

Selectively Flexible System with Grade 5 Performance

SFS 5



SFS-5 self-drilling fasteners are made from alloy steel and are manufactured with a selective hardness heat treat process to give the load bearing part of the fastener grade 5 specification performance (RC 28-34), with a higher case hardness for the drill point and lead-in threads for drilling and tapping into steel exceeding 50 ksi. The lower case hardness of the load bearing area increases the fastener's ductility helping to prevent hydrogen embrittlement.

Product Specifications

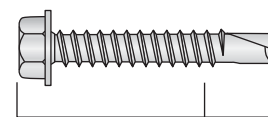
Diameters: #10, #12 and 1/4"

Head Styles: Hex Washer Head, Philips Undercut Flat

Thread Forms: 10-16, 12-14, 12-24, 1/4-14, 1/4-20

Drill Points: SD3, SD4, SD5

Finish: vistaCorr™ - proprietary coating providing improved appearance, corrosion resistance, durability and installation performance.
Salt spray per ASTM B117 - 1,000 hrs.



Grade 5 head
and threads

Higher-hardness
lead threads
and point

Applications

- ☉ Curtain wall applications
- ☉ Rainscreen and cladding
- ☉ Faster fastening than a traditional Grade 5 bolt and Nut
- ☉ All fenestration systems
- ☉ Solar panel systems connecting aluminum to steel



SFS-5 Head
Marking

SFS-5 Product Selection

Material No.	Description	Drill Pt.	Drill & Tap Capacity	Load Bearing Area	Carton Qty.	Carton Wt.
SFS-5 12-14 Self-Drill; HWH						
1429720	10-16 x 3/4"	SD3	.150	.380"	5000*	40
1429731	12-14 x 7/8"	SD3	.187	.380"	4000*	44
1429732	12-14 x 1"	SD3	.187	.500"	4000*	44
1429734	12-14 x 1-1/2"	SD3	.187	1.000"	2500*	38
1429736	12-14 x 2"	SD3	.187	1.500"	2000*	16
SFS-5 12-14 Self-Drill; PUF (Phillips Undercut Flat)						
1429733	12-14 X 1"	SD3	.187	.500	4000*	36
SFS-5 12-24 Self-Drill; HWH						
1429735	12-24 x 1-3/4"	SD5	.500	.800"	2000*	36
SFS-5 1/4-14 Self-Drill; HWH						
1429737	1/4-14 x 1"	SD3	.187	.450"	2500*	45
1429738	1/4-14 x 1-1/2"	SD3	.187	.950"	2000*	46
1429739	1/4-14 x 2"	SD3	.187	1.450"	1500*	41
1429740	1/4-20 x 1-1/8"	SD4	.312	.500"	2000*	40
1429741	1/4-20 x 1-1/2"	SD4	.312	.835"	2000*	46
1429742	1/4-20 x 2"	SD4	.312	1.335"	1500*	41
1429743	1/4-20 x 2-1/2"	SD4	.312	1.830"	1000*	19

* Indicates available in bulk carton only

Technical Data

Pullout Test Results - Steel			Panel Thickness							
Screw Size	Point Type	Drill Cap.	18	16	14	12	1/8	3/16	1/4	5/16
10-16	3	.150	390	489	628	1575	1685	-	-	-
12-14	3	.187	389	515	704	1672	2048	2895	-	-
1/4-14	3	.187	391	525	690	1925	2224	3904	3562	4501
1/4-20	4	.312	-	520	643	1903	2542	4225	5408	6612

Shear Test Results - Steel			Panel Thickness						
Screw Size	Point Type	Drill Cap.	18-18	18-14	16-16	14-14	1/8-3/16	3/16-1/4	1/4-12 ga.
10-16	3	.150	1351	1720	1448	-	-	-	-
12-14	3	.187	1301	2120	1644	1801	-	-	-
1/4-14	3	.187	1391	2322	1664	2401	2549	-	-
1/4-20	4	.312	1341	2062	1577	2455	2820	2801	2711

Pullout Test Results - Aluminum			Panel Thickness		
Screw Size	Point Type	Drill Cap.	1/8	1/4	3/8
10-16	3	.150	893	-	-
12-14	3	.187	931	2276	-
1/4-14	3	.187	1001	2412	-
1/4-20	4	.312	891	2080	3644

Shear Test Results - Aluminum			Panel Thickness	
Screw Size	Point Type	Drill Cap.	1/8-1/8	18/-14
10-16	3	.150	1429	-
12-14	3	.187	1793	2503
1/4-14	3	.187	2002	2874
1/4-20	4	.312	2006	2913

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SFS intec, Inc.
Division Construction
1045 Spring Street
PO Box 6326
US-Wyomissing, PA 19610

800 234 4533
T +1 610 376 5751
F +1 610 376 8551
us.construction@sfsintec.biz
www.sfsintecusa.com

SFS intec, Inc. - Canada
40 Innovation Drive
Dundas, ON L9H 7P3
T +1 905 689 540
ca.info@sfsintec.biz
www.sfsintec.ca

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