



SUPER ANCHOR SAFETY®

1090-1091 Loop Top Fall Protection Anchors Instruction/Specification Manual 2019

ENGLISH
VERSION

!WARNING TO USER!
You are required to read and use the Instruction/ Specification manual supplied at the time this device was shipped. Improper use and installation can result in serious injury or death. Follow inspection requirements before each use.

Material Specifications

No. 1090 Loop Top: Q235 cast steel. 1-3/8" i.d.
Finish: Raw Uncoated or HDG(Hot Dip Galvanized).
No.1090-S /1091-S: 316 stainless steel.
Bare Wt. Approx 1lb
Low Temperature: -30°F to +130°F
⊗ Inspection Points pg. 2

Compliance

1090/1090-S are 3rd party certified to comply with OSHA 1926.502/1910.140(13). ANSI/IWCA 1-14.1 Window Washing.
Warning! Stud bolt loop tops are not rated for window washing, fall restraint use.

Proof Loading Loop Top Only.

Maximum proof loading without any permanent deformation 2,500lb(11.5kN). Do not proof load Pass Through tops. See Fig.4.

Strength Rating all Directions of Load

Loop Top Casting: Min.5,000lb
Bolt attached or Field Welded: Min.5,000lb
4-1 Design Load: 1,250lb

Fall Protection Specifications of Use

1 person max. user wt. 340lb including tools and equipment. Use as an anchorage connector to support a suspended component/tie-back line or an active fall protection system with a maximum free fall exposure of 6ft(1.8m).

Horizontal Lifelines (HLL): End anchors or intermediate anchors.

Consult SAS HLL and CRA manuals.

User PPE: Users are required to wear a full body harness (FBH), a personal energy absorber with other fall protection components that comply with current OSHA/ANSI/CSA standards.

Window Washing: Loop Tops used for window washing must have their structural attachment specified by the project architect or engineer or 3rd party. Stud bolt models shown at Figs.2,8 are not recommended for use for window washing.

PPE Connectors/Compatibility

Use only Class 1 connectors, carabiners, snaphooks and rebarhooks, that comply with current ANSI, CSA, or OSHA standards that have 3,600lb gate strengths. Lines used for window washing may be attached as specified by IWCA 1-14.1 or later versions.

Anchor Locations

Install on horizontal, vertical, slopped, and overhead surfaces. Anchor locations should be specified by the project architect, engineer or SAS Plan Service. Typical spacing is 20ft or less between anchor points.

Loop Top Installation

Wood Substrates: Install through plywood with a min. thickness of 3/4". Plywood substrates less than 3/4" or any thickness of OSB require a 3/4" plywood backer board as shown at Fig.8. Stud Bolt models (SBS) have a maximum substrate thickness of 1-1/2".

Concrete Embedment

Poured in place stud bolt installation must be specified by the project architect or engineer. Longer length stud bolts can be special ordered.

Field Welded

Must be performed by a certified welder and attached to a structural steel member as shown at Fig.3, with a min. thickness of 1/4" or as specified by the project architect or engineer.

Structural Support

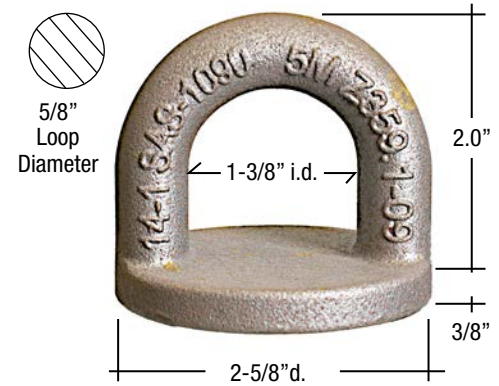
The anchor attachment point must be structurally capable of supporting 5,000lb or 2x the intended fall protection load per OSHA 1926.502/1910.140(13). 3rd party structural engineering is available from SAS upon request.

For example: 1 person w/energy absorber maximum arrest force of 1,800lb x 2= 3,600lb attachment point.

Table 1: Loop Top Part No.	Type	Field Weld	2" Stud Bolt
	Raw	1090-R	1090-RBS
	HDG	1090-G	1090-GBS
	316sst	1090-S	1090-SBS

Fig.1

Loop Top Dimensions



5/8"d. Stud Bolt Attached

Specified Use: Steel and wood substrates with a max. thickness of 1-1/2".

Fig.2

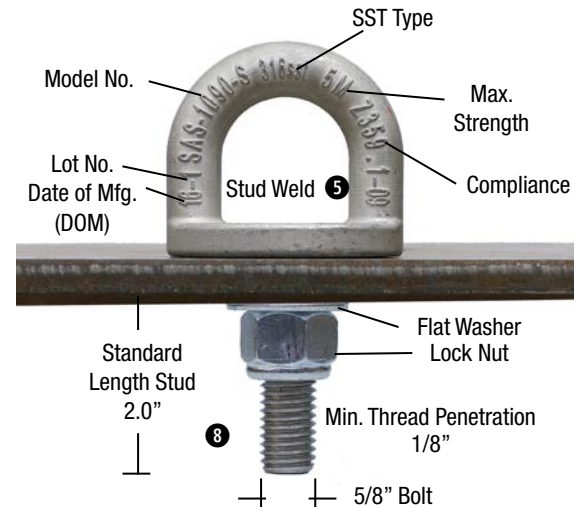


Fig.2.1

Stud Weld 5

Fig.3
Field Welded



Pass Through Tops (PT)

Specified for Horizontal Lifelines (HLL's) intermediate anchors. Do not use PT tops for personal fall protection, HLL end anchors or attachment of accessory components.

O-Ring: HLL's are supplied with No. 5010-SM O-Rings for attaching class 1 connectors and sized to fit through PT tops as shown at Fig.6.

Table 2: PT Top Part No.	Type	Field Weld	2" Stud Bolt
	Raw	1091-R	1091-RBS
	HDG	1091-G	1091-GBS
	316sst	1091-S	10901SBS

Fig.4

Pass Through O-Ring Slot

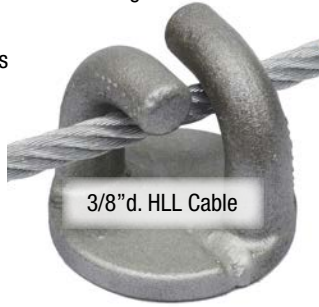
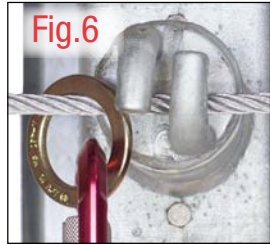
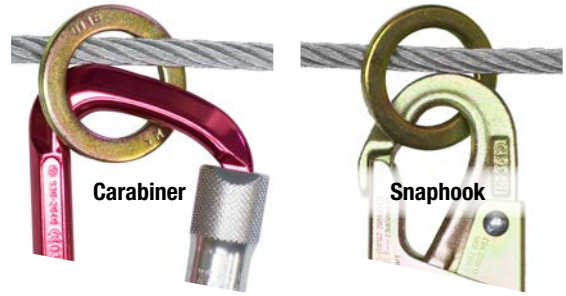


Fig.5

O-Ring No. 5010-SM

Attach only 1 connector to an O-Ring.



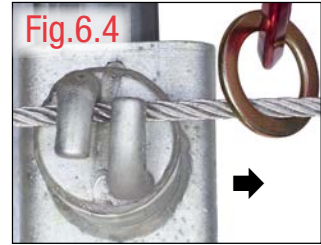
O-Ring Direction ➔



Move O-Ring to Pass Through Center Slot



Rotate connector and pull O-Ring through PT top. ⬆



Product I.D Labels

PID/Inspection labels are required to be attached to the loop top. Replacement labels are supplied upon request.

Stud Bolt Label

Fig.7



Tapped Bolt Label
Permanent Field Welded

Fig.7.1



Zip Tie Option
Temporary Field Welded

Fig.7.2



Daily and Annual Inspections

Loop Tops should be inspected prior to each use and annually by a qualified or "competent" person. Record inspections on the inspection label. The following inspection points are intended as a guideline only. Safety personnel are responsible for drafting their own fall protection inspection and maintenance program.

Remove equipment from service if any of the following conditions are present:

Primary Inspection Points

- 1 Subjected to a free fall or other force.
- 2 Obvious damage to any component.
- 3 Has not been inspected annually.
- 4 Fails to pass inspection.
- 5 Loop Top is deformed or damaged. Field welds or stud welds are cracked. ☒
- 6 Red rust or oxidation is present. Clean the surface and coat with zinc spray or exterior grade paint. ☑
- 7 Labels are damaged, unreadable or missing. Replace labels. ☑
- 8 Stud bolts/nuts are damaged. ☒

☒=Remove From Service ☑=Perform Maintenance

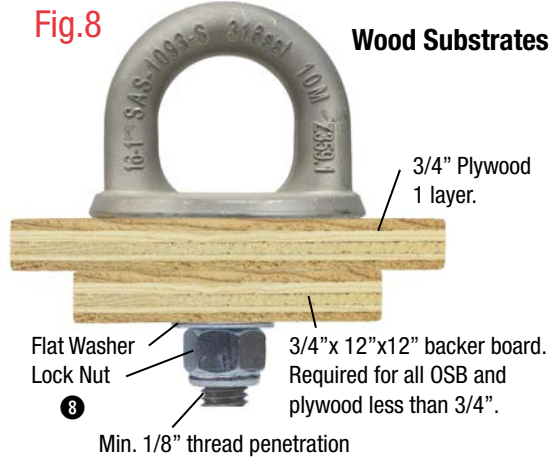
Coupler No. 1082-S

11 gauge 316sst. Use with 1090 model Loop Tops.



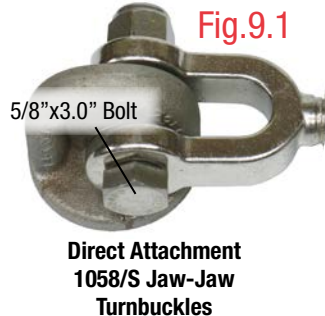
Fig.8

Wood Substrates



Min. 1/8" thread penetration

Fig.9.1



Direct Attachment 1058/S Jaw-Jaw Turnbuckles

Fig.9.2

Direct Attachment No. 1059 Metallic Energy Absorber



7/16"x2.0" Bolt