



Architectural / Commercial Construction Fasteners

Design, Manufacture & Supply

SFS is the building envelope specialist. We serve the construction industry with fastening solutions for low slope roofing, post-frame construction, metal building systems, commercial construction facades and curtain walls, subframe support systems, offsite and modular construction and mass timber construction.

But we're not just a fastener company. We have designed and developed innovative installation tools that increase productivity and make installation more accurate and easier.

At SFS, our vertically integrated supply chain keeps the fastener production, coating and packaging of our products in our hands. This provides greater assurance that we will live up to our quality, delivery and service commitments.

Together with our expertise, we can help you find the right product and systems for your project.

Table of Contents

Facade Panel Attachment	7
Curtain Wall Solutions	8
Insulated Metal Panel Attachment	9
Sub Frame Installation	9
NVELOPE Cladding Systems	10
NVELOPE Fasteners	11

Intense Color, Ultimate Performance

Our VistaCoat® premium system is a proprietary high-performance finish that is durable, provides exceptional UV and corrosion resistance and is environmentally friendly. This system is designed to endure rigorous fastener applications and provide the highest quality installed product.

SFS has the ability to color match to any panel color, but we've already made it easy by offering a broad pallet of standard colors that match the majority of OEM panels. Check out our online color selector tool – its easy to find the SFS color code to match many OEM panel colors.

If you are a panel manufacturer and want fasteners perfectly matched to your panels, just submit a color chip to us.

SFS Standard VistaCoat® colors

The below chart is a representation of our standard VistaCoat® color offering. Color swatches are a representation only, and not to be used for exact matching.

White

- 014 Bright White
- 001 White
- 348 Bone White
- 330 Warm White
- 818 Sierra White

Brown

- 020 Tan
- 548 Ivory
- 248 Light Stone
- 415 Beige
- 109 Sand Beige
- 422 Taupe
- 230 Desert Brown
- 110 Brown
- 374 Dark Brown

Green

- 385 Patina
- 052 Teal Green
- 660 Hemlock
- 232 Evergreen
- 732 Denali Green
- 228 Green
- 925 Classic Green
- 798 Hartford Green

Red

- 102 Crimson Red
- 928 Terra Cotta
- 890 Red
- 691 Barn Red
- 074 Colonial Red
- 393 Burgundy

Bronze

- 537 Medium Bronze
- 042 Burnished Slate
- 324 Dark Bronze

Blue

- 432 Blue Teal
- 012 Blue
- 843 Regal Blue
- 421 Navy

Black

- 023 Black
- 507 Matte Black

Gray

- 850 Ash Gray
- 302 Pearl Gray
- 578 Old Town Gray
- 696 Pewter Gray
- 091 Zinc Gray
- 051 Charcoal Gray
- 416 Slate Gray

Metallic

- 1160 Champagne Metallic
- 1161 Silver Metallic
- 1162 Zactique Metallic
- 1116 Copper Penny Metallic



We're Committed to Service

At SFS, positive customer experience is paramount. We are committed to fulfilling customer requirements by going above and beyond expectations. We blend proactive engineering and holistic add-on services to provide our customers end to end solutions.

Our services at a glance

Engineering services

Our highly creative technical specialists provide a systematic approach. This includes multi-disciplined engineering services which ensure optimal performance of the building envelope.

Services for facade framing systems

We are experts in design development, shop drawings and submittal calculations on complex building facades.

Order and delivery services

Our reliable order processes and worldwide delivery network, ensure complete and on-time as ordered service.

Job site services

Our professional network offers on-site product training.

Tool repair program

We offer quick turn-around repair service of SFS productivity tools.

eLogistics

Our automated logistics processes with track and trace features mean customers spend less time from order to delivery.



Our Online Power Tools



SFS connects you to the information you need with powerful, online tools. Easy to use, these tools take the guess work out of the equation. You can feel confident when you place an order that you will receive exactly what you need.

NVELOPE budget calculator

Quickly and easily estimates the square foot cost of NVELOPE thermally broken cladding support system materials needed for your project.

NVELOPE DesignRX

Design a rainscreen bracket system dependent on factors such as local wind loads, height of the facade, substrate being fixed to, selected cladding material and the cladding zone. All NVELOPE cladding systems can be engineered to project specific requirements.

Fastener color selector

Makes finding the perfect SFS color match to an OEM panel easy.

Panel clip product finder

Provides all the SFS standing seam roof panel clips that work with your roll forming equipment and attachment method.

VistaVent® ridge ventilation product finder

Identifies the SFS product which is cut to fit your panel profile.

VistaFoam® closure product finder

Three easy ways to find closure cut to fit your panel profile.

Require more information?

This brochure is just an overview of the many products and services SFS has to offer. You may find you need more information before you are ready to buy... and SFS has it available for you. Always feel free to contact us by phone or email. Or visit our website where you can easily find a vast array of information at your fingertips.

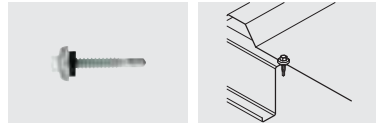
Product data sheets

We have indepth product data sheets available on most products published on our website for easy viewing or download. These data sheets provide information on:

- Application
- Features and benefits
- Product specifications
- Engineering drawing
- Performance values
- Product selection
- Installation and application considerations

SFS

#12-14 ZAC® Impax SD3 (5/16") Metal to Metal Fastener



Features and Benefits

- Zinc alloy cast head that will never rust
- Precision cold forged assuring superior strength and the fastest seating time performance
- Designed to have low driving and thread engagement torque and provide maximum clamping load
- Special long pilot length to accommodate notched profiles
- Accommodates EPDM sealing washer for a consistent weather tight seal
- Long life fastener limited warranty

Application
Manufactured for light and medium gauge metal application.

Product Selection

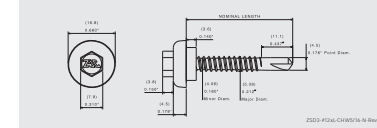
Material No.	Fastener Length	Thread Length*	Description
794238	1"	Full	ZS03-#12
795826	1-1/4"	Full	ZS03-#12
795851	1-1/2"	Full	ZS03-#12
796645	2"	Full	ZS03-#12

*Plain product (except ZS03 pieces, unless otherwise noted)
*Note - Thread length measured from end of pilot length to end of the thread

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#12-14 ZAC® Impax SD3 (5/16") Metal to Metal Fastener



Product Specifications

Dimension	#12 (5.38 mm)	Washer	EPDM sealing washer
Threads Per Inch	14	Drill Point	S03
Head Style	5/16" dia Zinc alloy capped HWH AF (7.9 mm)	Drill Capacity	0.532"-0.510" (Ø 3.889 mm-5.334 mm)
		Thread Major Dia	0.212" (Ø 5.38 mm)
		Thread Minor Dia	0.162" (Ø 4.06 mm)

Performance Data**

Material Strength	Pull Out Strength Steel	ICC precast 45 ksi		SFS testing 50 ksi	
		Steel	Concrete	Steel	Concrete
36 ksi (248 MPa)	12.3 k (2760 N)	16 ksi (110 MPa)	4.0 k (900 N)	16 ksi (110 MPa)	4.0 k (900 N)
48 ksi (331 MPa)	16.4 k (3660 N)	20 ksi (138 MPa)	5.5 k (1230 N)	20 ksi (138 MPa)	5.5 k (1230 N)
60 ksi (414 MPa)	20.5 k (4600 N)	24 ksi (165 MPa)	7.0 k (1560 N)	24 ksi (165 MPa)	7.0 k (1560 N)

Installation and Application Considerations

Tools: 5-2000 rpm screw gun equipped with depth sensing nose piece. Fastener length should provide for a minimum of 3/16" penetration of fully developed thread into metal substrate.

Use of impact guns or hammer drills is not recommended.

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Ready to buy?

We're here to assist you in your purchase decision and make it easy. Our SFS outside sales force and our inside customer service team are available to answer questions and make your journey a smooth one.

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Architectural / Commercial Construction Fasteners

Facade Panel Attachment

	Product	Body	Head style/drive	Substrate
	SX3-D12	304SS or 316SS Bi-Metal	Dome head, T25W drive	Steel or aluminum
	SX3-D16	304SS Bi-Metal	Dome head, T25W drive	Steel or aluminum
	irius® SX3-L12	304SS Bi-Metal	irius® head, E420 irius® drive	Steel or aluminum
	TDA-S-D16	304SS with Type A Point	Dome head, T25W drive	Steel or aluminum
	10-12 Bi-Met 300® SD2	304SS Bi-Metal	Pan head, T20W drive	Steel or aluminum
	#12-16 ACM Screw	304SS	Flat head, T25W drive	Aluminum
	AP16 Rivet	Aluminum body, 304SS mandrel	Dome head	Aluminum furrings
	SSO-D15 Rivet	316SS body and mandrel	Dome head	Aluminum or steel furrings
	BULB-TITE® Rivet	Aluminum body and mandrel	Dome head	Steel or aluminum
	TW-S-D12 Self-tapper TW-A4-D12	304SS 316SS	Dome head, T20W drive	Wood
	TU-S / TUF-S / TUC-S	316SS	-	Hidden attachment to the back of HPL, fiber cement or fiber concrete panels


Architectural / Commercial Construction Fasteners

Curtain Wall Solutions







	Product	Body	Head style/drill point	Substrate
	1/4-14 SD2 Bi-Met 300®	304SS Bi-Metal	3/8" HWH, SD2 point	Steel or aluminum
	1/4-20 SD4 Bi-Met 300®	304SS Bi-Metal	3/8" HWH, SD4 point	Steel or aluminum
	1/4-20 SD5 Bi-Met 300®	304SS Bi-Metal	3/8" HWH, SD5 point	Steel or aluminum
	SX3	304SS Bi-Metal	5/16" HWH, SD2 point	Steel or aluminum
	SX5	304SS Bi-Metal	5/16" HWH, SD3 point	Steel or aluminum
	SX14	304SS Bi-Metal	5/16" HWH, SD5 point	Steel or aluminum
	Flex5 10-16 SD3	Alloy steel, selectively hardened, grade 5 performance	5/16" HWH, SD3 point	Steel or aluminum
	Flex5 12-14 SD3	Alloy steel, selectively hardened, grade 5 performance	5/16" HWH, SD3 point	Steel or aluminum
	Flex5 1/4-14 SD3	Alloy steel, selectively hardened, grade 5 performance	3/8" HWH, SD3 point	Steel or aluminum
	Flex5 1/4-20 SD4	Alloy steel, selectively hardened, grade 5 performance	3/8" HWH, SD4 point	Steel or aluminum

Architectural / Commercial Construction Fasteners

Insulated Metal Panel Attachment

	Product	Body	Head style/drill point	Substrate
	9/32" BULB-TITE® Rivet	Aluminum body and mandrel	Dome head or large flange head	Steel or aluminum
	3/16" BULB-TITE® Rivet	Aluminum body and mandrel	Dome head	Steel or aluminum
	SXC5 Self-drill	304SS Bi-Metal	5/16" HWH	Steel or wood
	SXC16 Self-drill	304SS Bi-Metal	5/16" HWH	Steel

Sub Frame Installation

	Product	Body	Head style/drill point	Substrate
	1/4-14 SD2 Bi-Met 300®	304SS Bi-Metal	3/8" HWH, SD2 point	Steel or aluminum
	1/4-20 SD4 Bi-Met 300®	304SS Bi-Metal	3/8" HWH, SD4 point	Steel or aluminum
	1/4-20 SD5 Bi-Met 300®	304SS Bi-Metal	3/8" HWH, SD5 point	Steel or aluminum
	SDA5	316SS	5/16" HWH with SR2 internal drive, SD3 point	Aluminum
	SX3	304SS Bi-Metal	5/16" HWH, SD2 point	Steel or aluminum
	SX5	304SS Bi-Metal	5/16" HWH, SD3 point	Steel or aluminum
	SX14	304SS Bi-Metal	5/16" HWH, SD5 point	Steel or aluminum

NVELOPE Cladding Support Systems

Systems

NV1 – Vertical Face Fastened System

Adjustable main support system for vertical rainscreen cladding applications. Mechanical face fastened panels.



NV3 – Hidden Mechanical Fastened System

Adjustable system for hidden fastened applications. Cladding panels mechanically attached.



NH2 – Vertical to Horizontal Adaptor

The NH2 adaptor allows to convert an NV1 vertical system to a horizontal system.



Brackets

Single Bracket

For steel, wood, concrete or filled CMU substrates.
2 x 6.5 mm slot, 1 x 11 mm slot
sizes: 40 mm–300 mm



Double Bracket

For steel or wood substrate.
3 x 6.5 mm slot
sizes: 40 mm–300 mm









Double Bracket

For concrete / filled CMU substrate.
3 x 11 mm slot
sizes: 40 mm–300 mm



NVELOPE Cladding Support Systems

NVELOPE Fasteners

	Application	Fastener description	Diameter	Length
	Bracket to steel substrate	304SS bi-metal self-drill	#14	2"
	Bracket to wood substrate	304SS bi-metal self-drill	#14	2-1/6"
	Bracket to concrete substrate	304SS bi-metal Type B	3/8"	3" or 4"
	Rail to rail, bracket to rail and bracket to NH2	316SS self-drill	#12	7/8"
	NV3 hanger to rail panel locking	304SS bi-metal self-drill	#12	1-5/8"
	NV3 hanger to rail panel adjustment	304SS machine screw	M6	3/4"



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