

Catalogue Façade systems



Foreword

Dear partners,

Building envelopes must meet ever-growing requirements. Ventilated rainscreen façades combine a sophisticated appearance with modern technology that meets contemporary thermal insulation requirements, among other advantages. We offer an innovative and high-quality all-in-one solution for fixing the ventilated rainscreen façades of the future.

Our façade systems provide advantages in terms of technology, energy and cost-effectiveness, with the added benefits of safety and flexible design options. We offer the ideal solutions for exposed or concealed fixing on all ventilated rainscreen façades cladding materials matching to your requirements.

Our all-in-one system of compatible products with tested and approved individual components covers a wide range of subframe solutions. The comprehensive range of aluminium and stainless steel subframe elements enables extensive prefabrication, simple application and fast installation. The portfolio includes systems for any type of façade cladding material, structural and energy requirements as well as thermally isolated solutions to transfer loads from ventilated rainscreen façades into the anchor substrate. Our FZP II undercut anchors are suitable for concealed, aesthetic and, compared to conventional edge fixings, structurally optimised fixings of all kinds of façade panels.

We also provide solutions to implement durable and secure solar façades. Our new PV clip system guarantees quick, secure and cost-effective fixings for framed PV modules on common substrates or subframes. Our horizontal ATK103 PV suspension clasp system provides an aesthetic alternative for solar façades.

In addition to subframe solutions and panel fastenings, our perfectly coordinated all-in-one system includes the corresponding plugs and anchors. Our all-in-one

solutions for installing ventilated rainscreen façades from a single source speed up the construction processes while lowering project costs.

With our wide range of services we provide support throughout every phase of construction – from consultancy services, structural pre-calculations and designs, approval procedures, on-site instructions and trainings for the systems and installation the project's successful completion.

We hope you enjoy discovering and using our façade systems.

Alexander Bässler



*Speaker of the Board of Directors
at the fischer Group of Companies*



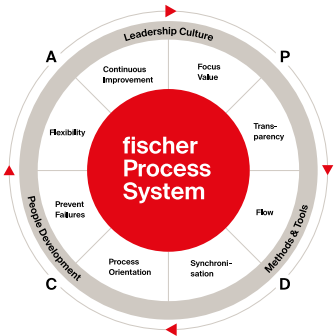
“Whoever chooses fischer receives more than a range of safe products. The aim is to always develop the best solutions for our customers across the globe.”

Besides the innovative products, this predominantly concerns support that is focused on the customer, and services designed to improve customer benefit.

A brand and its promise to perform.

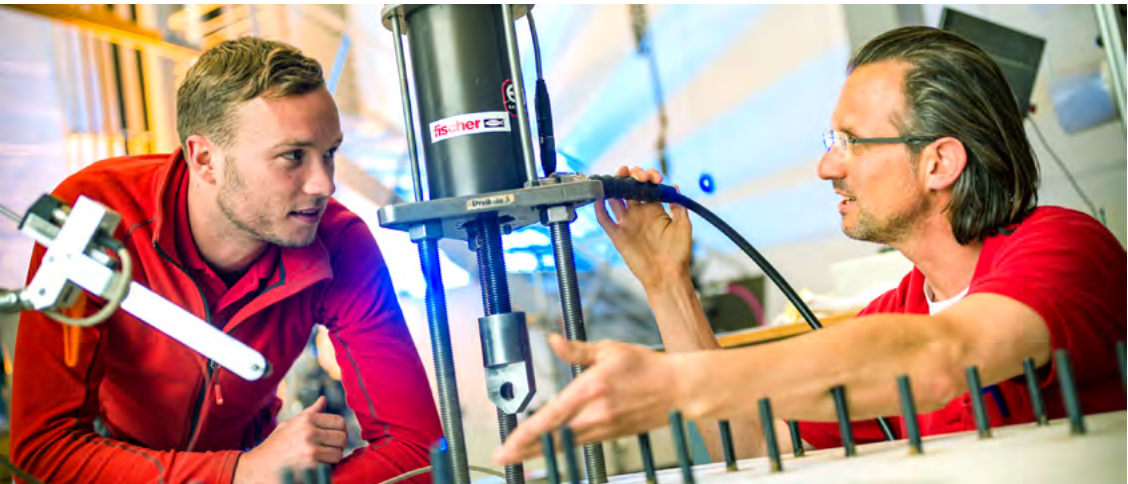
Continuous improvement

With the fischer ProzessSystem (fPS) we ensure that we are adapting and optimising our processes in line with customer requirements in a flexible manner and on a continuous basis.



Safety that connects. Decisive quality

We don't make any compromises when it comes to the safety of our products. A whole host of our products are distinguished by comprehensive, up-to-date and international approvals. The fischer product range is well-positioned in all sectors of fixing technology – steel, nylon and chemcial fixings. Our award-winning quality continues to impress both professional clients and private customers with equal measure.



Always on the pulse of time

At fischer, innovation is more than just the sum of our patent portfolio. We are open to new challenges and are prepared for change – always with the aim of offering our customers the greatest possible benefits. Over the years, our own development and production sites have been developing numerous fixing solutions for the most wide-ranging applications. Be it new production procedures or materials, such as renewable raw materials, we are carrying out the research for your safety and will continue to do so in the future. This gives us such great flexibility that we can even develop tailor-made customer solutions. This power to innovate has seen fischer become a market leader in anchor technology and the fixing industry.

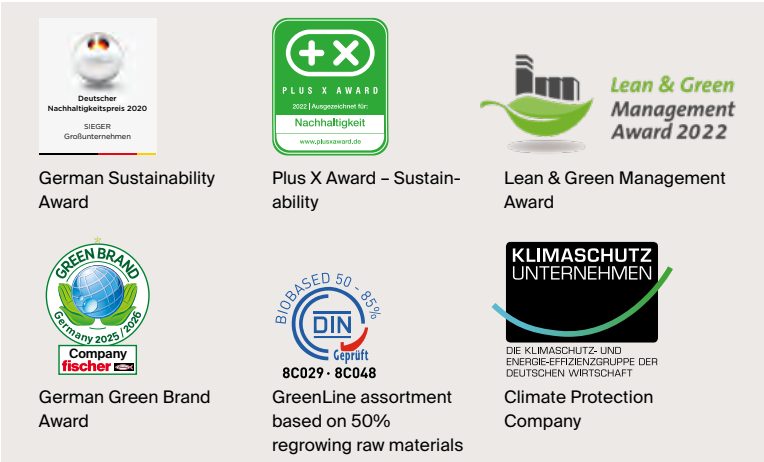
Our service to you

We are a reliable partner, one that will stand at your side and address your individual requirements with advice and action:

- Our products range from chemical systems to steel anchors through to plastic anchors.
- Competence and innovation through own research, development and production.
- Global presence and active sales service in over 100 countries.
- Qualified technical consulting for economical and compliant fastening solutions.
- Training sessions, some with accreditation, at your premises, at the fischer academy or on the construction site as requested.
- Design and construction software for demanding applications.

We take responsibility

Our active environment management policy means that we are helping to maintain an intact environment for our generation and for those that follow. The environment management policy at the Tumlingen headquarters has been certified in line with DIN EN ISO 14001. It fills us with particular pride that in 2020 we received the most important and largest award in Europe in the field of sustainability: the German Sustainability Award – in the category large companies. This was in recognition of our holistic approach and the strategic anchoring of our sustainability management. With our greenline products we have launched the first range of fixings on the market that is based on renewable raw materials to more than 50%.

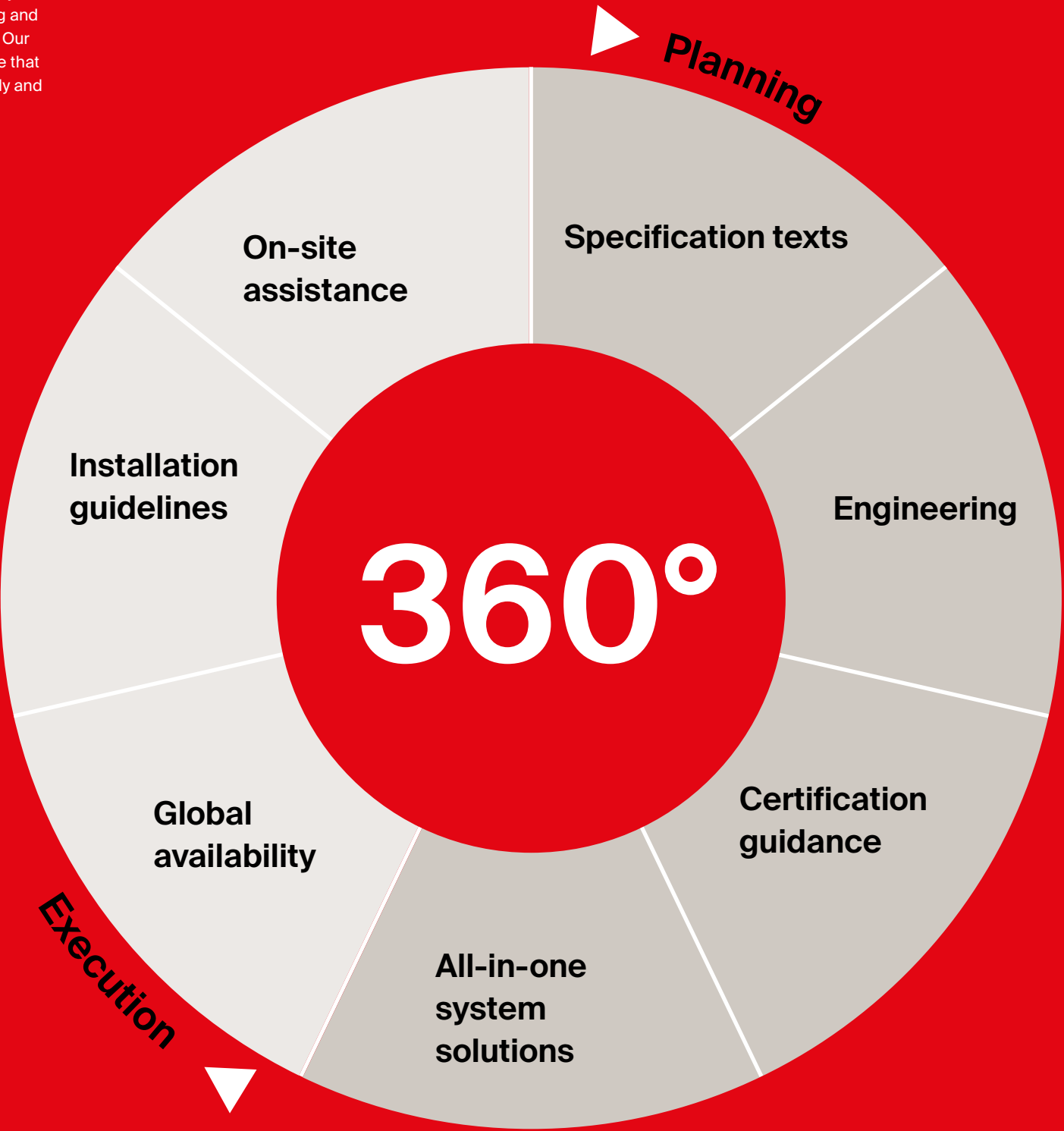


Our 360° level of project competence.

As an experienced international project specialist, fischer is your reliable partner throughout all project stages. From planning and tendering to assembly, we provide comprehensive support. Our professional consultation and wide range of services ensure that we meet the specific requirements of each project efficiently and effectively.

Your fischer advantage

- **Quality and innovation:** Made & engineered in Germany
- **Engineering services:** Structural optimization and high-level technical support
- **Product range:** Comprehensive selection as a system provider
- **Global availability:** Supported by numerous fischer subsidiaries
- **Project support:** Reliable assistance throughout all construction phases



Challenges & solutions

In the project business, we address challenges with customer / project specific system solutions and client-specific adaptations. Expert contacts and integrated product system solutions are available globally.

Certifications & environmental performance

- Approved and third-party certified systems (CE marking)
- ETA and other relevant certifications
- Sustainability certificates (e.g., EPD, LEED, Cradle-to-Cradle)
- Use of recycled aluminum



99 Hudson · Jersey City · USA

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1

Introduction

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1

Functional principle of ventilated rainscreen façades.

Functional principle of ventilated rainscreen façades.

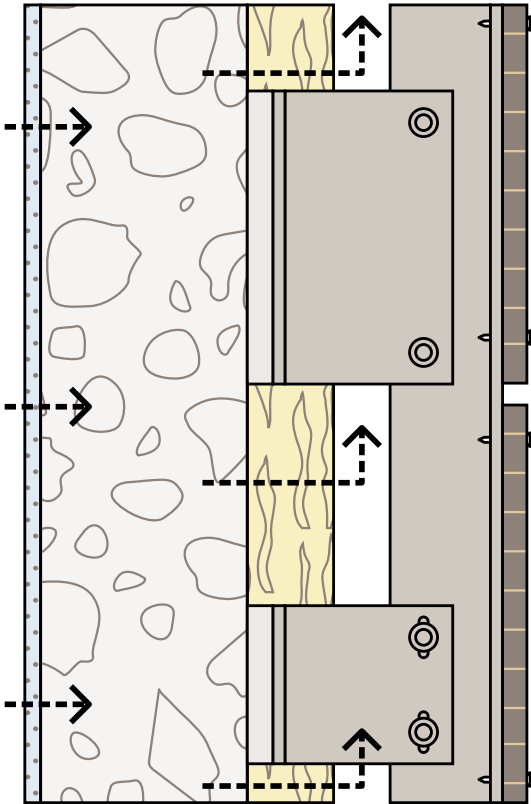
A ventilated rainscreen façade is a ventilated double-layer cladding system that structurally separates weather protection and insulation functions. The façade system consists of four main components:

- 1. The cladding material
- 2. The subframe system: the connection between the cladding material and the building substrate
- 3. The ventilation gap
- 4. The insulation material

Ventilated rainscreen façades are less susceptible to damage than other façade systems. Fire, noise, and lightning protection requirements can be implemented.

The ventilation gap allows moisture to escape effectively. It also contributes to energy efficiency and reduces heating and cooling costs. Ventilated rainscreen systems are chosen for numerous buildings where high technical and aesthetic requirements must be met, including:

- Commercial and residential
- Institutional
- Hospitality and entertainment
- Retail and office



Functional principle of ventilated rainscreen façade with system components

1

fischer façade systems. Our range of products.

- fischer offers economical and innovative solutions for all ventilated rainscreen façade applications.**
- Wall fixings for all building substrate
 - Subframe systems (wall holders, profiles, clasps), including heavy duty and stainless steel options
 - Exposed panel fixing (coated panel clamps, bolts, rivets, screws)
 - Concealed panel fixing with FZPII, undercut drilling and installation technology
 - FireStop Systems
 - Installation Systems

A 3D perspective view of a fischer rainscreen system installed on a wall. The system consists of a subframe with vertical and horizontal profiles, and cladding panels. Red numbered callouts (1-7) point to specific components: 1. Wall fixing, 2. Thermostop, 3. Wall holder, 4. Vertical profile, 5. Horizontal profile, 6. Clasps, 7. Undercut anchor.

**Full system approach.
All parts from one single source.**

General fixings
1. Wall fixing

Subframe systems
2. Thermostop
3. Wall holder
4. Vertical profile
5. Horizontal profile
6. Clasps

Panel fixings
7. Undercut anchor
Façade clamps
Suspension bolts
Rivets
Screws

Installation accessories
Undercut drilling and installation technology

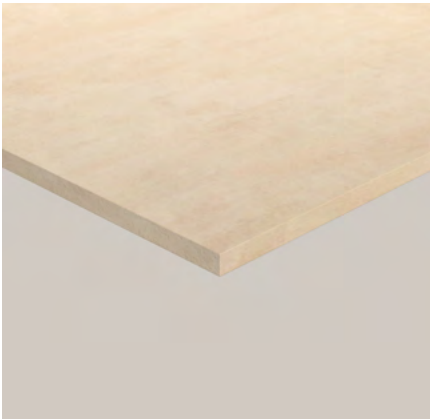
Additional
Fire Stop systems
Fire barrier

Insulation fixings
Insulation plugs and anchors

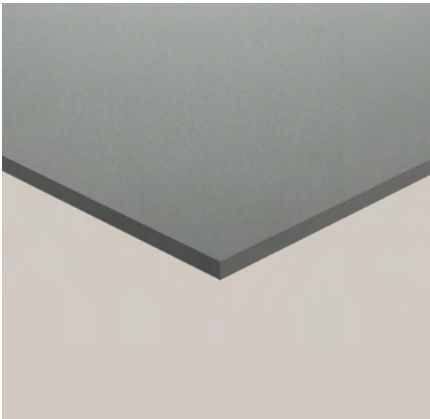
1 Freedom of design – Various façade cladding materials.



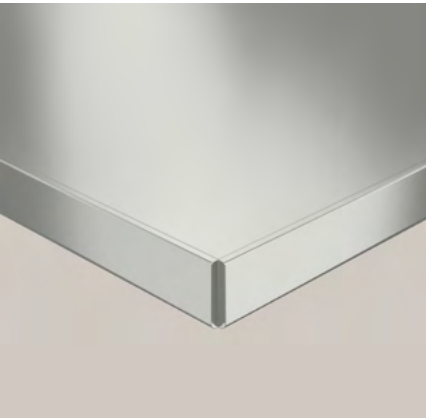
Natural Stone



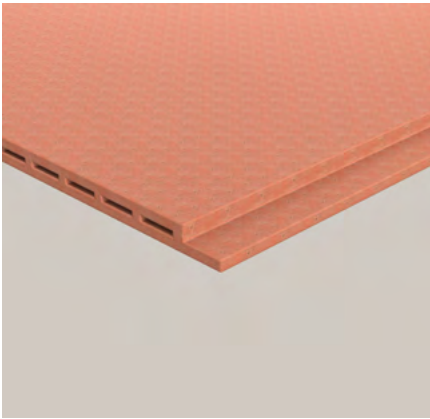
Ceramic / Ultra-compact surface



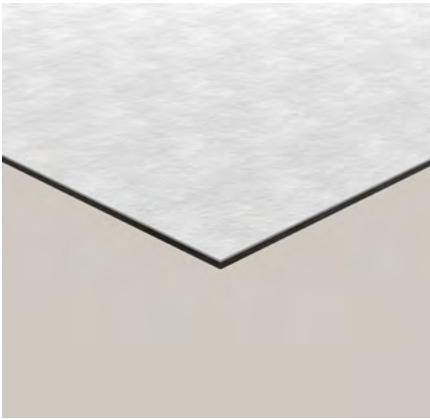
Fiber cement



Metal and composite cassette



Terracotta

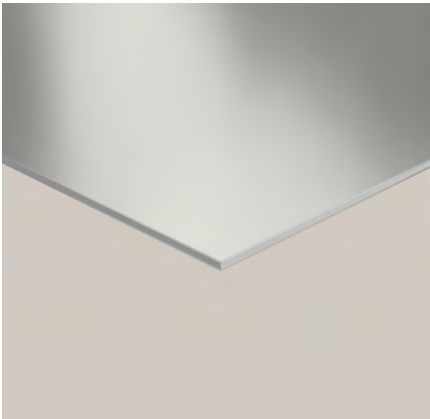


Plaster base plate

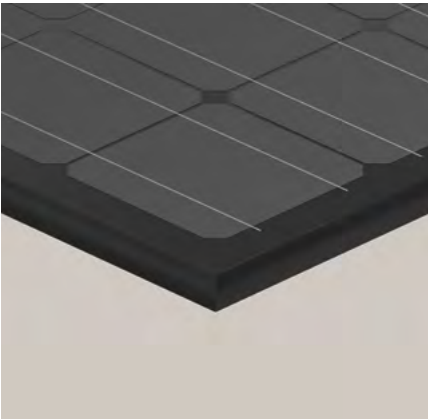
1 All-in-one solution – fischer façade systems.



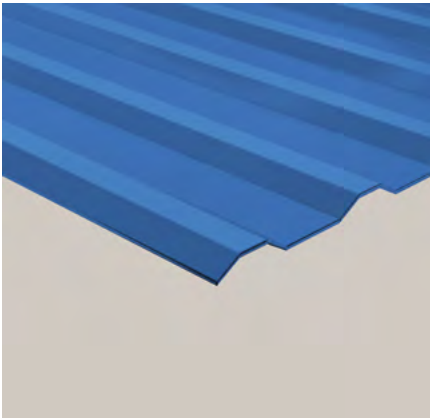
HPL



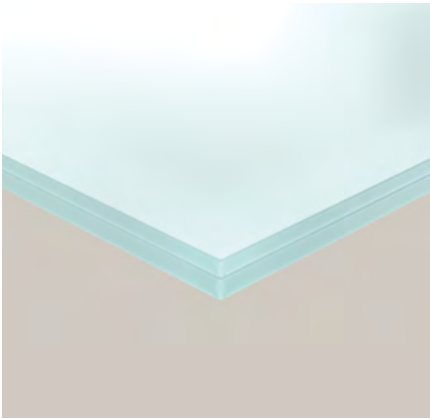
Metal and composite sheet



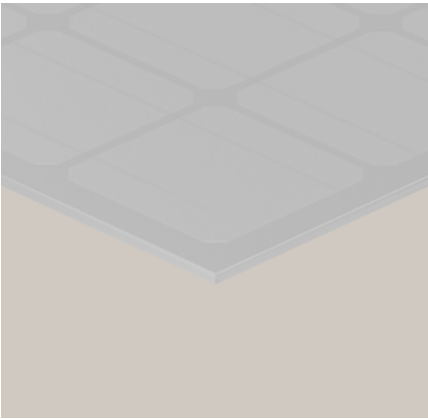
PV module with frame



Trapezoidal sheet



Glass



PV module without frame

1 Why fischer?



- Engineering support**
- structural pre-calculation
 - draft planning
 - energy efficiency (U-value) calculation



BOQ preparation for defined areas



On-site support and training sessions



Local representatives in your market



Façade system configurator



Customized product solutions



In-house test laboratory and support for system tests



Approved and tested system solutions for all applications in ventilated façades



- fischer is a member of the following associations and institutions:**
- FVHF: German association for ventilated rainscreen façades
 - IFBS: International Association for Lightweight Metal Construction
 - DGNB: German association for sustainable construction
 - CWCT: Centre for Window and Cladding Technology
 - FÖHF: Austrian association for ventilated rainscreen façades
 - Passive house institute
 - NSI: Natural Stone Institute of America



Dalvey Haus · Singapore · Singapore



LIMES international · Valkenburg · Netherlands

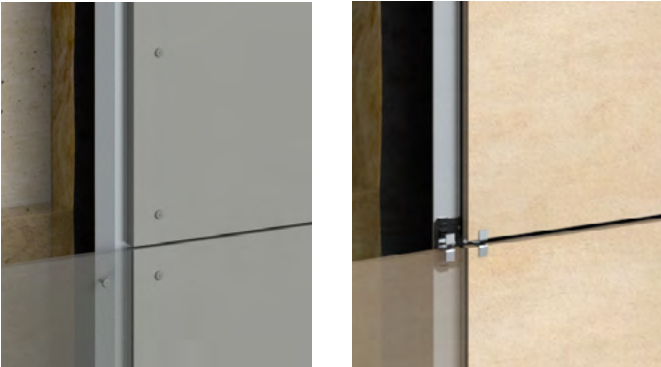
2

Façade systems

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Exposed fixings.

The most economical way of fixing cladding materials to ventilated rainscreen façades is exposed fixing. These systems typically consist of wall holders, vertical profiles, connection elements and panel fixings. The clamps and rivets can be powder coated in the color of your panel and are therefore almost invisible.



For further information:
www.fischer-international.com/en/expertise/facade-systems/exposed-fixing



Concealed fixings.

Concealed fixing systems ensure aesthetic and invisible fixing of façade materials. These systems include wall holders, vertical and horizontal profiles and undercut anchors. The large variety of our products allows us to realize every project, fix every material in a concealed way and guarantee the ideal outcome.



For further information:
www.fischer-international.com/en/expertise/facade-systems/concealed-fixing



ATK100
Rivet Solution
Wall holder: FLH AL, FLH R, FRH, ZeLa
Vertical profile: FVL, FVT, FVTulip
Fixing: Rivets or screws

Application: Lightweight cladding materials or smaller façade panel sizes.
Advantages: High load-bearing capacity, thermally optimized solutions, quick installation.



ATK100KL
Clamp solution
Wall holder: FLH AL, FLH R, FRH, ZeLa
Vertical Profile: FVL, FVT
Fixing: Façade clamp FPC ATK100KL

Application: Lightweight cladding materials or smaller façade panel sizes.
Advantages: Quick and easy installation, aesthetically pleasing appearance thanks to color-coated clamps.



ATK102
Clamp Solution
Wall holder: FLH AL, FLH R, FRH, ZeLa
Vertical profile: FVT ATK102, FVL ATK102
Fixing: Façade clamp FPC ATK102

Application: Façade panels and concealed fixing of terracotta panels.
Advantages: Flexible clamp solutions, suitable for different material thicknesses.



ATK100 + 103
Undercut solution
Wall holder: FLH AL, FLH R, FRH, ZeLa
Vertical profile: FVL, FVT
Horizontal profile: FHC ATK103
Fixing: FHC clasp + undercut anchor FZP II

Application: Lightweight cladding materials or smaller façade panel sizes.
Advantages: Invisible fixing, high load capacity.



ATK101 + System One
Undercut solution
Wall holder: FUH AL, FPH AL
Vertical profile: FVPi, FVBox
Horizontal profile: FHBox BS
Fixing: FHC BS clasp + undercut anchor FZP II

Application: Heavy cladding materials or larger façade panel sizes.
Advantages: Simple installation, flexible use.



ATK106SZ20
Cassette solution
Wall holder: FUH AL
Vertical profile: FVHat
Horizontal profile: FHS, FHZ, FHSZ
ATK106SZ20 Profiles
Fixing: Rivets, screws

Application: Metal and composite cassettes.
Advantages: Optimized for large formats, minimizes thermal bridges.

2

Various cladding materials – various façade system solutions – various partnerships.

Material	Manufacturer/Brand (e.g.)	Exposed fixing solution			Concealed fixing solution			
		ATK100 / ATK601 Rivet / screw	ATK100 + ATK100 KL Clamp	ATK102 Clamp	ATK100 + ATK103 Under-cut anchor	ATK101 + ATK103 Under-cut anchor	ATK106SZ20 or ATK107	ATK100 + ATK103 or PV-Clip
Ceramics / Ultra compact surface materials	General	–	●	●	● ¹⁾	● ¹⁾	–	–
	Agrob Buchtal	–	● ¹⁾	●	● ¹⁾	● ¹⁾	–	–
	Atlas Concorde	–	●	●	● ¹⁾	● ¹⁾	–	–
	Casalgrande Padana	–	●	●	● ¹⁾	● ¹⁾	–	–
	Ceramax	–	●	●	● ¹⁾	● ¹⁾	–	–
	Cosentino - Dekton	–	●	●	● ¹⁾	● ¹⁾	–	–
	Fiandre	–	●	●	● ¹⁾	● ¹⁾	–	–
	Florim	–	●	●	● ¹⁾	● ¹⁾	–	–
	Frontek	–	●	●	● ¹⁾	● ¹⁾	–	–
	Infinity	–	●	●	● ¹⁾	● ¹⁾	–	–
	Laminam	–	●	●	● ¹⁾	● ¹⁾	–	–
	Lapitec	–	●	●	● ¹⁾	● ¹⁾	–	–
	Marazzi	–	●	●	● ¹⁾	● ¹⁾	–	–
	Mirage	–	●	●	● ¹⁾	● ¹⁾	–	–
	Moeding	–	●	●	● ¹⁾	● ¹⁾	–	–
	Mosa	–	● ¹⁾	●	● ¹⁾	● ¹⁾	–	–
	NovaBell	–	●	●	● ¹⁾	● ¹⁾	–	–
	Porcelanosa-Butech	–	●	●	● ¹⁾	● ¹⁾	–	–
	The Size - Neolith	–	●	●	● ¹⁾	● ¹⁾	–	–
	Tichelaar Makkum	–	●	●	● ¹⁾	● ¹⁾	–	–
Composite Material / ACM	Alpolic	●	–	–	–	–	●	–
	Alucobond	●	–	–	–	–	●	–
	Fritsche - Etalbond	●	–	–	–	–	●	–
	Kingspan	●	–	–	–	–	●	–
Fibre Cement	Cembrit	●	–	–	●	●	–	–
	Etex - Equitone	●	–	–	● ¹⁾	● ¹⁾	–	–
	James Hardie	●	–	–	●	●	–	–
	SVK	●	–	–	●	●	–	–
	Swisspearl	●	–	–	● ¹⁾	● ¹⁾	–	–
Glass / Glassceramics	VSG/ESG	–	–	–	–	● ¹⁾	–	–
	Astiglass	–	–	–	–	●	–	–
	BGT	–	–	–	–	●	–	–
	Neoparies	–	–	–	–	●	–	–
	Magna	–	–	–	–	● ¹⁾	–	–
	Stoneglass	–	–	–	–	●	–	–

1) Existing ETA or abZ available. For all other product combinations, please contact façades@fischer.de – we will find a solution.
2) Also available as a concealed solution

2

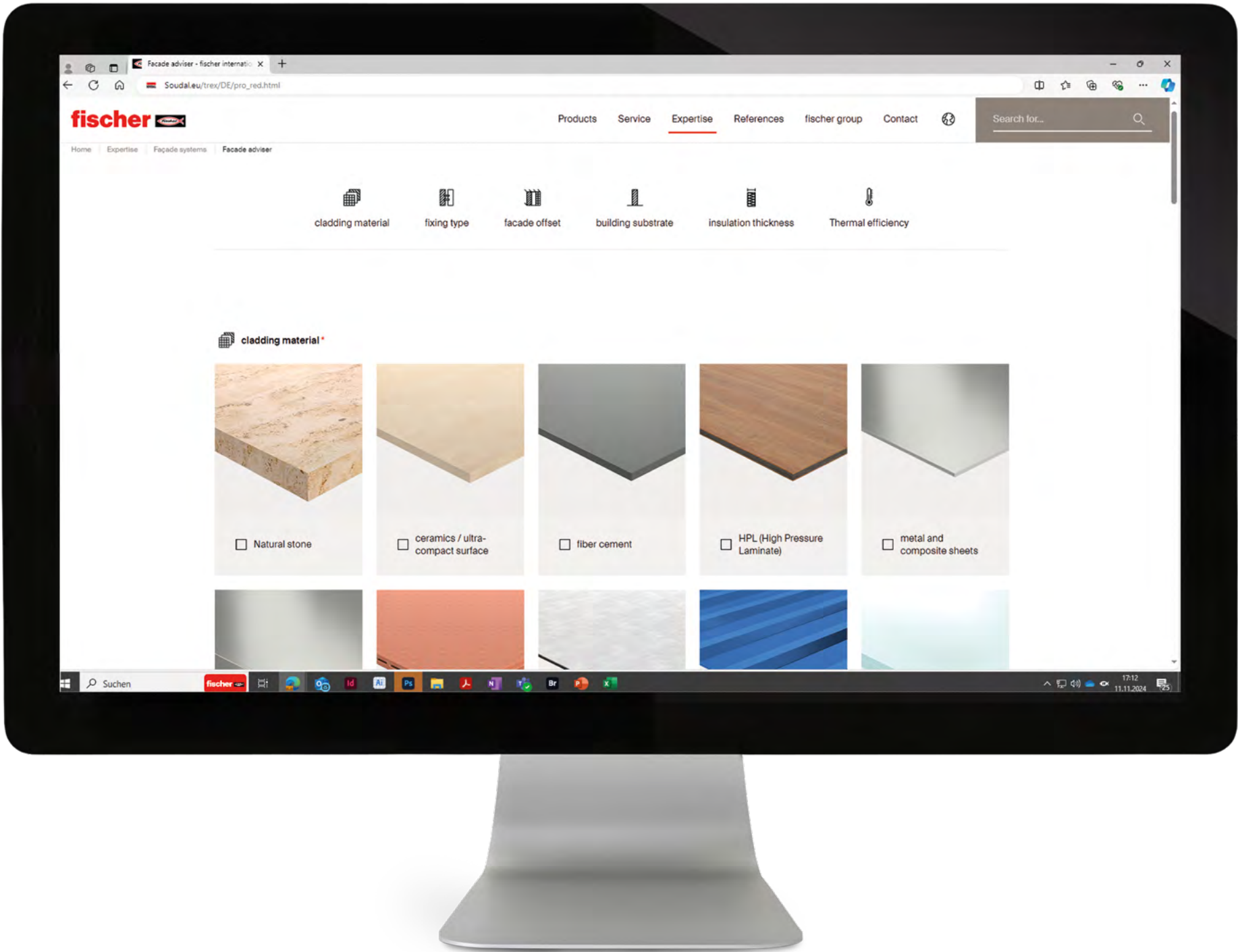
The fischer façade systems offer solutions for each and every cladding material.

Material	Manufacturer/Brand (e.g.)	Exposed fixing solution			Concealed fixing solution			
		ATK100 / ATK601 Rivet / screw	ATK100 + ATK100 KL Clamp	ATK102 Clamp	ATK100 + ATK103 Under-cut anchor	ATK101 + ATK103 Under-cut anchor	ATK106SZ20 or ATK107	ATK100 + ATK103 or PV-Clip
HPL	Fundermax	●	–	–	●	●	–	–
	Pfleiderer	●	–	–	●	●	–	–
	Resopal	●	–	–	●	●	–	–
	Rockpanel	●	–	–	●	●	–	–
	Trespa	●	–	–	●	●	–	–
Manufactured Stone	GFRC / UHPC	–	–	–	●	●	–	–
	Ducon	–	–	–	●	●	–	–
	Hering – betoShell	–	–	–	● ¹⁾	● ¹⁾	–	–
	Polycon	–	–	–	●	●	–	–
	Rieder – fibreC	–	–	–	●	●	–	–
	Concrete Skin	–	–	–				
Metal	Aluminum	●	–	–	–	–	●	–
	Corten Steel	●	–	–	–	–	●	–
	Steel, galvanized/ plated	●	–	–	–	–	●	–
Natural Stones	All natural stones (e.g. Granites, Limestones, Marbles, Sandstones, Slates etc.)	–	–	–	● ¹⁾	● ¹⁾	–	–
Plaster Carrier Plate	DAW – alsecco	●	–	–	–	–	–	–
	Knauf Aquapanel	●	–	–	–	–	–	–
	STO StoVentec	●	–	–	–	–	–	–
PV	framed moduls with mounting holes	–	–	–	–	–	–	●
	Antec	–	–	–	–	–	–	–
	Avancis	–	–	–	–	–	–	●
	Solarwatt	–	–	–	–	–	–	● ¹⁾
	Sunovation	–	–	–	–	–	–	●
Solid Surface	Avonite – Aristech	–	●	–	●	●	–	–
	Du Pont – Corian	–	●	–	●	●	–	–
	Hyundai Hanex	–	●	–	●	●	–	–
	Lotte Advanced Materials – Staron	–	–	–	–	–	–	–
	LX Hausys - Hi-Macs	–	●	–	●	●	–	–
	Polycon	–	●	–	●	●	–	–
Terracotta	Agrob Buchtal	–	–	● ²⁾	–	–	–	–
	Moeding	–	–	● ²⁾	–	–	–	–
	NBK – TerrArt	–	–	● ²⁾	–	–	–	–
	Tonality	–	–	● ²⁾	–	–	–	–

1) Existing ETA or abZ available. For all other product combinations, please contact façades@fischer.de – we will find a solution.
2) Also available as a concealed solution

Rainscreen façade advisor.

The digital tool for architects, consultants and contractors.



The façade advisor from fischer is a digital tool that helps architects, consultants and contractors to select the ideal façade system for ventilated curtain walls. In just a few clicks, users can find the suitable solution based on cladding material, fixing type, wall structure, building substrate,

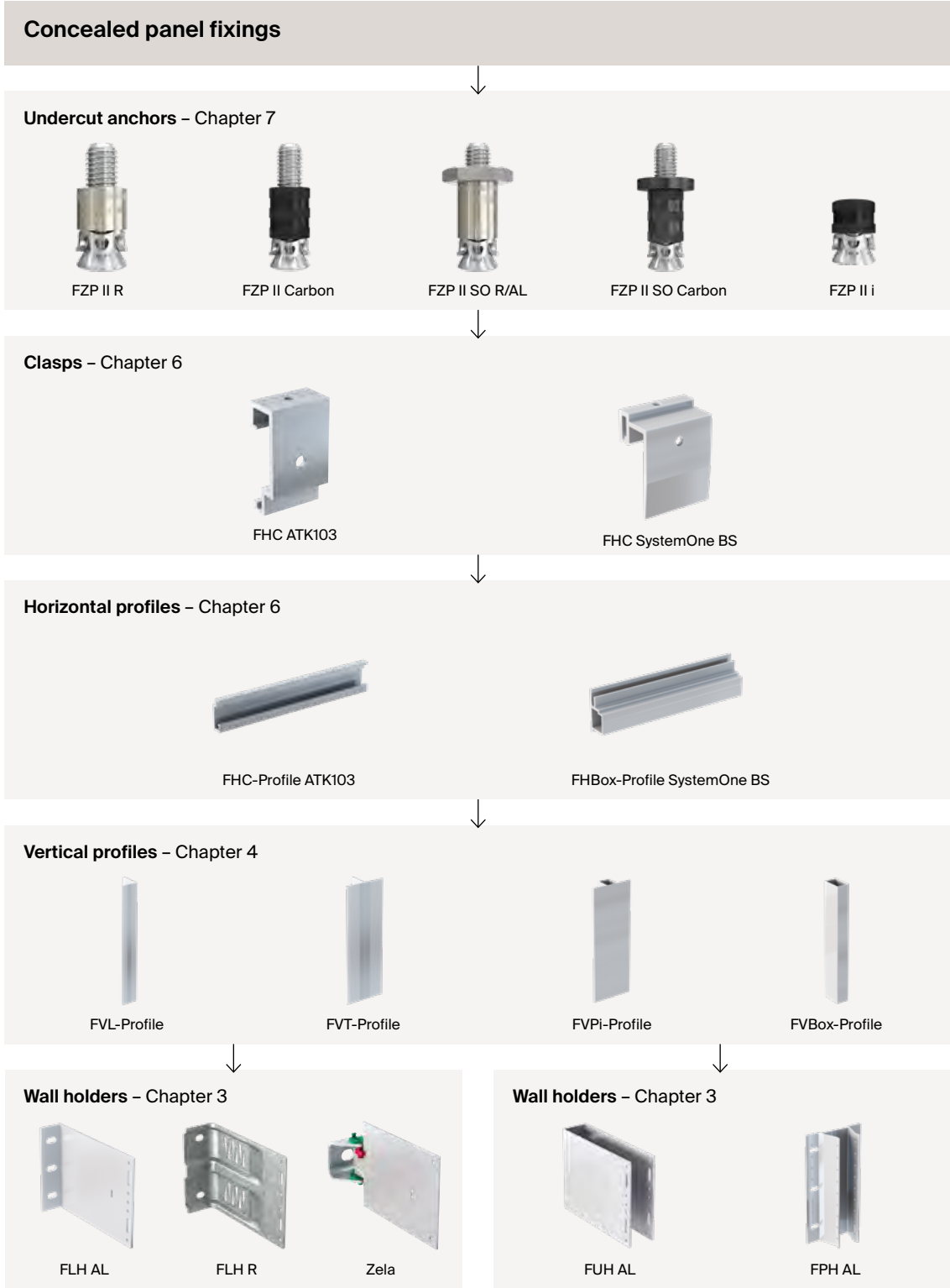
insulation thickness and thermal efficiency. The tool provides a system recommendation including CAD drawings, BIM data, technical characteristics and tender specifications, enabling quick and easy recommendations for façade projects.

For further information:
www.fischer-international.com/en/expertise/facade-systems/facade-adviser



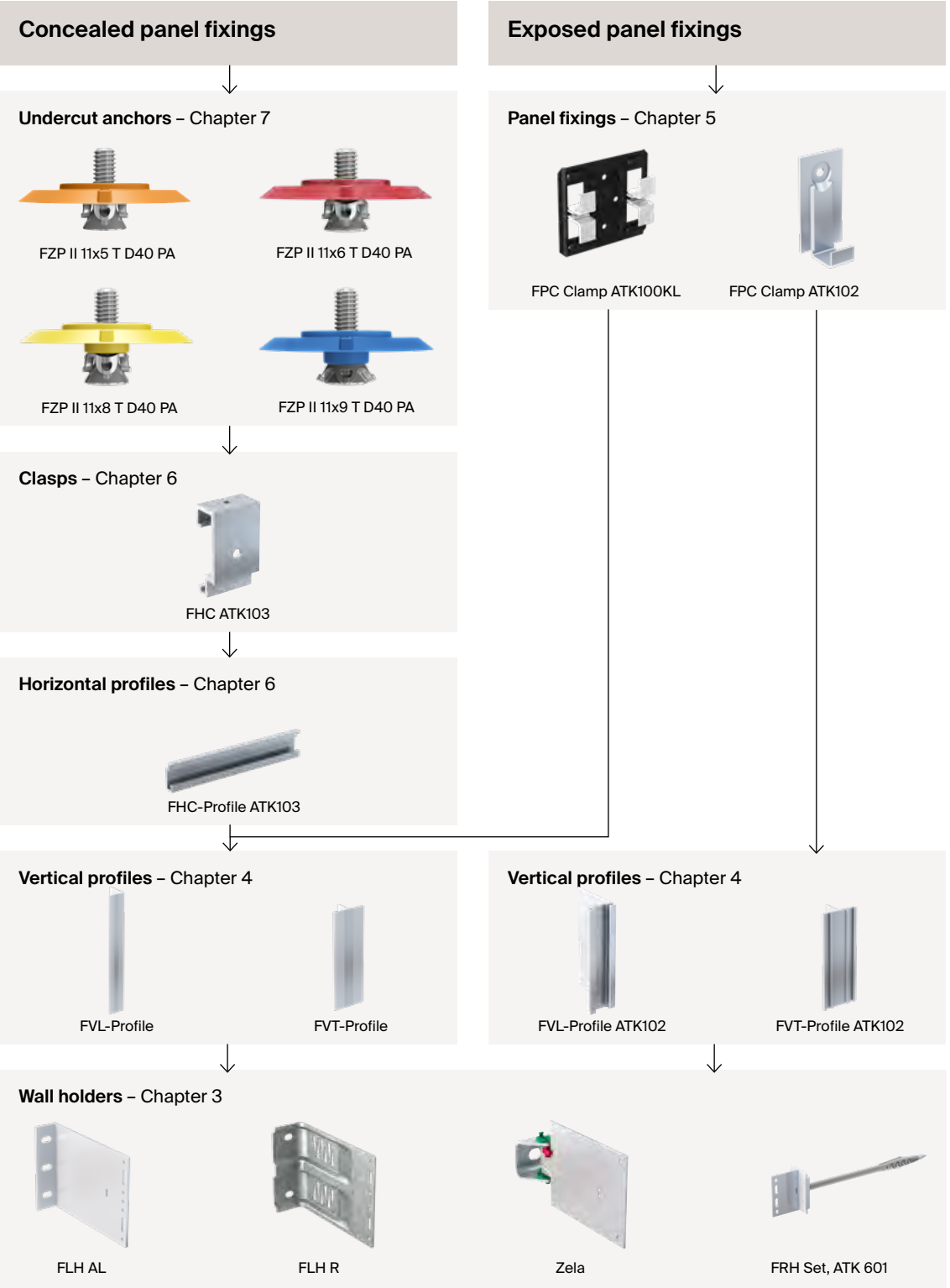
Natural stone

2



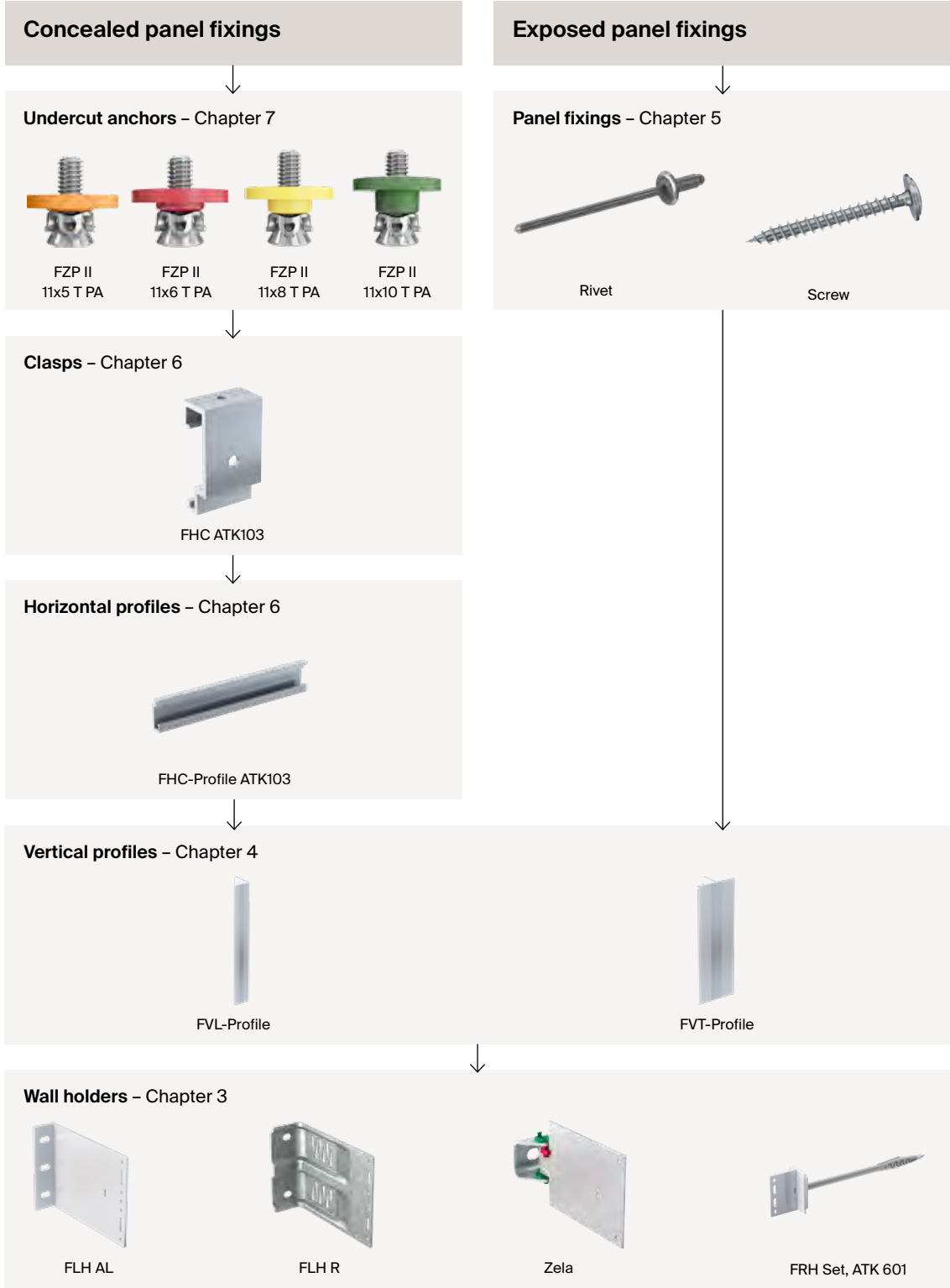
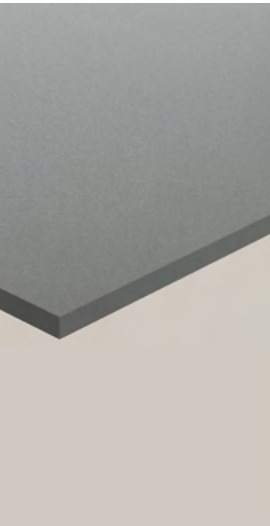
Ceramic

2



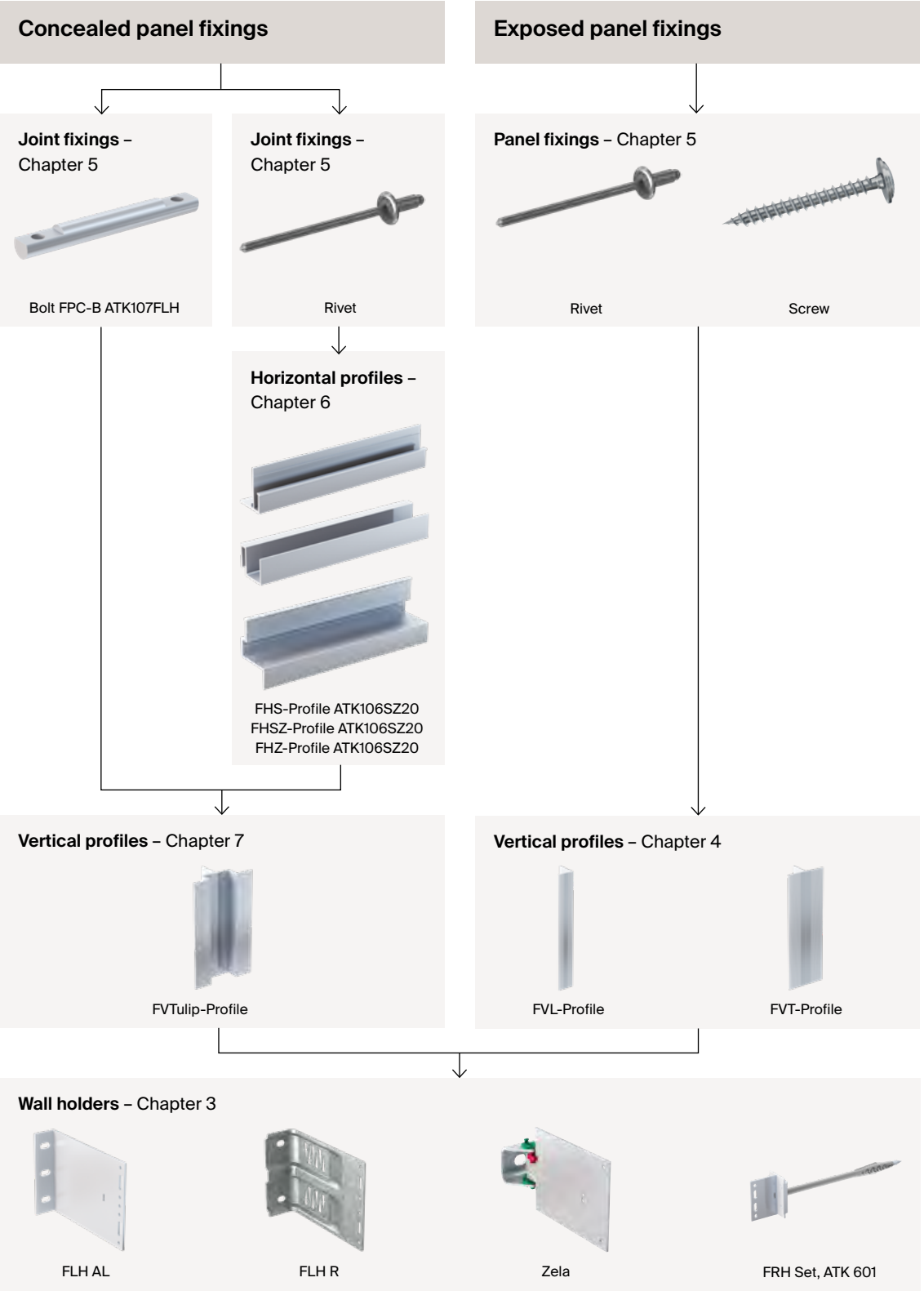
Fiber cement & HPL

2



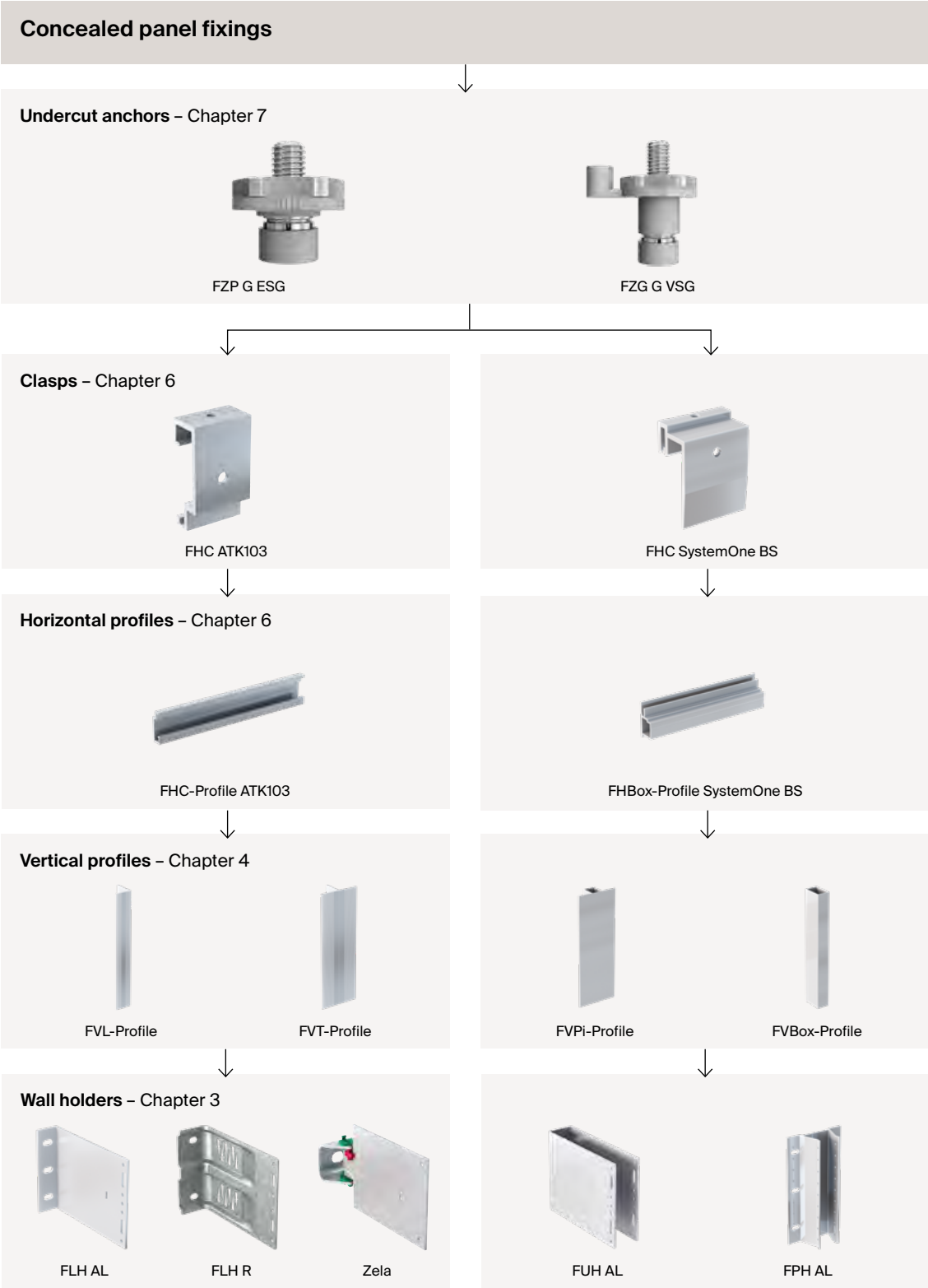
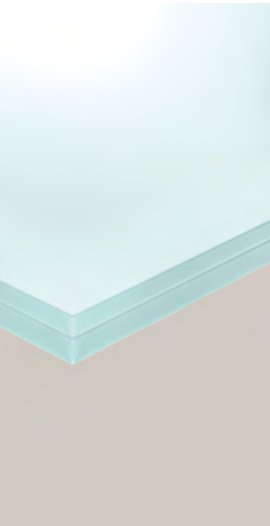
Metal

2



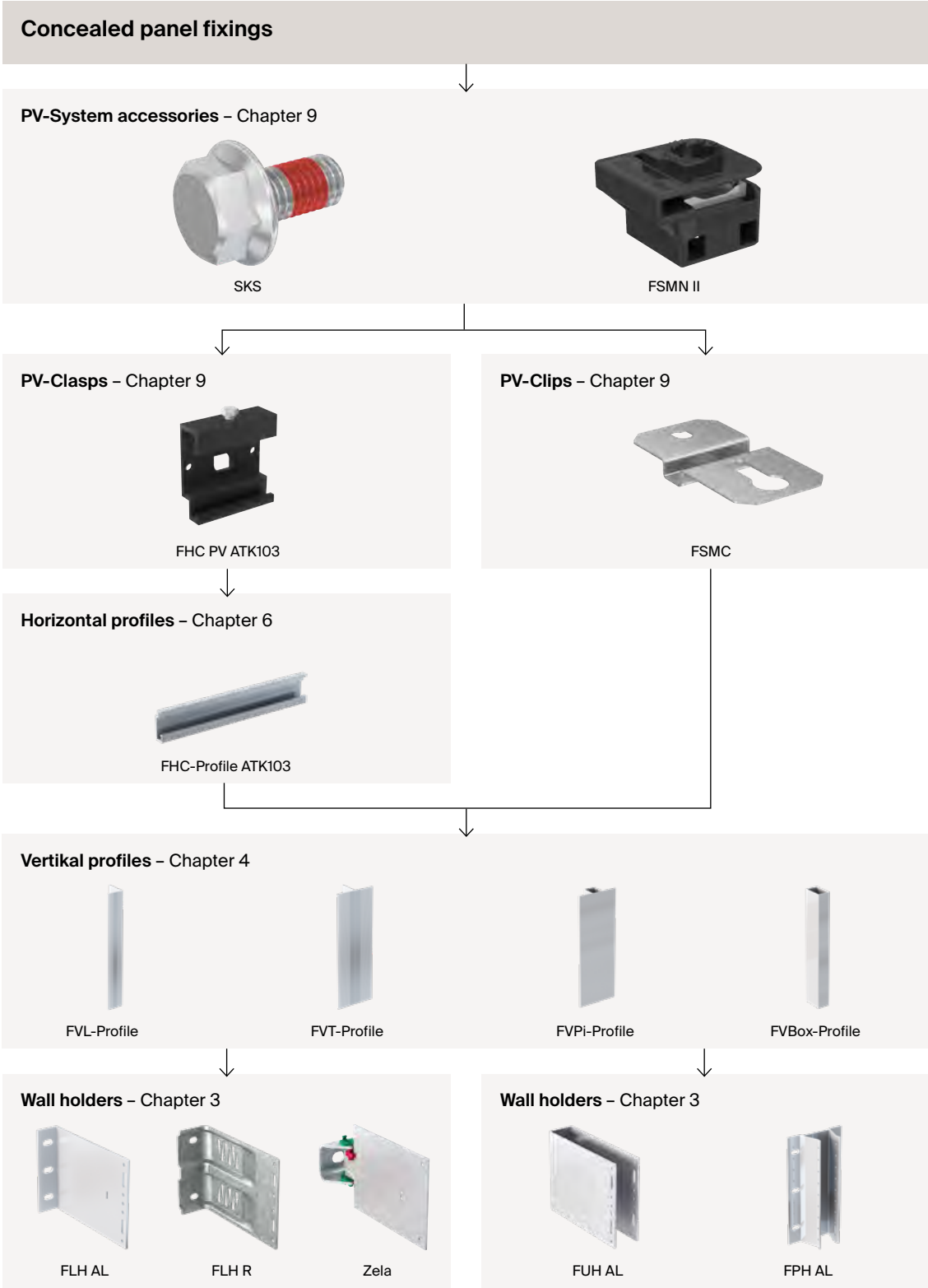
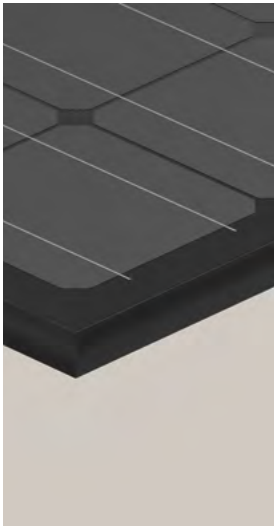
Glass

2



PV

2





KAFD Parcel 3.10 - Riyadh - Saudi Arabia

3

Wall holders

Product nomenclature	35	
Wall holders FLH AL	37	
Wall holders FLH R	53	
Wall holders ZeLa	57	
Wall holders FRH ATK 601	63	
Wall holders FUH AL	67	
Wall holders FPH AL	71	
Wall holders FTH AL	73	

Wall holders.

For the connection with the substrate in terms of load transfer and energy efficiency at ventilated rainscreen façades.

fischer offers high-performance wall holders as a critical component of the façade subframe for ventilated rainscreen façades, ensuring structural reliability and thermal efficiency.

Versatile and efficient solutions

Reliable load transfer: Wall holders securely attach to the building substrate using fischer fixings, such as the SXRL frame fixings, effectively transferring façade loads to the structure.

Adaptable for every application: The range includes standard L-wall holders and specialized solutions for structural optimization or façade renovations. Different projection lengths accommodate all common insulation thicknesses and façade projections.

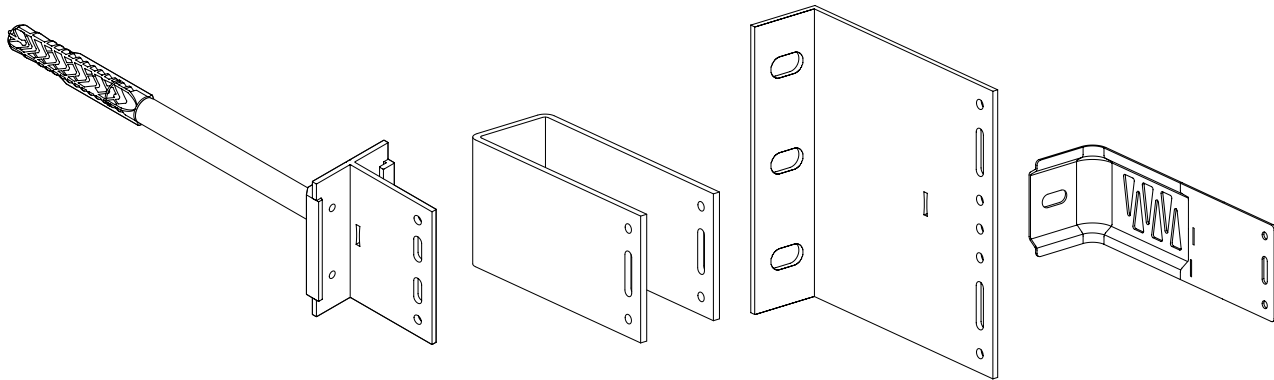
Thermal optimization and structural precision

Minimized thermal bridges: Optional thermostops enhance thermal separation, reducing energy loss. Thermally optimized wall brackets with low chi values contribute to superior insulation performance.

Fixed and sliding points: Designed to address thermal expansion, fixed points absorb façade dead loads, while sliding points with slotted holes enable profile movement, ensuring structural integrity under thermal changes.

Advantages at a glance:

- Thermally optimized wall brackets with minimized thermal bridging
- Improved insulation through low chi values
- Customized U-value calculations for precise thermal optimization
- Variety of wall holder types for diverse applications and materials
- Reliable load management with fixed and sliding point designs
- fischer’s innovative wall holders combine structural strength with thermal efficiency, tailored to your project needs.



Product nomenclature.

Shape: L, T, U, P
Z (ZeLa), R (Renovation)

Thickness

Quantity x hole diameter
for general fixing

Material

Holder

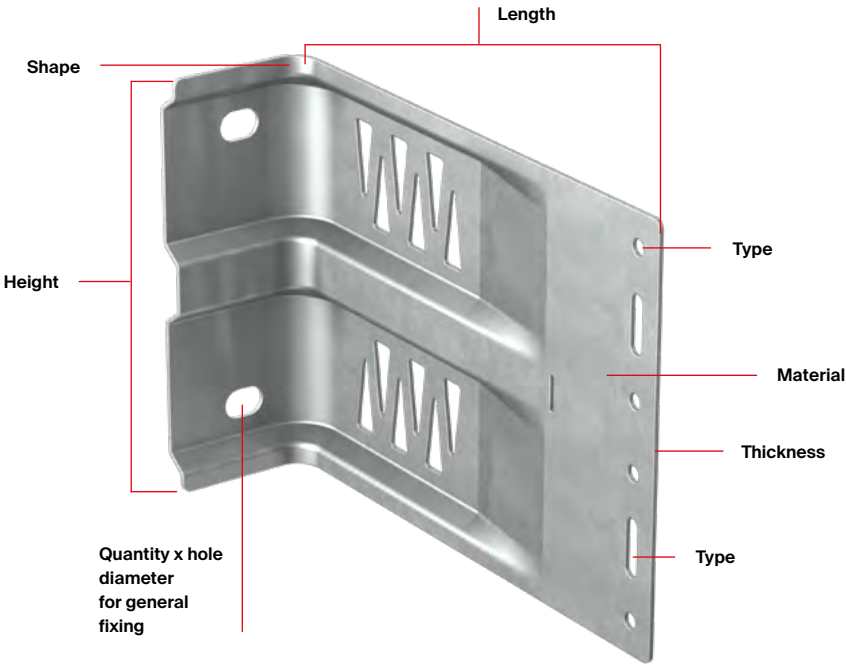
Length

Height

fischer

FLH 200x147x1,5/2x10,5/F-SP R

Type:
FP – Fixed point
SP – Sliding point
F-SP – Fixed-sliding point



Product nomenclature.

3

Shape: L, T, U, P
Z (ZeLa), R (Renovation)

Length

Thickness

Quantity x hole diameter
for general fixing

Material

Holder

Height

Width

Type:
FP – Fixed point
SP – Sliding point
F-SP – Fixed-sliding point

fischer

FPH 68x180x3-50/6x11-FP AL

Length

Shape

Thickness

Type

Material

Height

Width

Quantity x hole
diameter for
general fixing

Wall holders FLH AL

L-wall holder for ventilated rainscreen façades.

3

System illustration FLH AL with ATK100 and rivet
fixing in fibre cement

Façade cross-section FLH AL with ATK100 + panel
clamp FPC ATK100KL for ceramics

Applications

- As an angular L-shaped wall holder made of aluminium for the vertical subframe system ATK100
- For load transfer into the building substrate of subframe systems in ventilated rainscreen façades

Advantages

- The L-shaped geometry of the wall holder ensures optimised load transfer.
- The combination of wall holder and vertical profile ensures optimum compensation of tolerances in the building substrate.
- Compatible with all common fixings and connectors (e.g. fischer frame fixings and steel anchors).
- The predesigned hole pattern allows for quick and easy installation.
- Flexible adjustment of the vertical profile possible due to innovative helping hand clip on the wall holder.

Properties

- Aluminium (e. g. EN AW 6063, 6061)

Functioning

- Vertical load transfer from the subframe system into the building substrate
- Absorption of loads through the connection to the vertical profiles.
- Compensation of construction tolerances together with the vertical profiles
- Easy installation with common connection and fixing elements

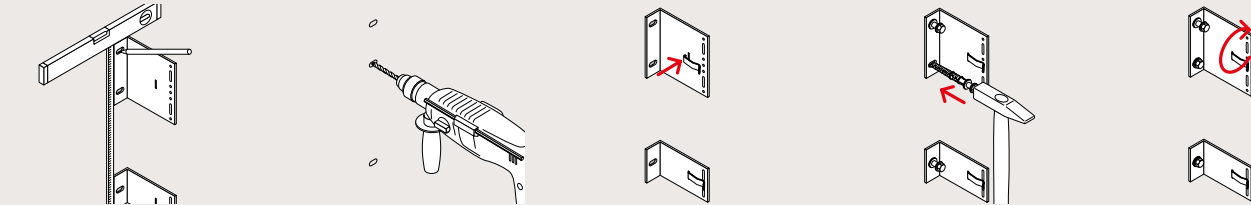
Building materials

- All building substrates

Certificates / Features



Installation FLH AL



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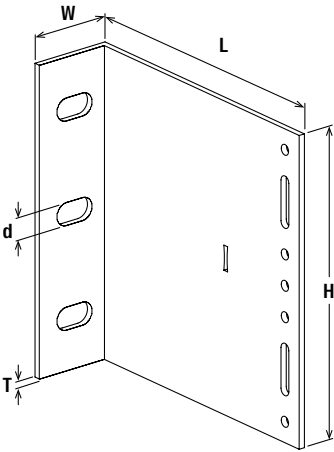
FLH 80 1x11 / 2x6.5 F-SP AL

Fixed-/ sliding point wall holders FLH 80 1x11 / 2x6.5 F-SP Aluminium

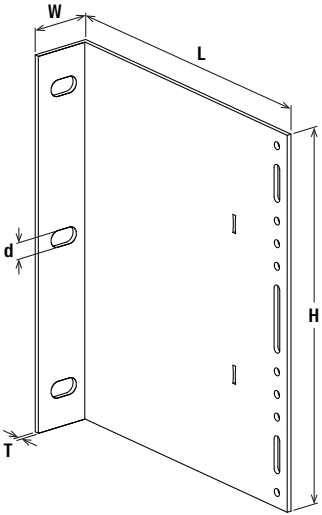


FLH 80 F-SP AL

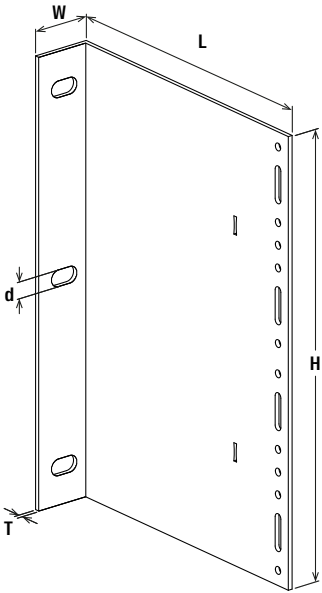
		Length	Width	Height	Thick- ness	Dimensi- ons	Dimensi- ons	Hole pattern	Hole pattern profile	Content per box	Sales unit
	Item no.	L [mm]	W [mm]	H [mm]	T [mm]	d [mm]	d ₂	[mm]	[mm]	[pcs.]	[pcs]
Item											
FLH 40x80x3/1x11;2x6.5/F-SP AL	558800	40	40	80	3	11x20	6.5x20	1x 11x20 / 2x 6.5x20	2x 5.1 / 2x5.5x15	100	1
FLH 60x80x3/1x11;2x6.5/F-SP AL	558805	60	40	80	3	11x20	6.5x20	1x 11x20 / 2x 6.5x20	2x 5.1 / 2x5.5x15	100	1
FLH 80x80x3/1x11;2x6.5/F-SP AL	558806	80	40	80	3	11x20	6.5x20	1x 11x20 / 2x 6.5x20	2x 5.1 / 2x5.5x15	100	1
FLH 100x80x3/1x11;2x6.5/F-SP AL	558807	100	40	80	3	11x20	6.5x20	1x 11x20 / 2x 6.5x20	2x 5.1 / 2x5.5x15	100	1
FLH 120x80x3/1x11;2x6.5/F-SP AL	558808	120	40	80	3	11x20	6.5x20	1x 11x20 / 2x 6.5x20	2x 5.1 / 2x5.5x15	100	1
FLH 140x80x3/1x11;2x6.5/F-SP AL	558809	140	40	80	3	11x20	6.5x20	1x 11x20 / 2x 6.5x20	2x 5.1 / 2x5.5x15	100	1
FLH 160x80x3/1x11;2x6.5/F-SP AL	558810	160	40	80	3	11x20	6.5x20	1x 11x20 / 2x 6.5x20	2x 5.1 / 2x5.5x15	100	1
FLH 180x80x3/1x11;2x6.5/F-SP AL	558811	180	40	80	3	11x20	6.5x20	1x 11x20 / 2x 6.5x20	2x 5.1 / 2x5.5x15	100	1
FLH 200x80x3/1x11;2x6.5/F-SP AL	558812	200	40	80	3	11x20	6.5x20	1x 11x20 / 2x 6.5x20	2x 5.1 / 2x5.5x15	100	1
FLH 220x80x3/1x11;2x6.5/F-SP AL	558813	220	40	80	3	11x20	6.5x20	1x 11x20 / 2x 6.5x20	2x 5.1 / 2x5.5x15	50	1
FLH 240x80x3/1x11;2x6.5/F-SP AL	558814	240	40	80	3	11x20	6.5x20	1x 11x20 / 2x 6.5x20	2x 5.1 / 2x5.5x15	50	1
FLH 260x80x3/1x11;2x6.5/F-SP AL	558815	260	40	80	3	11x20	6.5x20	1x 11x20 / 2x 6.5x20	2x 5.1 / 2x5.5x15	50	1
FLH 280x80x3/1x11;2x6.5/F-SP AL	558816	280	40	80	3	11x20	6.5x20	1x 11x20 / 2x 6.5x20	2x 5.1 / 2x5.5x15	50	1
FLH 300x80x3/1x11;2x6.5/F-SP AL	558817	300	40	80	3	11x20	6.5x20	1x 11x20 / 2x 6.5x20	2x 5.1 / 2x5.5x15	50	1
FLH 320x80x3/1x11;2x6.5/F-SP AL	558818	320	40	80	3	11x20	6.5x20	1x 11x20 / 2x 6.5x20	2x 5.1 / 2x5.5x15	50	1



FLH 150 F-SP AL



FLH 250 F-SP AL



FLH 300 F-SP AL

FLH 3x6.5 F-SP AL

Fixed-/ sliding point wall holders FLH 3x6.5 F-SP Aluminium



FLH 150 F-SP AL



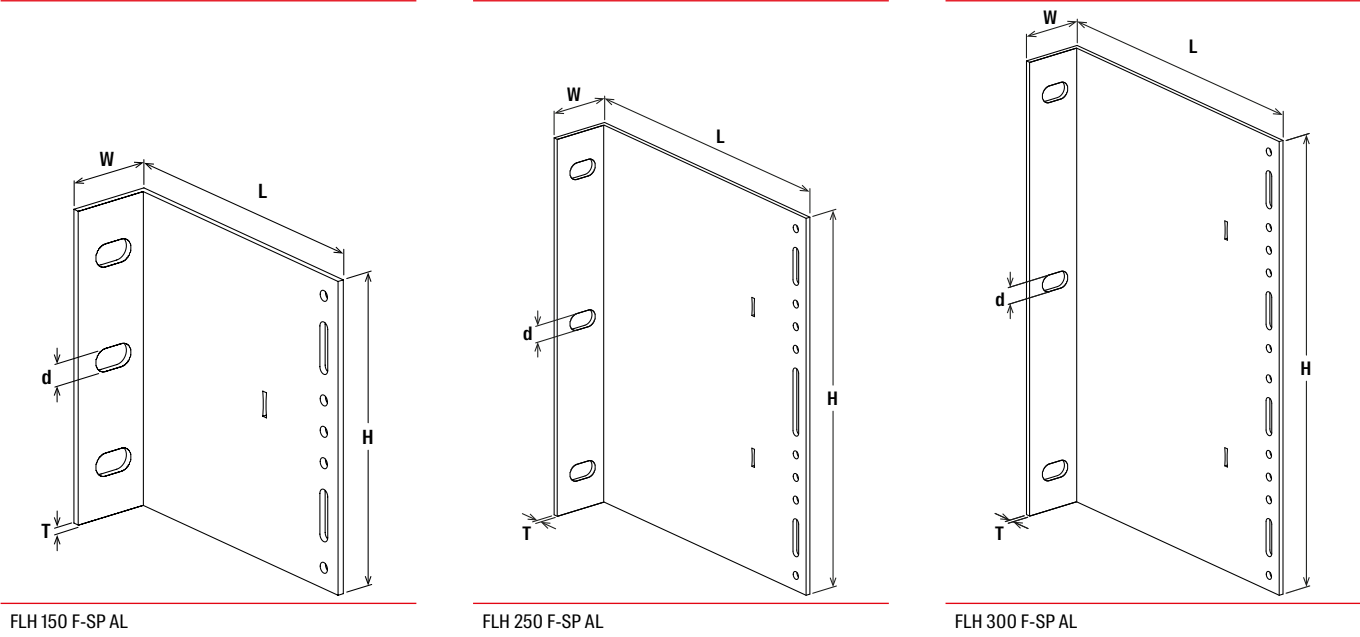
FLH 250 F-SP AL



FLH 300 F-SP AL

		Length	Width	Height	Thickness	Dimensions	Hole pattern	Hole pattern profile	Content per box	Sales unit
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Item										
FLH 40x150x3/3x6.5/F-SP AL	559297	40	40	150	3	6.5x20	3x 6.5x20	5x 5.1 / 2x 5.5x25	50	1
FLH 60x150x3/3x6.5/F-SP AL	559298	60	40	150	3	6.5x20	3x 6.5x20	5x 5.1 / 2x 5.5x25	50	1
FLH 80x150x3/3x6.5/F-SP AL	559299	80	40	150	3	6.5x20	3x 6.5x20	5x 5.1 / 2x 5.5x25	50	1
FLH 100x150x3/3x6.5/F-SP AL	559300	100	40	150	3	6.5x20	3x 6.5x20	5x 5.1 / 2x 5.5x25	50	1
FLH 120x150x3/3x6.5/F-SP AL	559301	120	40	150	3	6.5x20	3x 6.5x20	5x 5.1 / 2x 5.5x25	50	1
FLH 140x150x3/3x6.5/F-SP AL	559302	140	40	150	3	6.5x20	3x 6.5x20	5x 5.1 / 2x 5.5x25	50	1
FLH 160x150x3/3x6.5/F-SP AL	559303	160	40	150	3	6.5x20	3x 6.5x20	5x 5.1 / 2x 5.5x25	50	1
FLH 180x150x3/3x6.5/F-SP AL	559304	180	40	150	3	6.5x20	3x 6.5x20	5x 5.1 / 2x 5.5x25	50	1
FLH 200x150x3/3x6.5/F-SP AL	559305	200	40	150	3	6.5x20	3x 6.5x20	5x 5.1 / 2x 5.5x25	50	1
FLH 220x150x3/3x6.5/F-SP AL	559306	220	40	150	3	6.5x20	3x 6.5x20	5x 5.1 / 2x 5.5x25	25	1
FLH 240x150x3/3x6.5/F-SP AL	559307	240	40	150	3	6.5x20	3x 6.5x20	5x 5.1 / 2x 5.5x25	25	1
FLH 260x150x3/3x6.5/F-SP AL	559308	260	40	150	3	6.5x20	3x 6.5x20	5x 5.1 / 2x 5.5x25	25	1
FLH 280x150x3/3x6.5/F-SP AL	559309	280	40	150	3	6.5x20	3x 6.5x20	5x 5.1 / 2x 5.5x25	25	1
FLH 300x150x3/3x6.5/F-SP AL	559310	300	40	150	3	6.5x20	3x 6.5x20	5x 5.1 / 2x 5.5x25	25	1
FLH 320x150x3/3x6.5/F-SP AL	559311	320	40	150	3	6.5x20	3x 6.5x20	5x 5.1 / 2x 5.5x25	25	1
FLH 40x250x3/3x6.5/F-SP AL	559312	40	40	250	3	6.5x20	3x 6.5x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	50	1
FLH 60x250x3/3x6.5/F-SP AL	559313	60	40	250	3	6.5x20	3x 6.5x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	50	1
FLH 80x250x3/3x6.5/F-SP AL	559314	80	40	250	3	6.5x20	3x 6.5x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	50	1
FLH 100x250x3/3x6.5/F-SP AL	559315	100	40	250	3	6.5x20	3x 6.5x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	50	1
FLH 120x250x3/3x6.5/F-SP AL	559316	120	40	250	3	6.5x20	3x 6.5x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	50	1
FLH 140x250x3/3x6.5/F-SP AL	559317	140	40	250	3	6.5x20	3x 6.5x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	35	1
FLH 160x250x3/3x6.5/F-SP AL	559318	160	40	250	3	6.5x20	3x 6.5x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	35	1
FLH 180x250x3/3x6.5/F-SP AL	559319	180	40	250	3	6.5x20	3x 6.5x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	35	1
FLH 200x250x3/3x6.5/F-SP AL	559320	200	40	250	3	6.5x20	3x 6.5x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	25	1
FLH 220x250x3/3x6.5/F-SP AL	559321	220	40	250	3	6.5x20	3x 6.5x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	25	1
FLH 240x250x3/3x6.5/F-SP AL	559322	240	40	250	3	6.5x20	3x 6.5x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	20	1
FLH 260x250x3/3x6.5/F-SP AL	559323	260	40	250	3	6.5x20	3x 6.5x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	20	1

3



FLH 150 F-SP AL

FLH 250 F-SP AL

FLH 300 F-SP AL

FLH 3x6.5 F-SP AL

Fixed-/ sliding point wall holders FLH 3x6.5 F-SP Aluminium

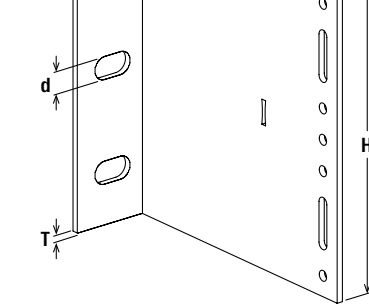


FLH 150 F-SP AL

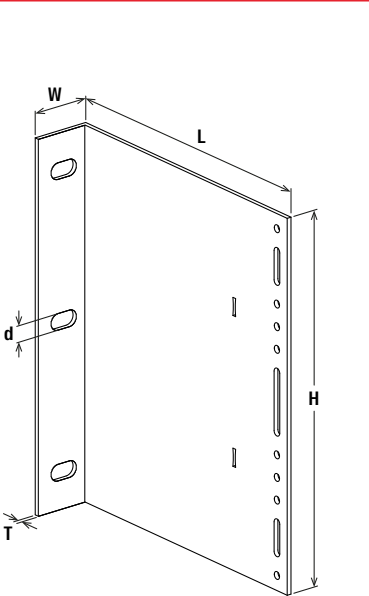
FLH 250 F-SP AL

FLH 300 F-SP AL

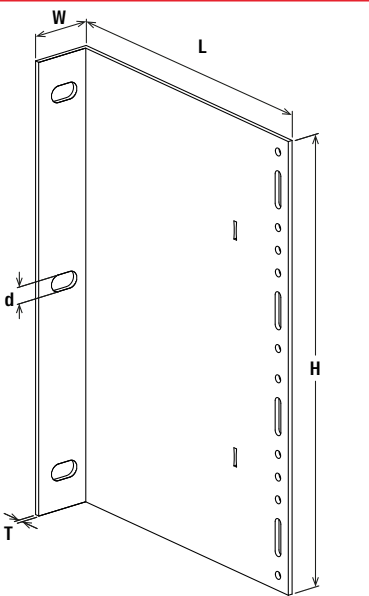
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	Item no.	L [mm]	W [mm]	H [mm]	T [mm]	d [mm]	[mm]	[mm]	[pcs.]	[pcs]
Item										
FLH 280x250x3/3x6.5/F-SP AL	559324	280	40	250	3	6.5x20	3x 6.5x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	15	1
FLH 300x250x3/3x6.5/F-SP AL	559325	300	40	250	3	6.5x20	3x 6.5x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	15	1
FLH 320x250x3/3x6.5/F-SP AL	559326	320	40	250	3	6.5x20	3x 6.5x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	15	1
FLH 40x300x3/3x6.5/F-SP AL	559327	40	40	300	3	6.5x20	3x 6.5x20	10x 5.1 / 4x 5.5x25	50	1
FLH 60x300x3/3x6.5/F-SP AL	559328	60	40	300	3	6.5x20	3x 6.5x20	10x 5.1 / 4x 5.5x25	50	1
FLH 80x300x3/3x6.5/F-SP AL	559329	80	40	300	3	6.5x20	3x 6.5x20	10x 5.1 / 4x 5.5x25	50	1
FLH 100x300x3/3x6.5/F-SP AL	559330	100	40	300	3	6.5x20	3x 6.5x20	10x 5.1 / 4x 5.5x25	35	1
FLH 120x300x3/3x6.5/F-SP AL	559331	120	40	300	3	6.5x20	3x 6.5x20	10x 5.1 / 4x 5.5x25	35	1
FLH 140x300x3/3x6.5/F-SP AL	559332	140	40	300	3	6.5x20	3x 6.5x20	10x 5.1 / 4x 5.5x25	35	1
FLH 160x300x3/3x6.5/F-SP AL	559333	160	40	300	3	6.5x20	3x 6.5x20	10x 5.1 / 4x 5.5x25	25	1
FLH 180x300x3/3x6.5/F-SP AL	559334	180	40	300	3	6.5x20	3x 6.5x20	10x 5.1 / 4x 5.5x25	25	1
FLH 200x300x3/3x6.5/F-SP AL	559335	200	40	300	3	6.5x20	3x 6.5x20	10x 5.1 / 4x 5.5x25	25	1
FLH 220x300x3/3x6.5/F-SP AL	559336	220	40	300	3	6.5x20	3x 6.5x20	10x 5.1 / 4x 5.5x25	20	1
FLH 240x300x3/3x6.5/F-SP AL	559337	240	40	300	3	6.5x20	3x 6.5x20	10x 5.1 / 4x 5.5x25	20	1
FLH 260x300x3/3x6.5/F-SP AL	559338	260	40	300	3	6.5x20	3x 6.5x20	10x 5.1 / 4x 5.5x25	15	1
FLH 280x300x3/3x6.5/F-SP AL	559339	280	40	300	3	6.5x20	3x 6.5x20	10x 5.1 / 4x 5.5x25	15	1
FLH 300x300x3/3x6.5/F-SP AL	559340	300	40	300	3	6.5x20	3x 6.5x20	10x 5.1 / 4x 5.5x25	15	1
FLH 320x300x3/3x6.5/F-SP AL	559341	320	40	300	3	6.5x20	3x 6.5x20	10x 5.1 / 4x 5.5x25	15	1



FLH 150 F-SP AL



FLH 250 F-SP AL



FLH 300 F-SP AL

FLH 3x9 F-SP AL

Fixed-/ sliding point wall holders FLH 3x9 F-SP Aluminium



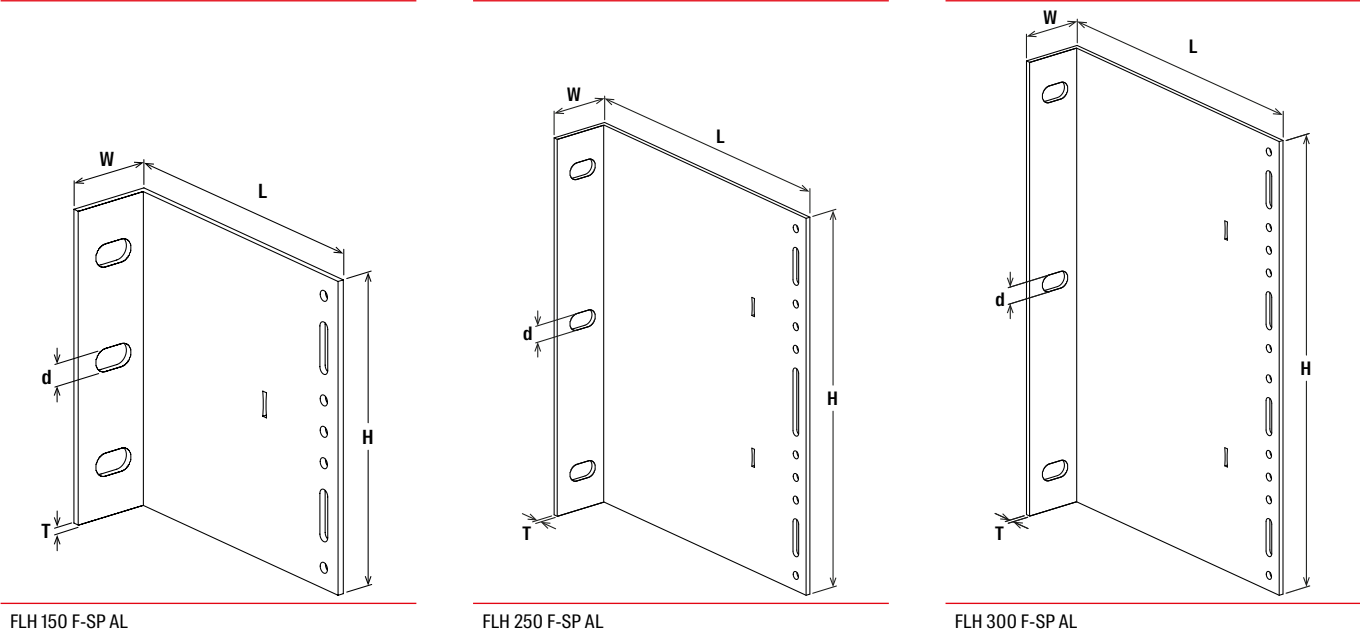
FLH 150 F-SP AL

FLH 250 F-SP AL

FLH 300 F-SP AL

		Length	Width	Height	Thickness	Dimensions	Hole pattern	Hole pattern profile	Content per box	Sales unit
	Item no.	L [mm]	W [mm]	H [mm]	T [mm]	d [mm]	[mm]	[mm]	[pcs.]	[pcs]
Item										
FLH 40x150x3/3x9/F-SP AL	559222	40	40	150	3	9x20	3x 9x20	5x 5.1 / 2x 5.5x25	50	1
FLH 60x150x3/3x9/F-SP AL	559223	60	40	150	3	9x20	3x 9x20	5x 5.1 / 2x 5.5x25	50	1
FLH 80x150x3/3x9/F-SP AL	559224	80	40	150	3	9x20	3x 9x20	5x 5.1 / 2x 5.5x25	50	1
FLH 100x150x3/3x9/F-SP AL	559225	100	40	150	3	9x20	3x 9x20	5x 5.1 / 2x 5.5x25	50	1
FLH 120x150x3/3x9/F-SP AL	559226	120	40	150	3	9x20	3x 9x20	5x 5.1 / 2x 5.5x25	50	1
FLH 140x150x3/3x9/F-SP AL	559227	140	40	150	3	9x20	3x 9x20	5x 5.1 / 2x 5.5x25	50	1
FLH 160x150x3/3x9/F-SP AL	559228	160	40	150	3	9x20	3x 9x20	5x 5.1 / 2x 5.5x25	50	1
FLH 180x150x3/3x9/F-SP AL	559229	180	40	150	3	9x20	3x 9x20	5x 5.1 / 2x 5.5x25	50	1
FLH 200x150x3/3x9/F-SP AL	559230	200	40	150	3	9x20	3x 9x20	5x 5.1 / 2x 5.5x25	50	1
FLH 220x150x3/3x9/F-SP AL	559231	220	40	150	3	9x20	3x 9x20	5x 5.1 / 2x 5.5x25	25	1
FLH 240x150x3/3x9/F-SP AL	559232	240	40	150	3	9x20	3x 9x20	5x 5.1 / 2x 5.5x25	25	1
FLH 260x150x3/3x9/F-SP AL	559233	260	40	150	3	9x20	3x 9x20	5x 5.1 / 2x 5.5x25	25	1
FLH 280x150x3/3x9/F-SP AL	559234	280	40	150	3	9x20	3x 9x20	5x 5.1 / 2x 5.5x25	25	1
FLH 300x150x3/3x9/F-SP AL	559235	300	40	150	3	9x20	3x 9x20	5x 5.1 / 2x 5.5x25	25	1
FLH 320x150x3/3x9/F-SP AL	559236	320	40	150	3	9x20	3x 9x20	5x 5.1 / 2x 5.5x25	25	1
FLH 40x250x3/3x9/F-SP AL	559237	40	40	250	3	9x20	3x 9x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	50	1
FLH 60x250x3/3x9/F-SP AL	559238	60	40	250	3	9x20	3x 9x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	50	1
FLH 80x250x3/3x9/F-SP AL	559239	80	40	250	3	9x20	3x 9x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	50	1
FLH 100x250x3/3x9/F-SP AL	559240	100	40	250	3	9x20	3x 9x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	50	1
FLH 120x250x3/3x9/F-SP AL	559241	120	40	250	3	9x20	3x 9x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	50	1
FLH 140x250x3/3x9/F-SP AL	559242	140	40	250	3	9x20	3x 9x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	35	1
FLH 160x250x3/3x9/F-SP AL	559243	160	40	250	3	9x20	3x 9x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	35	1
FLH 180x250x3/3x9/F-SP AL	559244	180	40	250	3	9x20	3x 9x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	35	1
FLH 200x250x3/3x9/F-SP AL	559245	200	40	250	3	9x20	3x 9x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	25	1
FLH 220x250x3/3x9/F-SP AL	559246	220	40	250	3	9x20	3x 9x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	25	1
FLH 240x250x3/3x9/F-SP AL	559247	240	40	250	3	9x20	3x 9x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	20	1
FLH 260x250x3/3x9/F-SP AL	559248	260	40	250	3	9x20	3x 9x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	20	1

3



FLH 150 F-SP AL

FLH 250 F-SP AL

FLH 300 F-SP AL

FLH 3x9 F-SP AL

Fixed-/ sliding point wall holders FLH 3x9 F-SP Aluminium

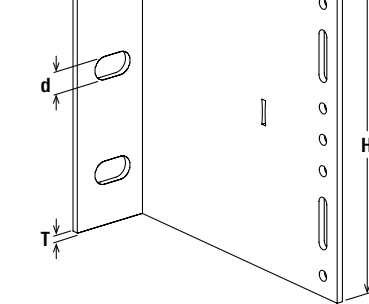


FLH 150 F-SP AL

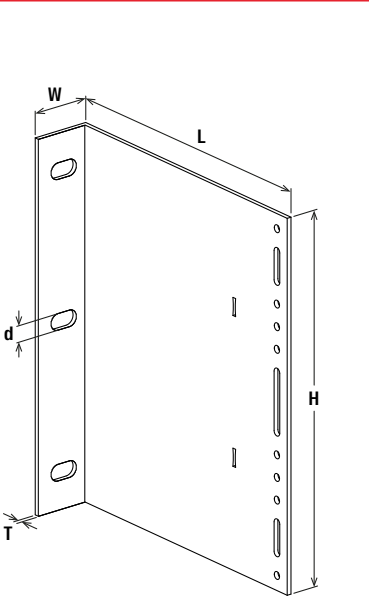
FLH 250 F-SP AL

FLH 300 F-SP AL

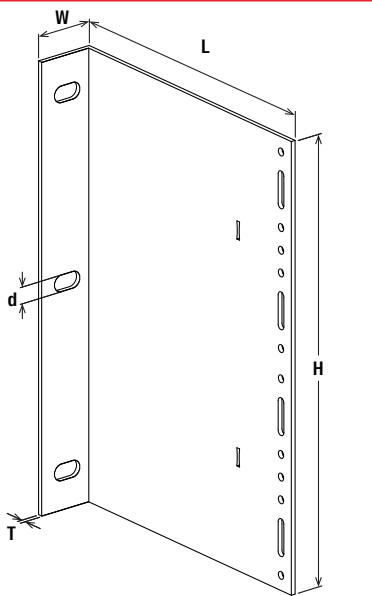
		Length	Width	Height	Thickness	Dimensions	Hole pattern	Hole pattern profile	Content per box	Sales unit
	Item no.	L [mm]	W [mm]	H [mm]	T [mm]	d [mm]	[mm]	[mm]	[pcs.]	[pcs]
Item										
FLH 280x250x3/3x9/F-SP AL	559249	280	40	250	3	9x20	3x 9x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	15	1
FLH 300x250x3/3x9/F-SP AL	559250	300	40	250	3	9x20	3x 9x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	15	1
FLH 320x250x3/3x9/F-SP AL	559251	320	40	250	3	9x20	3x 9x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	15	1
FLH 40x300x3/3x9/F-SP AL	559252	40	40	300	3	9x20	3x 9x20	10x 5.1 / 4x 5.5x25	50	1
FLH 60x300x3/3x9/F-SP AL	559253	60	40	300	3	9x20	3x 9x20	10x 5.1 / 4x 5.5x25	50	1
FLH 80x300x3/3x9/F-SP AL	559254	80	40	300	3	9x20	3x 9x20	10x 5.1 / 4x 5.5x25	50	1
FLH 100x300x3/3x9/F-SP AL	559255	100	40	300	3	9x20	3x 9x20	10x 5.1 / 4x 5.5x25	35	1
FLH 120x300x3/3x9/F-SP AL	559256	120	40	300	3	9x20	3x 9x20	10x 5.1 / 4x 5.5x25	35	1
FLH 140x300x3/3x9/F-SP AL	559257	140	40	300	3	9x20	3x 9x20	10x 5.1 / 4x 5.5x25	35	1
FLH 160x300x3/3x9/F-SP AL	559258	160	40	300	3	9x20	3x 9x20	10x 5.1 / 4x 5.5x25	25	1
FLH 180x300x3/3x9/F-SP AL	559259	180	40	300	3	9x20	3x 9x20	10x 5.1 / 4x 5.5x25	25	1
FLH 200x300x3/3x9/F-SP AL	559260	200	40	300	3	9x20	3x 9x20	10x 5.1 / 4x 5.5x25	25	1
FLH 220x300x3/3x9/F-SP AL	559261	220	40	300	3	9x20	3x 9x20	10x 5.1 / 4x 5.5x25	20	1
FLH 240x300x3/3x9/F-SP AL	559262	240	40	300	3	9x20	3x 9x20	10x 5.1 / 4x 5.5x25	20	1
FLH 260x300x3/3x9/F-SP AL	559263	260	40	300	3	9x20	3x 9x20	10x 5.1 / 4x 5.5x25	15	1
FLH 280x300x3/3x9/F-SP AL	559264	280	40	300	3	9x20	3x 9x20	10x 5.1 / 4x 5.5x25	15	1
FLH 300x300x3/3x9/F-SP AL	559265	300	40	300	3	9x20	3x 9x20	10x 5.1 / 4x 5.5x25	15	1
FLH 320x300x3/3x9/F-SP AL	559266	320	40	300	3	9x20	3x 9x20	10x 5.1 / 4x 5.5x25	15	1



FLH 150 F-SP AL



FLH 250 F-SP AL



FLH 300 F-SP AL

FLH 3x11 F-SP AL

Fixed-/ sliding point wall holders FLH 3x11 F-SP Aluminium

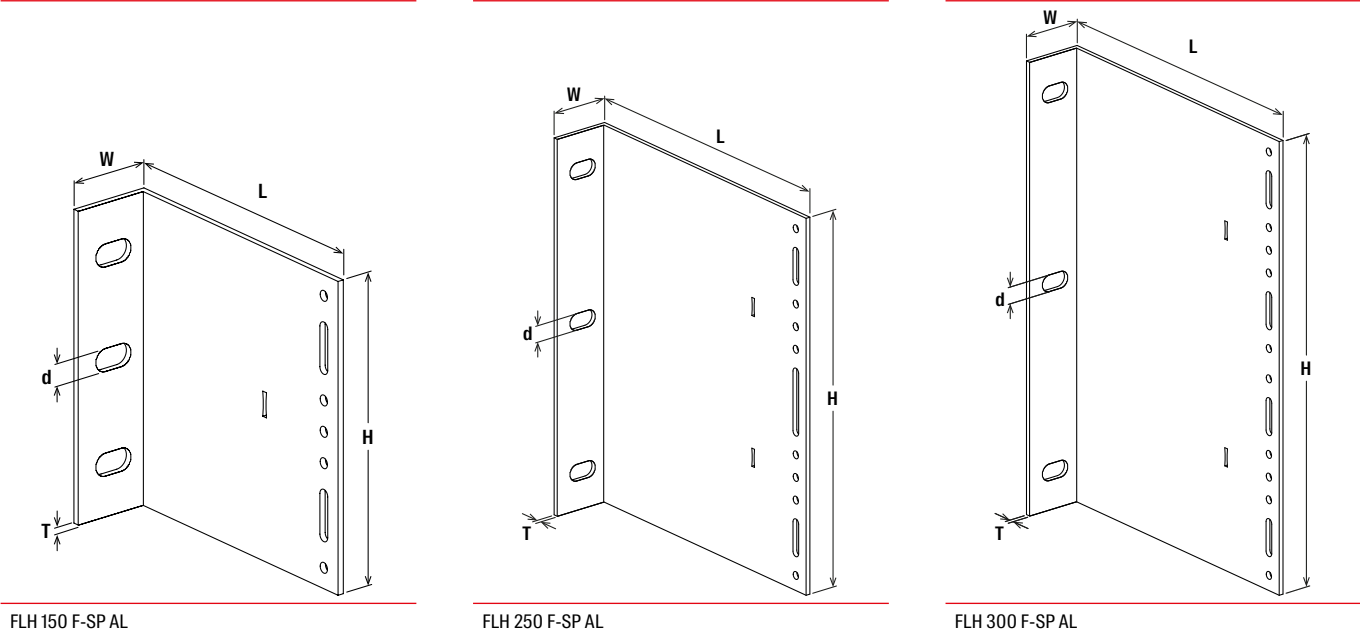


FLH 150 F-SP AL

FLH 250 F-SP AL

FLH 300 F-SP AL

		Length	Width	Height	Thickness	Dimensions	Hole pattern	Hole pattern profile	Content per box	Sales unit
	Item no.	L [mm]	W [mm]	H [mm]	T [mm]	d [mm]	[mm]	[mm]	[pcs.]	[pcs]
Item										
FLH 40x150x3/3x11/F-SP AL	548062	40	40	150	3	11x20	3x 11x20	5x 5.1 / 2x 5.5x25	50	1
FLH 60x150x3/3x11/F-SP AL	547168	60	40	150	3	11x20	3x 11x20	5x 5.1 / 2x 5.5x25	50	1
FLH 80x150x3/3x11/F-SP AL	548071	80	40	150	3	11x20	3x 11x20	5x 5.1 / 2x 5.5x25	50	1
FLH 100x150x3/3x11/F-SP AL	548077	100	40	150	3	11x20	3x 11x20	5x 5.1 / 2x 5.5x25	50	1
FLH 120x150x3/3x11/F-SP AL	548083	120	40	150	3	11x20	3x 11x20	5x 5.1 / 2x 5.5x25	50	1
FLH 140x150x3/3x11/F-SP AL	548089	140	40	150	3	11x20	3x 11x20	5x 5.1 / 2x 5.5x25	50	1
FLH 160x150x3/3x11/F-SP AL	548107	160	40	150	3	11x20	3x 11x20	5x 5.1 / 2x 5.5x25	50	1
FLH 180x150x3/3x11/F-SP AL	548110	180	40	150	3	11x20	3x 11x20	5x 5.1 / 2x 5.5x25	50	1
FLH 200x150x3/3x11/F-SP AL	548113	200	40	150	3	11x20	3x 11x20	5x 5.1 / 2x 5.5x25	50	1
FLH 220x150x3/3x11/F-SP AL	548116	220	40	150	3	11x20	3x 11x20	5x 5.1 / 2x 5.5x25	25	1
FLH 240x150x3/3x11/F-SP AL	548119	240	40	150	3	11x20	3x 11x20	5x 5.1 / 2x 5.5x25	25	1
FLH 260x150x3/3x11/F-SP AL	548122	260	40	150	3	11x20	3x 11x20	5x 5.1 / 2x 5.5x25	25	1
FLH 280x150x3/3x11/F-SP AL	548125	280	40	150	3	11x20	3x 11x20	5x 5.1 / 2x 5.5x25	25	1
FLH 300x150x3/3x11/F-SP AL	548128	300	40	150	3	11x20	3x 11x20	5x 5.1 / 2x 5.5x25	25	1
FLH 320x150x3/3x11/F-SP AL	548132	320	40	150	3	11x20	3x 11x20	5x 5.1 / 2x 5.5x25	25	1
FLH 40x250x3/3x11/F-SP AL	565057	40	40	250	3	11x20	3x 11x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	50	1
FLH 60x250x3/3x11/F-SP AL	565001	60	40	250	3	11x20	3x 11x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	50	1
FLH 80x250x3/3x11/F-SP AL	565005	80	40	250	3	11x20	3x 11x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	50	1
FLH 100x250x3/3x11/F-SP AL	565009	100	40	250	3	11x20	3x 11x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	50	1
FLH 120x250x3/3x11/F-SP AL	565013	120	40	250	3	11x20	3x 11x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	50	1
FLH 140x250x3/3x11/F-SP AL	565017	140	40	250	3	11x20	3x 11x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	35	1
FLH 160x250x3/3x11/F-SP AL	565021	160	40	250	3	11x20	3x 11x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	35	1
FLH 180x250x3/3x11/F-SP AL	565025	180	40	250	3	11x20	3x 11x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	35	1
FLH 200x250x3/3x11/F-SP AL	565029	200	40	250	3	11x20	3x 11x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	25	1
FLH 220x250x3/3x11/F-SP AL	565033	220	40	250	3	11x20	3x 11x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	25	1
FLH 240x250x3/3x11/F-SP AL	565037	240	40	250	3	11x20	3x 11x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	20	1
FLH 260x250x3/3x11/F-SP AL	565041	260	40	250	3	11x20	3x 11x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	20	1



FLH 150 F-SP AL

FLH 250 F-SP AL

FLH 300 F-SP AL

FLH 3x11 F-SP AL

Fixed-/ sliding point wall holders FLH 3x11 F-SP Aluminium

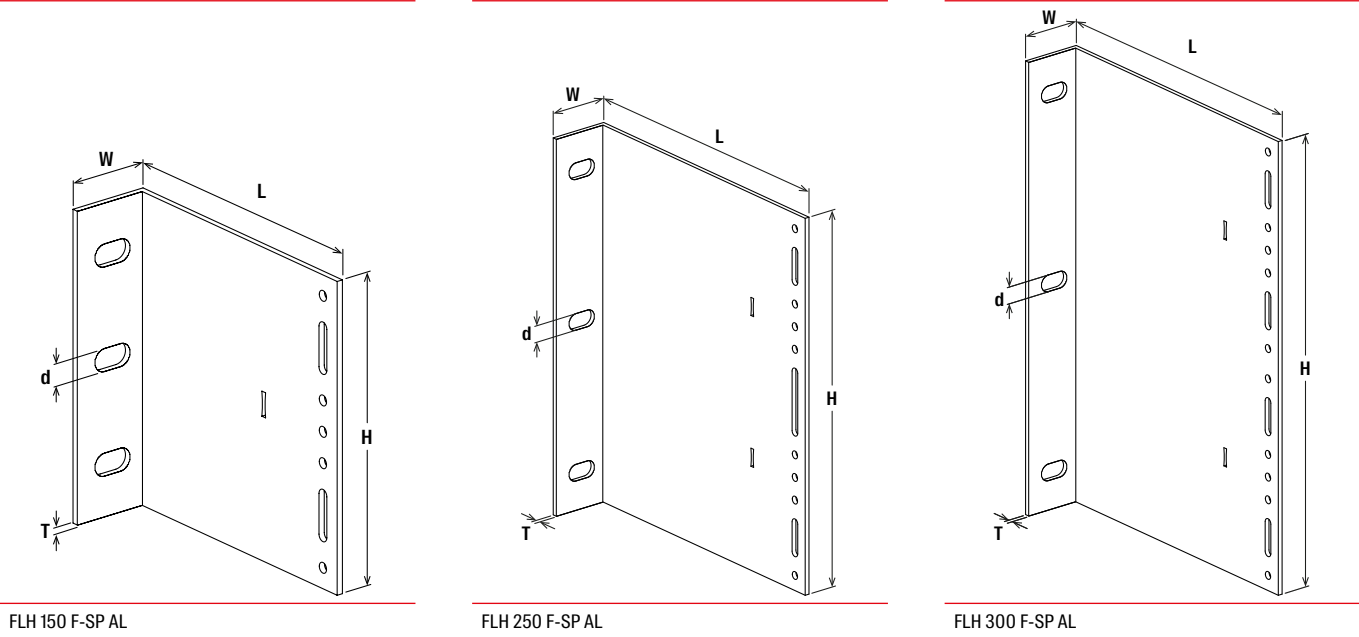


FLH 150 F-SP AL

FLH 250 F-SP AL

FLH 300 F-SP AL

Item	Item no.	Length	Width	Height	Thickness	Dimensions	Hole pattern	Hole pattern profile	Content per box	Sales unit
		L [mm]	W [mm]	H [mm]	T [mm]	d [mm]	[mm]	[mm]	[pcs.]	[pcs]
FLH 280x250x3/3x11/F-SP AL	565045	280	40	250	3	11x20	3x 11x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	15	1
FLH 300x250x3/3x11/F-SP AL	565049	300	40	250	3	11x20	3x 11x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	15	1
FLH 320x250x3/3x11/F-SP AL	565053	320	40	250	3	11x20	3x 11x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	15	1
FLH 40x300x3/3x11/F-SP AL	565058	40	40	300	3	11x20	3x 11x20	10x 5.1 / 4x 5.5x25	50	1
FLH 60x300x3/3x11/F-SP AL	565002	60	40	300	3	11x20	3x 11x20	10x 5.1 / 4x 5.5x25	50	1
FLH 80x300x3/3x11/F-SP AL	565006	80	40	300	3	11x20	3x 11x20	10x 5.1 / 4x 5.5x25	50	1
FLH 100x300x3/3x11/F-SP AL	565010	100	40	300	3	11x20	3x 11x20	10x 5.1 / 4x 5.5x25	35	1
FLH 120x300x3/3x11/F-SP AL	565014	120	40	300	3	11x20	3x 11x20	10x 5.1 / 4x 5.5x25	35	1
FLH 140x300x3/3x11/F-SP AL	565018	140	40	300	3	11x20	3x 11x20	10x 5.1 / 4x 5.5x25	35	1
FLH 160x300x3/3x11/F-SP AL	565022	160	40	300	3	11x20	3x 11x20	10x 5.1 / 4x 5.5x25	25	1
FLH 180x300x3/3x11/F-SP AL	565026	180	40	300	3	11x20	3x 11x20	10x 5.1 / 4x 5.5x25	25	1
FLH 200x300x3/3x11/F-SP AL	565030	200	40	300	3	11x20	3x 11x20	10x 5.1 / 4x 5.5x25	25	1
FLH 220x300x3/3x11/F-SP AL	565034	220	40	300	3	11x20	3x 11x20	10x 5.1 / 4x 5.5x25	20	1
FLH 240x300x3/3x11/F-SP AL	565038	240	40	300	3	11x20	3x 11x20	10x 5.1 / 4x 5.5x25	20	1
FLH 260x300x3/3x11/F-SP AL	565042	260	40	300	3	11x20	3x 11x20	10x 5.1 / 4x 5.5x25	15	1
FLH 280x300x3/3x11/F-SP AL	565046	280	40	300	3	11x20	3x 11x20	10x 5.1 / 4x 5.5x25	15	1
FLH 300x300x3/3x11/F-SP AL	565050	300	40	300	3	11x20	3x 11x20	10x 5.1 / 4x 5.5x25	15	1
FLH 320x300x3/3x11/F-SP AL	565054	320	40	300	3	11x20	3x 11x20	10x 5.1 / 4x 5.5x25	15	1



FLH 150 F-SP AL

FLH 250 F-SP AL

FLH 300 F-SP AL

FLH 3x15 F-SP AL

Fixed-/ sliding point wall holders FLH 3x15 F-SP Aluminium

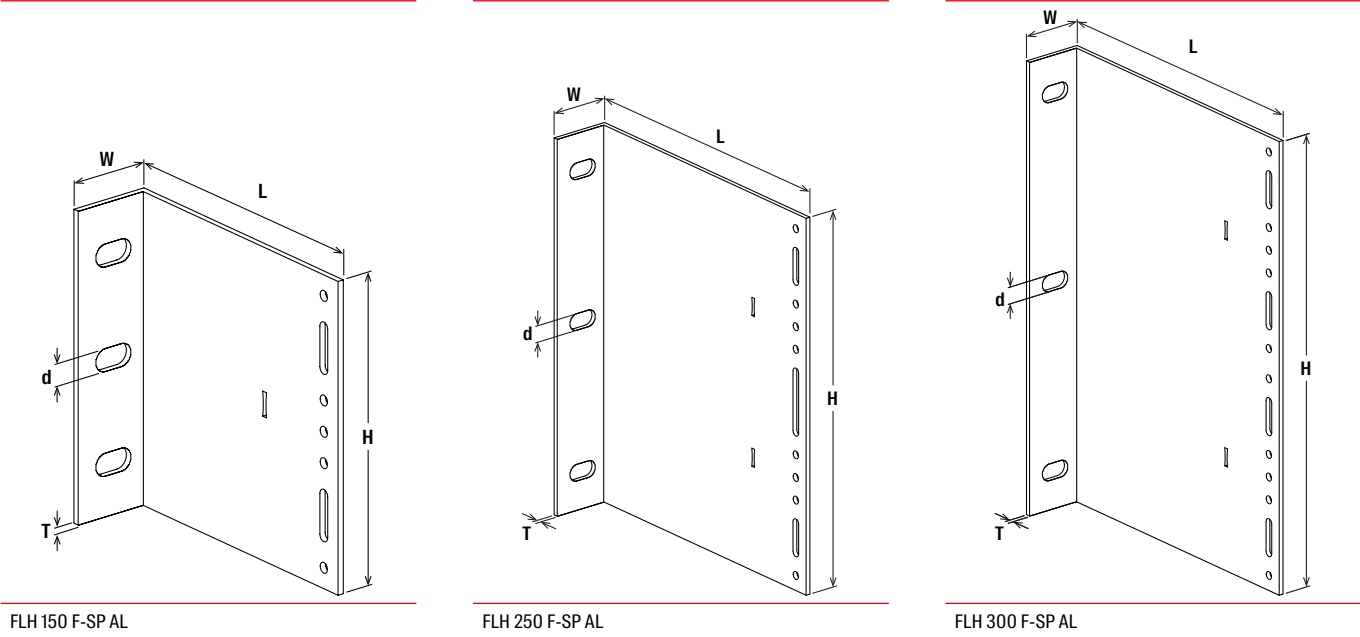


FLH 150 F-SP AL

FLH 250 F-SP AL

FLH 300 F-SP AL

Item	Item no.	Length	Width	Height	Thickness	Dimensions	Hole pattern	Hole pattern profile	Content per box	Sales unit
		L [mm]	W [mm]	H [mm]	T [mm]	d [mm]	[mm]	[mm]	[pcs.]	[pcs]
FLH 40x150x3/3x15/F-SP AL	548092	40	40	150	3	15x20	3x 15x20	5x 5.1 / 2x 5.5x25	50	1
FLH 60x150x3/3x15/F-SP AL	548018	60	40	150	3	15x20	3x 15x20	5x 5.1 / 2x 5.5x25	50	1
FLH 80x150x3/3x15/F-SP AL	548024	80	40	150	3	15x20	3x 15x20	5x 5.1 / 2x 5.5x25	50	1
FLH 100x150x3/3x15/F-SP AL	548030	100	40	150	3	15x20	3x 15x20	5x 5.1 / 2x 5.5x25	50	1
FLH 120x150x3/3x15/F-SP AL	548036	120	40	150	3	15x20	3x 15x20	5x 5.1 / 2x 5.5x25	50	1
FLH 140x150x3/3x15/F-SP AL	548039	140	40	150	3	15x20	3x 15x20	5x 5.1 / 2x 5.5x25	50	1
FLH 160x150x3/3x15/F-SP AL	548042	160	40	150	3	15x20	3x 15x20	5x 5.1 / 2x 5.5x25	50	1
FLH 180x150x3/3x15/F-SP AL	548047	180	40	150	3	15x20	3x 15x20	5x 5.1 / 2x 5.5x25	50	1
FLH 200x150x3/3x15/F-SP AL	548053	200	40	150	3	15x20	3x 15x20	5x 5.1 / 2x 5.5x25	50	1
FLH 220x150x3/3x15/F-SP AL	548059	220	40	150	3	15x20	3x 15x20	5x 5.1 / 2x 5.5x25	25	1
FLH 240x150x3/3x15/F-SP AL	548065	240	40	150	3	15x20	3x 15x20	5x 5.1 / 2x 5.5x25	25	1
FLH 260x150x3/3x15/F-SP AL	548068	260	40	150	3	15x20	3x 15x20	5x 5.1 / 2x 5.5x25	25	1
FLH 280x150x3/3x15/F-SP AL	548074	280	40	150	3	15x20	3x 15x20	5x 5.1 / 2x 5.5x25	25	1
FLH 300x150x3/3x15/F-SP AL	548080	300	40	150	3	15x20	3x 15x20	5x 5.1 / 2x 5.5x25	25	1
FLH 320x150x3/3x15/F-SP AL	548086	320	40	150	3	15x20	3x 15x20	5x 5.1 / 2x 5.5x25	25	1
FLH 40x250x3/3x15/F-SP AL	565059	40	40	250	3	15x20	3x 15x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	50	1
FLH 60x250x3/3x15/F-SP AL	565003	60	40	250	3	15x20	3x 15x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	50	1
FLH 80x250x3/3x15/F-SP AL	565007	80	40	250	3	15x20	3x 15x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	50	1
FLH 100x250x3/3x15/F-SP AL	565011	100	40	250	3	15x20	3x 15x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	50	1
FLH 120x250x3/3x15/F-SP AL	565015	120	40	250	3	15x20	3x 15x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	50	1
FLH 140x250x3/3x15/F-SP AL	565019	140	40	250	3	15x20	3x 15x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	35	1
FLH 160x250x3/3x15/F-SP AL	565023	160	40	250	3	15x20	3x 15x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	35	1
FLH 180x250x3/3x15/F-SP AL	565027	180	40	250	3	15x20	3x 15x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	35	1
FLH 200x250x3/3x15/F-SP AL	565031	200	40	250	3	15x20	3x 15x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	25	1
FLH 220x250x3/3x15/F-SP AL	565035	220	40	250	3	15x20	3x 15x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	25	1
FLH 240x250x3/3x15/F-SP AL	565039	240	40	250	3	15x20	3x 15x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	20	1
FLH 260x250x3/3x15/F-SP AL	565043	260	40	250	3	15x20	3x 15x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	20	1

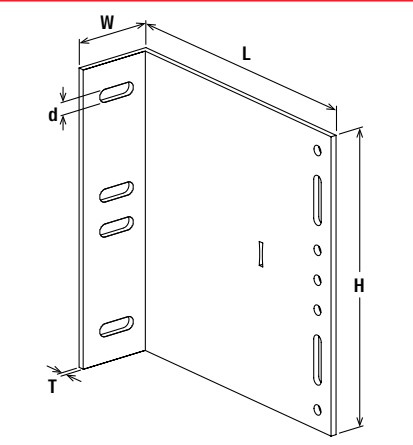


FLH 3x15 F-SP AL

Fixed-/ sliding point wall holders FLH 3x15 F-SP Aluminium



		Length	Width	Height	Thickness	Dimensions	Hole pattern	Hole pattern profile	Content per box	Sales unit
	Item no.	L [mm]	W [mm]	H [mm]	T [mm]	d [mm]	[mm]	[mm]	[pcs.]	[pcs]
Item										
FLH 280x250x3/3x15/F-SP AL	565047	280	40	250	3	15x20	3x 15x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	15	1
FLH 300x250x3/3x15/F-SP AL	565051	300	40	250	3	15x20	3x 15x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	15	1
FLH 320x250x3/3x15/F-SP AL	565055	320	40	250	3	15x20	3x 15x20	8x 5.1 / 2x 5.5x25 / 1x 5.5x45	15	1
FLH 40x300x3/3x15/F-SP AL	565060	40	40	300	3	15x20	3x 15x20	10x 5.1 / 4x 5.5x25	50	1
FLH 60x300x3/3x15/F-SP AL	565004	60	40	300	3	15x20	3x 15x20	10x 5.1 / 4x 5.5x25	50	1
FLH 80x300x3/3x15/F-SP AL	565008	80	40	300	3	15x20	3x 15x20	10x 5.1 / 4x 5.5x25	50	1
FLH 100x300x3/3x15/F-SP AL	565012	100	40	300	3	15x20	3x 15x20	10x 5.1 / 4x 5.5x25	35	1
FLH 120x300x3/3x15/F-SP AL	565016	120	40	300	3	15x20	3x 15x20	10x 5.1 / 4x 5.5x25	35	1
FLH 140x300x3/3x15/F-SP AL	565020	140	40	300	3	15x20	3x 15x20	10x 5.1 / 4x 5.5x25	35	1
FLH 160x300x3/3x15/F-SP AL	565024	160	40	300	3	15x20	3x 15x20	10x 5.1 / 4x 5.5x25	25	1
FLH 180x300x3/3x15/F-SP AL	565028	180	40	300	3	15x20	3x 15x20	10x 5.1 / 4x 5.5x25	25	1
FLH 200x300x3/3x15/F-SP AL	565032	200	40	300	3	15x20	3x 15x20	10x 5.1 / 4x 5.5x25	25	1
FLH 220x300x3/3x15/F-SP AL	565036	220	40	300	3	15x20	3x 15x20	10x 5.1 / 4x 5.5x25	20	1
FLH 240x300x3/3x15/F-SP AL	565040	240	40	300	3	15x20	3x 15x20	10x 5.1 / 4x 5.5x25	20	1
FLH 260x300x3/3x15/F-SP AL	565044	260	40	300	3	15x20	3x 15x20	10x 5.1 / 4x 5.5x25	15	1
FLH 280x300x3/3x15/F-SP AL	565048	280	40	300	3	15x20	3x 15x20	10x 5.1 / 4x 5.5x25	15	1
FLH 300x300x3/3x15/F-SP AL	565052	300	40	300	3	15x20	3x 15x20	10x 5.1 / 4x 5.5x25	15	1
FLH 320x300x3/3x15/F-SP AL	565056	320	40	300	3	15x20	3x 15x20	10x 5.1 / 4x 5.5x25	15	1



FLH 4x6.5 F-SP AL

Fixed-/ sliding point wall holders FLH 4x6.5 F-SP Aluminium



FLH 4x6.5 F-SP AL

		Length	Width	Height	Thickness	Dimensions	Hole pattern	Hole pattern profile	Content per box	Sales unit
	Item no.	L [mm]	W [mm]	H [mm]	T [mm]	d [mm]	[mm]	[mm]	[pcs.]	[pcs]
Item										
FLH 40x150x3/4x6.5/F-SP AL	552223	40	40	150	3	6.5x20	4x 6.5x20	5x 5.1 / 2x 5.5x25	50	1
FLH 60x150x3/4x6.5/F-SP AL	565994	60	40	150	3	6.5x20	4x 6.5x20	5x 5.1 / 2x 5.5x25	50	1
FLH 80x150x3/4x6.5/F-SP AL	565995	80	40	150	3	6.5x20	4x 6.5x20	5x 5.1 / 2x 5.5x25	50	1
FLH 100x150x3/4x6.5/F-SP AL	565996	100	40	150	3	6.5x20	4x 6.5x20	5x 5.1 / 2x 5.5x25	50	1
FLH 120x150x3/4x6.5/F-SP AL	565997	120	40	150	3	6.5x20	4x 6.5x20	5x 5.1 / 2x 5.5x25	50	1
FLH 140x150x3/4x6.5/F-SP AL	565998	140	40	150	3	6.5x20	4x 6.5x20	5x 5.1 / 2x 5.5x25	50	1
FLH 160x150x3/4x6.5/F-SP AL	565999	160	40	150	3	6.5x20	4x 6.5x20	5x 5.1 / 2x 5.5x25	50	1
FLH 180x150x3/4x6.5/F-SP AL	566000	180	40	150	3	6.5x20	4x 6.5x20	5x 5.1 / 2x 5.5x25	50	1
FLH 200x150x3/4x6.5/F-SP AL	566001	200	40	150	3	6.5x20	4x 6.5x20	5x 5.1 / 2x 5.5x25	50	1
FLH 220x150x3/4x6.5/F-SP AL	566002	220	40	150	3	6.5x20	4x 6.5x20	5x 5.1 / 2x 5.5x25	25	1
FLH 240x150x3/4x6.5/F-SP AL	566003	240	40	150	3	6.5x20	4x 6.5x20	5x 5.1 / 2x 5.5x25	25	1
FLH 260x150x3/4x6.5/F-SP AL	566004	260	40	150	3	6.5x20	4x 6.5x20	5x 5.1 / 2x 5.5x25	25	1
FLH 280x150x3/4x6.5/F-SP AL	566005	280	40	150	3	6.5x20	4x 6.5x20	5x 5.1 / 2x 5.5x25	25	1
FLH 300x150x3/4x6.5/F-SP AL	566006	300	40	150	3	6.5x20	4x 6.5x20	5x 5.1 / 2x 5.5x25	25	1
FLH 320x150x3/4x6.5/F-SP AL	566007	320	40	150	3	6.5x20	4x 6.5x20	5x 5.1 / 2x 5.5x25	25	1

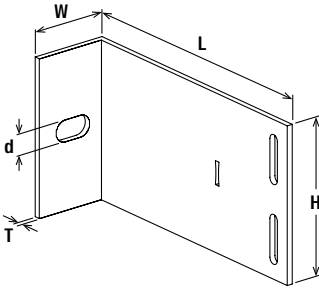
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FLH 1x6.5 SP AL

Sliding point wall holders FLH 1x6.5 SP Aluminium



FLH SP AL										
Item	Item no.	Length	Width	Height	Thickness	Dimensions	Hole pattern	Hole pattern profile	Content per box	Sales unit
		L [mm]	W [mm]	H [mm]	T [mm]	d [mm]	[mm]	[mm]	[pcs.]	[pcs]
FLH 40x80x3/1x6.5/SP AL	559267	40	40	80	3	6.5x20	1x 6.5x20	2x 5.5x25	100	1
FLH 60x80x3/1x6.5/SP AL	559268	60	40	80	3	6.5x20	1x 6.5x20	2x 5.5x25	100	1
FLH 80x80x3/1x6.5/SP AL	559269	80	40	80	3	6.5x20	1x 6.5x20	2x 5.5x25	100	1
FLH 100x80x3/1x6.5/SP AL	559270	100	40	80	3	6.5x20	1x 6.5x20	2x 5.5x25	100	1
FLH 120x80x3/1x6.5/SP AL	559271	120	40	80	3	6.5x20	1x 6.5x20	2x 5.5x25	100	1
FLH 140x80x3/1x6.5/SP AL	559272	140	40	80	3	6.5x20	1x 6.5x20	2x 5.5x25	100	1
FLH 160x80x3/1x6.5/SP AL	559273	160	40	80	3	6.5x20	1x 6.5x20	2x 5.5x25	100	1
FLH 180x80x3/1x6.5/SP AL	559274	180	40	80	3	6.5x20	1x 6.5x20	2x 5.5x25	100	1
FLH 200x80x3/1x6.5/SP AL	559275	200	40	80	3	6.5x20	1x 6.5x20	2x 5.5x25	100	1
FLH 220x80x3/1x6.5/SP AL	559276	220	40	80	3	6.5x20	1x 6.5x20	2x 5.5x25	50	1
FLH 240x80x3/1x6.5/SP AL	559277	240	40	80	3	6.5x20	1x 6.5x20	2x 5.5x25	50	1
FLH 260x80x3/1x6.5/SP AL	559278	260	40	80	3	6.5x20	1x 6.5x20	2x 5.5x25	50	1
FLH 280x80x3/1x6.5/SP AL	559279	280	40	80	3	6.5x20	1x 6.5x20	2x 5.5x25	50	1
FLH 300x80x3/1x6.5/SP AL	559280	300	40	80	3	6.5x20	1x 6.5x20	2x 5.5x25	50	1
FLH 320x80x3/1x6.5/SP AL	559281	320	40	80	3	6.5x20	1x 6.5x20	2x 5.5x25	50	1



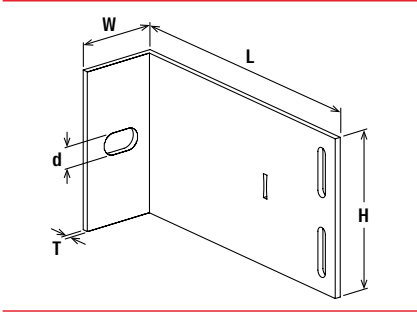
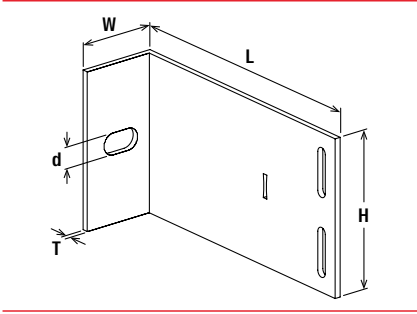
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FLH 1x9 SP AL

Sliding point wall holders FLH 1x9 SP Aluminium



FLH SP AL										
Item	Item no.	Length	Width	Height	Thickness	Dimensions	Hole pattern	Hole pattern profile	Content per box	Sales unit
		L [mm]	W [mm]	H [mm]	T [mm]	d [mm]	[mm]	[mm]	[pcs.]	[pcs]
FLH 40x80x3/1x9/SP AL	559192	40	40	80	3	9x20	1x 9x20	2x 5.5x25	100	1
FLH 60x80x3/1x9/SP AL	559193	60	40	80	3	9x20	1x 9x20	2x 5.5x25	100	1
FLH 80x80x3/1x9/SP AL	559194	80	40	80	3	9x20	1x 9x20	2x 5.5x25	100	1
FLH 100x80x3/1x9/SP AL	559195	100	40	80	3	9x20	1x 9x20	2x 5.5x25	100	1
FLH 120x80x3/1x9/SP AL	559196	120	40	80	3	9x20	1x 9x20	2x 5.5x25	100	1
FLH 140x80x3/1x9/SP AL	559197	140	40	80	3	9x20	1x 9x20	2x 5.5x25	100	1
FLH 160x80x3/1x9/SP AL	559198	160	40	80	3	9x20	1x 9x20	2x 5.5x25	100	1
FLH 180x80x3/1x9/SP AL	559199	180	40	80	3	9x20	1x 9x20	2x 5.5x25	100	1
FLH 200x80x3/1x9/SP AL	559200	200	40	80	3	9x20	1x 9x20	2x 5.5x25	100	1
FLH 220x80x3/1x9/SP AL	559201	220	40	80	3	9x20	1x 9x20	2x 5.5x25	50	1
FLH 240x80x3/1x9/SP AL	559202	240	40	80	3	9x20	1x 9x20	2x 5.5x25	50	1
FLH 260x80x3/1x9/SP AL	559203	260	40	80	3	9x20	1x 9x20	2x 5.5x25	50	1
FLH 280x80x3/1x9/SP AL	559204	280	40	80	3	9x20	1x 9x20	2x 5.5x25	50	1
FLH 300x80x3/1x9/SP AL	559205	300	40	80	3	9x20	1x 9x20	2x 5.5x25	50	1
FLH 320x80x3/1x9/SP AL	559206	320	40	80	3	9x20	1x 9x20	2x 5.5x25	50	1



3

FLH 1x11 SP AL

Sliding point wall holders FLH 1x11 SP Aluminium



FLH SP AL										
Item	Item no.	Length	Width	Height	Thickness	Dimensions	Hole pattern	Hole pattern profile	Content per box	Sales unit
		L [mm]	W [mm]	H [mm]	T [mm]	d [mm]	[mm]	[mm]	[pcs.]	[pcs]
FLH 40x80x3/1x11/SP AL	548060	40	40	80	3	11x20	1x 11x20	2x 5.5x25	100	1
FLH 60x80x3/1x11/SP AL	547179	60	40	80	3	11x20	1x 11x20	2x 5.5x25	100	1
FLH 80x80x3/1x11/SP AL	548069	80	40	80	3	11x20	1x 11x20	2x 5.5x25	100	1
FLH 100x80x3/1x11/SP AL	548075	100	40	80	3	11x20	1x 11x20	2x 5.5x25	100	1
FLH 120x80x3/1x11/SP AL	548081	120	40	80	3	11x20	1x 11x20	2x 5.5x25	100	1
FLH 140x80x3/1x11/SP AL	548087	140	40	80	3	11x20	1x 11x20	2x 5.5x25	100	1
FLH 160x80x3/1x11/SP AL	548105	160	40	80	3	11x20	1x 11x20	2x 5.5x25	100	1
FLH 180x80x3/1x11/SP AL	548108	180	40	80	3	11x20	1x 11x20	2x 5.5x25	100	1
FLH 200x80x3/1x11/SP AL	548111	200	40	80	3	11x20	1x 11x20	2x 5.5x25	100	1
FLH 220x80x3/1x11/SP AL	548114	220	40	80	3	11x20	1x 11x20	2x 5.5x25	50	1
FLH 240x80x3/1x11/SP AL	548117	240	40	80	3	11x20	1x 11x20	2x 5.5x25	50	1
FLH 260x80x3/1x11/SP AL	548120	260	40	80	3	11x20	1x 11x20	2x 5.5x25	50	1
FLH 280x80x3/1x11/SP AL	548123	280	40	80	3	11x20	1x 11x20	2x 5.5x25	50	1
FLH 300x80x3/1x11/SP AL	548126	300	40	80	3	11x20	1x 11x20	2x 5.5x25	50	1
FLH 320x80x3/1x11/SP AL	548129	320	40	80	3	11x20	1x 11x20	2x 5.5x25	50	1

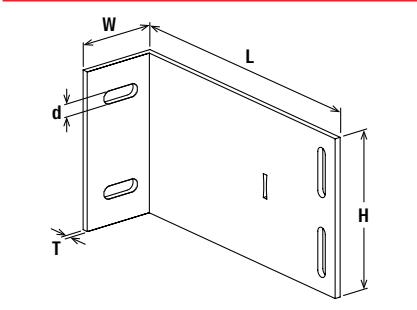
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FLH 1x15 SP AL

Sliding point wall holders FLH 1x15 SP Aluminium



FLH SP AL										
Item	Item no.	Length	Width	Height	Thickness	Dimensions	Hole pattern	Hole pattern profile	Content per box	Sales unit
		L [mm]	W [mm]	H [mm]	T [mm]	d [mm]	[mm]	[mm]	[pcs.]	[pcs]
FLH 40x80x3/1x15/SP AL	548090	40	40	80	3	15x20	1x 15x20	2x 5.5x25	100	1
FLH 60x80x3/1x15/SP AL	548016	60	40	80	3	15x20	1x 15x20	2x 5.5x25	100	1
FLH 80x80x3/1x15/SP AL	548022	80	40	80	3	15x20	1x 15x20	2x 5.5x25	100	1
FLH 100x80x3/1x15/SP AL	548028	100	40	80	3	15x20	1x 15x20	2x 5.5x25	100	1
FLH 120x80x3/1x15/SP AL	548034	120	40	80	3	15x20	1x 15x20	2x 5.5x25	100	1
FLH 140x80x3/1x15/SP AL	548037	140	40	80	3	15x20	1x 15x20	2x 5.5x25	100	1
FLH 160x80x3/1x15/SP AL	548040	160	40	80	3	15x20	1x 15x20	2x 5.5x25	100	1
FLH 180x80x3/1x15/SP AL	548045	180	40	80	3	15x20	1x 15x20	2x 5.5x25	100	1
FLH 200x80x3/1x15/SP AL	548051	200	40	80	3	15x20	1x 15x20	2x 5.5x25	100	1
FLH 220x80x3/1x15/SP AL	548057	220	40	80	3	15x20	1x 15x20	2x 5.5x25	50	1
FLH 240x80x3/1x15/SP AL	548063	240	40	80	3	15x20	1x 15x20	2x 5.5x25	50	1
FLH 260x80x3/1x15/SP AL	548066	260	40	80	3	15x20	1x 15x20	2x 5.5x25	50	1
FLH 280x80x3/1x15/SP AL	548072	280	40	80	3	15x20	1x 15x20	2x 5.5x25	50	1
FLH 300x80x3/1x15/SP AL	548078	300	40	80	3	15x20	1x 15x20	2x 5.5x25	50	1
FLH 320x80x3/1x15/SP AL	548084	320	40	80	3	15x20	1x 15x20	2x 5.5x25	50	1



3

FLH 2x6.5 SP AL

Sliding point wall holders FLH 2x6.5 SP Aluminium



FLH 2x6.5 SP AL

Item	Item no.	Length	Width	Height	Thickness	Dimensions	Hole pattern	Hole pattern profile	Content per box	Sales unit
		L [mm]	W [mm]	H [mm]	T [mm]	d [mm]	[mm]	[mm]	[pcs.]	[pcs]
FLH 40x80x3/1x6.5/SP AL	552238	40	40	80	3	6.5x20	2x 6.5x20	2x 5.5x25	100	1
FLH 60x80x3/1x6.5/SP AL	566022	60	40	80	3	6.5x20	2x 6.5x20	2x 5.5x25	100	1
FLH 80x80x3/1x6.5/SP AL	566023	80	40	80	3	6.5x20	2x 6.5x20	2x 5.5x25	100	1
FLH 100x80x3/1x6.5/SP AL	566024	100	40	80	3	6.5x20	2x 6.5x20	2x 5.5x25	100	1
FLH 120x80x3/1x6.5/SP AL	566025	120	40	80	3	6.5x20	2x 6.5x20	2x 5.5x25	100	1
FLH 140x80x3/1x6.5/SP AL	566026	140	40	80	3	6.5x20	2x 6.5x20	2x 5.5x25	100	1
FLH 160x80x3/1x6.5/SP AL	566027	160	40	80	3	6.5x20	2x 6.5x20	2x 5.5x25	100	1
FLH 180x80x3/1x6.5/SP AL	566028	180	40	80	3	6.5x20	2x 6.5x20	2x 5.5x25	100	1
FLH 200x80x3/1x6.5/SP AL	566029	200	40	80	3	6.5x20	2x 6.5x20	2x 5.5x25	100	1
FLH 220x80x3/1x6.5/SP AL	566030	220	40	80	3	6.5x20	2x 6.5x20	2x 5.5x25	50	1
FLH 240x80x3/1x6.5/SP AL	566031	240	40	80	3	6.5x20	2x 6.5x20	2x 5.5x25	50	1
FLH 260x80x3/1x6.5/SP AL	566032	260	40	80	3	6.5x20	2x 6.5x20	2x 5.5x25	50	1
FLH 280x80x3/1x6.5/SP AL	566033	280	40	80	3	6.5x20	2x 6.5x20	2x 5.5x25	50	1
FLH 300x80x3/1x6.5/SP AL	566034	300	40	80	3	6.5x20	2x 6.5x20	2x 5.5x25	50	1
FLH 320x80x3/1x6.5/SP AL	566035	320	40	80	3	6.5x20	2x 6.5x20	2x 5.5x25	50	1

Wall holders FLH R stainless steel

Thermally optimised L-wall holder made of stainless steel for ventilated rainscreen façades.



System illustration FLH-R with ATK100 + 103 and FZP II in natural stone



Façade cross-section FLH R with ATK100 and PV-clip system on framed PV modules

3

Applications

- As an angular L-shaped wall holder made of stainless steel for the vertical subframe system ATK 100
- For load transfer into the building substrate of subframe systems in ventilated rainscreen façades

Advantages

- Due to optimal building physics characteristics no thermostops necessary.
- The combination of wall holder and vertical profile ensures optimum compensation of tolerances in the building substrate.
- Compatible with all common fixings and connectors (e.g. fischer frame fixings and steel anchors).
- The predesigned hole pattern allows for quick and easy installation.
- Flexible adjustment of the vertical profile possible due to innovative helping hand clip on the wall holder.

Properties

- Stainless steel

Functioning

- Vertical load transfer from the subframe system into the building substrate
- Absorption of loads through the connection to the vertical profiles
- Compensation of construction tolerances together with the vertical profiles
- Easy installation with common connection and fixing elements

Building materials

- All building substrates

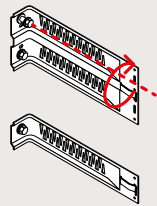
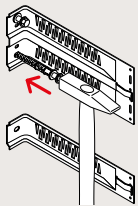
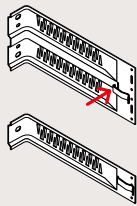
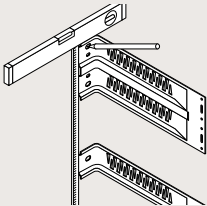
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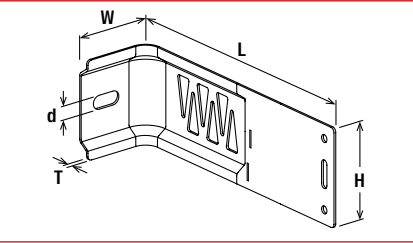
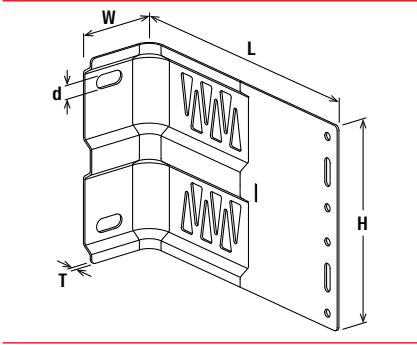


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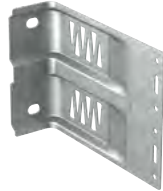
Installation FLH R





FLH 147 F-SP R

Fixed-/ sliding point wall holders FLH 147 F-SP stainless steel



FLH 147 F-SP R

Item	Item no.	Ap- pro- val ETA	Length L [mm]	Width W [mm]	Height H [mm]	Thickness T [mm]	Dimensions d [mm]	Hole pattern [mm]	Hole pattern profile [mm]	Sales unit [pcs]
FLH 120x147x1.5/2x10.5/F-SP R	562788	●	120	60	147	1.5	10.5x15	2x 10.5x15	4x 5.5 / 2x 5.5x20	20
FLH 140x147x1.5/2x10.5/F-SP R	562789	●	140	60	147	1.5	10.5x15	2x 10.5x15	4x 5.5 / 2x 5.5x20	20
FLH 160x147x1.5/2x10.5/F-SP R	562790	●	160	60	147	1.5	10.5x15	2x 10.5x15	4x 5.5 / 2x 5.5x20	20
FLH 180x147x1.5/2x10.5/F-SP R	562791	●	180	60	147	1.5	10.5x15	2x 10.5x15	4x 5.5 / 2x 5.5x20	20
FLH 200x147x1.5/2x10.5/F-SP R	562792	●	200	60	147	1.5	10.5x15	2x 10.5x15	4x 5.5 / 2x 5.5x20	20
FLH 220x147x1.5/2x10.5/F-SP R	562793	●	220	60	147	1.5	10.5x15	2x 10.5x15	4x 5.5 / 2x 5.5x20	20
FLH 240x147x1.5/2x10.5/F-SP R	562794	●	240	60	147	1.5	10.5x15	2x 10.5x15	4x 5.5 / 2x 5.5x20	20
FLH 260x147x1.5/2x10.5/F-SP R	562795	●	260	60	147	1.5	10.5x15	2x 10.5x15	4x 5.5 / 2x 5.5x20	20
FLH 280x147x1.5/2x10.5/F-SP R	562796	●	280	60	147	1.5	10.5x15	2x 10.5x15	4x 5.5 / 2x 5.5x20	20
FLH 300x147x1.5/2x10.5/F-SP R	562797	●	300	60	147	1.5	10.5x15	2x 10.5x15	4x 5.5 / 2x 5.5x20	20
FLH 320x147x1.5/2x10.5/F-SP R	562798	●	320	60	147	1.5	10.5x15	2x 10.5x15	4x 5.5 / 2x 5.5x20	20
FLH 340x147x1.5/2x10.5/F-SP R	562799	●	340	60	147	1.5	10.5x15	2x 10.5x15	4x 5.5 / 2x 5.5x20	20

FLH 70 F-SP R

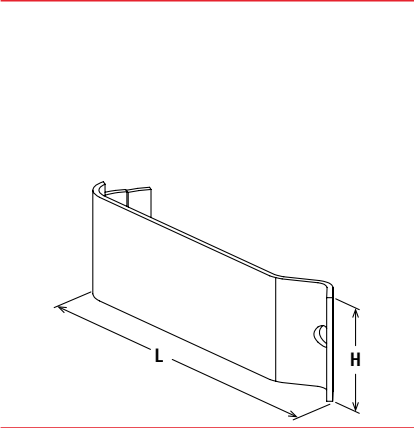
Fixed-/ sliding point wall holders FLH 70 F-SP stainless steel



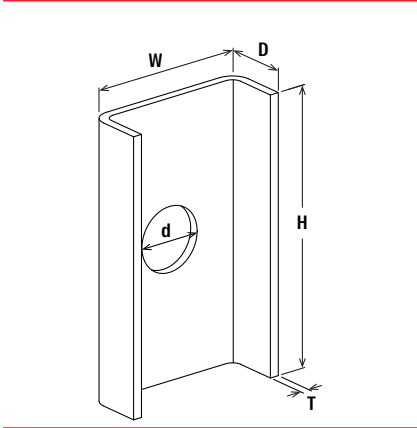
FLH 70 F-SP R

Item	Item no.	Ap- pro- val ETA	Length L [mm]	Width W [mm]	Height H [mm]	Thickness T [mm]	Dimensions d [mm]	Hole pattern [mm]	Hole pattern profile [mm]	Sales unit [pcs]
FLH 120x70x1.5/1x10.5/F-SP R	562800	●	120	60	70	1.5	10.5x15	1x 10.5x15	2x 5.5 / 1x 5.5x20	40
FLH 140x70x1.5/1x10.5/F-SP R	562801	●	140	60	70	1.5	10.5x15	1x 10.5x15	2x 5.5 / 1x 5.5x20	40
FLH 160x70x1.5/1x10.5/F-SP R	562802	●	160	60	70	1.5	10.5x15	1x 10.5x15	2x 5.5 / 1x 5.5x20	40
FLH 180x70x1.5/1x10.5/F-SP R	562803	●	180	60	70	1.5	10.5x15	1x 10.5x15	2x 5.5 / 1x 5.5x20	40
FLH 200x70x1.5/1x10.5/F-SP R	562804	●	200	60	70	1.5	10.5x15	1x 10.5x15	2x 5.5 / 1x 5.5x20	40
FLH 220x70x1.5/1x10.5/F-SP R	562805	●	220	60	70	1.5	10.5x15	1x 10.5x15	2x 5.5 / 1x 5.5x20	40
FLH 240x70x1.5/1x10.5/F-SP R	562806	●	240	60	70	1.5	10.5x15	1x 10.5x15	2x 5.5 / 1x 5.5x20	40
FLH 260x70x1.5/1x10.5/F-SP R	562807	●	260	60	70	1.5	10.5x15	1x 10.5x15	2x 5.5 / 1x 5.5x20	40
FLH 280x70x1.5/1x10.5/F-SP R	562808	●	280	60	70	1.5	10.5x15	1x 10.5x15	2x 5.5 / 1x 5.5x20	40
FLH 300x70x1.5/1x10.5/F-SP R	562809	●	300	60	70	1.5	10.5x15	1x 10.5x15	2x 5.5 / 1x 5.5x20	40
FLH 320x70x1.5/1x10.5/F-SP R	562810	●	320	60	70	1.5	10.5x15	1x 10.5x15	2x 5.5 / 1x 5.5x20	40
FLH 340x70x1.5/1x10.5/F-SP R	562811	●	340	60	70	1.5	10.5x15	1x 10.5x15	2x 5.5 / 1x 5.5x20	40

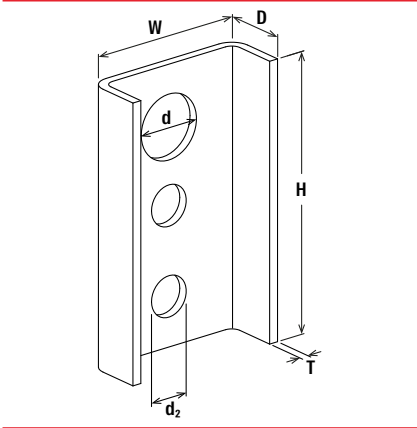
3



Helping hand clip



Pressure disc 10.5 FLH R



Pressure disc 10.5/2x6.6 FLH R

Accessories FLH R

Accessories FLH R



Helping hand clip Pressure disc 10.5 FLH R Pressure disc 10.5/2x6.6 FLH R

		Length L [mm]	Height H [mm]	Width W [mm]	Thickness T [mm]	Dimensions d [mm]	Dimensions d ₂	Hole pattern [mm]	Contents	Sales unit
Item	Item no.									[pcs]
Helping hand clip	547170	50	15	–	–	–	–	–	100 x Clips	1
Pressure disc 10.5 FLH-R	562813	45	10	27.5	1.5	10.5	–	1x 10.5		40
Pressure disc 10.5 / 2 x 6.6 FLH-R	562812	45	10	27.5	1.5	10.5	6.6	1x 10.5 / 2x 6.6		40

Wall holders ZeLa

Thermally decoupled wall holder for ventilated rainscreen façades.



System illustration ZeLa with ATK100 and 103 and FZP II in HPL

Applications

- As thermally decoupled wall holder made of aluminium or stainless steel for the vertical subframe system ATK100
- For centric load transfer into the building substrate of subframe systems in ventilated rainscreen façades

Advantages

- The optimised geometry with stainless steel and aluminium swords enables improved load transfer.
- Due to the centric load transfer, the loads are transferred evenly.
- The passive house certification guarantees sustainable and energy-efficient fixing.
- The exchangeable swords for different lengths, together with the vertical profiles, ensure optimum compensation of tolerances in the building substrate.
- The plug-in connection of the individual elements ensures quick and flexible assembly.
- Usable as fixed-point holder or sliding-point holder by adding or removing the ZeLa fixed-point-Clip.

Properties

- Console and sword: Aluminium (e. g. EN AW 6063, 6061) or stainless steel
- Coupling: Plastic

Functioning

- Vertical load transfer from the subframe system into the building substrate
- Centric load transfer
- Absorption of loads through the connection to the vertical profiles
- Compensation of construction tolerances together with the vertical profiles
- Easy installation with common connection and fixing elements
- Better thermal separation due to polyamide couplings

Building materials

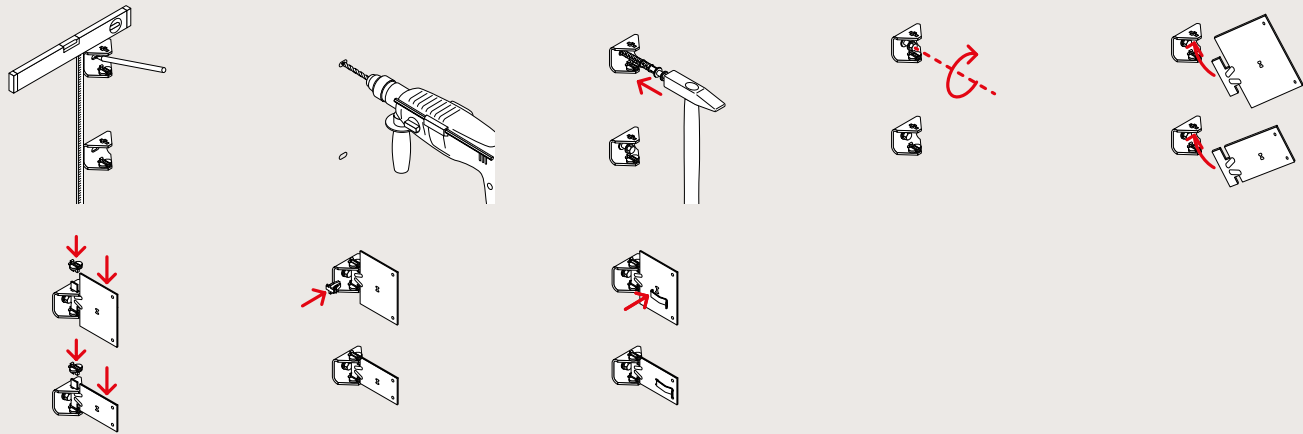
- All building substrates

Certificates / Features



Installation ZeLa

3



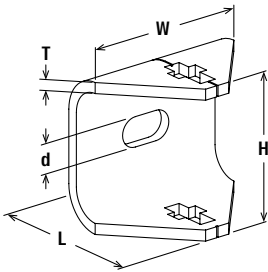
ZeLa Consoles FZC AL

ZeLa consoles FZC AL



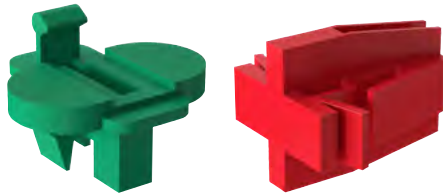
FZC

	Item no.	Length L [mm]	Width W [mm]	Height H [mm]	Thickness T [mm]	Dimensions d [mm]	Contents	Sales unit [pcs]
Item								
FZC 1x6.6 AL	559190	42	60	50	4	6.6x20	100 x ZeLa console, 100 x ZeLa coupling	1
FZC 1x11 AL	565191	42	60	50	4	11x20	100 x ZeLa console, 100 x ZeLa coupling	1
FZC 1x15 AL	565192	42	60	50	4	15x20	100 x ZeLa console, 100 x ZeLa coupling	1



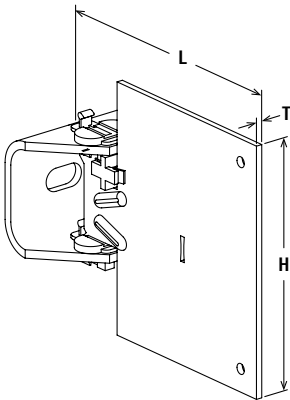
ZeLa accessories

ZeLa accessories



	Item no.	Contents	Sales unit [pcs]
Item			
ZeLa Coupling	565193	100 x Couplings	1
ZeLa fixed-point-Clip	552221	100 x Clips	1

3



ZeLa sword FZS 120 F-SP AL

Fixed-/ sliding point ZeLa sword FZS 120 aluminium



FZS 120

ZeLa Set FZS 120 F-SP + FZC
+ coupling + fixed-point-clip
(optional)

	Item no.	Length L [mm]	Height H [mm]	Thickness T [mm]	Hole pattern profile [mm]	Content per box [pcs.]	Sales unit [pcs]
Item							
FZS 100x120x3/F-SP AL	565150	100	120	3	2x 5.1	50	1
FZS 120x120x3/F-SP AL	565151	120	120	3	2x 5.1	50	1
FZS 140x120x3/F-SP AL	565153	140	120	3	2x 5.1	50	1
FZS 160x120x3/F-SP AL	565155	160	120	3	2x 5.1	50	1
FZS 180x120x3/F-SP AL	565157	180	120	3	2x 5.1	50	1
FZS 200x120x3/F-SP AL	565159	200	120	3	2x 5.1	50	1
FZS 220x120x3/F-SP AL	565161	220	120	3	2x 5.1	50	1
FZS 240x120x3/F-SP AL	565163	240	120	3	2x 5.1	50	1
FZS 260x120x3/F-SP AL	565165	260	120	3	2x 5.1	50	1
FZS 280x120x3/F-SP AL	565167	280	120	3	2x 5.1	50	1
FZS 300x120x3/F-SP AL	565169	300	120	3	2x 5.1	50	1
FZS 320x120x3/F-SP AL	565927	320	120	3	2x 5.1	50	1

ZeLa sword FZS 120 F-SP R

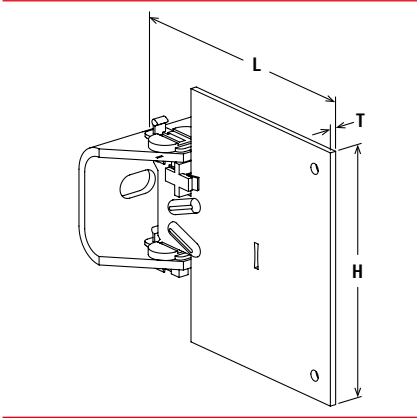
Fixed-/ sliding point ZeLa sword FZS 120 stainless steel



FZS 120

ZeLa Set FZS 120 F-SP + FZC
+ coupling + fixed-point-clip
(optional)

		Length L [mm]	Height H [mm]	Thickness T [mm]	Hole pattern profile [mm]	Content per box [pcs.]	Sales unit [pcs]
Item	Item no.						
FZS 120x120x3/F-SP R	565152	120	120	3	2x 5.1	25	1
FZS 140x120x3/F-SP R	565154	140	120	3	2x 5.1	25	1
FZS 160x120x3/F-SP R	565156	160	120	3	2x 5.1	25	1
FZS 180x120x3/F-SP R	565158	180	120	3	2x 5.1	25	1
FZS 200x120x3/F-SP R	565160	200	120	3	2x 5.1	25	1
FZS 220x120x3/F-SP R	565162	220	120	3	2x 5.1	25	1
FZS 240x120x3/F-SP R	565164	240	120	3	2x 5.1	25	1
FZS 260x120x3/F-SP R	565166	260	120	3	2x 5.1	20	1
FZS 280x120x3/F-SP R	565168	280	120	3	2x 5.1	20	1
FZS 300x120x3/F-SP R	565170	300	120	3	2x 5.1	10	1
FZS 320x120x3/F-SP R	565929	320	120	3	2x 5.1	10	1



ZeLa sword FZS 60 F-SP AL

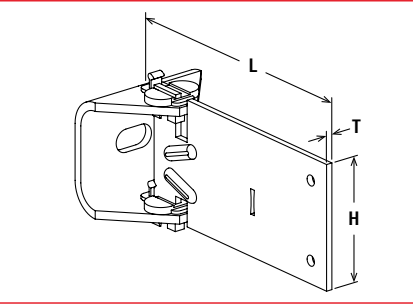
Fixed-/ sliding point ZeLa sword FZS 60 aluminium

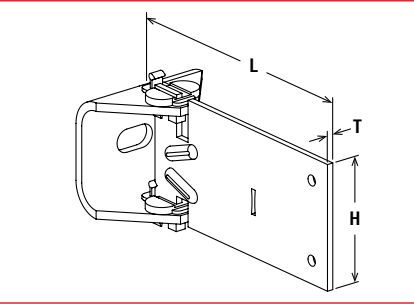


FZS 60

ZeLa Set FZS 60 F-SP + FZC
+ coupling

		Length L [mm]	Height H [mm]	Thickness T [mm]	Hole pattern profile [mm]	Content per box [pcs.]	Sales unit [pcs]
Item	Item no.						
FZS 100x60x3/F-SP AL	565171	100	60	3	2x 5.1	50	1
FZS 120x60x3/F-SP AL	565172	120	60	3	2x 5.1	50	1
FZS 140x60x3/F-SP AL	565174	140	60	3	2x 5.1	50	1
FZS 160x60x3/F-SP AL	565175	160	60	3	2x 5.1	50	1
FZS 180x60x3/F-SP AL	565177	180	60	3	2x 5.1	50	1
FZS 200x60x3/F-SP AL	565179	200	60	3	2x 5.1	50	1
FZS 220x60x3/F-SP AL	565181	220	60	3	2x 5.1	50	1
FZS 240x60x3/F-SP AL	565183	240	60	3	2x 5.1	50	1
FZS 260x60x3/F-SP AL	565185	260	60	3	2x 5.1	50	1
FZS 280x60x3/F-SP AL	565187	280	60	3	2x 5.1	50	1
FZS 300x60x3/F-SP AL	565189	300	60	3	2x 5.1	50	1
FZS 320x60x3/F-SP AL	565928	320	60	3	2x 5.1	50	1





3

ZeLa sword FZS 60 F-SP R

Fixed-/ sliding point ZeLa sword FZS 60 stainless steel



		Length L [mm]	Height H [mm]	Thickness T [mm]	Hole pattern profile [mm]	Content per box [pcs.]	Sales unit [pcs]
Item	Item no.						
FZS 120x60x3/F-SP R	565173	120	60	3	2x 5.1	50	1
FZS 140x60x3/F-SP R	565930	140	60	3	2x 5.1	50	1
FZS 160x60x3/F-SP R	565176	160	60	3	2x 5.1	50	1
FZS 180x60x3/F-SP R	565178	180	60	3	2x 5.1	50	1
FZS 200x60x3/F-SP R	565180	200	60	3	2x 5.1	25	1
FZS 220x60x3/F-SP R	565182	220	60	3	2x 5.1	25	1
FZS 240x60x3/F-SP R	565184	240	60	3	2x 5.1	25	1
FZS 260x60x3/F-SP R	565186	260	60	3	2x 5.1	25	1
FZS 280x60x3/F-SP R	565188	280	60	3	2x 5.1	25	1
FZS 300x60x3/F-SP R	565190	300	60	3	2x 5.1	25	1
FZS 320x60x3/F-SP R	565931	320	60	3	2x 5.1	25	1

Wall holders rod system FRH ATK601

The ATK601 wall holder set for push-through installation as a rod system.



System illustration FRH ATK601 with ATK100 and rivet fixing in ACM

Applications

- As a wall holder set for renovating existing façades
- Consisting of a frame fixing anchor, as well as an attachment part and a T-piece
- For load transfer into the building substrate of subframe systems in ventilated rainscreen façades

Advantages

- Enables retrofitting of ventilated rainscreen façades.
- By means of the push-through and stand-off installation, the wall holder can also be used in already insulated substrates.
- Applicable for horizontal and vertical systems.
- The passive house certification guarantees sustainable and energy-efficient fixing.
- Different load levels are applicable through multiple anchorage depths.

Properties

- Anchor: polyamid
- Screw: zinc-plated steel
- Attachment parts: Aluminium (e.g. EN AW 6063)

Functioning

- Vertical load transfer from the subframe system into the building substrate
- Renovation of existing façades
- Absorption of loads through the connection to the vertical profiles

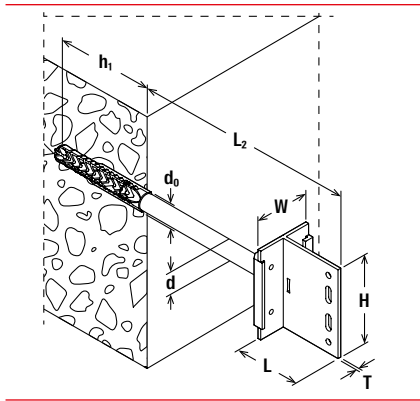
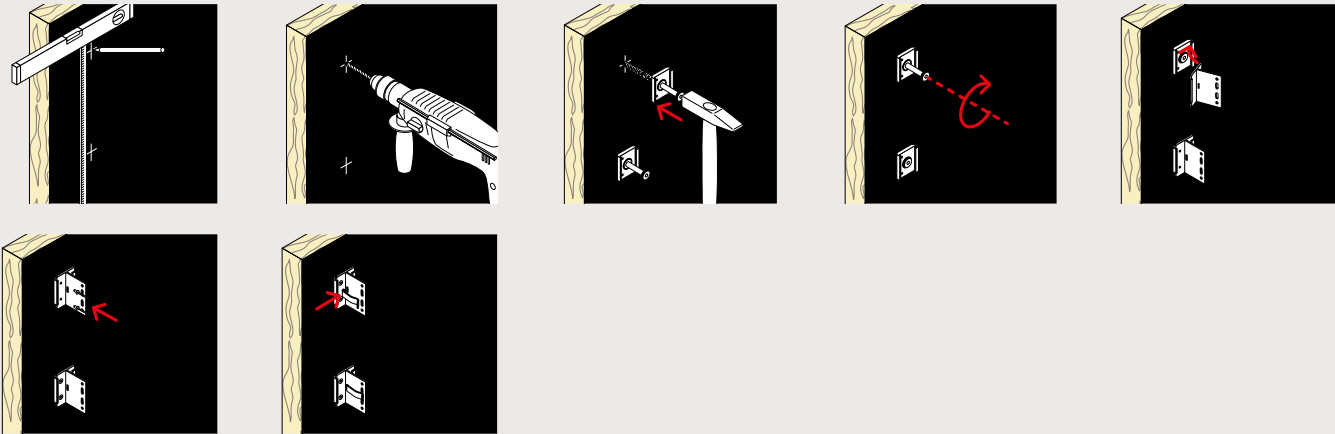
Building materials

- Vertically perforated brick
- Aerated concrete
- Hollow blocks made from lightweight concrete
- Perforated sand-lime brick
- Solid block made from lightweight and normal weight concrete
- Solid brick
- Solid sand-lime brick
- Concrete ≥ C12/15

Certificates / Features



Installation FRH - ATK601



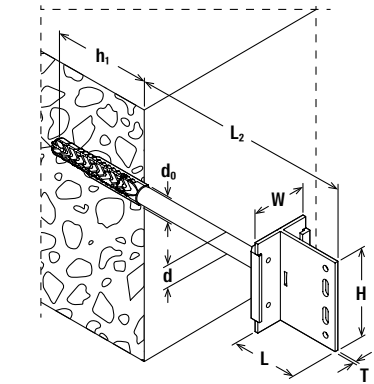
Wall holders FRH F-SP AL, ATK601 set

Fixed-/sliding point wall holder sets FRH F-SP aluminium, ATK601 with zinc-plated screw



FRH F-SP Set, ATK601

		Length	Width	Height	Thick- ness	Hole pattern	Hole pattern profile	Drill diame- ter	Min. drill hole depth	Min. em- bed- ment depth	Length	Usable length at ancho- rage depth 70 mm	Usable length at ancho- rage depth 90 mm	Contents	Sales unit
	Item no.	L [mm]	W [mm]	H [mm]	T [mm]	[mm]	[mm]	d ₀ [mm]	h ₁ [mm]	h ₁ [mm]	L ₂ [mm]	t _{fix} [mm]	t _{fix} [mm]		[pcs]
Item															
FRH Set 14/80ZP + T60x60 F-SP AL, ATK601	566078	60	50	60	3	4x 4.1	2x 5.1 / 2x 5.5x15	14	95	70	70	2	–	50 x SXRL 14 T gvz, 50 x base plate, 50 x T-console, 100 x rivet	1
FRH Set 14/100ZP + T60x60 F-SP AL, ATK601	566079	60	50	60	3	4x 4.1	2x 5.1 / 2x 5.5x15	14	115	70	90 / 70	22	2	50 x SXRL 14 T gvz, 50 x base plate, 50 x T-console, 100 x rivet	1
FRH Set 14/120ZP + T60x60 F-SP AL, ATK601	566080	60	50	60	3	4x 4.1	2x 5.1 / 2x 5.5x15	14	135	70	110 / 90	42	22	50 x SXRL 14 T gvz, 50 x base plate, 50 x T-console, 100 x rivet	1
FRH Set 14/140ZP + T60x60 F-SP AL, ATK601	566081	60	50	60	3	4x 4.1	2x 5.1 / 2x 5.5x15	14	155	70	130 / 110	62	42	50 x SXRL 14 T gvz, 50 x base plate, 50 x T-console, 100 x rivet	1



Wall holders FRH F-SP AL, ATK601 set

Fixed-/sliding point wall holder sets FRH F-SP aluminium, ATK601 with zinc-plated screw



FRH F-SP Set, ATK601

		Length	Width	Height	Thick- ness	Hole pattern	Hole pattern profile	Drill diame- ter	Min. drill hole depth	Min. em- bed- ment depth	Length	Usable length at ancho- rage depth 70 mm	Usable length at ancho- rage depth 90 mm	Contents	Sales unit
	Item no.	L [mm]	W [mm]	H [mm]	T [mm]	[mm]	[mm]	d ₀ [mm]	h ₁ [mm]	h ₁ [mm]	L ₂ [mm]	t _{fix} [mm]	t _{fix} [mm]		[pcs]
Item															
FRH Set 14/160ZP + T60x60 F-SP AL, ATK601	566082	60	50	60	3	4x 4.1	2x 5.1 / 2x 5.5x15	14	175	70	150 / 130	82	62	50 x SXRL 14 T gvz, 50 x base plate, 50 x T-console, 100 x rivet	1
FRH Set 14/180ZP + T60x60 F-SP AL, ATK601	566083	60	50	60	3	4x 4.1	2x 5.1 / 2x 5.5x15	14	195	70	170 / 150	102	82	50 x SXRL 14 T gvz, 50 x base plate, 50 x T-console, 100 x rivet	1
FRH Set 14/200ZP + T60x60 F-SP AL, ATK601	566084	60	50	60	3	4x 4.1	2x 5.1 / 2x 5.5x15	14	215	70	190 / 170	122	102	50 x SXRL 14 T gvz, 50 x base plate, 50 x T-console, 100 x rivet	1
FRH Set 14/230ZP + T60x60 F-SP AL, ATK601	566085	60	50	60	3	4x 4.1	2x 5.1 / 2x 5.5x15	14	245	70	220 / 200	152	132	50 x SXRL 14 T gvz, 50 x base plate, 50 x T-console, 100 x rivet	1
FRH Set 14/260ZP + T60x60 F-SP AL, ATK601	566086	60	50	60	3	4x 4.1	2x 5.1 / 2x 5.5x15	14	275	70	250 / 230	182	162	50 x SXRL 14 T gvz, 50 x base plate, 50 x T-console, 100 x rivet	1
FRH Set 14/300ZP + T60x60 F-SP AL, ATK601	566087	60	50	60	3	4x 4.1	2x 5.1 / 2x 5.5x15	14	315	70	290 / 270	222	202	40 x SXRL 14 T gvz, 40 x base plate, 40 x T-console, 80 x rivet	1
FRH Set 14/330ZP + T60x60 F-SP AL, ATK601	566088	60	50	60	3	4x 4.1	2x 5.1 / 2x 5.5x15	14	345	70	320 / 300	252	232	40 x SXRL 14 T gvz, 40 x base plate, 40 x T-console, 80 x rivet	1
FRH Set 14/360ZP + T60x60 F-SP AL, ATK601	566089	60	50	60	3	4x 4.1	2x 5.1 / 2x 5.5x15	14	375	70	350 / 330	282	262	40 x SXRL 14 T gvz, 40 x base plate, 40 x T-console, 80 x rivet	1
FRH Set 14/100ZP + T33x60 F-SP AL, ATK601	559358	33	50	60	3	4x 4.1	2x 5.1 / 2x 5.5x15	14	115	70	90 / 70	22	2	50 x SXRL 14 T gvz, 50 x base plate, 50 x T-console, 100 x rivet	1
FRH Set 14/300ZP + T33x60 F-SP AL, ATK601	559366	33	50	60	3	4x 4.1	2x 5.1 / 2x 5.5x15	14	315	70	290 / 270	222	202	40 x SXRL 14 T gvz, 40 x base plate, 40 x T-console, 80 x rivet	1
FRH Set 14/330ZP + T33x60 F-SP AL, ATK601	559367	33	50	60	3	4x 4.1	2x 5.1 / 2x 5.5x15	14	345	70	320 / 300	252	232	40 x SXRL 14 T gvz, 40 x base plate, 40 x T-console, 80 x rivet	1
FRH Set 14/120ZP + T33x60 F-SP AL, ATK601	559359	33	50	60	3	4x 4.1	2x 5.1 / 2x 5.5x15	14	135	70	110 / 90	42	22	50 x SXRL 14 T gvz, 50 x base plate, 50 x T-console, 100 x rivet	1

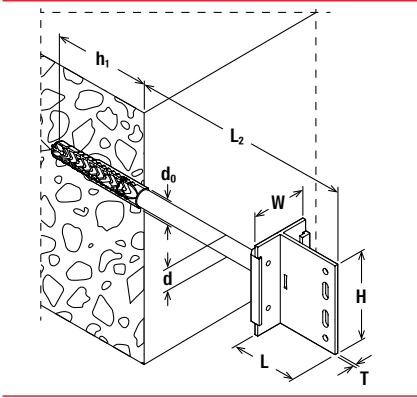
Wall holders FRH F-SP AL, ATK601 set

Fixed-/sliding point wall holder sets FRH F-SP aluminium, ATK601 with zinc-plated screw



FRH F-SP Set, ATK601

		Length	Width	Height	Thick-ness	Hole pattern	Hole pattern profile	Drill diame-ter	Min. drill hole depth	Min. em-bed-ment depth	Length	Usable length at ancho-rage depth 70 mm	Usable length at ancho-rage depth 90 mm	Contents	Sales unit
	Item no.	L [mm]	W [mm]	H [mm]	T [mm]	[mm]	[mm]	d ₀ [mm]	h ₁ [mm]	h ₁ [mm]	L ₂ [mm]	t _{fix} [mm]	t _{fix} [mm]		[pcs]
Item															
FRH Set 14/360ZP + T33x60 F-SP AL, ATK601	559368	33	50	60	3	4x 4.1	2x 5.1 / 2x 5.5x15	14	375	70	350 / 330	282	262	40 x SXRL 14 T gvz, 40 x base plate, 40 x T-console, 80 x rivet	1
FRH Set 14/140ZP + T33x60 F-SP AL, ATK601	559360	33	50	60	3	4x 4.1	2x 5.1 / 2x 5.5x15	14	155	70	130 / 110	62	42	50 x SXRL 14 T gvz, 50 x base plate, 50 x T-console, 100 x rivet	1
FRH Set 14/160ZP + T33x60 F-SP AL, ATK601	559361	33	50	60	3	4x 4.1	2x 5.1 / 2x 5.5x15	14	175	70	150 / 130	82	62	50 x SXRL 14 T gvz, 50 x base plate, 50 x T-console, 100 x rivet	1
FRH Set 14/180ZP + T33x60 F-SP AL, ATK601	559362	33	50	60	3	4x 4.1	2x 5.1 / 2x 5.5x15	14	195	70	170 / 150	102	82	50 x SXRL 14 T gvz, 50 x base plate, 50 x T-console, 100 x rivet	1
FRH Set 14/200ZP + T33x60 F-SP AL, ATK601	559363	33	50	60	3	4x 4.1	2x 5.1 / 2x 5.5x15	14	215	70	190 / 170	122	102	50 x SXRL 14 T gvz, 50 x base plate, 50 x T-console, 100 x rivet	1
FRH Set 14/80ZP + T33x60 F-SP AL, ATK601	559357	33	50	60	3	4x 4.1	2x 5.1 / 2x 5.5x15	14	95	70	70	2	–	50 x SXRL 14 T gvz, 50 x base plate, 50 x T-console, 100 x rivet	1
FRH Set 14/230ZP + T33x60 F-SP AL, ATK601	559364	33	50	60	3	4x 4.1	2x 5.1 / 2x 5.5x15	14	245	70	220 / 200	152	132	50 x SXRL 14 T gvz, 50 x base plate, 50 x T-console, 100 x rivet	1
FRH Set 14/260ZP + T33x60 F-SP AL, ATK601	559365	33	50	60	3	4x 4.1	2x 5.1 / 2x 5.5x15	14	275	70	250 / 230	182	162	50 x SXRL 14 T gvz, 50 x base plate, 50 x T-console, 100 x rivet	1



Wall holders FUH AL

U-wall holder for ventilated rainscreen façades.



System illustration FUH AL with ATK100 + ATK106SZ20 for metal cassettes

Applications

- As an U-shaped wall holder made of aluminium for the vertical subframe system ATK101
- For load transfer into the building substrate of subframe systems in ventilated rainscreen façades

Advantages

- The U-shaped geometry of the wall holder ensures optimised load transfer.
- The combination of wall holder and vertical profile ensures optimum compensation of tolerances in the building substrate.
- Compatible with all common fixings and connectors (e.g. fischer frame fixings and steel anchors).
- The predesigned hole pattern allows for quick and easy installation.
- The long projection lengths form the basis for large wall constructions and ensure flexible use.

Properties

- Aluminium (e. g. EN AW 6063, 6061)

Functioning

- Vertical load transfer from the subframe system into the building substrate
- Absorption of higher loads through double-sided attachment
- Compensation for structural tolerances
- Easy installation with attachments on both sides

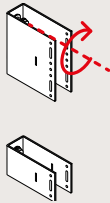
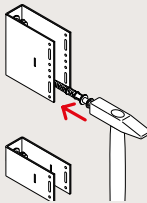
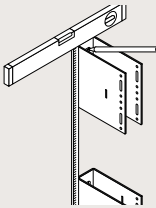
Building materials

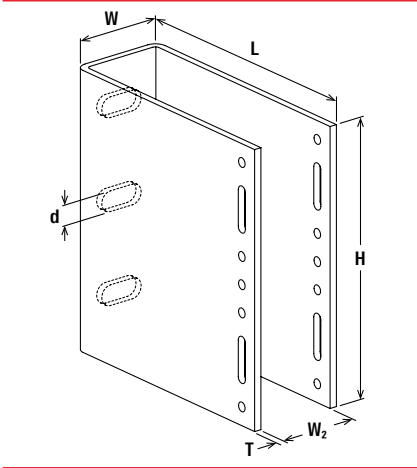
- All building substrates

Certificates / Features



Installation FUH AL





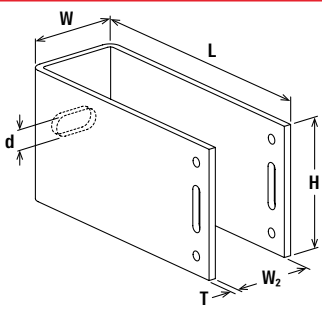
FUH 150 F-SP AL

Fixed-/ sliding point wall holders FUH 150 F-SP aluminium



FUH 150 F-SP AL

		Length	Width	Width	Height	Thickness	Dimensi- ons	Hole pattern	Hole pattern profile	Content per box	Sales unit
Item	Item no.	L [mm]	W [mm]	W ₂ [mm]	H [mm]	T [mm]	d [mm]	[mm]	[mm]	[pcs.]	[pcs]
FUH 60x50x3-150/3x11/SP AL	565440	60	56	50	150	3	11x25	3x 11x25	10x 5.1 / 4x 5.5x25	50	1
FUH 80x50x3-150/3x11/SP AL	565441	80	56	50	150	3	11x25	3x 11x25	10x 5.1 / 4x 5.5x25	50	1
FUH 100x50x3-150/3x11/SP AL	565442	100	56	50	150	3	11x25	3x 11x25	10x 5.1 / 4x 5.5x25	50	1
FUH 120x50x3-150/3x11/SP AL	565443	120	56	50	150	3	11x25	3x 11x25	10x 5.1 / 4x 5.5x25	25	1
FUH 140x50x3-150/3x11/SP AL	565444	140	56	50	150	3	11x25	3x 11x25	10x 5.1 / 4x 5.5x25	25	1
FUH 160x50x3-150/3x11/SP AL	565445	160	56	50	150	3	11x25	3x 11x25	10x 5.1 / 4x 5.5x25	25	1
FUH 180x50x3-150/3x11/SP AL	565446	180	56	50	150	3	11x25	3x 11x25	10x 5.1 / 4x 5.5x25	25	1
FUH 200x50x3-150/3x11/SP AL	565447	200	56	50	150	3	11x25	3x 11x25	10x 5.1 / 4x 5.5x25	25	1
FUH 220x50x3-150/3x11/SP AL	565448	220	56	50	150	3	11x25	3x 11x25	10x 5.1 / 4x 5.5x25	25	1
FUH 240x50x3-150/3x11/SP AL	565449	240	56	50	150	3	11x25	3x 11x25	10x 5.1 / 4x 5.5x25	25	1
FUH 260x50x3-150/3x11/SP AL	565450	260	56	50	150	3	11x25	3x 11x25	10x 5.1 / 4x 5.5x25	25	1
FUH 280x50x3-150/3x11/SP AL	565451	280	56	50	150	3	11x25	3x 11x25	10x 5.1 / 4x 5.5x25	20	1
FUH 300x50x3-150/3x11/SP AL	565452	300	56	50	150	3	11x25	3x 11x25	10x 5.1 / 4x 5.5x25	20	1
FUH 320x50x3-150/3x11/SP AL	565453	320	56	50	150	3	11x25	3x 11x25	10x 5.1 / 4x 5.5x25	20	1



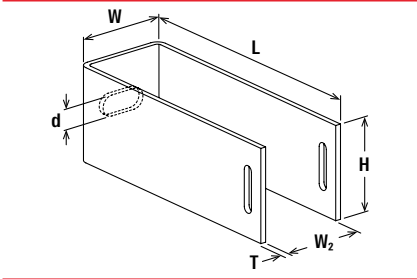
FUH 70 F-SP AL

Fixed-/ sliding point wall holders FUH 70 F-SP aluminium



FUH 70 F-SP AL

		Length	Width	Width	Height	Thickness	Dimensi- ons	Hole pattern	Hole pattern profile	Content per box	Sales unit
Item	Item no.	L [mm]	W [mm]	W ₂ [mm]	H [mm]	T [mm]	d [mm]	[mm]	[mm]	[pcs.]	[pcs]
FUH 60x50x3-70/1x11/SP AL	548043	60	56	50	70	3	11x25	1x 11x25	4x 5.1 / 2x 5.5x25	100	1
FUH 80x50x3-70/1x11/SP AL	548044	80	56	50	70	3	11x25	1x 11x25	4x 5.1 / 2x 5.5x25	100	1
FUH 100x50x3-70/1x11/SP AL	548048	100	56	50	70	3	11x25	1x 11x25	4x 5.1 / 2x 5.5x25	100	1
FUH 120x50x3-70/1x11/SP AL	548049	120	56	50	70	3	11x25	1x 11x25	4x 5.1 / 2x 5.5x25	50	1
FUH 140x50x3-70/1x11/SP AL	548050	140	56	50	70	3	11x25	1x 11x25	4x 5.1 / 2x 5.5x25	50	1
FUH 160x50x3-70/1x11/SP AL	548054	160	56	50	70	3	11x25	1x 11x25	4x 5.1 / 2x 5.5x25	50	1
FUH 180x50x3-70/1x11/SP AL	548055	180	56	50	70	3	11x25	1x 11x25	4x 5.1 / 2x 5.5x25	50	1
FUH 200x50x3-70/1x11/SP AL	548056	200	56	50	70	3	11x25	1x 11x25	4x 5.1 / 2x 5.5x25	50	1
FUH 220x50x3-70/1x11/SP AL	565454	220	56	50	70	3	11x25	1x 11x25	4x 5.1 / 2x 5.5x25	50	1
FUH 240x50x3-70/1x11/SP AL	565455	240	56	50	70	3	11x25	1x 11x25	4x 5.1 / 2x 5.5x25	50	1
FUH 260x50x3-70/1x11/SP AL	565456	260	56	50	70	3	11x25	1x 11x25	4x 5.1 / 2x 5.5x25	40	1
FUH 280x50x3-70/1x11/SP AL	565457	280	56	50	70	3	11x25	1x 11x25	4x 5.1 / 2x 5.5x25	40	1
FUH 300x50x3-70/1x11/SP AL	565458	300	56	50	70	3	11x25	1x 11x25	4x 5.1 / 2x 5.5x25	40	1
FUH 320x50x3-70/1x11/SP AL	565459	320	56	50	70	3	11x25	1x 11x25	4x 5.1 / 2x 5.5x25	40	1



3

FUH 50 SP AL

Sliding point wall holders FUH 50 SP aluminium



FUH 50 SP AL

Item	Item no.	Length	Width	Width	Height	Thickness	Dimensions	Hole pattern	Hole pattern profile	Content per box	Sales unit
		L [mm]	W [mm]	W ₂ [mm]	H [mm]	T [mm]	d [mm]	[mm]	[mm]	[pcs.]	[pcs]
FUH 60x50x3-50/1x11/SP AL	565460	60	56	50	50	3	11x25	1x 11x25	2x 5.5x25	100	1
FUH 80x50x3-50/1x11/SP AL	565461	80	56	50	50	3	11x25	1x 11x25	2x 5.5x25	100	1
FUH 100x50x3-50/1x11/SP AL	565462	100	56	50	50	3	11x25	1x 11x25	2x 5.5x25	100	1
FUH 120x50x3-50/1x11/SP AL	565463	120	56	50	50	3	11x25	1x 11x25	2x 5.5x25	50	1
FUH 140x50x3-50/1x11/SP AL	565464	140	56	50	50	3	11x25	1x 11x25	2x 5.5x25	50	1
FUH 160x50x3-50/1x11/SP AL	565465	160	56	50	50	3	11x25	1x 11x25	2x 5.5x25	50	1
FUH 180x50x3-50/1x11/SP AL	565466	180	56	50	50	3	11x25	1x 11x25	2x 5.5x25	50	1
FUH 200x50x3-50/1x11/SP AL	565467	200	56	50	50	3	11x25	1x 11x25	2x 5.5x25	50	1
FUH 220x50x3-50/1x11/SP AL	565468	220	56	50	50	3	11x25	1x 11x25	2x 5.5x25	50	1
FUH 240x50x3-50/1x11/SP AL	565469	240	56	50	50	3	11x25	1x 11x25	2x 5.5x25	50	1
FUH 260x50x3-50/1x11/SP AL	565470	260	56	50	50	3	11x25	1x 11x25	2x 5.5x25	40	1
FUH 280x50x3-50/1x11/SP AL	565471	280	56	50	50	3	11x25	1x 11x25	2x 5.5x25	40	1
FUH 300x50x3-50/1x11/SP AL	565472	300	56	50	50	3	11x25	1x 11x25	2x 5.5x25	40	1
FUH 320x50x3-50/1x11/SP AL	565473	320	56	50	50	3	11x25	1x 11x25	2x 5.5x25	40	1

Wall holders FPH

Pi-wall holder with fixing points on both sides.



System illustration FPH AL with ATK101 + 103 and FZP II in natural stone



Façade cross-section FPH AL with ATK101 + SystemOne BS and FZP II in natural stone

3

Applications

- As a Pi-shaped wall holder made of aluminium for the vertical subframe system ATK101
- For load transfer into the building substrate of subframe systems in ventilated rainscreen facades

Advantages

- The Pi-shaped geometry of the wall holder ensures optimised load transfer.
- The combination of wall holder and vertical profile ensures optimum compensation of tolerances in the building substrate.
- Compatible with all common fixings and connectors (e.g. fischer frame fixings and steel anchors).
- The predesigned hole pattern allows for quick and easy installation.
- The long projection lengths form the basis for large wall constructions and ensure flexible use.

Certificates / Features



Properties

- Aluminium (e. g. EN AW 6063, 6061)

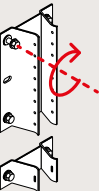
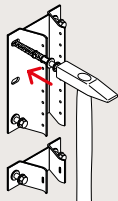
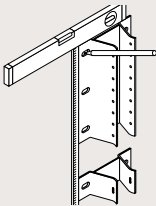
Functioning

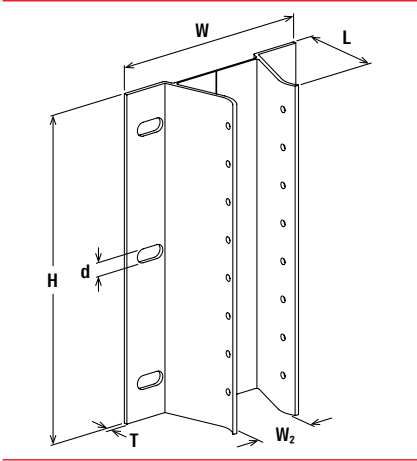
- Vertical load transfer from the subframe system into the building substrate
- Absorption of higher loads through double-sided attachment
- Compensation for structural tolerances
- Easy installations with attachments on both sides

Building materials

- All building substrates

Installation FPH AL



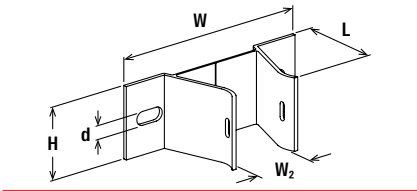


FPH FP AL

Fixed point wall holder FPH FP aluminium



	Item no.	Length	Width	Width	Height	Thickness	Dimensions	Hole pattern	Hole pattern profile	Sales unit
		L [mm]	W [mm]	W ₂ [mm]	H [mm]	T [mm]	d [mm]	[mm]	[mm]	[pcs]
Item										
FPH 30x180x2.5-50/6x11/FP AL	018442	30	140	50	180	2.5	11x25	6x 11x25	10x 5.1	40
FPH 54x180x3-50/6x11/FP AL	018444	54	160	50	180	3	11x25	6x 11x25	10x 5.1	40
FPH 68x180x3-50/6x11/FP AL	048900	68	160	50	180	3	11x25	6x 11x25	10x 5.1	30
FPH 93x180x3-50/6x11/FP AL	048901	93	160	50	180	3	11x25	6x 11x25	10x 5.1	20
FPH 133x180x3-50/6x11/FP AL	030367	133	160	50	180	3	11x25	6x 11x25	10x 5.1	24



FPH SP AL

Sliding point wall holders FPH SP aluminium



	Item no.	Length	Width	Width	Height	Thickness	Dimensions	Hole pattern	Hole pattern profile	Sales unit
		L [mm]	W [mm]	W ₂ [mm]	H [mm]	T [mm]	d [mm]	[mm]	[mm]	[pcs]
Item										
FPH 30x60x2.5-50/2x11/SP AL	018443	30	140	50	60	2.5	11x25	2x 11x25	2x 5.1x15	100
FPH 54x60x3-50/2x11/SP AL	018445	54	160	50	60	3	11x25	2x 11x25	2x 5.1x15	100
FPH 68x60x3-50/2x11/SP AL	048903	68	160	50	60	3	11x25	2x 11x25	2x 5.1x15	75
FPH 93x60x3-50/2x11/SP AL	048902	93	160	50	60	3	11x25	2x 11x25	2x 5.1x15	90
FPH 133x60x3-50/2x11/SP AL	030368	133	160	50	60	3	11x25	2x 11x25	2x 5.1x15	50

Wall holders wood FTH AL

Combination solution for wooden and aluminum subframes.



System illustration FLH AL with FTH and wooden beam for wooden cladding

Applications

- As an T-shaped connecting element for the combination of aluminium and timber subframes in ventilated rainscreen façades.
- To connect the ATK100 aluminum wall holder system and the timber load bearing component.
- For load transfer into the wall holder of subframe systems in ventilated rainscreen façades.

Advantages

- The optimal solution for combining wooden and aluminium subframe systems.
- The solution is compatible with all fischer wall holdersystems.

Properties

- Aluminium (e. g. EN AW 6063, 6061)

Functioning

- Vertical load transfer
- Connection between aluminium and timber substructure
- Centric load transfer

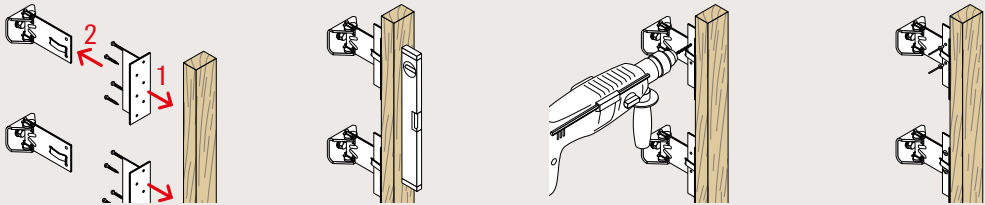
Building materials

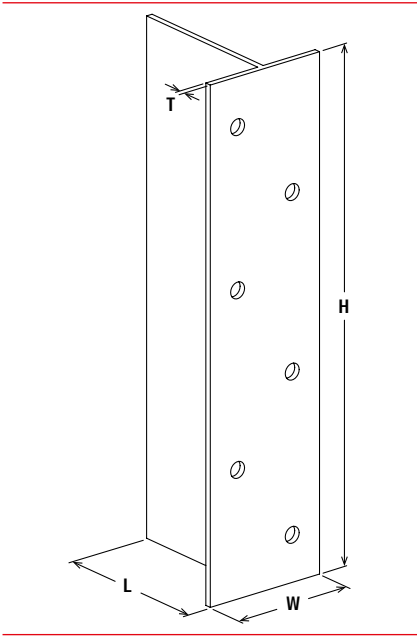
- Wood

Certificates / Features



Installation FTH





FTH F-SP AL

Fixed-/ sliding point wall holders wood FTH F-SP aluminium



FTH F-SP AL

	Item no.	Length	Width	Height	Thickness	Hole pattern profile	Content per box	Sales unit
		L [mm]	W [mm]	H [mm]	T [mm]	[mm]	[pcs.]	[pcs]
Item								
FTH 52x160x40x2/F-SP AL	565704	52	40	160	2	6x 5.1	50	1
FTH 52x160x60x2/F-SP AL	565705	52	60	160	2	6x 5.1	50	1



4

Vertical profiles

Product nomenclature	79	
Single-legged vertical profiles ATK100	81	
Double-legged vertical profiles ATK101	85	
Vertical clamp profiles ATK102	89	

Hawally Court Complex - Hawally - Kuwait

Vertical profiles.

For vertical load transfer of ventilated rainscreen façades.

fischer offers a wide range of vertical aluminum profiles, designed for various structural demands and easy installation.

Variety for every application

Whether it's T-profiles for large-scale façade systems, box profiles for added stability, or L-profiles for precise corner solutions, fischer provides the right option for every application.

Integrated subframe solutions

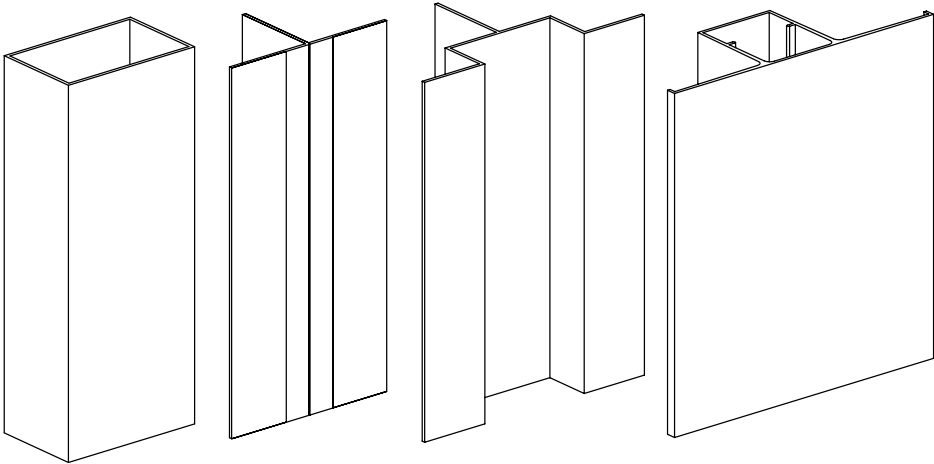
Our vertical profiles are an integral part of fischer's subframe systems, perfectly harmonizing with other components such as wall holders and horizontal profiles. They allow flexible fastening, easy installation and optimal structural performance.

Tailored solutions

We assist you in selecting the right profile for your project, tailored to your structural and design needs.

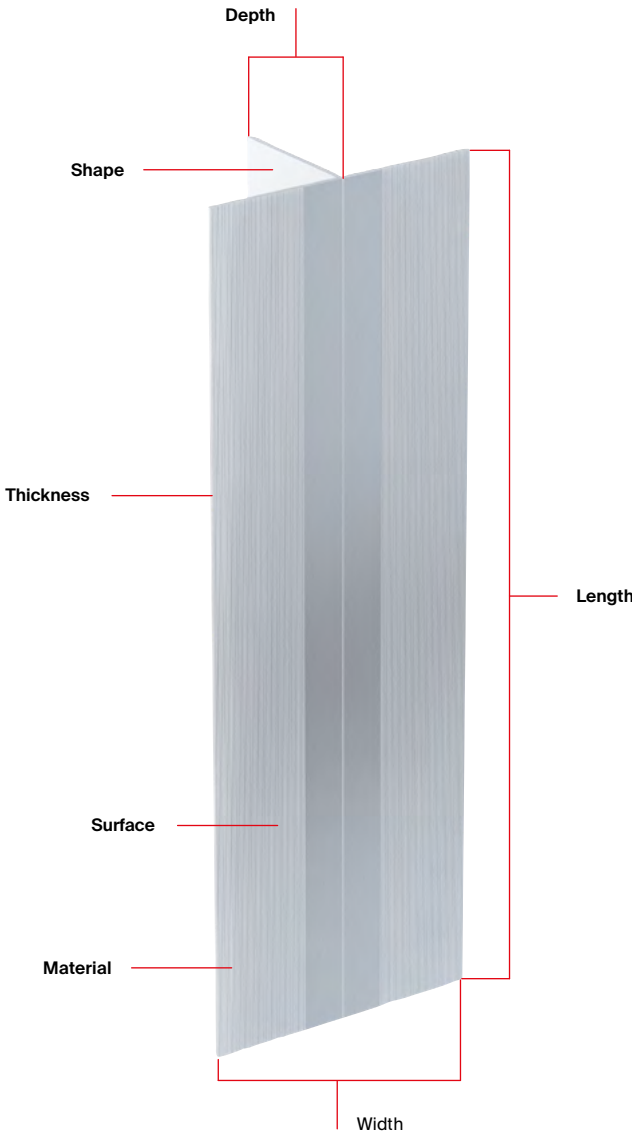
Advantages at a glance

- Wide range of profile types (T, L, Tulip, Box, Pi, Hat Profiles)
- Perfectly integrated with fischer subframe systems
- Lightweight and corrosion-resistant materials
- Flexible and easy installation with rivets or screws
- Supports thermal efficiency



Product nomenclature.

Vertical system
fischer
Shape:
L, T, Tulip, Box, Pi, Hat
Width
Depth
Surface & color
Material
Thickness
Length
FVT-Profile 100/52/2 ribbed AL, 6M



Product nomenclature.

4

Vertical system

fischer

Shape:
L, T, Tulip, Box, Pi, Hat

Width 1

Depth

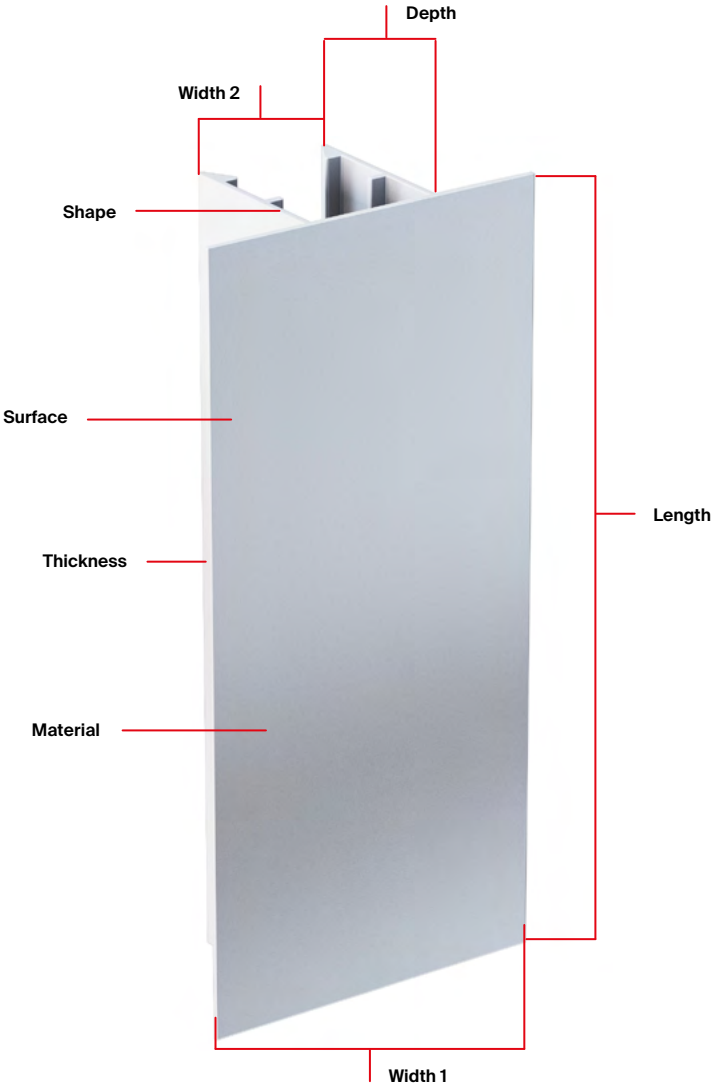
Width 2

Thickness

Material

Length

FVPi-Profile 110/55/2-50 AL, 6M



Single-legged vertical profiles ATK100

For vertical load transfer of ventilated rainscreen façades.



System illustration FLH R with ATK100 + ATK103 and FZP II in ceramics



Façade cross-section FLH AL with ATK100 + 103 and FZP II in natural stone

Applications

- As a vertical profile for the subframe system ATK100 in ventilated rainscreen façades

Certificates / Features



Advantages

- The vertical profiles allow multifunctional use for direct fixings, as a spacer sub-structure or as a base construction.
- The geometry of the vertical profile enables optimised load transfer.
- The combination of wall holder and vertical profile ensures optimum compensation of tolerances in the building substrate.
- The various available geometries are specially adapted to the individual application.
- The surfaces are available in uncoated or black.

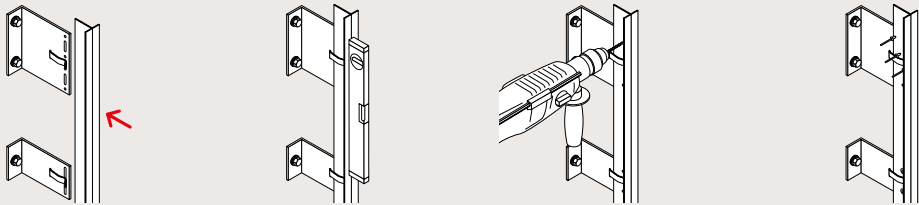
Properties

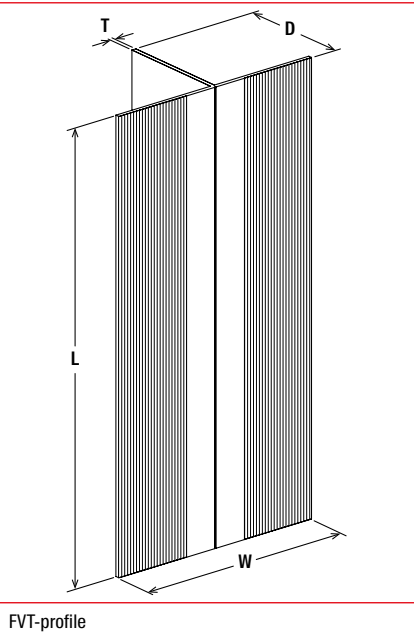
- Aluminium (e. g. EN AW 6063, 6061)

Functioning

- Vertical load transfer of the impacting loads and transfer to the wall holders
- Compensation of structural tolerances together with the wall holders

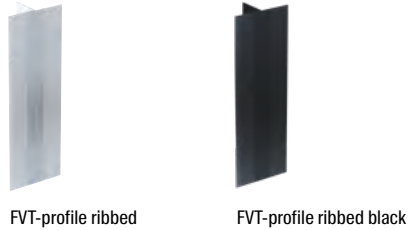
Installation FVT-profiles





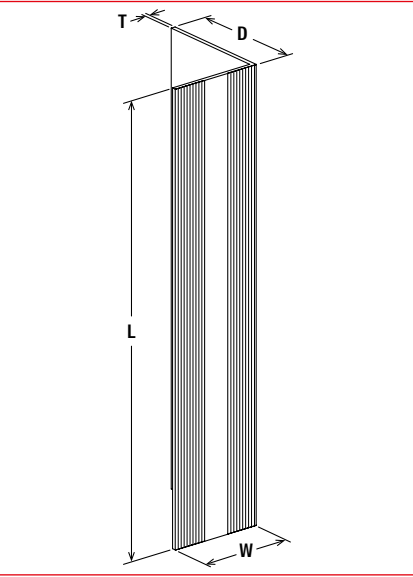
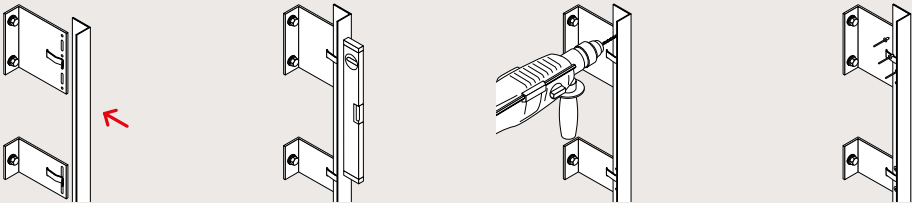
FVT-profiles

Vertical T-profiles with ribbed/flat surface, black or aluminium for system ATK100



	Item no.	Width W [mm]	Depth D [mm]	Thickness T [mm]	Length L [mm]	Surface	Colour	Sales unit [pcs]
Item								
FVT-profile 40/50/2 AL, 6M	547552	40	50	2	6,000	flat	aluminium	1
FVT-profile 40/52/2 ribbed, AL, 6M	545589	40	52	2	6,000	ribbed	aluminium	1
FVT-profile 40/52/2 ribbed, black, AL, 6M	545601	40	52	2	6,000	ribbed	black	1
FVT-profile 40/52/2,5 ribbed, AL, 6M	565926	40	52	2.5	6,000	ribbed	aluminium	1
FVT-profile 40/52/2,5 ribbed, black, AL, 6M	559386	40	52	2.5	6,000	ribbed	black	1
FVT-profile 50/32/2 ribbed, AL, 6M	559381	50	32	2	6,000	ribbed	aluminium	1
FVT-profile 60/52/2 AL, 6M	548276	60	52	2	6,000	flat	aluminium	1
FVT-profile 60/52/2 black, AL, 6M	547554	60	52	2	6,000	flat	black	1
FVT-profile 70/52/2 ribbed, AL, 6M	547167	70	52	2	6,000	ribbed	aluminium	1
FVT-profile 80/52/2 AL, 6M	548280	80	52	2	6,000	flat	aluminium	1
FVT-profile 100/50/2 AL, 6M	547555	100	50	2	6,000	flat	aluminium	1
FVT-profile 100/50/2 black, AL, 6M	559387	100	50	2	6,000	flat	black	1
FVT-profile 100/52/2 ribbed, AL, 6M	548275	100	52	2	6,000	ribbed	aluminium	1
FVT-profile 100/52/2 ribbed, black, AL, 6M	548287	100	52	2	6,000	ribbed	black	1
FVT-profile 110/52/2 ribbed, black, AL, 6M	545603	110	52	2	6,000	ribbed	black	1
FVT-profile 110/52/2 ribbed, AL, 6M	545600	110	52	2	6,000	ribbed	aluminium	1
FVT-profile 120/50/2 AL, 6M	559384	120	50	2	6,000	flat	aluminium	1
FVT-profile 120/32/2 ribbed, AL, 6M	559382	120	32	2	6,000	ribbed	aluminium	1
FVT-profile 120/52/2 ribbed, AL, 6M	545599	120	52	2	6,000	ribbed	aluminium	1
FVT-profile 120/52/2 ribbed, black, AL, 6M	545602	120	52	2	6,000	ribbed	black	1
FVT-profile 120/52/2,5 ribbed, AL, 6M	565925	120	52	2.5	6,000	ribbed	aluminium	1
FVT-profile 120/52/2,5 ribbed, black, AL, 6M	559385	120	52	2.5	6,000	ribbed	black	1
FVT-profile 150/52/2 ribbed, AL, 6M	548278	150	52	2	6,000	ribbed	aluminium	1
FVT-profile 160/52/2 ribbed, AL, 6M	548279	160	52	2	6,000	ribbed	aluminium	1

Installation FVL-profiles



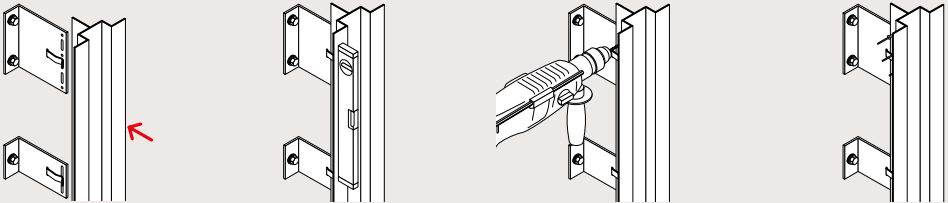
FVL-profiles

Vertical L-profiles with ribbed/flat surface, black or aluminium for system ATK100



	Item no.	Width W [mm]	Depth D [mm]	Thickness T [mm]	Length L [mm]	Surface	Colour	Sales unit [pcs]
Item								
FVL-profile 40/50/2 AL, 6M	559383	40	50	2	6,000	flat	aluminium	1
FVL-profile 40/50/2 black, AL, 6M	559388	40	50	2	6,000	flat	black	1
FVL-profile 42/50/2 ribbed, AL, 6M	548277	42	50	2	6,000	ribbed	aluminium	1
FVL-profile 42/50/2 ribbed, black, AL, 6M	548286	42	50	2	6,000	ribbed	black	1

Installation FVTulip-profiles



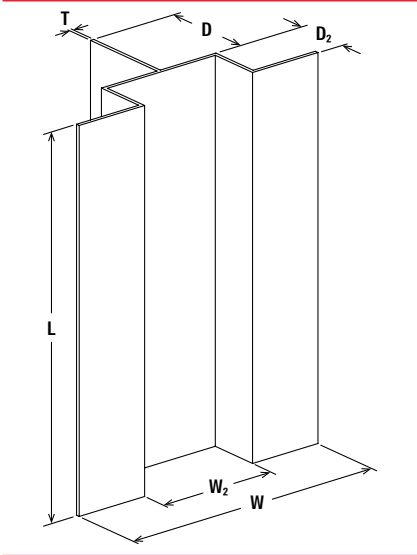
FVTulip-profiles

Vertical Tulip-profiles with ribbed/flat surface, black or aluminium for System ATK100 or ATK107FLH



FVTulip-profile

	Item no.	Width W [mm]	Width W ₂ [mm]	Depth D [mm]	Depth D ₂ [mm]	Thickness T [mm]	Length L [mm]	Surface	Colour	Sales unit [pcs]
Item										
FVTulip-profile 146/50+30/2 AL, 6M	565000	146	66	50	30	2	6,000	flat	aluminium	1
FVTulip-profile 86/50+25/2, black, AL, 6M, ATK107FLH	573411	84	50	50	25	2	6,000	flat	black	1
FVTulip-profile 86/50+25/2, AL, 6M, ATK107FLH	573410	84	50	50	25	2	6,000	flat	aluminium	1



Double-legged vertical profiles ATK101

For vertical load transfer of ventilated rainscreen façades.



System illustration FUH AL with ATK101 + ATK103 and FZP II in natural stone



Façade cross-section FPH AL with ATK101 + Syste-mOne BS and FZP II in natural stone

Applications

- As a vertical profile for the ATK101 sub-frame system for ventilated rainscreen façades

Certificates / Features



Advantages

- The vertical profiles allow multifunctional use for direct fixings, as a spacer sub-structure or as a base construction.
- The geometry of the vertical profile enables optimised load transfer.
- The combination of wall holder and vertical profile ensures optimum compensation of tolerances in the building substrate.
- The various available geometries are specially adapted to the individual application.
- The surfaces are available in uncoated or black.

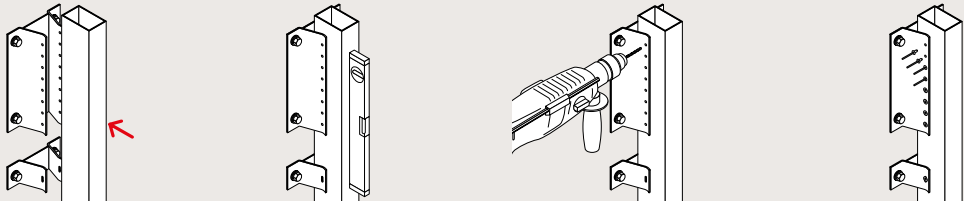
Properties

- Aluminium (e. g. EN AW 6063, 6061)

Functioning

- Vertical load transfer of the impacting loads and transfer to the wall holders
- Compensation of structural tolerances together with the wall holders

Installation FVBox-profiles



FVBox-profiles

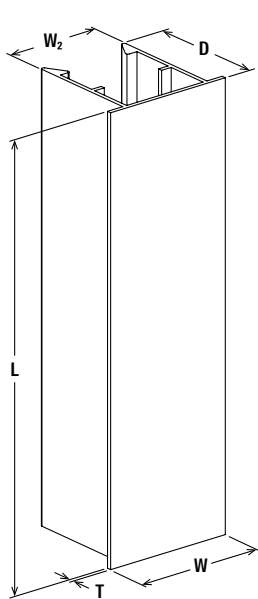
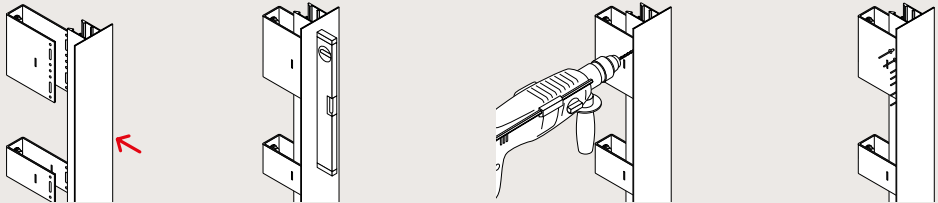
Vertical Box-profiles with flat surface, aluminium for system ATK101



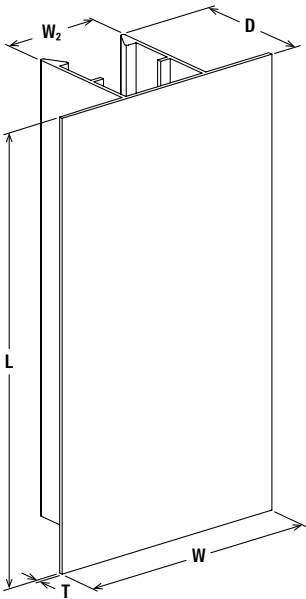
FVBox-profile

	Item no.	Width W [mm]	Depth D [mm]	Thickness T [mm]	Length L [mm]	Surface	Colour	Sales unit [pcs]
Item								
FVBox-profile 50/25/2 AL, 6M	018441	50	25	2	6,000	flat	aluminium	1
FVBox-profile 50/30/2 AL, 6M	077545	50	30	2	6,000	flat	aluminium	1
FVBox-profile 50/40/2 AL, 6M	077546	50	40	2	6,000	flat	aluminium	1
FVBox-profile 50/50/2 AL, 6M	048895	50	50	2	6,000	flat	aluminium	1
FVBox-profile 50/80/2 AL, 6M	048896	50	80	2	6,000	flat	aluminium	1
FVBox-profile 50/100/2 AL, 6M	048897	50	100	2	6,000	flat	aluminium	1
FVBox-profile 50/120/3 AL, 6M	048898	50	120	3	6,000	flat	aluminium	1
FVBox-profile 50/150/3 AL, 6M	097884	50	150	3	6,000	flat	aluminium	1
FVBox-profile 50/180/3 AL, 6M	097885	50	180	3	6,000	flat	aluminium	1

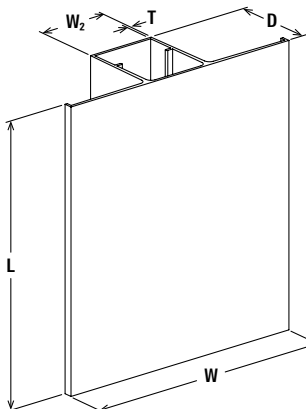
Installation FVPi-profiles



Pi-profile 60/55



Pi-profile 110/55



FVPi-profile 180

FVPi-profiles

Vertical Pi-profiles with flat surface, aluminium for system ATK101



FVPi-profile 60/55



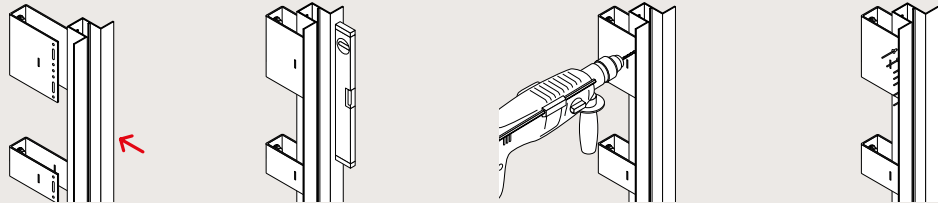
FVPi-profile 110/55

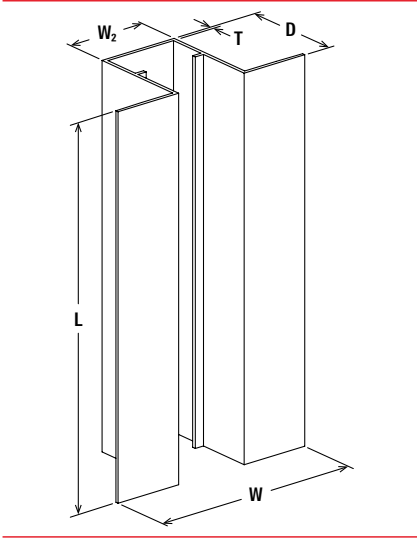


FVPi-profile 180

	Item no.	Width W [mm]	Width W ₂ [mm]	Depth D [mm]	Thickness T [mm]	Length L [mm]	Surface	Colour	Sales unit [pcs]
Item									
FVPi-profile 60/55/2-50 ribbed, AL, 6M	559426	60	50	55	2	6,000	flat	aluminium	1
FVPi-profile 110/55/2-50 flat, AL, 6M	559425	110	50	55	2	6,000	flat	aluminium	1
FVPi-profile 180/60/2-50 ribbed, AL, 6M	077692	180	50	60	2	6,000	flat	aluminium	1
FVPi-profile 180/110/2-50 ribbed, AL, 6M	509279	180	50	110	2	6,000	flat	aluminium	1

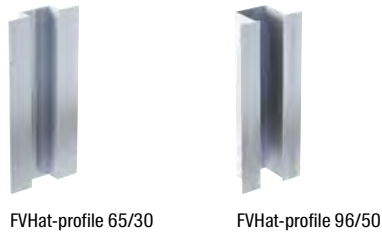
Installation FVHat-profiles





FVHat-Profiles

Vertical Hat-profiles with flat/ribbed surface, aluminium/black for system ATK101



Item	Item no.	Width W [mm]	Width W ₂ [mm]	Depth D [mm]	Thickness T [mm]	Length L [mm]	Surface	Colour	Sales unit [pcs]
FVHat-profile 65/15/2-30 AL, 6M	565203	65	30	15	2	6,000	flat	aluminium	1
FVHat-profile 96/50/2-50 ribbed, AL, 6M	565356	96	50	50	2	6,000	ribbed	aluminium	1
FVHat-profile 116/15/2-60 AL, 6M	565204	116	60	15	2	6,000	flat	aluminium	1
FVHat-profile 116/15/2-60 black, AL, 6M	559389	116	60	15	2	6,000	flat	black	1
FVHat-profile 120/30/2-30 AL, 6M	565703	120	30	30	2	6,000	flat	aluminium	1
FVHat-profile 120/55/2-50 ribbed, AL, 6M	559424	120	50	55	2	6,000	flat	aluminium	1

Vertical profiles for clamp system ATK102

For vertical load transfer and fixing of clamps for façade panels on ventilated rainscreen façades.



System illustration FLH AL with ATK102 + panel clamp FPC ATK102 for ceramics

Applications

- As a vertical profile for the ATK102 subframe system with façade clamps for ventilated rainscreen façades

Certificates / Features



Advantages

- The vertical profiles allow multifunctional use for direct fixings, as a spacer sub-structure or as a base construction.
- The geometry of the vertical profile enables optimised load transfer.
- The combination of wall holder and vertical profile ensures optimum compensation of tolerances in the building substrate.
- The various available geometries are specially adapted to the individual application.
- The surfaces are available in uncoated or black.

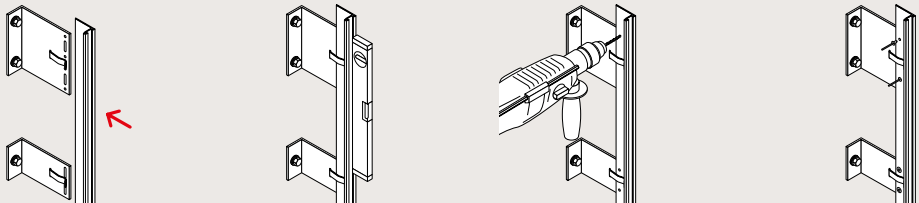
Properties

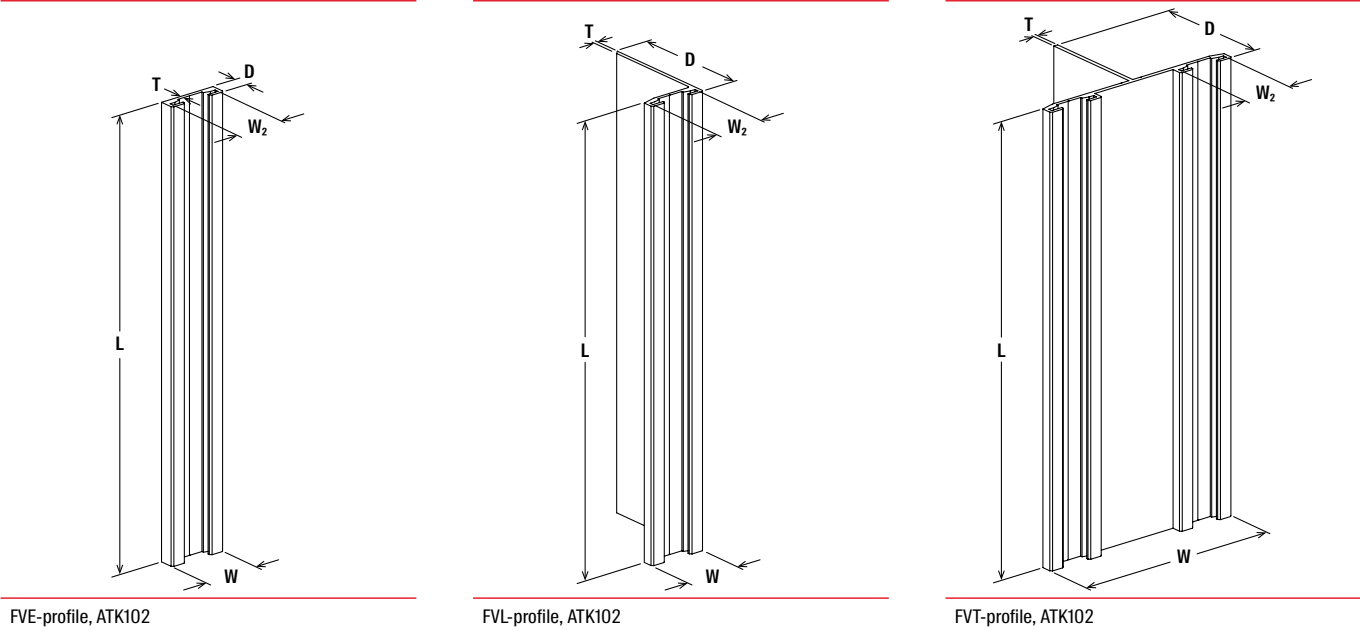
- Aluminium (e. g. EN AW 6063, 6061)

Functioning

- Vertical load transfer of the impacting loads and transfer to the wall holders
- Compensation of structural tolerances together with the wall holders

Installation FV clamp profiles ATK 102 - example FVL ATK 102





FV clamp profiles

Vertical clamp-profiles with flat surface, aluminium for clamp system ATK102									
									
FVE-profile, ATK102	FVL-profile, ATK102	FVT-profile, ATK102							
	Item no.	Width W [mm]	Width W ₂ [mm]	Depth D [mm]	Thickness T [mm]	Length L [mm]	Surface	Colour	Sales unit [pcs]
Item									
FVE-profile 27/7/2 AL, 6M, ATK102	565197	27	23.5	7	2	6,000	flat	aluminium	1
FVL-profile 27/55/2 AL, 6M, ATK102	565201	27	23.5	55	2	6,000	flat	aluminium	1
FVT-profile 94,4/55/2-67,5 ribbed, AL, 6M, ATK102	565198	94.4	23.5	55	2	6,000	flat	aluminium	1



5

Exposed fixings

Product nomenclature	95	
Panel clamps ATK100KL	97	
Panel clamps ATK102	100	
Panel clamps ATK107	103	
Panel clamp bolts FPC-B ATK107FLH	105	

Exposed fixings.

For a visible and economical fixing of façade panels at ventilated rainscreen façades.

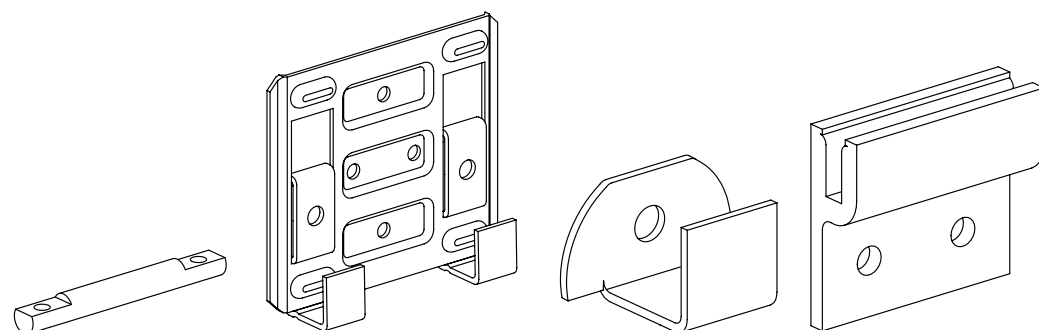
fischer provides innovative solutions for exposed fixing methods, offering secure attachment for a wide range of façade panel materials. Our diverse clamp options ensure that various materials, including ceramic, fiber cement, HPL, metal, and ACM, can be effortlessly installed while meeting the highest aesthetic standards.

Our visible façade panel clamps not only provide reliable fastening but can also be colored to match the specific panel type. This allows for a visually cohesive façade, where the clamps blend seamlessly with the overall design, enhancing the aesthetic appeal of your project.

Advantages at a glance:

- Versatile clamps suitable for a variety of panel materials (ceramic, fiber cement, HPL, metal, ACM)
- Aesthetic flexibility with color-matched visible clamps
- Secure and reliable fastening solutions
- Part of fischer's easy-to-install subframe system

For more information, please contact us. Together, we can elevate the design and functionality of your façade.



Product nomenclature.

Panel Suitable panel thickness Material System

FPC-G 8/3,3 R, ATK100KL



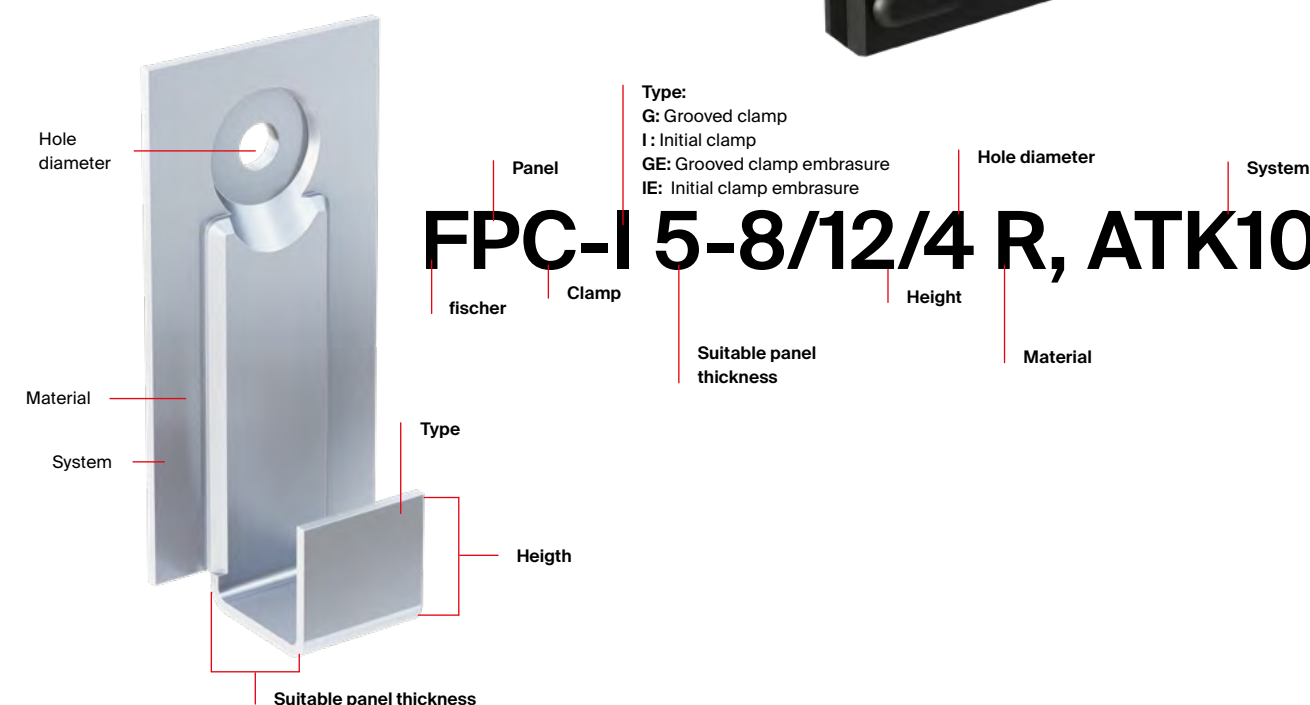
Type:
G: Grooved clamp
I: Initial clamp
GE: Grooved clamp embrasure
IE: Initial clamp embrasure

Panel

Hole diameter

System

FPC-I 5-8/12/4 R, ATK102



Product nomenclature.

5

Panel

fischer

Clamp

Type
1: 1 Hole
2: 2 Holes

Suitable panel thickness

Hole diameter

Material

System

FPC-2 4/5,1 AL, ATK107

Suitable panel thickness

Material

System

Hole diameter

Type

Panel

fischer

Clamp

Type:
B: Bolt

Thickness

Hole diameter

Material

System

FPC-B 10 5,5 AL, ATK107FLH

Thickness

Type

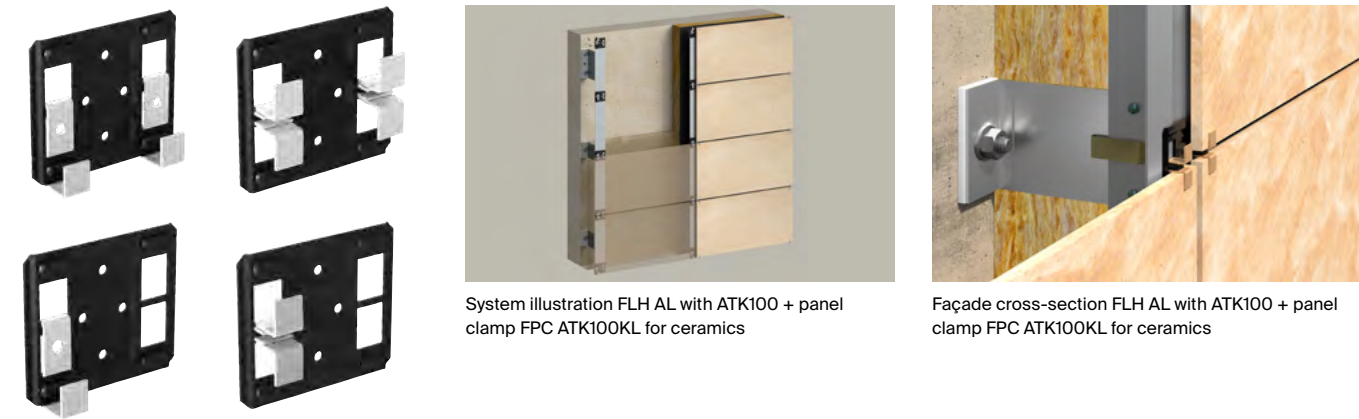
Material

System

Hole diameter

Panel clamps FPC ATK100KL

For visible fixing of façade panels in ventilated rainscreen façades with clamps.



Applications

- For visible fixing of façade panels (e.g. ceramic tiles) in ventilated rainscreen façades with clamps ATK100KL in combination with ATK100 vertical system

Advantages

- The solution enables visible fixing of façade panels.
- Different variants are adapted for various applications.
- Clamps can be coated in the respective panel colour

Properties

- Stainless steel

Functioning

- Visible fixing by means of clamps at the edge of the façade panels

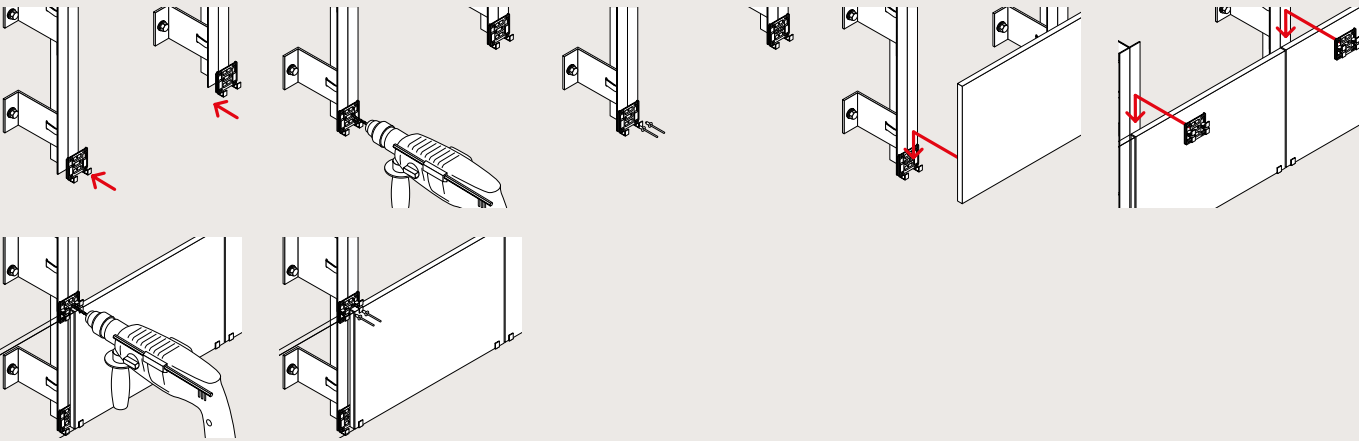
Building materials

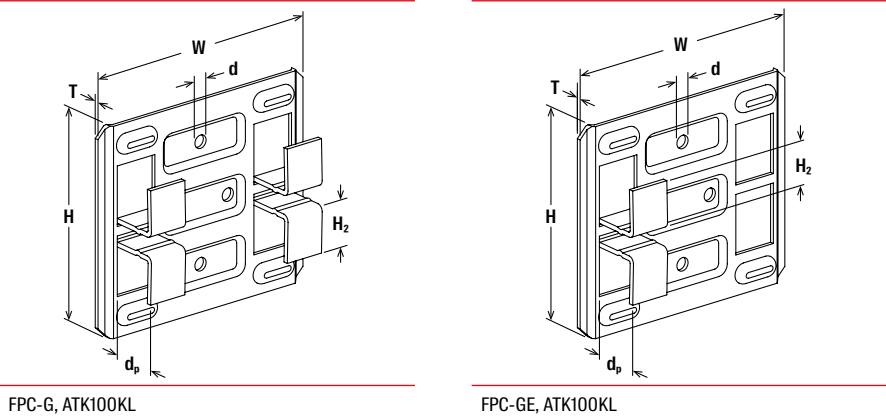
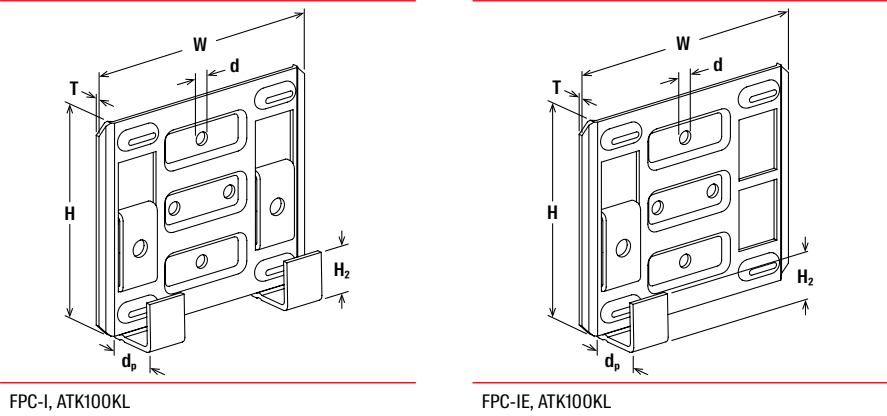
- Ceramics
- Porcelain stoneware
- Fibre cement
- HPL panels
- Solid surface panels
- Thin panel materials (≥ 8 mm)

Certificates / Features



Installation panel clamps FPC ATK100KL





Initial clamps FPC-I / FPC-IE, ATK100KL

Initial clamps FPC-I / Initial clamps embrasure FPC-IE, ATK100KL; stainless steel



FPC-I, ATK100KL		FPC-IE, ATK100KL							
		Panel thick- ness d _p [mm]	Width W [mm]	Height H [mm]	Height H ₂ [mm]	Thickness T [mm]	Dimensions d [mm]	Contents	Sales unit
Item	Item no.								[pcs]
FPC-I 8/3.3 R, ATK100KL	553125	8	60	52	12	4.2	3.3	120 x Clamps	1
FPC-I 9.5/3.3 R, ATK100KL	558836	9.5	60	52	12	4.2	3.3	120 x Clamps	1
FPC-I 10.5/3.3 R, ATK100KL	558837	10.5	60	52	12	4.2	3.3	120 x Clamps	1
FPC-I 11.5/3.3 R, ATK100KL	558838	11.5	60	52	12	4.2	3.3	120 x Clamps	1
FPC-I 13/3.3 R, ATK100KL	558839	13	60	52	12	4.2	3.3	120 x Clamps	1
FPC-IE 8/3.3 R, ATK100KL	553126	8	60	52	12	4.2	3.3	120 x Clamps	1
FPC-IE 9.5/3.3 R, ATK100KL	558842	9.5	60	52	12	4.2	3.3	120 x Clamps	1
FPC-IE 10.5/3.3 R, ATK100KL	558843	10.5	60	52	12	4.2	3.3	120 x Clamps	1
FPC-IE 11.5/3.3 R, ATK100KL	558844	11.5	60	52	12	4.2	3.3	120 x Clamps	1
FPC-IE 13/3.3 R, ATK100KL	558845	13	60	52	12	4.2	3.3	120 x Clamps	1

Grooved clamps FPC-G / FPC-GE, ATK100KL

Grooved clamps FPC-G / Grooved clamps embrasure FPC-GE, ATK100KL; stainless steel



FPC-G, ATK100KL		FPC-GE, ATK100KL							
		Panel thick- ness d _p [mm]	Width W [mm]	Height H [mm]	Height H ₂ [mm]	Thickness T [mm]	Dimensions d [mm]	Contents	Sales unit
Item	Item no.								[pcs]
FPC-G 8/3.3 R, ATK100KL	553128	8	60	52	12	4.2	3.3	120 x Clamps	1
FPC-G 9.5/3.3 R, ATK100KL	558846	9.5	60	52	12	4.2	3.3	120 x Clamps	1
FPC-G 10.5/3.3 R, ATK100KL	558847	10.5	60	52	12	4.2	3.3	120 x Clamps	1
FPC-G 11.5/3.3 R, ATK100KL	558848	11.5	60	52	12	4.2	3.3	120 x Clamps	1
FPC-G 13/3.3 R, ATK100KL	558849	13	60	52	12	4.2	3.3	120 x Clamps	1
FPC-GE 8/3.3 R, ATK100KL	553129	8	60	52	12	4.2	3.3	120 x Clamps	1
FPC-GE 9.5/3.3 R, ATK100KL	558851	9.5	60	52	12	4.2	3.3	120 x Clamps	1
FPC-GE 10.5/3.3 R, ATK100KL	558852	10.5	60	52	12	4.2	3.3	120 x Clamps	1
FPC-GE 11.5/3.3 R, ATK100KL	558853	11.5	60	52	12	4.2	3.3	120 x Clamps	1
FPC-GE 13/3.3 R, ATK100KL	558854	13	60	52	12	4.2	3.3	120 x Clamps	1

Panel clamps FPC ATK102

For visible fixing of façade panels as well as concealed fixing of terracotta in ventilated rainscreen façades with clamps.



System illustration FLH AL with ATK102 + panel clamp FPC ATK102 for ceramics



System illustration FLH AL with ATK102 + panel clamp FPC ATK102 for terracotta

Applications

- For visible fixing of thinner façade panels (e.g. ceramic tiles) as well as concealed fixing of terracotta in ventilated rainscreen façades with clamps ATK102 in combination with ATK102 vertical system

Advantages

- The solution enables concealed fixing of terracotta and visible fixing of ceramic panels.
- Different variants are adapted for various applications.

Properties

- Stainless steel

Functioning

- Visible fixing by means of inserted clamps at the edge of the façade panels

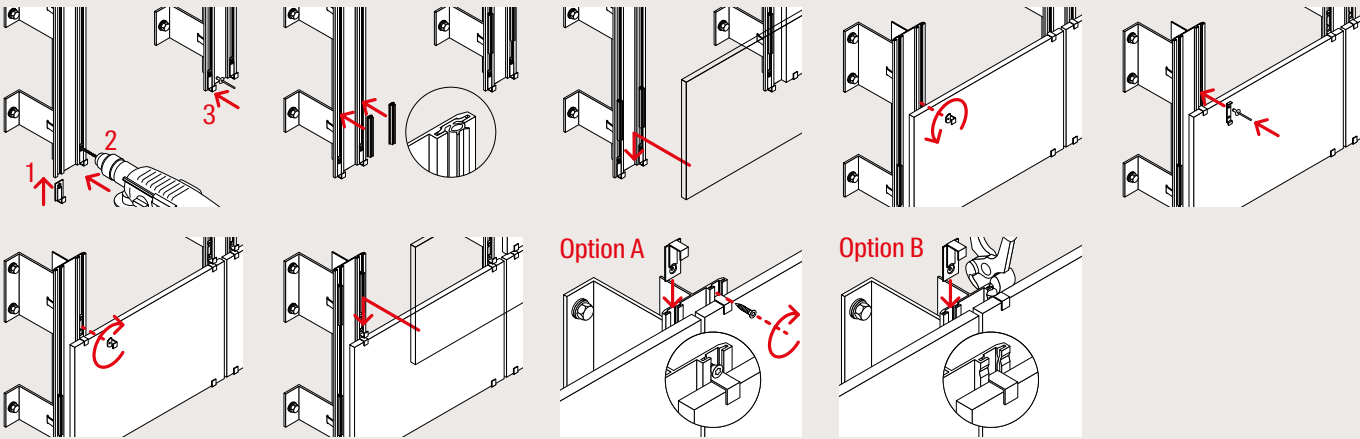
Certificates / Features



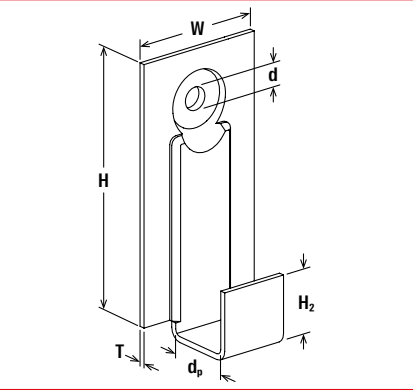
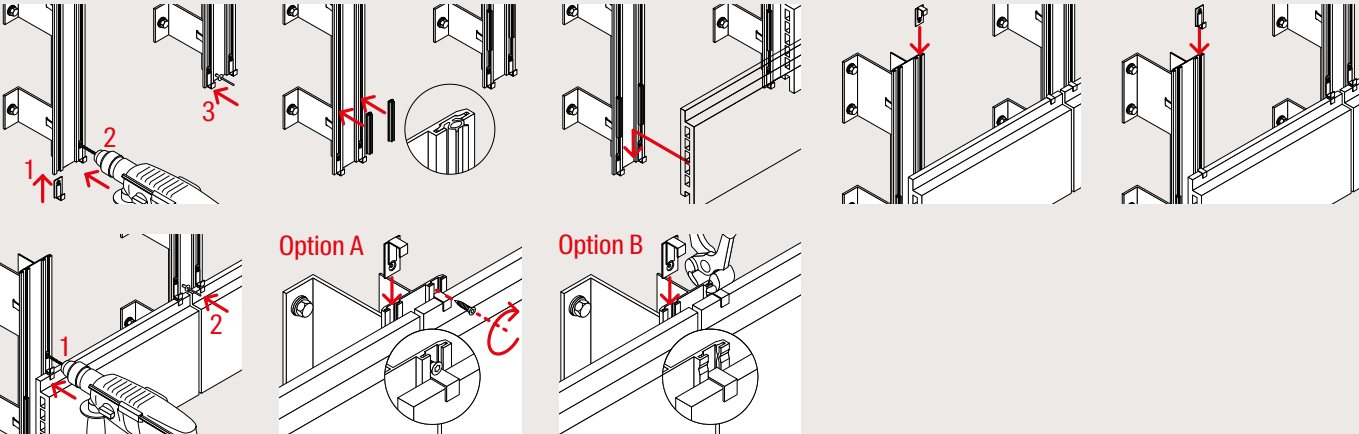
Building materials

- Ceramics
- Porcelain stoneware
- Terracotta

Installation panel clamps FPC ATK102 (visible fixing)



Installation panel clamps FPC ATK102 (concealed fixing)



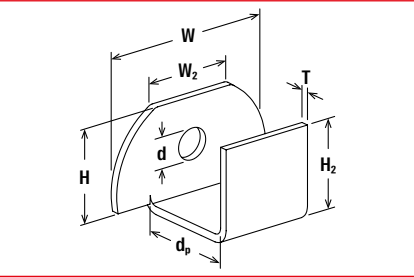
Initial clamps FPC-I ATK102

Initial clamps FPC-I, ATK102; stainless steel



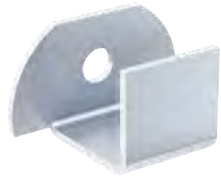
FPC-I, ATK102

Item	Item no.	Panel thickness d _p [mm]	Width W [mm]	Height H [mm]	Height H ₂ [mm]	Thickness T [mm]	Dimensions d [mm]	Contents	Sales unit [pcs]
FPC-I 5-8/12/4 R, ATK102 RAL	559404	5 - 8	22.5	48	12	1	4	240 x Clamps	1
FPC-I 8-11/8/4 R, ATK102	559350	8 - 11	22.5	48	8	1	4	240 x Clamps	1
FPC-I 8-11/12/4 R, ATK102 RAL	559405	8 - 11	22.5	48	12	1	4	240 x Clamps	1
FPC-I 8-11/12/4 R, ATK102	559349	8 - 11	22.5	48	12	1	4	240 x Clamps	1
FPC-I 11-13/8/4 R, ATK102	559352	11 - 13	22.5	48	8	1	4	240 x Clamps	1
FPC-I 11-13/12/4 R, ATK102	559351	11 - 13	22.5	48	12	1	4	240 x Clamps	1
FPC-I 11-13/12/4 R, ATK102 RAL	559406	11 - 13	22.5	48	12	1	4	240 x Clamps	1
FPC-I 14-15/8.5/4 R, ATK102	559354	14 - 15	22.5	48	8.5	1.5	4	240 x Clamps	1
FPC-I 14-15/12/4 R, ATK102	559353	14 - 15	22.5	48	12	1.5	4	240 x Clamps	1



Grooved clamps FPC-G, ATK102

Grooved clamps FPC-G, ATK102; stainless steel



FPC-G, ATK102

		Panel thickness	Width	Width	Height	Height	Thickness	Dimensi- ons	Contents	Sales unit
	Item no.	d _p [mm]	W [mm]	W ₂ [mm]	H [mm]	H ₂ [mm]	T [mm]	d [mm]		[pcs]
Item										
FPC-G 5-8/4 R, ATK102	559401	5 - 8	22	12	12.5	10	1	4	240 x Clamps	1
FPC-G 8-11/12/4 R, ATK102 RAL	559402	8 - 11	22	12	12.5	12	1	4	240 x Clamps	1
FPC-G 11-13/12/4 R, ATK102 RAL	559403	11 - 13	22	12	12.5	12	1	4	240 x Clamps	1

Panel clamps FPC ATK107

For fixing metal façades in ventilated rainscreen façades.



System illustration FLH AL with ATK100 + panel clamp FPC ATK107 for metal façades

Applications

- For fixing metal façades in ventilated rainscreen façades

Advantages

- The FPC ATK 107 clamp provides a simple fixing solution for metal façade panels and cassettes.
- By fixing the panels and cassettes directly to the vertical profile, no horizontal profile is required.

Properties

- Aluminium (e. g. EN AW 6063)

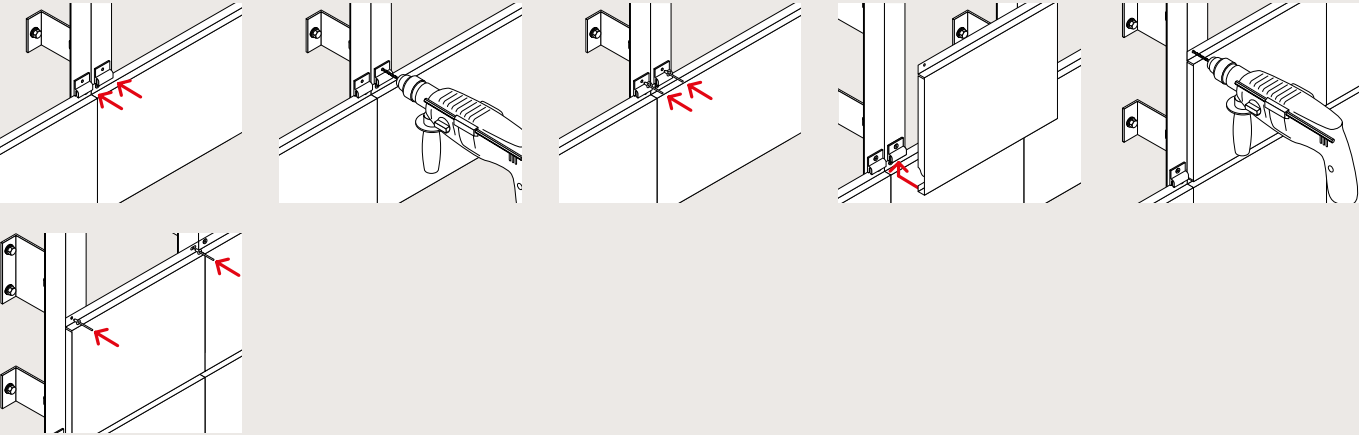
Functioning

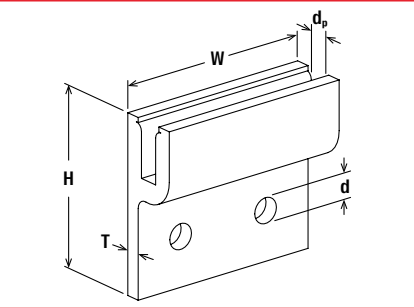
- Fixing of metal façades (primarily cassettes) by placing and mounting them using clamps, which are installed to the subframe profiles

Certificates / Features



Installation panel clamps FPC ATK107





FPC ATK107

Panel clamps FPC ATK107; aluminium

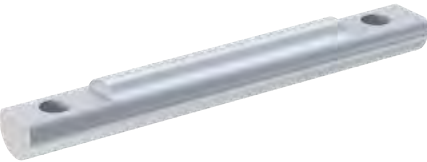


FPC-2, ATK107

		Panel thickness d _p [mm]	Width W [mm]	Height H [mm]	Thickness T [mm]	Dimensions d [mm]	Contents	Sales unit
Item	Item no.							[pcs]
FPC-1 2/30/5.1 AL, ATK107	565124	2	30	36	3	5.1	100 x Clamps	1
FPC-1 2/40/5.1 AL, ATK107	565130	2	40	36	3	5.1	100 x Clamps	1
FPC-1 3/40/5.1 AL, ATK107	565131	3	40	36	3	5.1	100 x Clamps	1
FPC-1 4/30/5.1 AL, ATK107	565126	4	30	36	3	5.1	100 x Clamps	1
FPC-1 4/40/5.1 AL, ATK107	565132	4	40	36	3	5.1	100 x Clamps	1
FPC-2 2/40/5.1 AL, ATK107	565127	2	40	36	3	2x 5.1	100 x Clamps	1
FPC-2 2/60/5.1 AL, ATK107	565133	2	60	36	3	2x 5.1	100 x Clamps	1
FPC-2 2/80/5.1 AL, ATK107	565136	2	80	36	3	2x 5.1	100 x Clamps	1
FPC-2 2/100/5.1 AL, ATK107	565139	2	100	36	3	2x 5.1	100 x Clamps	1
FPC-2 3/40/5.1 AL, ATK107	565128	3	40	36	3	2x 5.1	100 x Clamps	1
FPC-2 3/60/5.1 AL, ATK107	565134	3	60	36	3	2x 5.1	100 x Clamps	1
FPC-2 3/80/5.1 AL, ATK107	565137	3	80	36	3	2x 5.1	100 x Clamps	1
FPC-2 3/100/5.1 AL, ATK107	565140	3	100	36	3	2x 5.1	100 x Clamps	1
FPC-2 4/40/5.1 AL, ATK107	565129	4	40	36	3	2x 5.1	100 x Clamps	1
FPC-2 4/60/5.1 AL, ATK107	565135	4	60	36	3	2x 5.1	100 x Clamps	1
FPC-2 4/80/5.1 AL, ATK107	565138	4	80	36	3	2x 5.1	100 x Clamps	1
FPC-2 4/100/5.1 AL, ATK107	565141	4	100	36	3	2x 5.1	100 x Clamps	1

Panel clamp bolts FPC-B ATK107FLH

For fixing metal cassettes with bolt suspension in ventilated rainscreen façades.



System illustration FLH R with ATK100 + FPC-B ATK107FLH bolt for metal cassette façades



Façade cross-section FLH R with FPC-B ATK107FLH bolt for metal cassette façades

Applications

- For fixing metal cassettes with bolt suspension in ventilated rainscreen façades.

Advantages

- The FPC ATK 107FLH clamp-bolt provides a simple fixing solution for metal façade cassettes.
- By fixing the cassettes directly to the vertical profile, no horizontal profile is required.

Properties

- Aluminium (e. g. EN AW 6063)

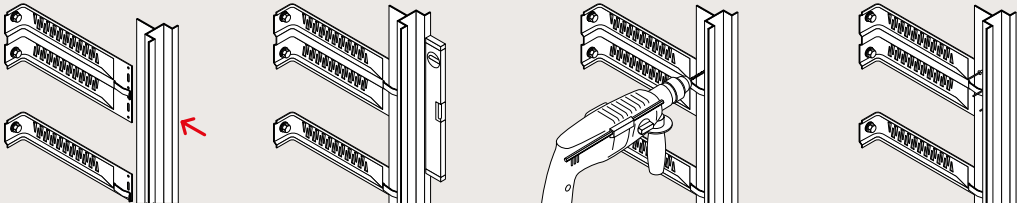
Certificates / Features



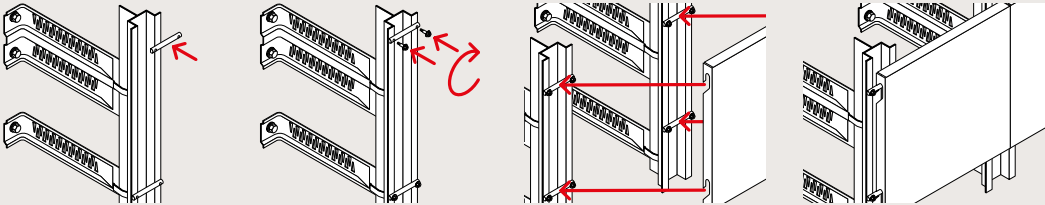
Functioning

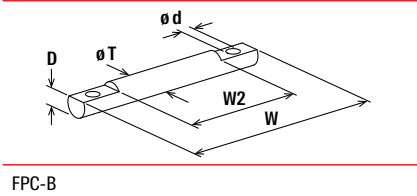
- Fixing of metal cassettes by hooking them onto the ATK 107FLH bolts and mounting them directly onto the sub-structure profiles

Installation ATK107



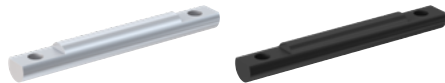
Installation FPC-B ATK107FLH





Clamp bolts FPC-B ATK107FLH

Clamp bolts FPC-B ATK107FLH; aluminium



FPC-B		FPC-B black						
		Width W [mm]	Width W ₂ [mm]	Thickness T [mm]	Depth D [mm]	Dimensions d [mm]	Colour	Sales unit [pcs]
Item	Item no.							
FPC-B 10 5.5 AL, ATK107FLH	573416	84	49.5	10	7.5	5.5	aluminium	100
FPC-B 10 5.5 black AL, ATK107FLH	573417	84	49.5	10	7.5	5.5	black	100



6

Horizontal systems

Product nomenclature	111
Horizontal profiles for suspension systems	112
Clasps for suspension systems	115
Horizontal cassette system ATK106SZ20	119



Horizontal systems.

For an aesthetic and concealed fixing of ventilated rainscreen façades.

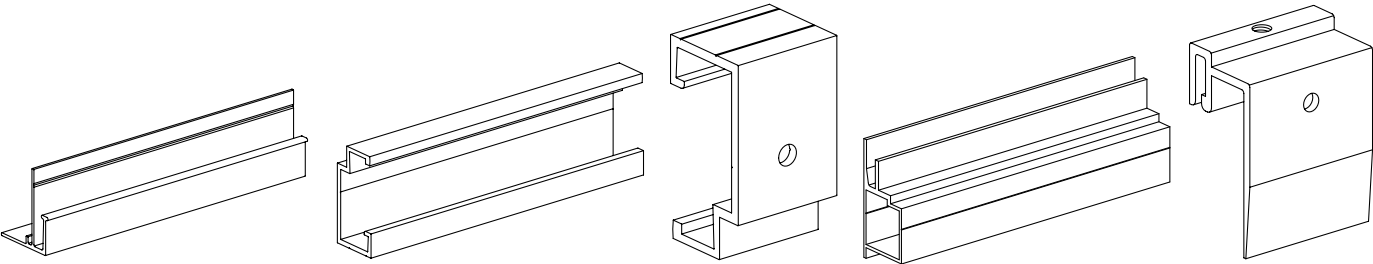
fischer offers a wide range of horizontal profiles designed for various structural and aesthetic needs in ventilated rainscreen façades. Each profile group provides specific advantages, ensuring optimal load-bearing capacity, ease of installation, and flexibility.

ATK103: This system is the perfect solution for concealed panel fixings via clasps and undercut anchors. They are used for horizontal load transfer, combining strength with material efficiency.

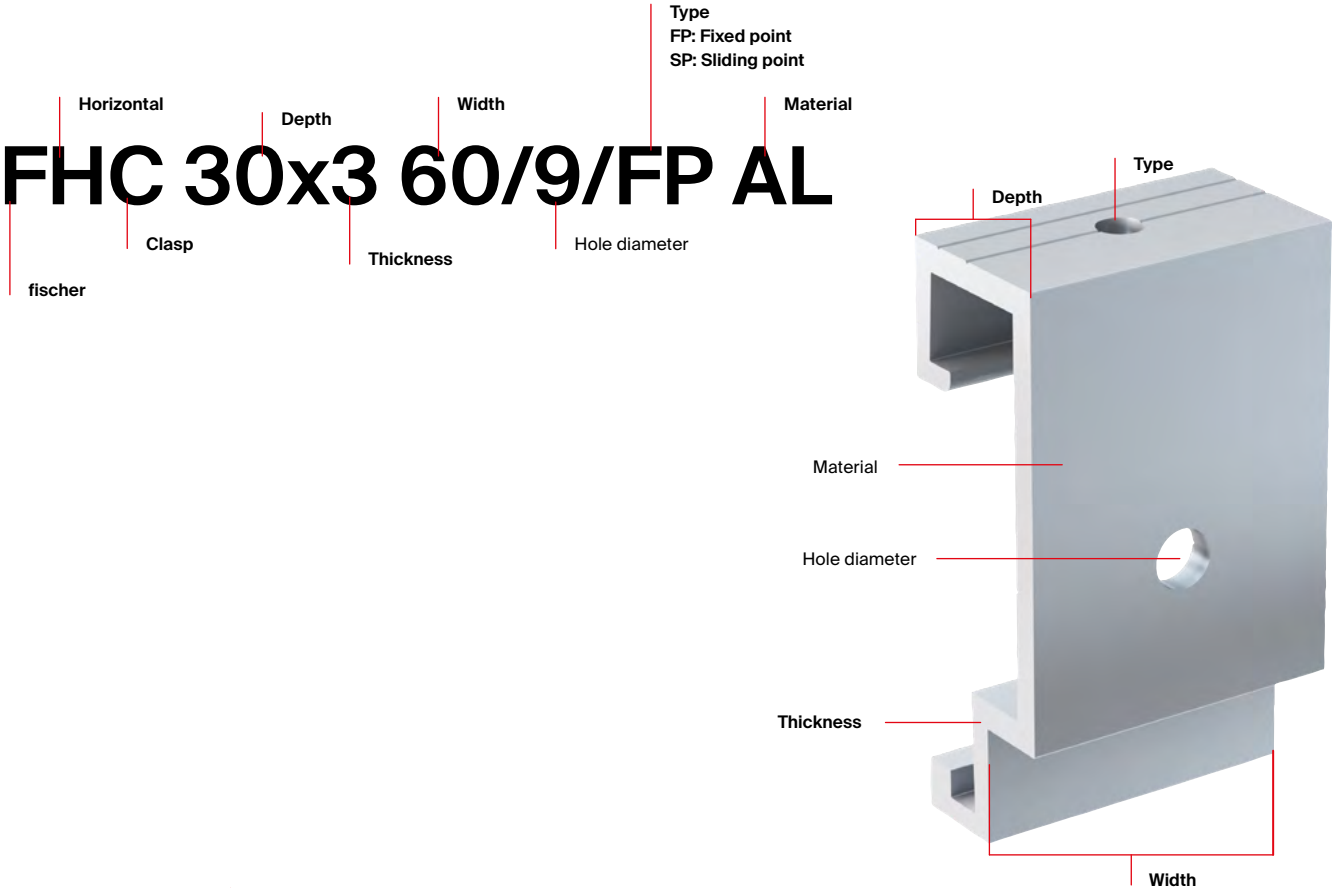
SystemOne: Offering additional strength and rigidity, this system provides stability for large or heavy façade panels. Their robust design makes them ideal for areas subject to high wind loads, ensuring that façade elements remain securely aligned.

ATK106SZ20: These system provide precise horizontal alignment and are designed to accommodate adjustments in façade panel positioning. It is highly versatile, supporting both stability and the flexibility required for different panel materials and façade designs.

- Advantages at a glance:**
- Efficient load transfer and easy installation
 - Solutions for light and heavy duty requirements
 - Perfectly combinable with other components of the fischer façade system



Product nomenclature.



Horizontal profiles for suspension systems

For horizontal load transfer of concealed cladded ventilated rainscreen façades.



System illustration FLH R with ATK100 + ATK103 and FZP II in ceramics



Façade cross-section FPH AL with ATK101 + SystemOne BS and FZP II in natural stone

Applications

- As a horizontal profile for the subframe systems ATK103 and SystemOne BS in ventilated rainscreen facades.

Certificates / Features



Advantages

- Optimised horizontal load transfer through transfer to the vertical profiles.
- The compatible geometries of the clasps and horizontal profiles enable quick and easy installation of the façade panels.
- The horizontal profiles can be used universally in nearly all subframe systems.
- The optimised geometry ensures material savings.
- The possibility of combining different versions allows for increased flexibility.

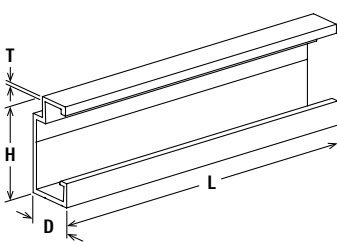
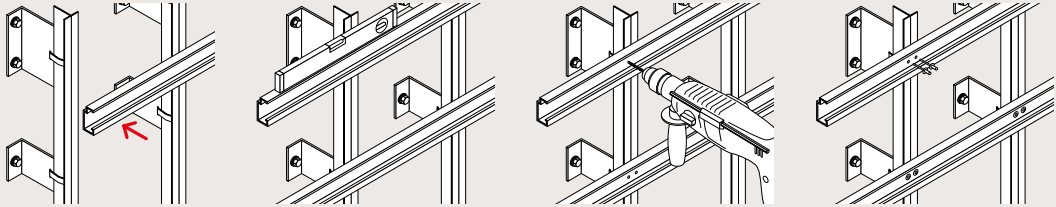
Properties

- Aluminium (e. g. EN AW 6063, 6061)

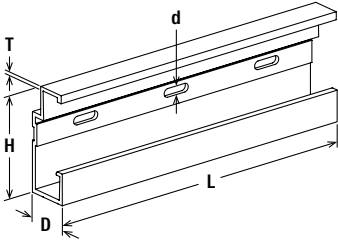
Functioning

- Horizontal load transfer of the impacting loads and transfer to the vertical level
- Geometric coordination

Installation FHC-profiles ATK103



FHC-profile ATK103



FHC-profile ATK103 perforated

FHC-profile ATK103

Horizontal C-profile FHC ATK103 Aluminium



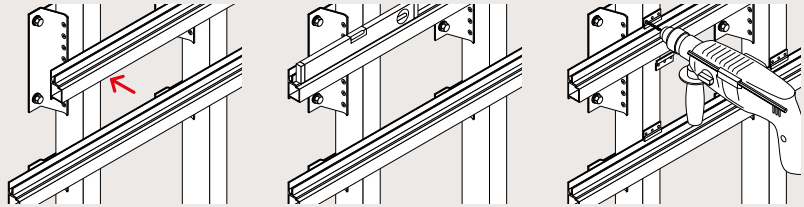
FHC-profile ATK103

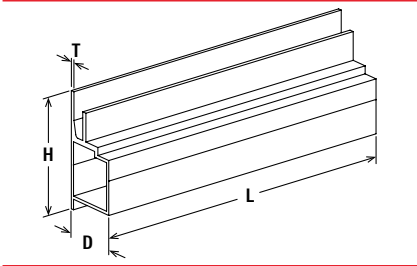


FHC-profile ATK103 perforated

		Depth D [mm]	Thickness T [mm]	Height H [mm]	Length L [mm]	Dimensions d [mm]	Sales unit [pcs]
Item	Item no.						
FHC-profile 20x2 AL, 6M	545584	20	2	62	6,000	–	1
FHC-profile 30x2 AL, 6M	547556	30	2	62	6,000	–	1
FHC-profile 30x3 AL, 6M	547558	30	3	62	6,000	–	1
FHC-profile 20x3 AL, 6M	547557	20	3	62	6,000	–	1
FHC-profile 30x3 AL, perforated, 6M	547182	30	3	62	6,000	3x 5.5x25	1
FHC-profile 20x3 AL, perforated, 6M	548011	20	3	62	6,000	3x 5.5x25	1
FHC-profile 30x2 AL, perforated, 6M	548009	30	2	62	6,000	3x 5.5x25	1
FHC-profile 20x2 AL, perforated, 6M	545597	20	2	62	6,000	3x 5.5x25	1

Installation FHBox-profiles SystemOne BS





FHBox-profile SystemOne BS

Horizontal Box-profile SystemOne BS Aluminium



FHBox-profile SystemOne BS

	Item no.	Depth D [mm]	Thickness T [mm]	Height H [mm]	Length L [mm]	Sales unit [pcs]
Item						
FHBox-profile 34x3 AL, 6M	048899	34	3	74	6,000	1

Horizontal clasps for suspension systems

For concealed fixing of façade panels in ventilated rainscreen façades.



System illustration FUH AL with ATK101 + ATK103 and FZP II in natural stone



Façade cross-section FPH AL with ATK101 + SystemOne BS and FZP II in natural stone

Applications

- As a suspension element in the horizontal profile for subframe systems ATK103 and SystemOne BS in ventilated rainscreen façades.
- As suspension clasps for suspension nuts for pure vertical substructure systems for ventilated curtain walls.

Advantages

- Clasps can be pre-assembled, saving time on the construction site.
- Fast and easy installation of façade panels thanks to the coordinated geometries of the clasps and horizontal profiles.

Properties

- Aluminium (e. g. EN AW 6063, 6061)

Functioning

- Load transfer to the building substrate (dead weight and wind)
- Absorption of loads through the connection to the undercut anchors
- Easy installation with conventional fixings and undercut anchors

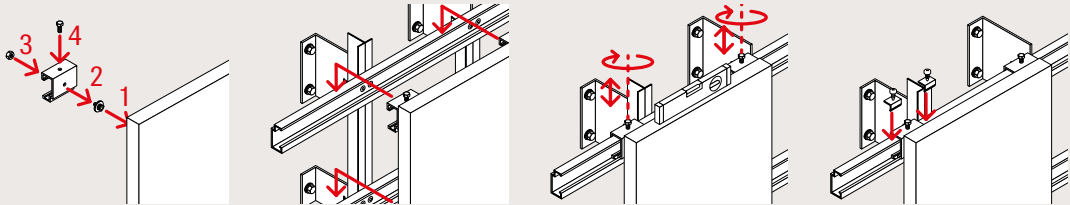
Building materials

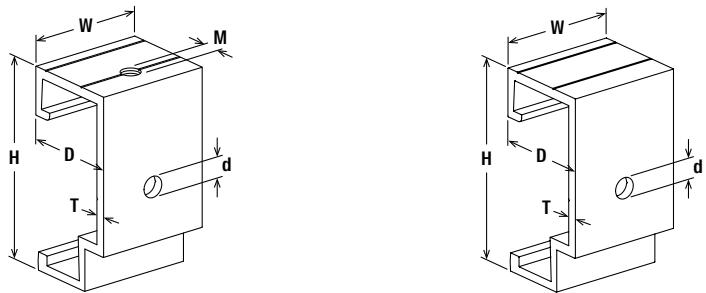
- Natural stone (≥ 20mm)
- Artificial concrete panels (e.g. GFRC, UHPC, etc.)
- Ceramics
- Porcelain stoneware
- Fibre cement
- HPL panels
- Solid surface panels
- Thin panel materials (≥ 8 mm)

Certificates / Features



Installation clasps FHC ATK103



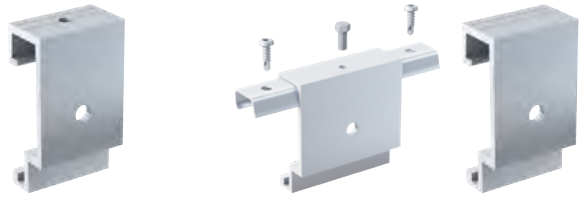


FHC FP

FHC SP

Clasps FHC 20, ATK103

Horizontal clasps FHC 20 fixed-point FP & sliding-point SP Aluminium

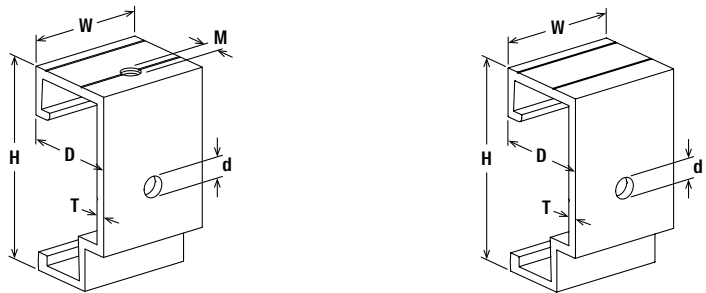


FHC FP

FHC FP set

FHC SP

		Depth	Thick-ness	Width	Height	Dimen-sions	Thread	Contents	Sales unit
	Item no.	D [mm]	T [mm]	W [mm]	H [mm]	d [mm]	M		[pcs]
Item									
FHC 20x2 36/6.5/FP AL	565246	20	2	36	62	6.5	M5	125 x Clasps, 125 x adjustment screw, 250 x U-fixation, 250 x fixation screw	1
FHC 20x2 36/9/FP AL	565247	20	2	36	62	9	M5	125 x Clasps, 125 x adjustment screw, 250 x U-fixation, 250 x fixation screw	1
FHC 20x2 60/6.5/FP AL	547532	20	2	60	62	6.5	M5	100 x Clasps, 100 x adjustment screw, 200 x U-fixation, 200 x fixation screw	1
FHC 20x2 60/9/FP AL	547536	20	2	60	62	9	M5	100 x Clasps, 100 x adjustment screw, 200 x U-fixation, 200 x fixation screw	1
FHC 20x2 80/6.5/FP AL	545570	20	2	80	62	6.5	M5	50 x Clasps, 50 x adjustment screw, 100 x U-fixation, 100 x fixation screw	1
FHC 20x2 80/9/FP AL	565248	20	2	80	62	9	M5	50 x Clasps, 50 x adjustment screw, 100 x U-fixation, 100 x fixation screw	1
FHC 20x3 36/6.5/FP AL	565253	20	3	36	62	6.5	M6	125 x Clasps, 125 x adjustment screw, 250 x U-fixation, 250 x fixation screw	1
FHC 20x3 36/9/FP AL	565254	20	3	36	62	9	M6	125 x Clasps, 125 x adjustment screw, 250 x U-fixation, 250 x fixation screw	1
FHC 20x3 60/6.5/FP AL	547542	20	3	60	62	6.5	M6	100 x Clasps, 100 x adjustment screw, 200 x U-fixation, 200 x fixation screw	1
FHC 20x3 60/9/FP AL	547544	20	3	60	62	9	M6	100 x Clasps, 100 x adjustment screw, 200 x U-fixation, 200 x fixation screw	1
FHC 20x3 80/6.5/FP AL	565255	20	3	80	62	6.5	M6	50 x Clasps, 50 x adjustment screw, 100 x U-fixation, 100 x fixation screw	1
FHC 20x3 80/9/FP AL	565256	20	3	80	62	9	M6	50 x Clasps, 50 x adjustment screw, 100 x U-fixation, 100 x fixation screw	1
FHC 20x2 36/6.5/SP AL	545579	20	2	36	62	6.5	–	125 x Clasps	1
FHC 20x2 36/9/SP AL	565243	20	2	36	62	9	–	125 x Clasps	1
FHC 20x2 60/6.5/SP AL	547533	20	2	60	62	6.5	–	100 x Clasps	1
FHC 20x2 60/9/SP AL	547537	20	2	60	62	9	–	100 x Clasps	1
FHC 20x2 80/6.5/SP AL	565244	20	2	80	62	6.5	–	50 x Clasps	1
FHC 20x2 80/9/SP AL	565245	20	2	80	62	9	–	50 x Clasps	1
FHC 20x3 36/6.5/SP AL	565249	20	3	36	62	6.5	–	125 x Clasps	1
FHC 20x3 36/9/SP AL	565250	20	3	36	62	9	–	125 x Clasps	1
FHC 20x3 60/6.5/SP AL	547543	20	3	60	62	6.5	–	50 x Clasps	1
FHC 20x3 60/9/SP AL	547545	20	3	60	62	9	–	100 x Clasps	1
FHC 20x3 80/6.5/SP AL	565251	20	3	80	62	6.5	–	50 x Clasps	1
FHC 20x3 80/9/SP AL	565252	20	3	80	62	9	–	50 x Clasps	1

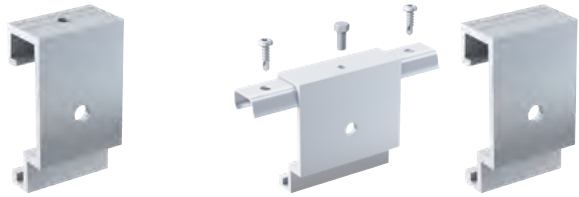


FHC FP

FHC SP

Clasps FHC 30, ATK103

Horizontal clasps FHC 30 fixed-point FP & sliding-point SP Aluminium



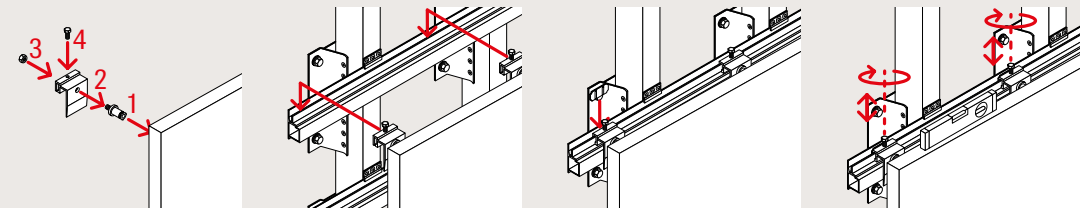
FHC FP

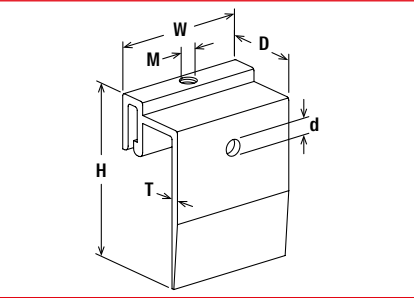
FHC FP set

FHC SP

		Depth	Thick-ness	Width	Height	Dimen-sions	Thread	Contents	Sales unit
	Item no.	D [mm]	T [mm]	W [mm]	H [mm]	d [mm]	M		[pcs]
Item									
FHC 30x2 36/6.5/FP AL	548010	30	2	36	62	6.5	M5	125 x Clasps, 125 x adjustment screw, 250 x U-fixation, 250 x fixation screw	1
FHC 30x2 36/9/FP AL	548012	30	2	36	62	9	M5	125 x Clasps, 125 x adjustment screw, 250 x U-fixation, 250 x fixation screw	1
FHC 30x2 60/6.5/FP AL	547538	30	2	60	62	6.5	M5	100 x Clasps, 100 x adjustment screw, 200 x U-fixation, 200 x fixation screw	1
FHC 30x2 60/9/FP AL	547540	30	2	60	62	9	M5	100 x Clasps, 100 x adjustment screw, 200 x U-fixation, 200 x fixation screw	1
FHC 30x2 80/6.5/FP AL	548025	30	2	80	62	6.5	M5	50 x Clasps, 50 x adjustment screw, 100 x U-fixation, 100 x fixation screw	1
FHC 30x2 80/9/FP AL	548026	30	2	80	62	9	M5	50 x Clasps, 50 x adjustment screw, 100 x U-fixation, 100 x fixation screw	1
FHC 30x3 36/6.5/FP AL	548015	30	3	36	62	6.5	M6	125 x Clasps, 125 x adjustment screw, 250 x U-fixation, 250 x fixation screw	1
FHC 30x3 36/9/FP AL	548019	30	3	36	62	9	M6	125 x Clasps, 125 x adjustment screw, 250 x U-fixation, 250 x fixation screw	1
FHC 30x3 60/6.5/FP AL	547180	30	3	60	62	6.5	M6	100 x Clasps, 100 x adjustment screw, 200 x U-fixation, 200 x fixation screw	1
FHC 30x3 60/9/FP AL	547546	30	3	60	62	9	M6	100 x Clasps, 100 x adjustment screw, 200 x U-fixation, 200 x fixation screw	1
FHC 30x3 80/6.5/FP AL	548032	30	3	80	62	6.5	M6	50 x Clasps, 50 x adjustment screw, 100 x U-fixation, 100 x fixation screw	1
FHC 30x3 80/9/FP AL	548033	30	3	80	62	9	M6	50 x Clasps, 50 x adjustment screw, 100 x U-fixation, 100 x fixation screw	1
FHC 30x2 36/6.5/SP AL	548288	30	2	36	62	6.5	–	125 x Clasps	1
FHC 30x2 36/9/SP AL	548289	30	2	36	62	9	–	125 x Clasps	1
FHC 30x2 60/6.5/SP AL	547539	30	2	60	62	6.5	–	100 x Clasps	1
FHC 30x2 60/9/SP AL	547541	30	2	60	62	9	–	100 x Clasps	1
FHC 30x2 80/6.5/SP AL	548020	30	2	80	62	6.5	–	50 x Clasps	1
FHC 30x2 80/9/SP AL	548021	30	2	80	62	9	–	50 x Clasps	1
FHC 30x3 36/6.5/SP AL	548013	30	3	36	62	6.5	–	125 x Clasps	1
FHC 30x3 36/9/SP AL	548014	30	3	36	62	9	–	125 x Clasps	1
FHC 30x3 60/6.5/SP AL	547181	30	3	60	62	6.5	–	100 x Clasps	1
FHC 30x3 60/9/SP AL	547550	30	3	60	62	9	–	50 x Clasps	1
FHC 30x3 80/6.5/SP AL	548027	30	3	80	62	6.5	–	50 x Clasps	1
FHC 30x3 80/9/SP AL	548031	30	3	80	62	9	–	50 x Clasps	1

Installation clasps FHC SystemOne BS





Clasps FHC SystemOne BS

Horizontal clasps SystemOne BS fixed-/ sliding point F-SP Aluminium



FHC SystemOne BS

Item	Item no.	Depth D [mm]	Thickness T [mm]	Width W [mm]	Height H [mm]	Dimensions d [mm]	Thread M	Sales unit [pcs]
FHC 30x3 50/6/F-SP AL BS	048904	30	3	50	65	6	M6	250
FHC 30x3 50/8/F-SP AL BS	049238	30	3	50	65	8	M8	250
FHC 30x3 100/6/F-SP AL BS	091536	30	3	100	65	6	M6	125
FHC 30x3 100/8/F-SP AL BS	078585	30	3	100	65	8	M8	125
FHC 30x3 150/8/F-SP AL BS	078587	30	3	150	65	8	M8	100

To create a fixed point, the ES-BS adjusting screw (mat. no. 521673) and Fixit (mat. no. 48905) is required. For accessories see Chapter 10 „Installation and Accessories“.

Horizontal cassette system ATK106SZ20

For horizontal load transfer in cassette systems for rear-ventilated rainscreen façades.



System illustration FUH AL with ATK100 + ATK106SZ20 for metal cassettes

Applications

- As horizontal profiles for the ATK106SZ20 subframe system for ventilated rain-screen façades with metal cassettes.

Advantages

- Horizontal load transfer of the impacting loads and transfer to the vertical level
- Geometric coordination

Properties

- Aluminium (e. g. EN AW 6063, 6061)

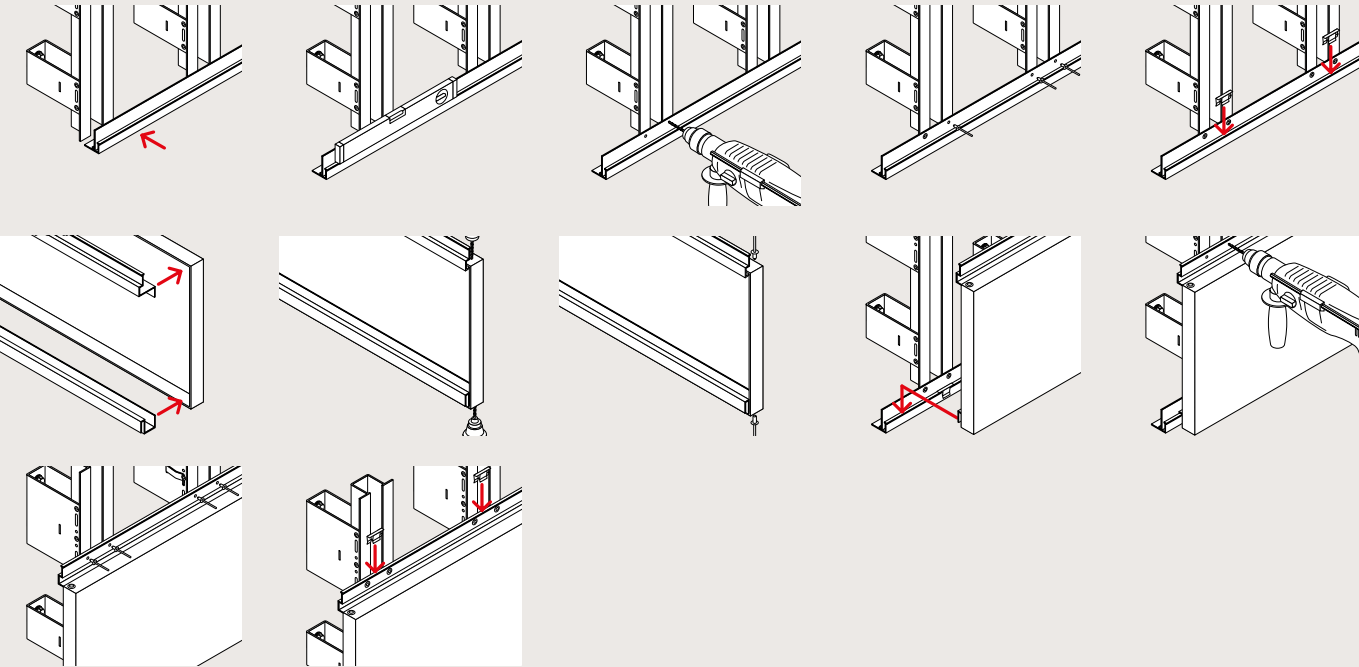
Functioning

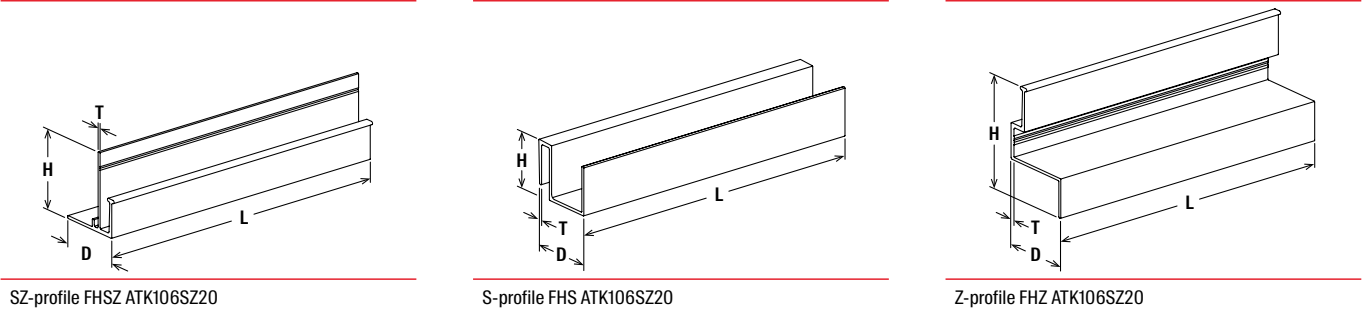
- Optimized horizontal load transfer by transferring it to the vertical profiles.
- The coordinated geometries of the horizontal profiles in the system enable quick and easy installation of the metal cassettes.

Certificates / Features



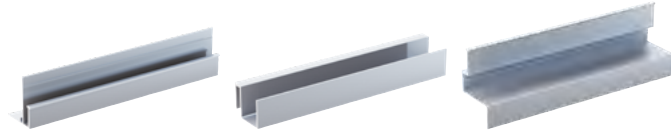
Installation horizontal cassette system profiles FHS / FHZ / FHSZ ATK106SZ20





Cassette system profiles ATK106SZ20

Horizontal profiles for cassette system ATK106SZ20



SZ-profile FHSZ ATK106SZ20 S-profile FHS ATK106SZ20 Z-profile FHZ ATK106SZ20

		Depth D [mm]	Thickness T [mm]	Height H [mm]	Length L [mm]	Sales unit [pcs]
Item	Item no.					
FHSZ-profile 40x1,8 AL, 6M	565355	40	1.8	50	6,000	1
FHS-profile 40,5x1,8 AL, 6M	565354	40.5	1.8	34.5	6,000	1
FHZ-profile 46x1,8 AL, 6M	565353	46	1.8	71.7	6,000	1



7

Undercut anchors FZP II

FZP II FOR NATURAL STONE

Product nomenclature	125	
Selection based on materials	127	
Zykon panel anchors FZP II R	130	
Zykon panel anchors FZP II Carbon	132	
Zykon panel anchors FZP II SO R/AL	134	
Zykon panel anchors FZP II SO Carbon	136	
Zykon panel anchors FZP SH	138	
Zykon panel anchors FZP II M8i	140	
Zykon panel anchors FZP II M6i	142	

FZP II T FOR THIN FAÇADE PANELS

Zykon panel anchors FZP II T PA	144	
Zykon panel anchors FZP II T PA Tergo+	146	
Zykon panel anchors FZP II T D40 PA	148	

FZP G FOR GLASS

Zykon glass point fixings FZP G Z ESG	150	
Zykon glass point fixings FZP G Z VSG	152	

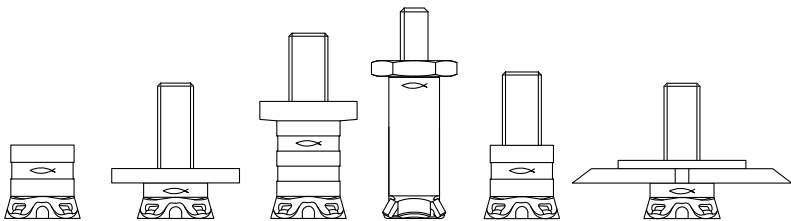
30 Hudson Yards - New York City - USA

Undercut anchors FZP II.

The fischer zykon panel anchors FZP II for concealed fixing of façade panels on ventilated rainscreen façades.

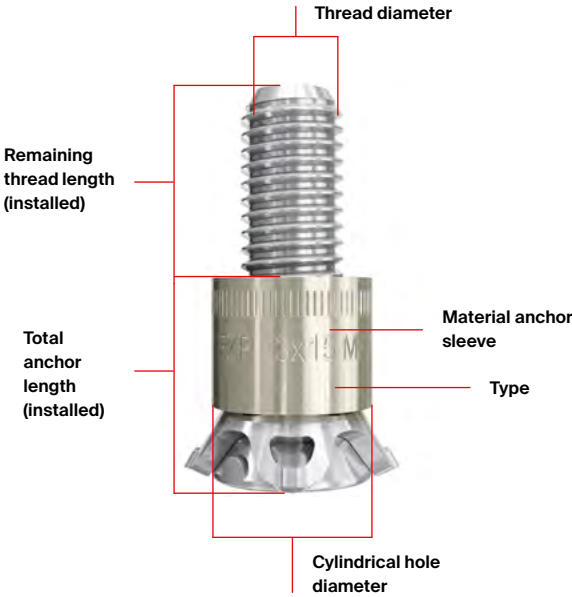
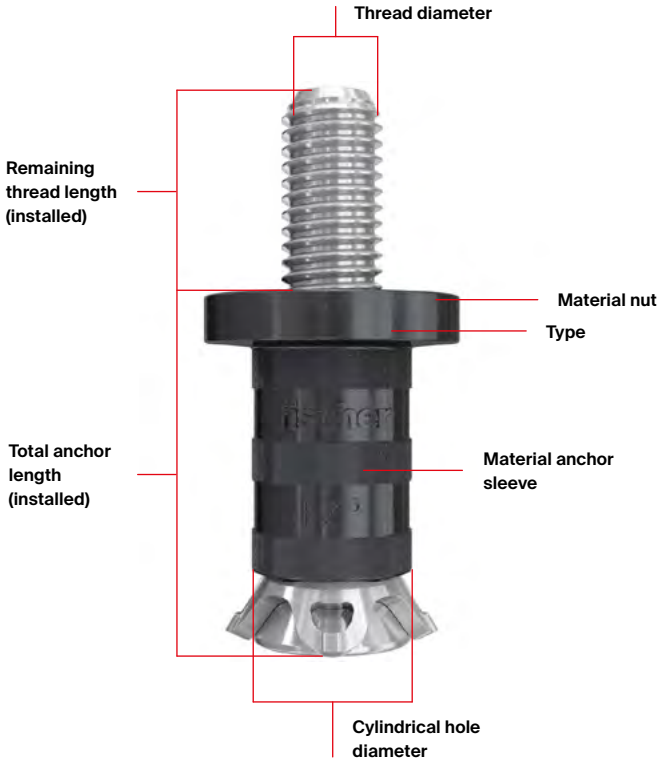
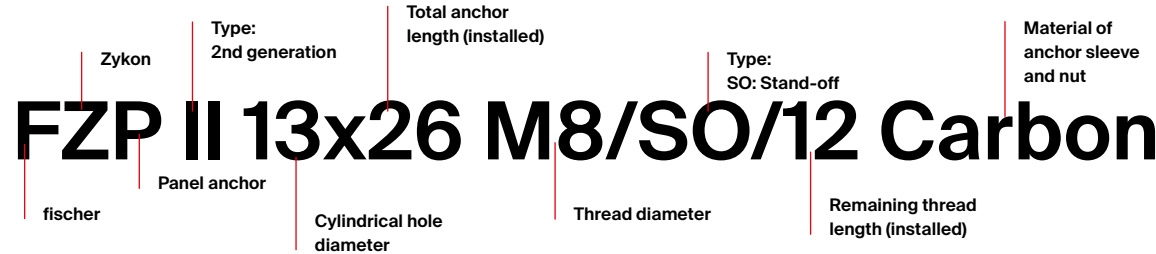
The Zykon panel anchors FZP II enable the concealed fixing of façade panels in ventilated rainscreen façades. They ensure a inter-locking and therefore completely stress-free fixing in a conical drill hole. By attaching the undercut anchors to the back of the panels, the fixing solution is not visible from the façade side and is therefore visually appealing.

Compared with conventional fixings, this technology provides a multiple of the loads. Which again allows smaller panel thicknesses and larger panel formats due to smaller panel bending moments. In addition, it always offers the right anchor for many different façade materials and applications.

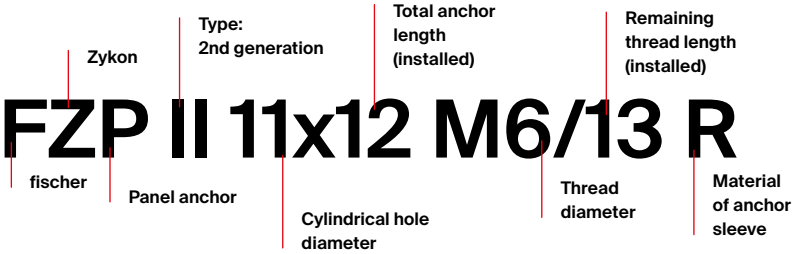


Product nomenclature.

FZP II 13x26 M8/SO/12 Carbon



FZP II 11x12 M6/13 R



Product nomenclature.

7

Zykon

fischer

Panel anchor

Type:
2nd generation

Total anchor length
(installed)

Cylindrical hole
diameter

Thread
diameter

Type:
T: For thin panel
materials

Remaining
thread length
installed

Washer
diameter

Washer
material

FZP II 11x6 M6/T/9 D40 PA

Thread diameter

Remaining thread length (installed)

Washer material

Total anchor length (installed)

Cylindrical diameter

Washer diameter

Zykon

fischer

Panel anchor

Total anchor length
(installed)

Remaining thread length
(installed)

Cylindrical hole
diameter

Thread
diameter

Glas anchor

FZP 15x6 M8/11 G-Z

Thread diameter

Remaining thread length (installed)

Type

Total anchor length (installed)

Cylindrical diameter

Selection based on materials.

7

Natural stone and artificial stone
e.g. Limestone, Sandstone, Granite, UHPC, GFRC
≥ 20 mm panel thickness

Ceramics / Porcelain
e.g. Cosentino Dekton, Atlas Concorde, Mirage, Laminam, Royal Mosa
≥ 8 mm panel thickness

Thin panel materials
e.g. fiber cement & HPL, Equitone, Swisspearl, James Hardie, Fundermax, Trespa
≥ 8 mm panel thickness

Glass
e.g. single layered or laminated safety glass, glass ceramics, Magna
≥ 10 mm panel thickness

FZP II A4 FZP II Carbon

FZP II 11x5 T D40 PA
FZP II 11x6 T D40 PA
FZP II 11x8 T D40 PA

FZP II 11x5 T PA FZP II 11x6 T PA
FZP II 11x8 T PA FZP II 11x10 T PA

FZP II SO A4 FZP II SO Carbon

FZP II I FZP II SH

FZP G-Z ESG
FZG G-Z VSG

The secret of the concealed fixing solution.

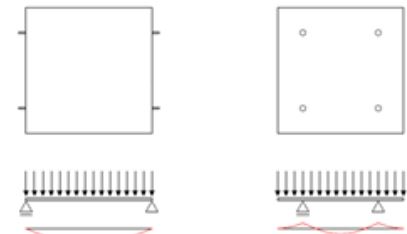
The fischer façade system opens up the way for the design of advanced, complex façades – and all this in an easy and economic way. The reason lies in the system itself – FZP II, the fischer Zykon panel anchor, which is an undercut anchor and therefore stress-free.

The FZP II is installed into pre-drilled undercut holes. Internal reaction forces between anchor and material result not before the impact of external forces.



Undercut hole and behaviour of the Zykon panel anchor FZP II with and without external force

The undercut anchors are installed on the back of the panel, not visible from the front side of the façade and cause a clean joint pattern. This also requires the possibility of optimized positioning of the anchor. As a result, the bending strength in the panel is reduced by approximately 50% compared to conventional systems. In contrast to traditional fixings, this technology offers significantly higher load capacity, enables thinner panels and allows for larger panel formats due to reduced bending moments”



Optimization of the bending moment of the façade panel; left diagram shows clamp or pin fixing, right diagram shows undercut fixing

Materials such as natural stone, ceramics, artificial stone, HPL, fibre cement, solid surface panels and also glass (ESG = toughened safety glass and VSG = laminated safety glass) can be fixed with the fischer FZP II undercut anchors in combination with the fischer subframe systems, providing architects with a wide range of scope of design.

The perfectly matching fischer façade systems with the undercut anchors, fitting subframe and advanced drilling technology pays off on the construction site: Installation is simple, fast and independent of the weather. The construction time is shortened - and therefore the costs are also reduced.

Earthquake-proof façade systems.

The FZP II also proves its worth in situations with the highest demands on the fixing system . Earthquake tests in Shanghai, China, impressively confirmed the outstanding performance of the undercut anchor. The various façade materials mounted with the FZP II withstood accelerations of up to 9.5 m/s2.

This corresponds to forces that cause considerable damage and destruction even in modern buildings designed for earthquakes. These results have been confirmed by repeated tests in Italy and France.

Various anchor types and installation methods.

There are two different installation methods for the fischer Zykon panel anchor FZP II:

Flush installation

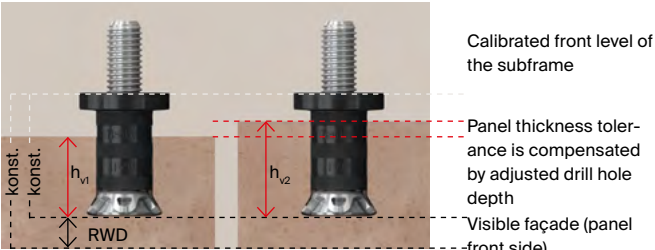
For flush installation, the installed anchor is flush with the back of the panel. The back of the panel is used as a reference for the constant drill hole depth.



Flush installation of a fischer Zykon panel anchor FZP II.

Stand-off installation

Thanks to the stand-off installation, the panel thickness tolerances that occur with natural stone panels can be compensated. With this type of installation the the constant distance between the bottom of the drill hole and the front side of the panel, the remaining wall thickness (RWD), are used as the reference dimension. As a result, the drill hole depth becomes variable. Thanks to the use of the stand-off anchors the panel thickness tolerances can thus be compensated. This type of fixing is used, for example, for façade panels with panel thickness tolerances.



Stand-off installation of a fischer Zykon panel anchor FZP II SO.

Zykon panel anchors FZP II R

The universal undercut anchor made of stainless steel for natural stone or artificial concrete panels.



Cross-section of FZP II R flush installation in natural stone



Façade cross-section FLH AL with ATK100 + 103 and FZP II R in natural stone

Applications

- Exterior façades
- Interior façades
- Façade reveals
- Natural stone heating systems

Certificates / Features



Advantages

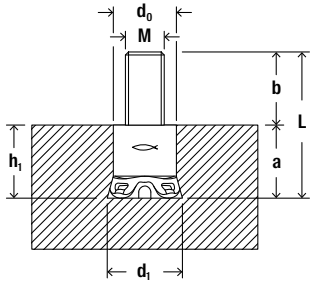
- The flush-mounting technology of the undercut anchor allows an easy, economical handling of reveals.
- The matching shape of the undercut anchor creates a inter-locking and stress-free fixing in the conical undercutted drill hole.
- The fixing is not externally visible, creating a visually appealing façade surface.
- Setting the anchor using undercut technology allows the user to select the best structural position in the façade panel. This significantly reduces the bending moment of the panel.
- The anchor allows higher failure loads compared to common systems.

Functioning

- The drill hole is drilled with an absolute anchoring depth.
- Flush installation of the anchor.
- Wet diamond drilling: first cylindrical, then conical - to create the undercut.
- #Inserting the undercut anchor in the cylindrical-conical undercut hole
- Expanding the undercut anchor by „pressing down“ the washer using the setting tools
- Stress-free and geometrical inter-locking fixing

Building materials

- Natural stone (>20mm)
- Artificial concrete panels



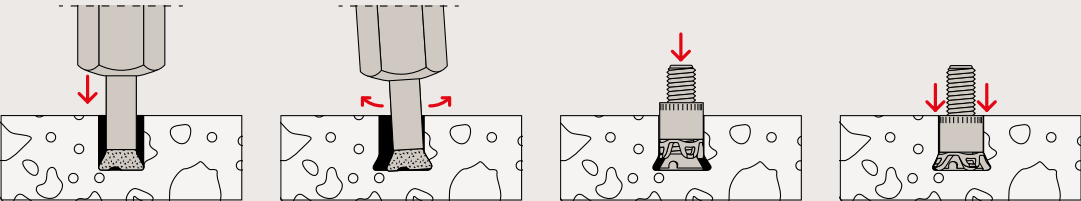
Zykon Panel anchor FZP II R

Flush undercut anchors - stainless steel sleeve



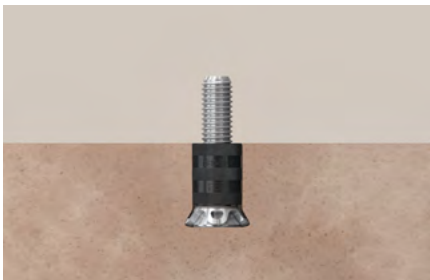
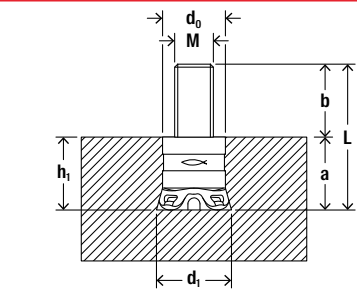
Item	Item no.	Approval		Min. panel thickness [mm]	Embedment depth h ₁ [mm]	Total length L [mm]	Installed an-chor length a [mm]	Remaining thread length b [mm]	Thread M	Cylindrical diameter d ₀ [mm]	Undercutdia-meter d ₁ [mm]	Sales unit [pcs]
		ETA	DIBt									
FZP II 11x12 M6/13 R	512131	●	●	20	12	25	12	13	M6	11	13.5	250
FZP II 11x12 M6/18 R	512133	●	●	20	12	30	12	18	M6	11	13.5	250
FZP II 11x15 M6/10 R	512134	●	●	30	15	25	15	10	M6	11	13.5	250
FZP II 11x15 M6/18 R	512135	●	●	30	15	51	15	18	M6	11	13.5	250
FZP II 13x15 M8/10 R	512136	●	●	30	15	25	15	10	M8	13	15.5	250
FZP II 13x15 M8/15 R	512137	●	●	30	15	30	15	15	M8	13	15.5	250
FZP II 13x15 M8/23 R	512138	●	●	30	15	38	15	23	M8	13	15.5	250
FZP II 13x15 M8/28 R	512139	●	●	30	15	43	15	28	M8	13	15.5	250
FZP II 13x17 M8/17 R	512140	●	●	30	17	34	17	17	M8	13	15.5	250
FZP II 13x21 M8/9 R	512141	●	●	35	21	30	21	9	M8	13	15.5	250
FZP II 13x21 M8/17 R	512142	●	●	35	21	38	21	17	M8	13	15.5	250
FZP II 13x21 M8/22 R	512143	●	●	35	21	43	21	22	M8	13	15.5	250

Installation FZP II R - flush



Zykon panel anchors FZP II Carbon

The universal undercut anchor with a carbon fibre reinforced polyamid sleeve for natural stone or artificial concrete panels.



Cross-section of FZP II Carbon flush installation in natural stone



Façade cross-section FLH AL with ATK 100 + 103 and FZP II Carbon in natural stone

Applications

- Exterior façades
- Interior façades
- Façade reveals
- Natural stone heating systems

Certificates / Features



Advantages

- The flush-mounting technology of the undercut anchor allows an easy, economical handling of reveals.
- The matching shape of the undercut anchor creates a inter-locking and stress-free fixing in the conical undercut drill hole.
- The fixing is not externally visible, creating a visually appealing façade surface.
- Setting the anchor using undercut technology allows the user to select the best structural position in the façade panel. This significantly reduces the bending moment of the panel.
- The anchor allows higher failure loads compared to common systems.

Functioning

- The drill hole is drilled with an absolute anchoring depth.
- Flush installation of the anchor.
- Wet diamond drilling: first cylindrical, then conical - to create the undercut.
- #Inserting the undercut anchor in the cylindrical-conical undercut hole
- Expanding the undercut anchor by „pressing down“ the washer using the setting tools
- Stress-free and geometrical inter-locking fixing

Building materials

- Natural stone (>20mm)
- Artificial concrete panels

Zykon Panel anchor FZP II Carbon

Flush undercut anchors - carbon fibre reinforced polyamid sleeve

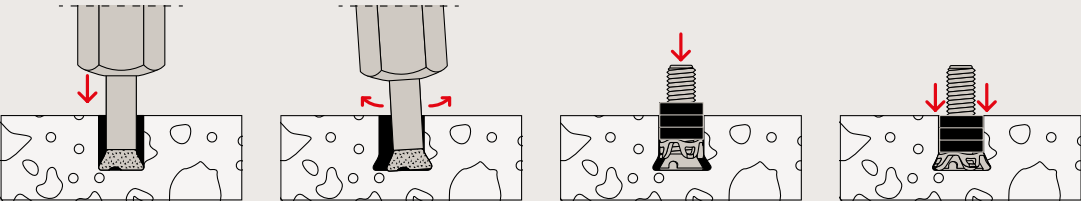


FZP II Carbon

FZP II Carbon expanded

Item	Item no.	Approval		Min. panel thickness [mm]	Embedment depth h _i [mm]	Total length L [mm]	Installed anchor length a [mm]	Remaining thread length b [mm]	Thread M	Cylindrical diameter d ₀ [mm]	Undercut diameter d ₁ [mm]	Sales unit [pcs]
		ETA	DIBt									
FZP II 11x12 M6/13 Carbon	511966	●	●	20	12	25	12	13	M6	11	13.5	250
FZP II 11x12 M6/18 Carbon	511967	●	●	20	12	30	12	18	M6	11	13.5	250
FZP II 11x15 M6/10 Carbon	511968	●	●	30	15	25	15	10	M6	11	13.5	250
FZP II 11x15 M8/18 Carbon	511969	●	●	30	15	33	15	18	M8	11	13.5	250
FZP II 13x15 M8/10 Carbon	511970	●	●	30	15	25	15	10	M8	13	15.5	250
FZP II 13x15 M8/15 Carbon	511971	●	●	30	15	30	15	15	M8	13	15.5	250
FZP II 13x15 M8/23 Carbon	511972	●	●	30	15	38	15	23	M8	13	15.5	250
FZP II 13x15 M8/28 Carbon	511973	●	●	30	15	43	15	28	M8	13	15.5	250
FZP II 13x17 M8/17 Carbon	511980	●	●	30	17	34	17	17	M8	13	15.5	250
FZP II 13x21 M8/9 Carbon	511974	●	●	35	21	30	21	9	M8	13	15.5	250
FZP II 13x21 M8/17 Carbon	511975	●	●	35	21	38	21	17	M8	13	15.5	250
FZP II 13x21 M8/22 Carbon	511976	●	●	35	21	43	21	22	M8	13	15.5	250

Installation FZP II Carbon - flush

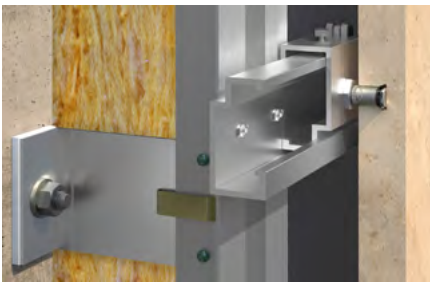


Zykon panel anchors FZP II SO R/AL

The adjusting undercut anchor made of stainless steel for natural stone or artificial concrete panels.



Cross-section of FZP II R/AL stand-off installation in natural stone



Façade cross-section FLH AL with ATK100 + 103 and FZP II SO R/AL in natural stone

Applications

- Exterior façades with high aesthetic requirements
- Interior façades with high aesthetic requirements

Certificates / Features



Advantages

- Using a constant remaining wall thickness as a reference value when drilling holes allows users to compensate panel thickness tolerances.
- The matching shape of the undercut anchor creates an inter-locking and stress-free fixing in the conical undercut drill hole.
- The fixing is not externally visible, creating a visually appealing façade surface.
- Setting the anchor using undercut technology allows the user to select the best structural position in the façade panel. This significantly reduces the bending moment of the panel.
- The anchor allows higher failure loads compared to common systems.

Properties

- Material anchor: stainless steel
- Material nut: aluminium

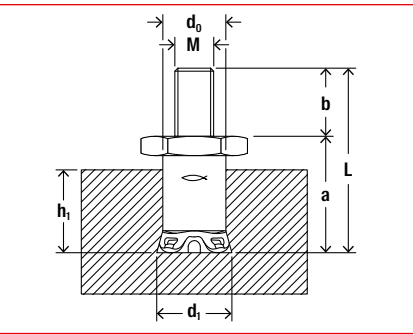
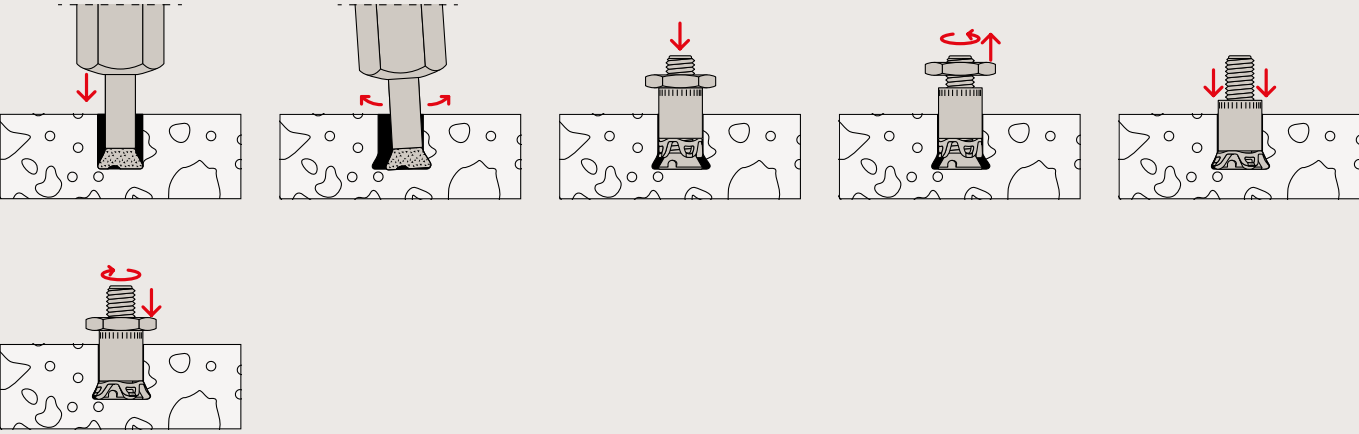
Functioning

- The hole is drilled to a constant reference dimension for the remaining wall thickness (RWT).
- The anchor is set through stand-off installation.
- The compensation of panel thickness tolerances results in a completely flat façade surface.
- Wet diamond drilling: first cylindrical, then conical - to create the undercut.
- #Inserting the undercut anchor in the cylindrical-conical undercut hole
- Expanding the undercut anchor by „pressing down“ the washer using the setting tools
- Stress-free and geometrical inter-locking fixing

Building materials

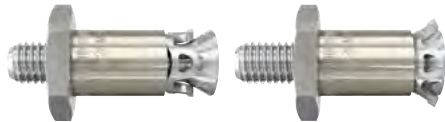
- Natural stone (>20mm)
- Artificial concrete panels

Installation FZP II SO R/AL - stand-off



Zykon Panel anchor FZP II SO R/AL

Stand-off undercut anchors - stainless steel sleeve and aluminium nut



Item	Item no.	Approval		Min. panel thickness	Embedment depth	Total length	Installed anchor length	Remaining thread length	Thread	Cylindrical diameter	Undercut-diameter	Sales unit
		ETA	DIBt	[mm]	h ₁ [mm]	L [mm]	a [mm]	b [mm]	M	d ₀ [mm]	d ₁ [mm]	[pcs]
FZP II 11x21 M6/SO/9 R/AL	512144	●	●	20	12 - 16	30	21	9	M6	11	13.5	250
FZP II 11x21 M6/SO/12 R/AL	512145	●	●	20	12 - 16	33	21	12	M6	11	13.5	250
FZP II 13x26 M8/SO/17 R/AL	512146	●	●	30	15 - 21	43	26	17	M8	13	15.5	250
FZP II 13x26 M8/SO/12 R/AL	538088	●	●	30	15 - 21	38	26	12	M8	13	15.5	250
FZP II 13x30 M8/SO/13 R/AL	513226	●	●	30	15 - 25	43	30	13	M8	13	15.5	250

Zykon panel anchors FZP II SO Carbon

The adjusting undercut anchor with a carbon fibre-reinforced polyamid sleeve for natural stone or artificial concrete panels.



Cross-section of FZP II Carbon stand-off installation in natural stone



Façade cross-section FLH AL with ATK100 + 103 and FZP II SO Carbon in natural stone

Applications

- Exterior façades with high aesthetic requirements
- Interior façades with high aesthetic requirements

Certificates / Features



ETA-11/0145, in natural stone
acc. EN 1469

Advantages

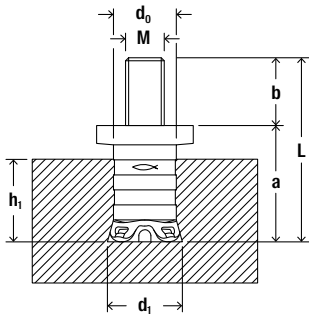
- Using a constant remaining wall thickness as a reference value when drilling holes allows users to compensate panel thickness tolerances.
- The matching shape of the undercut anchor creates an inter-locking and stress-free fixing in the conical undercut drill hole.
- The fixing is not externally visible, creating a visually appealing façade surface.
- Setting the anchor using undercut technology allows the user to select the best structural position in the façade panel. This significantly reduces the bending moment of the panel.
- The anchor allows higher failure loads compared to common systems.

Functioning

- The hole is drilled to a constant reference dimension for the remaining wall thickness (RWT).
- The anchor is set through stand-off installation.
- The compensation of panel thickness tolerances results in a completely flat façade surface.
- Wet diamond drilling: first cylindrical, then conical - to create the undercut.
- #Inserting the undercut anchor in the cylindrical-conical undercut hole
- Expanding the undercut anchor by „pressing down“ the washer using the setting tools
- Stress-free and geometrical inter-locking fixing

Building materials

- Natural stone (>20mm)
- Artificial concrete panels



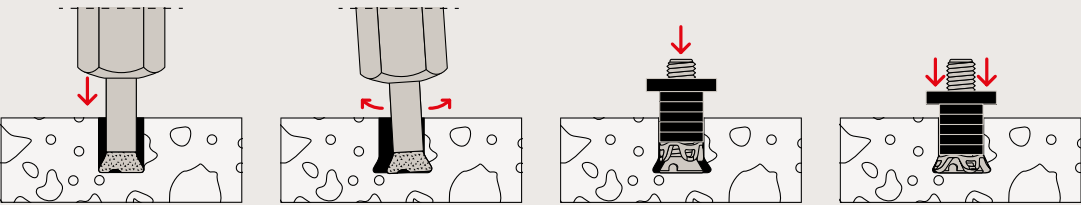
Zykon Panel anchor FZP II SO Carbon

Stand-off undercut anchors - carbon fibre reinforced polyamid sleeve



Item	Item no.	Approval		Min. panel thickness [mm]	Embedment depth h ₁ [mm]	Total length L [mm]	Installed anchor length a [mm]	Remaining thread length b [mm]	Thread M	Cylindrical diameter d ₀ [mm]	Undercut-diameter d ₁ [mm]	Sales unit [pcs]
		ETA	DIBt									
FZP II 11x21 M6/SO/9 Carbon	511977	●	●	20	12 - 16	30	21	9	M6	11	13.5	250
FZP II 11x21 M6/SO/12 Carbon	511978	●	●	20	12 - 16	33	21	12	M6	11	13.5	250
FZP II 13x26 M8/SO/12 Carbon	538087	●	●	30	15 - 21	38	26	12	M8	13	15.5	250
FZP II 13x26 M8/SO/17 Carbon	511979	●	●	30	15 - 21	43	26	17	M8	13	15.5	250

Installation FZP II SO Carbon - stand-off



Zykon panel anchors FZP SH R

The undercut anchor for soft natural stone façade panels.



Applications

- Exterior façades with heavy façade panels made of selected, soft natural stone (stone group IV - sedimentary rock)
- Interior façades with heavy façade panels made of selected, soft natural stone (stone group IV - sedimentary rock)

Certificates / Features



Advantages

- Using a constant remaining wall thickness as a reference value when drilling holes allows users to compensate panel thickness tolerances.
- The flush-mounted anchor allows for easy, economical construction of reveals.
- Depending on the application, the user can choose between flush installation with an absolute anchoring depth, for instance for reveal panels, and stand-off installation technology with a constant remaining wall thickness that serves as a reference dimension to compensate panel thickness tolerances.
- There is no protruding external thread, allowing a space-saving transportation of pre-fabricated façade panels.
- The matching shape of the undercut anchor creates an inter-locking and stress-free fixing in the conical undercut drill hole.
- The fixing is not externally visible, creating a visually appealing façade surface.
- Setting the anchor using undercut technology allows the user to select the best structural position in the façade panel. This significantly reduces the bending moment of the panel.
- The anchor allows higher failure loads compared to common systems.

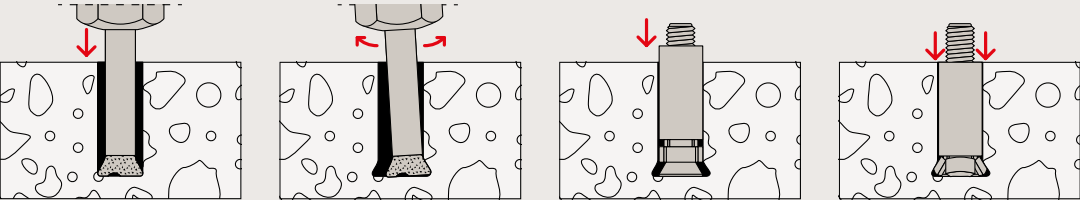
Functioning

- The hole is either drilled to a constant reference dimension for the remaining wall thickness (RWT) or with an absolute anchoring depth.
- The anchor can be installed flush or stand-off.
- The compensation of panel thickness tolerances results in a completely flat façade surface.
- Wet diamond drilling: first cylindrical, then conical - to create the undercut.
- #Inserting the undercut anchor in the cylindrical-conical undercut hole
- Expanding the undercut anchor by „pressing down“ the washer using the setting tools
- Stress-free and geometrical inter-locking fixing

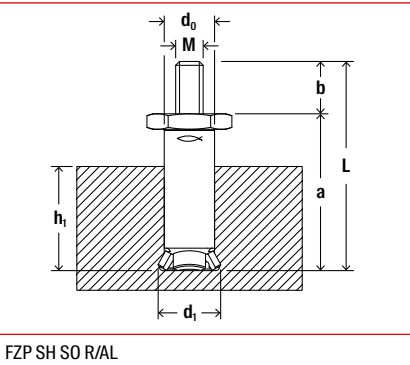
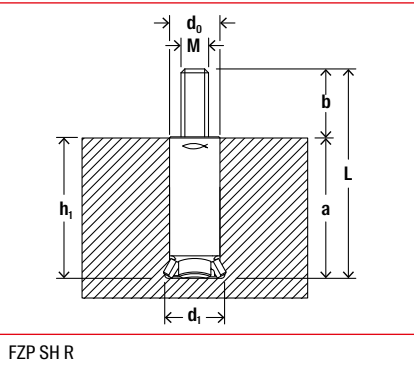
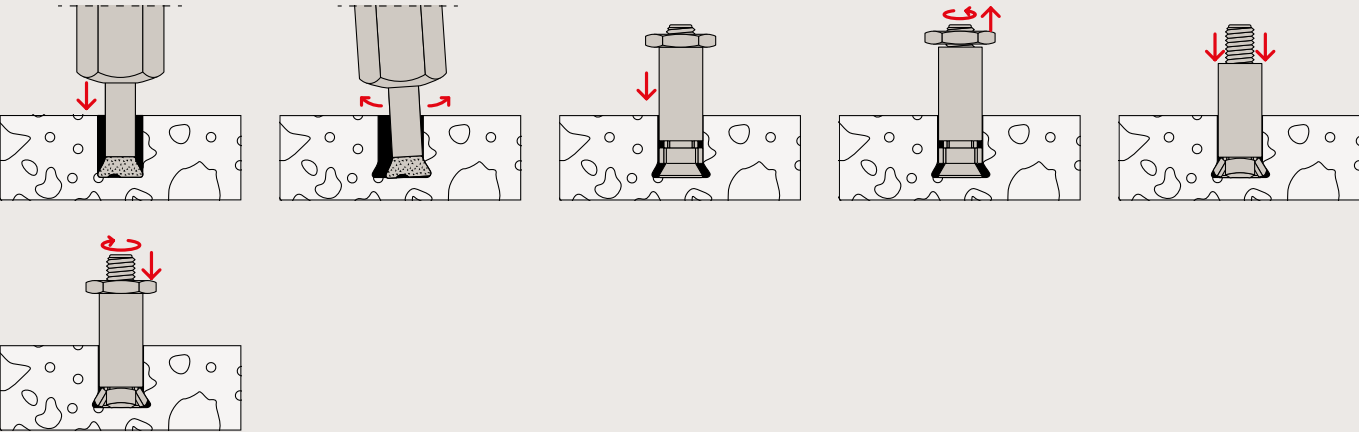
Building materials

- Building materials Natural stone (stone group IV) (> 50mm)

Installation FZP SH R - flush



Installation FZP SH R/AL - stand-off



Zykon Panel anchor FZP SH SO R/AL

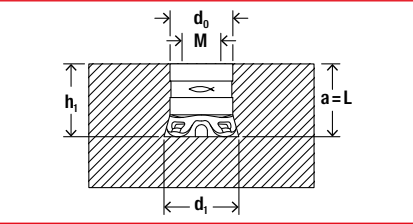
Flush or stand-off anchors for soft stones - stainless steel sleeve



Item	FZP SH R expanded Item no.	Min. panel thickness [mm]	Embedment depth h ₁ [mm]	Total length L [mm]	Installed anchor length a [mm]	Remaining thread length b [mm]	Thread M	Cylindrical diameter d ₀ [mm]	Undercut diameter d ₁ [mm]	Sales unit [pcs]
FZP 13x41 M8/23 SH R	521103	50	30	49	30	19	M8	13	17.3	50
FZP 13x41 M8/SO/19 SH R/AL	521104	50	30 - 36	64	41	23	M8	13	17.3	50

Zykon panel anchors FZP II M8i Carbon

The undercut anchor with an internal thread for M8 threaded screws and a carbon-fiber reinforced polyamid sleeve for natural stone or artificial concrete panels.



Cross-section of FZP II M8i Carbon internal threaded anchor flush installation in natural stone

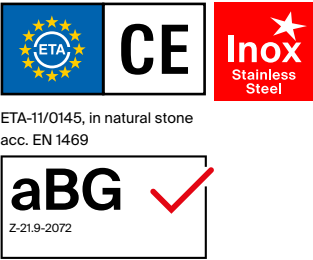


Façade cross-section FLH AL with ATK100 + 103 and FZP II M8i Carbon in natural stone

Applications

- Exterior façades
- Interior façades
- Façade reveals

Certificates / Features



Advantages

- The flush-mounted anchor allows for easy, economical construction of reveals.
- Depending on the application, the user can choose between flush installation with an absolute anchoring depth, for instance for reveal panels, and stand-off installation technology with a constant remaining wall thickness that serves as a reference dimension to compensate panel thickness tolerances.
- There is no protruding external thread, allowing a space-saving transportation of pre-fabricated façade panels.
- The matching shape of the undercut anchor creates an inter-locking and stress-free fixing in the conical undercut drill hole.
- The fixing is not externally visible, creating a visually appealing façade surface.
- Setting the anchor using undercut technology allows the user to select the best structural position in the façade panel. This significantly reduces the bending moment of the panel.
- The anchor allows higher failure loads compared to common systems.

Functioning

- The hole is either drilled to a constant reference dimension for the remaining wall thickness (RWT) or with an absolute anchoring depth.
- The anchor can be installed flush or stand-off.
- The compensation of panel thickness tolerances results in a completely flat façade surface.
- Wet diamond drilling: first cylindrical, then conical - to create the undercut.
- #Inserting the undercut anchor in the cylindrical-conical undercut hole
- Expanding the undercut anchor by „pressing down“ the washer using the setting tools
- Stress-free and geometrical inter-locking fixing

Building materials

- Natural stone (>20mm)
- Artificial concrete panels

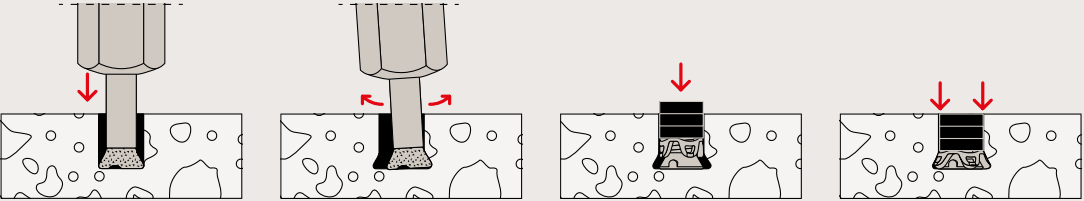
Zykon Panel anchor FZP II M8i

Internal thread panel anchors - glass fibre reinforced polyamid sleeve



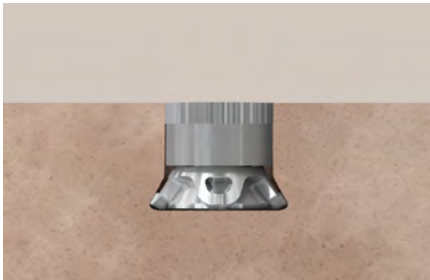
Item	Item no.	Approval		Min. panel thickness [mm]	Embedment depth h ₁ [mm]	Total length L [mm]	Installed anchor length a [mm]	Remaining thread length b [mm]	Thread M	Cylindrical diameter d ₀ [mm]	Undercut diameter d ₁ [mm]	Sales unit [pcs]
		ETA	DIBt									
FZP II 15x12 M8i Carbon	539478	●	●	20	12	12	12	0	M8	15	17.5	250
FZP II 15x15 M8i Carbon	539479	●	●	25	15	15	15	0	M8	15	17.5	250
FZP II 15x21 M8i Carbon	540298	●	●	35	21	21	21	0	M8	15	17.5	250

Installation FZP II M8i



Zykon panel anchors FZP II M6i PA

The undercut anchor with an internal thread for M6 threaded screws and polyamid sleeve natural stone or artificial concrete panels.



Cross-section of FZP II M6i PA internal threaded anchor flush installation in natural stone



Façade cross-section FLH AL with ATK100 + 103 and FZP II M6i PA in natural stone

Applications

- Indoor applications (such as wash basins, natural stone heating systems, ...)
- Exterior façades
- Interior façades
- Façade reveals

Certificates / Features



Advantages

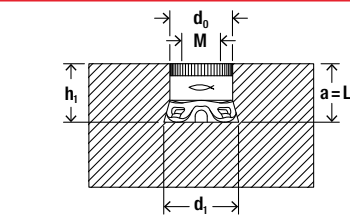
- The integrated internal thread allows panels to be pre-fabricated and transported securely.
- The matching shape of the undercut anchor creates a inter-locking and stress-free fixing in the conical undercutted drill hole.
- The fixing is not externally visible, creating a visually appealing façade surface.
- Setting the anchor using undercut technology allows the user to select the best structural position in the façade panel. This significantly reduces the bending moment of the panel.
- The anchor allows higher failure loads compared to common systems.

Functioning

- The hole is either drilled to a constant reference dimension for the remaining wall thickness (RWT) or with an absolute anchoring depth.
- The anchor can be installed flush or stand-off.
- The compensation of panel thickness tolerances results in a completely flat façade surface.
- Wet diamond drilling: first cylindrical, then conical - to create the undercut.
- #Inserting the undercut anchor in the cylindrical-conical undercut hole
- Expanding the undercut anchor by „pressing down“ the washer using the setting tools
- Stress-free and geometrical inter-locking fixing

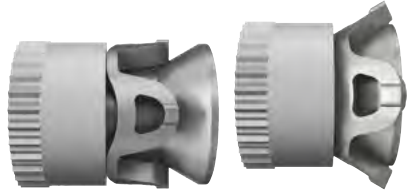
Building materials

- Natural stone (>20mm)



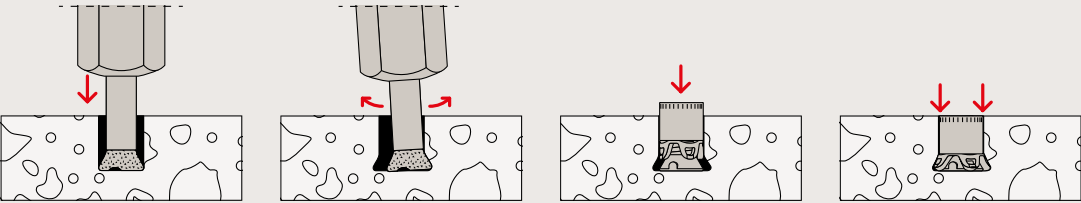
Zykon Panel anchor FZP II M6i PA

Internal thread panel anchors - polyamid sleeve



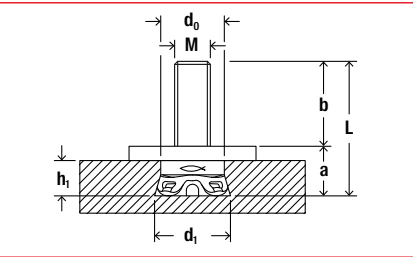
Item	Item no.	Min. panel thickness	Embedment depth	Total length	Installed anchor length	Remaining thread length	Thread	Cylindrical diameter	Undercut diameter	Sales unit
		[mm]	h ₁ [mm]	L [mm]	a [mm]	b [mm]	M	d ₀ [mm]	d ₁ [mm]	[pcs]
FZP II 13x12 M6i PA	512958	20	12	12	12	0	M6	13	15.5	250

Installation FZP II M6i

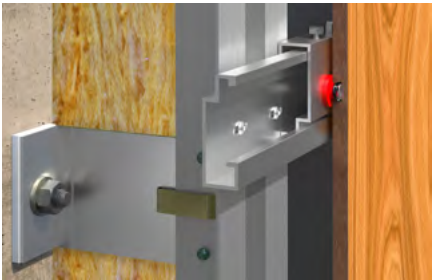


Zykon panel anchors FZP II T PA

The undercut anchor for thin façade panels, such as HPL and fibre cement.



Cross-section of FZP II T PA installation in HPL

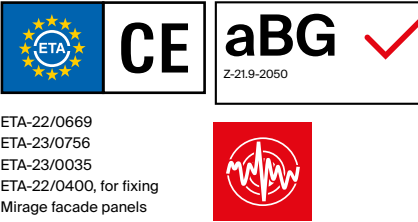


Façade cross-section FLH AL with ATK100 + 103 and FZP II T PA in HPL

Applications

- For high aesthetical requirements:
- The concealed fixing of thin façade panels on exterior and interior façade as well as reveal panels.

Certificates / Features



Advantages

- The short geometry of the anchor allows it to be used in thin panels starting from 8 mm thickness.
- The fixing is not externally visible, creating a visually appealing façade surface.
- The matching shape of the undercut anchor creates a inter-locking and stress-free fixing in the conical undercutted drill hole.
- Setting the anchor using undercut technology allows the user to select the best structural position in the façade panel. This significantly reduces the bending moment of the panel.
- The anchor allows higher failure loads compared to common systems.
- This anchor provides much better holding forces than commonly available systems which allows for the use of large format panels.

Functioning

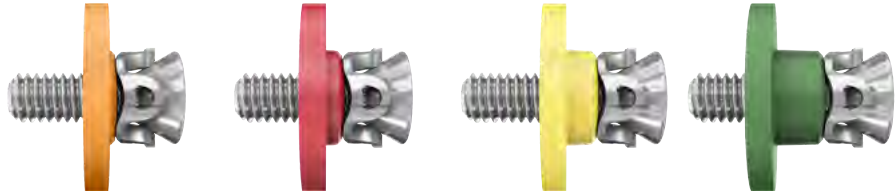
- dry drilling in ceramic
- the drill hole is drilled with an absolute anchoring depth
- flush installation of the anchor, the spacer washer will be in full contact with the surface of the material
- drilling: first cylindrical, then conical - to create the undercut.
- inserting the undercut anchor in the cylindrical-conical undercut hole
- expanding the undercut anchor by „pressing down“ the washer using the setting tools
- stress-free and geometrical inter-locking fixing

Building materials

- Fibre cement
- HPL panels
- Thin panel materials (≥ 8 mm)

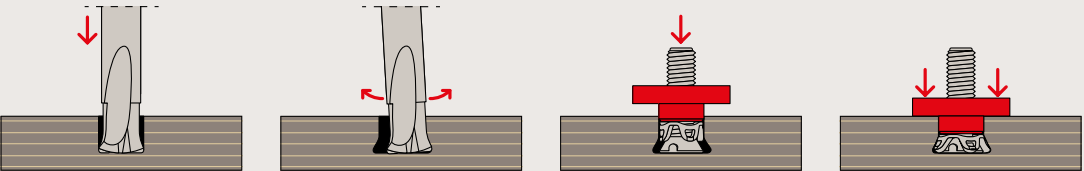
Zykon Panel anchor FZP II T PA

Thin panel material anchors - polaymid sleeve



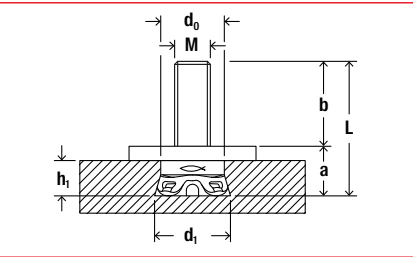
Item	Item no.	Approval		Min. panel thickness [mm]	Embedment depth h ₁ [mm]	Total length L [mm]	Installed anchor length a [mm]	Remaining thread length b [mm]	Thread M	Cylindrical diameter d ₀ [mm]	Undercut diameter d ₁ [mm]	Colour washer	Sales unit [pcs]
		ETA	DIBt										
FZP II 11x5 M6/T/11 PA	552888	●	–	8	5	18.5	7.5	11	M6	11	13.5	orange	250
FZP II 11x5 M6/T/13 PA	552889	●	●	8	5	20.5	7.5	13	M6	11	13.5	orange	250
FZP II 11x6 M6/T/10 PA	520365	●	–	8	6	18.5	8.5	10	M6	11	13.5	red	250
FZP II 11x8 M6/T/12 PA	520367	●	–	10	8	22.5	10.5	12	M6	11	13.5	yellow	250
FZP II 11x10 M6/T/9 PA	520369	●	–	12	10	21.5	12.5	9	M6	11	13.5	green	250

Installation FZP II T PA

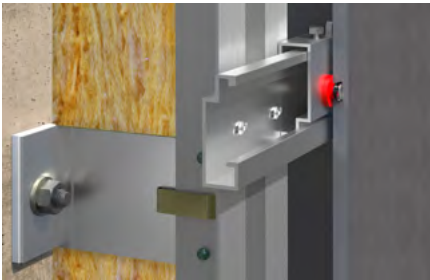


Zykon panel anchors FZP II T PA Tergo+

The undercut anchor for thin fibre cement façade panels by Equitone.



Cross-section of FZP II Tergo+ installation in fibre cement



Façade cross-section FLH AL with ATK100 + 103 and FZP II Tergo+ in fibre cement

Applications

- For high aesthetical requirements:
- The concealed fixing of thin façade panels on exterior and interior façade as well as reveal panels.

Certificates / Features



Advantages

- The short geometry of the anchor allows it to be used in thin panels starting from 8 mm thickness.
- The fixing is not externally visible, creating a visually appealing façade surface.
- The matching shape of the undercut anchor creates a inter-locking and stress-free fixing in the conical undercutted drill hole.
- Setting the anchor using undercut technology allows the user to select the best structural position in the façade panel. This significantly reduces the bending moment of the panel.
- The anchor allows higher failure loads compared to common systems.
- This anchor provides much better holding forces than commonly available systems which allows for the use of large format panels.

Functioning

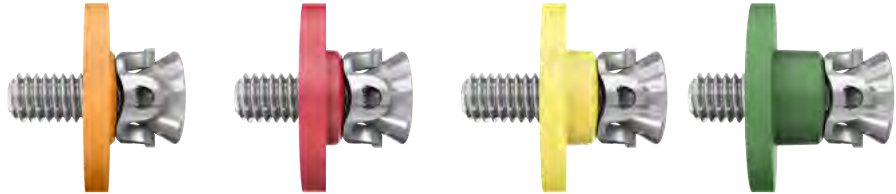
- dry drilling in fibre cement
- the drill hole is drilled with an absolute anchoring depth
- flush installation of the anchor, the spacer washer will be in full contact with the surface of the material.
- drilling: first cylindrical, then conical - to create the undercut.
- inserting the undercut anchor in the cylindrical-conical undercut hole
- expanding the undercut anchor by „pressing down“ the washer using the setting tools
- stress-free and geometrical inter-locking fixing

Building materials

- Equitone fibre cement (>8mm)

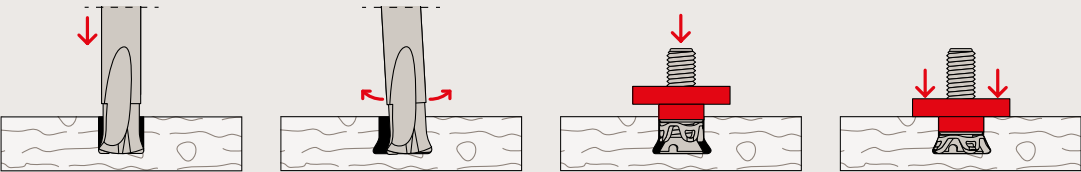
Zykon Panel anchor FZP II T PA Tergo+

Private label anchors for Equitone fibre cement - polyamid sleeve



Tergo+ 11x5 T PA		Tergo+ 11x6 T PA		Tergo+ 11x8 T PA		Tergo+ 11x10 T PA							
		Approval	Min. panel thickness	Embed-ment depth	Total length	Installed anchor length	Remaining thread length	Thread	Cylindrical diameter	Undercut-diameter	Colour washer	Sales unit	
	Item no.	DIBt	[mm]	h ₁ [mm]	L [mm]	a [mm]	b [mm]	M	d ₀ [mm]	d ₁ [mm]		[pcs]	
Item													
Tergo+ 11x5 M6/T/11 PA	552892	●	8	5	18.5	7.5	11	M6	11	13.5	orange	250	
Tergo+ 11x5 M6/T/13 PA	552893	●	8	5	20.5	7.5	13	M6	11	13.5	orange	250	
Tergo+ 11x6 M6/T/10 PA	532641	●	8	6	18.5	8.5	10	M6	11	13.5	red	250	
Tergo+ 11x6 M6/T/13 PA	532642	●	8	6	21.5	8.5	13	M6	11	13.5	red	250	
Tergo+ 11x8 M6/T/10 PA	537974	●	10	8	20.5	10.5	10	M6	11	13.5	yellow	250	
Tergo+ 11x8 M6/T/13 PA	537975	●	10	8	23.5	10.5	13	M6	11	13.5	yellow	250	
Tergo+ 11x10 M6/T/9 PA	532643	●	12	10	21.5	12.5	9	M6	11	13.5	green	250	

Installation FZP II T PA Tergo+

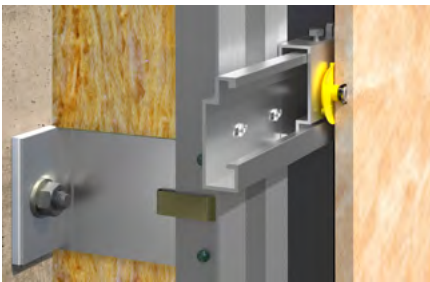


Zykon panel anchors FZP II T D40 PA

The undercut anchor for thin ceramic façade panels.



Cross-section of FZP II T D40 PA installation in ceramics



Façade cross-section FLH AL with ATK100 +103 and FZP II T D40 PA in ceramics

Applications

- For high aesthetical requirements:
- The concealed fixing of thin façade panels on exterior and interior façade as well as reveal panels.

Certificates / Features



ETA-22/0669
ETA-23/0756
ETA-23/0035
ETA-22/0400, for fixing
Mirage facade panels

Advantages

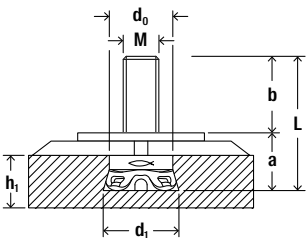
- The short geometry of the anchor allows it to be used in thin panels starting from 8 mm thickness.
- The fixing is not externally visible, creating a visually appealing façade surface.
- The matching shape of the undercut anchor creates a inter-locking and stress-free fixing in the conical undercutted drill hole.
- Setting the anchor using undercut technology allows the user to select the best structural position in the façade panel. This significantly reduces the bending moment of the panel.
- The anchor allows higher failure loads compared to common systems.
- This anchor provides much better holding forces than commonly available systems which allows for the use of large format panels.

Functioning

- wet diamond drilling in ceramic
- The drill hole is drilled with an absolute anchoring depth
- Flush installation of the anchor, the spacer washer will be in full contact with the surface of the material.
- drilling: first cylindrical, then conical - to create the undercut.
- Inserting the undercut anchor in the cylindrical-conical undercut hole
- Expanding the undercut anchor by „pressing down“ the washer using the setting tools
- Stress-free and geometrical inter-locking fixing

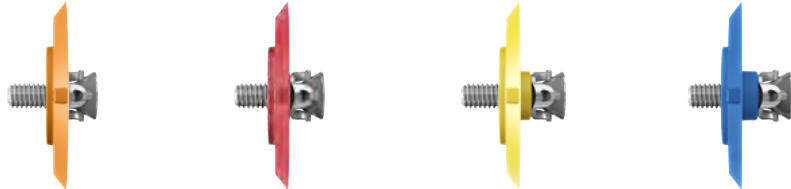
Building materials

- Ceramics
- Fine stoneware (>10mm)



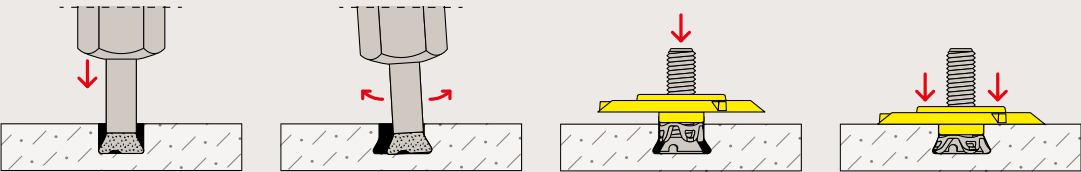
Zykon Panel anchor FZP II T D40 PA

Ceramic undercut anchors - polyamid sleeve and big washer



		Ap- pro- val	Min. panel thickness	Embedment depth	Total length	Installed anchor length	Remaining thread length	Thread	Cylindrical diameter	Undercut- diameter	Colour washer	Sales unit
Item	Item no.	ETA	[mm]	h ₁ [mm]	L [mm]	a [mm]	b [mm]	M	d ₀ [mm]	d ₁ [mm]		[pcs]
FZP II 11x5 M6/T/10 D40 PA	552890	●	8	5	17.5	7.5	10	M6	11	13.5	orange	250
FZP II 11x5 M6/T/13 D40 PA	552891	●	8	5	20.5	7.5	13	M6	11	13.5	orange	250
FZP II 11x6 M6/T/9 D40 PA	532644	●	8	6	17.5	8.5	9	M6	11	13.5	red	250
FZP II 11x8 M6/T/10 D40 PA	532645	●	10	8	20.5	10.5	10	M6	11	13.5	yellow	250
FZP II 11x9 M6/T/9 D40 PA	532646	●	11	9	20.5	11.5	9	M6	11	13.5	blue	250

Installation FZP II T D40 PA

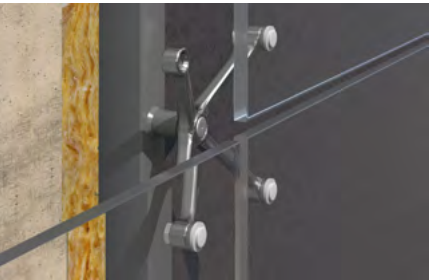


Zykon glass point fixings FZP G Z ESG

The glass point holder for aesthetic fixing of single layered glass façade panels.



Cross-section of FZP G Z ESG glass point holder in single layered glass



Façade cross-section spider fixing with FZP G Z ESG single layered glass

Applications

- Exterior façades
- Interior façades
- Glass façades

Certificates / Features



Advantages

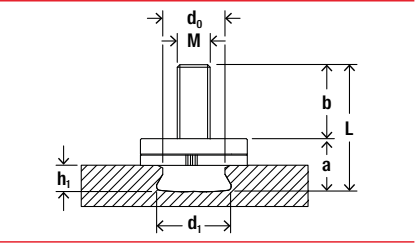
- The geometry of the anchor requires only a small drill hole diameter, allowing for a discreet and visually attractive fixing solution.
- There is no need to drill through the glass façade panel to install the anchor. This adds more safety. The fastening point remains inside the façade panels and does not penetrate through to the outside. This reduces the danger of contamination and ensures a good seal.
- Create an undercut drill hole and chamfer the edge of the drill hole in one work step.

Functioning

- Before glass hardening: use wet diamond drilling - first cylindrical, then conical - to drill an undercut hole.
- After drilling the glass, the glass must be hardened before the undercut anchors can be set.
- When the undercut anchor is set, an optimal, positive-locking connection is created between the expanding part and the drill hole.

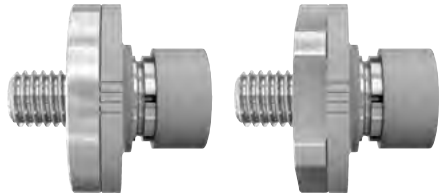
Building materials

- Single layer safety glass (≥10mm)
- Glass ceramic (≥10mm)



Zykon Glass point fixing FZP G Z ESG

Single layered safety glass point holder - stainless steel nut

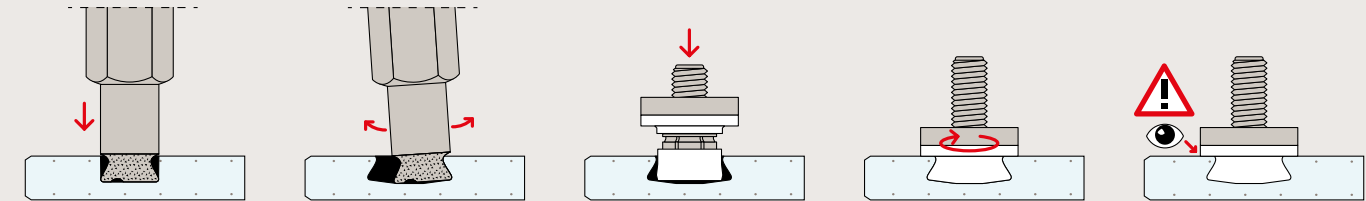


FZP G Z (ESG)

FZP G Z hex (ESG)

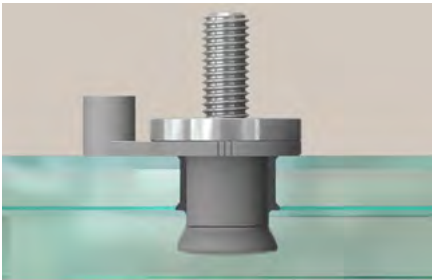
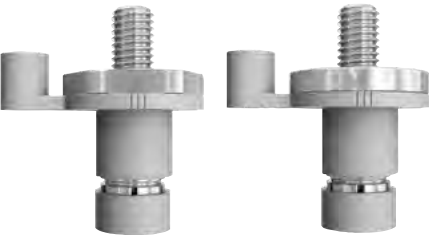
		Ap- pro- val	Min. glass thickness	Total length	Installed an- chor length	Remaining thread length	Thread	Cylindrical diameter	Undercutdia- meter	Embedment depth	Sales unit
Item	Item no.	DIBt		L [mm]	a [mm]	b [mm]	M	d ₀ [mm]	d ₁ [mm]	h ₁ [mm]	[pcs]
FZP 15x6 M8/11 G-Z	047254	●	10	30.5	12.5	11	M8	15	18.0	6	100
FZP 15x6 M8/25 G-Z	047259	●	10	44	12.5	25	M8	15	18.0	6	100
FZP 15x6 M8/11 G-Z hex	051435	●	10	30.5	12.5	11	M8	15	18.0	6	100
FZP 15x6 M8/25 G-Z hex	051436	●	10	44	12.5	25	M8	15	18.0	6	100
FZP 15x7 M8/10 G-Z hex	051440	●	12	30.5	13.5	10	M8	15	18.0	7	100
FZP 15x7 M8/24 G-Z hex	051441	●	12	44	13.5	24	M8	15	18.0	7	100

Installation FZP G Z ESG



Zykon glass point fixings FZP G Z VSG

The glass point holder for aesthetic fixing of laminated composite safety glass.



Cross-section of FZP G Z VSG glass point holder in double layered safety glass



Façade cross-section FPH AL, ATK101, SystemOne BS and FZP G Z VSG in double layered safety glass

Applications

- Exterior façades
- Interior façades
- Glass façades

Certificates / Features



ETA-16/0302, for the rear fixing of structural glass-ceramics



Advantages

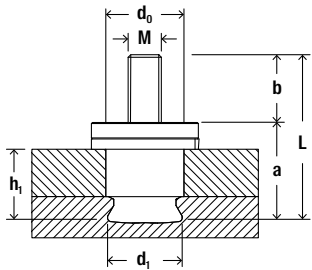
- The geometry of the anchor requires only a small drill hole diameter, allowing for a discreet and visually attractive fixing solution.
- There is no need to drill through the glass façade panel to install the anchor. This adds more safety. The fastening point remains inside the façade panels and does not penetrate through to the outside. This reduces the danger of contamination and ensures a good seal.
- Create an undercut drill hole and chamfer the edge of the drill hole in one work step.

Functioning

- Before glass hardening: use wet diamond drilling - first cylindrical, then conical - to drill an undercut hole.
- After drilling the glass, the glass must be hardened before the undercut anchors can be set.
- When the undercut anchor is set, an optimal, positive-locking connection is created between the expanding part and the drill hole.

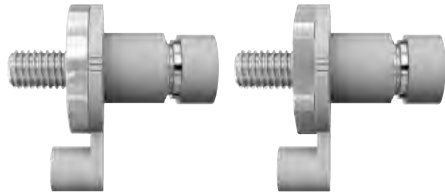
Building materials

- Laminated composite safety glass (>18mm)



Zykon Glass point fixing FZP G Z VSG

Double layered safety glass point holder - stainless steel nut

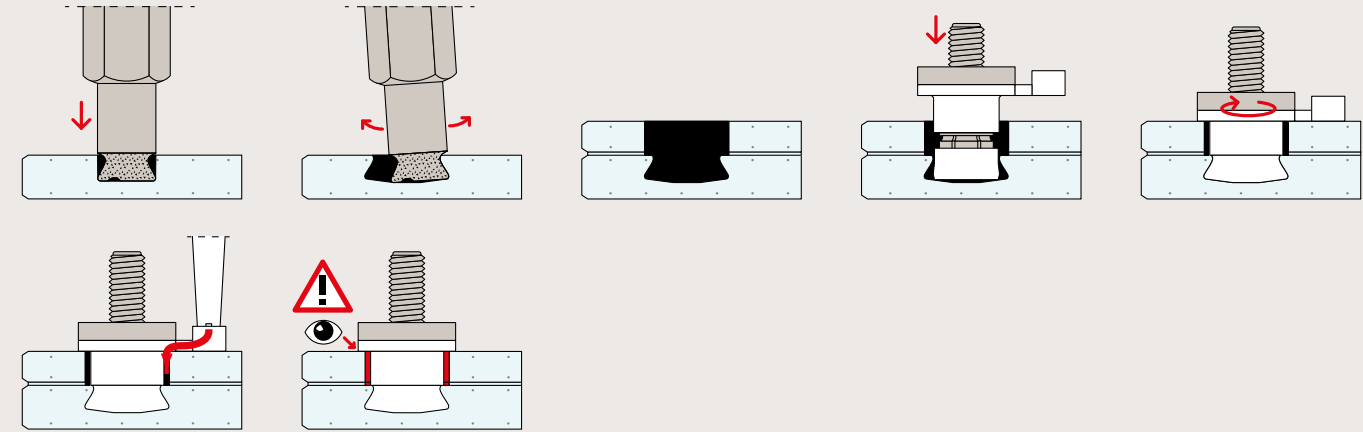


FZP G Z (VSG)

FZP G Z hex (VSG)

Item	Item no.	Approval		Min. glass thickness	Embedment depth h ₁ [mm]	Total length L [mm]	Installed anchor length a [mm]	Remaining thread length b [mm]	Thread M	Cylindrical diameter d ₀ [mm]	Undercut diameter d ₁ [mm]	Sales unit [pcs]
		ETA	DIBt									
FZP 15x15,5 M8/16 G-Z	047300	●	●	10+8	15.5	38	22	16	M8	15	18.0	100
FZP 15x17,5 M8/14 G-Z	050407	●	●	10+10	17.5	38	24	14	M8	15	18.0	100
FZP 15x15,5 M8/16 G-Z hex	051442	●	●	10+8	15.5	38	22	16	M8	15	18.0	100
FZP 15x17,5 M8/14 G-Z hex	051447	●	●	10+10	17.5	38	24	14	M8	15	18.0	100

Installation FZP G Z VSG





8

Machine technology & drilling

DRILLING MACHINES FOR UNDERCUT HOLES

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TESTING AND MEASURING EQUIPMENT

Testing and measuring equipment	171	
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SETTING TOOLS

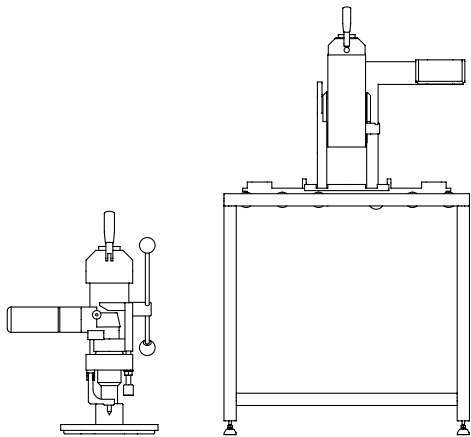
Setting tools SGB / SGT	175	
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Drilling machines for undercut holes.

A fully coordinated complete system.

The perfect solution for ventilated rainscreen façades. Just as much expertise has been invested in the development of the Zykon panel anchor and subframe systems as in the machine technology. This technology is an indispensable part of the façade system. It includes not only fischer drilling machines and drill bits, specially developed for creating undercut drill holes, but also testing and measuring equipment for quality

control of hole geometry, as well as setting tools to ensure the safe and fast installation of the fischer Zykon panel anchors. In addition, it is possible to create the undercut holes using your own CNC machining equipment.



Mobile drilling equipment BSN 100

Undercut drilling machines for wet diamond drilling of natural stone and ceramic façade panels.



Advantages

- Easy handling.
- Economic creation of undercut drill holes.
- Construction site machine.

Functioning

- Diamond drilling
- Water cooling
- Undercutting
- Wet drilling
- Vacuum

Building materials

- Natural stone (≥ 20mm)
- Artificial concrete panels
- Ceramics (≥ 10 mm)
- Solid-surface materials

Technical data

Item	Item no.	Useable Material	Drill bit	Drilling Technology	Dimensions L x W x H [mm]	Dimensions packaging L x W x H [mm]	Weight [kg]	Weight packaging [kg]	Connections	Power input [W]	Water connection [mm]	Water consumption	Sales unit
													[pcs]
BSN 100 VD	046223 ¹⁾	Natural stone, ceramic	Diamond drill bit	manual MB1	450 x 370 x 480	700 x 400 x 610	18	46	230 V, 10/16 A	1,200	1/2 inch cross section, at least 2 bar fresh water	1,5 L / min (idle running)	1
BSN 100 VP	061502 ²⁾	Natural stone, ceramic	Diamond drill bit	manual MB1	450 x 370 x 480	700 x 400 x 610	26	59.5	230 V, 10/16 A	1,200	1/2 inch cross section, at least 2 bar fresh water	1,5 L / min (idle running)	1

1) Supplied with a vacuum pump (mat. no. 802597)
2) Supplied with a venturi nozzle (mat. no. 802111).

Drill rig SBN 502

Undercut drilling machines for wet diamond drilling of natural stone and ceramic façade panels.



Advantages

- Easy handling.
- Economic creation of undercut drill holes in production.
- Compact dimensions.

Functioning

- Diamond drilling
- Water cooling
- Undercutting
- Wet drilling

Building materials

- Natural stone (≥ 20mm)
- Artificial concrete panels
- Ceramics (≥ 10 mm)
- Solid-surface materials

Technical data

		Useable Material	Drill bit	Drilling Technology	Dimensions L x W x H [mm]	Table scwerness [cm]	Dimensions packaging L x W x H [mm]	Weight [kg]	Weight packaging [kg]	Connections	Power input [W]	Water connec- tion [mm]	Water consump- tion [l/min]	Sales unit
Item	Item no.													
SBN 502	061500	Natural stone, ceramic	Diamond drill bit	manual MB2	2100 x 1550 x 1560	170 x 130 x 80	2240 x 1460 x 1910	480	750	230 V. 10/16 A	2 x 1000	1/2 inch cross section, at least 2 bar fresh water	1,5 L/ min (idle running)	1

Mobile drilling equipment LBT 80

Undercut drilling machines for wet diamond drilling of natural stone and ceramic façade panels.



Advantages

- Easy handling.
- Economic creation of undercut drill holes in reveal panels.
- Compact dimensions.

Functioning

- Diamond drilling
- Water cooling
- Undercutting
- Wet drilling

Building materials

- Natural stone (≥ 20mm)
- Artificial concrete panels
- Ceramics (≥ 10 mm)
- Solid-surface materials

Technical data

		Useable Material	Drill bit	Drilling Technology	Dimensions L x W x H [mm]	Table scwerness [cm]	Dimensions packaging L x W x H [mm]	Weight [kg]	Weight packaging [kg]	Connections	Power input [W]	Water connec- tion [mm]	Water consump- tion [l/min]	Sales unit
Item	Item no.													
LBT 80	046225	Natural stone, ceramic	Diamond drill bit	manual MB2	800 x 720 x 1420	40 x 80 x 75	910 x 860 x 1590	65	150	230 V. 10/16 A	1,000	1/2 inch cross section, at least 2 bar fresh water	1,5 L/ min (idle running)	1

Manual drill head MB 2

Undercut drilling machines for mounting on existing processing lines for wet drilling of facade panels made of natural stone and ceramics.



Advantages

- Easy attachment with a flange plate.
- Smallest drilling unit from fischer with the advantages of the big machines.
- Possibility of individual solutions.

Functioning

- Diamond drilling
- Water cooling
- Undercutting
- Wet drilling

Building materials

- Natural stone (≥ 20mm)
- Artificial concrete panels
- Ceramics (≥ 10 mm)
- Solid-surface materials

Technical data

		Useable Material	Drill bit	Drilling Technology	Dimensions L x W x H [mm]	Dimensions packaging L x W x H [mm]	Weight [kg]	Weight packaging [kg]	Connections	Power input [W]	Water consumption	Sales unit [pcs]
Item	Item no.											
MB 2	061130	Natural stone, ceramic	Diamond drill bit	manual MB2	600 x 190 x 290	680 x 270 x 390	30	45	230 V. 10/16 A	1,000	1,5 L/min (idle running)	1

Mobile drilling equipment BSN 101T

Drilling system for dry drilling using carbide cutters in façade panels, such as HPL and fibre cement.



Advantages

- Easy handling.
- Economic construct undercut drill holes.
- Compact dimensions.

Functioning

- Carbide drilling fraises
- Dry drilling
- Undercutting
- Vacuum

Building materials

- Fibre cement
- HPL panels
- Thin panel materials (≥ 8 mm)

Technical data

		Useable Material	Drill bit	Drilling Technology	Dimensions L x W x H [mm]	Dimensions packaging L x W x H [mm]	Weight [kg]	Weight packaging [kg]	Connections	Power input [W]	Sales unit [pcs]
Item	Item no.										
BSN 101T	802484 ¹⁾	Thin panel materials (e.g. HPL, fibre cement)	Carbide cutters	manual MB3	270 x 420 x 520	760 x 540 x 690	13	38	230 V. 10/16 A	1,200	1

1) Supplied with one venturi nozzle (mat. no. 802111). Additionally a vacuum pump (mat. no. 802597) can be purchased.

Side tables BST

As an accessory for fischer drilling machines for fischer Zykon panel anchors.



Applications

- For easier handling of large-format panels during the drilling process
- Ventilated rainscreen façades.
- Façade panels
- fischer drilling machines

Advantages

- Offer an increase in user comfort as an accessory.
- Enable the handling of larger panel formats.
- Create an extension of the machine table support surface.

Functioning

- Easier handling of large-format and heavy panels due to additional side tables with rolls

Building materials

- Natural stone (≥ 20mm)
- Artificial concrete panels (e.g. GFRC, UHPC, etc.)
- Ceramics
- Porcelain stoneware
- Fiber cement
- HPL panels
- Solid surface panels
- Thin panel materials (≥ 8 mm)

Technical data



BST 80		BST 502							
		Dimensions	Dimensions packaging	Weight	Weight packaging	Number of rollers	Max load (carrier-roller)	Adapted for	Sales unit
	Item no.	L x W x H [mm]	L x W x H [mm]	[kg]	[kg]		[N]		[pcs]
Item									
BST 80	046228	800 x 500 x 800	1200 x 650 x 800	16	31	5 pcs. ø 50 x 390 mm	200	LBT 80	1
BST 502	046235	1000 x 1250 x 800	1560 x 1260 x 1240	56	206	55 pcs. ø 60 mm	200	SBN 502	1

Machine accessories

Accessories for fischer undercut drilling machines.

Machine accessories

Vacuum pump VP		Venturi nozzle VD		Vacuum cleaner SSG			
	Item no.	Dimensions L x W x H [mm]	Dimensions packaging L x W x H [mm]	Weight [kg]	Weight packaging [kg]	Adapted for	Sales unit [pcs]
Item							
Vacuum pump VP	802597	430 x 210 x 280	480 x 260 x 420	11	19.5	BSN 100, BSN 101 T	1
Venturi nozzle VD BSN 101T	802111	125 x 130 x 25	160 x 40 x 40	0.1	–	BSN 100, BSN 101 T	1
Venturi nozzle VD BSN 100	804196	95 x 25 x 18	145 x 60 x 40	0.3	0.1	BSN 100	1

Drill bits.

For creating the correct undercut hole for fischer Zykon panel anchors.

Each material and anchor requires the appropriate drill bit type. For instance, a diamond drill bit with water cooling is used for natural stone or ceramics. Other materials, such as HPL and fibre cement, can be drilled dry without water cooling using carbide cutters.

Undercut drill bits

Undercut drill bit for façade panels.



Applications

- Interior façades
- Exterior façades
- Façade reveals

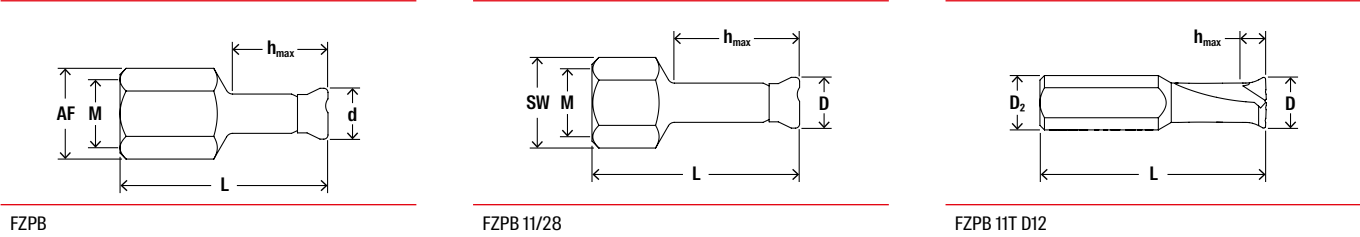
Advantages

- Simple creation of undercut drill holes for fischer-Zykon panel anchors.

Building materials

- Natural stone (≥ 20mm)
- Artificial concrete panels
- Ceramics (≥ 10 mm)
- Solid-surface materials
- Fibre cement
- HPL panels
- Solid surfaces
- Thin panel materials (≥ 8 mm)





Technical data

Undercut drill bits													
FZPB		FZPB 11/28		FZPB 11T D12									
		Useable Material	Drilling method	Max. drill depth	Drill dia-meter	Length	Thread	Shaft dia-meter	Width across flats	for BSN 100 VD & VP	for SBN 502 & LBT 80	for BSN 100T	Sales unit
Item	Item no.			h_{max} [mm]	d_0 [mm]	L [mm]	M	d_s [mm]	AF [mm]				[pcs]
FZPB 9	060713	Natural stone	wet	16	9	45	M14	6.5	17		FZP II M6	–	1
FZPB 9T	530910	Ceramics	–	16	9	45	M14	6.5	17		FZP II T D40		1
FZPB 11	060710	Natural stone	wet	21	11	45	M14	8.5	17	FZP II M6	FZP II M8, FZP II M6i		1
FZPB 11/28	092880	Natural stone	wet	28	11	45	M14	8.5	17	FZP II M6	FZP II M8, FZP II M6i		1
FZPB 13	060711	Natural stone	wet	21	13	45	M14	9.8	17	FZP II M8, FZP II M6i	FZP II M8i		1
FZPB 15	530908	Natural stone	–	21	15	45	M14	11.2	17				1
FZPB 11T D12	522402	Thin panel materials (e. g. HPL, fibre cement)	dry	10	11	50	–	12	12			FZP II T	1

Undercut drill bits CNC

Creation of undercut drill holes using a CNC process.



Applications

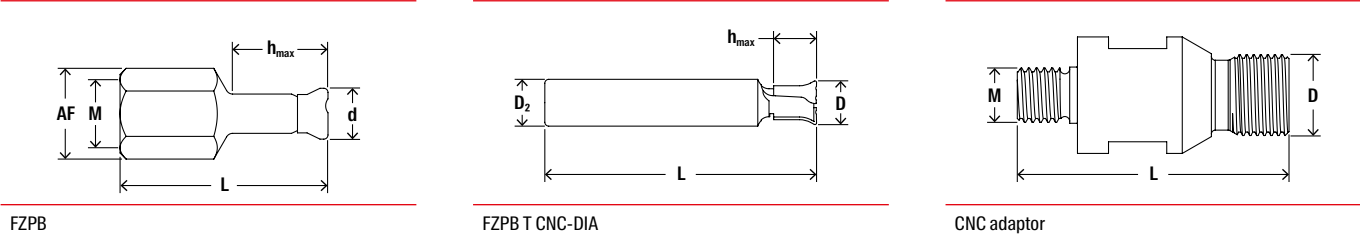
- Interior façades
- Exterior façades
- Façade reveals

Advantages

- Low investment costs
- Fast implementation of fischer undercut technology

Building materials

- Natural stone (≥ 20mm)
- Artificial concrete panels
- Ceramics (≥ 10 mm)
- Solid-surface materials
- Fibre cement
- HPL panels
- Solid surfaces
- Thin panel materials (≥ 8 mm)



Technical data

Undercut drill bits CNC											
											
FZPB	FZPB T CNC-DIA	CNC adaptor									
		Useable Material	Drilling method	Max. drill depth	Drill diameter	Length	Thread	Shaft diameter	Width across flats	for CNC + adaptor	Sales unit
Item	Item no.			h_{max} [mm]	d_0 [mm]	L [mm]	M	d_s [mm]	AF [mm]		[pcs]
FZPB 11/21 CNC	535984 ¹⁾	Natural stone, ceramic	wet	21	11	45	M14	8	17	FZP II M6, FZP II T D40	1
FZPB 13/21 CNC	535985 ¹⁾	Natural stone	wet	21	13	45	M14	9.8	17	FZP II M8, FZP II M6i	1
FZPB 13/38 CNC	540698 ¹⁾	Natural stone	wet	38	13	62	M14	8	17	FZP II M8, FZP II M6i	1
FZPB 15/28 CNC	547077 ¹⁾	Natural stone	wet	28	15	52	M14	11.2	17	FZP II M8i	1
FZPB 11T CNC	522398	Thin panel materials (e. g. HPL, fibre cement)	dry	10	11	80	–	8	12	FZP II T	1
FZPB 11T CNC-DIA	541464	Thin panel materials (e. g. HPL, fibre cement)	dry	10	11	70	–	8.8	12	FZP II T	1
CNC-Adapter	804063	Natural stone, ceramic	–	–	–	–	M14	–	–	FZP II M6, FZP II M8, FZP II M6i, FZP II M8i	

1) If necessary the fischer CNC adaptor #804063 (machine side: R 1/2°-60°; drill bit side M14 thread) may be required.

Undercut drill bit glass

Creation of undercut holes in glass.



Applications

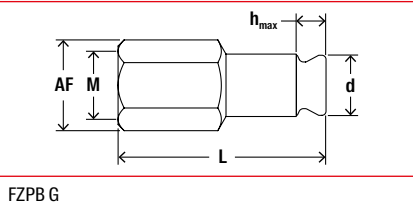
- Glass façades
- Interior façades
- Exterior façades

Advantages

- Creation of undercut drill holes for fischer Zykon panel anchors in glass.

Building materials

- Single layer safety glass (≥ 10mm)
- Laminated composite safety glass (≥ 18mm)
- Glas ceramic



Technical data

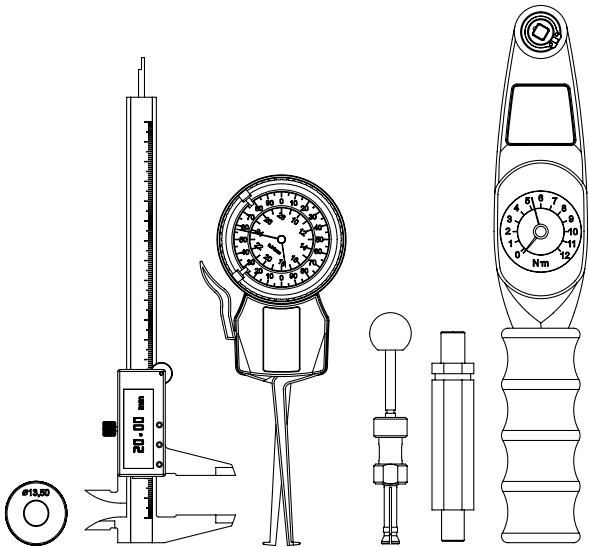
Undercut drill bits glass											
											
FZPB-G											
		Useable Material	Drilling method	Max. drill depth	Drill diameter	Length	Thread	Shaft diameter	Width across flats	for CNC + adaptor	Sales unit
Item	Item no.			h_{max} [mm]	d_0 [mm]	L [mm]	M	d_s [mm]	AF [mm]		[pcs]
FZPB 13 G6	019265	Glass	wet	6	13	45	M14	13.5	17	FZP G Z ESG, FZP G Z VSG	1
FZPB 13 G7	019266	Glass	wet	7	13	45	M14	13.5	17	FZP G Z ESG, FZP G Z VSG	1

Testing and measuring equipment.

For quality control of undercut holes for fischer Zykon panel anchors.

The functionality of the fastening system depends on several factors, with correctly drilled holes and their inspection being crucial. The drill holes should be checked and documented according to the test and

setting specifications (which can be downloaded from the anchor-specific website), as part of the approval process.



Testing and measuring equipment

Quality controlling for undercut drill holes.

Dial gauge for measuring the undercut diameter



Dial gauge STU

	Item No.	Useable material	FZP II M6	FZP II M8	FZP II M6 T	FZP II M6 T D40	FZP II M6i	FZP II M8i	FZP-G ESG	FZP-G VSG
Item										
STU 10 - 30	802506	all	•	•	•	•	•	•	•	•

Caliper for the measuring of the depth and cylindrical diameter of the drill hole



Analog caliper MST



Digital caliper MST-D

	Item No.	Useable material	FZP II M6	FZP II M8	FZP II M6 T	FZP II M6 T D40	FZP II M6i	FZP II M8i	FZP-G ESG	FZP-G VSG
Item										
MST	802575	all	•	•	•	•	•	•	•	•
MST-D	802507	all	•	•	•	•	•	•	•	•

Undercut volume gauge for checking the minimum undercut volume



Undercut volume gauge HVL

	Item No.	Useable material	FZP II M6	FZP II M8	FZP II M6 T	FZP II M6 T D40	FZP II M6i	FZP II M8i		
Item										
HVL 11	802333	natural stone, ceramic	•	—	—	•	—	—		
HVL 11T	802732	Fibre cement	—	—	•	—	—	—		
HVL 13	802337	Natural stone	—	•	—	—	•	—		
HVL 15	804186	Natural stone	—	—	—	—	—	•		

Diameter gauge for checking the cylindrical drill hole diameter



Diameter gauge DPL

	Item No.	Useable material	FZP II M6	FZP II M8	FZP II M6 T	FZP II M6 T D40	FZP II M6i	FZP II M8i		
Item										
DPL 11	802339	natural stone, ceramic	•	—	—	•	—	—		
DPL 11T	804089	Fibre cement	—	—	•	—	—	—		
DPL 13	802338	Natural stone	—	•	—	—	•	—		
DPL 15	804184	Natural stone	—	—	—	—	—	•		

Accessories



Torque wrench DMS Adjustment ring ESR

Item	Item No.	Useable material	FZP II M6	FZP II M8	FZP II M6 T	FZP II M6 T D40	FZP II M6i	FZP II M8i	FZP-G ESG	FZP-G VSG
DMS 0,5 - 13,5 Nm	102863	all	•	•	•	•	•	•	•	•
ESR 13,5 - 15,5	802543	all	•	•	•	•	•	•	•	•

Setting tools.

For the professional installation of fischer Zykon panel anchors.

The setting tools complete the overall system of the fischer Zykon panel anchors FZP II. We offer a range of high-quality tools for simple, fast, and safe installation. Depending on the anchor, panel material, and number of anchors to be installed, there is an optimal tool to perfectly suit your project.

Setting tools

Installation of fischer Zykon panel anchors FZP II.

Setting tools



Battery operated setting tool SGB

Manual setting tool SGT

	Item No.	Useable material	FZP II M6	FZP II M8	FZP II M6 T	FZP II M6 T D40	FZP II M6i	FZP II M8i
Item								
SGB/110V	804097	¹⁾ Natural stone, thin panel materials (e. g. HPL, fibre cement)	●	●	●	●	●	●
SGB/230V	802522	¹⁾ Natural stone, thin panel materials (e. g. HPL, fibre cement)	●	●	●	●	●	●
SGT	802669	²⁾ Natural stone, thin panel materials (e. g. HPL, fibre cement)	●	—	●	●	●	—

1) Dangerous goods - no express shipping possible.
2) for max. thread projection 16 mm

Setting adapter



Setting adapter SGA M8

Setting adapter SGA M8i

	Item No.	Useable material	FZP II M6	FZP II M8	FZP II M8i	FZP II M6 T	FZP II M6 T D40	FZP-G ESG	FZP-G VSG	
Item										
SGA-M6	803749	¹⁾ natural stone, ceramic	●	—	—	●	●	—	—	
SGA-M8	803748	¹⁾ Natural stone	—	●	—	—	—	●	●	
SGA-M8i	804432	Natural stone	—	—	●	—	—	—	—	

1) for max. thread projection 18 mm

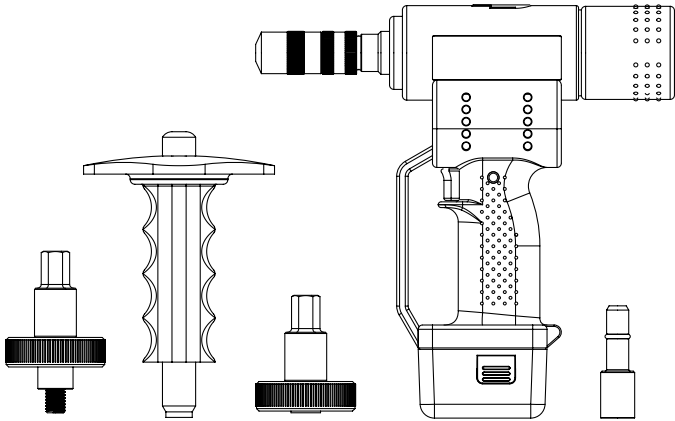
Hammer setting tool for usage with a screw driver



Setting tool FZE plus

	Item No.	Useable material	FZP II M6	FZP II M6i	FZP II M8	FZP II M8i				
Item										
FZE 10 plus	044637	¹⁾ Natural stone	●	●	—	—				
FZE 12 plus	044638	Natural stone	—	—	●	—				
FZE 14 plus	044639	Natural stone	—	—	—	● ²⁾				

1) Without centring pin.
2) Together with centring pin





9

PV façade systems

Product nomenclature	179	
PV clip system	182	
PV clasp system FHC ATK103PV	185	

PV façade systems.

For the realisation of ventilated rainscreen PV-façades.

fischer offers innovative solutions for the installation of photovoltaic (PV) modules on ventilated rainscreen façades, combining efficiency, durability, and design versatility. Our systems ensure a perfect integration into modern architectural designs.

The **fischer PV-Clip system** offers a quick and straightforward installation process for framed PV modules. Manufactured from stainless steel with a high corrosion protection class, it ensures excellent weather resistance. The sliding nut design allows stress-free assembly, while the modular system supports contiguous module arrays with adjustable joint sizes. The start/end clip reduces product variety, simplifying installation.

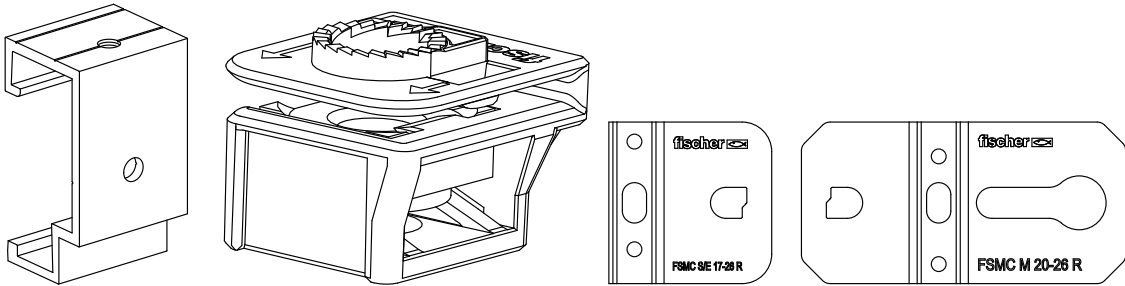
The **fischer ATK103PV clasp system** offers a robust horizontal solution for PV modules at ventilated rainscreen façades. Benefits are the precise height adjustment and secure mounting. Its fixed-point and sliding-point clasps absorb structural loads, including wind, and facilitate easy alignment with an adjustable screw. The combination with the FSMN II sliding nut ensures proper and stress-free installation of the

modules in connection with the clasps. The system is designed for efficient on-site assembly. It delivers exceptional stability and aesthetic flexibility.

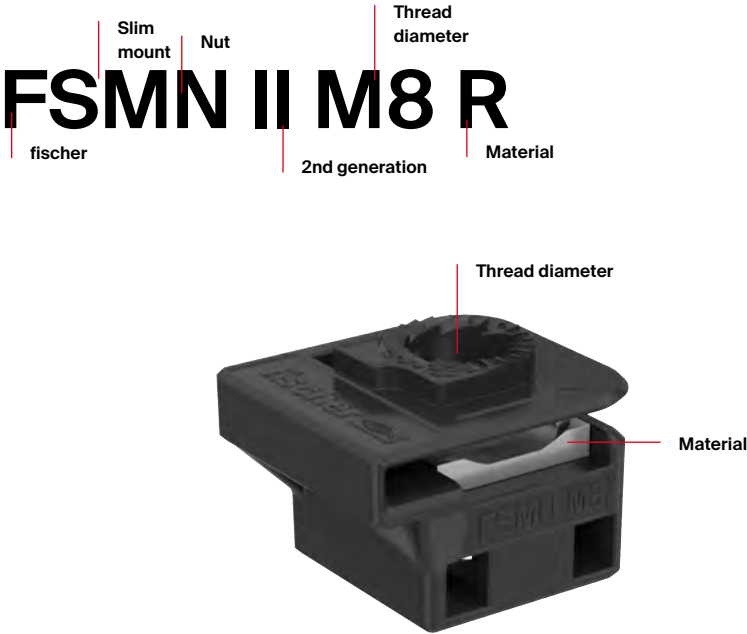
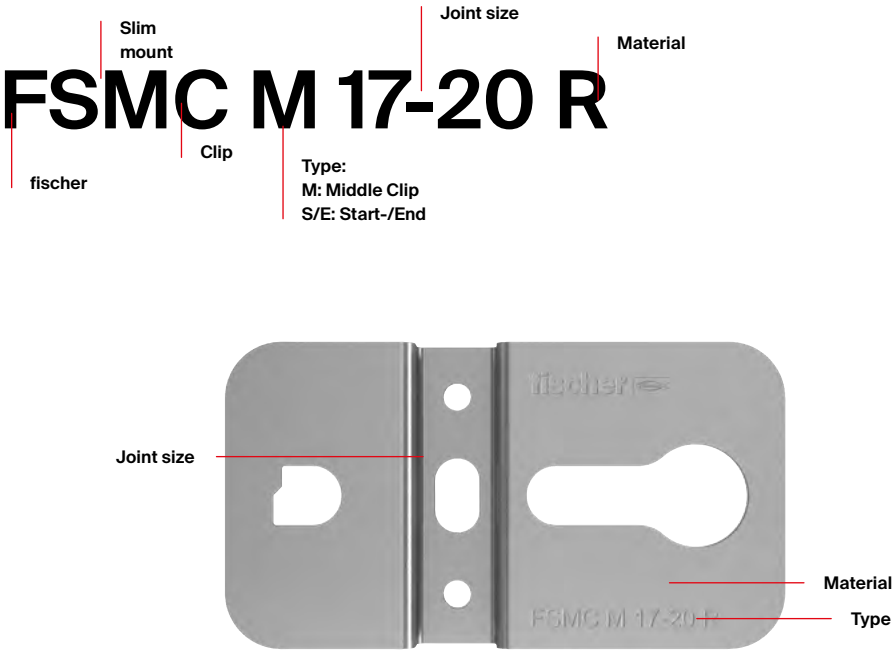
Advantages at a glance:

- Quick, reliable installation with modular and pre-assembled components
- High weather resistance for long-lasting performance
- Adjustable and customizable for various façade designs
- Certified solutions for safety and quality assurance

Contact us to learn how fischer's innovative PV façade systems can elevate the functionality and design of your projects.

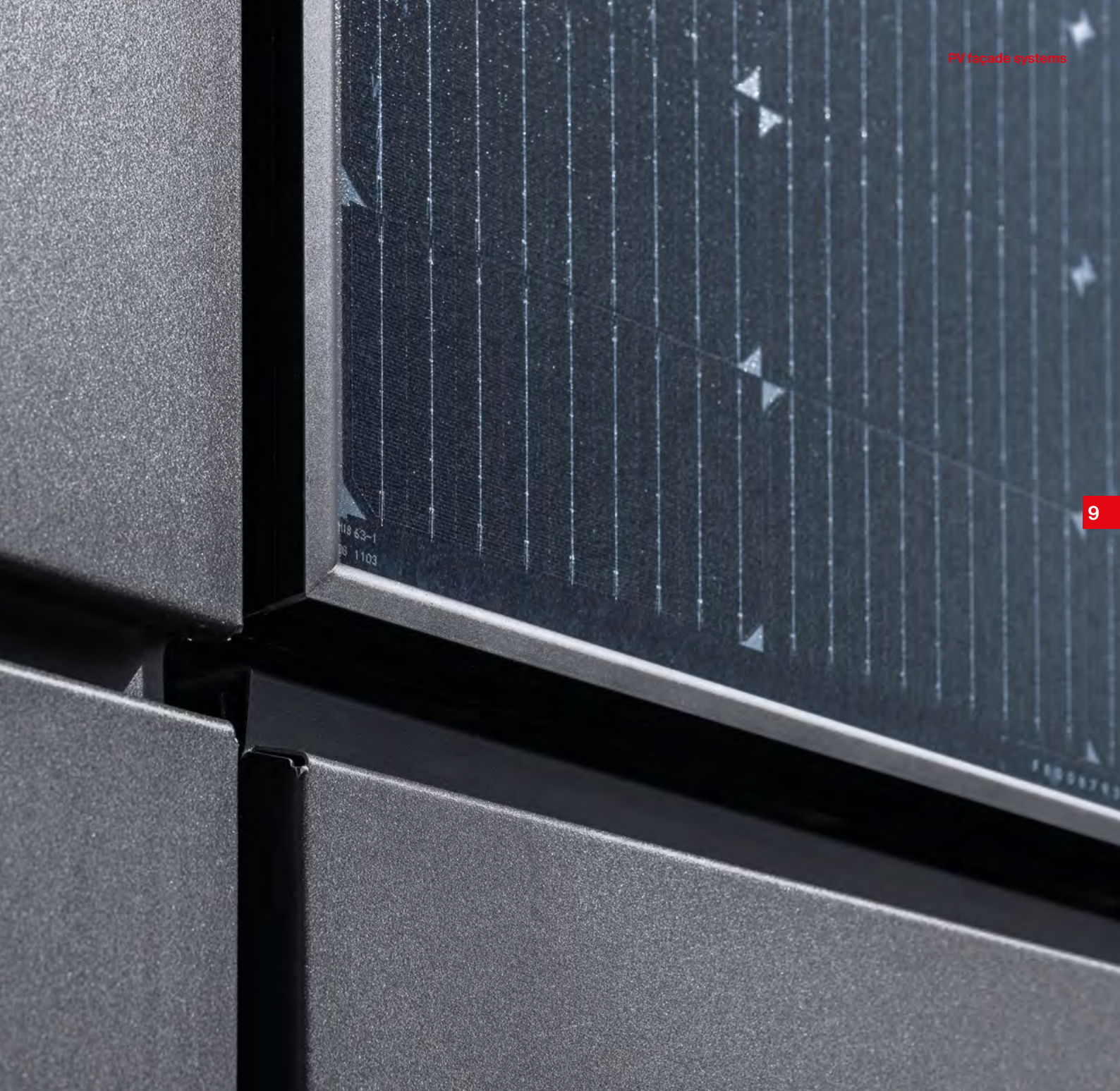
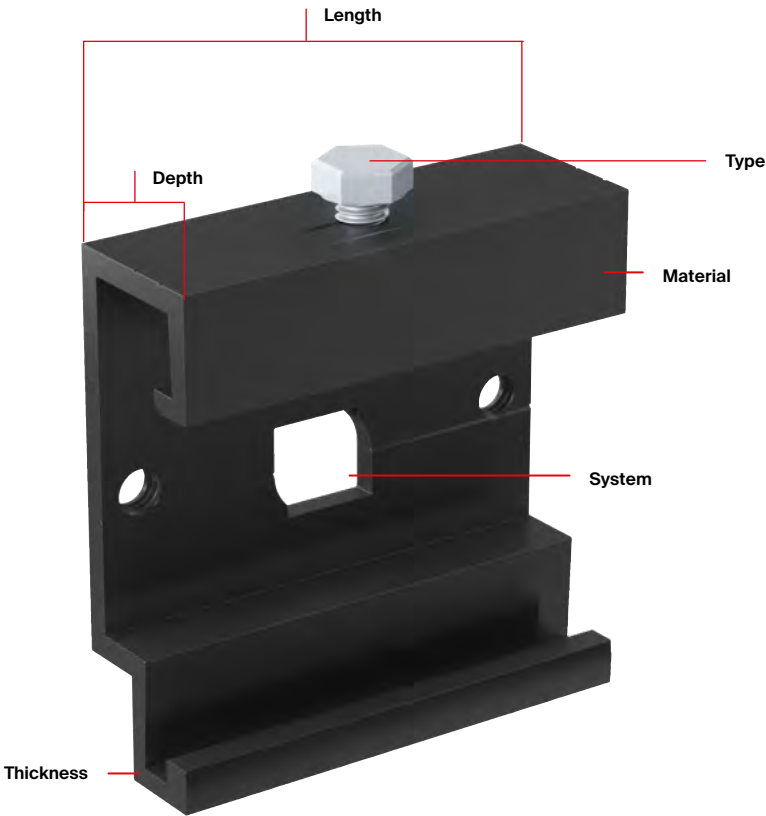


Product nomenclature.



Product nomenclature.

Horizontal Depth Width
FHC 20x3 36/PV/F-SP AL
fischer Clasp Thickness System Material



Recommendations

Suitable for building substrates such as:



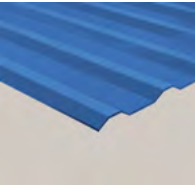
Concrete



Masonry



Steel frames



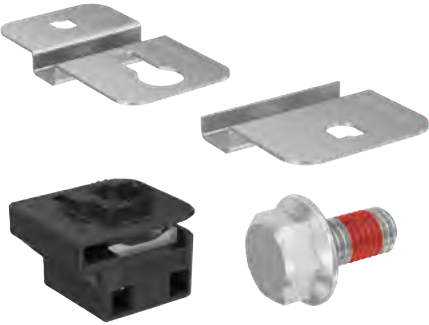
Trapezoidal sheets



Wood

PV clip system

For quick and easy fixing of PV modules on vertical façades.



System illustration PV clip system installed directly to concrete for framed PV modules



Façade cross-section FLH R with ATK100 and PV-clip system on framed PV modules

Applications

- PV clip for mounting PV modules on façades

Certificates / Features



Advantages

- The practical sliding nut enables quick and constraint-free installation.
- The simple stainless steel plug-in system is highly weather-resistant thanks to the high corrosion protection class III.
- Suitable for all types of framed PV modules with mounting holes.
- The system enables fixing to various wall substrates and also to different substructures.
- The modular system enables the construction of contiguous module arrays with adjustable joint sizes.
- The start/end clip can be used both as a start clip and as an end clip, thus minimizing the number of products required.

Properties

Stainless steel with high corrosion protection class III

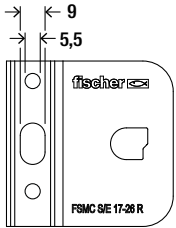
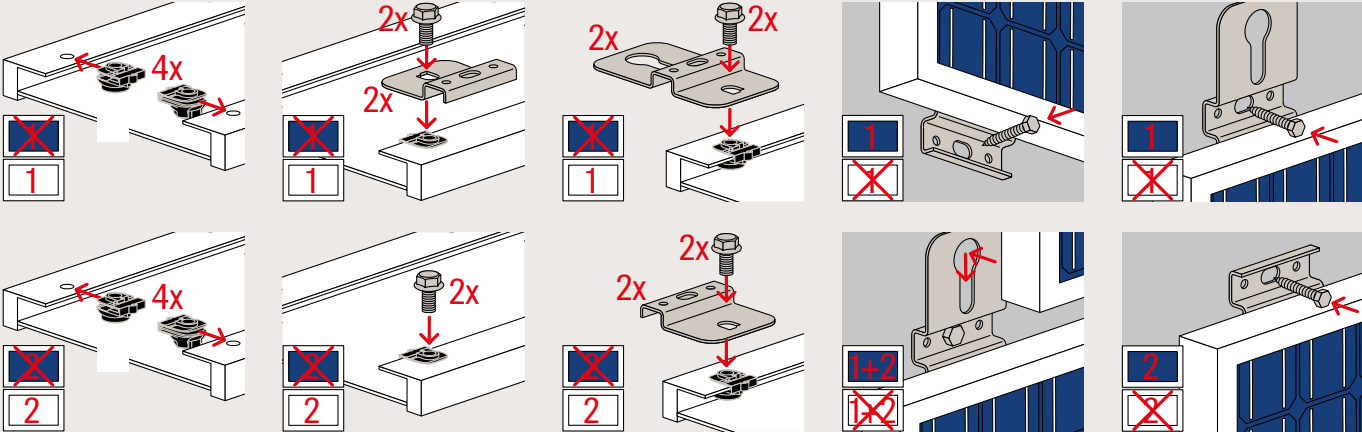
Functioning

- Slide sliding nuts FSMN II R onto all mounting holes on the back of the module.
- Attach fischer PV-Clip FSMC S/E on one side of the starting module, using a screw and screw locking liquid. Attach fischer PV-Clip FSMC M on the other side of the starting module, using a screw and screw locking liquid.
- Fix the PCV-Clips FSMC S/E and FSMC M to the building substrate using plugs, wood screws etc.
- On further modules, mount screws and screw lock on one side and attach to FSMC M from the start module. Attach FSMC M with screw and screw locking liquid on the opposite side and fix to the building substrate using wood screws, plugs etc. undefined

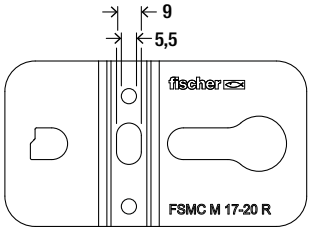
Building materials

- Various building substrates (concrete, wood, masonry, steel, trapezoidal sheet metal)
- Various substructures (aluminum profiles, steel profiles, wooden battens)

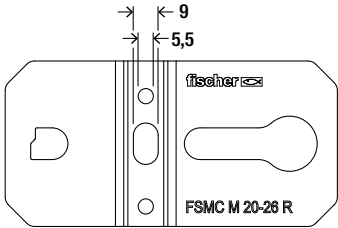
Installation PV clip system



FSMC S/E 17-26 R



FSMC M 17-20 R



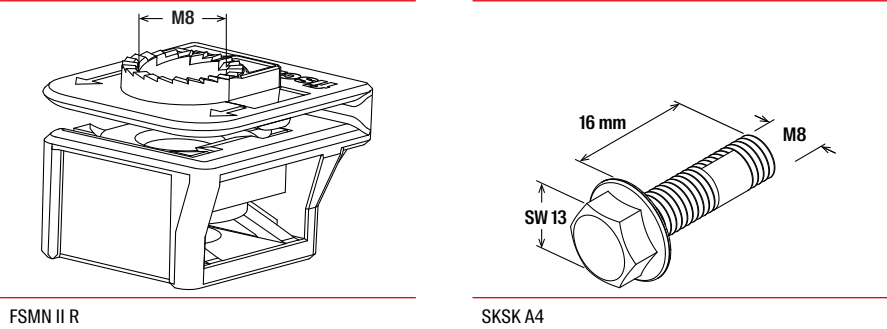
FSMC M 20-26 R

Technical data

PV-Clip FSMC

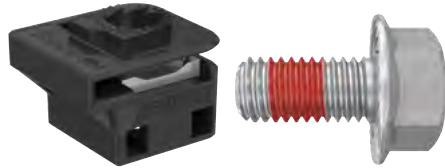


		Width W [mm]	Height H [mm]	Thickness S [mm]	Sales unit [pcs]
Item	Item no.				
FSMC S/E 17-26 R	573440	60	60	1.5	20
FSMC M 17-20 R	573441	110	60	1.5	50
FSMC M 20-26 R	573442	120	60	1.5	50



Accessories FSMN/SKSK

Sliding nut FMSN II R



Item	Item no.	Thread M	Length l [mm]	Width across flats AF [mm]	Sales unit [pcs]
FSMN II M8 R	576836	M8	–	–	100
Self-locking screw serrated with preapplied screw lock SKSK M8x16 A4	574239	M8	16	13	100

PV clasp system FHC ATK103PV

For quick and easy installation of PV modules on vertical façades using the ATK 103 PV horizontal suspension system.



Applications

- As a suspension element ATK 103PV for fixing PV modules to rear-ventilated rainscreen façades using horizontal suspension systems with clasps

Advantages

- The clasps can be pre-assembled, which saves time on the construction site.
- Quick and easy installation of façade panels thanks to the coordinated geometries of the clasps and horizontal profiles.
- Serrated hexagon head screw with pre-applied screw locking device.
- Lifting and displacement protection as well as integration of the PV module into the potential equalisation through the grub screw.

Properties

Aluminium (e. g. EN AW 6063, 6061)

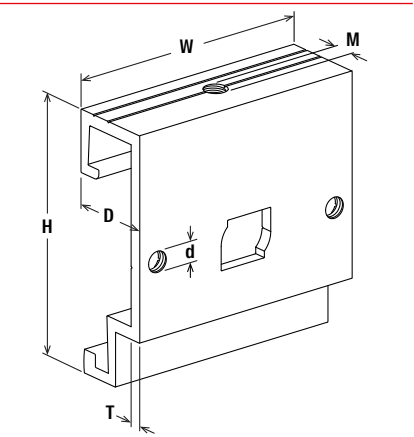
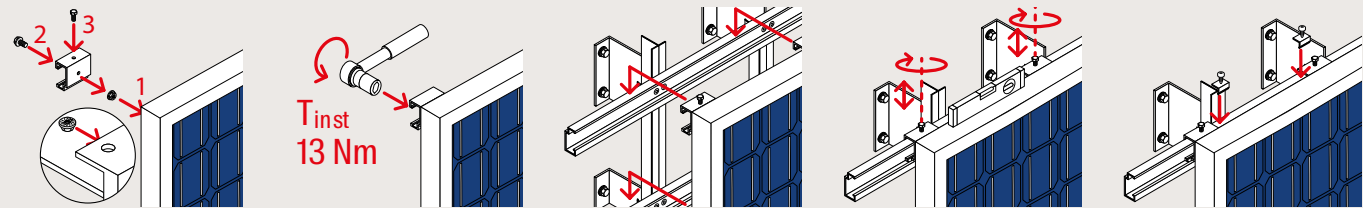
Functioning

- Attach the sliding nuts FSMN II R onto all mounting holes on the back of the module
- Attach the FHC ATK103 FP clasp with adjustment screw and M5 threaded holes to the FSMN II R sliding nut on one of the mounting holes on the upper side of the PV module. Install the clasp by screwing in the serrated hexagon head screw with pre-applied screw lock SKS M8x16 A4. Initial screwing in of the grub screw on the fixed point clasp
- Attach the FHC ATK103 F-SP clasp with adjustment screw on the FSMN II R sliding nut to the remaining mounting hole on the upper side of the PV module
- Attach the two FHC ATK103 F-SP clasps without adjustment screw to the FSMN II R sliding nuts of the two mounting holes on the lower side of the PV module
- Suspending the module in the ATK 103 horizontal subframe
- Adjusting the adjustment screws to align the PV module
- Screw in the grub screw onto the horizontal profile

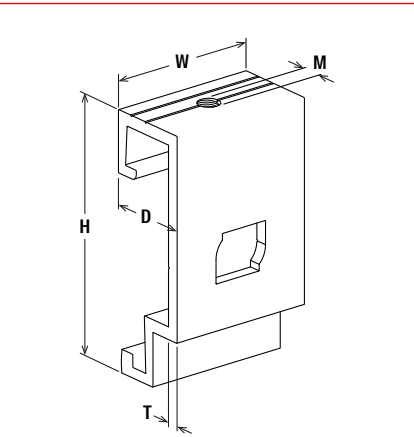
Building materials

- Framed PV modules

Installation PV clasp system FHC-PV ATK103PV



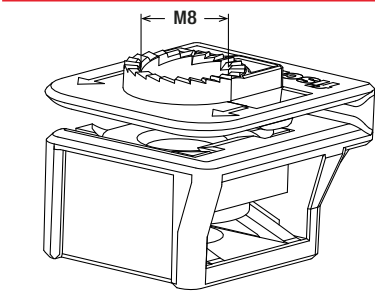
FHC PV FP



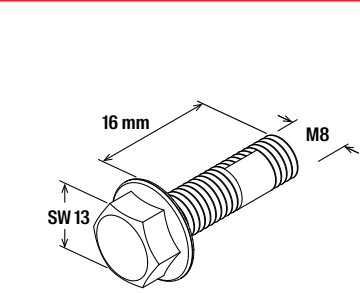
FHC PV F-SP

Technical data

PV-clasp system FHC PV									
 									
FHC 20x3 PV FP black AL FHC 20x3 PV F-SP AL									
	Item no.	Depth D [mm]	Thickness T [mm]	Width W [mm]	Height H [mm]	Thread M	Colour	Contents	Sales unit [pcs]
Item									
FHC 20x3 60/PV/2x5/FP black AL	576923	20	3	60	62	M5	black	1x Clasp 1x Grub screw 1x Adjusting screw M6 x 15	20
FHC 20x3 36/PV/F-SP AL	576924	20	3	36	62	M5	aluminium	3x Clasp 1x Adjustment screw M6 x 15	60

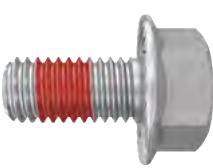


FSMN II R



SKSK A4

Accessories FSMN II R / SKSK

Sliding nut FMSN II R					
 					
FSMN II R SKSK A4 serrated with pre-applied screw lock					
	Item no.	Thread M	Length l [mm]	Width across flats AF [mm]	Sales unit [pcs]
Item					
FSMN II M8 R	576836	M8	–	–	100
Self-locking screw serrated with preapplied screw lock SKSK M8x16 A4	574239	M8	16	13	100



10

Installation accessories

Self-tapping screws	192	
Rivets	192	
Washer	193	
Nuts	194	
Screw locking liquid	194	
Thermostop	195	
System accessory wall holders ATK 100	196	
Reveal angles	196	
Serrated hexagonal head screws	197	
System accessories SystemOne BS	198	
System accessory ATK100KL	199	
System accessories ATK102	199	
Assembly tools	200	
Riveting gauge	200	

Installation accessories.

For the installation of fischer façade systems for ventilated rainscreen façades.

The installation accessories include all the components required to install our fischer façade systems as a ventilated rainscreen façade. In addition to the standard fasteners, such as screws, rivets, and nuts, the

installation accessories also include all the necessary elements to ensure the successful installation of our fischer façade systems.

Installation accessories

Accessories for installing subframe systems of ventilated rainscreen façades.



Applications

- Subframe components out of aluminum or stainless steel
- As connection elements for the fixing of the single subframe system components (e.g. wall brackets and subframe profile) in ventilated rainscreen façades

Advantages

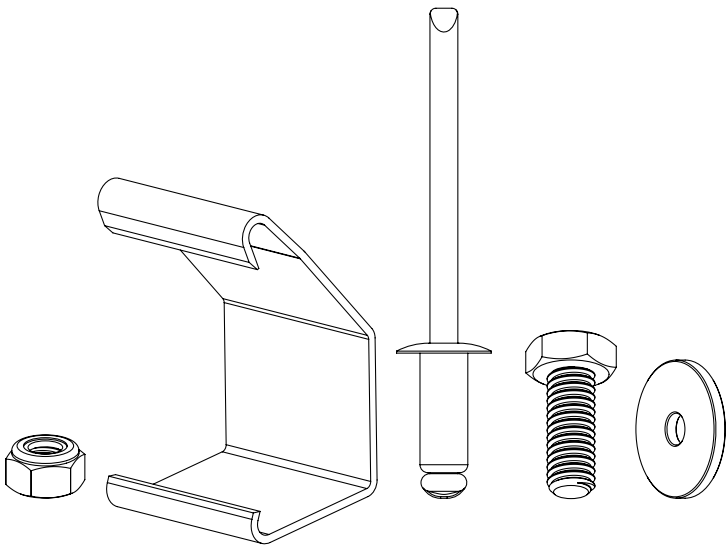
- The accessories are optimally customised for the quick and easy installation of subframe systems for ventilated rainscreen façades.
- Individual customised solutions simplify the installation.
- Enables a secure connection by interlocking for rivet and screw fixings.
- Quick and easy installation with common setting tools.

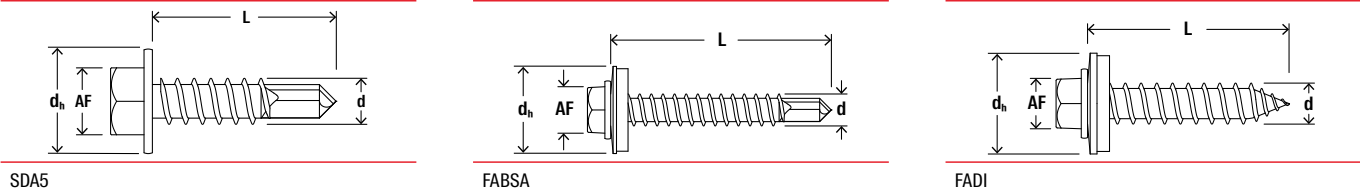
Functioning

- System approach
- Assembly aids
- Mounting aids
- Thermal separation
- Connection elements

Building materials

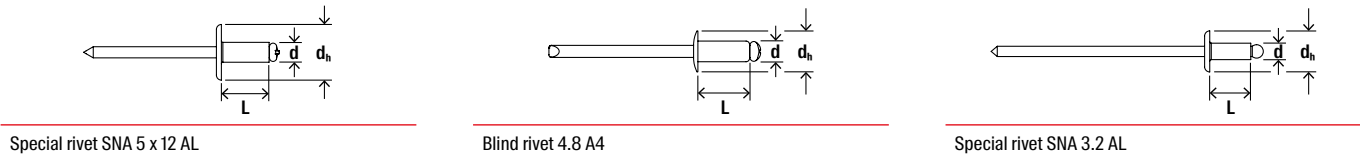
- Subframe components out of aluminum or stainless steel
- All building substrates





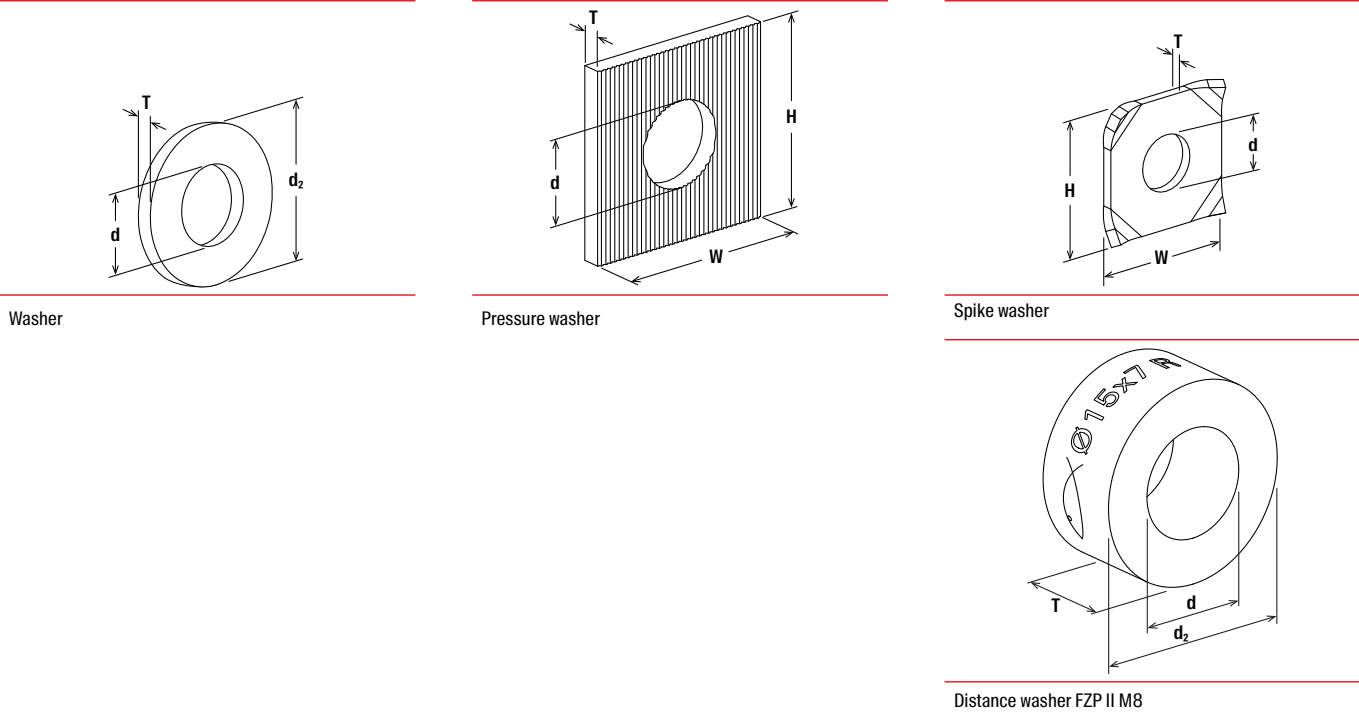
Self-tapping screws

Self-tapping screws as connection elements							
							
SDA5	FABSA	FADI					
	Item no.	Diameter d [mm]	Length L [mm]	Head-ø d _h [mm]	Width across flats AF [mm]	Material	Sales unit [pcs]
Item							
SDA5/3.5-8-H13-S4-5.5.x22	568666	5.5	22	13.2	8	Stainless steel A4	500
FABSA 23 5.5 x 38 A2 DS16	092379	5.5	38	16.0	8	Stainless steel A2	500
FADI A 6.5 x 32 A4 DS16	092123	6.5	32	16.0	8	Stainless steel A4	500

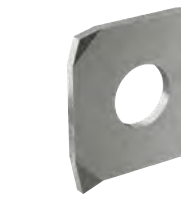


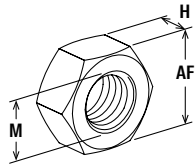
Rivets

Rivets as connection elements						
						
Special rivet SNA 5 x 12 AL	Blind rivet SNA 4.8 A4	Special rivet SNA 3.2 AL				
	Item no.	Diameter d [mm]	Length L [mm]	Head-ø d _h [mm]	Material	Sales unit [pcs]
Item						
Special rivet SNA 5 x 12 K14	545591	5.0	12	13.6	Aluminium	500
Blind rivet 4.0 x 8 AL/A4	548262	4.0	8	7.5	Aluminium / Stainless steel A4	500
Blind rivet 4.0 x 10 AL/A4	548263	4.0	10	7.5	Aluminium / Stainless steel A4	500
Blind rivet 4.8 x 12 A4	521664	4.8	12	9.4	Stainless steel A4	100
Special rivet SNA 3.2 x 8 black	548261	3.2	8	5.9	Aluminium	500
Special rivet SNA 3.2 x 10	548257	3.2	10	5.9	Aluminium	500
Special rivet SNA 3.2 x 10 black	548260	3.2	10	5.9	Aluminium	500

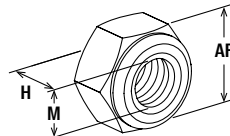


Washer

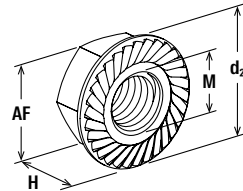
Washers as assembly accessories									
									
Washer	Pressure washer	Spike washer	Distance washer FZP II M8						
	Item no.	Dimensions d [mm]	Dimensions d ₂	Thickness T [mm]	Width W [mm]	Height H [mm]	Material	Content per box [pcs.]	Sales unit [pcs]
Item									
Washer M6-A4	523231	6.4	12	1.6	–	–	Stainless steel A4	100	100
Washer M8-A4	523232	8.4	16	1.6	–	–	Stainless steel A4	100	100
Washer 35x50x5/11 AL	557913	11	–	5	35	50	Aluminium	50	1
Pressure washer D=10.5mm	565721	10.5	–	3	28	28	EN AW 6063 T66	100	1
Spike washer M6 - A4	049914	6.4	–	3	19	19	Stainless steel A4	250	250
Spike washer M8 - A4	049915	8.4	–	3	19	19	Stainless steel A4	250	250
Distance washer FZP II M8i	571877	8	15	7	–	–	Stainless steel A4	200	200



Nut



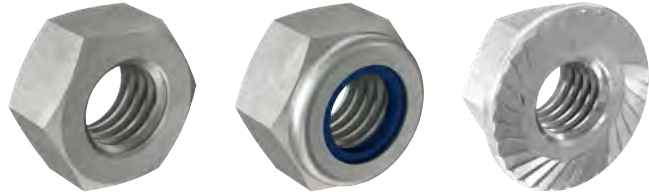
Lock nut



Serrated nut

Nuts

Nutsas assembly accessories



Nut

Lock nut

Serrated nut

		Thread M	Width across flats AF [mm]	Height H [mm]	Dimensions d ₂	Material	Sales unit [pcs]
Item	Item no.						
Nut M6 A4	521667	M6	10	4.7	–	Stainless steel A4	100
Nut M8 A4	521668	M8	13	6.3	–	Stainless steel A4	100
Lock nut M6 A4	521669	M6	10	6	–	Stainless steel A4	100
Lock nut M8 A4	521670	M8	13	8	–	Stainless steel A4	100
Serrated nut M6 A4	541613	M6	10	6	13.2	Stainless steel A4	250
Serrated nut M8 A4	541614	M8	13	8	17.6	Stainless steel A4	250

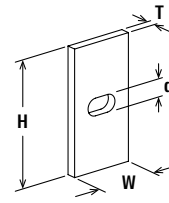
Screw locking liquid

Screw locking liquid

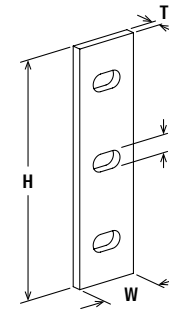


Screw locking liquid

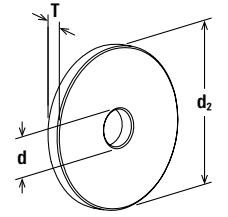
			Sales unit
Item	Item no.		[pcs]
Screw locking liquid 10ml	521676		1



Thermostop H<150



Thermostop H>150



Thermostop CBS

Thermostop

Thermal isolator for wall holders

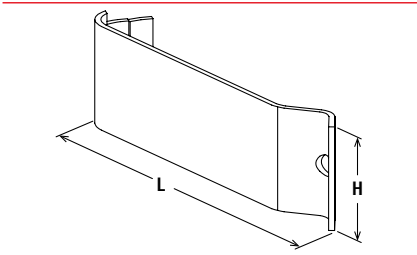
Thermostop H<150

Thermostop H>150



Thermostop CBS

		Height H	Width W	Thickness T	Dimensions d	Dimensions d ₂	Material	Content per box	Sales unit
Item	Item no.	[mm]	[mm]	[mm]	[mm]			[pcs.]	[pcs]
Thermostop 40x80x6/6.5	552979	80	40	6	6.5x20	–	Polycarbonat (PC)	100	1
Thermostop 40x80x6/11	540741	80	40	6	11x20	–	Polycarbonat (PC)	100	1
Thermostop 40x150x6/6.5	552980	150	40	6	6.5x20	–	Polycarbonat (PC)	50	1
Thermostop 40x150x6/11	546156	150	40	6	11x20	–	Polycarbonat (PC)	50	1
Thermostop 40x250x6/11	548268	250	40	6	11x20	–	Polycarbonat (PC)	50	1
Thermostop 40x300x6/11	548269	300	40	6	11x20	–	Polycarbonat (PC)	50	1
Thermostop 60x50x6/11	552219	50	60	6	11x30	–	Polycarbonat (PC)	100	1
Thermostop 60x70x6/11	565358	70	60	6	11x30	–	Polycarbonat (PC)	100	1
Thermostop 60x150x6/11	565359	150	60	6	11x30	–	Polycarbonat (PC)	100	1
Thermostop CBS	092680	–	–	5.5	12	50	Polycarbonat (PC)	–	200



Helping hand clip

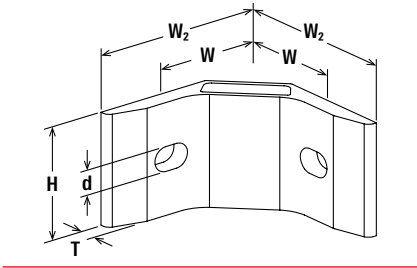
System accessory wall holders ATK 100

Helping hand for easy installation of vertical profile to wall holders ATK100



Helping hand clip

	Item no.	Length L [mm]	Height H [mm]	Material	Content per box [pcs.]	Sales unit [pcs]
Item						
Helping hand clip	547170	50	15	Stainless steel	100	1



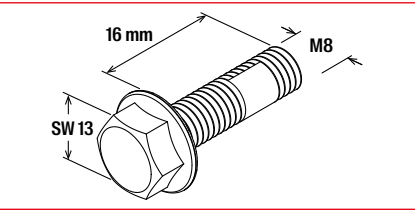
Reveal angles

Reveal angles for façade panel embrasure application

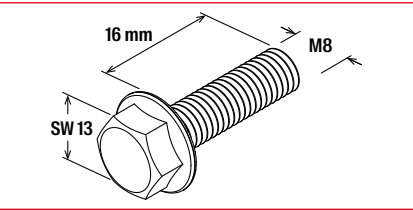


Reveal angle LW 50

	Item no.	Width W [mm]	Width W ₂ [mm]	Height H [mm]	Thickness T [mm]	Dimensions d [mm]	Hole pattern [mm]	Material	Sales unit [pcs]
Item									
Reveal Angle LW 50 M6	078995	50	80	50	8	9x15	2x 9x15	Aluminium	125
Reveal Angle LW 50 M8	079148	50	80	50	8	11x17	2x 11x17	Aluminium	125



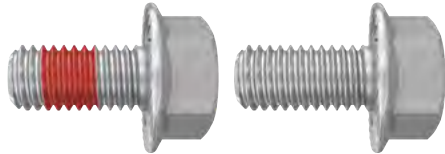
SKSK A4



SKS

Serrated hexagonal head screw

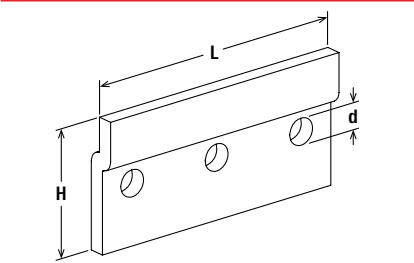
Serrated hexagonal head screw



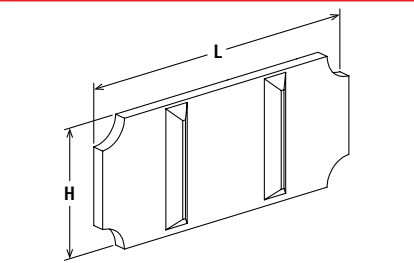
SKSK A4 serrated with pre-applied screw lock

SKS A4 serrated

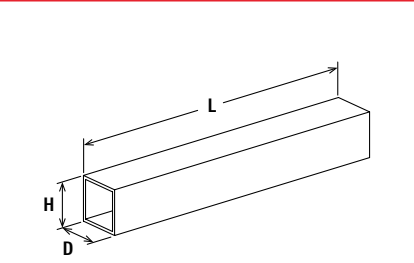
	Item no.	Thread M	Length l [mm]	Width across flats AF [mm]	Material	Sales unit [pcs]
Item						
Self-locking screw serrated with preapplied screw lock SKSK M8x16 A4	574239	M8	16	13	Stainless steel A4	100
Self-locking screw serrated SKS M8 x 16 A4	570553	M8	16	13	Stainless steel A4	100



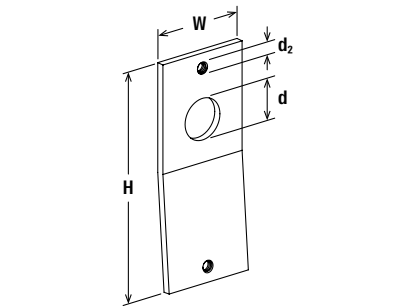
Profile guidance GLB



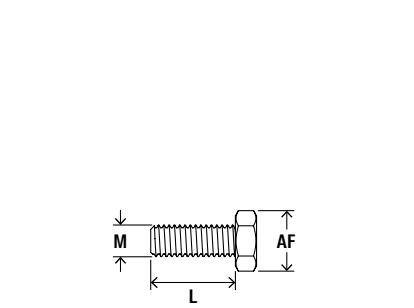
Fixit



Profile connector PSV-BS



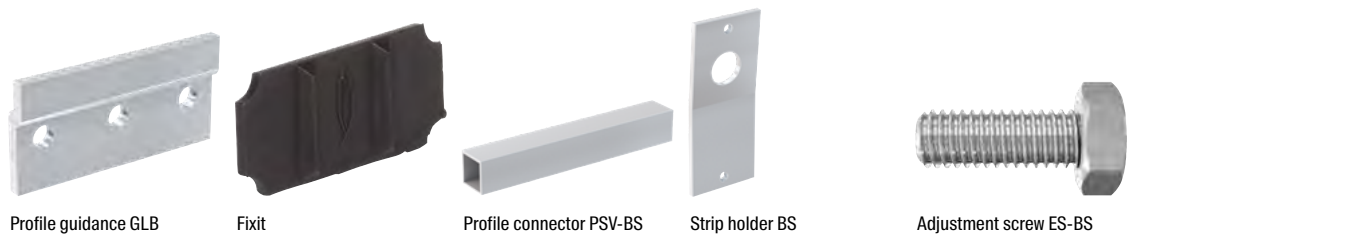
Strip holder BS



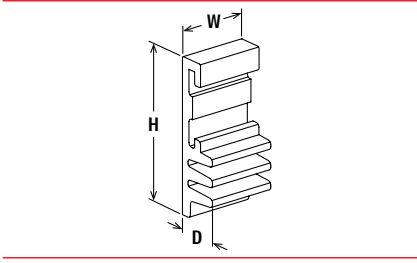
Adjustment screw ES-BS

System accessories SystemOne BS

System accessories SystemOne BS



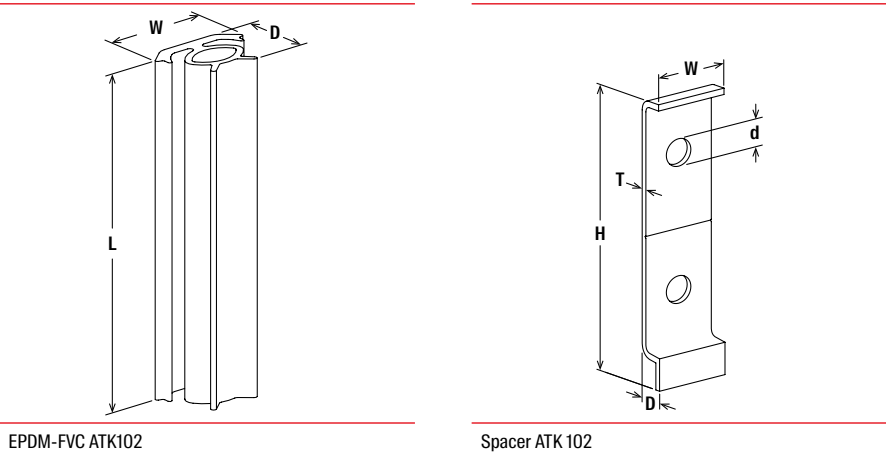
	Item no.	Length	Height	Thickness	Depth	Dimensions	Thread	Width across flats	Material	Sales unit
		L [mm]	H [mm]	T [mm]	D [mm]	d [mm]	M	AF [mm]		
Profile guidance GLB	048906	50	27	3	–	5	–	–	Aluminium	200
Fixit	048905	45	20	2.3	–	–	–	–	Polyamid	250
Profile connector PSV-BS	521665	200	30	2	30	–	–	–	Aluminium	25
Strip holder BS	079169	120	120	4	–	23	–	–	Aluminium	50
Adjustment screw ES-BS	521673	–	–	–	–	–	M6	10	Stainless steel A4	50



System accessory ATK100KL

System accessory ATK100KL

							
Gasket							
	Item no.	Width W [mm]	Height H [mm]	Depth D [mm]	Material	Content per box [pcs.]	Sales unit [pcs]
Item							
ATK 100 KL Gasket EPDM	546221	10	22.7	6.4	EPDM	1,000	1



System accessories ATK102

System accessories ATK102

 										
EPDM-FVC ATK102 Spacer ATK102										
	Item no.	Width W [mm]	Length L [mm]	Depth D [mm]	Height H [mm]	Thickness T [mm]	Dimensions d [mm]	Material	Content per box [pcs.]	Sales unit [pcs]
Item										
EPDM-FVC, 150M	559342	15	150,000	10.5	–	2	–	EPDM	1	1
Spacer ATK102	565202	12	–	4.7	47	1	4.5	Stainless steel	500	1

Assembly tools

Assembly tools			
  			
Socket wrench	Assembly tool	Dismounting tool	
	Item no.	Width across flats AF [mm]	Sales unit [pcs]
Item			
Socket wrench/cross-handle/230/AF10	802168	10	1
Socket wrench/cross-handle/230/AF13	802169	13	1
Assembly tool ZeLa-coupling	552222	–	1
Dismounting tool ZeLa coupling	559191	–	1

Riveting gauge

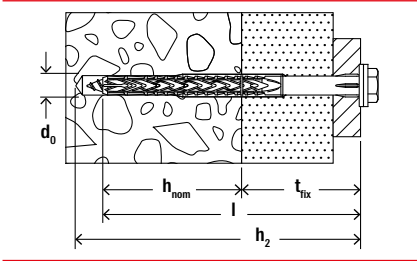
Riveting gauge			
			
SNA 5x12			
	Item no.		Sales unit [pcs]
Item			
Riveting gauge SNA 5 x 12 K14	565729		1
Nosepiece 17/24 SL 20	565727		1



11

Fixing systems and accessories

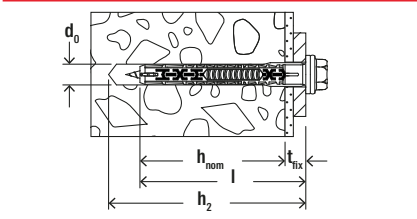
General fixings	204	
Insulation support DHK	211	
Insulation support DHM	213	
Insulation discs	215	
Cavity FireStop Clad FCFcl	216	
VentiStop Cavity Barrier - FFB-VS	218	



Frame fixing SXRL-FUS

Frame fixing SXRL-FUS												
												
SXRL-FUS												
	Galvani- sed steel	Stainless steel	Approval		Drill diameter	Min. drill hole depth for through fixings	Usable length at anchorage depth 50 mm	Usable length at anchorage depth 70 mm	Usable length at anchorage depth 90 mm	Anchor length	Drive	Sales unit
	Item no.	Item no.	ETA	DIBt	d ₀ [mm]	h ₂ [mm]	t _{fix} [mm]	t _{fix} [mm]	t _{fix} [mm]	l [mm]		[pcs]
Item	gvz	R										
SXRL 8 x 60 FUS	540127	540135	●	–	8	70	10	–	–	60	TX30 / SW 10	50
SXRL 8 x 80 FUS	540129	540136	●	–	8	90	30	10	–	80	TX30 / SW 10	50
SXRL 8 x 100 FUS	540130	540137	●	–	8	110	50	30	10	100	TX30 / SW 10	50
SXRL 8 x 120 FUS	540131	–	●	–	8	130	70	50	30	120	TX30 / SW 10	50
SXRL 8 x 140 FUS	540133	–	●	–	8	150	90	70	50	140	TX30 / SW 10	50
SXRL 8 x 160 FUS	540134	–	●	–	8	170	110	90	70	160	TX30 / SW 10	50
SXRL 10 x 60 FUS	546506	546507	●	●	10	70	10	–	–	60	TX40 / SW 13	50
SXRL 10 x 80 FUS	522719	522730	●	●	10	90	30	10	–	80	TX40 / SW 13	50
SXRL 10 x 100 FUS	522720	522731	●	●	10	110	50	30	10	100	TX40 / SW 13	50
SXRL 10 x 120 FUS	522721	522732	●	●	10	130	70	50	30	120	TX40 / SW 13	50
SXRL 10 x 140 FUS	522723	522733	●	●	10	150	90	70	50	140	TX40 / SW 13	50
SXRL 10 x 160 FUS	522724	522734	●	●	10	170	110	90	70	160	TX40 / SW 13	50
SXRL 10 x 180 FUS	522725	522735	●	●	10	190	130	110	90	180	TX40 / SW 13	50
SXRL 10 x 200 FUS	522726	522736	●	●	10	210	150	130	110	200	TX40 / SW 13	50
SXRL 10 x 230 FUS	522727	522737	●	●	10	240	180	160	140	230	TX40 / SW 13	50
SXRL 10 x 260 FUS	522728 ¹⁾	522738 ¹⁾	●	●	10	270	210	190	170	260	TX40 / SW 13	50
SXRL 10 x 290 FUS	522729 ¹⁾	–	●	●	10	300	240	220	200	290	TX40 / SW 13	50
SXRL 14 x 260 FUS	530954	–	●	●	14	275	–	190	170	260	TX50 / SW 17	50
SXRL 14 x 80 FUS	530946	–	●	●	14	95	–	10	–	80	TX50 / SW 17	50
SXRL 14 x 100 FUS	530947	–	●	●	14	115	–	30	10	100	TX50 / SW 17	50
SXRL 14 x 120 FUS	530948	–	●	●	14	135	–	50	30	120	TX50 / SW 17	50
SXRL 14 x 140 FUS	530949	–	●	●	14	155	–	70	50	140	TX50 / SW 17	50
SXRL 14 x 160 FUS	530950	–	●	●	14	175	–	90	70	160	TX50 / SW 17	50
SXRL 14 x 180 FUS	530951	–	●	●	14	195	–	110	90	180	TX50 / SW 17	50
SXRL 14 x 200 FUS	530952	–	●	●	14	215	–	130	110	200	TX50 / SW 17	50
SXRL 14 x 230 FUS	530953	–	●	●	14	245	–	160	140	230	TX50 / SW 17	50

1) Not pre-assembled.



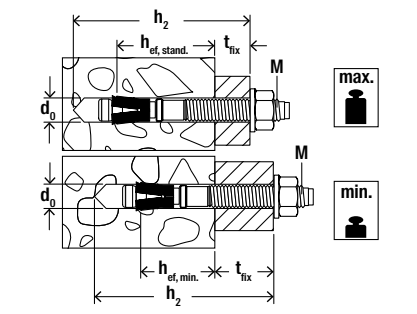
Frame fixing DuoXpand FUS

Frame fixing DuoXpand FUS



DuoXpand FUS

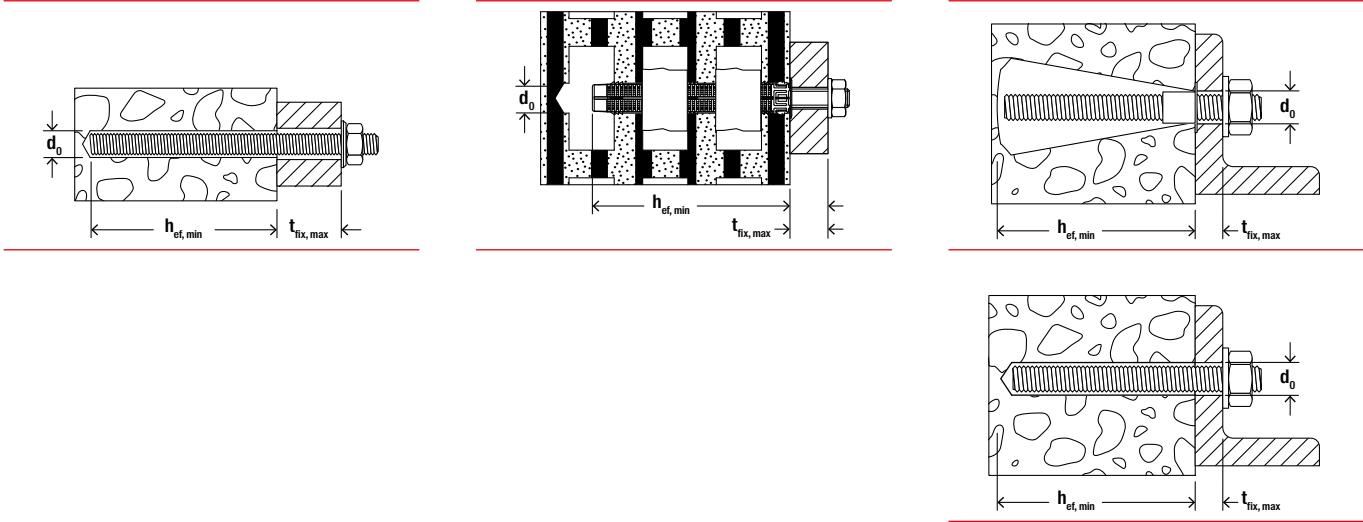
	Galvani- sed steel	Stainless steel	Ap- pro- val	Drill dia- meter	Min. drill hole depth for through fixings	Usable length at anchorage depth 50 mm	Usable length at anchorage depth 70 mm	Usable length at anchorage depth 140 mm	Usable length at anchorage depth 160 mm	Anchor length	Drive	Sales unit
Item	Item no. gvz	Item no. R	ETA	d ₀ [mm]	h ₂ [mm]	t _{fix} [mm]	t _{fix} [mm]	t _{fix} [mm]	t _{fix} [mm]	l [mm]		[pcs]
DuoXpand 8 x 80 FUS	562152	–	●	8	90	30	10	–	–	80	TX30 / SW 10	50
DuoXpand 8 x 100 FUS	562153	–	●	8	110	50	30	–	–	100	TX30 / SW 10	50
DuoXpand 8 x 120 FUS	562154	–	●	8	130	70	50	–	–	120	TX30 / SW 10	50
DuoXpand 10 x 80 FUS	562167	562175	●	10	90	30	10	–	–	80	TX40 / SW 13	50
DuoXpand 10 x 100 FUS	562168	562176	●	10	110	50	30	–	–	100	TX40 / SW 13	50
DuoXpand 10 x 120 FUS	562169	562177	●	10	130	70	50	–	–	120	TX40 / SW 13	50
DuoXpand 10 x 140 FUS	562170	562178	●	10	150	90	70	–	–	140	TX40 / SW 13	50
DuoXpand 10 x 160 FUS	562171	–	●	10	170	110	90	20	–	160	TX40 / SW 13	50
DuoXpand 10 x 180 FUS	562172	–	●	10	190	130	110	40	20	180	TX40 / SW 13	50
DuoXpand 10 x 200 FUS	562173	–	●	10	210	150	130	60	40	200	TX40 / SW 13	50
DuoXpand 10 x 230 FUS	562174	–	●	10	240	180	160	90	70	230	TX40 / SW 13	50



Bolt anchor FAZ II Plus

Bolt anchor FAZ II Plus															
															
FAZ II Plus		FAZ II Plus R			FAZ II Plus HCR										
	Galvani- sed steel	Stainless steel	Highly corrosion- resistant steel	Approval			Seismic- Approval	Drill dia- meter	Min. drill hole depth for through fixings	Max. usa- ble length hef,stand./ hef,min.	Anchor length	Thread	Width across nut	Instal- lation torque	Sales unit
Item	Item no. gvz	Item no. R	Item no. HCR	ETA	DIBt	ICC		d ₀ [mm]	h ₂ [mm]	t _{fix} [mm]	l [mm]	ø x length [mm]	SW [mm]	T _{inst} [Nm]	[pcs]
FAZ II Plus 8/10	564574 ¹⁾	564609 ¹⁾	–	●	●	●	C1	8	65	10 / 20	75	M8 x 38	13	20	50
FAZ II Plus 8/10	–	–	564635 ¹⁾	●	●	●	C1	8	65	10 / 20	75	M8 x 38	13	20	10
FAZ II Plus 10/10	564579	564612	–	●	●	●	C1 / C2	10	85	10 / 30	95	M10 x 53	17	45	50
FAZ II Plus 10/10	–	–	564638	●	●	●	C1 / C2	10	85	10 / 30	95	M10 x 53	17	45	10
FAZ II Plus 10/20	564580	–	–	●	●	●	C1 / C2	10	95	20 / 40	105	M10 x 63	17	45	25

1) With minimum embedment depth only for statically interderminate systems.



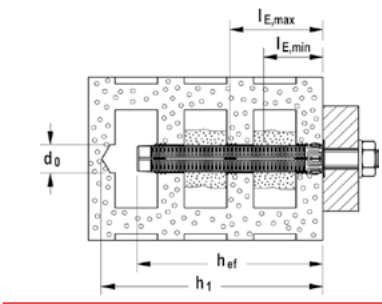
Threaded rod FIS A

Threaded rod FIS A



FIS A

	Galvani- sed steel, steel grade 5.8	Galvani- sed steel, steel grade 8.8	Stainless steel	Ap- pro- val	Drill diameter	Min. / max. anchorage depth	Max. usable length at min. / max. anchorage depth	Min. / max. filling quantity	Sales unit
	Item no. gvz 5.8	Item no. gvz 8.8	Item no. R	ETA	d ₀ [mm]	h _{ef,min} / max [mm]	t _{fix,min} / max [mm]	[scale units]	[pcs]
Item	gvz 5.8	gvz 8.8	R						
FIS A M8 x 110	090275	519391	090441	●	10	60 / 100	40 / -	2 / 3	10
FIS A M10 x 110	090278	–	090444	●	12	60 / 96	36 / -	3 / 4	10
FIS A M10 x 130	–	576264	–	●	12	60 / 96	36 / -	3 / 4	10
FIS A M12 x 120	044971	–	–	●	14	70 / 104	34 / -	3 / 5	10
FIS A M6 x 110	090273	–	090439	●	8	50 / 72	52 / 30	2 / 3	20

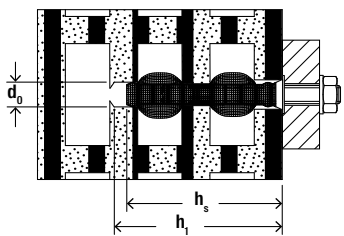


Injection anchor sleeve FIS H K

Injection anchor sleeves FIS H K						
						
FIS H K						
	Item no.	Ap- pro- val	Drill diameter	Min. drill hole depth	Min. effect. anchorage depth	Sales unit
Item		ETA	d ₀ [mm]	h ₁ [mm]	h _{ef} [mm]	[pcs]
FIS H 12 x 50 K	041900	●	12	55	50	50
FIS H 12 x 85 K	041901	●	12	90	65	50
FIS H 16 x 85 K	041902	●	16	90	85	50
FIS H 16 x 130 K	041903	●	16	135	110	20

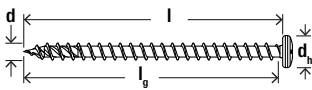
Injection anchor sleeve FIS H L

Injection anchor sleeve FIS H L					
					
FIS H L					
	Item no.	Drill diameter d ₀ [mm]	Total length l [mm]	Match	Sales unit [pcs]
Item					
FIS H 12 x 1000 L	050598	12	1,000	Ø6/M6 - Ø8/M8	10
FIS H 16 x 1000 L	050599	16	1,000	Ø8/M8 - Ø10/M10	10



Injection anchor sleeve FIS H N

Injection anchor sleeve FIS H N						
						
FIS H N						
	Item no.	Drill diameter d ₀ [mm]	Min. drill hole depth h ₁ [mm]	Min. effect. anchorage depth h _{ef} [mm]	Match	Sales unit [pcs]
Item						
FIS H 16 x 85 N	050470	16	95	85	Ø8/M8	20
FIS H 18 x 85 N	050472	18	95	85	Ø10/M10	20

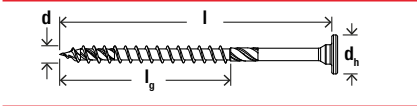


Chipboard screw PowerFast FPF II PZF BC

PowerFast FPF II PZF BC								
								
FPF II PZF BC								
	Item no.	Ap- pro- val	Diameter	Length	Thread length	Head-ø	Drive	Sales unit
Item		ETA	d [mm]	l [mm]	l _g [mm]	d _h [mm]		[pcs]
FPF II PZF 5,0 x 16 BC 200	670442	-	5.0	16	10	10.0	PZ2	200
FPF II PZF 5,0 x 20 BC 200	670443	-	5.0	20	14	10.0	PZ2	200
FPF II PZF 5,0 x 25 BC 200	670444	-	5.0	25	19	10.0	PZ2	200
FPF II PZF 5,0 x 30 BC 200	670445	●	5.0	30	24	10.0	PZ2	200
FPF II PZF 5,0 x 40 BC 100	670446	●	5.0	40	34	10.0	PZ2	100
FPF II PZF 5,0 x 50 BC 100	670447	●	5.0	50	44	10.0	PZ2	100
FPF II PZF 5,0 x 60 BC 100	670448	●	5.0	60	54	10.0	PZ2	100
FPF II PZF 5,0 x 70 BC 100	670449	●	5.0	70	64	10.0	PZ2	100
FPF II PZF 6,0 x 40 BC 100	670535	●	6.0	40	33	12.0	PZ3	100
FPF II PZF 6,0 x 50 BC 100	670536	●	6.0	50	43	12.0	PZ3	100
FPF II PZF 6,0 x 60 BC 100	670537	●	6.0	60	53	12.0	PZ3	100
FPF II PZF 6,0 x 70 BC 50	670538	●	6.0	70	63	12.0	PZ3	50

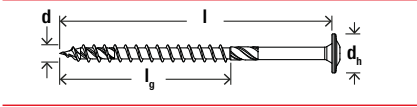
Chipboard screw PowerFast FPF II ST25P BC

PowerFast FPF II ST25P BC								
								
FPF II STP BC								
	Item no.	Ap- pro- val ETA	Diameter d [mm]	Length l [mm]	Thread length l _t [mm]	Head-ø d _h [mm]	Drive	Sales unit [pcs]
Item								
FPF II ST25P 5.0 x 50 BC 200	561777	●	5.0	50	30	11.0	TX25	200
FPF II ST25P 5.0 x 60 BC 200	561778	●	5.0	60	36	11.0	TX25	200
FPF II ST25P 5.0 x 80 BC 200	561779	●	5.0	80	45	11.0	TX25	200
FPF II ST25P 5.0 x 100 BC 100	561780	●	5.0	100	60	11.0	TX25	100
FPF II ST25P 5.0 x 120 BC 100	561781	●	5.0	120	70	11.0	TX25	100
FPF II STP 6.0 x 60 BC 100	561782	●	6.0	60	36	13.5	TX30	100
FPF II STP 6.0 x 80 BC 100	561783	●	6.0	80	45	13.5	TX30	100
FPF II STP 6.0 x 100 BC 100	561784	●	6.0	100	60	13.5	TX30	100
FPF II STP 6.0 x 120 BC 100	561785	●	6.0	120	70	13.5	TX30	100
FPF II STP 6.0 x 140 BC 100	561786	●	6.0	140	70	13.5	TX30	100
FPF II STP 6.0 x 160 BC 100	561787	●	6.0	160	70	13.5	TX30	100
FPF II STP 6.0 x 180 BC 100	561788	●	6.0	180	70	13.5	TX30	100



Wood construction screw PowerFast FPF II WTP

PowerFast FPF II WTP								
								
FPF II WTP BC								
	Item no.	Ap- pro- val ETA	Diameter d [mm]	Length l [mm]	Thread length l _t [mm]	Head-ø d _h [mm]	Drive	Sales unit [pcs]
Item								
FPF II WTP 8.0 x 80 BC 50	566332	●	8.0	80	60	21.0	TX40	50
FPF II WTP 8.0 x 100 BC 50	566333	●	8.0	100	60	21.0	TX40	50
FPF II WTP 8.0 x 120 BC 50	566334	●	8.0	120	80	21.0	TX40	50
FPF II WTP 8.0 x 140 BC 50	566335	●	8.0	140	80	21.0	TX40	50
FPF II WTP 8.0 x 160 BC 50	566336	●	8.0	160	80	21.0	TX40	50
FPF II WTP 8.0 x 180 BC 50	566337	●	8.0	180	100	21.0	TX40	50
FPF II WTP 8.0 x 200 BC 50	568166	●	8.0	200	100	21.0	TX40	50
FPF II WTP 10.0 x 80 BC 50	566338	●	10.0	80	60	25.5	TX40	50
FPF II WTP 10.0 x 100 BC 50	566339	●	10.0	100	60	25.5	TX40	50
FPF II WTP 10.0 x 120 BC 50	566340	●	10.0	120	80	25.5	TX40	50
FPF II WTP 10.0 x 140 BC 50	566341	●	10.0	140	80	25.5	TX40	50
FPF II WTP 10.0 x 160 BC 50	566342	●	10.0	160	80	25.5	TX40	50
FPF II WTP 10.0 x 180 BC 50	566343	●	10.0	180	100	25.5	TX40	50
FPF II WTP 10.0 x 200 BC 50	566344	●	10.0	200	100	25.5	TX40	50



Insulation support DHK / DHK 45

The cost-effective plastic insulation support for all conventional insulating boards.



Insulation fixing in the ventilated façade



Insulating materials in ventilated façades

Applications

To fix soft and pressure-resistant insulating materials in rear-ventilated façades, such as:

- Mineral wool
- PU panels
- Light building boards made of wood wool
- Cork boards / coir matting
- Polystyrene
- Foam glass tiles

Advantages

- The optimised geometry of the expansion section ensures a low anchorage depth and reduces the amount of drilling required.
- The flexible DHK plate adapt to the insulating material, and ensures a sustained contact pressure.
- The simple hammerset installation allows for a quick installation process and thus reduces workload.
- The colouring of the DHK means that it does not stand out on black clad insulating material in rear-ventilated façades.

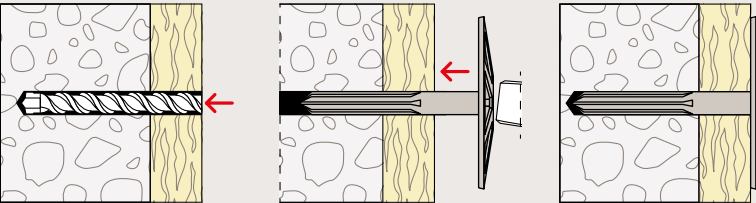
Building materials

- Concrete
- Hollow blocks made from lightweight concrete
- Vertically perforated brick
- Perforated sand-lime brick
- Solid sand-lime brick
- Natural stone with dense structure
- Aerated concrete
- Solid brick made from lightweight concrete
- Solid brick

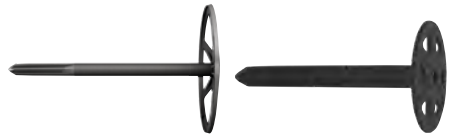
Functioning

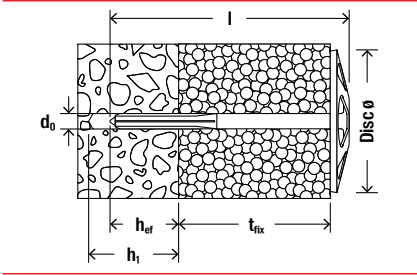
- The DHK is set in push-through installation by using a hammer.
- The plate size of the insulation support is to be selected in line with the compressive strength of the insulating material: DHK 45 for pressure-resistant; DHK for soft insulating materials.
- The expansion of the ribs in the drill hole gives the DHK an ideal contact pressure.
- Temperature range when installed: -40 °C to +80 °C.

Installation DHK / DHK 45



Insulation support DHK

Insulation support DHK								
								
DHK	DHK 45							
		Drill diameter	Disc ø	Min. drill hole depth	Min. effect. anchorage depth	Anchor length	Max. fixture thickness	Sales unit
	Item no.	d ₀ [mm]	[mm]	h ₁ [mm]	h _{ef} [mm]	l [mm]	t _{fix} [mm]	[pcs]
Item								
DHK 40	080937	8	90	30	20	65	40	250
DHK 60	080938	8	90	30	20	85	60	250
DHK 80	080939	8	90	30	20	105	80	250
DHK 100	080940	8	90	30	20	125	100	250
DHK 120	080941	8	90	30	20	145	120	200
DHK 140	080949	8	90	30	20	165	140	200
DHK 160	512150	8	90	30	20	185	160	100
DHK 180	512151	8	90	30	20	205	180	100
DHK 200	512153	8	90	30	20	225	200	100
DHK 220	512154	8	90	30	20	245	220	100
DHK 45/40	080892	8	45	30	20	65	40	250
DHK 45/60	080893	8	45	30	20	85	60	250
DHK 45/80	080894	8	45	30	20	105	80	250
DHK 45/100	080895	8	45	30	20	125	100	250



Insulation support DHM

The fire-protection-tested metal insulation support for fire-resistant insulating boards.



Fire resistant wood wool panels on ceilings



Pressure-resistant insulation boards in ventilated façades

Applications

To fix fire-resistant soft or pressure-resistant insulating materials, such as:

- Mineral wool
- Light building boards made of wood wool
- Foam glass tiles

Also suitable for:

- Polystyrene boards
- Coir matting

Advantages

- The metal insulation support achieves fire resistance F 120. This means that it can be used where there are fire resistance requirements.
- The DTM 80 plate for soft insulating materials (available separately) simplifies storage and minimises costs.
- The simpleammerset installation allows a quick installation process and thus

- reduces workload.
- The shaft geometry allows setting in aerated concrete without pre-drilling, thus saving a stage of installation.
- Stainless steel version DHM A2 (1.4301) for wet and exterior applications.
- The DHM can be combined with coloured cover caps, which complete the design of the surface.

Certificates / Features



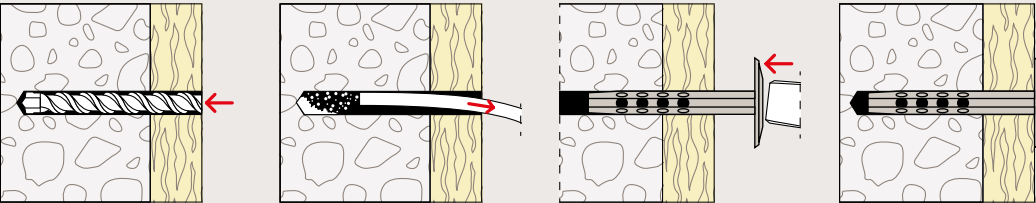
Building materials

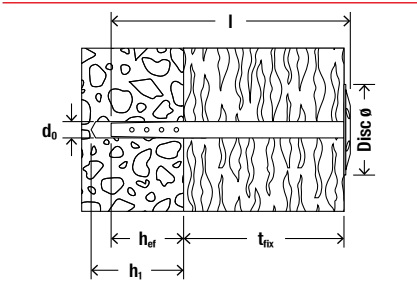
- Concrete
- Hollow blocks made from lightweight concrete
- Vertically perforated brick
- Perforated sand-lime brick
- Solid sand-lime brick
- Natural stone with dense structure
- Aerated concrete
- Solid brick made from lightweight concrete
- Solid brick

Functioning

- The insulation support is set in push-through installation by using a hammer.
- When hammered in, the expansion part tightens like a spring with the substrate.
- Use the DTM 80 plate (available separately) to fix soft insulating materials.
- Optionally, the DHM can be set with a hammer drill and the EMS M6 setting tool

Installation DHM





Insulation support DHM

Insulation support DHM



DHM

	Hot-dip galvanised steel	Stainless steel A2	Ap-pro-val	Drill diameter	Disc ø	Min. drill hole depth	Min. effect. anchorage depth	Anchor length	Usable length	Sales unit
	Item no.	Item no.	DIBt	d ₀ [mm]	[mm]	h ₁ [mm]	h _{ef} [mm]	l [mm]	t _{fix} [mm]	[pcs]
Item	hdg	A2								
DHM 40	536253	536262	●	8	45	50	40	80	10 - 40	250
DHM 70	536254	536264	●	8	45	50	40	110	40 - 70	250
DHM 100	536256	536265	●	8	45	50	40	140	70 - 100	250
DHM 130	536257	536266	●	8	45	50	40	170	100 - 130	250
DHM 160	536258	536267	●	8	45	50	40	200	130 - 160	250
DHM 210	536259	536268	●	8	45	50	40	250	170 - 210	125
DHM 260	536260	536269	●	8	45	50	40	300	220 - 260	125

Insulation disc DTM

Insulation disc DTM



DTM 80

		Ap-pro-val	Disc ø	Through hole	Steel sheet thickness	Sales unit
	Item no.	DIBt	[mm]	d _t [mm]	s [mm]	[pcs]
Item						
DTM 80	536261	●	80	11	0.5	250
DTM 80 A2	536271	●	80	11	0.5	250

Insulation discs

Insulation discs



HK 36 plastic



HV 36



ISO-Disc 8/60



DT 60/10



DTM 60/10 A4



DTM 70/10

		Disc ø	Disc height	Through hole	Steel sheet thickness	Sales unit
	Item no.	[mm]	[mm]	d _t [mm]	s [mm]	[pcs]
Item						
HK 36 plastic	004283	36	4.5	5	–	100
HV 36 zinc	004286	36	3.5	5	0.7	100
ISO-disk 8/60	001680	60	7.0	8	–	100
DT 60/10	044317	60	7.0	10	–	50
DTM 60/10 A4	088805	60	3.0	10.5	0.5	100
DTM 70/10 zinc	044318	70	5.0	11	0.8	50
ISO Insulation disc 8/60	541345	–	–	–	–	1

Insulation discs DT

Insulation discs DT



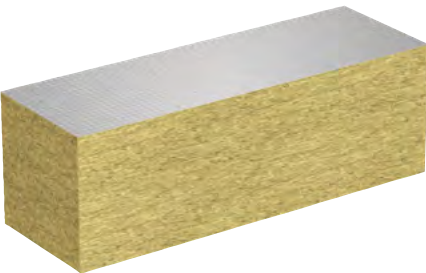
DT 90

		Disc ø	Disc height	Through hole	Sales unit
	Item no.	[mm]	[mm]	d _t [mm]	[pcs]
Item					
DT 90/4	080957 ¹⁾	90	9.3	4	250
DT 90/8	080958	90	9.3	8.5	250

1) The central hole is adapted in such a way that the disc fits onto the 4 mm wire of a remedial wall tie

Cavity FireStop Clad FCFcl

Designed to protect the building void between the inner and outer construction elements.



FCFcl Cavity Clad - Vertical application



11

Applications

- Horizontal and vertical cavities between the inner and outer construction elements
- Ceiling Cavity Barriers
- Under Floor Cavity Barriers
- Slab Edge Barriers

Advantages

- Tested to EN 1366-4 & BS 476
- Classification to EN 13501-2, EN 13501-1
- Air Permeability to EN 1026 to 600Pa
- Acoustic Isolation to EN 10140 to 31dB
- Superior Level of Sustainability
- Encased Fibre Migration for Air Plenum Use
- Floor & Wall voids up to 590 mm wide

Certificates / Features



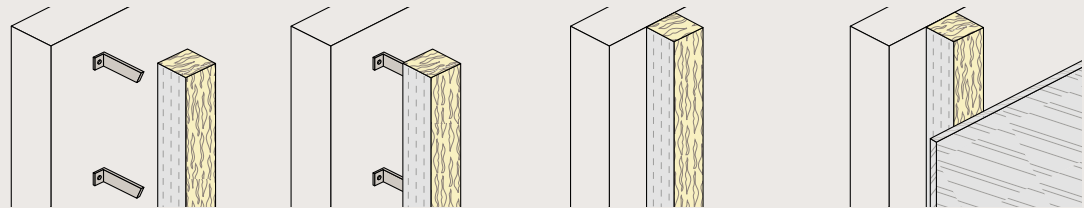
Building materials

- Concrete slabs, columns and walls
- Curtain wall assemblies

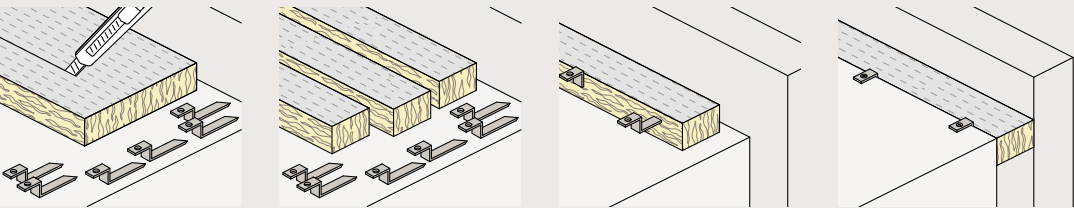
Functioning

- FCFcl Cavity Clad comprises of a one piece closed dimension stone wool core.
- The product is encased with an aluminum foil face which provides class ,O' rating and exhibits excellent resistance to smoke.
- The FCFcl Cavity Clad provides a resilient lateral compression which is required to ensure a tight fit.

Installation FCFcl



Installation FCFcl



Technical data

	Item no.	Ap- pro- val	To suit cavity void width [mm]	Sales unit [pcs]
Item		ETA		
FCFcl 75	546210	•	1200 x 600 x 75	1
FCFcl 100	053046	•	1200 x 1000 x 100	1

IMPORTANT: Please provide TOTAL cavity width for your application, excluding any insulation there might be. FCFcl Cavity Clad shall be cut 5 mm (1/5 in.) or 10 mm (3/8 in.) oversize. * Depending on design & configuration of the FCFcl Cavity Clad.

Technical data

	Item no.	To suit cavity void width [mm]	Fire rating [hours]	Sales unit [pcs]
Item				
Multi Purpose Bracket	563201	230 x 25 x 1 (A2)	N/a	250
Multi Purpose Bracket	551868	390 x 25 x 1 (A2)	N/a	1
Multi Purpose Bracket	551954	500 x 25 x 1 (A2)	N/a	1

Technical data

Description	Foil faced structural stone wool composite
Fire resistance	EN 1366-4 up to 120 minutes
Thermal conductivity	0.35 bis 0.36 W/mK
Density	80 kg/m³
Base material	Stone wool
Accoustic performance	31 dB
Air permeability	600 pa - 100 pa 2.6/4.2 m³/h/m²
Thickness	-
Bracket	Required cavity ≥ 150 mm (2 per meter)
Compression	5 or 10 mm
Colour	inside yellow, outside silver
European Technical Assessment	ETA-21/1062
CE marking	2531-CPR-CX010328

VentiStop Cavity Barrier - FFB-VS

Effective ventilated fire barrier designed to close the void between the inner and outer construction elements.



FFB-VS VentiStop installed with Multi-Purpose Bracket



FFB-VS VentiStop installed with DHM Anchor

11

Applications

- Horizontal cavities between the inner and outer construction elements

Advantages

- Tested up to 120 minutes integrity and 90 minutes insulation (120 min insulation with FFB-VS HP80) utilising the heating and pressure conditions of EN 1363-1: 2017 and ASFP TGD19: 2014 - Open State Cavity Barriers.
- Suitable to close 25 & 50 mm ventilation

- gap
- Voids up to 450 mm wide
- Free of halogens, asbestos, fibres and silica and is non-toxic
- Long life expectancy
- Contributes to green building

Certificates / Features

BS 8414
EN 1363-1-TGD19
NFPA 285

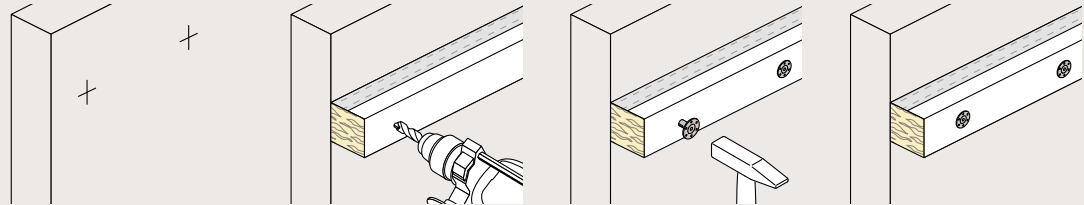
Building materials

- Concrete slabs, columns and walls

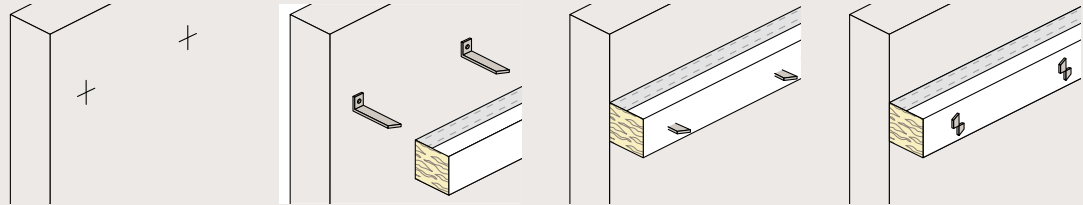
Functioning

- FFB-VS a foil-faced stone wool pre-cut unit, which has a powerful intumescent graphite strip bonded to the exposed face. The intumescent graphite strip is pre-wrapped with a durable polythene adhesive sheet to prevent water ingress.
- FFB-VS has been designed to provide a 25 & 50 mm ventilation gap, that allows air flow and moisture to pass down the back of the cladding. Under fire conditions, the powerful intumescent along the front edge expands horizontally to close the gap and prevent the passage of fire.

Installation FFB-VS with DHM



Installation FFB-VS with Multi Purpose Bracket



Technical data

Item	Item no.	To suit cavity void width	Sales unit
		[mm]	[pcs]
FFB-VS/25-50	521520	25 - 50	1
FFB-VS/51-100	521521	51 - 100	1
FFB-VS/101-150	521522	101 - 150	1
FFB-VS/151-200	521523	151 - 200	1
FFB-VS/201-250	521524	201 - 250	1
FFB-VS/251-300	521525	251 - 300	1
FFB-VS/301-350	521526	301 - 350	1
FFB-VS/351-400	521527	351 - 400	1
FFB-VS/401-450	521528	401 - 450	1

IMPORTANT: Please provide TOTAL cavity width for your application, excluding any insulation there might be.

Technical data

Item	Item no.	To suit cavity void width	Sales unit
		[mm]	[pcs]
FFB-VS50/51-100	545628	51 - 100	1
FFB-VS50/101-150	545629	101 - 150	1
FFB-VS50/151-200	545630	151 - 200	1
FFB-VS50/201-250	545631	201 - 250	1
FFB-VS50/251-300	545632	251 - 300	1
FFB-VS50/301-350	545633	301 - 350	1
FFB-VS50/351-400	545634	351 - 400	1
FFB-VS50/401-450	545635	401 - 450	1

IMPORTANT: Please provide TOTAL cavity width for your application, excluding any insulation there might be.

Technical data

Description	Foil faced stone wool with a black intumescent leading edge
Fire resistance	up to 120 min
Closure time - FFB-VS	< 5 min
Activation	approx. 180 °C
Expansion pressure	approx. 7 N/mm ²
Density	Stone wool - 90 kg/m ³ , intumescent 1.3 g/cm ³
Weather resistance	Yes
Sag	0 %
Open void size	25 - 50 mm
Dimensions	80 mm thick, 1000 mm long mm
Width	-
Fixing points (brackets or anchor DHM)	300 mm
Colour	White/red/silver/black

Technical data

		To suit cavity void width	Colour	Fire rating	Sales unit
	Item no.	[mm]		[hours]	[pcs]
Item					
Multi Purpose Bracket	563201	230 x 25 x 1 (A2)	silver	N/a	250
Multi Purpose Bracket	551868	390 x 25 x 1 (A2)	silver	N/a	1
Multi Purpose Bracket	551954	500 x 25 x 1 (A2)	silver	N/a	1
FCI Cassette tray cavity barrier	554125	1200 x 100 x 50	silver	N/a	1



12

References

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Post HQ · Luxembourg · Luxembourg

Helix Post

Luxembourg

Architect: Metaform Architects
System: FLH-R, ATK100
Material: ACM, Metall



2555 Broadway

New York

Architect: Thomas Juul Hansen
System: SystemOne, FZP II
Material: Dietfurt Limestone



99 Hudson Street

Jersey City



Architect: Perkins Eastman
System: FZP II
Material: Jura limestone

Office Building

Venlo

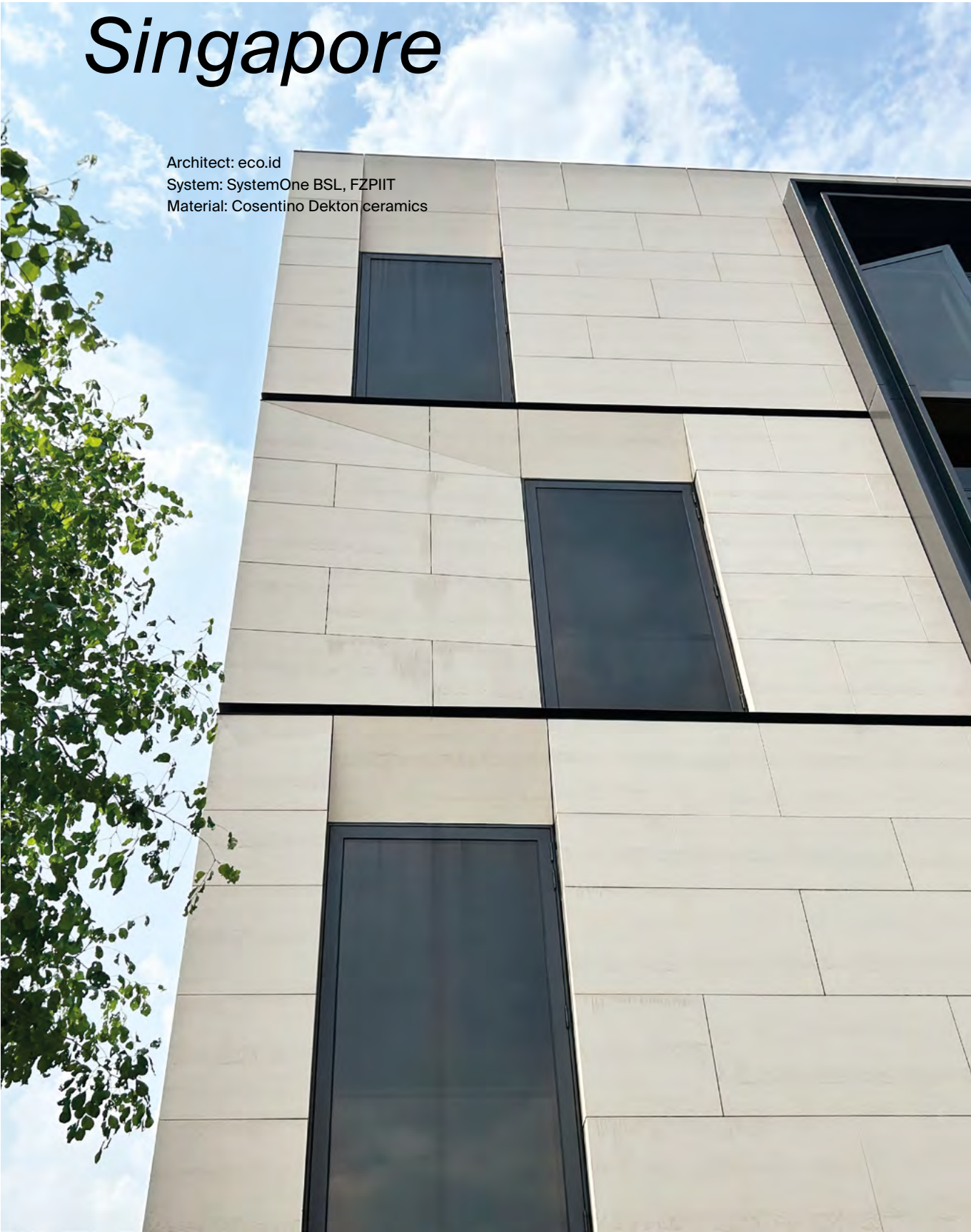


Architect: Jo Coenen
System: FZP II T PA Tergo+
Material: Equitone fiber cement

Dalvey Haus

Singapore

Architect: eco.id
System: SystemOne BSL, FZPIIT
Material: Cosentino Dekton ceramics



De Werf 44

Schilde

Architect: Conix RDBM Architects
System: FZP II TPA
Material: Royal Mosa ceramics



Hanwha Institute

Suanbo

Architect: AI Architects
System: FZP II TPA
Material: Royal Mosa ceramics



Mu Jiaoxi Hotel

Taipei

Architect: TMA Architects and Associates
System: FZP II TPA
Material: Cosentino Dekton ceramics





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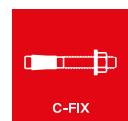




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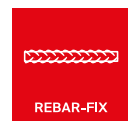
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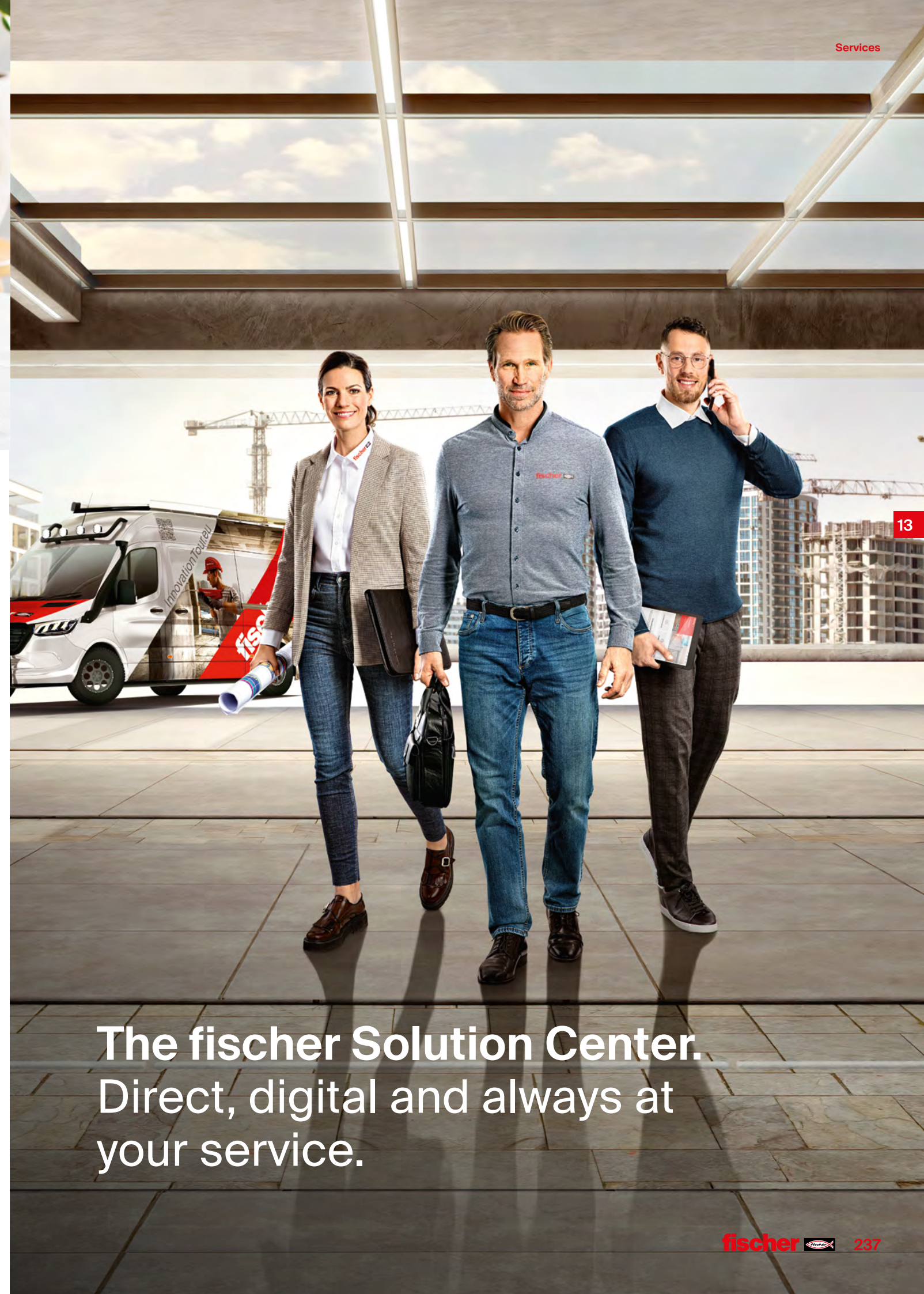
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