Off-site and Modular Construction

Value engineering specialist

for mission critical products in off-site construction applications

SFS is a specialty manufacturing company with a Swiss heritage and over 20 market organizations and 10,000 employees across Europe, North America and the Near, Middle and Far East; directly supporting customers in the areas of:

- Precision formed parts and special fasteners for architectural, aerospace, automotive, electronics and capital equipment markets
- Mechanical fastening, rivet technology and hinges for the building construction sector

Creating value for and inventing success in close collaboration with our customers is our primary mission. Our vast application and technology expertise helps us to accomplish that mission.

We call it Inventing success together

Whether attaching to aluminum, concrete, steel or wood; SFS has a vast array of fastening solutions that help ensure you get the job done faster at maximum value, all the while maintaining a sustainable environment and building structure.

Products and applications

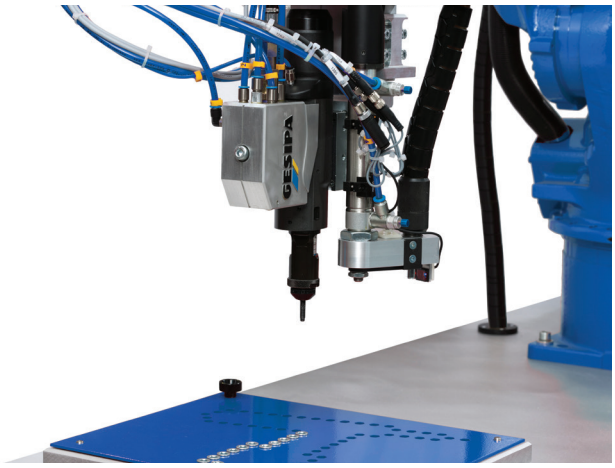
Products

- Structural wood fasteners
- Thermally broken wall framing systems for continuous exterior insulation
- Exposed and concealed cladding fasteners
- Blind rivets
- Hinges
- Self-drilling fasteners
- Sealants and adhesives
- Concrete fasteners
- Fenestration and window installation fasteners

Applications

- Metal, wood and concrete substrates
- Drain back ventilated wall systems
- Exposed and concealed fastened wall cladding
- Steep slope metal roofing
- Low slope single ply roofing
- Window and door assembly and installation
- MEP installations
- Basically, anything you dream to fasten together within the building envelope and interior

Services and automation



Services

- eLogistics
- Custom formed parts and development
- In-house structural and environmental testing
- Painting and custom color matching
- Expedited service options
- After sales service and technical support
- Private labeling and custom packaging
- National distribution locations

Automation

SFS is a world leader in automation and setting tool technology. Our experience in the automotive industry makes SFS the ideal solution provider for automated fastener installations in factory settings which:

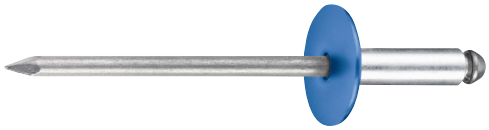
- Increase productivity
- Ensure accuracy
- Can be customized to customer requirements
- Optimize the entire value added chain

Fasteners for cladding attachment

SX3-D12 stainless bi-metal self-drill
Ideal for cladding panels (HPL, fiber cement, others) to aluminum or steel
Diameter: 5.3 mm (0.209") stainless

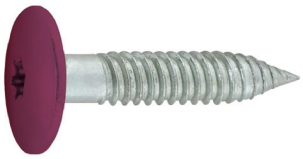
irius® SX3-L 12 stainless bi-metal self-drill
Ideal for cladding panels (HPL, fiber cement, others) to aluminum or steel
Diameter: 5.3 mm (0.209") stainless

AP16 aluminum rivet
SSO-D15 stainless 316 rivet
Ideal for cladding panels (HPL, fiber cement, others) to aluminum, steel, or stainless steel
Diameter: 5 mm (0.190") aluminum and stainless



ACM screw
Self-drilling and self-countersinking
Ideal when flush installation into ACM facade panel is desired
Diameter: 5.4 mm (0.212") stainless

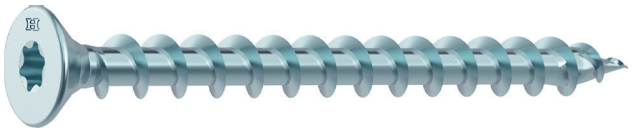
TW-S D12 stainless self-tapping
TDA-S D16 stainless self-tapping
Ideal for cladding panels (HPL, fiber cement, others) to wood, aluminum and light gauge steel
Diameter: 4.8 mm to 5.8 mm (0.191" to 0.228") stainless



TU/TUF/TUC hidden rivet fastener
Attaches brackets, straps or clips to the back (hidden) of HPL, fiber cement, or fiber concrete panels
Diameter: 6 mm (0.236") stainless

Structural wood fasteners

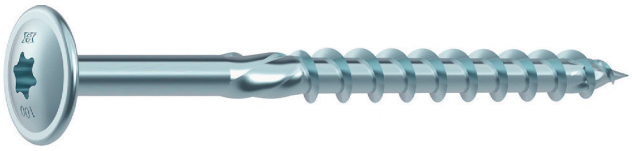
ConnexTite™ countersunk head, full thread
Ideal for applications where high withdraw values are required and when a flush finish is desired
Diameter: 3.5 mm to 6 mm (0.138" to 0.236") carbon
3.5 mm to 5 mm (0.138" to 0.197") stainless



ConnexTite™ countersunk head, partial thread
Ideal for clamping force in applications where lateral loading is a determining factor and when a flush finish is desired
Diameter: 3.5 mm to 10 mm (0.138" to 0.394") carbon
3.5 mm to 8 mm (0.138" to 0.315") stainless

ConnexTite™ flange head, full thread
Ideal for applications where high withdraw values as well as high fastener head pull-through values are required
Diameter: 6 mm to 10 mm (0.236" to 0.394") carbon
6 mm to 8 mm (0.236" to 0.315") stainless

ConnexTite™ flange head, partial thread
Ideal for clamping force in applications where lateral loading as well as fastener head pull-through are determining factors
Diameter: 6 mm to 10 mm (0.236" to 0.394") carbon
6 mm to 8 mm (0.236" to 0.315") stainless



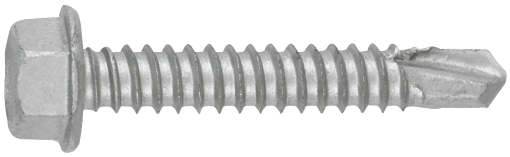
WT double thread
WT lag system for joining members in pre-fabrication or on-site
Diameter: 4.5 mm to 8.2 mm (0.177" to 0.323") carbon

WS self-drilling dowel
Cylindric countersunk head, T-drive, secondary thread
WS system for multiple shear plane steel-timber connections
Diameter: 7 mm (0.276") carbon

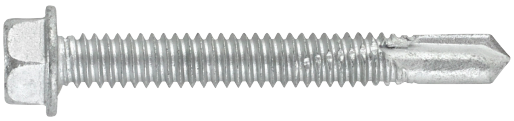
Metal to metal fasteners

Impax carbon steel self-drill
Ideal for making basic metal-to-metal connections with or without sealing washers
Diameter: 4.2 mm to 6.3 mm
#8 to 1/4" (0.163" to 0.250")

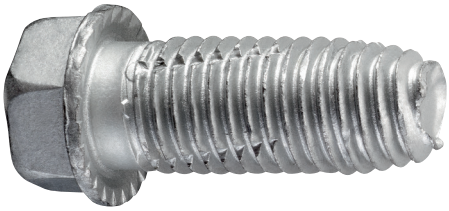
Flex5 selectively hardened with grade 5 performances
Ideal for critical curtain wall and rainscreen applications where dissimilar metals bring fastening concerns
Diameter: 4.75 mm to 6.3 mm
#10 to 1/4" (0.186" to 0.250")



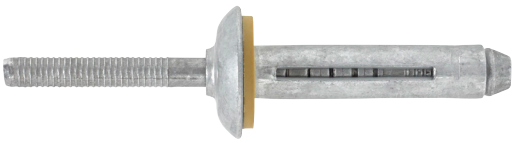
Bi-met 300® self-drill 304 stainless with carbon steel point
Ideal for applications with high potential for corrosion, or when you just need the utmost security and quality
Diameter: 1/4" (0.250") [6.3 mm]



TDBL self-tapping for structural metal to metal connections
Ideal for blind fastening of steel support structures where rear side access to the support structure is limited, thus making a nut and bolt connection cumbersome. Replace nut and bolt connections with a single fastener that resists over-driving and underwinding.
Diameter: 8 mm to 13 mm (0.315" to 0.512")



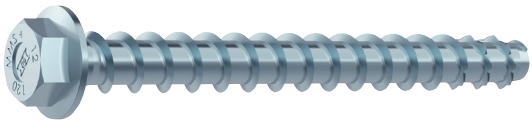
BULB-TITE® rivet for structural connections
Ideal for applications in need of tamper proof, vibration resistant connection while also being weather resistant
Diameter: 7.1 mm to 4.75 mm
0.281" to 0.187" (9/32" to 3/16")



Blind rivet nut
Female thread anchors for ultimate clamp load in thin sections
Various head and body geometries available
Internal thread diameter: M4 to M10

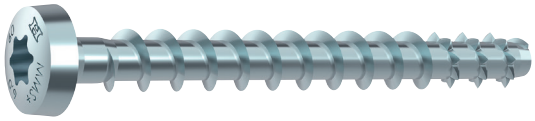
Fasteners for attachment to concrete

MMS-plus SS with combined washer
Carbon steel self-tapping for various applications into concrete
Diameter: 6 mm to 20 mm (0.236" to 0.787")

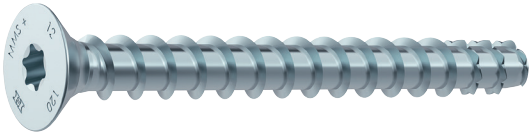


MMS-S hexagon head stainless bi-metal
Stainless self-tapping for various applications into concrete
Diameter: 7.5 mm to 12 mm (0.295" to 0.472")

MMS-plus pan head
Carbon steel reduced pan head for anchoring into concrete
Diameter: 5 mm to 10 mm (0.197" to 0.394")

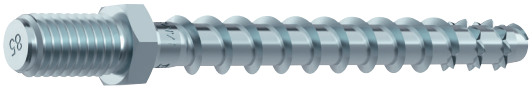


MMS-plus F, T-drive
Carbon steel countersunk head for anchoring into concrete
Diameter: 5 mm to 12 mm (0.197" to 0.472")



MMS-plus I
Connection thread anchor with metric internal thread
Diameter: 6 mm to 10 mm (0.236" to 0.394")
Internal thread: M6 to M10

MMS-plus ST
Connection thread anchor with external metric stud
Diameter: 6 mm to 10 mm (0.236" to 0.394")
External stud: M6 to M10



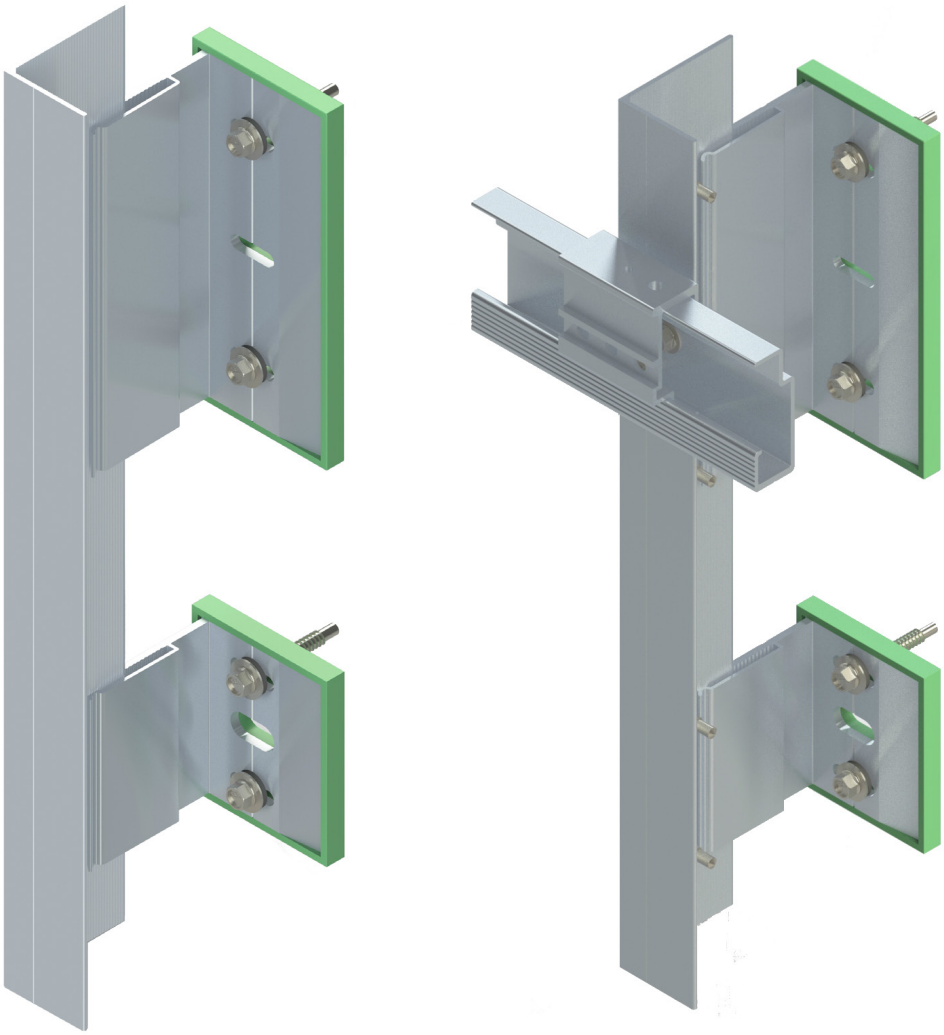
Nvelope Thermally Broken Rainscreen Support Systems

There are many characteristics that any cladding support system must have to meet today's building requirements. Demanding energy standards and building codes that need to be met create design problems to overcome.

With Nvelope thermally broken cladding support systems, you can:

Tick All the Boxes

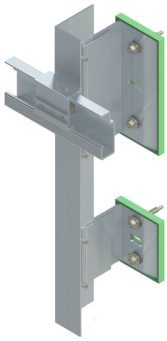
- ✓ Structurally sound
- ✓ Thermally predictable
- ✓ Safe in a fire
- ✓ Suitable for most cladding types
- ✓ Easy to install/adjust
- ✓ Cost effective
- ✓ Wide range of cavity depths



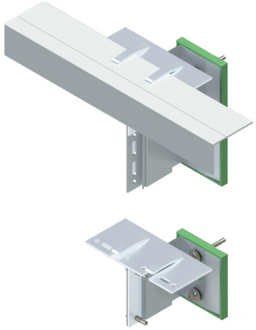
Nvelope Brackets

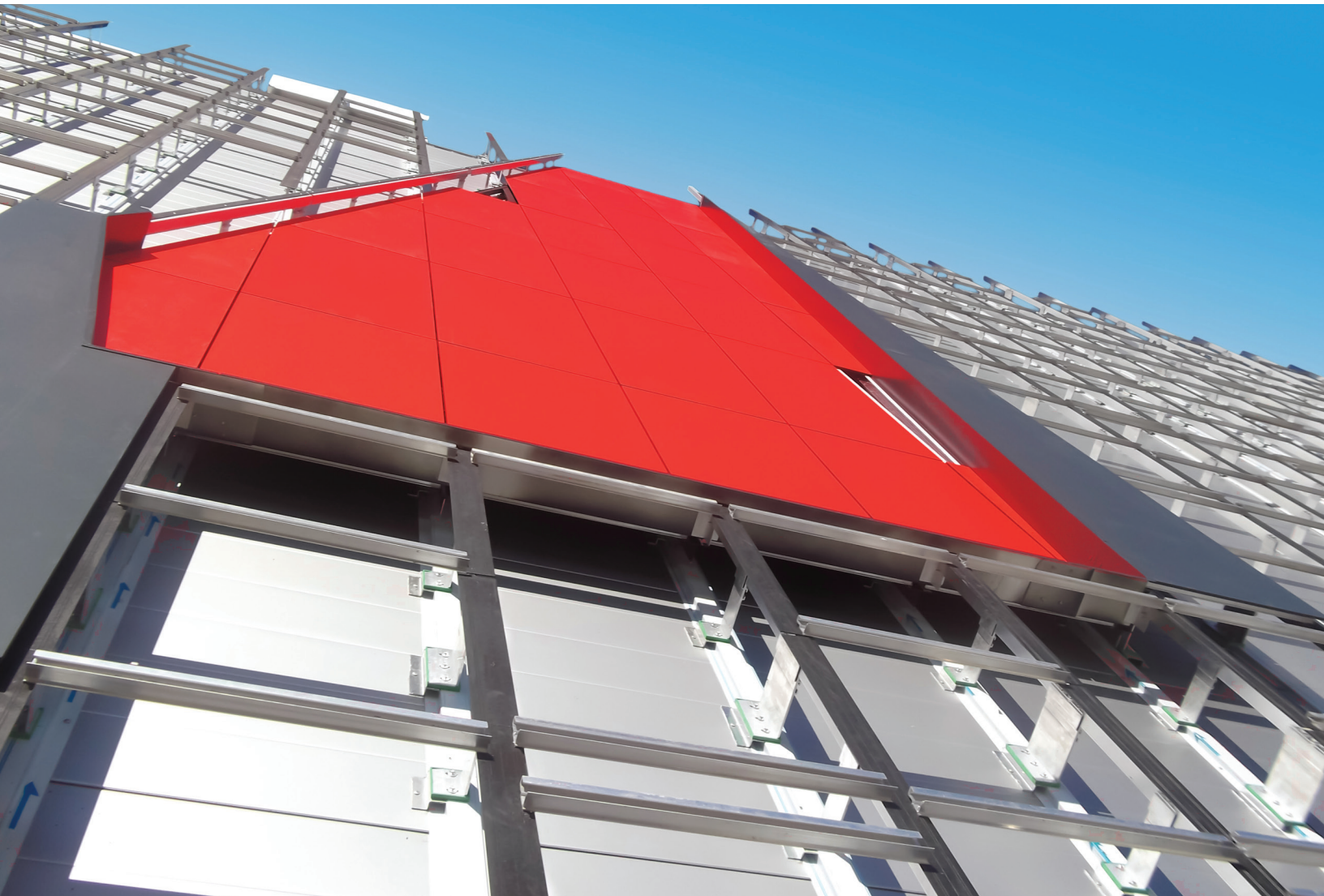
NV1 – Vertical Face Fastened System
Adjustable main support system for vertical rainscreen cladding applications. Mechanical face fastened panels.

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.





The building envelope specialist

Whether on the roof or on the wall, for floors or doors or windows; inside and out – SFS is the specialist for fastening solutions for the entire building.

With the invention of the first stainless drilling screw worldwide, SFS laid the foundation for modern fastening technology more than 30 years ago. Since this pioneering achievement, the development and production of fastening systems for the construction industry is one of our core competencies.

We know that it's all about speed, cost, quality, reliability and sustainability when it comes to a construction, building or design project. Our passion lies in supporting customers with a solution focus that makes us the recognized provider of outcomes with high customer benefit. Our control of the entire value-added chain and related processes, coupled with our willingness to adapt, makes SFS the ideal partner when it comes to advanced construction practices such as off-site and modular construction.

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