



SUPER ANCHOR SAFETY®

D-ShakL₂™ No.1029/1029-S

Instruction/Specification Manual 2022

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" x 5.0" x 2.0" w/No.5003 forged D-Ring

1029-S: 316sst shackle 3/16" x 5.0" x 2.0"

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: ANSI Z359.18-17 CSA Z259.15-22

SAS used in this manual = Super Anchor Safety
*Competent or Qualified Person see OSHA definition

Specified Use

Fall Arrest, fall restraint or Horizontal Line Systems.

User Specifications: 1 person max. user wt. 310lb(140kg), including tools and equipment.

Free Fall: Max. length 6ft(1.8m).

Max Arrest force: 1,800lb(8kN).

Non-Specified Use

Do not use for window washing, suspended work, scaffold tie-off or material lifting.

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.13,14,15.

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.13,14. Tighten nuts securely to prevent anchor movement. Flat washers may be used on the underside of the bolt penetration.

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

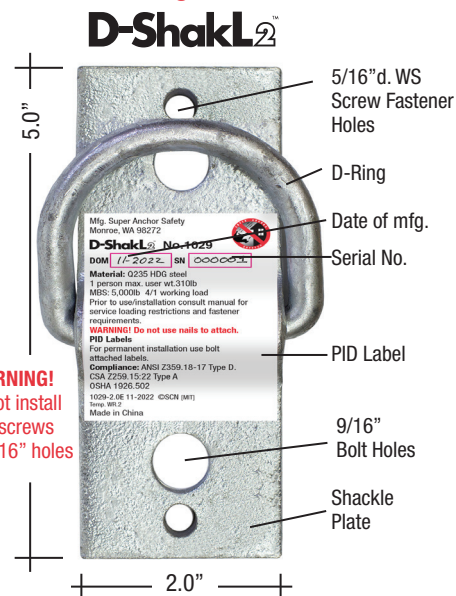
Concrete Embedment/Epoxy Embedment: Poured in place or wedge bolt installations must be engineered by a competent or qualified person*.

Field Welded: Shown at Fig.15, 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**.

Fig.1



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

Fig.2

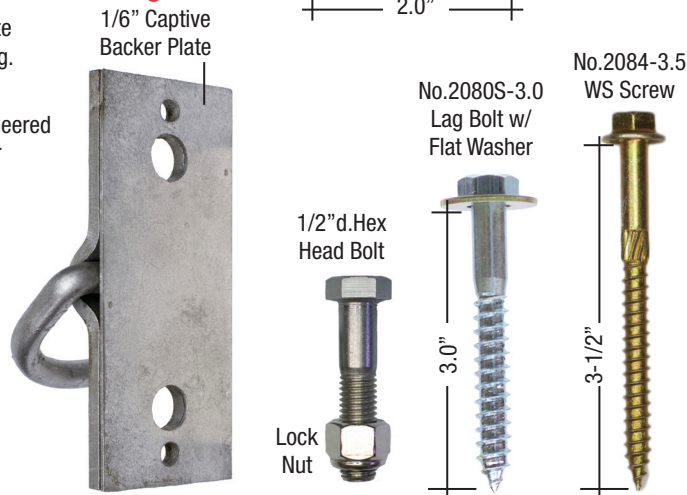


Table 1

Part No./	Pcs	Type	Length	Driver
2084-3.5	10	WS Screw	3-1/2"	3/8" Hex
2078B-3.5	900			
2080S-3.0	20	3/8" Lag Bolt	3.0"	9/16" Socket

Fig.4

Center Anchor
Over Top Chord



Fig.3

WS Screw/Lag Bolt
Installation

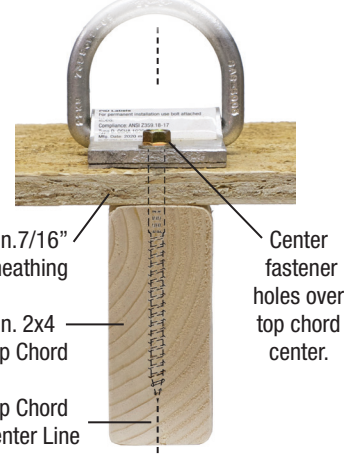


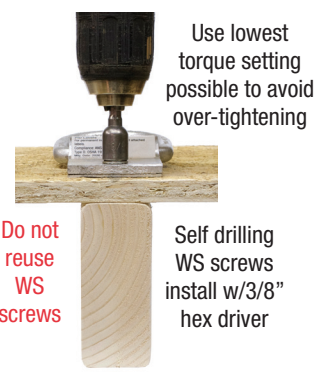
Fig.6



WARNING!
Do not
hammer
screws or
lag bolts

Fig.5

WS Screw Installation



Lag Bolt Installation

Use 2ea No.2080S 3/8"x3.0" lag bolts w/flat washers centered over top chord as shown at Fig.7.

- Mark bolt hole location and drill a pilot hole 3" deep with a 1/4" drill as shown at Fig.7.
- Install bolts with a 9/16" socket or hex wrench flush with anchor shackle plate as shown at Fig.8.

WARNING! Do not install lag bolts without drilling a pilot hole. Fracture of the top chord will result.

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

☒ Remove From Service. ☑ Replace/Repair

- WS or Lag bolt top chord blow outs. ☒
- D-Ring/Shackle deformed/cracked ☒
- PID labels missing. ☑
- Loose attachment bolts. ☑
- Extreme red rust. ☒

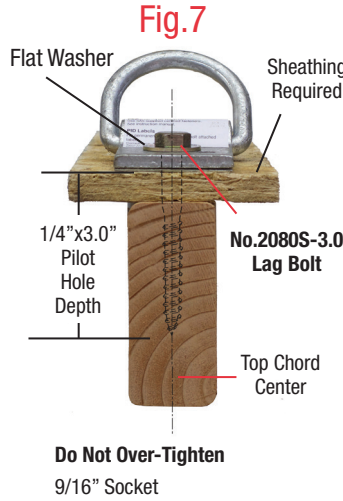


Fig.9

Fall Arrest/Fall Restraint Service Zones

Use for single person PPE anchor. Fall arrest service load must not exceed 30° off vertical center.

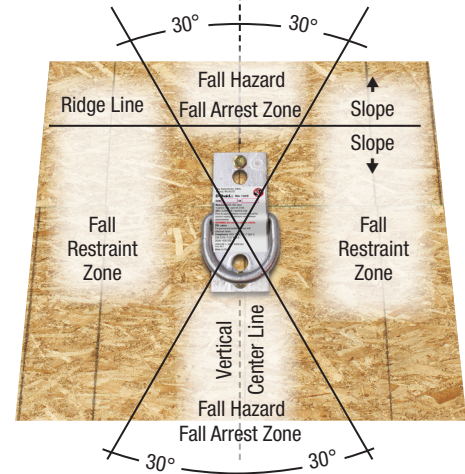


Fig.13

Bolt Attached Steel Substrate

Bolts must penetrate lock nuts by 1/8"

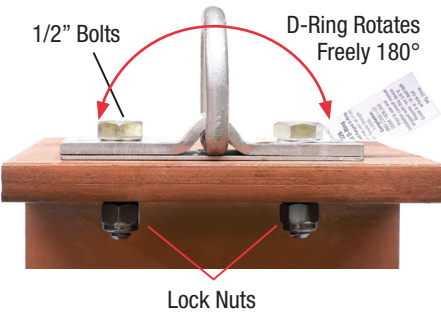


Fig.14

Bolt Attached Wood Framing

Backer plate may be used for fall protection

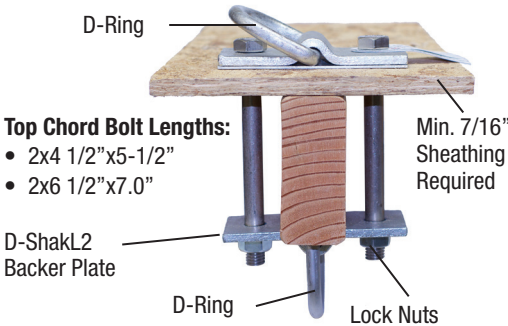


Fig.15

Field Welded



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

Horizontal Lifeline Requirements

HLL cables are required to be rigged at a 30 degree angle perpendicular to the service load direction.

- No.1335 30°fixed length HLL cables. 20ft max. spacing between anchors.
- Install intermediate anchors for multiple leg system.
- Optional No.1325 HLL rope system
- Install under the supervision of a competent or qualified person*.
- Personal energy absorber is required.

Fig.10



Table 2 Wood Framing Fig.10

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

Table 3 Bolt Attached Figs.11,12,13,14,15

Service Load	No. Persons ea/Leg
Fall Arrest	2
Fall Restraint	3

Wood Framing See Table 2 HLL attached with WS No.2084-3.5 Wood screws into top chord.

Fig.11

Bolt Attached Anchors

See Table 3



Fig.12



PID Label Pack
Permanently installed anchors require to use No.1029 PID label pack. See Figs.13,15.

Primary Fastener Inspection

Temp. WB 2.0
1029-1.0E 11-2022 (M1)

Mfg. Super Anchor Safety
Monroe, WA 98272

D-ShakL2
No. 1029

DOM []
SN []

Material: 0235 HDG steel
1 person max. user
wt.310lb MBS: 5,000lb
4/1 working load
Prior to use/installation consult manual for service loading restrictions and fastener requirements.
WARNING! Do not use nails to attach.
Made in China

Temp. WB 2.0
1029-1.1ES 11-2022 (CSA M1)

Permanent Installation Requirements Consult Manual for Specifications:
Attach with 2ea 1/2" d, grade 5, 8 or 18-8sst bolts and lock nuts. Calculate correct bolt length. Use permanent PID labels supplied by SAS.

Para Instalaciones Permanentes, Consultar los Requisitos en el Manual de Especificaciones
Sujetar con 2 pernos de 1/2" diametro grado 5, 8 o 18-8 y tuercas de seguridad. Calcule la longitud correcta de los pernos. Emplee etiquetas permanentes para identificación del producto suministradas por SAS.

Compliance:
ANSI Z359.18-17 Type D, CSA Z259.15-22 Type A, OSHA 1926.502

Temp. WB 2.0
1029-1.2ES 11-2022 (CSA M1)

Fastener Options
Consult **D-ShakL2** Bolt and WS wood screw specification.

Sujetadores Opcionales
Consultar la noticia adicional para anclas D-ShakL acerca del empleo de pernos de cabeza hexagonal para madera y los tornillos de madera WS.

Temp. WB 2
1029-2B Insp-FS 11-2022 (CSA M1)

Remove from service if subjected to a fall or evidence of damage or extreme corrosion.

Retirar del servicio si es sometida a una caída, si muestra señales de daños o si presenta alta corrosión.

Inspection

Year	Year