



COMPLETE FIRE SPRINKLER SYSTEMS FROM DESIGN
CONSULTATION THROUGH FINISHED INSTALLATION

City of Aurora
15151 E. Alameda Pkwy
Aurora, CO 80012
October 12th, 2020

Attn: Jeff Gorman

Subject: Scope of Work Letter

Per the requirements of the Aurora Building Division, *Freedom Fire Protection, LLC* is submitting the following scope of letter for *1411 South Potomac* located in the City of Aurora in order to receive a fire sprinkler permit. The scope of work is as follows:

Project Name: Advanced Urology

Project Address: 1411 South Potomac, Ste; 210, Aurora, CO 80012

Project Scope: Add 2 standard spray pendent fire sprinklers to the new offices adjacent to the stairwell. Please see attached drawing for location in the building. All new sprinklers shall be installed in accordance with NFPA 13 2013 for a light hazard occupancy.

Valuation of Job: \$1,131.00

All work will be performed in accordance with the 2013 Edition of NFPA 13 and we will contact the Aurora Building Division for a rough and final inspection. I understand that I must pay for and pick up the issued permit before I call for this inspection. If you have any questions regarding this project please feel free to contact me at (303) 827-2060.

Sincerely,

Paul Morison
Freedom Fire Protection, LLC



City of Aurora Building Division
Counter Permit intake by: **JLG**
Date: **Oct 14, 2020**
RSN: **1494253**
Permit: **2020-1879574-CT**

2015 INTERNATIONAL CODES & 2020 NEC Scope of permit to be field

TPS

TENANT
PLANNING
SERVICES
INCORPORATED

1660 Lincoln St, Ste. 100
Denver, Colorado 80264
(303) 861-4800
fax (303) 861-1621
www.TPS.design

1411 S. Potomac

1411 South Potomac
Aurora, CO 80012
Suite 210

Advanced Urology
Expansion

Dates of Record

Project Start Date: 27 August 2019

Issued On Issued For
31 Jul 2020 Tenant Review &
Approval: and
Construction

Sheet
Contents

Construction Plan, Door
Schedule, Partition Details

Project # 1411 S. Potomac
426008.01 GBS

Designed by
JWMH

Drawn by
GBS

A1.0

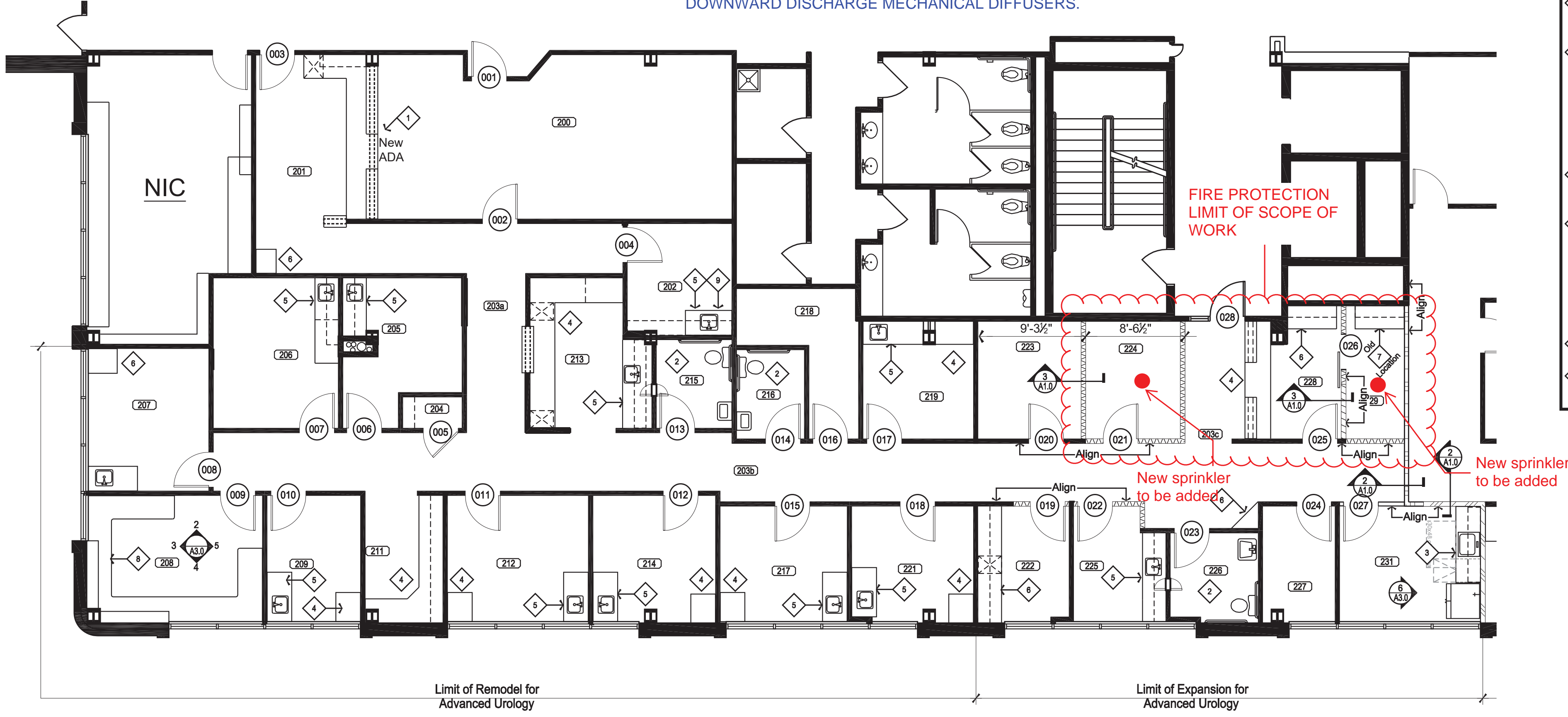
GENERAL NOTES:

- THIS IS A TENANT FINISH TO THE EXISTING WET PIPE SPRINKLER SYSTEM AT 1411 SOUTH POTOMAC, STE; 210, AURORA, CO 80012, CO CONSISTING OF THE ADVANCED UROLOGY TENANT IMPROVEMENT .
- NEW AND RELOCATED SPRINKLERS SHALL COMPLY WITH THE AURORA BUILDING DEPARTMENT AND NFPA 13 2013.
- THE SCOPE OF WORK SHALL CONSIST OF ADDING & RELOCATING NEW SEMI-RECESSED PENDENT SPRINKLERS DUE TO THE REMODEL OF THE EXISTING SPACE.
- THE EXISTING OVERHEAD SPRINKLER SYSTEM HAS BEEN DESIGNED FOR A .10/1.500 SQ.FT. DENSITY FOR A LIGHT HAZARD OCCUPANCY. THE NEW TENANT (LIGHT HAZARD) DOES NOT EXCEED THE DEMAND FOR THE EXISTING SPRINKLERS AND SHALL NOT NEGATIVELY IMPACT THE HYDRAULIC PERFORMANCE OF THE SPRINKLER SYSTEM.
- INSTALL PIPE HANGERS PER NFPA 13 2016 SECTION 9.2.2.1
- SPACING LEGEND:

MAXIMUM 225 SQ.FT. (15'x15'), SPRINKLER SPACING FOR STANDARD COVERAGE SPRINKLERS IN LIGHT HAZARD AREAS (RESTROOMS, WAITING AREAS, OFFICE, ETC...).
- NEW SPRINKLER FITTINGS AND PIPE ARE AS FOLLOWS:
THREADED ARMOVERS: 1" - BULLMOOSE SCH. 30 WITH THREADED FITTINGS.
- ALL FIRE ALARM WORK AND WIRING SHALL BE BY OTHERS.
- FREEDOM FIRE PROTECTION'S SCOPE OF WORK SHALL BEGIN AT THE EXISTING FIRE SPRINKLER PIPING IN THE TENANT SPACE.
- ALL PENDENT SPRINKLERS TO BE LOCATED A MINIMUM OF 1'-0" FROM ALL DOWNWARD DISCHARGE MECHANICAL DIFFUSERS.

Digitally signed by Paul Morison
DN: c=US,
ou=Freedom Fire Protection, o=Freedom Fire Protection, ou=Paul Morison
Date: 2020.10.12 15:10:38-0600

Paul Morison
NICET LEVEL III #109398
EXPIRES: 9/1/2021

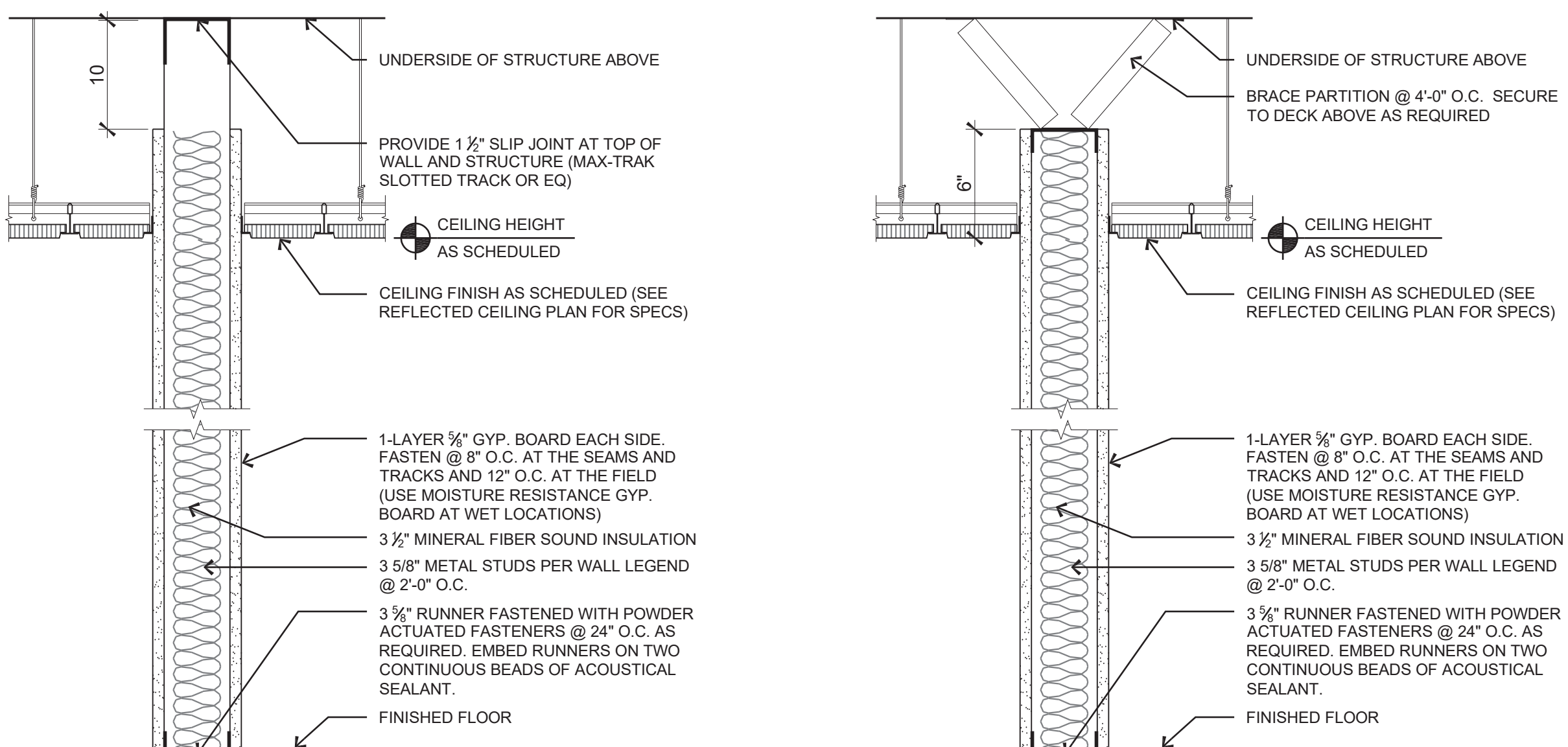


1 Construction Plan

Suite 210

Scale: 1/8" = 1'-0"

North



2 Partition: Interior

Below Deck - Sound

Scale: 1 1/2" = 1'-0"

3 Partition: Interior

Above Ceiling - Sound

Scale: 1 1/2" = 1'-0"

Wall Legend

EXISTING PARTITION to remain.
EXISTING PARTIAL HEIGHT PARTITION (Shown underneath a millwork surface) to remain.
EXISTING PARTITION to BE REWORKED as a Demising Partition: (See below)
NEW DEMISING PARTITION. Non-rated assembly. 20 gauge 3-5/8" metal studs at 24" o.c. floor to structure above with 5/8" gypsum board floor to 10" below structure above (for return air transfer) and 3-5/8" fiberglass sound attenuation batts floor to finished ceiling height. Match Building Standard.
EXISTING PARTITION to BE REWORKED as a Sound Attenuated Partition: (See below)
NEW SOUND ATTENUATED PARTITION. Non-rated assembly. 25 gauge, 3-5/8" metal studs at 24" o.c. with 5/8" gypsum board each side and 3-5/8" fiberglass sound attenuation batts floor to 6" above finished ceiling. Match Building Standard.

Re: 2/A1.0
Re: 2/A1.0
Re: 3/A1.0
Re: 3/A1.0

Sheet A1.0 Plan Notes

1. Refer to General Notes for additional requirements.

2. DOOR ASSEMBLIES:
2.1. All assemblies shown on the drawings and not referenced to the Door Schedule are existing to remain (unless noted otherwise).
2.2. Inspect, make repairs to, and clean ALL existing assemblies and components to like new conditions. Re-use existing door assemblies and/or components where possible.
2.3. Provide new door assemblies and/or components as specified on the drawings. Door frames shall be securely fastened in place and the entire assembly shall be installed plumb and square with maximum diagonal distortion of 1/8". Undercut doors as needed for specified floor coverings.

3. INSULATION AND ATTENUATION: Provide insulation or sound attenuation in walls and above suspended ceiling if indicated on the drawings. Specifications shall conform to the following:
3.1. Sound attenuation in walls shall be unfaced fiberglass, 16" to 24" wide to correspond with stud width.
3.2. Thermal insulation in walls shall be Kraft faced fiberglass, 16" to 24" wide, with R-13 thermal value.
3.3. Sound attenuation in ceilings shall be foil faced fiberglass, 24" wide, acceptable for use in return air plenums.

4. BACKING/BLOCKING: Provide solid wood blocking in partitions for plumbing fixtures, door stops, wall mounted equipment (including televisions), millwork, etc., and as indicated on the drawings. Plywood backing may be used for shelving. Framing material for blocking, nailers, etc. shall be Western Douglas Fir or Hemlock.

5. PARTITIONS: Conform to the following:
5.1. Partitions shall be erected plumb and true.
5.2. Drywall partitions and joints shall be taped and finished smooth and prepared for specified finish treatment. Coat vertical joints from floor to ceiling for additional substrate to the base trim.
5.3. Skim coat existing partitions as needed.
5.4. All exposed corners shall be fitted with metal corner bead and top of walls at underside of suspended ceilings shall be straight and true.
5.5. Provide "kickers" or metal stud support from the top of the partition to the underside of structure above for long runs and at all jams of openings for door assemblies and at any glazed opening within 36" of the strike side of swinging doors.

6. EXISTING LIFE SAFETY SYSTEMS: Modify (fire alarm/smoke detection) on a DESIGN-BUILD basis. Conform to these drawings and documents and as required for obtaining a building permit. Refer to General Notes.

Door Schedule ¹												
Mark	State ²	DOOR				FRAME			HARDWARE		Remarks	Mark
		Type	Leaf Size	Material	Finish	FRR ³	Material	Finish	FRR ³ Latch Func.	Additional Components		
001	E	Fre	3'-0" x 6'-8" x 1 3/4"	S.C.Wood	Stained	None	H.M.	Paint	None	2 Cl	ETR	001
002	E	FI	3'-0" x 6'-8" x 1 3/4"	S.C.Wood	Stained	None	Timely	Prefinished	None	1 Cl, Cyp	ETR	002
003	E	FI	3'-0" x 6'-8" x 1 3/4"	S.C.Wood	Stained	None	H.M.	Paint	None	2 Cl, Cyp	ETR	003
004	E	FI	3'-0" x 6'-8" x 1 3/4"	S.C.Wood	Stained	None	Timely	Prefinished	None	1 --	ETR	004
005	E	FI	3'-0" x 6'-8" x 1 3/4"	S.C.Wood	Stained	None	Timely	Prefinished	None	2 Gr	ETR	005
006	E	FI	3'-0" x 6'-8" x 1 3/4"	S.C.Wood	Stained	None	Timely	Prefinished	None	1 --	ETR	006
007	E	FI	3'-0" x 6'-8" x 1 3/4"	S.C.Wood	Stained	None	Timely	Prefinished	None	1 --	ETR	007
008	E	FI	3'-0" x 6'-8" x 1 3/4"	S.C.Wood	Stained	None	Timely	Prefinished	None	1 --	ETR	008
009	E	FI	3'-0" x 6'-8" x 1 3/4"	S.C.Wood	Stained	None	Timely	Prefinished	None	--	ETR	009
009	E	FI	3'-0" x 6'-8" x 1 3/4"	S.C.Wood	Stained	None	Timely	Prefinished	None	--	ETR	009
010	E	FI	3'-0" x 6'-8" x 1 3/4"	S.C.Wood	Stained	None	Timely	Prefinished	None	1 --	ETR	010
011	E	FI	3'-0" x 6'-8" x 1 3/4"	S.C.Wood	Stained	None	Timely	Prefinished	None	1 --	ETR	011
012	E	FI	3'-0" x 6'-8" x 1 3/4"	S.C.Wood	Stained	None	Timely	Prefinished	None	1 --	ETR	012
013	E	FI	3'-0" x 6'-8" x 1 3/4"	S.C.Wood	Stained	None	Timely	Prefinished	None	3 --	ETR	013
014	E	FI	3'-0" x 6'-8" x 1 3/4"	S.C.Wood	Stained	None	Timely	Prefinished	None	3 --	ETR	014
015	E	FI	3'-0" x 6'-8" x 1 3/4"	S.C.Wood	Stained	None	Timely	Prefinished	None	1 --	ETR	015
016	E	FI	3'-0" x 6'-8" x 1 3/4"	S.C.Wood	Stained	None	Timely	Prefinished	None	1 --	ETR	016
017	E	FI	3'-0" x 6'-8" x 1 3/4"	S.C.Wood	Stained	None	Timely	Prefinished	None	1 --	ETR	017
018	E	FI	3'-0" x 6'-8" x 1 3/4"	S.C.Wood	Stained	None	Timely	Prefinished	None	1 --	ETR	018
019	N/R	FI	3'-0" x 6'-8" x 1 3/4"	S.C.Wood	Stained	None	Timely	Prefinished	None	1 --	--	019
020	N/R	FI	3'-0" x 6'-8" x 1 3/4"	S.C.Wood	Stained	None	Timely	Prefinished	None	1 --	--	020
021	N/R	FI	3'-0" x 6'-8" x 1 3/4"	S.C.Wood	Stained	None	Timely	Prefinished	None	1 --	--	021
022	N/R	FI	3'-0" x 6'-8" x 1 3/4"	S.C.Wood	Stained	None	Timely	Prefinished	None	1 --	--	022
023	E	FI	3'-0" x 6'-8" x 1 3/4"	S.C.Wood	Stained	None	Timely	Prefinished	None	3 --	ETR	023
024	E	FI	3'-0" x 6'-8" x 1 3/4"	S.C.Wood	Stained	None	Timely	Prefinished	None	1 --	ETR	024
025	E	FI	3'-0" x 6'-8" x 1 3/4"	S.C.Wood	Stained	None	Timely	Prefinished	None	1 --	ETR	025
026	N	Ba	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Gyp. Bd.	Paint	None	4 Barn	--	026
027	N/R	FI	3'-0" x 6'-8" x 1 3/4"	S.C.Wood	Stained	None	Timely	Prefinished	None	1 --	--	027
028	E	Fre	3'-0" x 6'-8" x 1 3/4"	S.C.Wood	Stained	None	H.M.	Paint	None	2 Cl	ETR	028

¹ The General Contractor shall field verify that all door and hardware specifications match Building Standards (unless noted otherwise) and coordinate ANY AND ALL discrepancies directly with the TPS representative (as indicated on the cover sheet Project Team list) prior to proceeding. This includes, but is not limited to, species, stain, finish, style, function, part/ product numbers, and design specifications as well as extent of inclusions / exclusions to component lists and the like. Opening force for all doors shall comply with IBC. Threshold: Maximum heights for thresholds shall comply with IBC. Glass: All full height glass doors and glass inserts shall comply with ANSI 404.2.9 and IBC.

² State:
E = Existing to remain. Assure proper working condition.
N = Provide New Door, Frame or Hardware in its entirety.

³ Rating: Minimum Fire-resistive Rating (per UL) required in minutes

N/R = Provide New OR Relocate salvaged Door, Frame or Hardware if available. Determine available components in field.

Door, Frame, and Hardware Specifications

Wood Doors:
Wood veneer interior doors shall be 1 3/4" thick, 5-ply particle board core complying with CS 236, Type I, Density C, Class 1, and with AWI standard PC-5 construction, NWWDA I.S. 1.6 Type II adhesive, solid core, flush slab style.
(The General Contractor shall confirm the Building Standard specifications and match accordingly.)
Door Frames:
Entry/Exit: Hollow Metal
Interior: Prefinished Timely
(The General Contractor shall confirm the Building Standard specifications and match accordingly.)
Hardware:
Hardware shall meet Building Standard specifications, with finish to match existing.
Standard hardware to be included with every door in the Door Schedule shall include:
- Latchset: Lever Handle at interior and exterior (UNO), with 1" minimum throws.
- Hinges
- Dust Proof Strike Plate
- Silencers
- Wall or Door Stop

The General Contractor shall provide separate cost to label all keys (locks). Coordinate with Tenant and Building Management on labeling numbers.

Latch Function Legend

Hardware shall meet Building Standard specifications.
1 Passage
2 Keyed Lockset
3 Privacy
4 Wire Pulls

Additional Hardware Components Legend

Hardware shall meet Building Standard specifications, with finish to match existing.
Barn Surface Sliding ("Barn") Door Assembly Hardware:
Cl Closer, Automatic Door (1 per leaf)
Cyp Cypher lock
Gr Grille: J&J Prefinished register door transfer grille model AL-700A. Center in door with bottom at 9" AFF.

Door Types

Type "FI" Standard Flush Swinging Door
Type "Ba" Barn Door Assembly
Type "FI" French Swinging Door

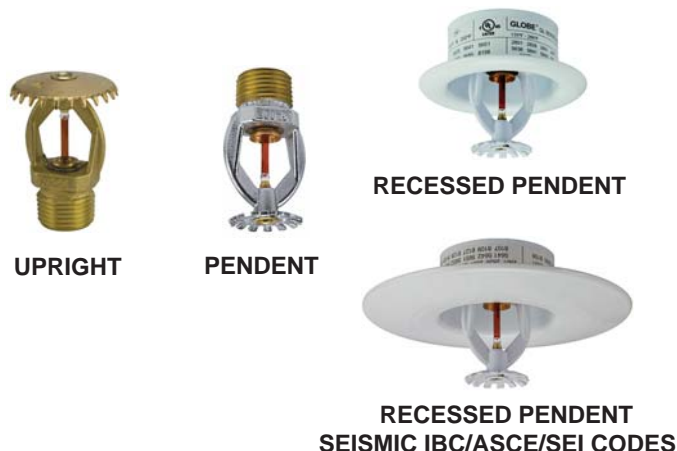
1411 S. Potomac • Advanced Urology



SERIES GL-QR STANDARD COVERAGE, QUICK RESPONSE UPRIGHT, PENDENT & RECESSED PENDENT SPRINKLERS K-FACTOR: 2.8, 4.2, 5.6, 8.0

GENERAL DESCRIPTION

Globe Series GL-QR sprinklers are Listed Quick Response sprinklers which utilize a 3mm frangible glass bulb as the thermosensitive operating element. These sprinklers are available in upright, pendent, and recessed pendent orientations. They are Listed and Approved as Standard Coverage sprinklers and are to be installed in accordance with the guidelines of the appropriate Installation Standard being mandated by the AHJ (i.e. NFPA 13; FM 2-0). These sprinklers are available in various K-factors, temperatures and finishes as shown. Recessed escutcheons with either 1/2" or 3/4" vertical adjustment are available (See Approvals Tables for appropriate sprinkler/escutcheon combinations and Listings). Some pendent models are additionally available with a special "Seismic" escutcheon to meet the IBC-ASCE/SEI 7 requirements for use in seismic design categories C, D & E.



OPERATION

Upon exposure to heat such as from a fire, the fluid in the bulb expands, compressing the air bubble within the bulb. When the air bubble can no longer compress, the fluid expansion causes breakage of the glass bulb, resulting in release of the water seat assembly, and discharge of water from the sprinkler.

TECHNICAL DATA

SIN

- Upright: GL2815, GL4215, GL5615, GL8115, GL8118
- Pendent, Recessed Pendent: GL2801, GL4201, GL5601, GL8101, GL8106

Approvals

- cULus • FM • LPCB • CE
- See Approval Tables

Maximum Working Pressure

- 175 psi (12 bar)
- Factory tested to 500 psi (34 bar)

Minimum Operating Pressure

- 7 psi (48 kPa)

Temperature Rating

- See Approval Tables

Materials of Construction

- Frame - bronze • Deflector - brass • Screw - brass
- Lodgement Wire - stainless steel • Bulb seat - copper
- Spring - nickel alloy • Seal - teflon
- Bulb - glass with alcohol based solution, 3mm
- Escutcheon Assembly - carbon steel

FINISHES AND ACCESSORIES

Finishes

- Factory Bronze • Chrome • White Polyester
- Black Polyester - *special order*

Escutcheons

- Brass • Chrome • White Polyester • Black Polyester

Wrenches

- Standard • Recess • 1/2" NPT • 3/4" NPT

NOTE:

Corrosion resistant coatings, where applicable, are utilized to extend the life of copper alloy sprinklers beyond that which would otherwise be expected when exposed to corrosive atmospheres. Although corrosion resistant coated sprinklers have passed the standard corrosion tests of the applicable approval agencies, the testing is not representative of all possible corrosive atmospheres. Consequently, it is recommended that the end user be consulted with respect to the suitability of these coatings for any given corrosive environment. The effects of ambient temperature, concentration of chemicals, humidity, and gas/chemical velocity, should be considered, as a minimum, along with the corrosive nature of the chemical to which the sprinklers will be exposed.

NOTE:

Users should refer to Globe's web site (www.globesprinkler.com) to ensure that the most recent technical literature is being utilized.

INSTALLATION

NOTICE

Do not install any bulb-type sprinkler if the bulb is cracked or there is loss of liquid from the bulb. Sprinklers should be tightened enough to obtain a leak-tight joint when water pressure is applied and/or hydrostatic test is performed. Sprinklers should not be overtightened as this can result in distortion and subsequent leakage. It is recommended not to exceed 14 ft.-lb. (19.0 Nm) torque for 1/2 inch NPT sprinkler threads; 20 ft.-lb. (26.8 Nm) to 3/4 inch NPT threads.

- Step1.** Sprinklers must be properly oriented.
- Step2.** With pipe thread sealant applied to the pipe threads, hand tighten the sprinkler into the sprinkler fitting. *Note: Do not grasp the sprinkler by the deflector.*
- Step3.** Wrench-tighten the sprinkler using only the appropriate wrench. Wrenches are only to be applied to the sprinkler wrench flats or wrench hex as applicable. *Note: Do not apply wrench to frame arms.*



FIGURE 1: STANDARD SPRINKLER WRENCH

1/2" NPT P/N 325390
3/4" NPT P/N 312366



FIGURE 2: RECESSED SPRINKLER WRENCH

1/2" NPT P/N 325391
3/4" NPT P/N 325401

CARE AND MAINTENANCE

Prior to installation, it is important to read and follow the "Sprinkler Caution" sheet (GFS-840) included within each box of sprinklers. This sheet is available on Globe's web site (www.globesprinkler.com).

Store sprinklers in a cool, dry place. Exposure to extreme heat will damage the thermal sensing element, possibly resulting in premature activation. Avoid direct sunlight.

Replace any sprinkler that shows any corrosion, damage, or loss of liquid from the glass bulb.

Do not attempt to paint or alter the sprinkler's coating in any manner after leaving the manufacturing plant.

Do not attach wiring, ropes, decorations or fixtures to a sprinkler.

Absence of an escutcheon, used to cover a ceiling hole, may delay sprinkler operation in a fire situation.

It is the owner's responsibility for inspection, testing and maintenance of the fire sprinkler system with all components and devices in accordance with the National Fire Protection Association Pamphlet 25 as well as any other requirements as set forth by the local Authority Having Jurisdiction (AHJ).

TABLE A: UPRIGHT SPRINKLER APPROVALS Sheet 5 of 25

SIN	GL2815	GL4215 ⁽¹⁾	GL5615 ⁽¹⁾	GL8115 *	GL8118 ⁽¹⁾
ORIENTATION	UPRIGHT	UPRIGHT	UPRIGHT	UPRIGHT	UPRIGHT
K-FACTOR	2.8 (40 metric)	4.2 (60 metric)	5.6 (80 metric)	8.0 (115 metric)	8.0 (115 metric)
NPT	1/2" (15mm)	1/2" (15mm)	1/2" (15mm)	1/2" (15mm)	3/4" (20mm)
HAZARD	L.H.	L.H.	L.H./O.H.	L.H./O.H.	L.H./O.H.
cULus Listed	135°F (57°C) 155°F (68°C) 175°F (79°C) 200°F (93°C) 286°F (141°C)	135°F (57°C) 155°F (68°C) 175°F (79°C) 200°F (93°C) 286°F (141°C)	135°F (57°C) 155°F (68°C) 175°F (79°C) 200°F (93°C) 286°F (141°C)	135°F (57°C) 155°F (68°C) 175°F (79°C) 200°F (93°C) 286°F (141°C)	135°F (57°C) 155°F (68°C) 175°F (79°C) 200°F (93°C) 286°F (141°C)
FM Approved	NA	NA	135°F (57°C) 155°F (68°C) 175°F (79°C) 200°F (93°C) 286°F (141°C)	NA	135°F (57°C) 155°F (68°C) 175°F (79°C) 200°F (93°C) 286°F (141°C)
LPCB Ref. No. 147c/05	NA	NA	135°F (57°C) 155°F (68°C) 175°F (79°C) 200°F (93°C) 286°F (141°C)	NA	135°F (57°C) 155°F (68°C) 175°F (79°C) 200°F (93°C) 286°F (141°C)
CE	NA	NA	135°F (57°C) 155°F (68°C) 175°F (79°C) 200°F (93°C) 286°F (141°C)	NA	135°F (57°C) 155°F (68°C) 175°F (79°C) 200°F (93°C) 286°F (141°C)

* FOR RETROFIT USE ONLY

(1) cULus LISTED CORROSION RESISTANT WITH POLYESTER COATING.

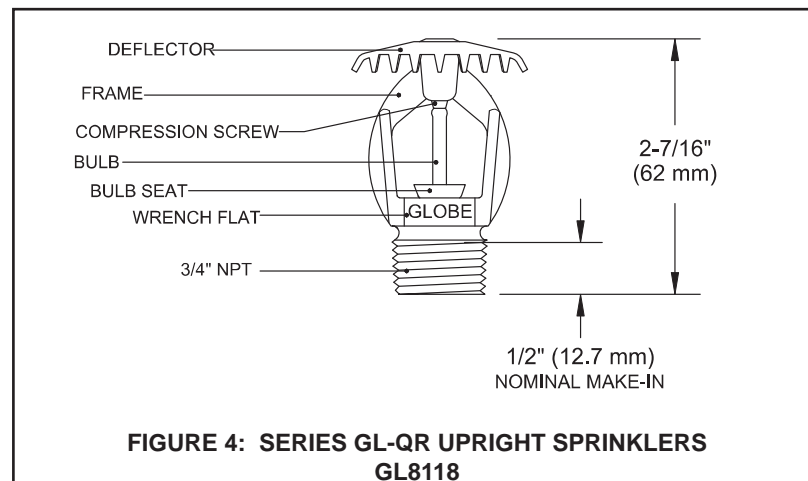
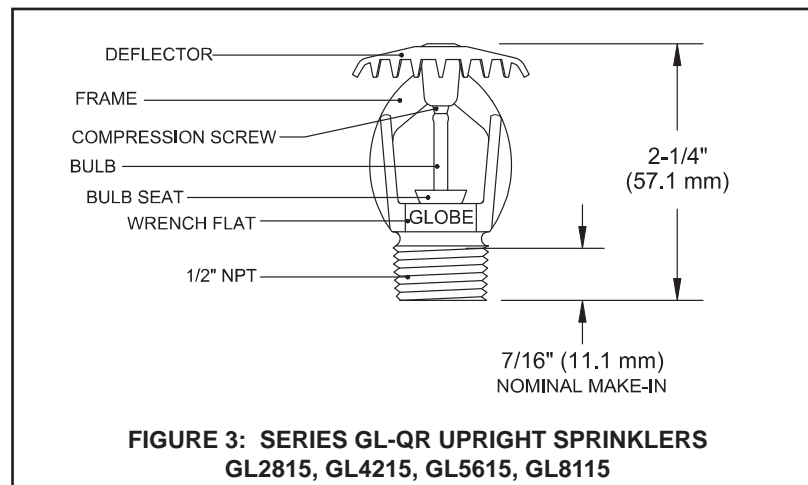


TABLE B: PENDENT SPRINKLER APPROVALS Sheet 6 of 25

SIN	GL2801	GL4201 ⁽¹⁾	GL5601 ⁽¹⁾	GL8101 *	GL8106 ⁽¹⁾
ORIENTATION	PENDENT	PENDENT	PENDENT	PENDENT	PENDENT
K-FACTOR	2.8 (40 metric)	4.2 (60 metric)	5.6 (80 metric)	8.0 (115 metric)	8.0 (115 metric)
NPT	1/2" (15mm)	1/2" (15mm)	1/2" (15mm)	1/2" (15mm)	3/4" (20mm)
HAZARD	L.H.	L.H.	L.H./O.H.	L.H./O.H.	L.H./O.H.
cULus Listed	135°F (57°C) 155°F (68°C) 175°F (79°C) 200°F (93°C) 286°F (141°C)	135°F (57°C) 155°F (68°C) 175°F (79°C) 200°F (93°C) 286°F (141°C)	135°F (57°C) 155°F (68°C) 175°F (79°C) 200°F (93°C) 286°F (141°C)	135°F (57°C) 155°F (68°C) 175°F (79°C) 200°F (93°C) 286°F (141°C)	135°F (57°C) 155°F (68°C) 175°F (79°C) 200°F (93°C) 286°F (141°C)
FM Approved	NA	NA	135°F (57°C) 155°F (68°C) 175°F (79°C) 200°F (93°C) 286°F (141°C)	NA	135°F (57°C) 155°F (68°C) 175°F (79°C) 200°F (93°C) 286°F (141°C)
LPCB Ref. No. 147c/05	NA	NA	135°F (57°C) 155°F (68°C) 175°F (79°C) 200°F (93°C) 286°F (141°C)	NA	135°F (57°C) 155°F (68°C) 175°F (79°C) 200°F (93°C) 286°F (141°C)
CE	NA	NA	135°F (57°C) 155°F (68°C) 175°F (79°C) 200°F (93°C) 286°F (141°C)	NA	135°F (57°C) 155°F (68°C) 175°F (79°C) 200°F (93°C) 286°F (141°C)

* FOR RETROFIT USE ONLY

(1) cULus LISTED CORROSION RESISTANT WITH POLYESTER COATING.

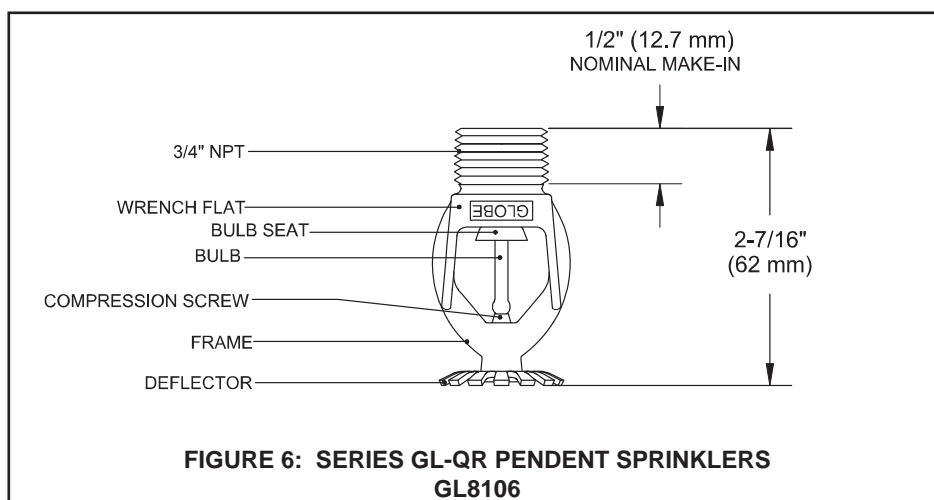
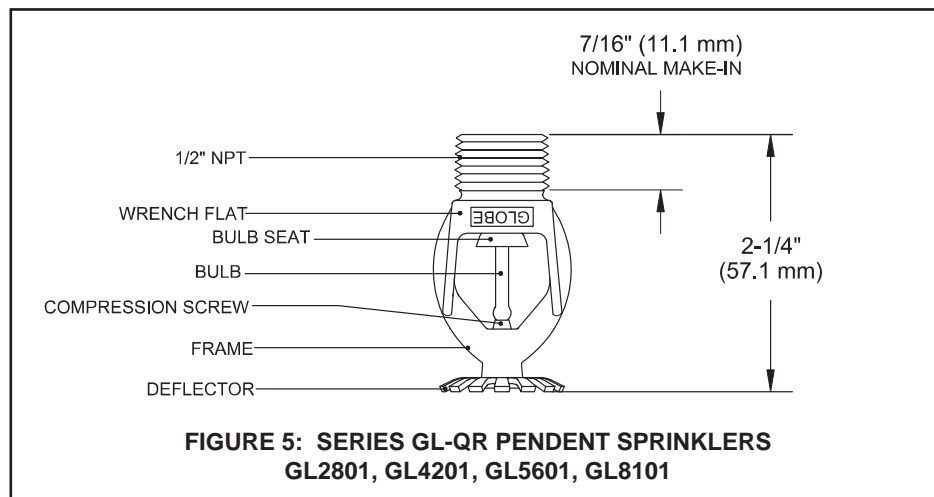


TABLE C: RECESSED PENDENT SPRINKLER APPROVALS

SIN	GL2801 (2)	GL4201 (1) (2)	GL5601 (1) (2)	GL8101 * (1) (2)	GL8106 (1) (2) (3)
ORIENTATION	RECESSED PEND.	RECESSED PEND.	RECESSED PEND.	RECESSED PEND.	RECESSED PEND.
K-FACTOR	2.8 (40 metric)	4.2 (60 metric)	5.6 (80 metric)	8.0 (115 metric)	8.0 (115 metric)
NPT	1/2"	1/2"	1/2"	1/2"	3/4"
HAZARD	L.H.	L.H.	L.H./O.H.	L.H./O.H.	L.H./O.H.
cULus Listed	135°F (57°C) 155°F (68°C) 175°F (79°C) 200°F (93°C) 286°F (141°C)	135°F (57°C) 155°F (68°C) 175°F (79°C) 200°F (93°C) 286°F (141°C)	135°F (57°C) 155°F (68°C) 175°F (79°C) 200°F (93°C) 286°F (141°C)	135°F (57°C) 155°F (68°C) 175°F (79°C) 200°F (93°C) 286°F (141°C)	135°F (57°C) 155°F (68°C) 175°F (79°C) 200°F (93°C) 286°F (141°C)
FM Approved Note: 1/2" Adjustable Recessed Escutcheon only	NA	NA	135°F (57°C) 155°F (68°C) 175°F (79°C) 200°F (93°C)	NA	135°F (57°C) 155°F (68°C) 175°F (79°C) 200°F (93°C)
LPCB Ref. No. 147c/05	NA	NA	135°F (57°C) 155°F (68°C) 175°F (79°C) 200°F (93°C) 286°F (141°C)	NA	135°F (57°C) 155°F (68°C) 175°F (79°C) 200°F (93°C) 286°F (141°C)
CE	NA	NA	135°F (57°C) 155°F (68°C) 175°F (79°C) 200°F (93°C)	NA	135°F (57°C) 155°F (68°C) 175°F (79°C) 200°F (93°C)

* FOR RETROFIT USE ONLY

(1) cULus LISTED CORROSION RESISTANT SPRINKLER WITH POLYESTER COATING

(2) cULus / LPCB /CE APPROVED WITH 1/2" ADJUSTABLE AND 3/4" ADJUSTABLE RECESSED ESCUTCHEON

(3) FM APPROVED FOR BRASS FINISH ONLY

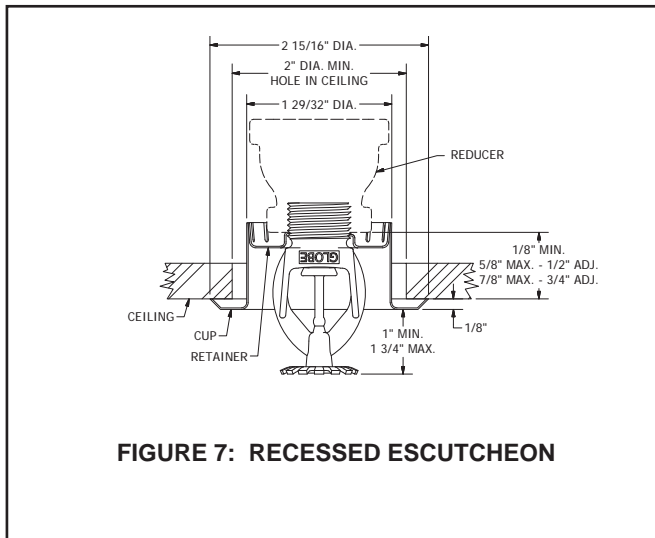


FIGURE 7: RECESSED ESCUTCHEON

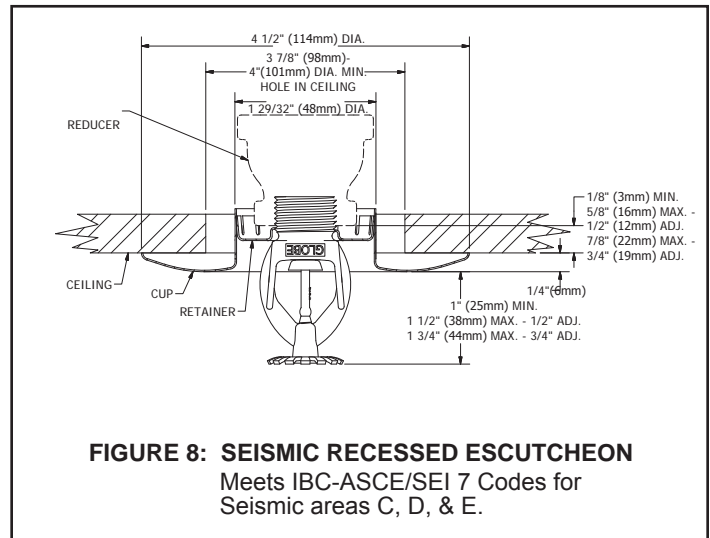


FIGURE 8: SEISMIC RECESSED ESCUTCHEON
 Meets IBC-ASCE/SEI 7 Codes for
 Seismic areas C, D, & E.

TABLE D: STANDARD ESCUTCHEONS

3/4" ADJUSTABLE FRICTION FIT RECESSED ESCUTCHEON		
FINISH	1/2" NPT	3/4" NPT
Chrome	325422	325423
Brass	325424	325420
White Polyester	325426-W	325427-W
Black Polyester	325426-B	325427-B
Stainless Steel	326140	NA
1/2" ADJUSTABLE FRICTION FIT RECESSED ESCUTCHEON		
FINISH	1/2" NPT	3/4" NPT
Chrome	332071	326040
Brass	332072	326041
White Polyester	332073-W	326042-W
Black Polyester	332073-B	326042-B

TABLE E: SEISMIC ESCUTCHEONS

3/4" ADJUSTABLE FRICTION FIT RECESSED ESCUTCHEON (SEISMIC)		
FINISH	1/2" NPT	3/4" NPT
Chrome	326170	326177
White	326172-W	326178-W
1/2" ADJUSTABLE FRICTION FIT RECESSED ESCUTCHEON (SEISMIC)		
FINISH	1/2" NPT	3/4" NPT
Chrome	326201	326208
White	326203-W	326210-W

TABLE F: PART NUMBER SELECTION

PART NUMBER
 SIN + TEMPERATURE + FINISH

SIN		TEMPERATURE		FINISH	
GL2815	2815	135	135°F (57°C)	01	BRONZE
GL4215	4215	155	155°F (68°C)	02	CHROME
GL5615	5615	175	175°F (79°C)	03	WHITE POLYESTER
GL8115	8115	200	200°F (93°C)	04	BLACK POLYESTER
GL8118	8118	286	286°F (141°C)		
GL2801	2801				
GL4201	4201				
GL5601	5601				
GL8101	8101				
GL8106	8106				

*Note: All combinations may not be available.
 Refer to Listing/Approval Tables for available listed combinations.*

ORDERING INFORMATION

SPECIFY:

- SPRINKLER
 - Quantity • SIN • Orientation • Orifice • NPT • Temperature Rating • Finish • Part Number (See TABLE F)
- ESCUTCHEON
 - Quantity • Finish • Part Number (See TABLE D & TABLE E)
- WRENCH
 - Quantity • Part Number

1/2" NPT Standard325390
 3/4" NPT Standard312366
 1/2" NPT Recess325391
 3/4" NPT Recess325401

GLOBE® PRODUCT WARRANTY

Globe agrees to repair or replace any of its manufactured products found to be defective in material or workmanship for a period of one year from date of shipment.

For specific details of our warranty please refer to Price List Terms and Conditions of Sale (Our Price List).



45° ELBOW**Malleable Iron Screwed Fittings (Class 300)****MATERIAL SPECIFICATIONS**

Dimensional: Fittings: ASME B16.3

Unions: ASME B 16.39

Bushings/Plugs: ASME B 16.14

Material: ASTM A-197

Galvanizing: ASTM A-153 (Hot Dip Galvanizing)

Threading: * ASME B 1.20.1

Pressure Rating: Fittings: ASME B 16.3

Unions: ASME B 16.39

Bushings/Plugs: ASME B 16.14

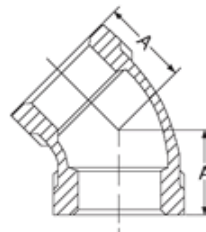
Pressure Testing: All malleable iron fittings are tested for through wall porosity using an air under water process.

Agency Approvals: All malleable iron fittings and unions are UL Listed and FM Approved.

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For Listing/Approval Details
and Limitations visit our Web Site
www.anvilintl.com or contact
an Anvil® Representative.

45° ELBOW		
Size	A	Weight
in	in	lbs
1/4	0.81	0.19
1/2	0.88	1.28
3/4	1.00	0.43
1	1.13	0.66
1 1/4	1.31	1.00
1 1/2	1.50	1.70
2	1.69	2.10
2 1/2	2.00	3.40
3	2.25	5.50
4	2.50	8.10
4	2.81	13.00



90° ELBOW



Malleable Iron Screwed Fittings (Class 300)



MATERIAL SPECIFICATIONS

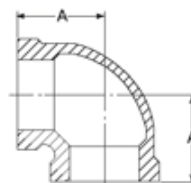
Dimensional: Fittings: ASME B16.3
 Unions: ASME B 16.39
 Bushings/Plugs: ASME B 16.14
 Material: ASTM A-197
 Galvanizing: ASTM A-153 (Hot Dip Galvanizing)
 Threading: * ASME B 1.20.1
 Pressure Rating: Fittings: ASME B 16.3
 Unions: ASME B 16.39
 Bushings/Plugs: ASME B 16.14
 Pressure Testing: All malleable iron fittings are tested for through wall porosity using an air under water process.
 Agency Approvals: All malleable iron fittings and unions are UL Listed and FM Approved.



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 an Anvil® Representative.

90° ELBOW		
Size	A	Weight
in	in	lbs
1/4	0.94	0.20
1/2	1.06	0.29
3/4	1.25	0.47
1	1.44	0.66
1 1/4	1.63	1.20
1 1/2	1.94	1.90
2	2.13	2.50
2 1/2	2.50	4.20
3	2.94	5.30
4	3.38	9.70
6	4.50	16.00



90° REDUCING ELBOW



Malleable Iron Screwed Fittings (Class 300)



MATERIAL SPECIFICATIONS

Dimensional: Fittings: ASME B16.3

Unions: ASME B 16.39

Bushings/Plugs: ASME B 16.14

Material: ASTM A-197

Galvanizing: ASTM A-153 (Hot Dip Galvanizing)

Threading: * ASME B 1.20.1

Pressure Rating: Fittings: ASME B 16.3

Unions: ASME B 16.39

Bushings/Plugs: ASME B 16.14

Pressure Testing: All malleable iron fittings are tested for through wall porosity using an air under water process.

Agency Approvals: All malleable iron fittings and unions are UL Listed and FM Approved.

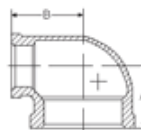


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 and Limitations visit our Web Site
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 an Anvil® Representative.

90° REDUCING ELBOW

Size	A	B	Weight
in	in	in	lbs
1/2 x 3/4	1.19	1.19	0.41
1 x 3/4	1.50	1.56	1.00



CAP

Malleable Iron Screwed Fittings (Class 300)



MATERIAL SPECIFICATIONS

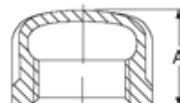
Dimensional: Fittings: ASME B16.3
 Unions: ASME B 16.39
 Bushings/Plugs: ASME B 16.14
 Material: ASTM A-197
 Galvanizing: ASTM A-153 (Hot Dip Galvanizing)
 Threading: * ASME B 1.20.1
 Pressure Rating: Fittings: ASME B 16.3
 Unions: ASME B 16.39
 Bushings/Plugs: ASME B 16.14
 Pressure Testing: All malleable iron fittings are tested for through wall porosity using an air under water process.
 Agency Approvals: All malleable iron fittings and unions are UL Listed and FM Approved.



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CAP		
Size	A	Weight
in	in	lbs
1/4	0.78	0.10
3/8	0.81	0.15
1/2	1.00	2.23
3/4	1.06	0.35
1	1.25	0.58
1 1/4	1.38	0.94
1 1/2	1.44	1.20
2	1.69	1.90
2 1/2	2.06	3.30
3	2.19	4.70



REDUCING COUPLINGS



Malleable Iron Screwed Fittings (Class 300)



MATERIAL SPECIFICATIONS

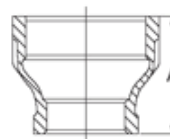
Dimensional: Fittings: ASME B16.3
 Unions: ASME B 16.39
 Bushings/Plugs: ASME B 16.14
 Material: ASTM A-197
 Galvanizing: ASTM A-153 (Hot Dip Galvanizing)
 Threading: * ASME B 1.20.1
 Pressure Rating: Fittings: ASME B 16.3
 Unions: ASME B 16.39
 Bushings/Plugs: ASME B 16.14
 Pressure Testing: All malleable iron fittings are tested for through wall porosity using an air under water process.
 Agency Approvals: All malleable iron fittings and unions are UL Listed and FM Approved.



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 an Anvil® Representative.

REDUCING COUPLINGS		
Size	A	Weight
in	in	lbs
1/2 x 1/4	1.44	0.21
1/2 x 3/8	1.69	0.31
1/2 x 1/2	1.69	0.34
3/4 x 3/8	1.75	0.47
3/4 x 1/2	1.75	0.50
1 x 1/2	2.00	0.71
1 x 3/4	2.00	0.79
1 1/4 x 1/2	2.38	1.10
1 1/4 x 3/4	2.38	1.20
1 1/4 x 1	2.38	1.30
1 1/4 x 1 1/2	2.69	1.50
1 1/2 x 3/4	2.69	1.60
1 1/2 x 1	2.69	1.60
1 1/2 x 1 1/4	2.69	1.80
2 x 1/2	3.19	2.40
2 x 3/4	3.19	2.40
2 x 1	3.19	2.50
2 x 1 1/4	3.19	2.70
2 x 1 1/2	3.19	2.70
2 1/2 x 1 1/2	3.69	4.10
2 1/2 x 2	3.69	4.30
3 x 2	4.06	5.80
3 x 2 1/2	4.06	6.50
4 x 3	4.38	10.00



REDUCING TEE



Malleable Iron Screwed Fittings (Class 300)



MATERIAL SPECIFICATIONS

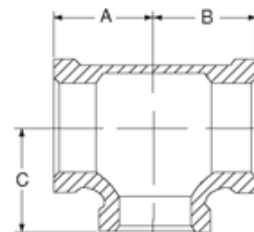
Dimensional: Fittings: ASME B16.3
 Unions: ASME B 16.39
 Bushings/Plugs: ASME B 16.14
 Material: ASTM A-197
 Galvanizing: ASTM A-153 (Hot Dip Galvanizing)
 Threading: * ASME B 1.20.1
 Pressure Rating: Fittings: ASME B 16.3
 Unions: ASME B 16.39
 Bushings/Plugs: ASME B 16.14
 Pressure Testing: All malleable iron fittings are tested for through wall porosity using an air under water process.
 Agency Approvals: All malleable iron fittings and unions are UL Listed and FM Approved.



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 and Limitations visit our Web Site
www.anvilintl.com or contact
 an Anvil® Representative.

REDUCING TEE						
Size			A	B	C	Weight
in			in	in	in	lbs
3/4	3/4	1/2	1.31	1.31	1.38	0.90
1	1	1/2	1.44	1.44	1.50	1.30
		3/4	1.50	1.50	1.56	1.30
1 1/4	1 1/4	1/2	1.50	1.50	1.69	1.70
		3/4	1.63	1.63	1.75	1.90
		1	1.75	1.75	1.81	2.10
1 1/2	1 1/2	1/2	1.63	1.63	1.81	2.30
		3/4	1.69	1.69	1.88	2.50
		1	1.81	1.81	2.00	2.60
		1 1/4	2.00	2.00	2.06	3.00
2	2	1/2	1.75	1.75	2.06	3.40
		3/4	1.81	1.81	2.13	3.60
		1	2.00	2.00	2.25	4.00
		1 1/4	2.13	2.13	2.31	4.20
		1 1/2	2.25	2.25	2.38	4.60
2 1/2	2 1/2	2	2.69	2.69	2.75	7.60
3	3	2	2.81	2.81	3.13	9.60



TEE

Malleable Iron Screwed Fittings (Class 300)



MATERIAL SPECIFICATIONS

Dimensional: Fittings: ASME B16.3

Unions: ASME B 16.39

Bushings/Plugs: ASME B 16.14

Material: ASTM A-197

Galvanizing: ASTM A-153 (Hot Dip Galvanizing)

Threading: * ASME B 1.20.1

Pressure Rating: Fittings: ASME B 16.3

Unions: ASME B 16.39

Bushings/Plugs: ASME B 16.14

Pressure Testing: All malleable iron fittings are tested for through wall porosity using an air under water process.

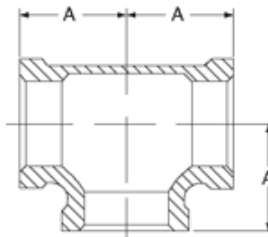
Agency Approvals: All malleable iron fittings and unions are UL Listed and FM Approved.



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 an Anvil® Representative.

TEE		
Size	A	Weight
in	in	lbs
1/4	1.31	0.27
1/2	1.06	0.42
3/4	1.25	0.65
1	1.44	1.10
1 1/4	1.63	1.60
1 1/2	1.94	2.50
2	2.13	3.40
2 1/2	2.50	5.20
3	2.94	8.00
4	3.38	13.00
6	4.50	24.00



The Gruvlok® Clamp-T provides a quick and easy outlet at any location along the pipe. A hole drilled or cut in the pipe to receive the locating collar of the Clamp-T is all that is required. The full, smooth outlet area provides for optimum flow characteristics.

The Clamp-T housing is specially engineered to conform to the pipe O.D. and the Clamp-T gasket providing a leak tight reliable seal in both positive pressure and vacuum conditions. Working pressure ratings shown are for reference only and are based on Schedule 40 pipe. For the latest UL/ULC listed and FM approved pressure ratings versus pipe schedule, see www.anvilstar.com or contact your local AnvilStar Representative.

The Gruvlok Clamp-T provides for a branch or cross connection in light wall or standard wall steel pipe.

The Fig. 7045 Clamp-T female pipe thread branch is available with NPT or ISO 7/1 connection and the Fig. 7046 Clamp-T has grooved-end branch connection.

Clamp-T cross connections are available in various sizes allowing greater versatility in piping design.

NOTE: Variable End Configurations are Possible —
Thd x Thd and Gr. x Thd. Sizes — 2" x 1/2" through 8" x 4"

CLAMP-T FLOW DATA (FRICTIONAL RESISTANCE)		
Branch Size	Fig. 7045 Threaded Branch	
	C.V. Value	Equiv. Pipe Length
In./DN(mm)		Ft./m
1/2	22	1.0
15	-	0.3
3/4	25	2.0
20	-	0.6
1	44	2.0
25	-	0.6
1 1/4	76	2.5
32	-	0.8
1 1/2	89	4.0
40	-	1.2
2	164	3.5
50	-	1.1
2 1/2	152	12.5
65	-	3.8
3	318	8.5
80	-	2.6
4	536	8.0
100	-	2.4



— Available galvanized.

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MATERIAL SPECIFICATIONS

HOUSING:

Ductile Iron conforming to ASTM A-536, Grade 65-45-12 or Malleable Iron conforming to ASTM A-47, Grade 32510

ANSI BOLTS & HEAVY HEX NUTS:

Heat treated, oval neck track head bolts conforming to ASTM A-183 Grade 2 with a minimum tensile strength of 110,000 psi and heavy hex nuts of carbon steel conforming to ASTM A-563 Grade A or Grade B, or J995 Grade 2. Bolts and nuts are provided zinc electroplated as standard.

U-BOLT:

Cold drawn steel and zinc plated.

COATINGS:

Rust inhibiting paint Color: ORANGE (standard)
Hot Dipped Zinc Galvanized (optional)
Other available options: Example: RAL3000 or RAL9000 Series
For other coating requirements contact an AnvilStar Representative.

LUBRICATION:

Standard Gruvlok
Gruvlok Xtreme™ required for dry pipe systems and freezer applications.

GASKETS: Materials

Properties as designated in accordance with ASTM D-2000.

Grade "E" EPDM (Green color code)

-40°F to 230°F (Service Temperature Range)(-40°C to 110°C)
Recommended for water service, diluted acids, alkalies solutions, oil-free air and many chemical services.

NOT FOR USE IN PETROLEUM APPLICATIONS.

PROJECT INFORMATION

APPROVAL STAMP

Project:	<input type="checkbox"/> Approved
Address:	<input type="checkbox"/> Approved as noted
Contractor:	<input type="checkbox"/> Not approved
Engineer:	Remarks:
Submittal Date:	
Notes 1:	
Notes 2:	

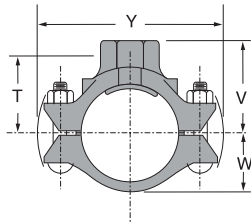


Fig. 7045

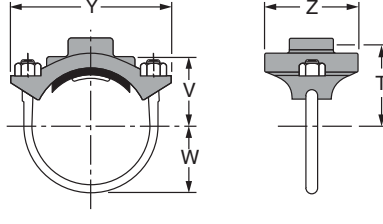


Fig. 7045 (U-Bolt)



WARNING
For dry pipe systems and freezer applications
lubrication of the gasket is required,
Gruvlok® Xtreme™ Lubricant is required.

FIGURE 7045 FPT BRANCH (TABLE CONTINUES TO NEXT PAGE)

Nominal Size	O.D.	Hole Dimensions		▼ Max. Working Pressure	Clamp-T Dimensions						Bolt Size	Specified Torque §		Approx. Wt. Ea.
		Min. Diameter	Max. Diameter		T	U	V Threaded	W	Y	Z		Min.	Max.	
In./DN(mm)	In./mm	In./mm	In./mm	PSI/bar	In./mm	In./mm	In./mm	In./mm	In./mm	In./mm	In./mm	Ft.-Lbs./N-m	Lbs./Kg	
2 x 1/2 50 x 15	2.375 x 0.840 60.3 x 21.3	1 1/2 38	1 5/8 41	500 34.5	2 3/16 56	1 1/8 14	2 1/2 67	1 1/2 12	5 1/2 140	3 76	1/2 U-Bolt -	30	40	2.3 1.0
2 x 3/4 50 x 20	2.375 x 1.050 60.3 x 26.7	1 1/2 38	1 5/8 41	500 34.5	2 3/16 52	1 1/8 14	2 1/2 67	1 1/2 38	5 1/2 140	3 76	1/2 U-Bolt -	30	40	2.3 1.0
2 x 1 50 x 25	2.375 x 1.315 60.3 x 33.7	1 1/2 38	1 5/8 41	500 34.5	1 15/16 51	1 1/8 14	2 1/2 67	1 1/2 38	5 1/2 140	3 76	1/2 U-Bolt -	30	40	2.6 1.2
2 x 1 1/4 50 x 32	2.375 x 1.660 60.3 x 42.4	2 51	2 1/8 54	500 34.5	2 3/16 55	1 1/8 14	2 1/2 73	1 1/2 38	5 1/2 140	3 1/2 89	1/2 U-Bolt -	30	40	2.7 1.2
2 x 1 1/2 50 x 40	2.375 x 1.900 60.3 x 48.3	2 51	2 1/8 54	500 34.5	2 3/16 55	1 1/8 14	2 1/2 73	1 1/2 38	7 178	3 1/2 89	1/2 U-Bolt -	30	40	2.5 1.1
2 1/2 x 1/2 65 x 15	2.875 x 0.840 73.0 x 21.3	1 1/2 38	1 5/8 41	500 34.5	2 1/2 62	1 1/8 14	2 1/2 73	1 3/4 44	5 1/2 140	3 76	1/2 U-Bolt -	30	40	3.0 1.4
2 1/2 x 3/4 65 x 20	2.875 x 1.050 73.0 x 26.7	1 1/2 38	1 5/8 41	500 34.5	2 1/2 59	1 1/8 14	2 1/2 73	1 3/4 44	5 1/2 140	3 76	1/2 U-Bolt -	30	40	2.9 1.3
2 1/2 x 1 65 x 25	2.875 x 1.315 73.0 x 33.7	1 1/2 38	1 5/8 41	500 34.5	2 1/2 55	1 1/8 14	2 1/2 73	1 3/4 44	6 1/2 156	3 76	1/2 U-Bolt -	30	40	2.9 1.3
2 1/2 x 1 1/4 65 x 32	2.875 x 1.660 73.0 x 42.4	2 51	2 1/8 54	500 34.5	2 1/2 62	1 1/8 14	3 1/2 79	1 3/4 44	6 1/2 156	3 3/8 86	1/2 U-Bolt -	30	40	3.4 1.5
2 1/2 x 1 1/2 65 x 40	2.875 x 1.900 73.0 x 48.3	2 51	2 1/8 54	500 34.5	2 1/2 62	1 1/8 14	3 1/2 79	1 3/4 44	6 1/2 156	3 3/8 86	1/2 U-Bolt -	30	40	3.4 1.5
3 x 1/2 80 x 15	3.500 x 0.840 88.9 x 21.3	1 1/2 38	1 5/8 41	500 34.5	2 3/16 65	1 1/8 14	3 76	2 1/2 54	7 178	3 3/4 95	1/2 U-Bolt -	30	40	2.8 1.2
3 x 3/4 80 x 20	3.500 x 1.050 88.9 x 26.7	1 1/2 38	1 5/8 41	500 34.5	2 3/16 62	1 1/8 14	3 76	2 1/2 54	7 178	3 3/4 95	1/2 U-Bolt -	30	40	2.7 1.2
3 x 1 80 x 25	3.500 x 1.315 88.9 x 33.7	1 1/2 38	1 5/8 41	500 34.5	2 3/16 59	1 1/8 14	3 76	2 1/2 54	7 178	3 3/4 95	1/2 U-Bolt -	30	40	2.7 1.2
3 x 1 1/4 80 x 32	3.500 x 1.660 88.9 x 42.4	2 51	2 1/8 54	500 34.5	2 1 1/16 68	1 1/2 38	3 3/8 86	2 1/2 54	6 3/8 175	3 3/4 95	1/2 x 2 3/4 -	80	100	3.4 1.5
3 x 1 1/2 80 x 40	3.500 x 1.900 88.9 x 48.3	2 51	2 1/8 54	500 34.5	2 1 1/16 68	1 1/2 38	3 3/8 86	2 1/2 54	6 3/8 175	3 3/4 95	1/2 x 2 3/4 -	80	100	4.4 2.0
3 x 2 80 x 50	3.500 x 2.375 88.9 x 60.3	2 1/2 64	2 3/8 67	500 34.5	2 1 1/16 68	1 1/2 38	3 3/8 86	2 1/2 54	6 3/8 175	4 1/8 105	1/2 x 2 3/4 -	80	100	4.6 2.1
4 x 1/2 100 x 15	4.500 x 0.840 114.3 x 21.3	1 1/2 38	1 5/8 41	500 34.5	3 1/16 76	1 1/8 14	3 1/2 89	2 3/8 67	7 3/4 197	3 3/4 95	1/2 U-Bolt -	30	40	2.9 1.3
4 x 3/4 100 x 20	4.500 x 1.050 114.3 x 26.7	1 1/2 38	1 5/8 41	500 34.5	3 1/16 78	1 1/8 14	3 1/2 89	2 3/8 67	7 3/4 197	3 3/4 95	1/2 U-Bolt -	30	40	2.8 1.3
4 x 1 100 x 25	4.500 x 1.315 114.3 x 33.7	1 1/2 38	1 5/8 41	500 34.5	2 13/16 73	1 1/8 14	3 1/2 89	2 3/8 67	7 3/4 197	3 3/4 95	1/2 U-Bolt -	30	40	2.7 1.2
4 x 1 1/4 100 x 32	4.500 x 1.660 114.3 x 42.4	2 51	2 1/8 54	500 34.5	3 3/16 81	1 3/8 48	3 3/8 98	2 3/8 67	7 1/2 191	3 3/4 95	1/2 x 2 3/4 -	80	100	4.5 2.0
4 x 1 1/2 100 x 40	4.500 x 1.900 114.3 x 48.3	2 51	2 1/8 54	500 34.5	3 3/16 81	1 3/8 48	3 3/8 98	2 3/8 67	7 1/2 191	3 3/4 95	1/2 x 2 3/4 -	80	100	4.6 2.1
4 x 2 100 x 50	4.500 x 2.375 114.3 x 60.3	2 1/2 64	2 3/8 67	500 34.5	3 3/16 84	1 3/8 48	4 102	2 3/8 67	7 1/2 191	4 1/8 105	1/2 x 2 3/4 -	80	100	7.7 3.5
4 x 2 1/2 100 x 65	4.500 x 2.875 114.3 x 73.0	2 3/4 70	2 3/8 73	500 34.5	3 1 1/16 78	1 3/8 48	4 102	2 3/8 67	7 1/2 191	4 3/8 111	1/2 x 2 3/4 -	80	100	5.2 2.4
4 x 3 O.D. 100 x 80	4.500 x 2.996 114.3 x 76.1	2 3/4 70	2 3/8 73	500 34.5	3 76	1 3/8 48	4 102	2 3/8 67	7 1/2 191	4 3/8 111	1/2 x 2 3/4 -	80	100	5.2 2.4
4 x 3 100 x 80	4.500 x 3.500 114.3 x 88.9	3 1/2 89	3 3/8 92	500 34.5	3 3/4 83	1 3/8 48	4 1/4 108	2 3/8 67	7 1/2 191	5 1/4 133	1/2 x 3 1/2 -	80	100	6.5 2.9

NOTE: 2 1/2", 5" and 6" Nominal size run pipe may be used on 3" O.D., 5 1/2" O.D. and 6 1/2" O.D. pipe.

▼ Based on use with standard wall pipe.

Not for use in copper systems.

§ - For additional Bolt Torque information, see Technical Data Section.
(Additional larger sizes on next page)

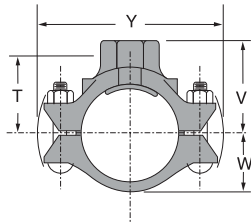


Fig. 7045

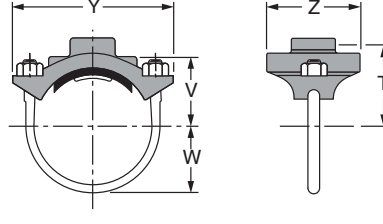


Fig. 7045 (U-Bolt)



WARNING
For dry pipe systems and freezer applications
lubrication of the gasket is required,
Gruvlok® Xtreme™ Lubricant is required.

FIGURE 7045 FPT BRANCH (CONTINUED FROM PREVIOUS PAGE)

Nominal Size	O.D.	Hole Dimensions		▼ Max. Working Pressure	Clamp-T Dimensions						Bolt Size	Specified Torque §		Approx. Wt. Ea.
		Min. Diameter	Max. Diameter		T	U	V Threaded	W	Y	Z		Min.	Max.	
In./DN(mm)	In./mm	In./mm	In./mm	PSI/bar	In./mm	In./mm	In./mm	In./mm	In./mm	In./mm	In./mm	Ft.-Lbs./N-m		Lbs./Kg
5 x 1¼ 125 x 32	5.563 x 1.660 141.3 x 42.4	2 51	2½ 54	500 34.5	3⅛ 94	1⅞ 48	4⅞ 111	3¼ 83	9⅞ 232	3¼ 95	⅝ x 3¼ -	100	130	5.4 2.4
5 x 1½ 125 x 40	5.563 x 1.900 141.3 x 48.3	2 51	2½ 54	500 34.5	3⅛ 94	1⅞ 48	4⅞ 111	3¼ 83	9⅞ 232	3¼ 95	⅝ x 3¼ -	100	130	5.5 2.5
5 x 2 125 x 50	5.563 x 2.375 141.3 x 60.3	2½ 64	2⅞ 67	500 34.5	3⅜ 97	1⅞ 48	4½ 114	3¼ 83	9⅞ 232	4⅞ 105	⅝ x 3¼ -	100	130	5.7 2.6
5 x 2½ 125 x 65	5.563 x 2.875 141.3 x 73.0	2¾ 70	2⅞ 73	500 34.5	3⅜ 97	1⅞ 48	4¾ 121	3¼ 83	9⅞ 232	4⅞ 111	⅝ x 3¼ -	100	130	7.0 3.2
5 x 3 O.D. 125 x 80	5.563 x 2.996 141.3 x 76.1	2¾ 70	2⅞ 73	500 34.5	3¾ 95	1⅞ 48	4¾ 121	3¼ 83	9⅞ 232	4⅞ 111	¾ x 4½ -	130	180	7.0 3.2
5 x 3 125 x 80	5.563 x 3.500 141.3 x 88.9	3½ 89	3⅞ 92	500 34.5	4 102	1⅞ 48	5 127	3¼ 83	9⅞ 232	5¼ 133	⅝ x 3¼ -	100	130	8.7 3.9
6 x 1¼ 150 x 32	6.625 x 1.660 168.3 x 42.4	2 51	2½ 54	500 34.5	4⅞ 106	2 51	4⅞ 124	3⅞ 98	10⅞ 257	3¾ 95	⅝ x 4¼ -	100	130	7.8 3.5
6 x 1½ 150 x 40	6.625 x 1.900 168.3 x 48.3	2 51	2½ 54	500 34.5	4⅞ 106	2 51	4⅞ 124	3⅞ 98	10⅞ 257	3¾ 95	⅝ x 4¼ -	100	130	7.8 3.5
6 x 2 150 x 50	6.625 x 2.375 168.3 x 60.3	2½ 64	2⅞ 67	500 34.5	4⅞ 106	2 51	4⅞ 124	3⅞ 98	10⅞ 257	4⅞ 105	⅝ x 4¼ -	100	130	7.8 3.5
6 x 2½ 150 x 65	6.625 x 2.875 168.3 x 73.0	2¾ 70	2⅞ 73	500 34.5	4⅞ 106	2 51	5⅞ 130	3⅞ 98	10⅞ 257	4⅞ 111	⅝ x 4¼ -	100	130	8.4 3.8
6 x 3 O.D. 150 x 80	6.625 x 2.996 168.3 x 76.1	2¾ 70	2⅞ 73	500 34.5	4⅞ 105	2 51	5⅞ 130	3⅞ 98	10⅞ 257	4⅞ 111	⅝ x 4¼ -	100	130	8.4 3.8
6 x 3 150 x 80	6.625 x 3.500 168.3 x 88.9	3½ 89	3⅞ 92	500 34.5	4⅞ 111	2 51	5⅞ 137	3⅞ 98	10⅞ 257	5¼ 133	⅝ x 4¼ -	100	130	9.6 4.4
6 x 4 150 x 100	6.625 x 4.500 168.3 x 114.3	4½ 114	4⅞ 117	500 34.5	4⅞ 111	2 51	5½ 140	3⅞ 98	10⅞ 257	6½ 165	⅝ x 4¼ -	100	130	10.5 4.8
8 x 2 200 x 50	8.625 x 2.750 219.1 x 70.0	2½ 64	2⅞ 67	500 34.5	5⅞ 132	2¼ 57	5⅞ 149	5 127	12¾ 324	4⅞ 105	¾ x 4¼ -	130	180	11.3 5.1
8 x 2½ 200 x 65	8.625 x 2.875 219.1 x 73.0	2¾ 70	2⅞ 73	500 34.5	5⅞ 134	2¼ 57	6¼ 159	5 127	12¾ 324	4⅞ 111	¾ x 4½ -	130	180	11.1 5.0
8 x 3 O.D. 200 x 80	8.625 x 2.996 219.1 x 76.1	2¾ 70	2⅞ 73	500 34.5	5¼ 133	2¼ 57	6¼ 159	5 127	12¾ 324	4⅞ 111	¾ x 4½ -	130	180	11.1 5.0
8 x 3 200 x 80	8.625 x 3.500 219.1 x 88.9	3½ 89	3⅞ 92	500 34.5	5⅞ 137	2¼ 57	6⅞ 162	5 127	12¾ 324	5¼ 133	¾ x 4½ -	130	180	13.0 5.9
8 x 4 200 x 100	8.625 x 4.500 219.1 x 114.3	4½ 114	4⅞ 117	500 34.5	5⅞ 137	2¼ 57	6⅞ 165	5 127	12¾ 324	6½ 165	¾ x 4½ -	130	180	16.2 7.3

NOTE: 2½", 5" and 6" Nominal size run pipe may be used on 3" O.D., 5½" O.D. and 6½" O.D. pipe.

▼ Based on use with standard wall pipe.

Not for use in copper systems.

§ – For additional Bolt Torque information, see Technical Data Section.
(Additional larger sizes on next page)



SPRINKLER PIPE

Trust Bull Moose when it comes to protecting your most valuable assets.

As the leading manufacturer of steel sprinkler pipe, we understand that there are no second chances in fire suppression. You need products of enduring quality and exceptional strength—plus reliable service. You need Bull Moose.

BULL MOOSE ADVANTAGES:

- UL listed (US & Canada) and FM approved
- ASTM A135 and A795 Type E, Grade A Certified
- Complies with NFPA-13, 13R and 14
- Industry-leading hydraulic characteristics.
- CRR of 1.0 and greater
- All pipe NDT weld tested

**Exclusive maker of Reddi-Pipe®
red painted pipe.**

OTHER BENEFITS/SERVICES:

- We have the most stocking locations in industry, for best delivery and availability
- Plain end or roll groove
- Eddy Guard II® bacterial-resistant internal coating
- Custom length options
- Hot dipped galvanization
- Reddi-Pipe® red pipe to eliminate field painting
- Compatible for use in wet, dry, preaction and deluge sprinkler systems

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Bull Moose Fire Sprinkler Pipe Product Information

Nominal Pipe Size (Inches)		1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	6"	8"
EDDY FLOW	O.D. (in)		1.660	1.900	2.375	2.875	3.500	4.500		
	I.D. (in)		1.530	1.728	2.203	2.705	3.334	4.310		
	Empty Weight (lb/ft)		1.222	1.844	2.330	2.809	3.361	4.968		
	Water Filled Weight (lb/ft)		2.019	2.860	3.982	5.299	7.144	11.290		
	C.R.R.		1.98	3.44	2.78	1.66	1.00	1.00		
	Pieces per Lift		61	61	37	30	19	19		
	Lift Weight (lbs) 21' lengths		1,565	2,362	1,810	1,770	1,341	1,982		
	Lift Weight (lbs) 24' lengths		1,789	2,700	2,069	2,022	1,533	2,265		
	Lift Weight (lbs) 25' lengths		1,864	2,812	2,155	2,107	1,596	2,360		
SCHEDULE 10	O.D. (in)	1.315	1.660	1.900	2.375	2.875	3.500	4.500	6.625	8.625
	I.D. (in)	1.097	1.442	1.682	2.157	2.635	3.260	4.260	6.357	8.249
	Empty Weight (lb/ft)	1.410	1.810	2.090	2.640	3.530	4.340	5.620	9.290	16.940
	Water Filled Weight (lb/ft)	1.820	2.518	3.053	4.223	5.893	7.957	11.796	23.038	40.086
	C.R.R.	15.27	9.91	7.76	6.27	4.92	3.54	2.50	1.158	1.805
	Pieces per Lift	91	61	61	37	30	19	19	10	7
	Lift Weight (lbs) 21' lengths	2,695	2,319	2,677	2,051	2,224	1,732	2,242	1,951	2,490
	Lift Weight (lbs) 24' lengths	3,079	2,650	3,060	2,344	2,542	1,979	2,563	2,230	2,848
	Lift Weight (lbs) 25' lengths	3,208	2,760	3,187	2,442	2,648	2,062	2,670		
EDDYTHREAD 40	O.D. (in)	1.295	1.650	1.900	2.375					
	I.D. (in)	1.083	1.418	1.645	2.123					
	Empty Weight (lb/ft)	1.461	2.070	2.547	3.308					
	Water Filled Weight (lb/ft)	1.860	2.754	3.468	4.842					
	C.R.R.	1.00	1.00	1.00	1.00					
	Pieces per Lift	70	51	44	30					
	Lift Weight (lbs) 21' lengths	2,148	2,217	2,353	2,084					
	Lift Weight (lbs) 24' lengths	2,454	2,534	2,690	2,382					
	Lift Weight (lbs) 25' lengths	2,557	2,639	2,802	2,481					
SCHEDULE 40	O.D. (in)	1.315	1.660	1.900	2.375	2.875	3.500	4.500		
	I.D. (in)	1.049	1.380	1.610	2.067	2.469	3.068	4.026		
	Empty Weight (lb/ft)	1.680	2.270	2.720	3.660	5.800	7.580	10.800		
	Water Filled Weight (lb/ft)	2.055	2.918	3.602	5.114	7.875	10.783	16.316		
	C.R.R.	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
	Pieces per Lift	70	51	44	30	30	19	19		
	Lift Weight (lbs) 21' lengths	2,470	2,431	2,513	2,306	3,654	3,024	4,309		
	Lift Weight (lbs) 24' lengths	2,822	2,778	2,872	2,635	4,176	3,456	4,925		
	Lift Weight (lbs) 25' lengths	2,940	2,894	2,992	2,745	4,350	3,601	5,130		



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RODS, PLATES & HARDWARE

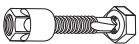
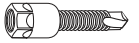
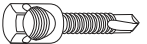


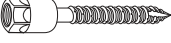


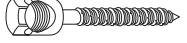
HARDWARE ANCHORS HMZ


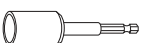
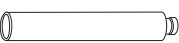

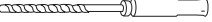
HangerMate® Anchors

- Used for supporting/anchoring threaded rod in wood, steel or concrete structural members

NOTE: For use on horizontal and vertical surfaces

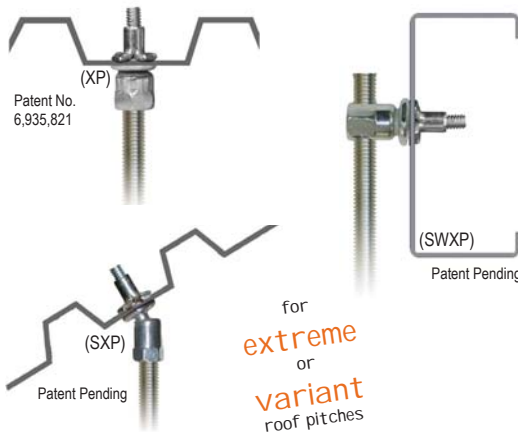


	Part Number	RS	Description
Steel Applications – Vertical Mount (End-drilled Head)			
	HMZG471	3/8-16	3/8" rod anchor for steel and purlin
	HMZG550	3/8-16	Self drilling anchor for steel 16 ga. - 1/4"
Steel Applications – Horizontal Mount (Cross-drilled Head)			
	HMZH455	3/8-16	3/8" rod anchor for sidewall (.125" max)
	HMZH475	3/8-16	3/8" rod anchor for steel (.25" max)
	HMZH476	3/8-16	3/8" rod anchor sidewall, steel and purlin
Wood Applications – Vertical Mount (End-drilled Head)			
	HMZG660	3/8-16	Self drilling 3/8" rod anchor for wood
Wood Applications – Horizontal Mount (Cross-drilled Head)			
	HMZH665	3/8-16	3/8" rod anchor for sidewall/wood
Concrete Applications – Vertical Mount (End-drilled Head)			
	HMZG730	3/8-16	3/8" rod anchor for concrete
Concrete Applications – Horizontal Mount (Cross-drilled Head)			
	HMZG735	3/8-16	5/16" x 2-1/4" HangerMate Anchor

	Part Number	Description
Installation Tools		
	HMZE200	Recessed drive socket for metal and wood side-mount applications
	HMZE215	Vertical recessed drive socket for metal and wood vertical-mount applications
	HMZE220	Concrete recessed drive socket sleeve
	HMZE230	Carbide countersink tool – use with HMZG730 for concrete/masonry applications
	HMZE380	SDS Hex Shank Drill Bit














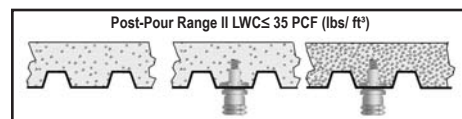
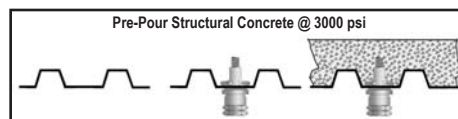
Sammy X-Press® *Installs into Metal Deck, Purlin, or Tubular Steel*



Product Features

- The **Sammy X-Press** expands to provide direct vertical attachment in:
 - Metal Deck (22-16 gauge)
 - Z-Purlin (18-16 gauge)
 - The **Sammy X-Press Swivel** allows you to hang plumb in extreme roof pitches:
 - 89° in Z-Purlin
 - 45° in metal deck for 12/12 pitch
 - The **Sammy X-Press Sidewinder** expands to provide horizontal attachment in:
 - 16 ga - 3/16" steel - purlin, tubular steel.
- Installs in seconds, saving time & installation costs.
 - Use in applications where access to the back of the installed fastener is prohibited. ie. metal roof deck, tubular steel, or vapor barrier fabric.
 - Less jobsite material needed.
 - No retaining nut required.
 - Provides design flexibility.

Approvals	Rod Size	Part Number	Model	Description	Ultimate Pullout (lbs)	UL Test Load (lbs)	FM Test Load (lbs)	Min Thick	Max Thick	Box Qty	Case Qty	Application	
VERTICAL MOUNT													
	1/4"	8181922	XP 200	X-Press 200	1146 (22 ga)	185 (Luminaire) 250 (Luminaire)		.027" .056"	.125"	25	125	Metal Deck	
 	3/8"	8150922	XP 20	X-Press 20	1146 (22 ga)	850 (2½" Pipe) 185 (Luminaire) 250 (Luminaire) 283 (Conduit & Cable)	940 (2" Pipe) 1475 (4" Pipe)	.027" .027" .056"	.125"	25	125	Metal Deck	
 	3/8"	8153922	XP 35	X-Press 35	1783 (16 ga)	1500 (4" Pipe) 85 (Luminaire) 250 (Luminaire) 416 (Conduit & Cable)	940 (2" Pipe) 1475 (4" Pipe)	.060" .105" .027" .056"	.125"	25	125	Purlin	
 	3/8"	8294922	SXP 20	Swivel X-Press 20	1061 (22 ga Vertical) 829 (45° Off Vertical)	750 (2" Pipe) 170 vertical (Luminaire) 80 @ 45° (Luminaire) 283 vertical (Conduit & Cable) 233 @ 45° (Conduit & Cable)	635 (2" Pipe)	.027"	.125"	25	125	Metal Deck	
 	3/8"	8295922	SXP 35	Swivel X-Press 35	1675 (16 ga Vertical) 1558 (89° Off Vertical)	1500 (4" Pipe) 250 vertical (Luminaire) 80 @ 90° (Luminaire) 500 vertical (Conduit & Cable) 333 @ 89° (Conduit & Cable)	635 (2" Pipe)	.060"	.125"	25	125	Purlin	
	3/8"	8150922	XP 20	Sammy X-Press 20	1146 (22 ga)	850 (2½ Pipe)	Pre-Pour Structural Concrete@ 3000 psi Post-Pour Range II LWC≤ 35 PCF (lbs/ft³)				25	125	Metal Deck (Pre-Pour) Metal Deck (Post-Pour)
HORIZONTAL MOUNT													
	3/8"	8293957	SWXP 35	Sidewinder X-Press 35	1798 (16 ga)	1250 (3½" Pipe) 80 (Luminaire) 416 (Conduit & Cable)		.060"	.125"	25	125	Purlin	



Sammy X-Press It® **INSTALLATION TOOL**



Part Number	Model	Description	Each Qty
8194910	UXPIT*	Universal X-Press It Tool	1
8195910	RXPIT	Retro Socket for 8151910	1
8152910	XPDB	25/64" Drill Bit	1

*Tool Includes: Sleeve, Bit Receiver, Hex Wrench, and 25/64" Drill Bit.



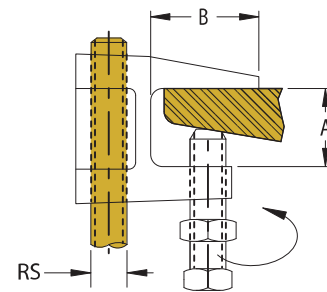
To watch a video demonstration of the Sammy X-Press, visit <http://www.sammysuperscrew.com/sammyxpress.htm>

BEAM CLAMPS

BEAM CLAMP 300

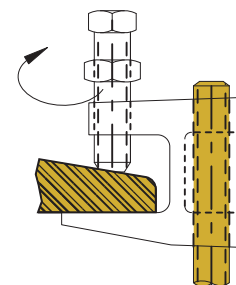
Universal Ductile Iron Beam Clamp

- Size Range: 3/8", 1/2", 5/8", 3/4" and 7/8" rod sizes
- Surface Finish: Black, Electro-zinc plated
- Structural attachment to top or bottom of metal beams, purlins, channel, or angle iron
- Setscrew made of hardened steel
- For retainer straps see Models 300C and 035RS
- Available with a HD finish by special order
- Conforms with Federal Specification WW-H-171 (Type 23), Manufacturers Standardization Society ANSI/MSS-SP-58 (Type 19 & 23), install in accordance with ANSI/MSS-SP-69
- Setscrew must be tightened and torqued onto the sloped side of the I-beam



TOP

May be mounted in either position



BOTTOM

Part Number	RS	A	B	Set Screw	Max. Rec. Load (lbs)	
Plain Finish					Top	Bottom
3000037PL *	3/8	3/4"	1-1/8"	3/8"	500	250
3000050PL *	1/2	3/4"	1-1/8"	7/16"	950	760
3000062PL	5/8	3/4"	1-1/8"	3/8"	950	760
3000075PL	3/4	3/4"	1-1/8"	3/8"	950	760
3000087PL	7/8	3/4"	1-1/8"	3/8"	950	760
Electro-zinc Plated Finish						
3000037EG *	3/8	3/4"	1-1/8"	3/8"	500	250
3000050EG *	1/2	3/4"	1-1/8"	7/16"	950	760
3000062EG	5/8	3/4"	1-1/8"	3/8"	950	760
3000075EG	3/4	3/4"	1-1/8"	3/8"	950	760
3000087EG	7/8	3/4"	1-1/8"	3/8"	950	760

*Theses sizes are FM approved

Recommended Torque** (for setscrews):

Setscrew Size	1/4-20	3/8-16	7/16-14	1/2-13	5/8-11	3/4-10
Foot-lbs	4	5	8	11	21	34
Nm	(5)	(7)	(11)	(15)	(28)	(46)

**Recognizing that torque wrenches are generally not used or available on many job sites, the setscrew should be tightened so it contacts the I-beam and then an additional 1/4 to 1/2 turn added.



RODS, PLATES & HARDWARE

HARDWARE THREADED STUD 51

Threaded Studs

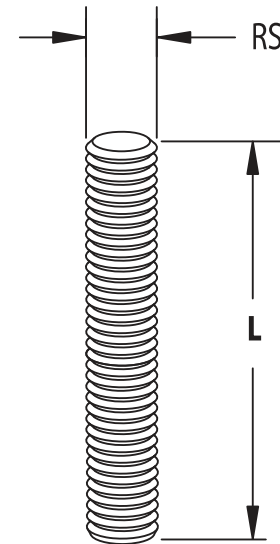
- Size Range: 3/8" and 1/2" rod sizes
- Surface Finish: Plain
- Attaches hangers to structural attachments without threading or cutting the rod, UNC Thread Form

NOTE: Low carbon: tensile: 58,000 psi; yield: 36,000 psi



Part Number	RS	L	Max. Rec. Load (lbs)*
0513702PL	3/8"	2"	610
0513703PL	3/8"	3"	610
0513704PL	3/8"	4"	610
0513705PL	3/8"	5"	610
0513706PL	3/8"	6"	610
0515004PL	1/2"	4"	1130
0515005PL	1/2"	5"	1130
0515006PL	1/2"	6"	1130
0515010PL	1/2"	10"	1130
0515012PL	1/2"	12"	1130

*Load based on Max. 650 F



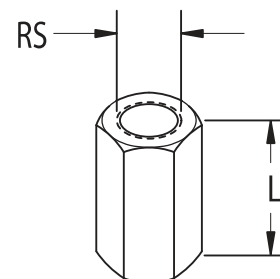
HARDWARE ROD COUPLING 25

Steel Rod Coupling

- Size Range: 1/4" thru 7/8" rod sizes
- Surface Finish: Electro-zinc Plated
- Intermediate accessory designed to join two lengths of similar UNC threaded rod



Part Number	RS	L	Max. Rec. Load (lbs)
0250025EG	1/4"	7/8"	240
0250037EG	3/8"	1-3/4"	610
0250050EG	1/2"	1-3/4"	1130
0250062EG	5/8"	2-1/8"	1810
0250075EG	3/4"	2-1/4"	2710
0250087EG	7/8"	2-1/2"	3770



LOOP HANGERS

SWIVEL LOOP HANGER 100

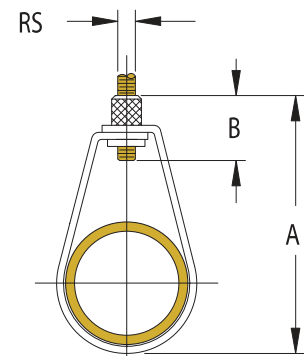
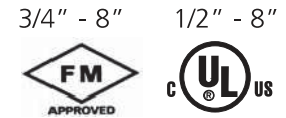
Heavy Duty Adjustable Band Hanger

- Size Range: 1/2" through 8"
- Surface Finish: Electro-zinc plated
- Recommended for the suspension of stationary non-insulated pipe lines
- Features a retained insert nut to ensure that the loop hanger and insert nut stay together
- Conforms with Federal Specification WW-H-171 (Type 10), Manufacturers Standardization Society (MSS) SP-58 and SP-69 (Type 10)

NEW



Part Number	Nominal Pipe Size	RS	A	B	Max. Rec. Load (lbs)
1000050EG	1/2"	3/8"	2-3/4"	1"	300
1000075EG	3/4"	3/8"	3-1/16"	1"	300
1000100EG	1"	3/8"	3-5/16"	1"	300
1000125EG	1-1/4"	3/8"	3-9/16"	1"	300
1000150EG	1-1/2"	3/8"	3-13/16"	1"	300
1000200EG	2"	3/8"	4-1/4"	1"	300
1000250EG	2-1/2"	1/2"	5-5/8"	1-1/4"	1000
1000300EG	3"	1/2"	6-9/16"	1-1/4"	1000
1000350EG	3-1/2"	1/2"	7"	1-1/4"	1000
1000400EG	4"	5/8"	7-3/4"	1-5/16"	1100
1000500EG	5"	5/8"	9-1/8"	1-5/16"	1100
1000600EG	6"	3/4"	10-5/8"	1-9/16"	1250
1000800EG	8"	7/8"	13-1/8"	1-5/8"	1250



LOOP HANGER SURGE RESTRAINT LHSR6

Heavy Duty Adjustable Band Hanger

- Size Range: fits 1/2" through 2" model 100 loop hangers
- Surface Finish: CADDY® COAT Black
- Restricts the upward surge movement of activated fire sprinkler systems
- Meets NFPA® 13 requirements
- One size fits 1/2" thru 2" sizes of the model 100 loop hanger
- Grips the loop hanger – not the nut – allowing fine tuning for height adjustment
- Installs without tools

NEW

