

SUPER ANCHOR SAFETY®

Type B Metal Deck Fastener Specifications 08-2020 Addendum for Hinge2™/RS-20 Fall Protection Anchors

Fall Protection Specification:

User Wt. 1 person per anchor with a max. wt of 310lb including tools and equipment.

PPE: Required to use a full body harness and an energy absorber with a maximum avg. fall arrest force of 900lb.

Specification of Use

Super Anchor Safety (SAS) mfg. Hinge2 and RS-20 model fall protection anchors only and do not apply to similar type anchors mfg. by others. Consult the primary "Instruction/ Specification" manual supplied with the anchor at the time of shipping. The service range for fall arrest and work positioning are specified on pages 3 and 4.

Fastener Specifications

Use only SAS supplied fasteners specified below:

- Blazer™ No. 12-14 SD Self Drilling Screws
- HeadLok™ SP Self Drilling Spade Tip Adhere closely to the number of fasteners and the specified fastener hole (FH) positions as noted on pages 3 and 4.

Type B Metal Decking

Installation for type B metal decking gauges 18, 20 and 22, see Fig.D. Anchors must be installed over the center of the top flute as shown at Figs. E and F.

RS-20 No. 2816/2916-D/2816-S

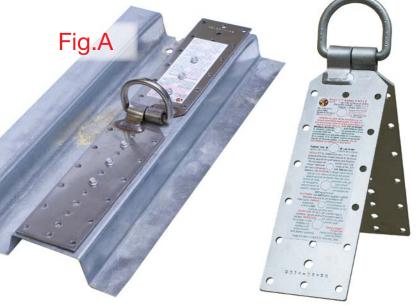
Use for temporary or permanent installation. Use No.2816-S 100% stainless steel for installations exposed to to salt air.

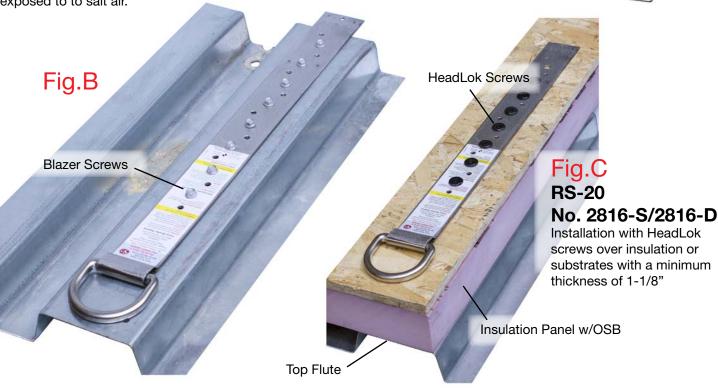
Hinge2 No. 3013-D / 3013-S

Temporary installation only. Must be removed after use. Install directly onto metal decking with Blazer screws. For substrates or insulation panels over 2-1/8" thick, use HeadLok screws as shown at Fig.F. May be installed in the field as shown at Fig.A or at a ridge juncture provided top flutes line up on both sides

Hinge2 No. 3013-S 430sst

Hinge2 No. 3013-D **Dacromet Coated**





Metal Deck Manual 08-2020 **English Version** Page 2

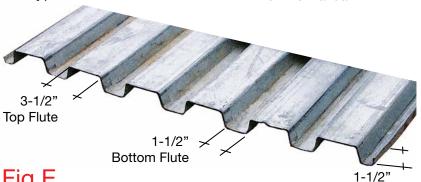
Fig.D

Type-B Metal Decking

Typical Dimensions:

Metal Decking Structural Attachment

Metal decking must be attached to the supporting structure and capable of withstanding the intended fall protection load as specified in pages 3 and 4 of this manual.



Installation / Inspection

Prior to installation, the fastener length and thread penetration through the decking and substrate should be verified by a competent

Inspection Before Use: As shown at Figs. E/F inspect anchor locations from the underside of the metal decking to confirm the fastener count and and penetration depth as specified in this

- Blazer min. thread/tip penetration = 7/8"
- HeadLok min. thread/tip penetration = 1/2"

Fig.E

Hinge2 or RS-20

Fastener selection example



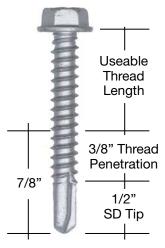
1/8" Leg 7/16" OSB 1/16" Decking 7/8" Min. Penetration

1-1/2" Total

Blazer 12-14 SD Tip

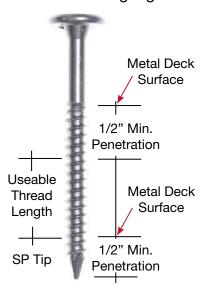
5/16"Hex Head Drive

Panel Depth



HeadLok SP Tip

Spade tip for metal 18-22 gauge.



Blazer Fastener Length Calculator

SAS	Fastene	er Specs.	Substrate		
Part No.	Length	△Thread	Min."	Max."	
2033-1.5	1.5"	5/8"	1/8	5/8	
2033-2.0	2.0"	1-1/8"		1-1/8	
2033-3.0	3.0"	2-1/8		2-1/8	

△ Net useable thread length

No.2032-SP312

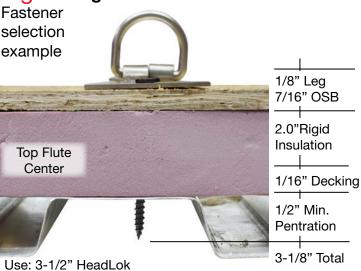
Spider Drive

HeadLok Length Calculator:

Ticadeok Echigan Galodiatori						
SAS	Fastene	r Specs.	Substrate			
Part No.	Length	Thread	Min."	Max."		
	2-7/8"	2.0"	1-1/4	2-3/8		
	2-7/8"	2.0				
	3-1/2"		1.0	3.0		
	4-1/2"		2.0	4.0		
2032-C	5.0"		2-1/2	4-1/2		
Specify	6-1/2"		4.0	6.0		
Length	7-1/2"	△3.0"	5.0	7.0		
	8.0"		5-1/2	7-1/2		
	9.0"		6-1/2	8-1/2		
	10.0"		7-1/2	9-1/2		
	12.0"		9-1/2	11-1/2		

 \triangle 3" Thread length = 2.0" substrate thickness range.

Fig.F Hinge2 or RS-20



Metal Deck Manual 08-2020 English Version Page 3

Anchor Model: Hinge2 No. 3013/3013-S **Fastener Types:**

- Blazer Self Drilling Screw No.12-14 Use 3/16" and 5/16" fastener Holes
- HeadLok SP Tip self drilling screw
 Use 5/16" center fastener holes only

Fasteners are required to be installed at locations shown as solid red circles.

18-22ga. Fig.1

Load Applied Angle "A" 3,600-5,000lb Blazer 12-14 Screws Only 18-22ga. Fig.2

Load Applied Angle "B" 3,600lb

Blazer or HeadLok Screws

18-22ga. Fig.3

Load Applied Angle "B" 5,000lb

Blazer or HeadLok Screws

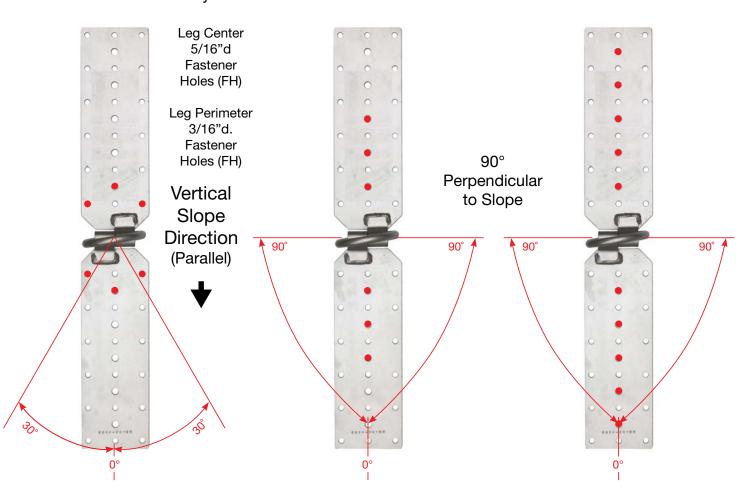


Table 1:

Table 1.						
Metal Decking	Service Angle	See Fig.	Strength Rating	5/16"d. FH	3/16"d. FH	Total Fasteners
18	Δ	1	3,600lb	2	1	6
20	0°-30°	I	5,000lb		4	
22		2	3,600lb	6	α	6
	В		3,00010	U	<u>v</u>	O
ga.	0°-90°	3	5,000lb	10	Ø	10

Blazer SD Screw



HeadLok SP



SUPER ANCHOR SAFETY®

Anchor Model: RS-20 No. 2816/ 2816-D/2816S **Fastener Types:**

- Blazer Self Drilling Screw No.12-14 5/16" fastener holes
- Maximum substrate depth 2-1/8" using 3.0" length screws

Fasteners are required to be installed at locations shown as solid red circles. Optional: For RS-2816 single hole models use 3/16" fastener holes nearest the red circles.

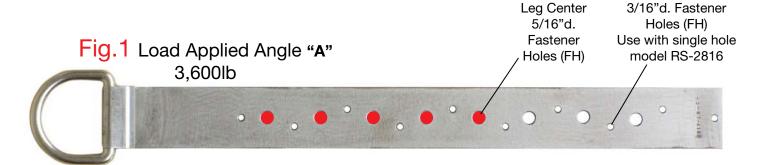


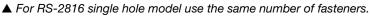
Fig.2 Load Applied Angle "A" 5,000lb 3,600lb

Fig.2 Load Applied Angle "B" 1,800lb 3,600lb



Table 2:

Metal Decking	Service Angle	See Fig.	Strength Rating	5/16"d. FH	▲3/16"d. FH	Total Fasteners
18	18 A	1	3,600lb	5	Ø	5
20	0°-30°	2	5,000lb	7	Ø	7
22						
ga.	В	2	1,800lb	7	Ø	7
	90°-30°					



2-7/8" Blazer Self **Drilling Screw** Min. Length 1.5"

SP-Tip Screw

Min. Length

Min. Substrate Thickness over Metal Deck 1-1/4"







Fig.2 Load Applied Angle "B" 1,800lb