



SUPER ANCHOR SAFETY®

Hinge-2™ Anchor 12-2016

Engineers Report Fastener Strength in Concrete

No. 3013 Hinge-2

Materials Specification

3013-D: 1/8" Q235 steel
w/Dacromet Coating
3013-S: 1/8" 430sst
D-Ring: SAS No. 5003/s/x

Anchor Dimensions

Leg lengths 9.0"
Leg width 3.0"
Fastener Holes 5/16"

Instructions For Anchor Use

User must comply with SAS Hinge-2 2015 Instruction/Specification manual or any newer version supplied with anchor at time of purchase.

Fastener Requirement

5 screws in center holes of leg A and leg B as shown at Fig.2.

Fastener Specifications

Mfg. Simpson Strong Tie.
Titen®2/Titen HD concrete screw
1/4"x1-3/4" min. length.

Concrete Specification

Install fasteners as specified in Fig.1 and Table 1.
Concrete strength minimum 2,000psi cured.

Direction of Load

Use of ANSI or CSA 3,600lb gate strength connectors are required. Load may be applied at 360° to the anchor D-ring as shown at Figs.2,3.

Supporting Structure

This report does not address the strength capacity of the structure to which the anchorage device is attached. ANSI and OSHA standards require that the anchor attachment point is capable of supporting 5,000lb or 2 x the engineered fall protection load.

Specification of Use 1 Person

Max. body weight of 310lb(140kg)
Maximum free fall length 6ft(1.8m)
Maximum arrest force 1800lb(8kN)
PPE Energy Absorber required.

Non-Specified Use

Not specified for static loading.
Do not apply force in direction "A" as shown at Fig.1.

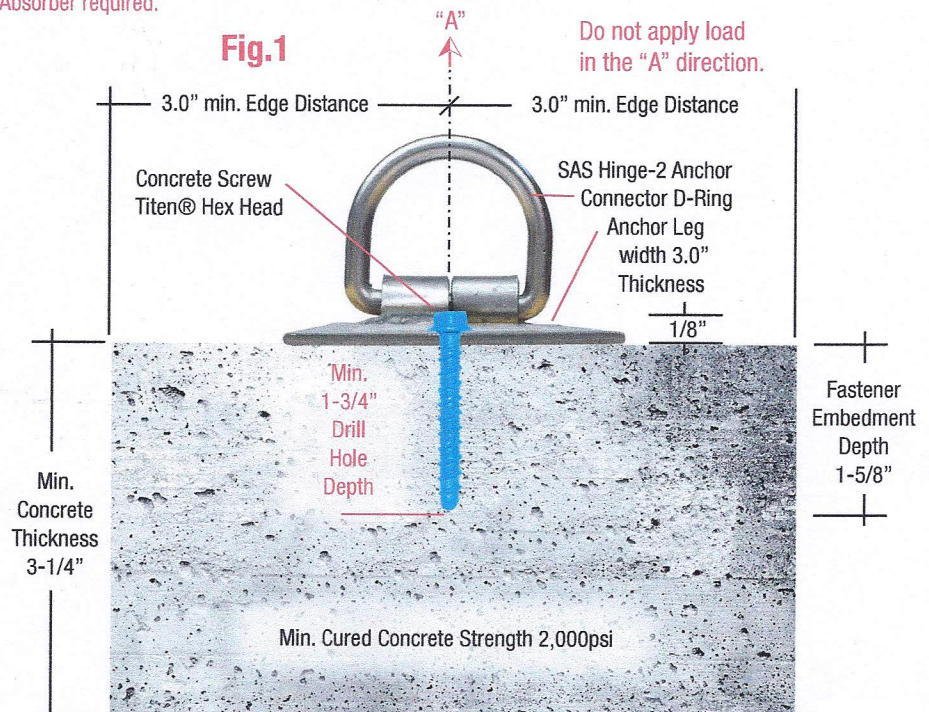


Table 1: Anchor Strength in 2,000lb PSI Concrete:

Fastener Diam.	Drill Bit Diam.	Fasteners Required	User Max Arrest Force/Free Fall	Safety Factor x2	Max Strength 10/fasteners
1/4"	3/16"	10	900lb	1,800lb	2,500lb

Note: Fasteners installed as shown in Fig.1

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Engineer's Stamp:

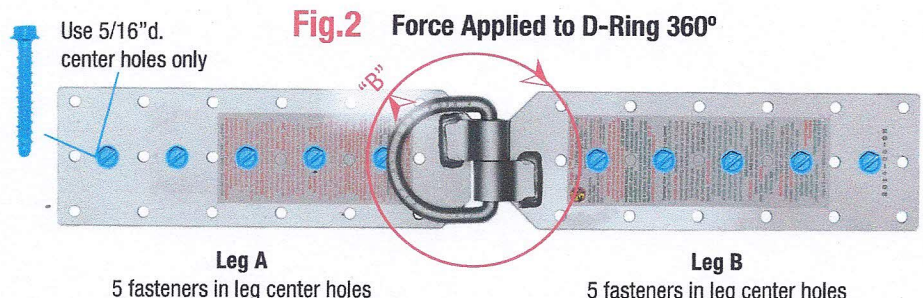
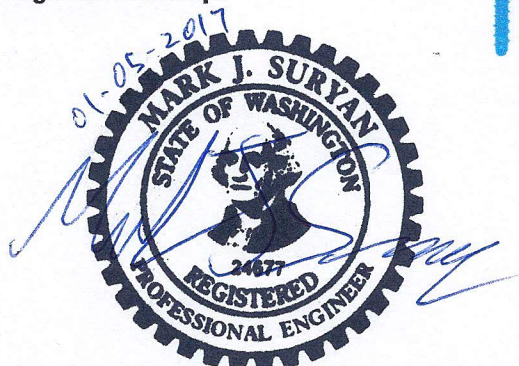


Fig.3

Class 1 connector

