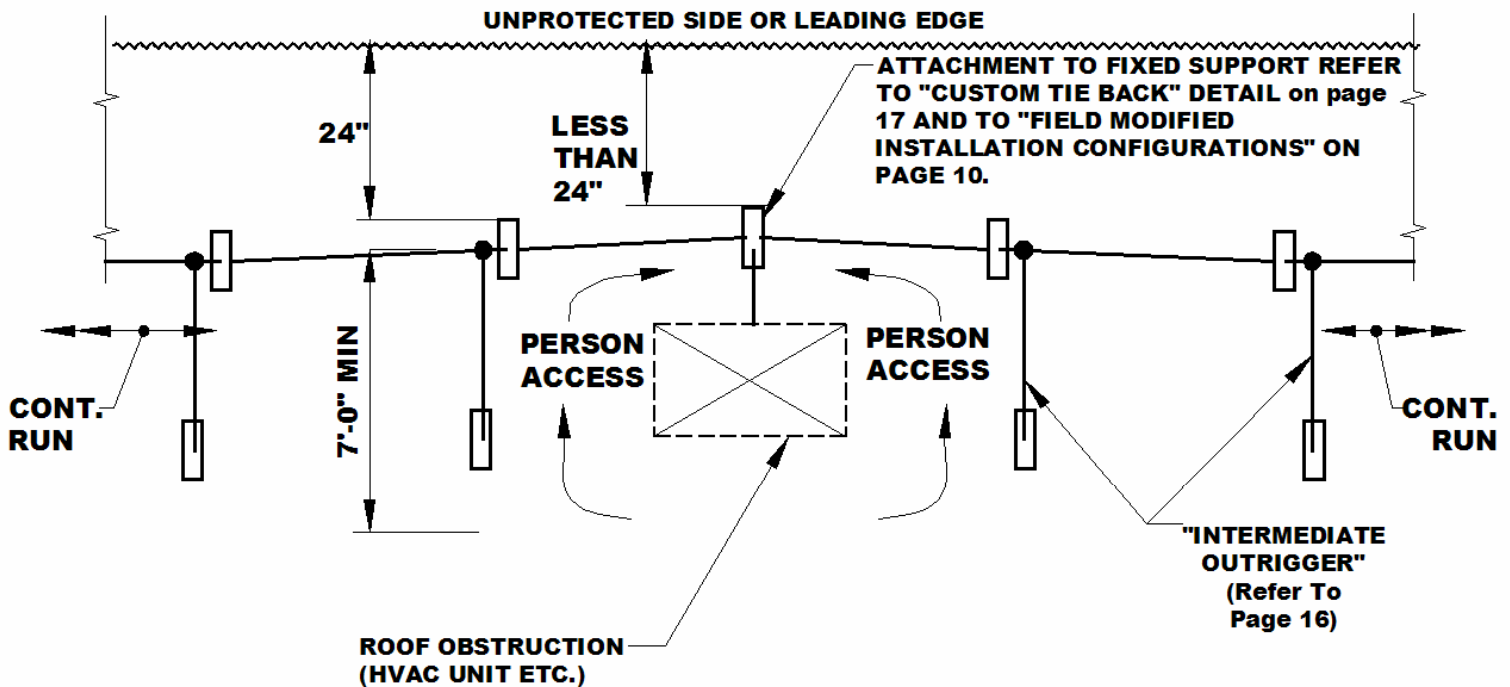
UNSURE? 😞 PLEASE CALL! 😊

***ATTACHMENT TO VERTICAL RAIL AT BASE CAN BE MADE WITH PART SST166. REFER TO "CUSTOM TIEBACK" PAGE 18.**

NOTE: These installations must be designed by an OSHA defined "Qualified Person".

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FIELD MODIFIED INSTALLATION CONFIGURATIONS



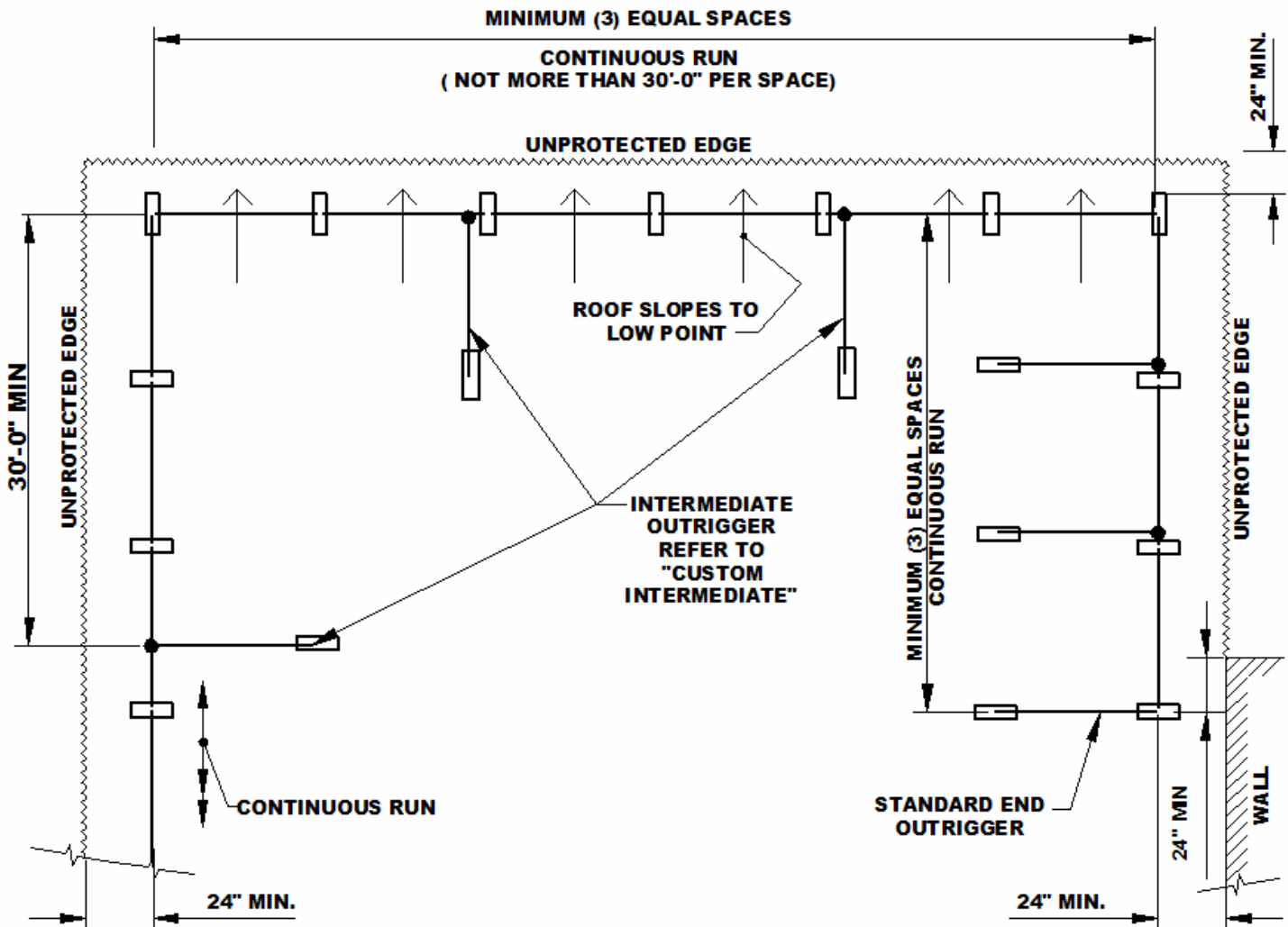
TYPICAL PLAN FOR WORKING CONTINUOUS RUNS AROUND OBSTRUCTIONS

Unsure? Please Call!

NOTE: These installations must be designed by an OSHA defined "Qualified Person".

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TAPERED ROOF INSTALLATION



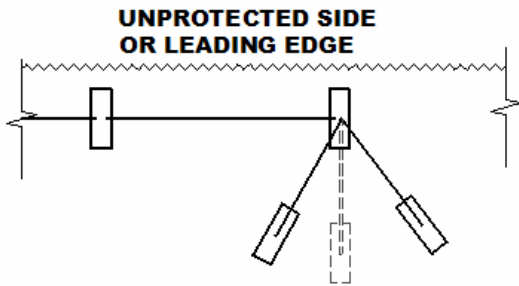
TYPICAL PLAN FOR TAPERED RUBBER / BITUMINOUS ROOFS SLOPED GREATER THAN 1/4" / FOOT & UP TO 1" / FOOT

Unsure? Please Call!

**NOTE: These installations must be designed by
an OSHA defined "Qualified Person".**

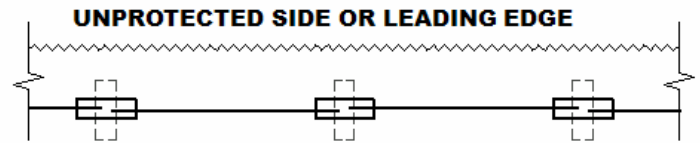
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INCORRECT INSTALLATION CONFIGURATIONS



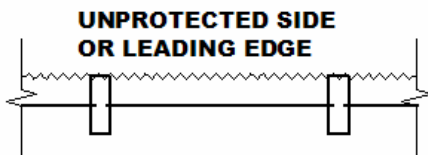
**OUTRIGGER NOT AT 90°
TO CONTINUOUS RUN**

INCORRECT !! ☹️



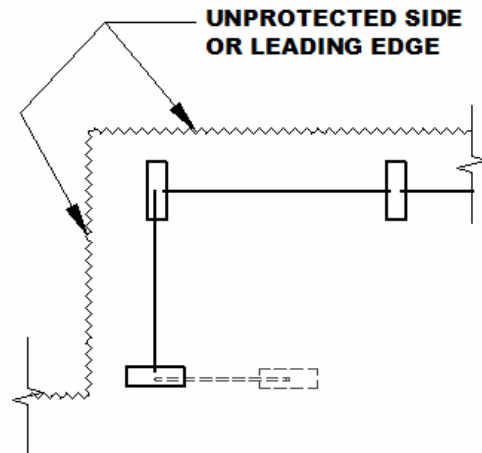
**INCORRECT BASE PLATE
ORIENTATION**

INCORRECT !! ☹️



**INSUFFICIENT DISTANCE
FROM BASE PLATE TO
UNPROTECTED EDGE**

INCORRECT !! ☹️

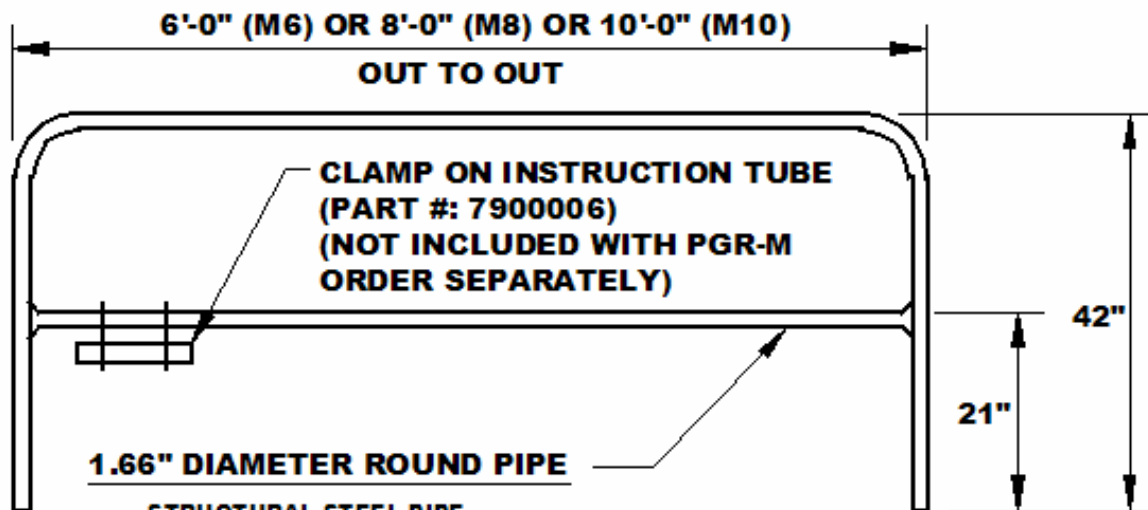


NO OUTRIGGER

INCORRECT !! ☹️

UNSURE? ☹️ **PLEASE CALL!** 😊

SPECIFICATIONS



STRUCTURAL STEEL PIPE

- Strong & Rigid
- Precision Bent For Consistent Quality
- Smooth Corner Radii

POLYESTER POWDER COAT FINISH

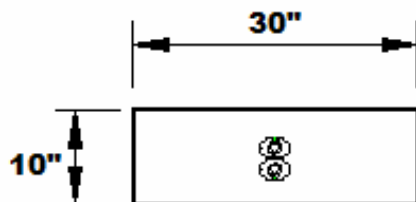
- Durable
- Attractive Fade Resistant
- Scratch Resistant
- Color Options ("Safety Yellow" - Standard)

LIGHTWEIGHT

- 6'-0" Guard Rail: 34 lbs
- 8'-0" Guard Rail: 41 lbs
- 10'-0" Guard Rail: 48 lbs

PGR-M6, M8, or M10-GUARDRAIL

PART #s: 7900010, 7900011, or 7900012



LIGHTWEIGHT 59 LB BASE PLATE

DURABLE FINISH ON BASE

- Protective & Durable
- Attractive Fade Resistant
- "Safety Yellow" - Standard

NON-SKID BASE

- Marine Quality
- Meets Military and Motor Vehicle Safety Standard Specs

BP2Y5-BASEPLATE

PART #: 7900004

PART #S FOR PGR WITH ONE BASE PLATE:

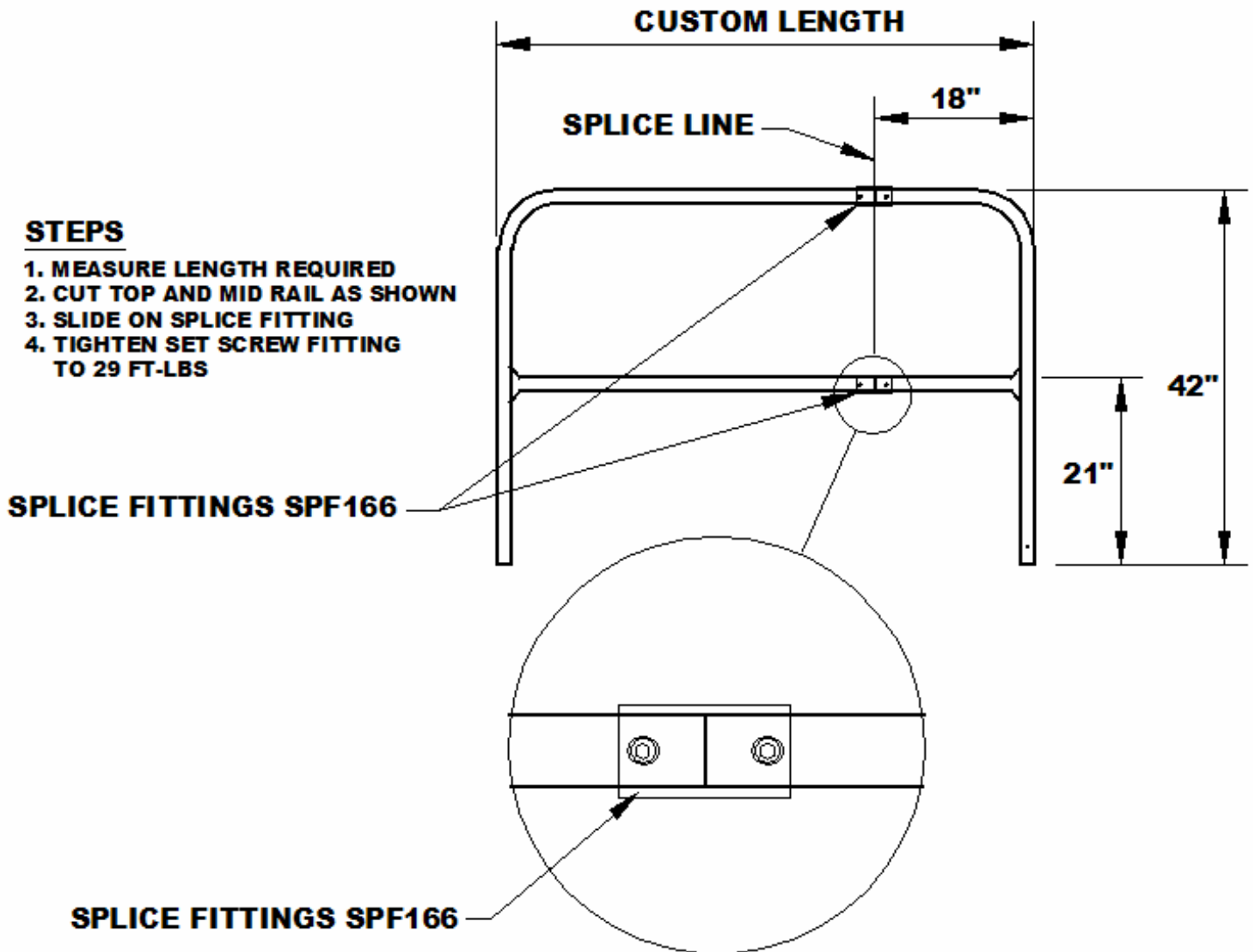
7900000 (PGR-M6 with BP2Y5)

7900001 (PGR-M8 with BP2Y5)

7900002 (PGR-M10 with BP2Y5)

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CUSTOM LENGTH SPLICE FITTING

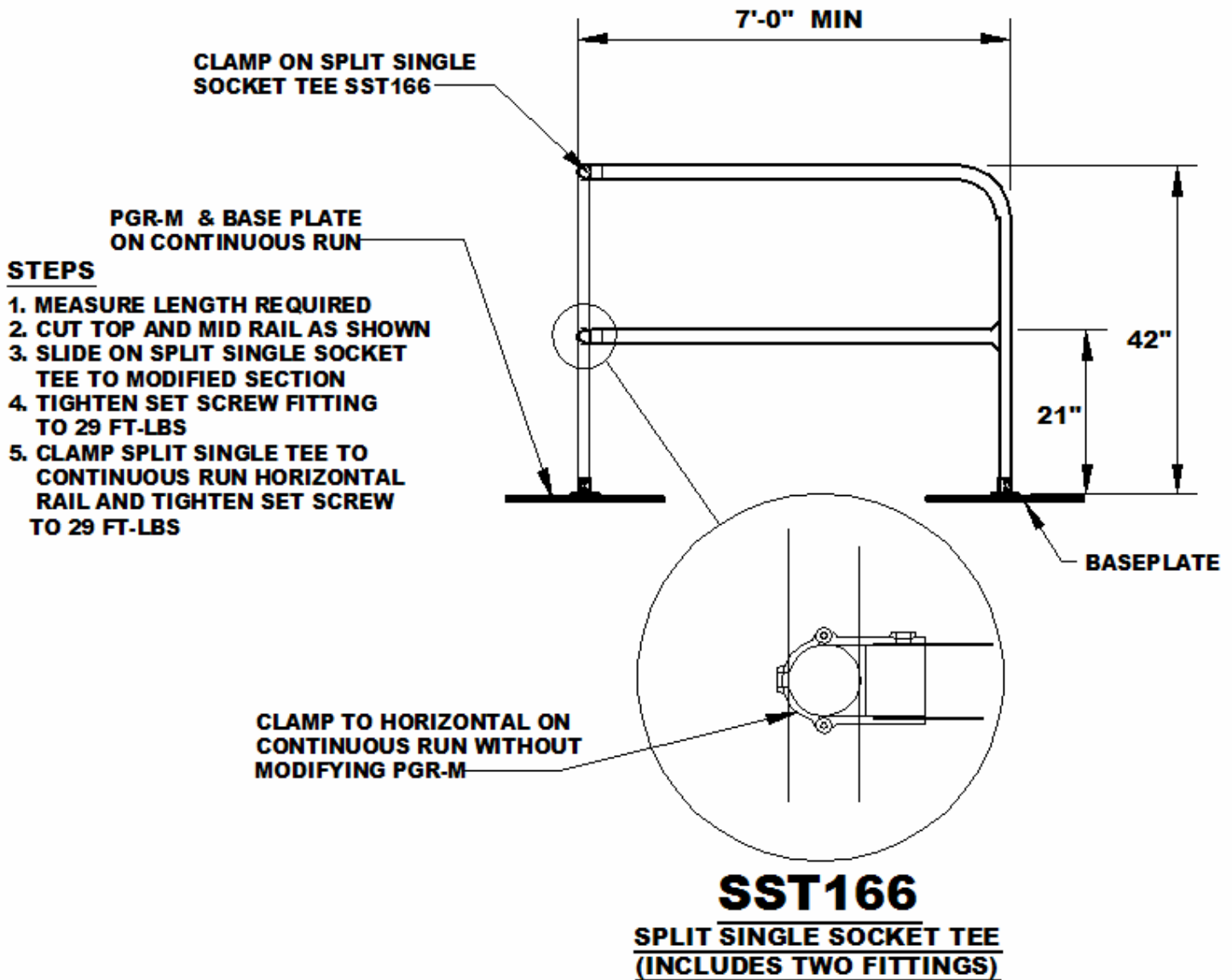


PGR-M6, M8, or M10 CUT TO MODIFIED LENGTH WITH SPLICE FITTING SPF166

SPLICE KIT PART #: 7900005
(INCLUDES TWO FITTINGS)

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INTERMEDIATE OUTRIGGER

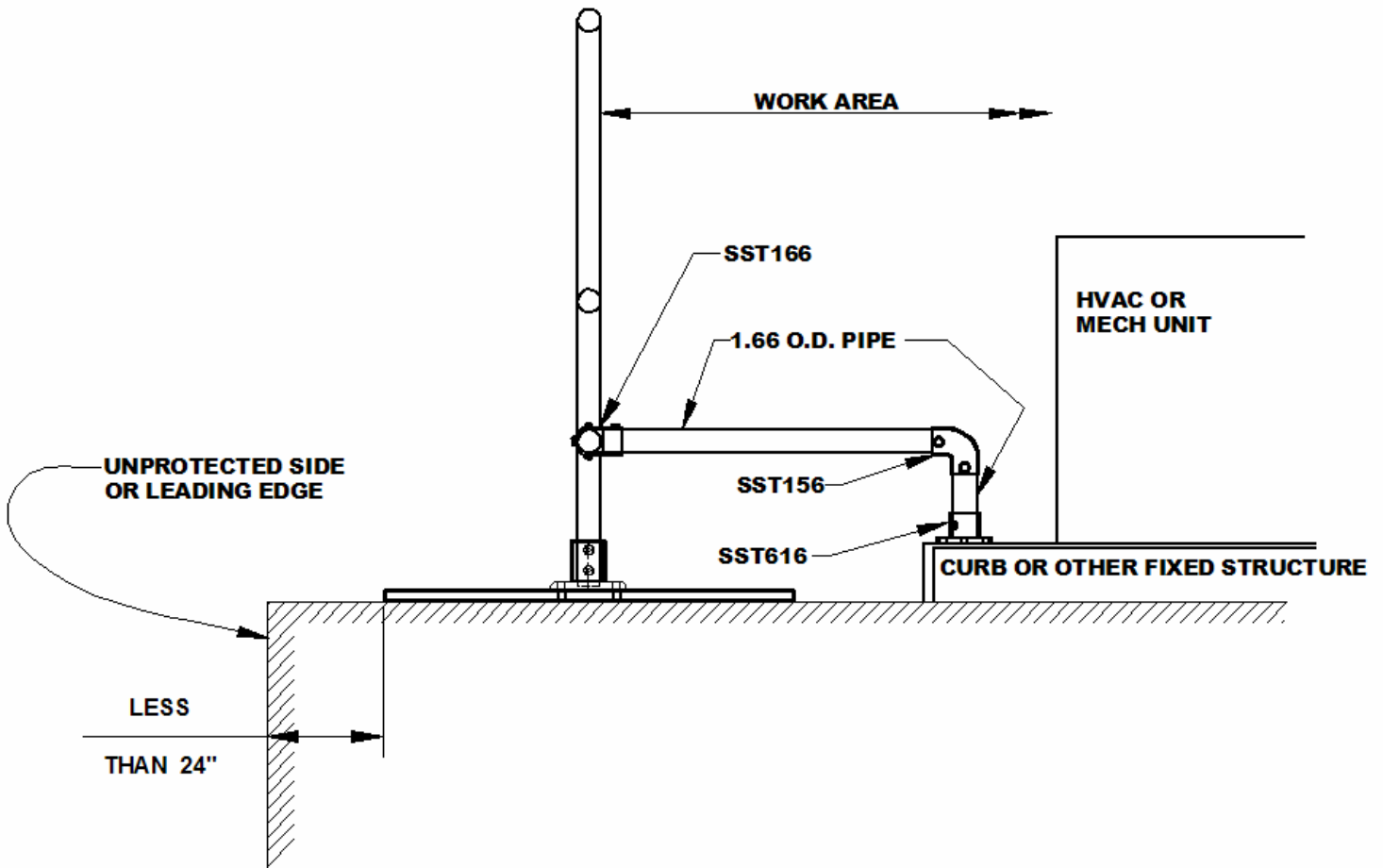


INTERMEDIATE OUTRIGGER FOR MODIFIED AND TAPERED ROOF INSTALLATION

MADE FROM PGR-M8 or M10 CUT HORIZONTAL AT VERTICAL POST TO MODIFY

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CUSTOM TIEBACK

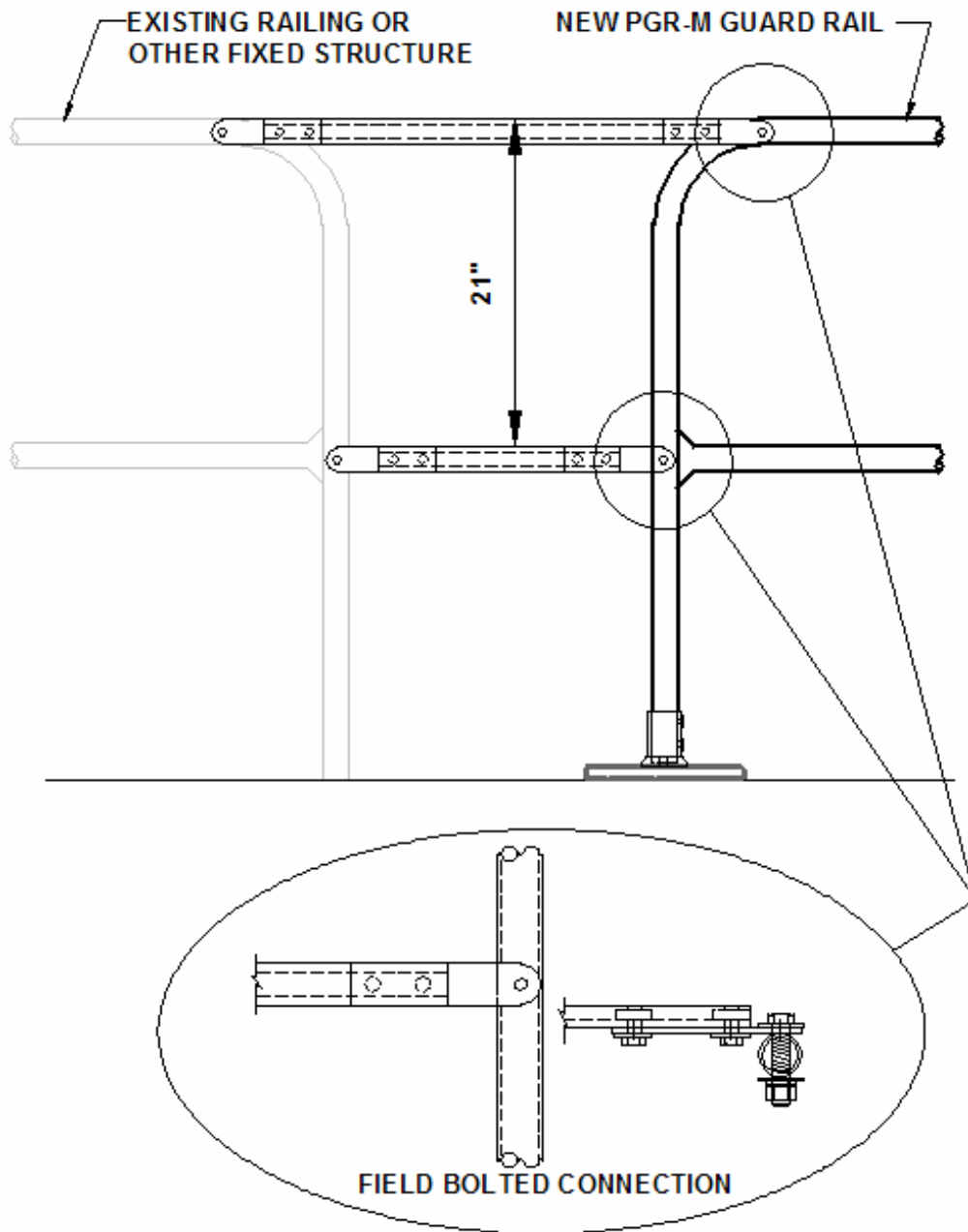


ATTACHMENT TO FIXED SUPPORT WITH CUSTOM TIEBACK

USE EITHER PIPE AND FITTINGS AS SHOWN OR
OTHER SUITABLE STRUCTURAL MATERIALS

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EXTENDED GUARDRAIL DETAIL

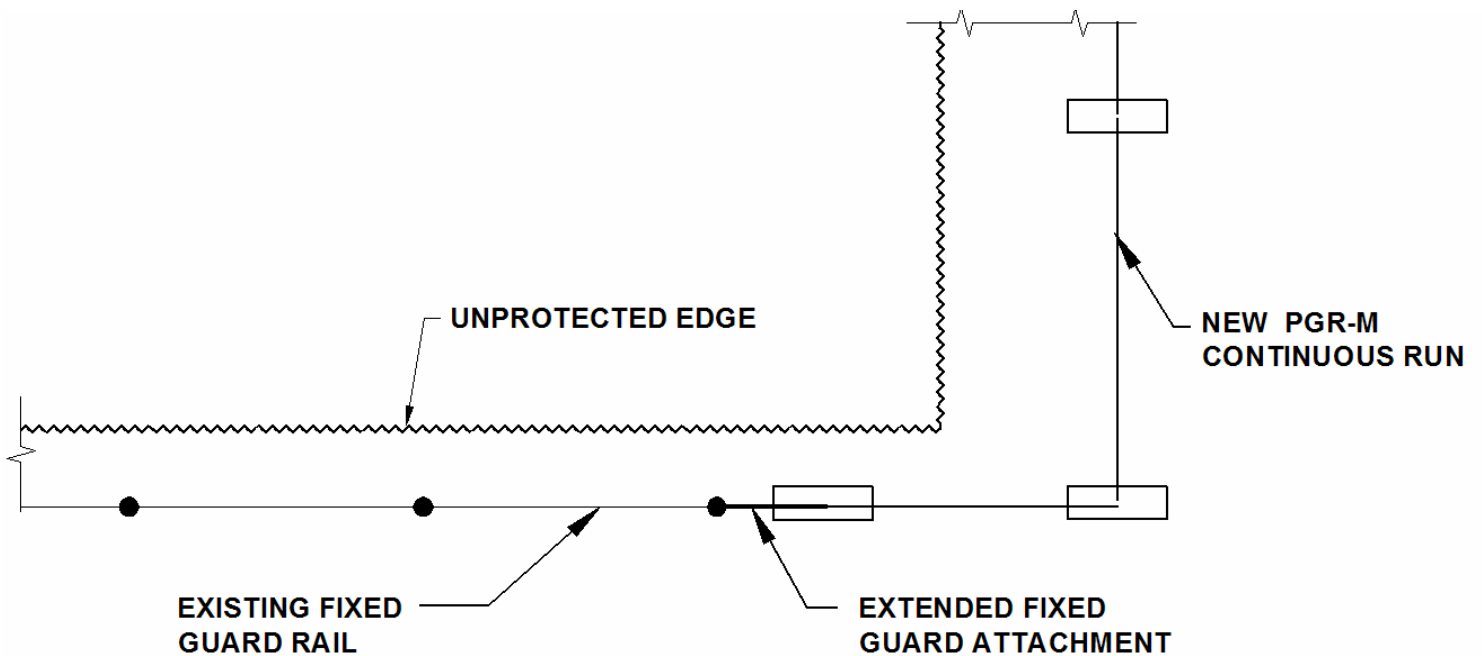


EXTENDED FIXED GUARD ATTACHMENT

PART #: EFGA-48
**(INCLUDES TWO LENGTHS 48" LONG FOR ONE
CLOSURE - TOP AND MID RAILS)**

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EXTENDED GUARDRAIL INSTALLATION



EXTENDED FIXED GUARD ATTACHMENT INSTALLATION

SYSTEM OSHA COMPLIANCE

COMPLETE SYSTEM EXCEEDS OSHA 29 CFR-1910.23 & 1926.502 AND IBC 2002 DESIGN REQUIREMENTS FOR GUARDRAIL WHEN ASSEMBLED PER INSTALLATION MANUAL

- Exceeds top rail loading of 200 lbs in any downward or outward direction
- Exceeds mid rail loading of 150 lbs in any downward or outward direction
 - 3'-6" high 1.66" outside diameter round pipe guard rail
 - Mid rail 1'-9" between base and top rail

Independently Tested To Exceed These Requirements

CSI FORMATTED SPECIFICATIONS FOR A PORTABLE GUARD RAIL™ SYSTEM AVAILABLE UPON REQUEST

05720 Handrails and Railings
07700 – Roofing – Specialties and Accessories

PGR-M INSTALLATION PROCEDURES

- 1) Lay out the job first by measuring and spacing the BASE PLATES. (locate bases at least 24” from the edge of any surface) Failure to properly measure and plan ahead will result in difficulty in moving the assembled system to another location.
- 2) Be sure the BASE PLATES are in the correct orientation and the bottom of the BASE PLATE is non-skid treated. Next check that adequate room has been provided for the Outriggers (Refer to pages 8 - 14).
- 3) When satisfied with the layout, start inserting Guardrail sections M6, M8 or M10 into BASE PLATE (BP2Y5) fitting which is mounted on the BASE PLATE.
- 4) Locate CLAMP ON INSTRUCTION TUBE Accessory containing the Allen Wrench and Instructions to the mid-rail (Refer to page 32).
- 5) Use the Allen Wrench to tighten the set screws of the fittings mounted on the BASE PLATE. Torque set screws to 29 lbs/foot. Check tension twice on set screws to make sure they all have been tightly secured. To disassemble, reverse the process. Once installation is completed, return Allen Wrench to the tube for future use.
- 6) TOEBOARDS are an optional accessory provided only upon request. Refer to “TOEBOARD Accessory” section for information where to use TOEBOARDS.

TOEBOARD Accessory

TOEBOARD DEFINED

- TOEBOARD means a low protective barrier that will prevent the fall of materials and equipment to lower levels and provide protection from falls for personnel [on non-portable systems mounted on sloped roofs]. (OSHA 1926.500)

WHEN TO USE TOEBOARDS

PORTABLE GUARD RAIL shall be provided with a ToeBoard:

1. When the unprotected edge does not have a substantial barrier (such as a parapet wall on a roof) [DETAILS 'A' & 'B', page 4]

AND

The fall of materials and equipment are a potential at a work area (such as at a mechanical unit near the edge of a roof)

AND

Wherever, beneath the open sides,

- Persons can pass,
- There is moving machinery, or
- There is equipment with which falling materials could create a hazard.

(OSHA 1910.23 (c)(1))

2. At every ladderway floor opening or platform - shall be guarded by a standard railing with standard TOEBOARD on all exposed sides (except at entrance to opening), with the passage through the railing either provided with a swinging gate or so offset that a person cannot walk directly into the opening (OSHA 1910.23(a)(2)).
3. On a Continuous Run - the TOEBOARD protection shall extend one GUARD RAIL unit on either side of a work area (TOEBOARD Manual page 5).

4. In the "Protection from falling objects." When an employee is exposed to falling objects, the employer shall have each employee wear a hard hat and shall implement one of the following measures:
- Erect TOEBOARDS, screens, or guardrail systems to prevent objects from falling from higher levels; or,
 - Erect a canopy structure and keep potential fall objects far enough from the edge of the higher level so that those objects would not go over the edge if they were accidentally displaced; or,
 - Barricade the area to which objects could fall, prohibit employees from entering the barricaded area, and keep objects that may fall far enough away from the edge of a higher level so that those objects would not go over the edge if they were accidentally displaced.
- (OSHA 1926.501(c))
-

PORTABLE GUARD RAIL TOEBOARDS, when used as falling object protection:

- Shall be erected along the edge of the overhead walking/working surface for a distance sufficient to protect employees below. (OSHA 1926.502(j)(1))

AND

- Where tools, equipment, or materials are piled higher than the top edge of a ToeBoard, paneling or screening shall be erected from the walking/working surface or ToeBoard to the top of a guardrail system's top rail or midrail, for a distance sufficient to protect employees below. (OSHA 1926.502(j)(4))

PGR TOEBOARD CONSTRUCTION

- ToeBoards shall be capable of withstanding, without failure, a force of at least 50 pounds (222 N) applied in any downward or outward direction at any point along the ToeBoard. (OSHA 1926.502(j)(2))
- ToeBoards shall be a minimum of 3 1/2 inches (9 cm) in vertical height from their top edge to the level of the walking/working surface. They shall have not more than 1/4 inch (0.6 cm) clearance above the walking/working surface. They shall be solid or have openings not over 1 inch (2.5 cm) in greatest dimension. (OSHA 1926.502(j)(3))

TYPE-TB: METAL TOEBOARDS WITH ASSEMBLY FITTINGS

- Fabricated sheet steel toeboard with durable galvanealed or powder coated finish.
- Pre-mounted assembly fittings slides onto base fittings without any tools required.

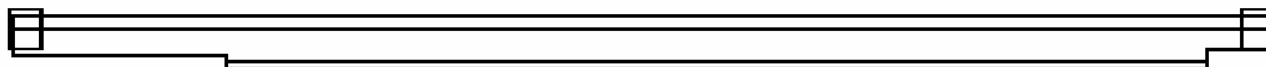
TYPE-AF: WOOD TOEBOARD ASSEMBLY FITTING

- Fabricated finished galvanealed sheet steel assembly fittings.
- Fitted for 2x4 lumber toeboard (*not provided*).

METAL TOEBOARD WITH ASSEMBLY FITTINGS –TYPE TB

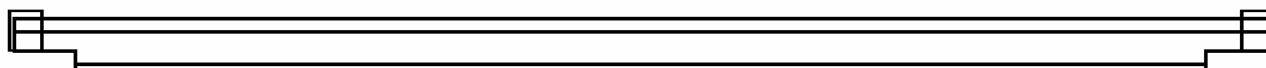


TOP VIEW



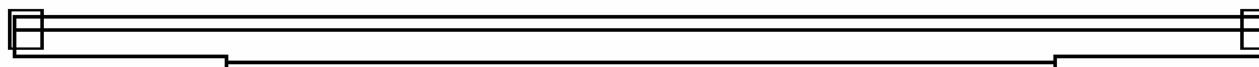
TB-(6' or 8' or 10') L - SIDE VIEW

PART #s: 7900020 or 7900022 or 7900024



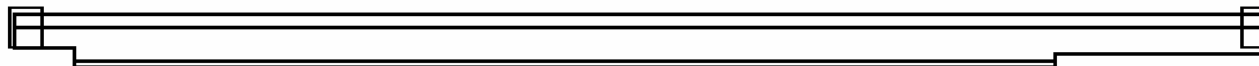
TB-(6' or 8' or 10') M - SIDE VIEW

PART #s: 7900013 or 7900015 or 7900017



TB-(6' or 8' or 10') M2 - SIDE VIEW

PART #s: 7900014 or 7900016 or 7900018



TB-(6' or 8' or 10') R - SIDE VIEW

PART #s: 7900019 or 7900021 or 7900023

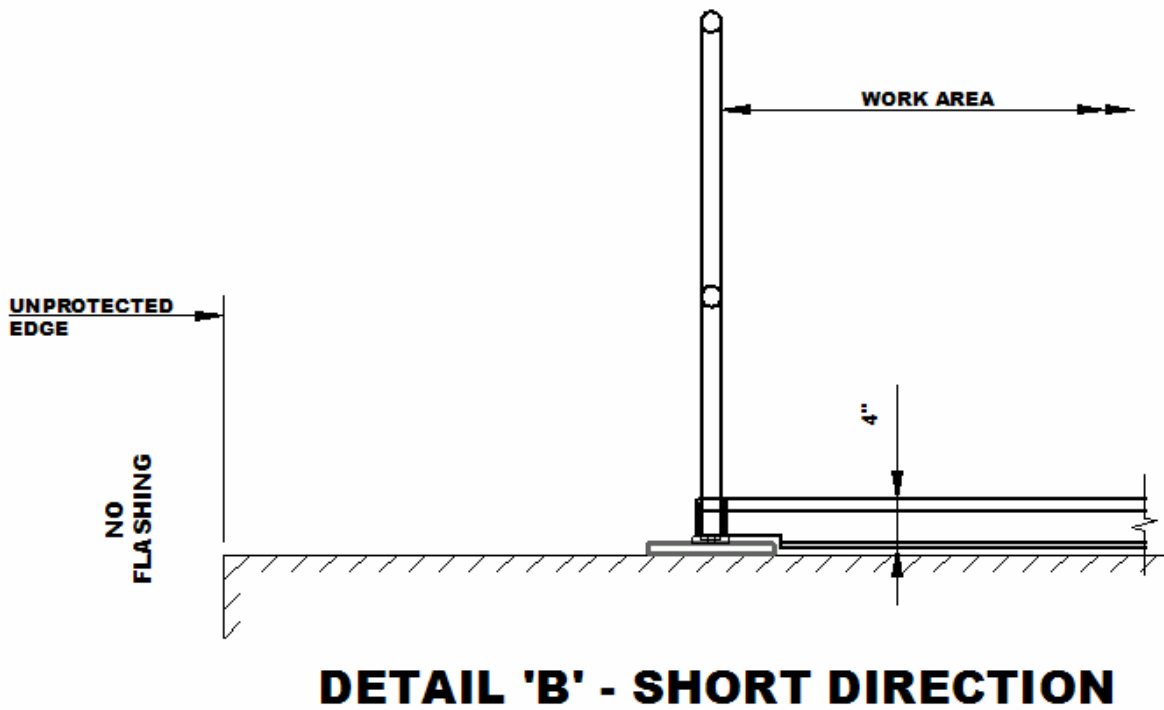
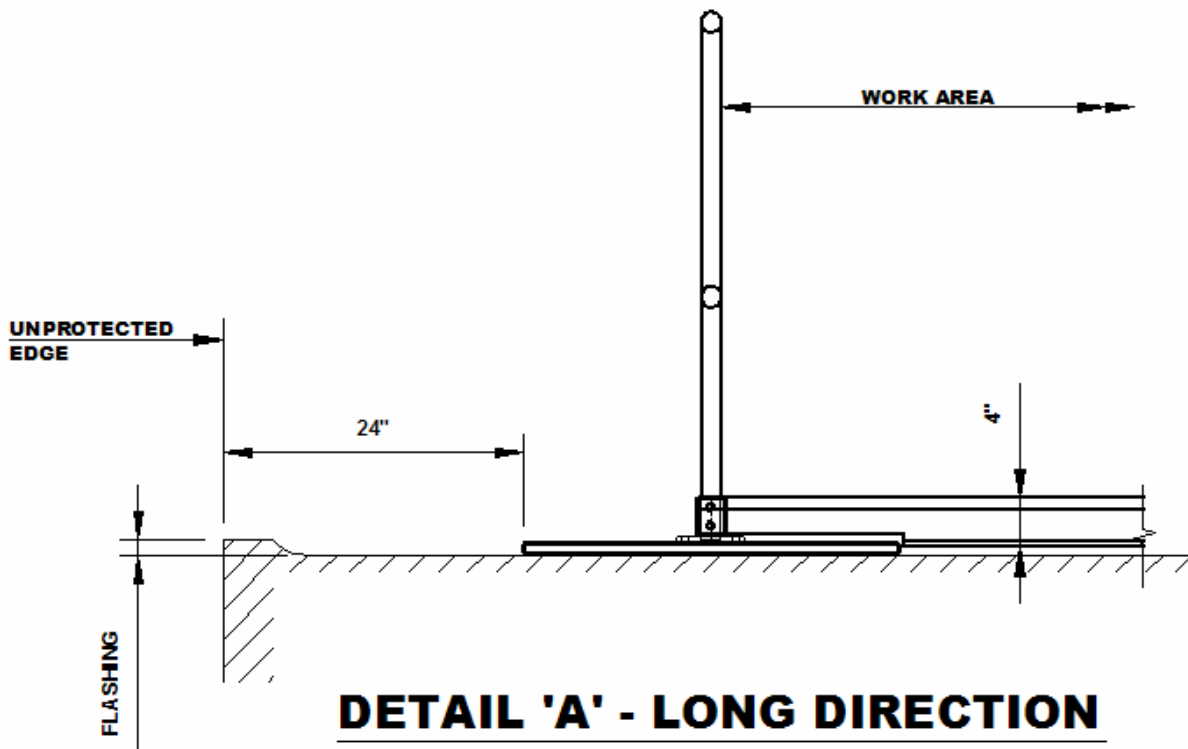


CUSTOM LENGTH WITH SPLICE PLATE TBSP4

SPLICE PLATE KIT PART #: 7900025 (INCLUDES TWO PLATES)

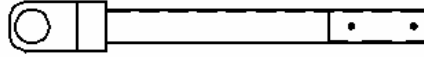
Please contact the manufacturer's representative to determine the type and part number required for your installation.

METAL TOEBOARD DETAILS - TYPE TB

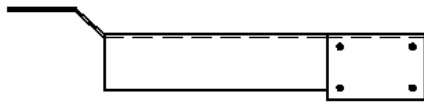


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WOOD TOEBOARD ASSEMBLY FITTINGS – TYPE AF



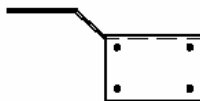
AF-L TOP VIEW



AF-L SIDE VIEW

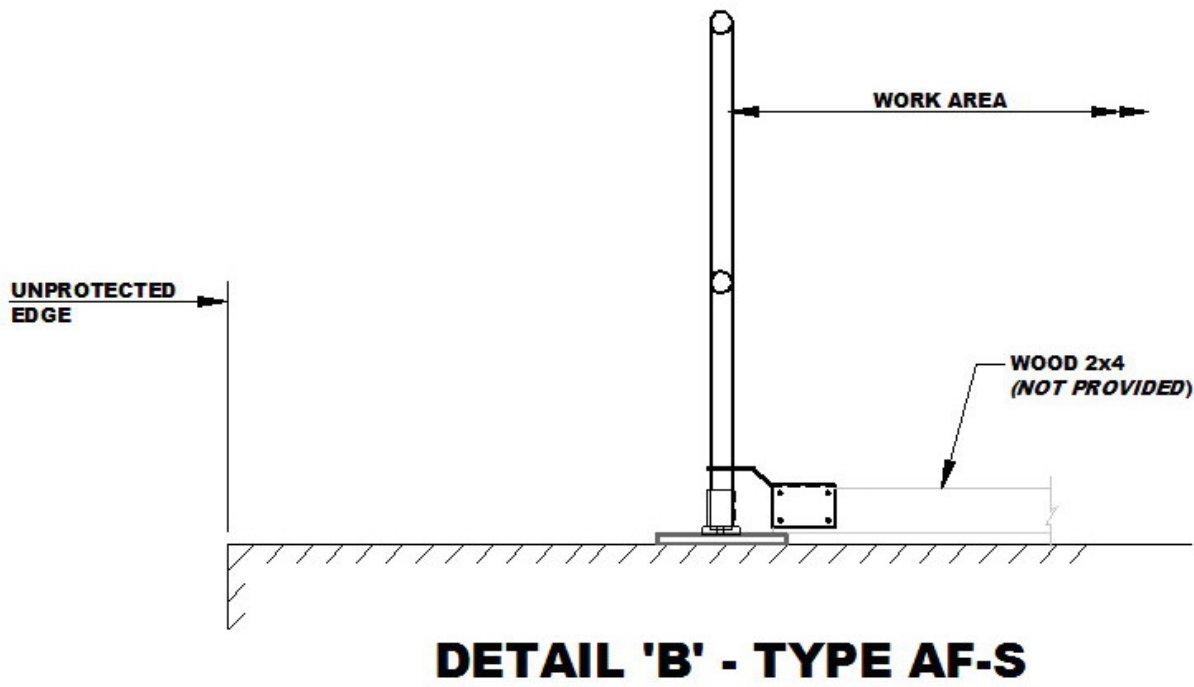
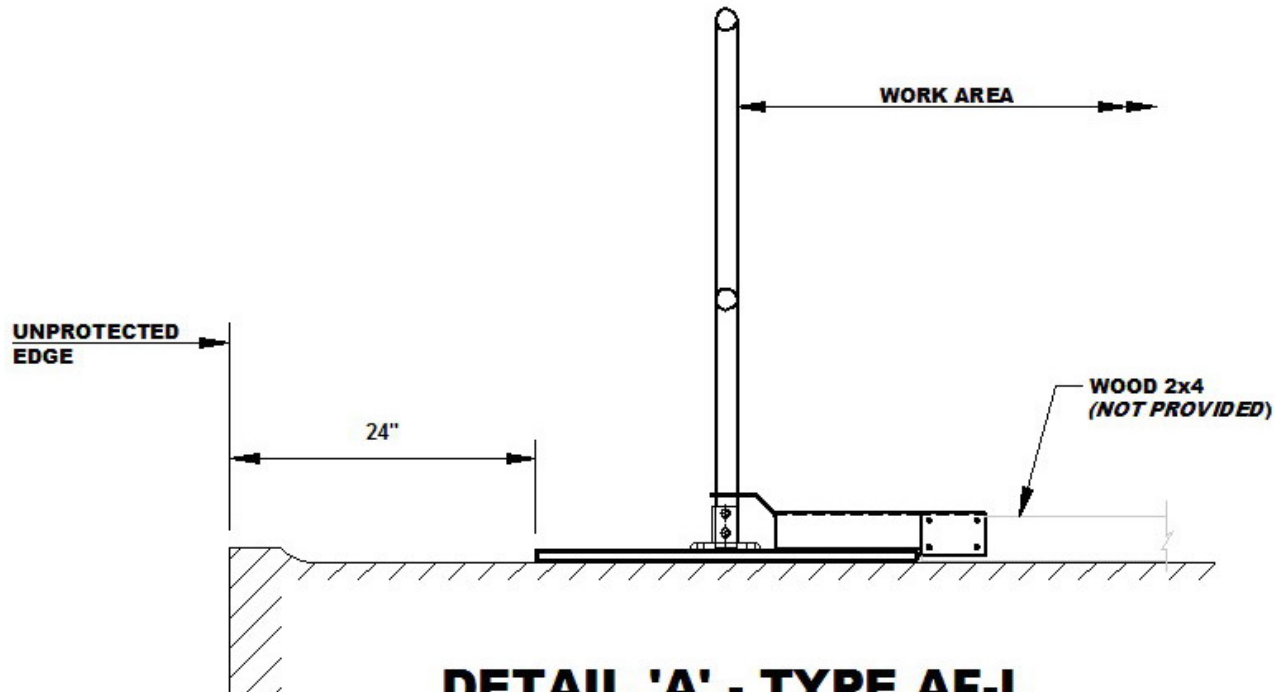


AF-S TOP VIEW



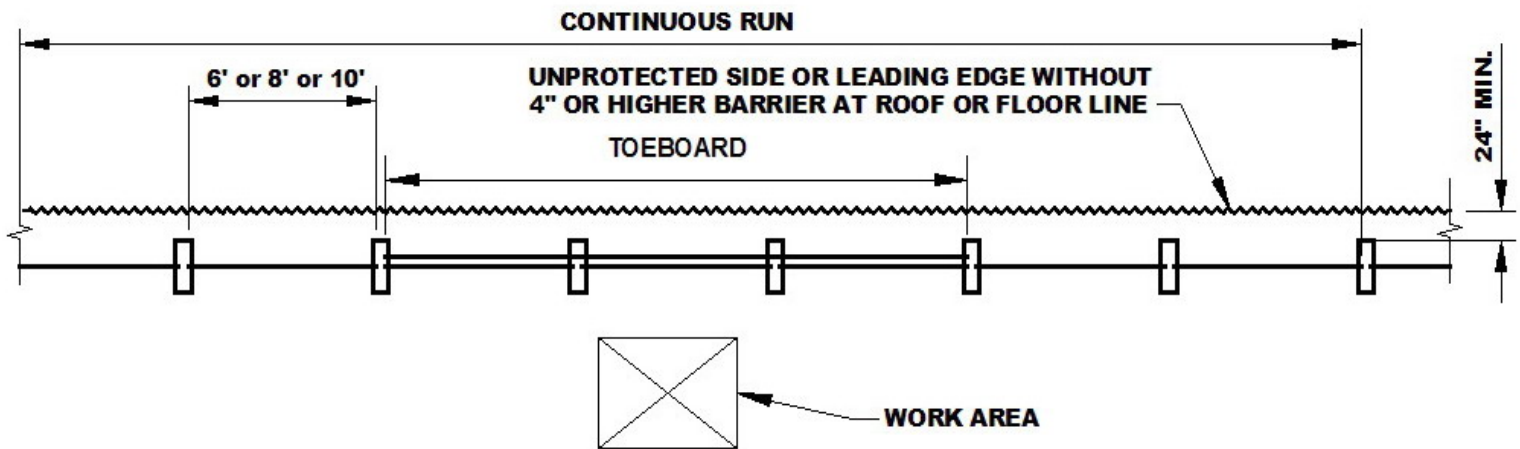
AF-S SIDE VIEW

WOOD TOEBOARD DETAILS - TYPE AF

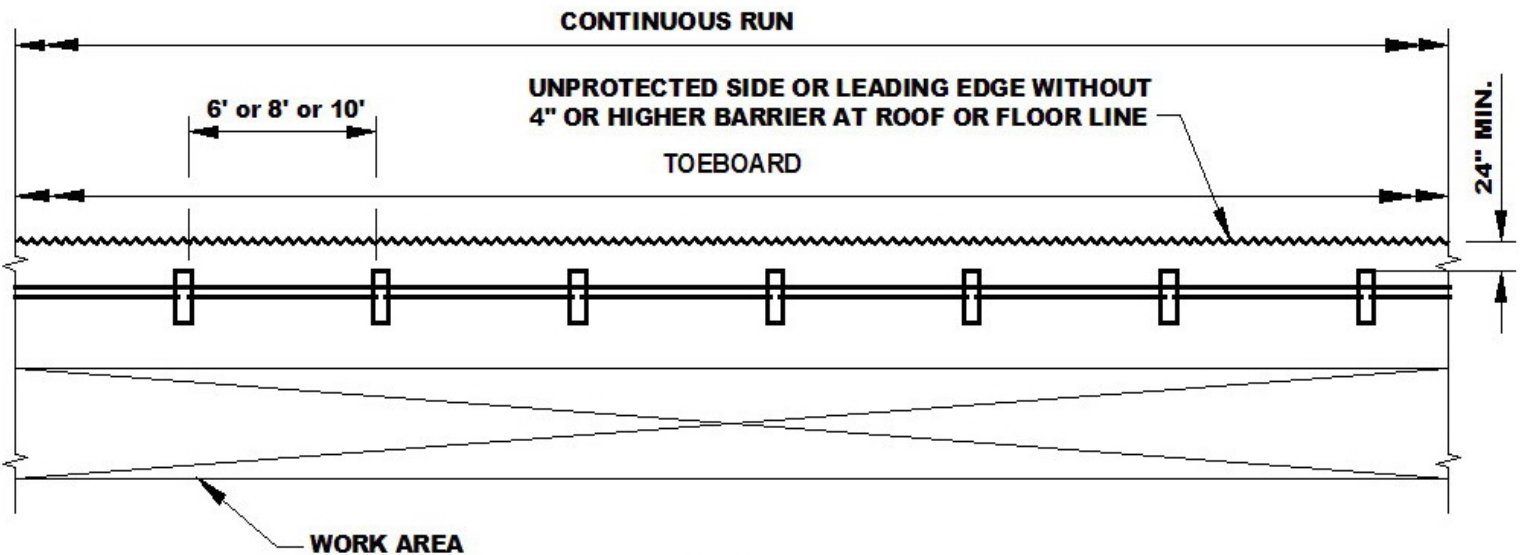


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TOEBOARD INSTALLATION CONFIGURATIONS



CORRECT !! 😊



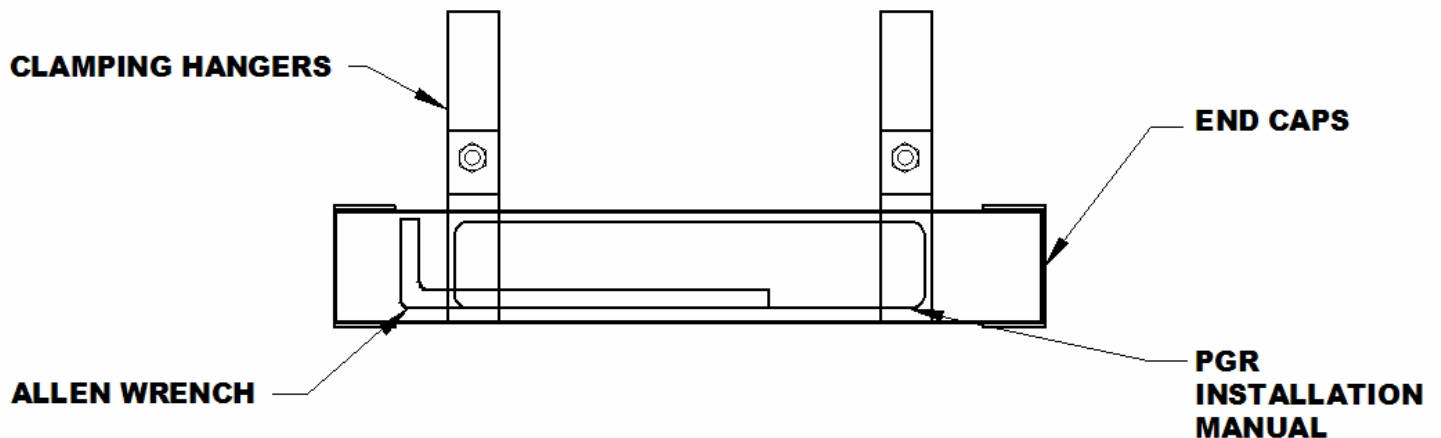
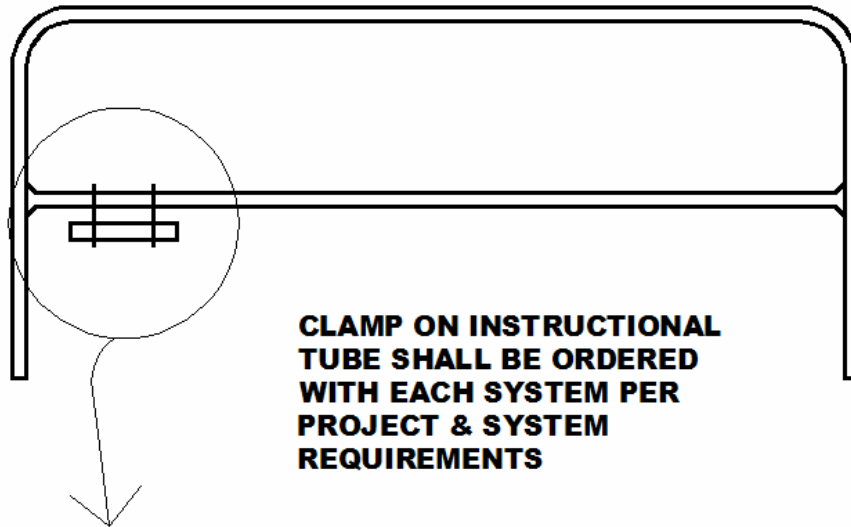
CORRECT !! 😊

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TOEBOARD INSTALLATION PROCEDURES

- 1) After laying out the job and placing BASE PLATES per the “PGR-M INSTALLATION PROCEDURES, slide the TOEBOARD over the BASEPLATE (BP2Y5) fitting which is mounted on the BASE PLATE.
- 2) Be sure the proper TOEBOARD model is used with the properly corresponding BASE PLATE orientation (long or short direction).
- 3) Insert the Guardrail sections M6, M8 or M10 into BASE PLATE (BP2Y5) fitting which is mounted on the BASE PLATE.
- 4) It is necessary to rise up the TOEBOARD assembly at this point to tighten the set screws for the fittings mounted on the BASE PLATE.

CLAMP-ON INSTRUCTION TUBE Accessory

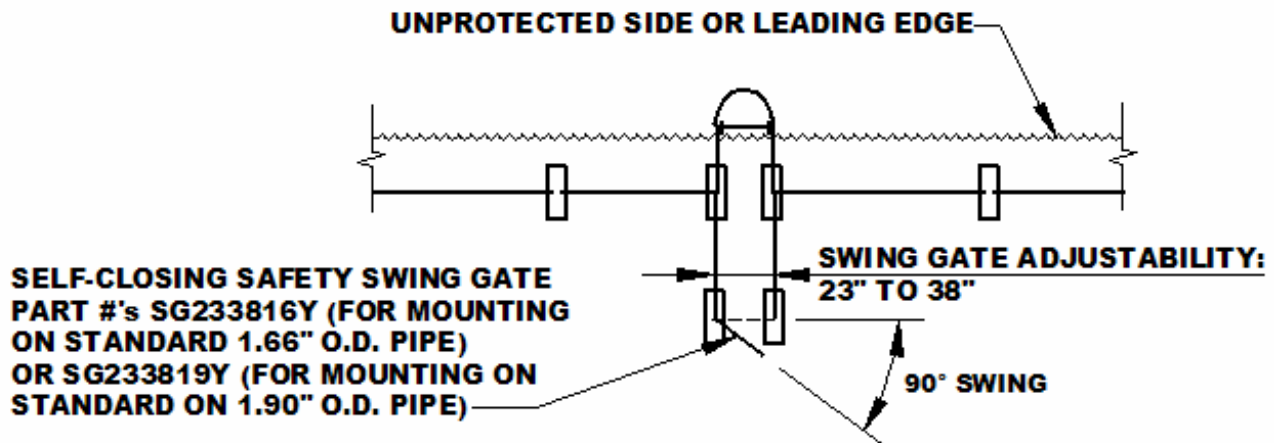


CT-1912

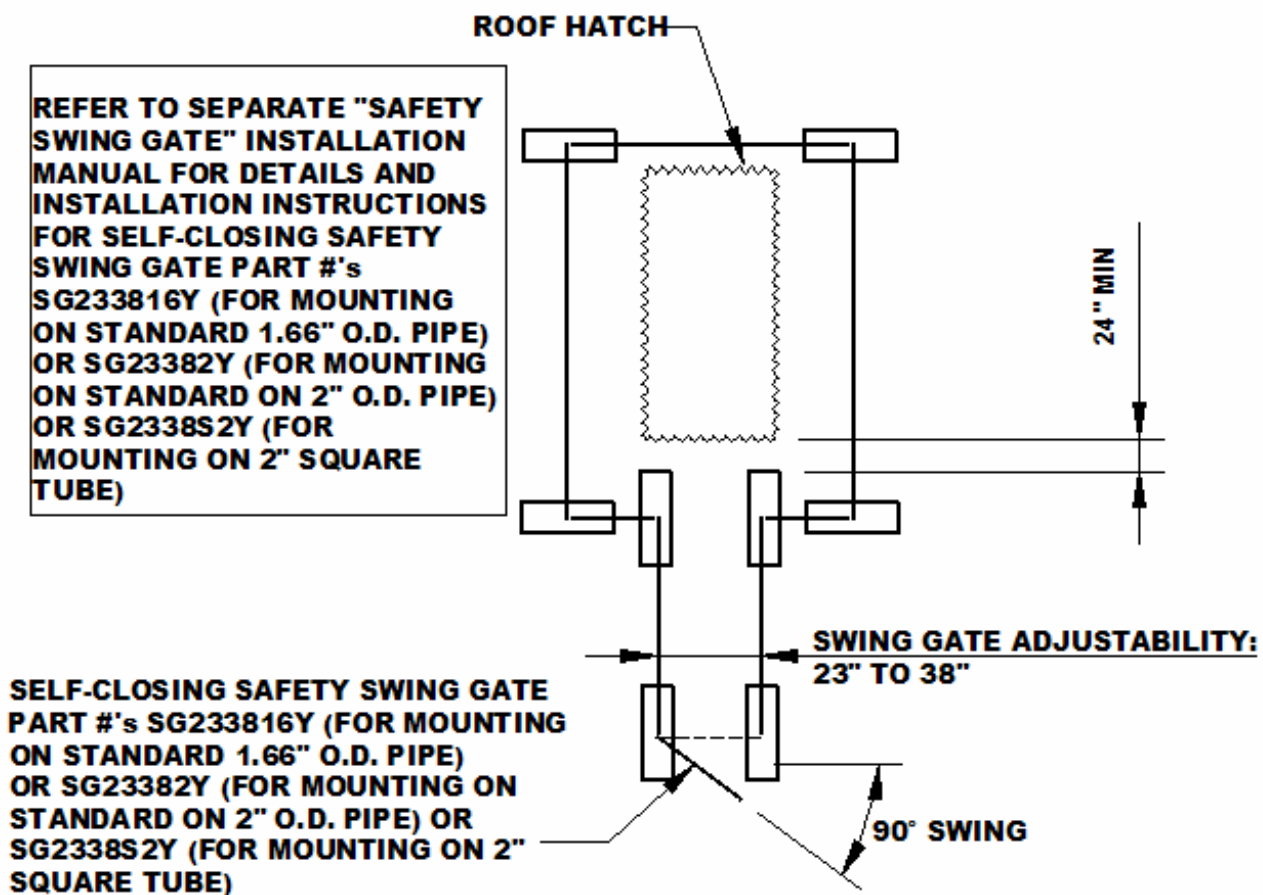
PART #: 7900006

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SAFETY SWING GATE Accessory



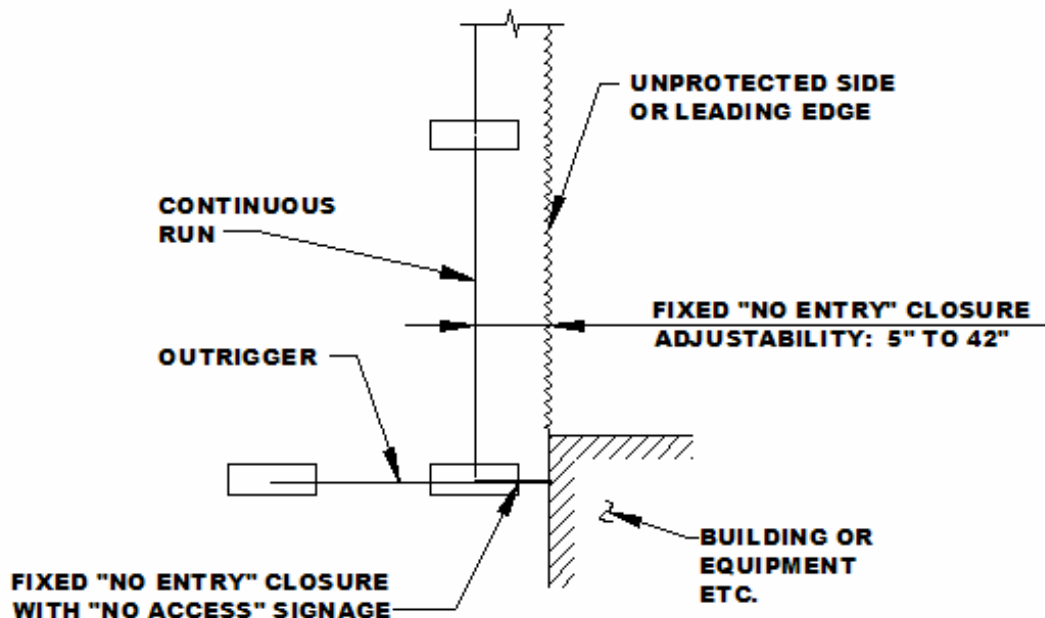
SWING GATE AT ROOF LADDER ACCESS



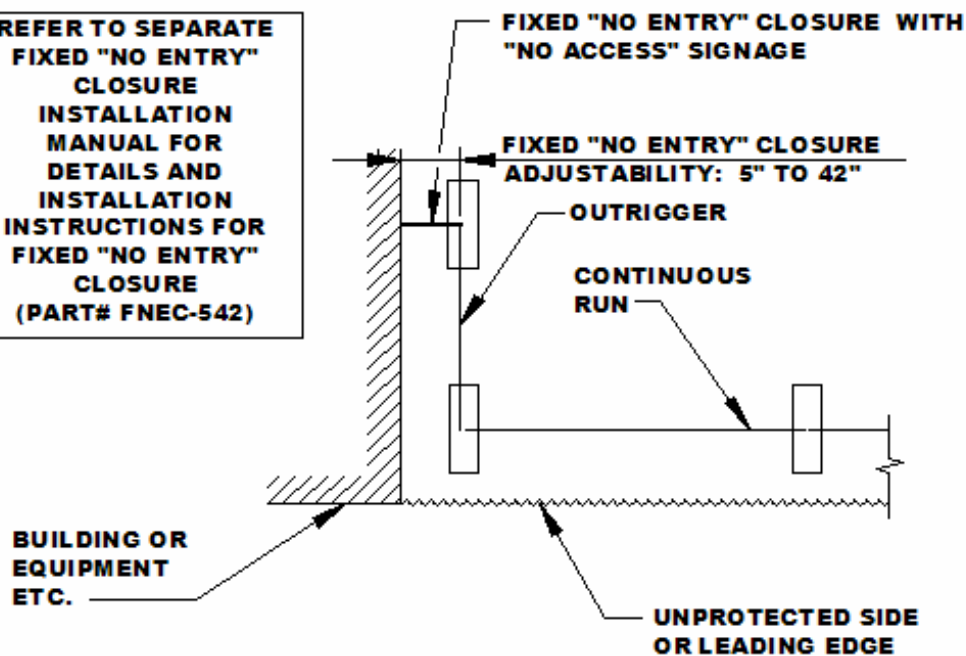
SWING GATE AT ROOF HATCH ACCESS

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FIXED "NO ENTRY" Closure Accessory



REFER TO SEPARATE
FIXED "NO ENTRY"
CLOSURE
INSTALLATION
MANUAL FOR
DETAILS AND
INSTALLATION
INSTRUCTIONS FOR
FIXED "NO ENTRY"
CLOSURE
(PART# FNEC-542)



FIXED "NO ENTRY" CLOSURE PLAN

PART #: FNEC-542
(INCLUDES SIGNAGE AND MATERIAL
FOR 42"x42" CLOSURE)

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PGR PRODUCT SPECIFICATIONS Summary Sheet

Part Number	Part and Description	Overall Dimensions	Weight (lbs)	Material	Coating
7900000	PGR-6 Guard Rail w/(1) BY2Y5	6'-0"x3'- 6"x1.7"	93	Steel	Powder Coat
7900001	PGR-8 Guard Rail w/(1) BY2Y5	8'-0"x3'- 6"x1.7"	100	Steel	Powder Coat
7900002	PGR-10 Guard Rail w/(1) BY2Y5	10'-0"x3'- 6"x1.7"	107	Steel	Powder Coat
7900004	BY2Y5 Base Plate	30"x10"x.64"	59	Steel	Powder Coat
7900010	PGR-6 Guard Rail	6'-0"x3'- 6"x1.7"	34	Steel	Powder Coat
7900011	PGR-8 Guard Rail	8'-0"x3'- 6"x1.7"	41	Steel	Powder Coat
7900012	PGR-10 Guard Rail	10'-0"x3'- 6"x1.7"	48	Steel	Powder Coat
7900020	TB- 6L/M/M2/R Metal Toe Board	6'-0"x4"x1.5"	9	Galvanealled Steel	Galvanealled or Powder Coat
7900013					
7900014					
7900019					
7900022	TB- 8L/M/M2/R Metal Toe Board	8'-0"x4"x1.5"	11	Galvanealled Steel	Galvanealled or Powder Coat
7900015					
7900016					
7900021					
7900024	TB- 10L/M/M2/R Metal Toe Board	10'-0"x4"x1.5"	14	Galvanealled Steel	Galvanealled or Powder Coat
7900017					
7900018					
7900023					

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PGR ACCESSORY SPECIFICATIONS Summary Sheet

AF-L	AF-L Wood Toe- Board Assembly	6'-0"x4"x1.5"	2	Galvanealled Steel	
AF-S	AF-S Wood Toe- Board Assembly	6'-0"x4"x1.5"	2	Galvanealled Steel	
7900005	SPF166 Splice Fitting Kit (Two Fitting)	4"x2"	8	Steel	Galvanized plus Powder Coat
7900025	TBPL4 ToeBoard Splice Kit	4"x4"	5	Galvanealled Steel	Galvanealled or Powder Coat
7900006	CT1912 Clamp-On Instruction Tube	2"x12"	2	Steel	Powder Coat
SG233816Y SG233820Y SG2338S20Y	Self Closing Safety Gate (Specify: Left or Right Swing)	21"x23"to 38"	21	Steel	Powder Coat
FNEC-542	Fixed "No Entry" Closure	42"x42"	18	Steel	Powder Coat
EFGA-48	Extended Fixed Guard Attachment	48"x23"	15	Steel	Powder Coat

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