



SUPER ANCHOR SAFETY®

D-ShakL²™ No.1029/1029-S Instruction/Specification Manual 2024

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.1029: Hot dip galvanized Q235 steel shackle 3/16"x5.0"x2.0" w/No.5003 forged D-Ring
1029-S: 316sst shackle 3/16"x5.0"x2.0" w/ No.5003-S 304sst D-Ring
Captive Backer Plate: 1/16" steel spot welded
Bolt Holes: 2ea 9/16"d. 2ea.5/16"
Min. Tensile Strength: 5,000lb(22.5kN)

Compliance

Bolt/Weld Attached: ANSI Z359.18-17 Type D
WS Screws: OSHA 1926.502
SAS used in this manual = Super Anchor Safety
 *Competent or Qualified Person see OSHA definition.

Captive Backer Plate

Captive backers are designed to keep the D-ring captive and are not required for installation of the anchor if removed. Spot welded backers may disengage the base plate when force, such as hammering or prying are applied. See Fig.2

PPE Requirement

All PPE including SRL's (self-retracting lifelines) must comply with current ANSI, CSA or OSHA fall protection standards. Required to use a personal energy absorber rated for the workers weight.

Connectors: Use only snaphooks, carabiners or rebar hooks with 3,600lb(16kN) gate strengths that are rated for fall protection use and compatible with the anchor D-ring.

Permanent and Temporary Installation

Permanent: Install only with hex head bolts, concrete poured in place J-bolts, engineered wedge anchors or field welded on surfaces that are not subject to moisture or water penetration. See Figs.8,9.

Temporary Installation: Remove from service after final use.

Anchor Attachment Point

Fall Arrest: The structure to which the anchor is attached must be capable of supporting 5,000lb(22.5kN) or 2x the engineered fall protection load.

Fall Restraint: No free fall hazard exposure. The anchorage point must be capable of supporting 3,000lb(13.6kN) or 2x the engineered fall protection load.

Fall Restraint Definition OSHA 1926.751

"A means of fall protection that prevents the user from falling any distance."

Anchor Attachment and Fasteners

Bolt Attached: User supplied adequate length 1/2"d. grade 5, 8, 18-8sst or A-307 all thread and lock nuts as shown at Figs.8,10. Tighten nuts securely to prevent anchor movement. Flat washers may be used on the underside of the bolt penetration.

WS Screws: See Table 1. Use only **SAS** supplied WS screws as specified in this manual. See Fig.2 fastener images. **Do not reuse WS screws.**

Concrete Embedment/ Epoxy Embedment: Poured in place or wedge bolt installations must be engineered by a competent or qualified person*.

Field Welded: Shown at Fig.9, weld the shackle perimeter on all sides.

Welding to be performed by a qualified person.

WARNING! Do not install anchor with nails or fasteners that are not specified by **SAS**.

Specifications of Use

Max Arrest force: 1,800lb(8kN).
User Specifications: 1 person max. wt. 310lb(140kg), including tools and equipment.
Fall Arrest/HLL Systems
Bolt or Weld Attached: Max. free fall 6ft (1.8m).
WS Screws Attached: Max. free fall 2ft (.6m).
 Do not use for HLL system.
Fall Restraint: No free fall exposure.
Non-Specified Use
 Do not use for window washing, work positioning, scaffold tie-off or material lifting.

Fig.1



WARNING!
Do not install WS screws into 9/16" holes

Fig.2

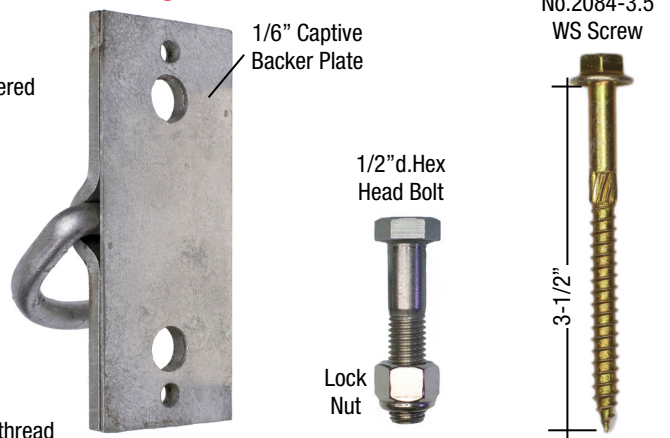


Table 1

Part No./	Pcs	Type	Length	Driver
2084-3.5	10	WS Screw	3-1/2"	3/8" Hex
2078B-3.5	900			

Fig.6



Fig.5
WS Screw Installation



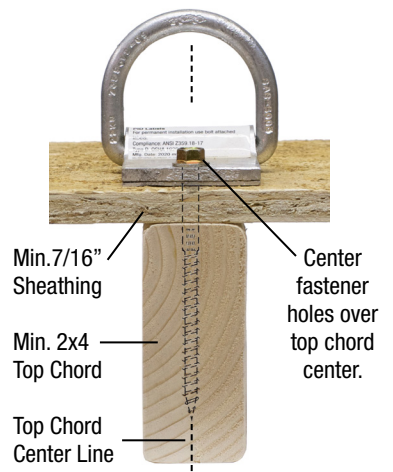
Fig.4

Center Anchor Over Top Chord



Fig.3

WS Screw Installation



Inspection: Inspect prior to each use and annually by a competent person*.

- ☒ **Remove From Service. Replace/Repair.** ☑
- Top chord WS screw blow outs. ☒
- D-ring/shackle deformed/cracked ☒
- PID labels missing. **Replace.** ☑
- Loose attachment bolts. **Tighten.** ☑
- Extreme red rust. ☒

Horizontal Lifeline Systems

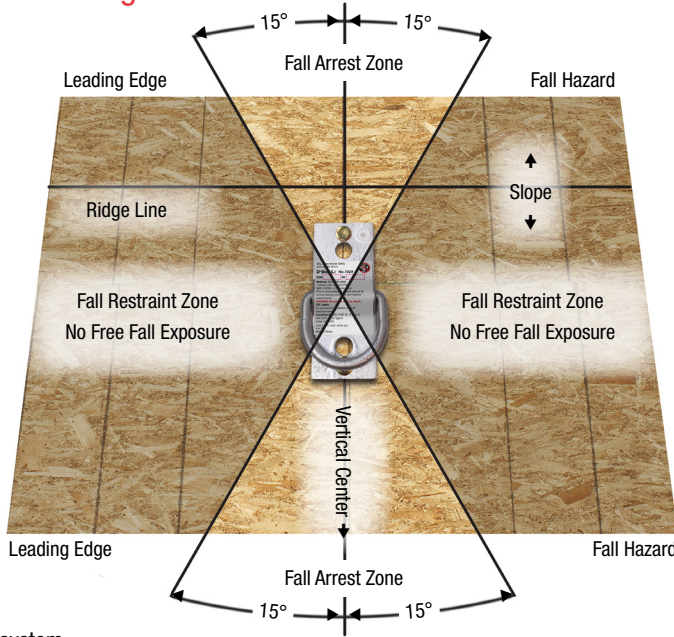
- Install under the supervision of a competent or qualified person*.
- Bolt attached or field welded.
- Use only No.1335 30° HLL cables w/max.20ft between anchors.
- Use intermediate anchors for multiple leg systems.
- Personal energy absorber, SLR class 1 or SRL-LE class 2 required.
- Optional No.1325 HLL rope system.

Wood Top Chord Fall Arrest/Fall Restraint

- Single person anchor temporary installation only.
- Fall arrest service zones max. 15° off vertical center.
- Max. free fall 2ft.

Warning! WS screws not rated for HLL system.

Fig.7



Permanent/Temporary Installation

Bolt Attached to Structural Steel

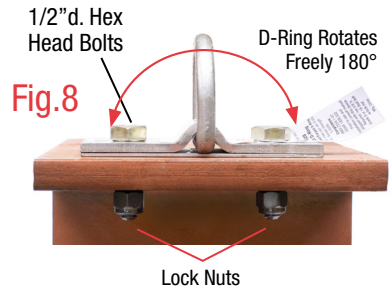


Fig.8

Permanent Installation

Field Welded to Structural Steel



WARNING! Do Not Weld D-Ring
Must rotate freely after welding.
Orient D-Ring in direction of service load.

Fig.10

Wood Top Chord

Bolt attached single leg HLL system w/backer plate. See Fig.12.

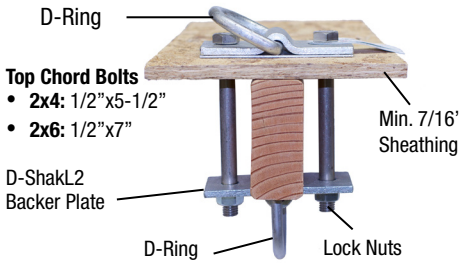


Table 2. Bolt/Field Weld or Top Chord

Service Load	No. Persons per/Leg
Fall Arrest	1
Fall Restraint	2

HLL Bolt Attached/Field Welded Anchors

Multiple leg HLL systems can be rigged using A-end, B-end and intermediate anchors. The anchor base plate must align parallel with vertical center in order to allow 2 snaphooks to be attached.

Fig.11

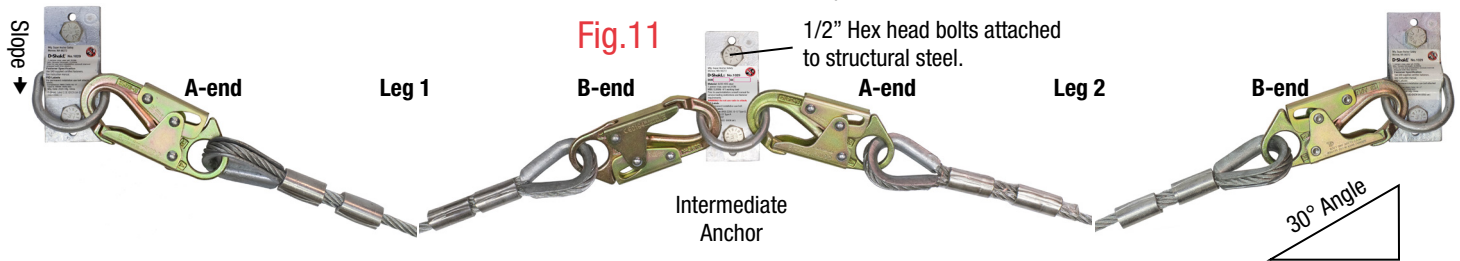


Table 3. 30° Fixed Length HLL Cable

Part No.	Rafter Spacing	Cable Length
1335-10	10ft	11'-6"
1335-12	12ft	13'-6"
1335-14	14ft	16'-0"
1335-16	16ft	18'-4"
1335-18	18ft	20'-6"
1335-20	20ft	23'-0"

PID Label Pack

Permanently installed anchors require to use No.1029 PID label pack. See Figs.8,9.

Primary Labels

Fastener

Inspection

Fig.12

HLL Wood Top Chord Bolt Attached
Single leg system anchors are bolt attached to the top chord as shown at Fig. 10.

