

Façade construction for thin cladding materials like fiber cement & HPL.



Basic information for fiber cement & HPL.

When it comes to façade cladding it is about the outer appearance of the cladding which gives the building a stand-alone look. Furthermore, it is important to guarantee the aesthetics of the building for years to come. Both are equal prerequisites and optimally fulfilled by HPL and fiber cement.

Both are artificial materials, which are industrially manufactured based on natural products. That is why there is a very wide range of various colours and surface textures.

About HPL:

HPL claddings are high-pressure laminates consisting of multiple layers. These layers are combined in laminate presses under high pressure and at high temperature in order to ensure long term durability and performance.

By using heat-resistant resins the fire protection can be increased. It is also easy to maintain and clean the surface of HPL which is a big advantage for façades as they are exposed to weather and can get dirty quickly.

About fiber cement:

Fiber cement is a composite material made of cement reinforced with cellulose fibers. The natural durability of the material makes it highly sustainable. Additionally, due to the high density and compression of fibers, the material has excellent characteristics including superb freeze-thaw resistance as well as resistance to fungi, mold and bacteria. Façade panel thicknesses range from 8 mm to 12 mm. Common fixing methods are colour-coated rivets for exposed fixing and undercut anchors for concealed fixing.

The relatively lightweight panels enable many possibilities in design, e.g. floor-to-floor spanning subframe or wide cavity zone to cover thick insulations which are required on energy efficient buildings.

Backed with 35 years' experience fischer supports in material testing to evaluate design resistances.



Various fiber cement and HPL manufactures provide a great variance in the properties and colours of the boards to the worldwide market. Despite all differences they have one thing in common - they can be installed with fischer products.





Façade construction for thin cladding materials



StabiloCUBE · Heroldsberg · Germany





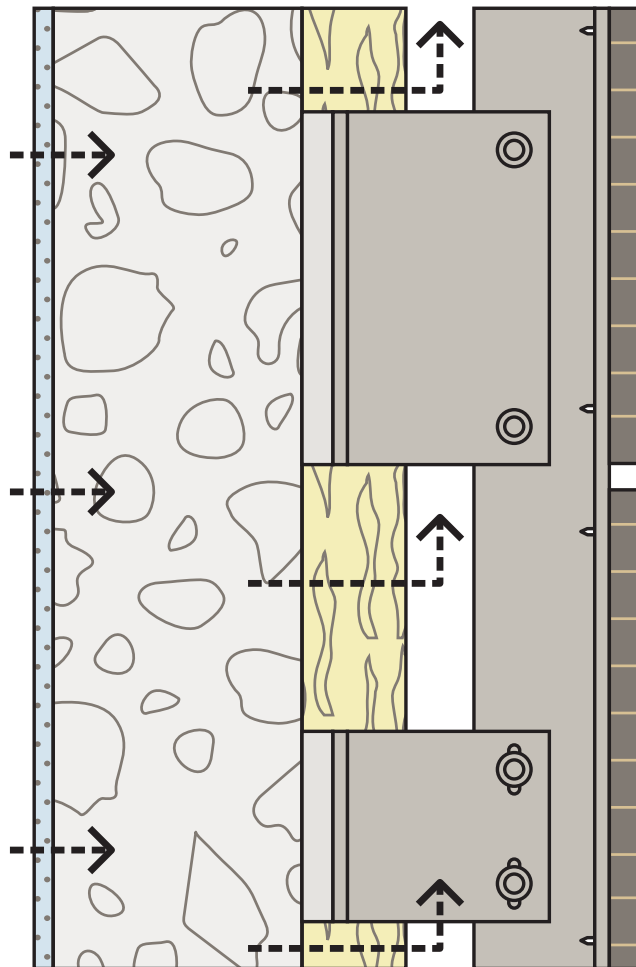
Functional principle rainscreen façades.

A rainscreen façade is a ventilated double-layer cladding system which structurally separates the weather protection and insulation functions. Based on many advantages compared to sealed façade systems rainscreen systems have become very popular nowadays. Besides the aesthetic advantages there are in addition functional and safety benefits, which include the rear ventilation cavity and non-combustible insulation materials. These systems are less susceptible to damage than other façade systems and provide a wide freedom of design. In addition, fire, noise and lightning protection requirements can be implemented.

fischer offers innovative, high-quality full façade systems for rainscreen façades. Besides functional and economical advantages, the fischer façade systems provide especially an outstanding architectural creative scope.

fischer goes beyond the state of the art by offering the following benefits:

- Subframe systems for all different cladding materials
- Flexible system for concealed and exposed applications
- Fast and uncomplicated installation reduces costs for the whole façade
- Complies with low and zero energy building standards
- Project-specific training, consultation and product solutions
- Global support by local representatives
- Experienced in façade systems for 35 years
- Complete façade system supplied out of one hand
- ETA and CE approved



Functional principle rainscreen façade with system components





The appearance they deserve with the fischer undercut technology.

Thin cladding materials

The fischer Zykon Panel Anchors FZP II allow a concealed fixing of fiber cement and HPL boards for rainscreen façades. The fitting drill hole is created by a conical undercut in a cylindrical hole. The harmonized geometry of the installed undercut anchor and the drill hole create a stress-free fixing. Only the impact of external forces causes internal reaction forces in the connection of the undercut anchor and fiber cement or HPL.

Similar to the undercut anchor, just as much know-how goes into the other components of the fischer façade system. The drilling techniques, quality assurance of drill holes and installation methods integrate the system perfectly.

With this complete system for undercut anchors,

fischer offers architects and planners an innovative, high-quality solution for rainscreen façades. In addition to processing and economic advantages, the fischer façade system with undercut anchors provides an outstanding freedom of architectural design.



Benefits



On-site support



Technology leadership beyond the state-of-the-art



Cost efficiency of the overall system with fischer quality



Fast supply and installation of the system

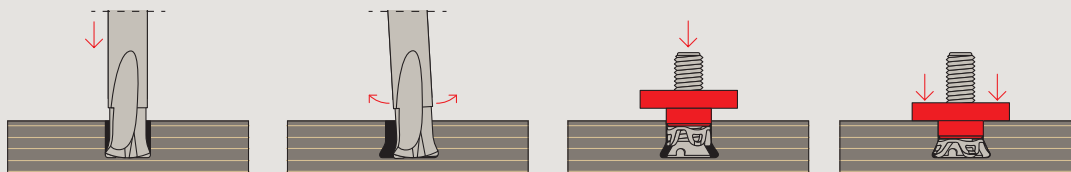


Global availability and supply of a complete system from a single source



Approved and third-party certified systems and in-house test laboratory

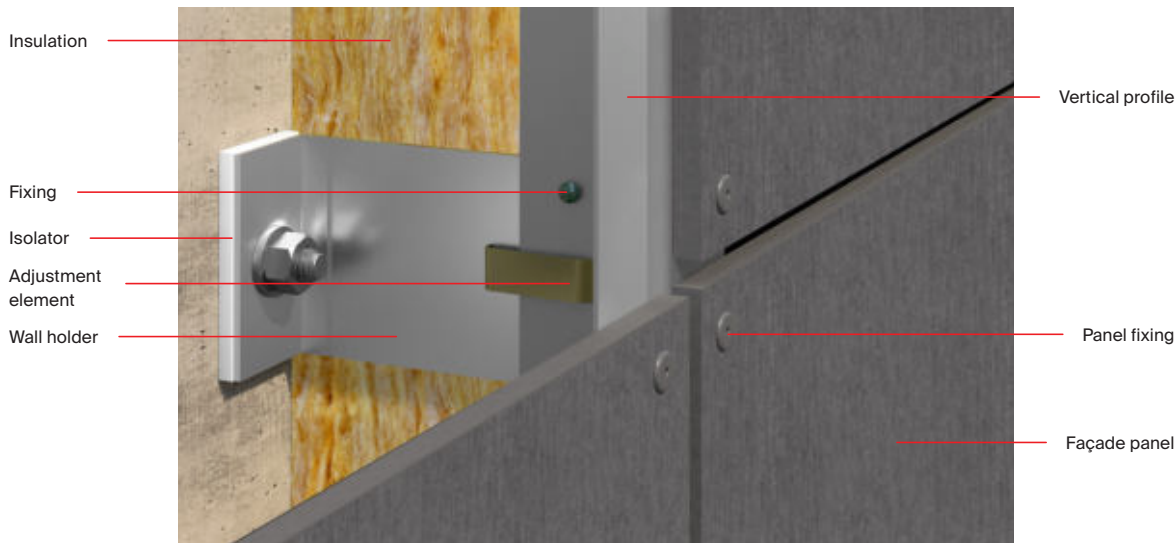
Installation





Subframe system for exposed fixing of fiber cement & HPL cladding.

Exposed system



Technical data

Exposed system			
Product type	Product description	Item No.	Annotation
Isolator	Thermostop 40x150x6/11	546156	For fix points
Isolator	Thermostop 40x80x6/11	540741	For sliding points
Wall holder	FLH 160x150x3/11/F-SP AL	548107	Fix point holder
Wall holder	FLH 160x80x3/11/SP AL	548105	Sliding point holder
Wall fixing	FAZ II 10/10 A4	501403	Bolt anchor for concrete
Wall fixing	SXRL 10 x 80 FUS	522730	Frame fixing for masonry
Adjustment element	Helping Hand clip	547170	–
Vertical profile	T-Profile 100/52/2	548170	Aluminum profile, 6m
Fixing	Special Rivet SNA 5 x 12 K14	545591	–

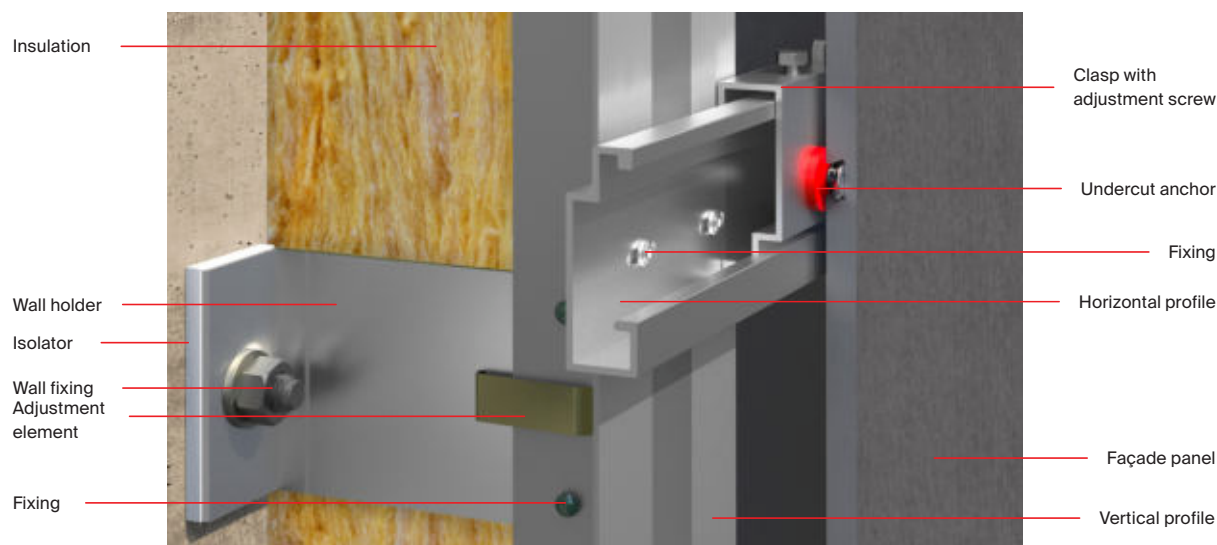
Typical items for a subframe systems as depicted. For more items, specific information and quotations we kindly ask you to refer to: facades@fischer.de or www.fischer-international.com/fischer-facade-systems





Subframe system for concealed fixing of fiber cement & HPL cladding.

Concealed system



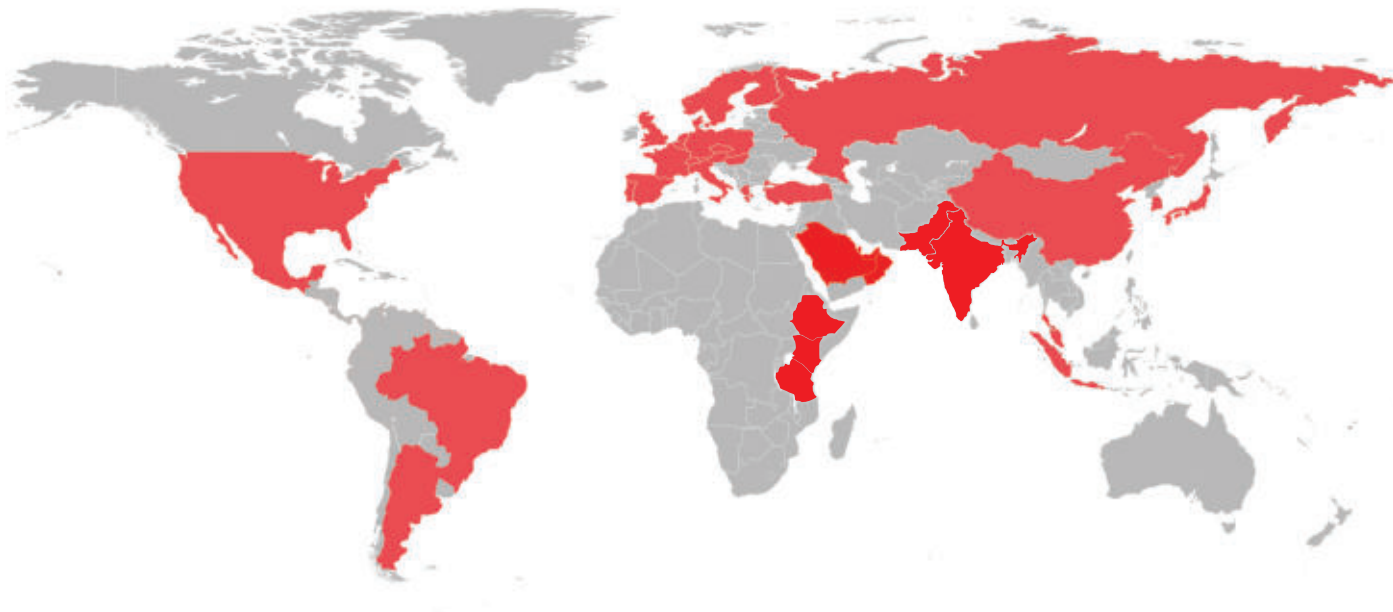
Technical data

Concealed system			
Product type	Product description	Item No.	Annotation
Isolator	Thermostop 40x150x6/11	546156	For fix points
Isolator	Thermostop 40x80x6/11	540741	For sliding points
Wall holder	FLH 140x150x3/11/F-SP AL	548089	Fix point holder
Wall holder	FLH 140x80x3/11/SP AL	548087	Sliding point holder
Wall fixing	FAZ II 10/10 A4	501403	Bolt anchor for concrete
Wall fixing	SXRL 10 x 80 FUS	522730	Frame fixing for masonry
Adjustment element	Helping Hand clip	547170	-
Vertical profile	T-Profile 100/52/2	548275	Aluminum profile, 6m
Fixing	Special Rivet SNA 5 x 12 K14	545591	-
Horizontal profile	H-Profil ATK103S-20/ t=2mm	545584	Aluminum profile, 6m
Clasp	ATK103 S20, t2, B60, D6,5 adjustable	547532	Including fix point locking
Clasp	ATK103 S20, t2, B36, D6,5 rigid	545579	For sliding points
Undercut anchor	FZP II 11X6 M6/T/10 PA	520365	For panels >8mm thickness

Typical items for a subframe systems as depicted. For more items, specific information and quotations we kindly ask you to refer to: facades@fischer.de or www.fischer-international.com/fischer-facade-systems



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