



# Flex5<sup>®</sup> Selectively hardened fasteners with **Grade 5** **performance**

Photo provided by MG McGrath.  
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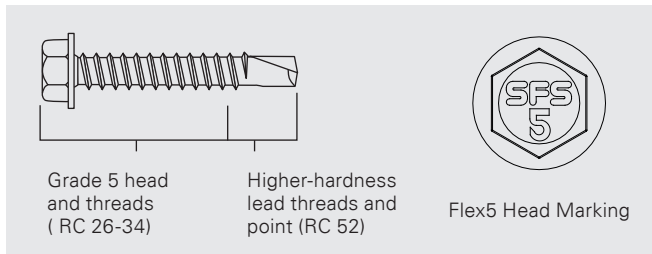
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# Flex5<sup>®</sup> selectively hardened fasteners with Grade 5 performance


Flex5<sup>®</sup> 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 26-34), with a higher hardness for the drill point and lead-in threads (min. RC 52) for drilling and tapping into steel. The lower hardness of the load bearing area increases the fastener's ductility helping to prevent embrittlement failure.




## Application

- 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
- Dissimilar metal applications when used with aluminum


## Product Selection — #10-16 Flex5<sup>®</sup> SD3

	Material No.	Fastener Length		Load Bearing Area		Description	Carton Wt. (lbs.)	Carton Qty.*
		(in)	(mm)	(in)	(mm)			
	1429720	3/4"	19	0.380"	9.7	FS3-#10x3/4-HW5/16-BQ	40	5,000


## Product Selection — #12-14 Flex5<sup>®</sup> SD3

	Material No.	Fastener Length		Load Bearing Area		Description	Carton Wt. (lbs.)	Carton Qty.*
		(in)	(mm)	(in)	(mm)			
	1429731	7/8"	22	0.380"	9.7	FS3-#12x7/8-HW5/16-BQ	44	4,000
	1429732	1"	25	0.500"	12.7	FS3-#12x1-HW5/16-BQ	44	4,000
	1429734	1-1/2"	38	1.000"	25.4	FS3-#12x1-1/2-HW5/16-BQ	38	2,500
	1429736	2"	51	1.500"	38.1	FS3-#12x2-HW5/16-BQ	16	2,000

## Product Selection — 1/4-14 Flex5<sup>®</sup> SD3

	Material No.	Fastener Length		Load Bearing Area		Description	Carton Wt. (lbs.)	Carton Qty.*
		(in)	(mm)	(in)	(mm)			
	1429737	1"	25	0.450"	11.4	FS3-#14x1-HW3/8-BQ	45	2,500
	1429738	1-1/2"	38	0.950"	24.1	FS3-#14x1-1/2-HW3/8-BQ	46	2,000
	1429739	2"	51	1.450"	36.8	FS3-#14x2-HW3/8-BQ	41	1,500

## Product Selection — 1/4-20 Flex5<sup>®</sup> SD4

	Material No.	Fastener Length		Load Bearing Area		Description	Carton Wt. (lbs.)	Carton Qty.*
		(in)	(mm)	(in)	(mm)			
	1429740	1-1/8"	29	0.500"	12.7	FS4-#14x1-1/8-HW3/8-BQ	40	2,000
	1429741	1-1/2"	38	0.835"	21.2	FS4-#14x1-1/2-HW3/8-BQ	46	2,000
	1429742	2"	51	1.335"	33.9	FS4-#14x2-HW3/8-BQ	41	1,500
	1429743	2-1/2"	64	1.830"	46.5	FS4-#14x2-1/2-HW3/8-BQ	19	1,000

\*Product bulk carton packed.

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Metric values are approximate conversions.

All information is non-binding and without guarantee. Before using the products, all specifications and calculations must be checked by a suitably qualified person and local regulations must be observed. This document is subject to revision. We reserve the right to make technical changes. (10/2021, V1.01)



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## Coating and Corrosion

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

## Approvals



Listed on Intertek CCRR-0347 report  
Evaluated per ICC-ES AC118

## Allowable Design Values – Pull-out (steel)

Screw Size	Point Size	Drill Capacity	Substrate Thickness								
			20 ga	18 ga	16 ga	14 ga	12 ga	1/8"	0.141"	3/16"	5/16"
#10-16	SD3	0.150"	82	120	135	215	–	–	466	–	–
#12-14	SD3	0.187"	80	117	138	–	357	–	–	915	–
1/4-14	SD3	0.187"	–	152	191	265	437	572	–	924	–
1/4-20	SD4	0.312"	–	–	191	275	445	–	–	923	1322

## Allowable Design Values – Bearing Shear (steel)

Screw Size	Point Size	Drill Capacity	Combination of Attachment Thickness					
			20ga–20ga	18ga–18ga	16ga–16ga	14ga–14ga	12ga–12ga	1/8"–1/8"
#10-16	SD3	0.150"	249	333	433	490	–	–
#12-14	SD3	0.187"	266	343	515	699	657	–
1/4-14	SD3	0.187"	218	346	461	643	1059	–
1/4-20	SD4	0.312"	214	329	461	643	1059	1211