fischer

Catalogue
Façade Systems

La Grande Arche · Paris · France

„Innovative strength and technological competence strenghten our position at Market.“

Foreword

Dear business partners,

ventilated curtain walls (VHF) combine a stylish appearance with modern technology that meets current requirements for contemporary thermal insulation. We offer innovative and high-quality complete solutions from a single source for the secure fixing of VHF. In addition to technical and economic advantages, our façade systems score points with their great freedom of design.

Thanks to undercut technology, our Zykon FZP II plate anchors exceed the holding forces and performance characteristics of conventional fixing solutions many times over. Thus, façade panels with small thicknesses and large formats can be installed. Different designs are suitable for almost all cladding materials. The undercut technology also ensures a joint pattern without visible fastening elements. We also have the right solutions for replacing panels, fixing in reveals or compensating for tolerances.
Our optimally coordinated complete system with panel anchors, suitable subframe solutions and anchor technology as well as sophisticated drilling technology speeds up and simplifies installation, shortens the construction time and consequently reduces your project costs.
With our comprehensive range of services, we support both planners and contractors worldwide in all construction phases – from consulting and dimensioning, approval procedures, installation and logistics planning to on-site instruction.

We are looking forward to the mutual exchange of ideas and the continued close cooperation with you. Your suggestions are very valuable to us in order to continuously improve our products, processes and services. Feel free to contact us at any time with your questions and projects.

Have fun discovering our latest façade systems!

Christian Knoll
Managing Director fischer SystemTec

„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.

Continious improvement

The fischer ProzessSystem (fPS) we ensure that we areadapting and optimising our processes in line with customer requirements in a fl exible manner and on a continuous basis. Thus we are glad having been awarded with the 1. place “Excellence in Operations” within the challenging contest “Factory of the Year”.

DIE FABRIK DES JAHRES
Global Excellence in Operations
Produktion ATKearney

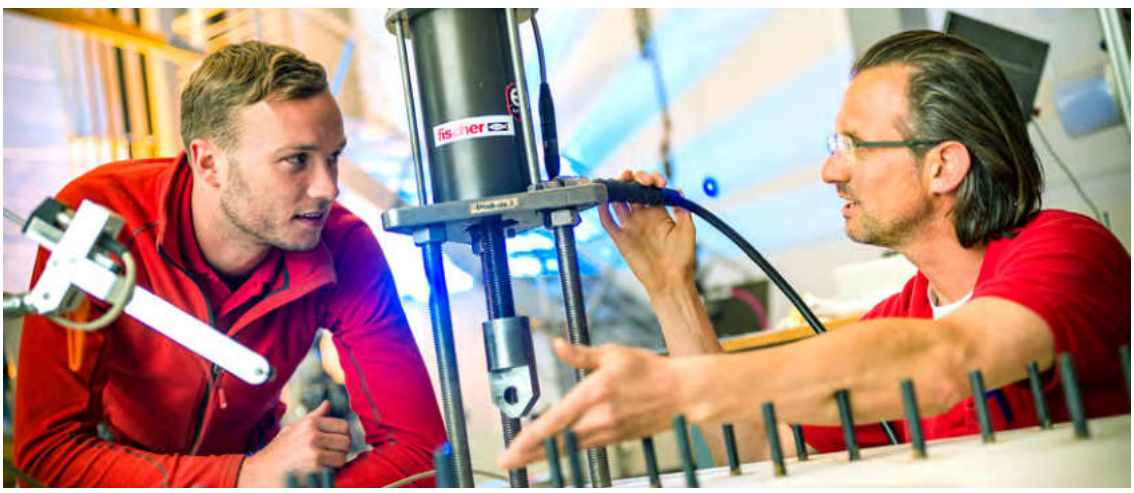
Award 2015
Exellence in Operations

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 Chemical fixings. In awardwinning quality which continues to impress both professional clients and private customers with equal measure.

ICC ES ESR-1990 | See ICC-ES Evaluation Report at www.icc-es.org | ETA | CE

International approvals characterise many of our products.



Always on the pulse of time

IAt fischer, innovation is more than just a sum of the patents. We are open to new things and are prepared for change – always with the aim of off ering our customers the greatest possible benefits. Over the years, our own development and production sites have been developing numerous fixing solutions for the most wideranging 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 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. Also on-site at the construction site requested.
- Training sessions, some with accreditation, at your premises or at the fischer academy.
- 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 site has been certified in line with DIN EN ISO 14001.
It fills us with particular pride that in 2020 we have received the most important and largest award in Europe in the field of sustainability: the German Sustainability Award - 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%.

BIOBASED 50 - 85 %
DIN Geprüft
8C029

Greenline assortment based on 50% regrowing raw materials

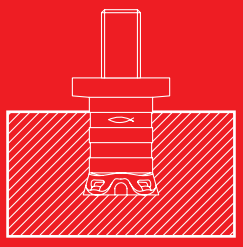
Deutscher Nachhaltigkeitspreis 2020
SIEGER
Großunternehmen

German Sustainability Award

About fischer façade systems:

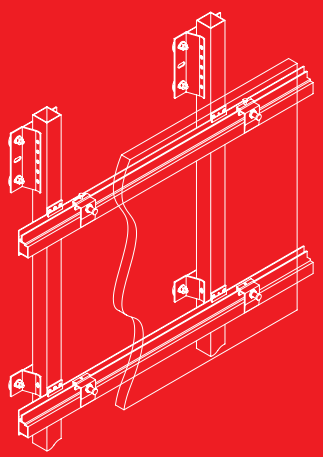
1. Undercut technolgy

The fischer undercut technology contains several compatible components whose correct combination is necessary for the secure fixing of the façade panels:



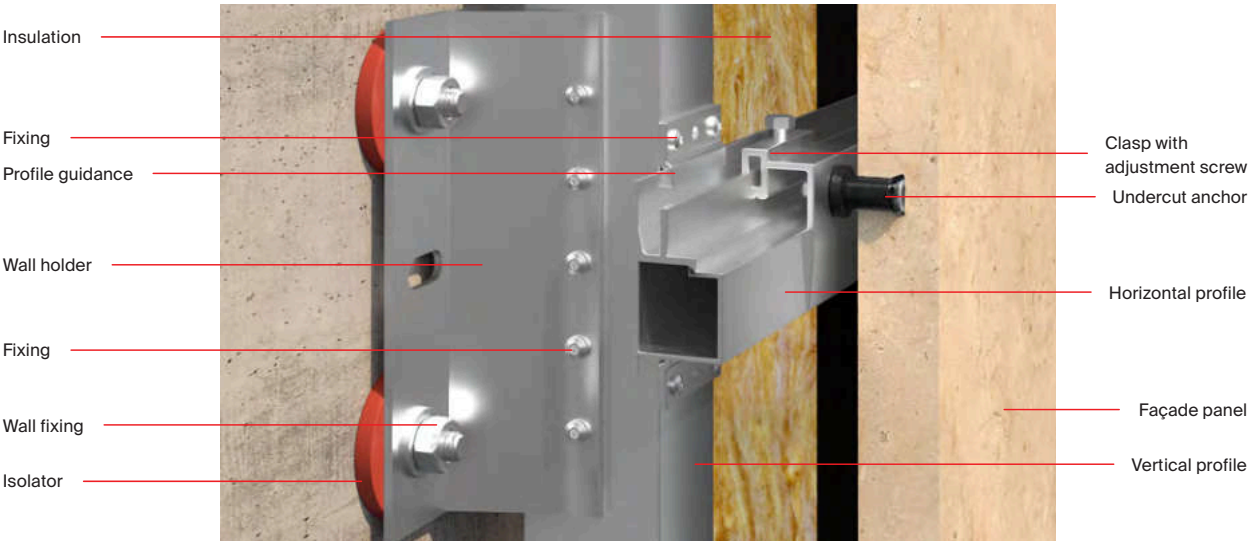
2. Subframe systems

The subframe systems consists of different components for load bearing and compensation of building substrate tolerances. Therefore following system components are neccessary:



Façade cross-section and system advantages.

System overview based on a façade cross-section:



Advantages fischer façade system:

- On-site support
- Technology leadership beyond the state-of-the-art
- Fast supply and installation of the system
- Global availability and supply of a complete system from a single source
- Cost efficiency of the overall system with fischer quality
- Approved and third-party certified systems and in-house test laboratory

FRAC · Marseille · France

Innovations that inspire professionals.

1

Bahai Tempel · Santiago de Chile · Chile

1 Introduction

1

Functional principle rainscreen façades.

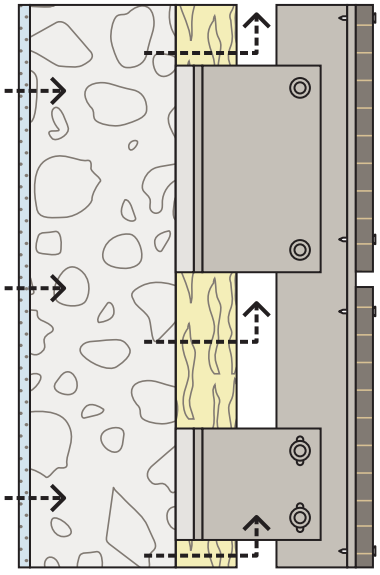
Rainscreen façades

A rainscreen façade is a ventilated double-layer cladding system which structurally separates the weather protection and insulation functions.
Based on many advantages compared to sealed façade systems rainscreen systems have become very popular nowadays.
The façade system consists of the cladding material, the rear ventilation cavity, the insulation material and the subframe system, which is the structural connection between the façade cladding material and the building substrate.

Besides the aesthetic advantages there are also functional and safety benefits, which include the rear ventilation cavity and non-combustible insulation materials. These systems are less susceptible to damage than other façade systems and provide a wide freedom of design. In addition, fire, noise and lightning protection requirements can be implemented.

fischer offers innovative, high-quality overall façade systems for rainscreen façades. Besides functional and economical advantages, the fischer façade systems provide above all an outstanding architectural creative scope.
fischer façade systems are perfectly matched complete systems with many advantages:

- Long system life times
- Quick and easy installation
- Tested and approved single components
- Great architectural freedom of design
- Very low maintenance intervals
- Low maintenance costs
- Efficient thermal solution
- Shortened construction times
- Etc.



Functional principle rainscreen façade with system components

Office building · Venlo · Netherlands

Freedom of design – fixed securely.

Requirements for modern façades are:

- A visually impressive design
- Beeing technically state-of-the-art
- Economic efficiency during installation and over the entire life cycle

Whether in the construction or fixing of complete façade systems, whether in the installation of windows, the attachment of ETICS systems or in insulating, sealing and foaming, let us convince you of our products and their possible applications.

fischer offers economical and innovative solutions for a wide range of façade applications:

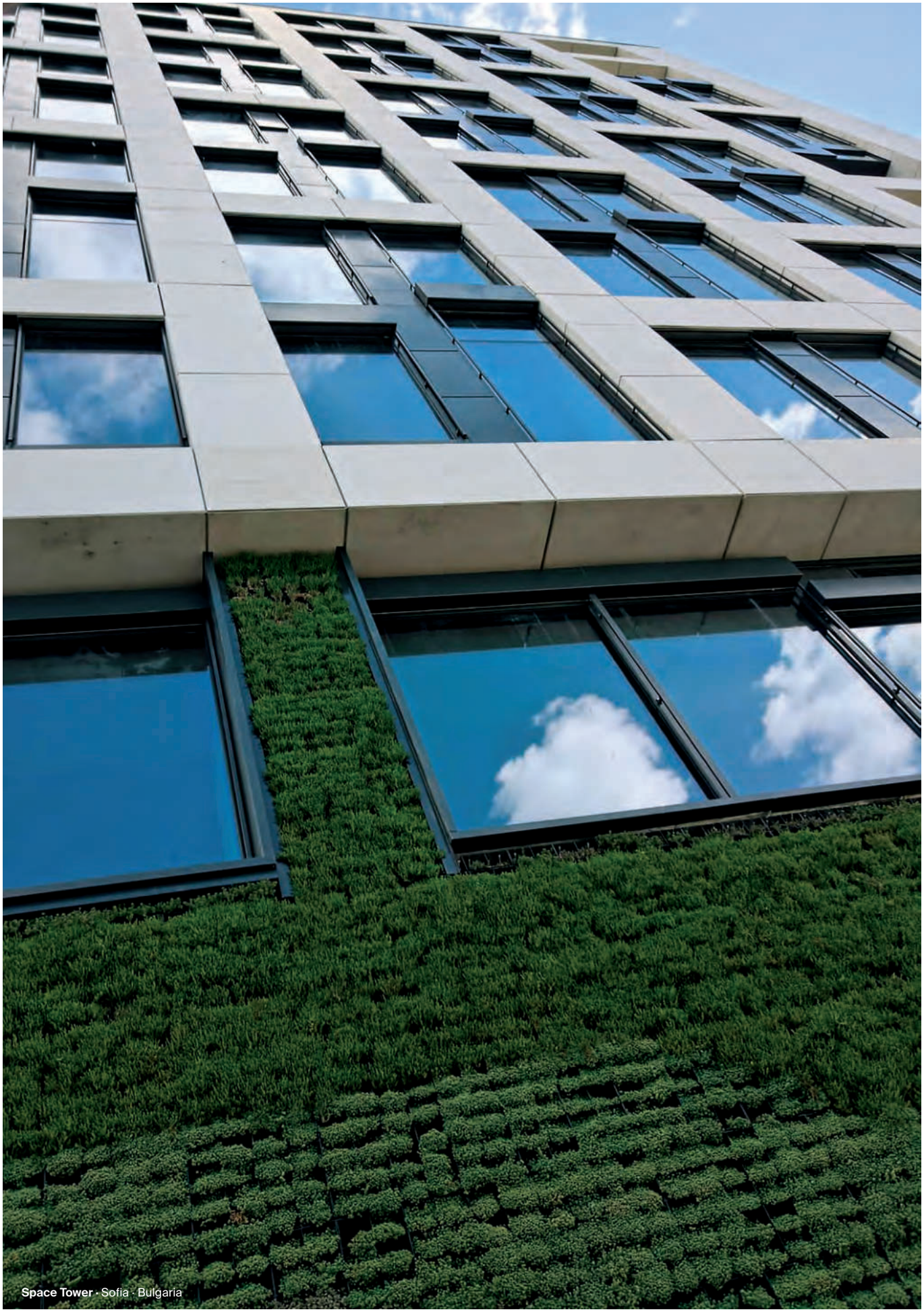
- Heavy duty fixings in concrete
- Bespoke solutions and systems for a wide range of building materials
- Insulation plugs for ETICS
- Façade panel anchors
- Subframe systems
- Foams and sealants

Provide your projects the stability they deserve:

fischer façade systems offer architects and planners innovative, high-quality full façade systems for rainscreen façades. Besides functional and economical advantages, the fischer façade systems provide above all an outstanding architectural creative scope.

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

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



Space Tower · Sofia · Bulgaria

Cahir Castle · Tipperary · Ireland

Why façade systems from fischer are the right choice.

Choosing fischer

fischer is one of the most recognized brands in the world. We are a German-based family owned business with headquarter located in Waldachtal, in Germany's Northern Black Forest. fischer specializes in innovative chemical, steel and nylon anchoring systems for the construction industry. Our products range from small nylon anchors to advanced façade systems.
We're committed to developing the best solutions possible for our customers across the globe. This means we're committed to every aspect of quality, design and safety.

Innovative strength

At fischer, innovation is more than just a sum of patents. We are always open to new things and are prepared for change, with the aim of offering our customers the greatest possible benefits. Over the years, our own development and production sites have been creating numerous fixing solutions for the widest range of applications. This has contributed to our product range having more than 14,000 anchors and solutions and more than 7,000 patents.

Quality you can rely on

We do not compromise when it comes to safety. We test and certify our products to comply with international approvals and certifications. As leaders in steel, nylon and chemical fastening, we develop and provide impressive, award-winning solutions that support a variety of applications.

The fischer façade systems are not limited to innovative system solutions - they are just starting here:

As fixing specialists we offer architects, planners and craftsmen full support from the planning phase through static calculations to just-in-time delivery to the construction site.
The provision of planning software and instruction for installers are also part of the service, as is advising on the selection of the right systems.

The service offers for fischer façade systems at a glance

- Application technology services
- Determination of pull out loads and preparation of structural pre-calculations
- Advice on the selection of the right system components
- Support for architects, designers, structural engineers and contractors in all phases of their construction projects
- Support with licensing procedures
- Demonstration and instruction by our trained employees
- Services for machines
- Worldwide and local representatives
- fischer is a member of the professional association: Fachverband Baustoffe und Bauteile für vorgehängte hinterlüftete Fassaden e.V.

Downtown - Auckland - New Zealand

2

Zykon-Panel anchor FZP II

ZYKON-PANEL ANCHOR FOR NATURAL STONE

ZYKON PANEL ANCHOR FOR THIN FAÇADE PANELS

ZYKON-PANEL ANCHOR FOR SAFETY GLASS

2

Differences in materiality.

Naturally Stone.

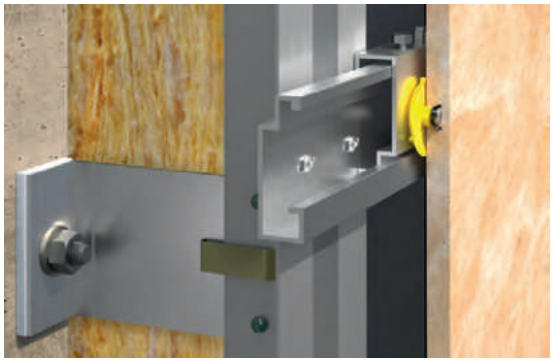
Natural stone is a very sustainable building material as stones are natural materials, which may be sourced globally. The façade panel thicknesses range from 20 mm to 60 mm. fischer Zykon panel anchors can be used from a panel thickness of 20 mm. In addition, tolerances in panel flatness can be accommodated with our stand-off anchors. With 35 years of experience, fischer provides support with material testing for the assessment of design resistances.

The fischer natural stone anchors:

- FZP II A4
- FZP II Carbon
- FZP II SO AL
- FZP II SO Carbon
- FZP II VS
- FZP II SH
- FZP II M8i
- FZP II M6i

Artificial ceramics.

Ceramic tiles are artificial materials. Typical for this type of cladding material is a wide range of colours and surface textures.
The thickness of the façade panels range from 8 mm to 20 mm. The fischer Zykon panel anchors can be used from a thickness of 10 mm. The large disc of the anchor prevents a misalignment of the anchor when the ceramic panel has ribs on the back face.

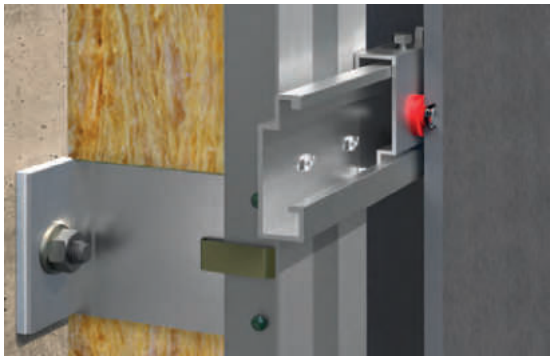


The fischer ceramic anchor:

- FZP II T D40

Thin panel materials.

The most well-known examples of thin panel materials are fiber cement and HPL (high-pressure laminates). Both are artificial materials. Typical for this type of cladding material is a wide range of colours and surface textures. The thickness of the façade panels usually range from 8 mm to 12 mm. The fischer Zykon panel anchors can be used from a panel thickness of 8 mm. fischer partners with many different suppliers for such materials.



Panel anchor for thin materials such as fibre cement and HPL:
- FZP II T PA
- Tergo+

View with glass.

fischer offers the world's first undercut glass point fixing for glazings made of single-pane safety glass (ESG or ESG-H from 10 mm glass thickness) and laminated safety glass (VSG from 8 + 10 mm glass thickness). The glass panels can be enamelled or coated and may also be used as carriers for laminated solar elements.
The German Institute for Building Technology (DIBt) in Berlin has issued the fischer Zykon point fixing (FZP-G) with a general technical approval. This revolutionary development is therefore state of the art and can now be applied without the need for project-specific approval for demanding glass façades. Through the application of undercut technology our company has succeeded in offering globally the first point fixing for glass, which does not fully penetrate the panel with a hole. The smooth exterior of the glass façade offers architects greater creative freedom and, at the same time, reduces the susceptibility to soiling and the required cleaning effort.
To install the point fixing, proprietary drilling and setting tools are required. Specially equipped and trained companies offer the finishing of the glazings and the assembly of the point fixings. On request we will be glad to arrange contact between you and these specialist installers.

The fischer glass anchor:
- FZP G-Z ESG
- FZP G-Z VSG

In case of any further questions regarding the different materials and their fixing solutions, we will be happy to advise you.

Zykon-Panel anchor FZP II A4

The universal undercut anchor made of A4 stainless steel for natural stone.

Flush installation in natural stone

Façade cross-section with flush installation

Applications

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

Certificates

ETA-11/0145

INOX STAINLESS STEEL

Advantages

- The adapted shape of the undercut anchor ensures a positive-locking attachment free from expansion pressure in a conical undercut drill hole.
- The fixing of the undercut anchor is not visible on the exposed side, creating a visually attractive and consistent façade surface.
- Setting the anchor using undercut technology allows the user to always select the optimal structural position in the façade panel. This greatly reduces panel deflection.
- The anchor allows for higher pull-out loads, compared to commonly available systems.
- The flush-mounting technology of the undercut anchor allows an easy, economical handling of reveals.

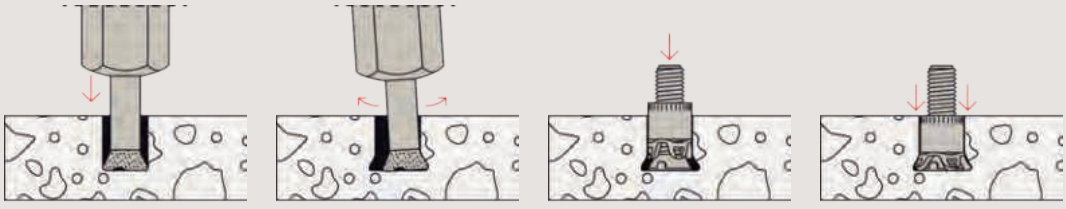
Functioning

- Use wet diamond drilling - first cylindrical, then conical - to drill an undercut hole.
- When the undercut anchor is installed, an optimal, positive-locking connection is created between the expanding part and the drill hole.
- The anchor is installed at the absolute anchoring depth and therefore flush with the material.

Building materials

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

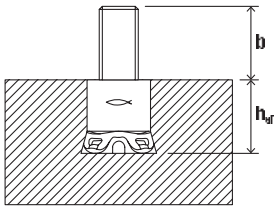
Installation FZP II A4



Al Hamra Tower · Kuwait

Technical data

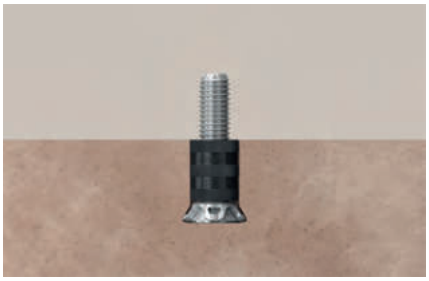
Zykon-Panel anchor FZP II A4



Item	Item No.	Approval ETA	Anchorage depth h_{ef} [mm]	Projection length b [mm]	Thread M	cylindrical diameter [mm]	Undercut-diameter [mm]	Min. panel thickness [mm]	Sleeve material	Sales unit [pcs]
FZP II 11 x 12 M6/13 A4	**512131**	●	12	13	M 6	11	13.5	20	stainless steel	250
FZP II 11 x 12 M6/18 A4	**512133**	●	12	18	M 6	11	13.5	20	stainless steel	250
FZP II 11 x 15 M6/10 A4	**512134**	●	15	10	M 6	11	13.5	30	stainless steel	250
FZP II 11 x 15 M6/18 A4	**512135**	●	15	18	M 6	11	13.5	30	stainless steel	250
FZP II 13 x 15 M8/10 A4	**512136**	●	15	10	M 8	13	15.5	30	stainless steel	250
FZP II 13 x 15 M8/15 A4	**512137**	●	15	15	M 8	13	15.5	30	stainless steel	250
FZP II 13 x 15 M8/23 A4	**512138**	●	15	23	M 8	13	15.5	30	stainless steel	250
FZP II 13 x 15 M8/28 A4	**512139**	●	15	28	M 8	13	15.5	30	stainless steel	250
FZP II 13 x 17 M8/17 A4	**512140**	●	17	17	M 8	13	15.5	30	stainless steel	250
FZP II 13 x 21 M8/9 A4	**512141**	●	21	9	M 8	13	15.5	35	stainless steel	250
FZP II 13 x 21 M8/17 A4	**512142**	●	21	17	M 8	13	15.5	35	stainless steel	250
FZP II 13 x 21 M8/22 A4	**512143**	●	21	22	M 8	13	15.5	35	stainless steel	250

Zykon-Panel anchor FZP II Carbon

The universal carbon fibre-reinforced undercut anchor for natural stone.



Flush installation in natural stone

Façade cross-section with flush installation

Applications

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

Certificates

ETA-11/0145

INOX STAINLESS STEEL

Advantages

- The adapted shape of the undercut anchor ensures a positive-locking attachment free from expansion pressure in a conical undercut drill hole.
- The fixing of the undercut anchor is not visible on the exposed side, creating a visually attractive and consistent façade surface.
- Setting the anchor using undercut technology allows the user to always select the optimal structural position in the façade panel. This greatly reduces panel deflection.
- The anchor allows for higher pull-out loads, compared to commonly available systems.
- The flush-mounting technology of the undercut anchor allows an easy, economical handling of reveals.

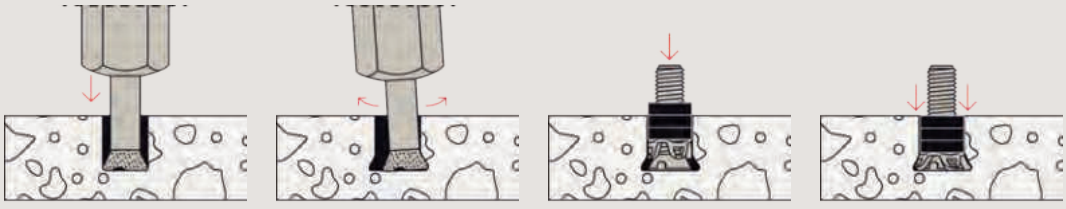
Functioning

- Use wet diamond drilling - first cylindrical, then conical - to drill an undercut hole.
- When the undercut anchor is installed, an optimal, positive-locking connection is created between the expanding part and the drill hole.
- The anchor is installed at the absolute anchoring depth and therefore flush with the material.

Building materials

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

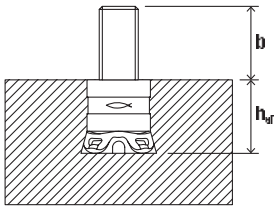
Installation FZP II Carbon



Court Complex · Hawaaly · Kuwait

Technical data

Zykon-Panel anchor FZP II Carbon



Item	Item No.	Approval ETA	Anchorage depth h_{ef} [mm]	Projection length b [mm]	Thread M	cylindrical diameter [mm]	Undercut-diameter [mm]	Min. panel thickness [mm]	Sleeve material	Sales unit [pcs]
FZP II 11 x 12 M6/13 CARBON	**511966**	●	12	13	M 6	11	13.5	20	Carbon	250
FZP II 11 x 12 M6/18 CARBON	**511967**	●	12	18	M 6	11	13.5	20	Carbon	250
FZP II 11 x 15 M6/10 CARBON	**511968**	●	15	10	M 6	11	13.5	30	Carbon	250
FZP II 11 x 15 M6/18 CARBON	**511969**	●	15	18	M 6	11	13.5	30	Carbon	250
FZP II 13 x 15 M8/10 CARBON	**511970**	●	15	10	M 8	13	15.5	30	Carbon	250
FZP II 13 x 15 M8/15 CARBON	**511971**	●	15	15	M 8	13	15.5	30	Carbon	250
FZP II 13 x 15 M8/23 CARBON	**511972**	●	15	23	M 8	13	15.5	30	Carbon	250
FZP II 13 x 15 M8/28 CARBON	**511973**	●	15	28	M 8	13	15.5	30	Carbon	250
FZP II 13 x 17 M8/17 CARBON	**511980**	●	17	17	M 8	13	15.5	30	Carbon	250
FZP II 13 x 21 M8/9 CARBON	**511974**	●	21	9	M 8	13	15.5	35	Carbon	250
FZP II 13 x 21 M8/17 CARBON	**511975**	●	21	17	M 8	13	15.5	35	Carbon	250
FZP II 13 x 21 M8/22 CARBON	**511976**	●	21	22	M 8	13	15.5	35	Carbon	250

Zykon-Panel anchor FZP II SO AL

The adjusting undercut anchor made of A4 stainless steel for natural stone.

Stand-off installation in natural stone

Façade cross-section with stand-off installation

Applications

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

Certificates

ETA-11/0145

INOX STAINLESS STEEL

Advantages

- The adapted shape of the undercut anchor ensures a positive-locking attachment free from expansion pressure in a conical undercut drill hole.
- The fixing of the undercut anchor is not visible on the exposed side, creating a visually attractive and consistent façade surface.
- Setting the anchor using undercut technology allows the user to always select the optimal structural position in the façade panel. This greatly reduces panel deflection.
- The anchor allows for higher pull-out loads, compared to commonly available systems.
- Using a constant remaining wall thickness as a reference value when drilling holes allows users to compensate panel thickness tolerances.

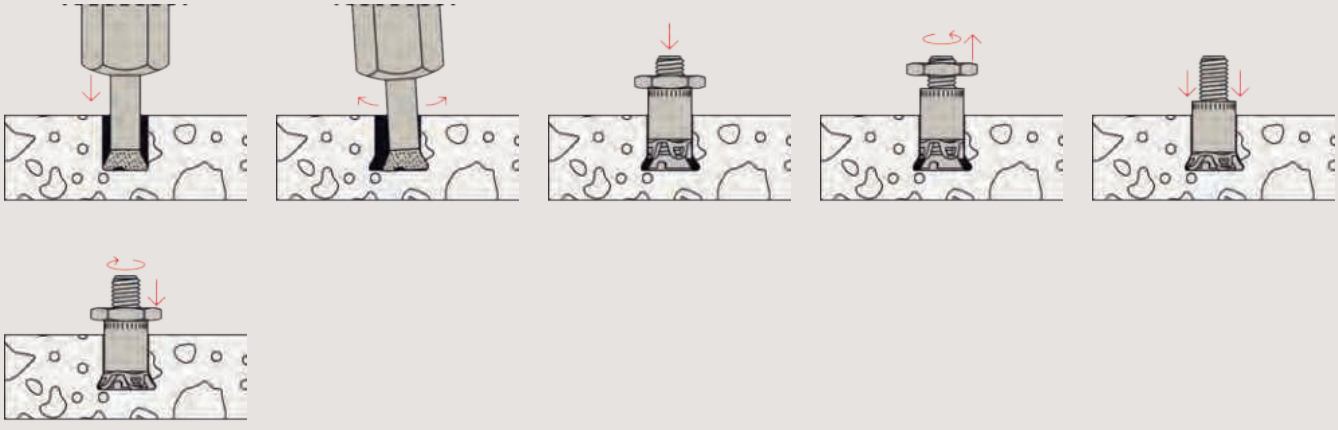
Functioning

- Wet diamond drilling - first cylindrical to a constant reference dimension for the remaining wall thickness (RWT), then conical to create an undercut drill hole.
- When the undercut anchor is installed, an optimal positive-locking connection is created between the expanding part and the drill hole.
- The anchor is installed in the conical undercut drill hole using stand-off installation.
- The ability to compensate for panel thickness tolerances helps create a flat façade surface.

Building materials

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

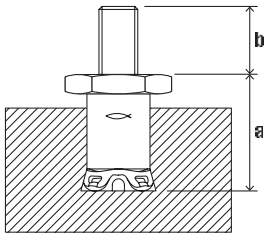
Installation FZP II SO AL



99 Hudson · New York · USA

Technical data

Zykon-Panel anchor
FZP II SO AL



Item	Item No.	Approval ETA	Installed anchor length a [mm]	Anchorage depth h_{ef} [mm]	Projection length b [mm]	Thread M	cylindrical diameter [mm]	Undercut-diameter [mm]	Min. panel thickness [mm]	Sleeve material	Sales unit [pcs]
FZP II 11 x 21 M6/SO/9 AL	**512144**	●	21	12 - 16	9	M 6	11	13.5	20	stainless steel	250
FZP II 11 x 21 M6/SO/12 AL	**512145**	●	21	12 - 16	12	M 6	11	13.5	20	stainless steel	250
FZP II 13 x 26 M8/SO/17 AL	**512146**	●	26	15 - 21	12	M 8	13	15.5	30	stainless steel	250
FZP II 13 x 30 M8/SO/13 AL	**513226**	●	30	15 - 25	12	M 8	13	15.5	30	stainless steel	250
FZP II 13 x 26 M8/SO/12 AL	**538088**	●	26	15 - 21	12	M 8	13	15.5	30	stainless steel	250

Zykon-Panel anchor FZP II SO Carbon

The adjusting carbon fibre-reinforced undercut anchor for natural stone.

Stand-off installation in natural stone

Façade cross-section with stand-off installation

Applications

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

Certificates

ETA-11/0145

INOX STAINLESS STEEL

Advantages

- The adapted shape of the undercut anchor ensures a positive-locking attachment free from expansion pressure in a conical undercut drill hole.
- The fixing of the undercut anchor is not visible on the exposed side, creating a visually attractive and consistent façade surface.
- Setting the anchor using undercut technology allows the user to always select the optimal structural position in the façade panel. This greatly reduces panel deflection.
- The anchor allows for higher pull-out loads, compared to commonly available systems.
- Using a constant remaining wall thickness as a reference value when drilling holes allows users to compensate panel thickness tolerances.

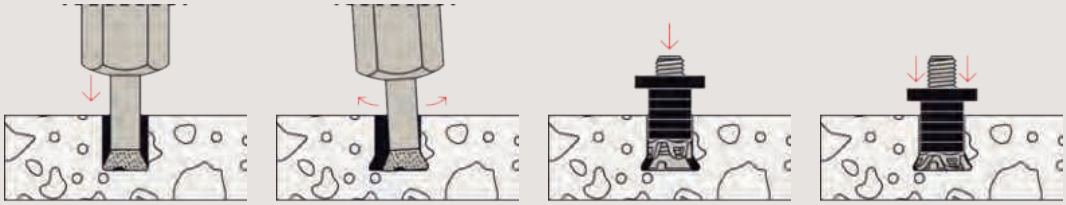
Functioning

- Wet diamond drilling - first cylindrical to a constant reference dimension for the remaining wall thickness (RWT), then conical to create an undercut drill hole.
- When the undercut anchor is installed, an optimal positive-locking connection is created between the expanding part and the drill hole.
- The anchor is installed in the conical undercut drill hole using stand-off installation.
- The ability to compensate for panel thickness tolerances helps create a flat façade surface.

Building materials

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

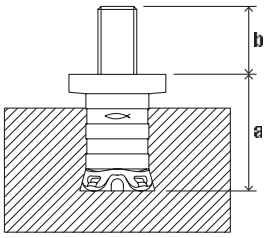
Installation FZP II SO Carbon



La Grande Arche · Paris · France

Technical data

Zykon-Panel anchor
FZP II SO Carbon

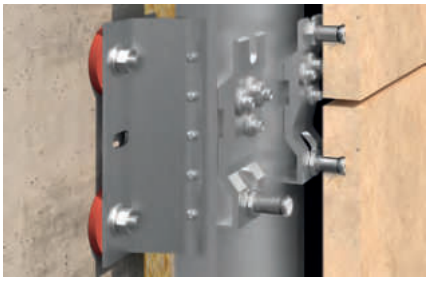


Item	Item No.	Approval ETA	Installed anchor length a [mm]	Anchorage depth h_{ef} [mm]	Projection length b [mm]	Thread M	cylindrical diameter [mm]	Undercut-diameter [mm]	Min. panel thickness [mm]	Sleeve material	Sales unit [pcs]
FZP II 11 x 21 M6/SO/9 CARBON	**511977**	●	21	12 - 16	9	M 6	11	13.5	20	Carbon	250
FZP II 11 x 21 M6/SO/12 CARBON	**511978**	●	21	12 - 16	12	M 6	11	13.5	20	Carbon	250
FZP II 13 x 26 M8/SO/12 CARBON	**538087**	●	26	15 - 21	12	M 8	13	15.5	30	Carbon	250
FZP II 13 x 26 M8/SO/17 CARBON	**511979**	●	26	15 - 21	17	M 8	13	15.5	30	Carbon	250

Zykon-Panel anchor FZP II VS

The suspension anchor with the fischer Vertical Solution for natural stone façade panels.

Suspension anchor in natural stone



Façade cross-section with suspension anchor

Applications

- Exterior façades with high aesthetic requirements and a reduced wall construction
- Interior façades with high aesthetic requirements and a reduced wall construction

Certificates

ETA-11/0145

INOX STAINLESS STEEL

Advantages

- The adapted shape of the undercut anchor ensures a positive-locking attachment free from expansion pressure in a conical undercut drill hole.
- The fixing of the undercut anchor is not visible on the exposed side, creating a visually attractive and consistent façade surface.
- Setting the anchor using undercut technology allows the user to always select the optimal structural position in the façade panel. This greatly reduces panel deflection.
- The anchor allows for higher pull-out loads, compared to commonly available systems.
- Using a constant remaining wall thickness as a reference value when drilling holes allows users to compensate panel thickness tolerances.

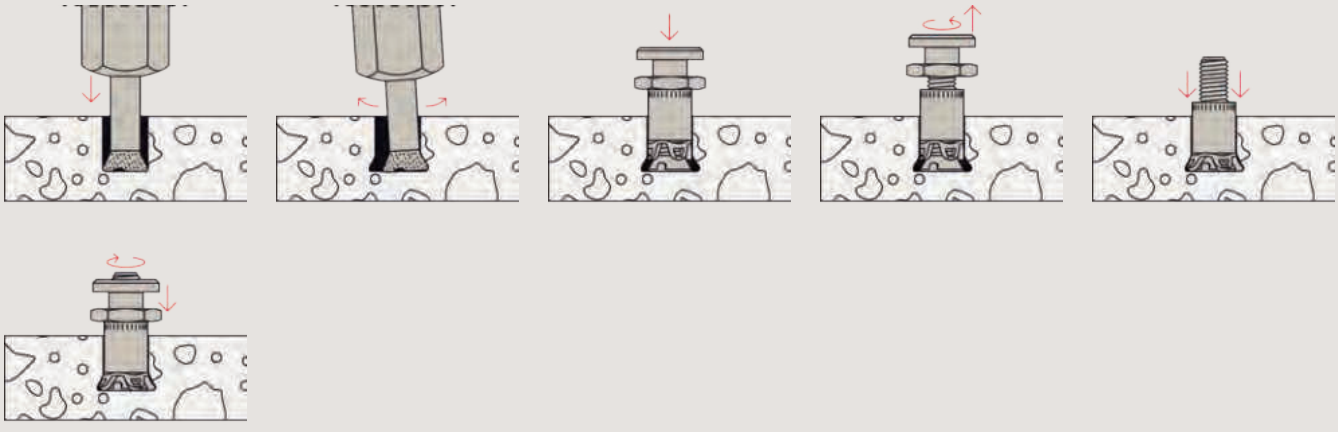
Functioning

- Wet diamond drilling - first cylindrical to a constant reference dimension for the remaining wall thickness (RWT), then conical to create an undercut drill hole.
- When the undercut anchor is installed, an optimal positive-locking connection is created between the expanding part and the drill hole.
- The anchor is installed in the conical undercut drill hole using stand-off installation.
- The ability to compensate panel thickness tolerances helps create a flat façade surface.
- Suspension brackets designed based on a lock and key principle are also used during installation.

Building materials

- Natural stone (≥ 20mm)

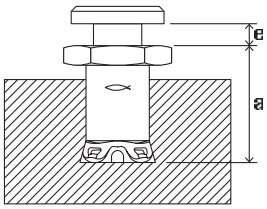
Installation FZP II VS



Concorde Hotel · Berlin · Germany

Technical data

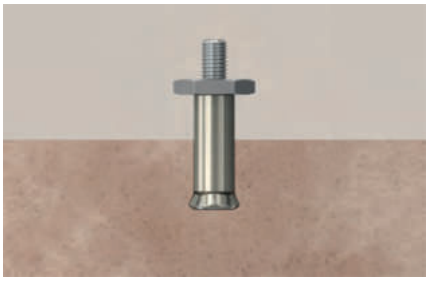
Zykon-Panel anchor FZP II VS



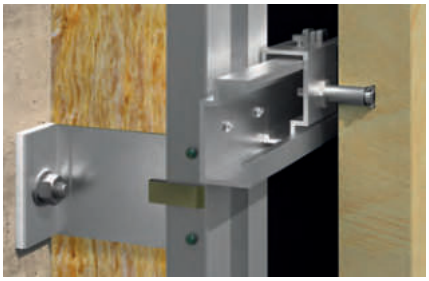
Item	Item No.	Approval ETA	Installed anchor length a [mm]	Anchorage depth h_{ef} [mm]	Useable length e [mm]	Thread M	cylindrical diameter [mm]	Undercut-diameter [mm]	Min. panel thickness [mm]	Sleeve material	Sales unit [pcs]
FZP II 11 x 21 M6/VS/4 AL	**512147**	●	21	12 - 16	4.5	M 6	11	13.5	20	stainless steel	250
FZP II 13 x 26 M8/VS/4 AL	**512148**	●	26	15 - 21	4.5	M 8	13	15.5	30	stainless steel	250
FZP II 13 x 30 M8/VS/4 AL	**512149**	●	30	15 - 25	4.5	M 8	13	15.5	30	stainless steel	250

Zykon-Panel anchor FZP II SH

The undercut anchor for soft stone façade panels.



Undercut anchor in soft natural stone



Façade cross-section with soft stone anchor

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

EDELSTAHL® Rostfrei

INOX STAINLESS STEEL

Advantages

- The adapted shape of the undercut anchor ensures a positive-locking attachment free from expansion pressure in a conical undercut drill hole.
- The attachment point is not externally visible, creating a visually attractive and consistent façade surface.
- Setting the anchor using undercut technology allows the user to always select the optimal structural position in the façade panel. This greatly reduces panel deflection.
- The anchor allows for higher breaking loads, compared to commonly available systems.
- Using a constant remaining wall thickness as a reference value when drilling holes allows users to compensate for panel thickness tolerances.

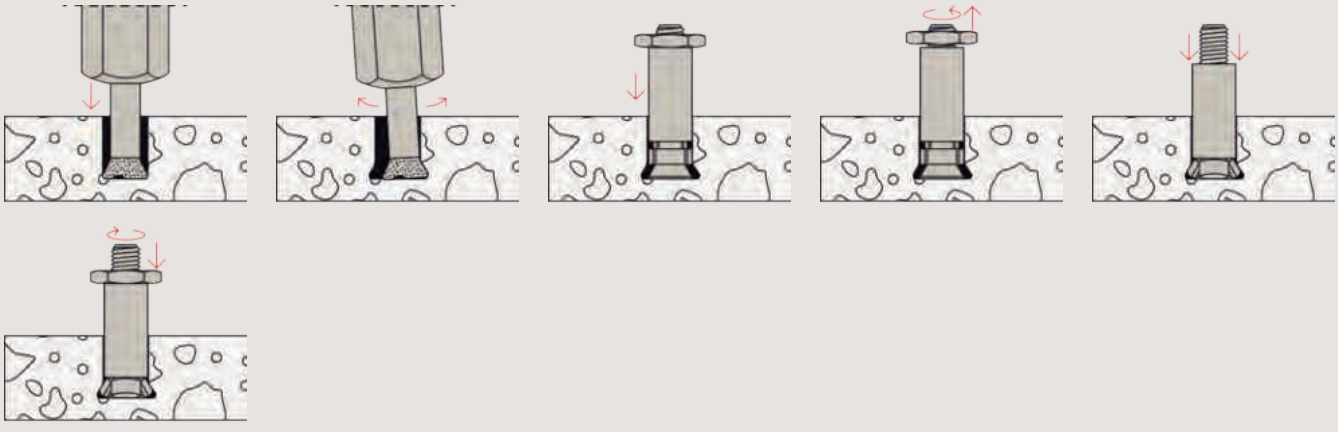
Functioning

- Wet diamond drilling - first cylindrical, depending on the application either to the absolute anchoring depth or to a constant reference dimension for the remaining wall thickness (RWT), then conical to create an undercut drill hole.
- When the undercut anchor is installed, an optimal positive-locking connection is created between the expanding part and the drill hole.
- The anchor can either be installed flush to the absolute anchoring depth or can be installed in the conical undercut drill hole using stand-off installation.
- The ability to compensate panel thickness tolerances helps create a flat façade surface.

Building materials

- Natural stone (stone group IV) (≥ 50mm)

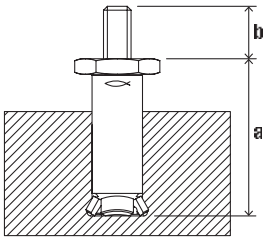
Installation FZP II SH



Bucherer · Zurich · Switzerland

Technical data

Zykon-Panel anchor FZP II SH



Item	Item No.	Installed anchor length a [mm]	Anchorage depth h_{ef} [mm]	Projection length b [mm]	Thread M	cylindrical diameter [mm]	Undercut-diameter [mm]	Min. panel thickness [mm]	Sleeve material	Sales unit [pcs]
FZP 13 x 30 M8//23 SH A4	**521103**	30	30	23	M 8	13	17.3	50	stainless steel	50
FZP 13 x 41 M8/SO/19 SH AL	**521104**	41	30 - 36	19	M 8	13	17.3	50	stainless steel	50

Zykon-Panel anchor FZP II M8i

The undercut anchor with an internal thread for M8 threaded screws in natural stone façade panels.

Internal threaded anchor in natural stone

Façade cross-section with internal threaded anchor

Applications

- Exterior façades
- Interior façades
- Façade reveals

Certificates

ETA-11/0145

INOX STAINLESS STEEL

Advantages

- The adapted shape of the undercut anchor ensures a positive-locking attachment free from expansion pressure in a conical undercut drill hole.
- The fixing of the undercut anchor is not visible on the exposed side, creating a visually attractive and consistent façade surface.
- The anchor allows for higher pull-out loads, compared to commonly available systems.
- 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.

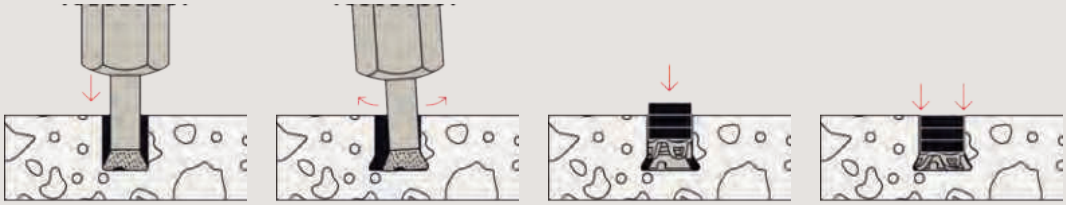
Functioning

- Wet diamond drilling - first cylindrical, depending on the application either to the absolute anchoring depth or to a constant reference dimension for the remaining wall thickness (RWT), then conical to create an undercut drill hole.
- When the undercut anchor is installed, an optimal positive-locking connection is created between the expanding part and the drill hole.
- The anchor can either be installed flush to the absolute anchoring depth or can be installed in the conical undercut drill hole using stand-off installation.
- The ability to compensate panel thickness tolerances helps create a flat façade surface.

Building materials

- Natural stone (≥ 20mm)

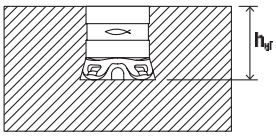
Installation FZP II M8i



fischer administration building · Waldachtal · Germany

Technical data

Zykon-Panel anchor
FZP II M8i



Item	Item No.	Approval ETA	Anchorage depth h_{ef} [mm]	cylindrical diameter [mm]	Undercutdiameter [mm]	Min. panel thick-ness [mm]	Sleeve material	Sales unit [pcs]
FZP II 15 x 12 M8i	**539478**	●	12	15	17.5	20	Carbon	250
FZP II 15 x 15 M8i	**539479**	●	15	15	17.5	25	Carbon	250
FZP II 15 x 21 M8i	**540298**	●	21	15	17.5	35	Carbon	250

These anchors are supplied with dust protection caps. These can be used to protect the internal thread from contamination if the undercut anchors are prefabricated at the factory and delivered to the construction site without an installed set thread.

Zykon-Panel anchor FZP II M6i

The undercut anchor with an internal thread for M6 threaded screws in natural stone façade panels.

Internal threaded anchor in natural stone

Façade cross-section with internal threaded anchor

Applications

- Indoor applications (such as wash basins, natural stone heating systems, ...)

Certificates

INOX STAINLESS STEEL

Advantages

- The adapted shape of the undercut anchor ensures a positive-locking attachment free from expansion pressure in a conical undercut drill hole.
- The fixing of the undercut anchor is not visible on the exposed side, creating a visually attractive and consistent façade surface.
- The high-quality material of the anchor allows for higher pull-out loads than commonly used systems.
- The integrated internal thread allows panels to be pre-fabricated and transported securely.

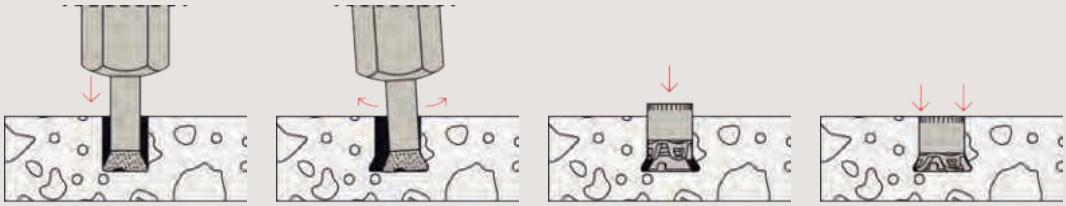
Functioning

- Wet diamond drilling - first cylindrical, depending on the application either to the absolute anchoring depth or to a constant reference dimension for the remaining wall thickness (RWT), then conical to create an undercut drill hole.
- When the undercut anchor is installed, an optimal positive-locking connection is created between the expanding part and the drill hole.
- The anchor can either be installed flush to the absolute anchoring depth or can be installed in the conical undercut drill hole using stand-off installation.
- The ability to compensate panel thickness tolerances helps create a flat façade surface.

Building materials

- Natural stone (≥ 20mm)

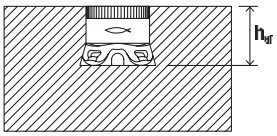
Installation FZP II M6i



Huyyu-Chen-Fong · Taiwan

Technical data

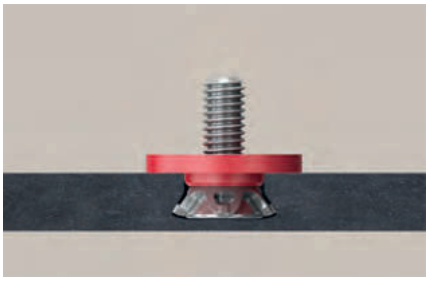
Zykon-Panel anchor
FZP II M6i



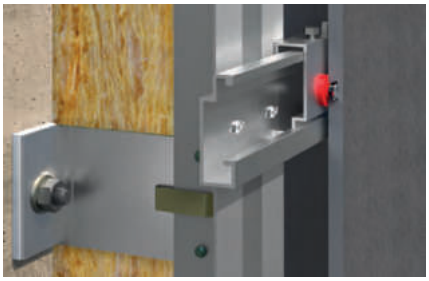
Item	Item No.	Anchorage depth h_{ef} [mm]	cylindrical diameter [mm]	Undercutdiameter [mm]	Min. panel thickness [mm]	Sleeve material	Sales unit [pcs]
FZP II 13 x 12 M6i	**512958**	12	13	15.5	20	Polyamide PA6	250

Zykon-Panel anchor FZP II T Tergo+

The specialist for thin fibre cement façade panels by Equitone.



Tergo+ in Equitone fibre cement boards



Façade cross-section with Tergo+ anchor

Applications

- Exterior façades
- Interior façades
- Façade reveals

Certificates

Advantages

- The anchors' short geometry allows it to be used in thin panels with a thickness greater than 8 mm.
- The fixing of the undercut anchor is not visible on the exposed side, creating a visually attractive and consistent façade surface.
- The adapted shape of the undercut anchor ensures a positive-locking attachment free from expansion pressure in a conical undercut drill hole.
- Setting the anchor using undercut technology allows the user to always select the optimal structural position in the façade panel. This greatly reduces panel deflection.
- The positive-locking anchor is free from expansion pressure and is attached at the fifth point in a structurally optimised location. This provides much better holding force than commonly available systems and allows for the use of large-format panels.

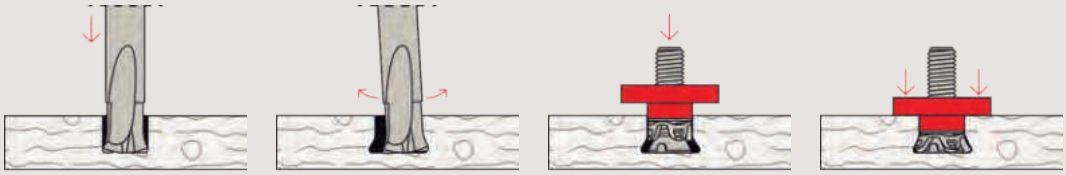
Functioning

- Use dry drilling with a diamond drill bit - first cylindrical, then conical - to drill an undercut hole.
- When the undercut anchor is installed, an optimal, positive-locking connection is created between the expanding part and the drill hole.
- The anchor is installed flush to the absolute anchoring depth. After the anchor is set, the spacer washer will be in full contact with the surface of the material.

Building materials

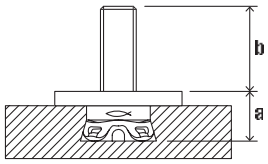
- Equitone fibre cement (≥ 8mm)

Installation FZP II T Tergo+



Cahir Castle · Tipperary · Ireland

Technical data



Tergo+ 11 x 6

Tergo+ 11 x 8

Tergo+ 11 x 10

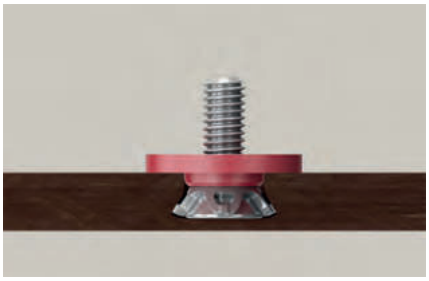
Item	Item No.	Approval DIBt	Installed anchor length a [mm]	Anchorage depth h_{ef} [mm]	Projection length b [mm]	Thread Ø x length [mm]	cylindrical diameter [mm]	Undercut-diameter [mm]	Min. panel thickness [mm]	Sleeve material	Sales unit [pcs]
Tergo+ 11 x 6 M6/T/10 PA	**532641**	●	8.5	6	10		11	13.5	8	Polyamide PA6	250
Tergo+ 11 x 6 M6/T/13 PA	**532642**	●	8.5	6	13		11	13.5	8	Polyamide PA6	250
Tergo+ 11 x 8 M6/T/10 PA	**537974**	●	10.5	8	10		11	13.5	12	Polyamide PA6	250
Tergo+ 11 x 8 M6/T/13 PA	**537975**	●	10.5	8	13		11	13.5	12	Polyamide PA6	250
Tergo+ 11 x 10 M6/T/9 PA	**532643**	●	12.5	10	9		11	13.5	14	Polyamide PA6	250

These anchors are supplied with M6 locknuts, which have to be used for the installation of the clasps.

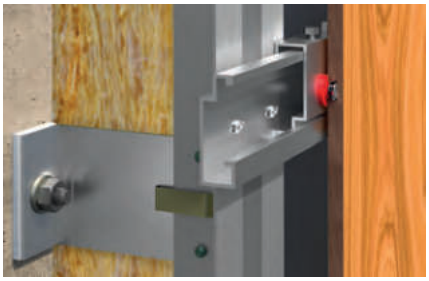
Zykon-Panel anchor FZP II T PA

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

2



Undercut anchor in HPL board



Façade cross-section with FZP II T PA

Applications

- Exterior façades
- Interior façades
- Façade reveals

Certificates

ETA-11/0465

Advantages

- The anchor's short geometry allows it to be used in thin panels with a thickness greater than 8 mm.
- The fixing of the undercut anchor is not visible on the exposed side, creating a visually attractive and consistent façade surface.
- The adapted shape of the undercut anchor ensures a positive-locking attachment free from expansion pressure in a conical undercut drill hole.
- Setting the anchor using undercut technology allows the user to always select the optimal structural position in the façade panel. This greatly reduces panel deflection.
- The positive-locking anchor is free from expansion pressure provides much better holding force than commonly available systems and allows for the use of large-format panels.

Functioning

- Use dry drilling with a diamond drill bit - first cylindrical, then conical - to drill an undercut hole.
- When the undercut anchor is installed, an optimal, positive-locking connection is created between the expanding part and the drill hole.
- The anchor is installed flush to the absolute anchoring depth. After the anchor is set, the spacer washer will be in full contact with the surface of the material.

Building materials

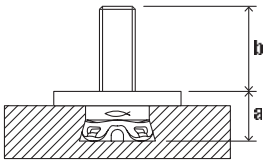
- Fibre cement
- HPL panels
- Thin panel materials (≥ 8 mm)

Installation FZP II T PA

Stabilo Cube · Heroldsberg · Germany

Technical data

FZP II-T PA 11 x 6 FZP II-T PA 11 x 8 FZP II-T PA 11 x 10

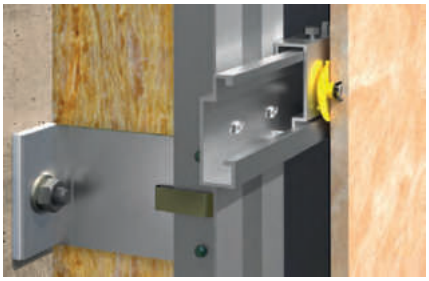


Item	Item No.	Approval ETA	Installed anchor length a [mm]	Anchorage depth h_{ef} [mm]	Projection length b [mm]	Thread Ø x length [mm]	cylindrical diameter [mm]	Undercut-diameter [mm]	Min. panel thickness [mm]	Sleeve material	Sales unit [pcs]
FZP II 11 x 6 M6/T/10 PA	**520365**	●	8.5	6	10		11	13.5	8	Polyamide PA6	250
FZP II 11 x 8 M6/T/12 PA	**520367**	●	10.5	8	12		11	13.5	10	Polyamide PA6	250
FZP II 11 x 10 M6/T/9 PA	**520369**	●	12.5	10	9		11	13.5	12	Polyamide PA6	250

Zykon-Panel anchor FZP II T D40

The specialist for thin ceramic façade panels.

Undercut anchor in ceramic tiles



Façade cross-section with ceramic anchor

Applications

- Exterior façades
- Interior façades
- Façade reveals

Certificates

ETA-11/0465

Advantages

- The anchors' short geometry allows it to be used in thin panels with a thickness greater than 10 mm.
- The fixing of the undercut anchor is not visible on the exposed side, creating a visually attractive and consistent façade surface.
- The adapted shape of the undercut anchor ensures a positive-locking attachment free from expansion pressure in a conical undercut drill hole.
- Setting the anchor using undercut technology allows the user to always select the optimal structural position in the façade panel. This greatly reduces panel deflection.
- The positive-locking anchor is free from expansion pressure provides much better holding force than commonly available systems and allows for the use of large-format panels.

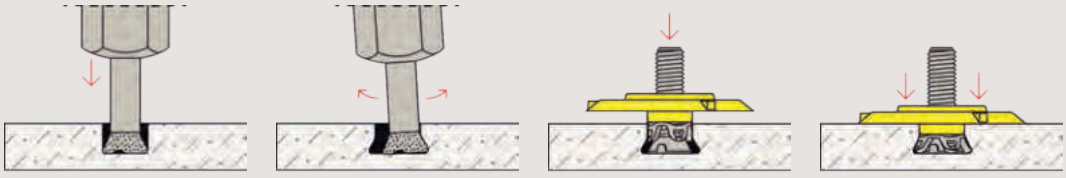
Functioning

- Use wet diamond drilling - first cylindrical, then conical - to drill an undercut hole.
- When the undercut anchor is installed, an optimal positive-locking connection is created between the expanding part and the drill hole.
- The anchor is installed flush to the absolute anchoring depth. After the anchor is set, the spacer washer will be in full contact with the surface of the material.

Building materials

- Ceramics
- Fine stoneware (≥ 10mm)

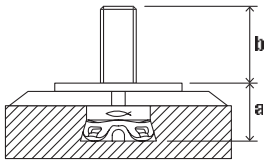
Installation FZP II T D40



Nieuwe Haagse Passage · The Hague · Netherlands

Technical data

FZP II 11 x 6 D40 FZP II 11 x 8 D40 FZP II 11 x 9 D40



Item	Item No.	Approval ETA	Installed anchor length a [mm]	Anchorage depth h_{ef} [mm]	Projection length b [mm]	Thread Ø x length [mm]	cylindrical diameter [mm]	Undercut-diameter [mm]	Min. panel thickness [mm]	Sleeve material	Sales unit [pcs]
FZP II 11 x 6 M6/T/9 D40 PA	**532644**	●	9.5	6	9		11	13.5	10	Polyamide PA6	250
FZP II 11 x 8 M6/T/10 D40 PA	**532645**	●	11.5	8	10		11	13.5	12	Polyamide PA6	250
FZP II 11 x 9 M6/T/9 D40 PA	**532646**	●	12.5	9	9		11	13.5	13	Polyamide PA6	250

Zykon-Glas point fixing FZP G Z ESG

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

Glass point holder in single layered glass panels

Façade cross-section with single layered glass panel

Applications

- Exterior façades
- Interior façades
- Glass façades

Certificates

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.

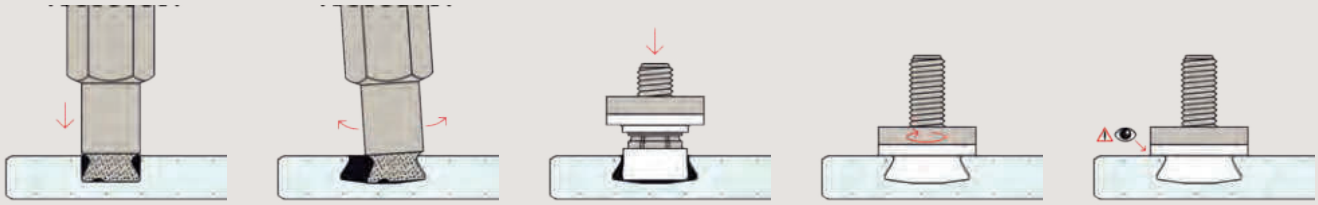
Functioning

- 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

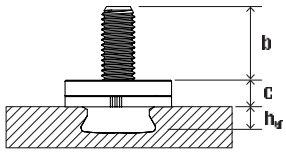
- Single layer safety glass (≥ 10mm)
- Glass ceramic (≥ 10mm)

Installation in single layer safety glass



Bahai Temple · Santiago de Chile · Chile

Technical data



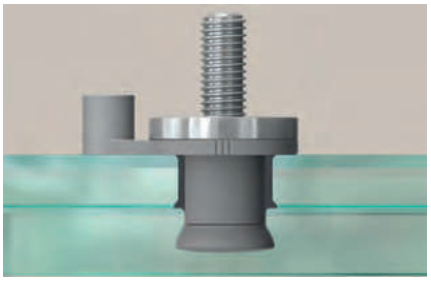
FZP G Z (ESG)

FZP G Z 6kt (ESG)

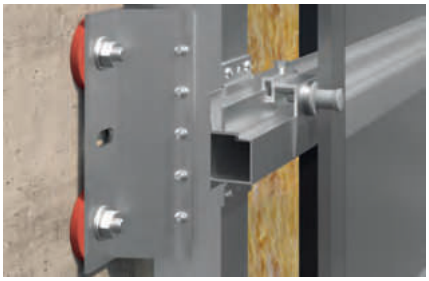
Item	Item No.	Approval DIBt	Drill hole diameter [mm]	Bolt projection length b [mm]	Structural height c [mm]	Anchorage depth h_{ef} [mm]	Glass structure	Sales unit [pcs]
FZP 15 x 6 M8/11 G-Z	**047254**	●	15	11.5	6.5	6	≥ 10	100
FZP 15 x 6 M8/25 G-Z	**047259**	●	15	25	6.5	6	≥ 10	100
FZP 15 x 7 M8/10 G-Z	**047273**	●	15	10.5	6.5	7	≥ 12	100
FZP 15 x 7 M8/24 G-Z	**047274**	●	15	24	6.5	7	≥ 12	100
FZP 15 x 6 M8/11 G-Z 6KT	**051435**	●	15	11.5	6.5	6	≥ 10	100
FZP 15 x 6 M8/25 G-Z 6KT	**051436**	●	15	25	6.5	6	≥ 10	100
FZP 15 x 7 M8/10 G-Z 6KT	**051440**	●	15	10.5	6.5	7	≥ 12	100
FZP 15 x 7 M8/24 G-Z 6KT	**051441**	●	15	24	6.5	7	≥ 12	100

Zykon-Glas point fixing FZP G Z VSG

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



Glass point holder in laminated composite safety glass



Façade cross-section with laminated composite safety glass

Applications

- Exterior façades
- Interior façades

Certificates

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.

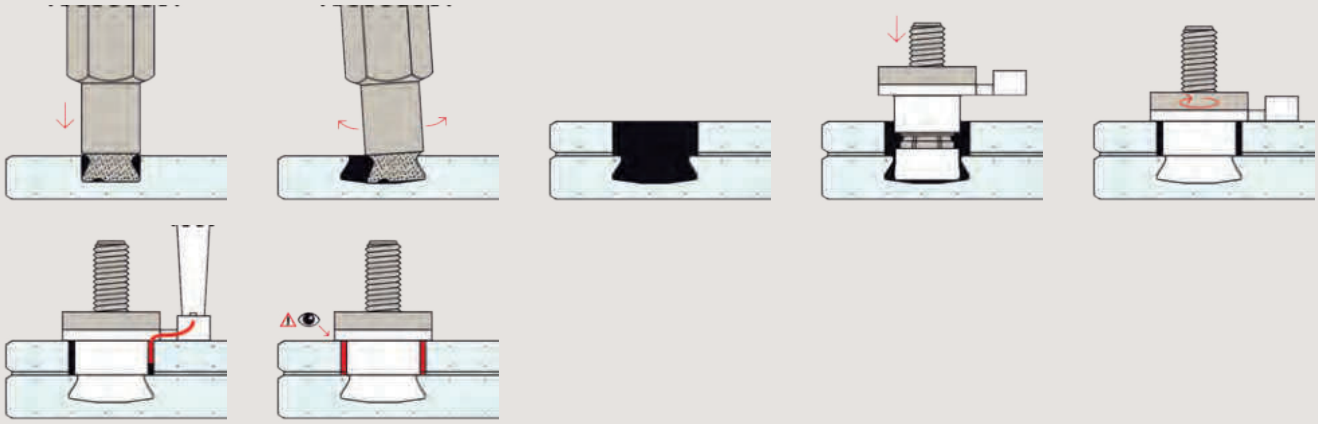
Functioning

- 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

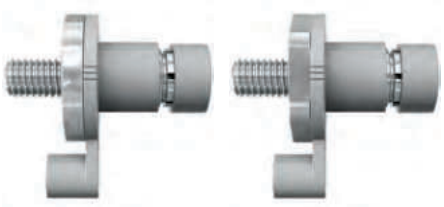
- Laminated composite safety glass (>18mm)

Installation in laminated composite safety glass

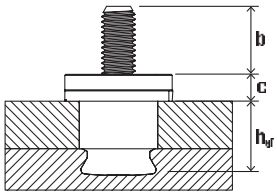


FRAC art centre · Marseille · France

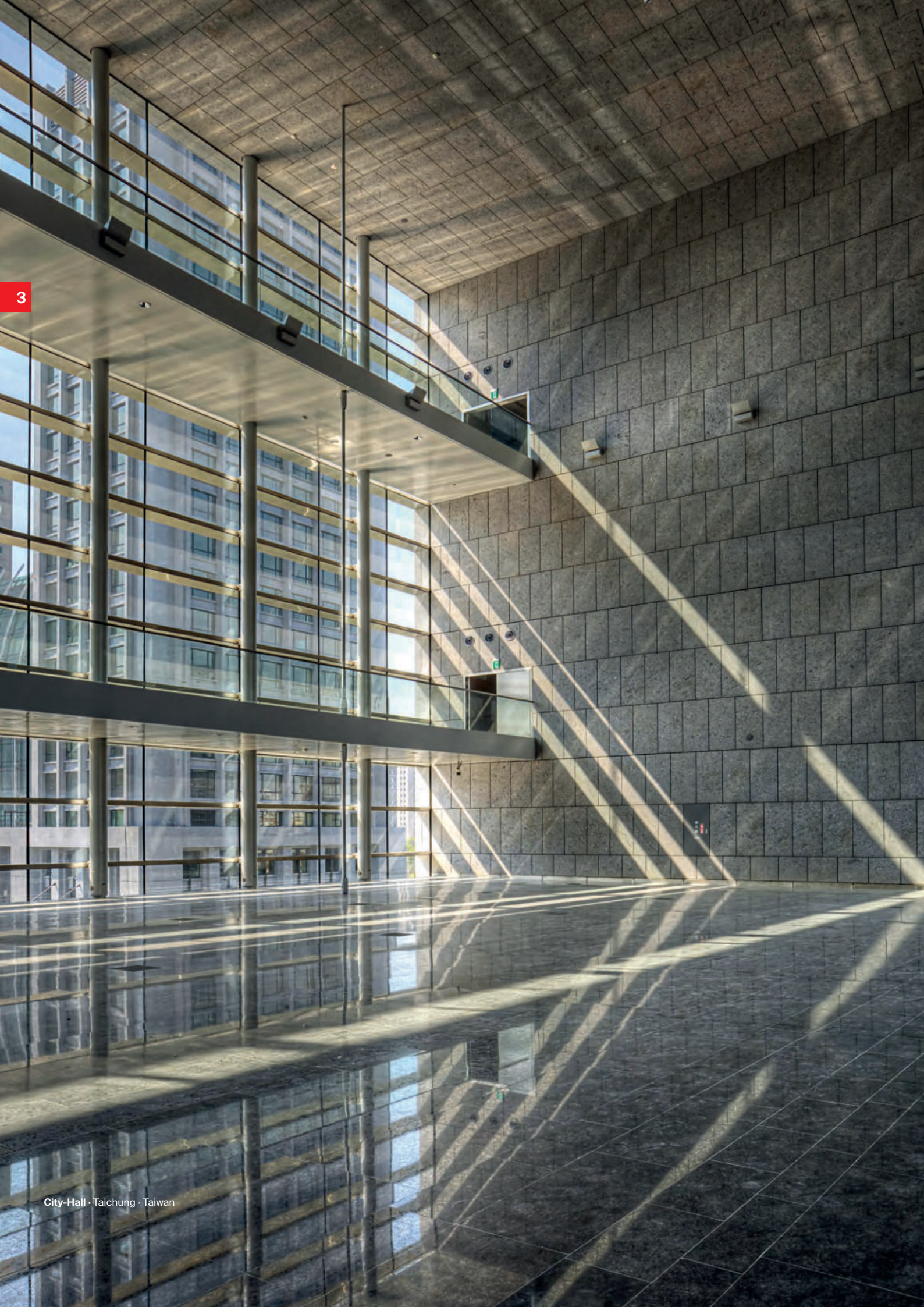
Technical data



FZP G Z (VSG) FZP G Z 6kt (VSG)



Item	Item No.	Approval DIBt	Drill hole diameter [mm]	Structural height c [mm]	Bolt projection length b [mm]	Anchorage depth h_{ef} [mm]	Glass structure	Thread A	Sales unit [pcs]
FZP 15 x 15,5 M8/16 G-Z	**047300**	●	15	6.5	16	15,5	10/8	M 8	100
FZP 15 x 17,5 M8/14 G-Z	**050407**	●	15	6.5	14	17,5	10/10	M 8	100
FZP 15 x 15,5 M8/16 G-Z 6KT	**051442**	●	15	6.5	16	15,5	10/8	M 8	100
FZP 15 x 17,5 M8/14 G-Z 6KT	**051447**	●	15	6.5	14	17,5	10/10	M 8	100



3

City-Hall · Taichung · Taiwan

3

Machine technology and drill bits

3

A fully coordinated complete system.

The perfect solution for rainscreen façades.

Just as much know-how as for the development of the Zykon panel anchor and sub-frame systems has been invested in the machine technology. This forms an indispensable part of the façade system.
The machine technology includes not only fischer drilling machines and drill bits, which are specially developed for the creation of the undercut drill holes, but also test and measuring equipment for quality control of the hole geometry and setting tools to ensure safe and fast installation of the fischer Zykon panel anchors.

In addition, it is possible to make the undercut holes using your own CNC machining equipment.

Bellavita Shopping Mall · Taipeh · Taiwan

3

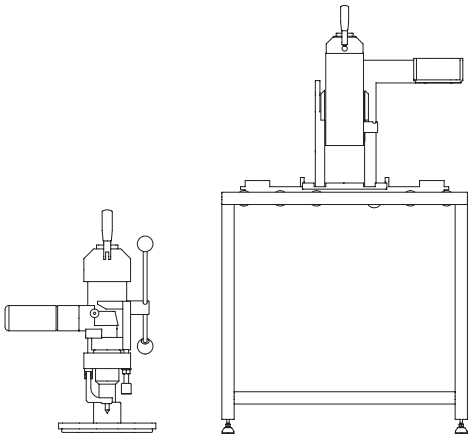
Drilling machines

to ensure correct undercut drill hole geometry for fischer Zykon panel anchors.

fischer offers proprietary machines of various sizes, from portable on-site up to large-scale production equipment. These machines enable the fast and economic production of drill holes with diamond drilling tools. Quality control of the drilled holes is then carried out by taking the hole dimensions with the testing and measuring equipment and comparing them with the target dimensions and tolerance specifications. Finally, the undercut anchors are installed in the undercut holes of the façade panels using the appropriate setting devices.

The fixing specialists at fischer façade systems offer a wide range of services in this context:

- Diverse range of machines
- Large-scale production machines
- Support with machine selection
- Purchase/rental of the machines



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 [mm]	Weight [kg]	Connections	Power input [W]	Water connection	Water consumption
BSN 100 VP	**061502** [2]	natural stone, ceramic	Diamond drill bit	Manual MB 1	340 x 450 x 480	20	230 V, 10/16 A	1200	1/2 inch cross section, at least 2 bar fresh water	1,5 L/min (idle running)
BSN 100 VD	**046223** [1]	natural stone, ceramic	Diamond drill bit	Manual MB 1	340 x 450 x 480	20	230 V, 10/16 A	1200	1/2 inch cross section, at least 2 bar fresh water	1,5 L/min (idle running)

1) Supplied with a venturi nozzle #802111

2) Supplied with a vacuum pump #802597

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

Item	Item No.	Useable material	Drill bit	Drilling Technology	Dimensions [cm]	Table skewness [cm]	Weight [kg]	Connections	Power input [W]	Water connection	Water consumption
SBN 502	**061500**	natural stone, ceramic	Diamond drill bit	Manual MB 2	210 x 140 x 160	170 x 130 x 80	450	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)

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

Item	Item No.	Useable material	Drill bit	Drilling Technology	Dimensions [cm]	Table skewness [cm]	Weight [kg]	Connections	Power input [W]	Water connection	Water consumption
LBT 80	**046225**	natural stone, ceramic	Diamond drill bit	Manual MB 2	72 x 80 x 142	40 x 80 x 75	65	230 V, 10/16 A	1000	1/2 inch cross section, at least 2 bar fresh water	1,5 L/ min (idle running)

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
- 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 [mm]	Weight [kg]	Connections	Power input [W]	Water consumption
MB 2	**061130**	natural stone, ceramic	Diamond drill bit	Manual MB 2	190 x 290 x 600	30	230 V, 10/16 A	1000	1,5 L/min (idle running)

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

Item	Item No.	Useable material	Drill bit	Drilling Technology	Dimensions [mm]	Weight [kg]	Connections	Power input [W]
BSN 101T	**802484** [1)]	Thin panel materials (e. g. HPL, fibre cement)	Carbide cutters	Manual MB 1	280 x 530 x 520	15	230 V, 10/16 A	1200

1) Supplied with one venturi nozzle #802111. Additionally a vacuum pump #802597 can be purchased.

Side table BST

Supporting tables for drilling machines.

Advantages

- Improves operating comfort
- Work with larger panel formats
- Enlarges the machine table surface

Technical data

BST 80 BST 502

Item	Item No.	Dimensions [mm]	Weight [kg]	Number of rollers	Max. load (carnier roller) [N]	Suitable for machine type
BST 80	**046228**	800 x 480 x 780 (B x H x T)	20	5 pcs. Ø 50 x 390 mm	200	LBT 80
BST 502	**046235**	1000 x 1250 x 830 (B x H x T)	50	55 pcs. Ø 60 mm	200	SBN 502

Machine accessories

Accessories for fischer undercut drilling machines.

Vacuum pump VP

Item	Item No.	For machine type	Dimensions [mm]	Weight [kg]	Technical details
Vacuum pump VP	**802597**	BSN 100, BSN 101 T	230 x 210 x 280 (B x T x H)	11	850 W, 230 V, 3,5 A, 50-60Hz

Venturi nozzle VD

Item	Item No.	For machine type	Dimensions [mm]	Weight [kg]	Technical details
Venturi nozzle VD	**802111**	BSN 100, BSN 101 T	120 x 60 x 20 (B x T x H)	0,1	

Vacuum cleaner SSG

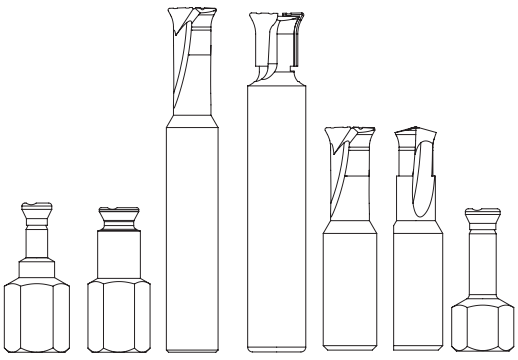
Item	Item No.	For machine type	Dimensions [mm]	Weight [kg]	Technical details
Vacuum cleaner SSG	**802596**	BSN 101 T	350 x 400 x 350 (B x T x H)	4	500 W, 230 V, 1,9-2,2 A, 60 Hz

3

Drill bits

to ensure correct undercut drill hole geometry for fischer Zykon panel anchors.

Different materials require different types of drill bits. The appropriate drilling tool must be selected for each material and anchor combination. For example, a diamond drill bit with water cooling is used for natural stone or ceramic panels. With carbide cutters, many other materials such as HPL and fibre cement can be drilled dry, without the need for water cooling.



Undercut drill bits

Undercut drill bit for façade panels.

Applications

- Interior façades
- Exterior façades
- Façade reveals

Versions

- Diamond drill bit
- Carbide drill bit

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

FZPB FZPB 11/28 FZPB 11T D12

Item	Item No.	Useable material	Drilling method	for BSN 100 VD & VP	for SBN 502 & LBT 80	for BSN 100T	Drill depth h_0 [mm]
FZPB 9	**060713**	Natural stone	wet	–	FZP II M6	–	16
FZPB 9T	**530910**	ceramic	wet	–	FZP II T D40	–	16
FZPB 11	**060710**	Natural stone	wet	FZP II M6	FZP II M8, FZP II M6i	–	21
FZPB 11/28	**092880**	Natural stone	wet	FZP II M6	FZP II M8, FZP II M6i	–	28
FZPB 13	**060711**	Natural stone	wet	FZP II M8, FZP II M6i	FZP II M8i	–	21
FZPB 15	**530908**	Natural stone	wet		–	–	21
FZPB 11T D12	**522402**	Thin panel materials (e. g. HPL, fibre cement)	dry	–	–	FZP II T	10

Undercut drill bits CNC

Creation of undercut holes for anchors using a CNC process.

Applications

- Interior façades
- Exterior façades
- Façade reveals

Versions

- Helix drilling
- Single stage, direct drilling
- Two-stage, direct drilling with pre-drilling

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

FZPB FZPB CNC DIA

Item	Item No.	Useable material	Drilling method	for CNC + adapter	Drill depth h_0 [mm]
FZPB 11/21 CNC	**535984** 1)	natural stone, ceramic	wet	FZP II M6, FZP II T D40	21
FZPB 11/28 CNC	**530911** 1)	Natural stone	wet	FZP II M6	28
FZPB 13/21 CNC	**535985** 1)	Natural stone	wet	FZP II M8, FZP II M6i	21
FZPB 13/38 CNC	**540698** 1)	Natural stone	wet	FZP II M8, FZP II M6i	38
FZPB 15/28 CNC	**547077** 1)	Natural stone	wet	FZP II M8i	28
FZPB 11T CNC	**522398**	Thin panel materials (e. g. HPL, fibre cement)	dry	FZP II T	10
FZPB 11T CNC-DIA	**541464**	Thin panel materials (e. g. HPL, fibre cement)	dry	FZP II T	10
CNC adapter	**804063**	natural stone, ceramic	wet	FZP II M6, FZP II M8, FZP II M6i, FZP II M8i	–

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

Undercut drill bits 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

Versions

- Helix drilling

Technical data

FZPB G

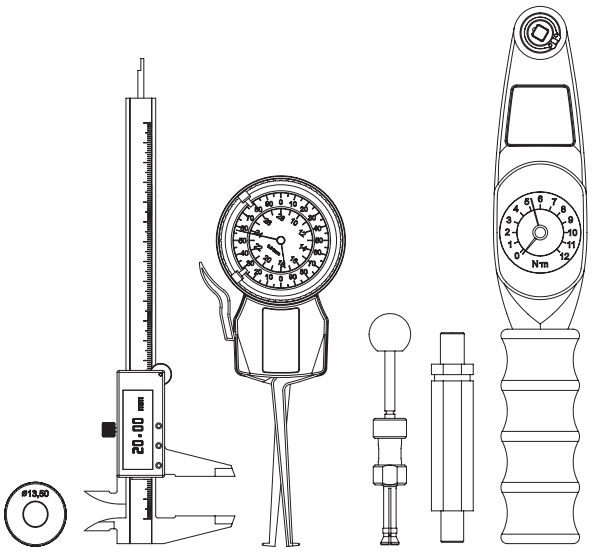
Item	Item No.	Useable material	Drilling method	for CNC + adapter	Drill depth h_0 [mm]
FZPB 13 G6	**019265**	glass	wet	FZP G Z ESG, FZP G Z VSG	6
FZPB 13 G7	**019266**	glass	wet	FZP G Z ESG, FZP G Z VSG	7

3

Testing and measuring equipment

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

The safe and reliable function of the fixing system depends on various factors. An essential requirement is correctly drilled anchor holes and their quality control. The drill holes should be checked and recorded according to the testing and setting guidelines as stipulated in the general technical approval.



Testing and measuring equipment

Quality controlling for undercut drill holes.

Dial gauge for measuring the undercut diameter

Dial gauge STU

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
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	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
MST	802575	all	●	●	●	●	●	●	●	●
MST-D	802507	all	●	●	●	●	●	●	●	●

Undercut volume gauge for checking the minimum undercut volume

Undercut volume gauge HVL

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		
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	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		
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	●	●	●	●	●	●	●	●

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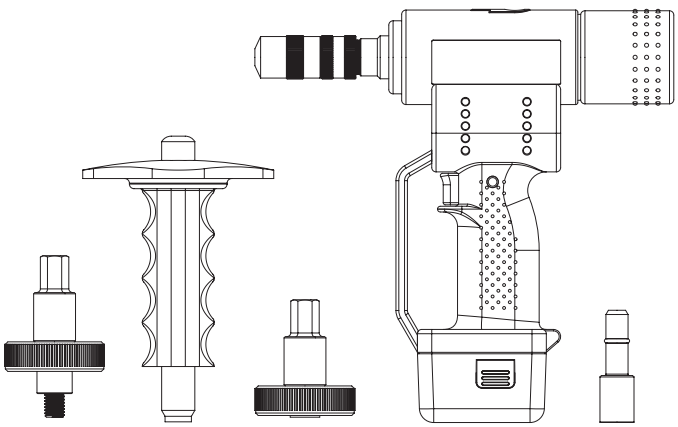
Setting tools

for proper installation of fischer Zykon panel anchors.

The setting tools complete the overall fischer Zykon panel anchor fixing system. Based on years of experience, coordinated and revised with our customers, fischer offers a range of high-quality tools for simple, fast and safe installation of the FZP II anchors. This is carried out according to the general technical approval relevant to the anchor and panel material combination.



Setting tools

Installation of fischer Zykon panel anchors FZP II.

Setting tools

Battery operated setting tool SGB

Manual setting tool SGT

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
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	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	
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

Setting tool FZE plus

Setting tool FZE plus

Item	Item No.	Useable material	FZP II M6	FZP II M6i	FZP II M8	FZP II M8i				
FZE 10 plus	044637 [1]	Natural stone	●	●	–	–				
FZE 12 plus	044638	Natural stone	–	–	●	–				
FZE 14 plus	044639	Natural stone	–	–	–	●				

1) Without centring pin.

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4

SystemOne subframe system

Subframe systems

SystemOne, SystemOne Light and SystemOne Vertical Solutions.

SystemOne

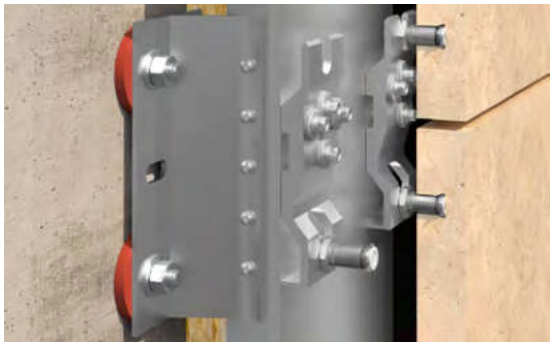
A key element of fischer façade systems is the System-One subframe. It is designed for high loads, large-sized, heavy natural stone slabs and for bridging non-load-bearing building structures. The subconstruction reduces assembly times on-site, reduces noise, e.g. during renovations, and allows easy replacement of panels. The combination of horizontal profiles and panel clasps results in a constant construction dimension of 37 mm.

SystemOne Light

The fischer SystemOne Light façade system is the efficient solution when it comes to fast installation of rainscreen facades made of lightweight façade panels. The combination of horizontal profiles and panel clasps results in a constant construction dimension of 25 mm.

SystemOne Vertical Solution

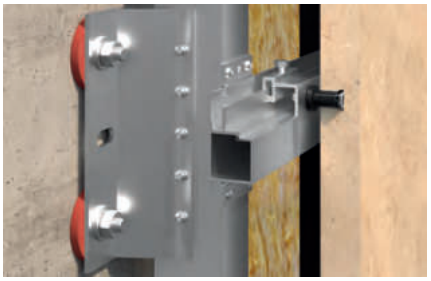
A purely vertical subconstruction can be implemented with the fischer SystemOne Vertical Solution. With this system, the loads are transferred directly via the panel clasps mounted on the vertical profiles. For this system, the special Zykon FZP II VS panel anchors are used, which, thanks to the suspension nut, are hooked into the clasps according to the key lock principle. The use of the vertical solution results in a constant construction dimension of 15 mm.



La Grande Arche - Paris - France

Horizontal profiles

Horizontal profile Bracket Solution



SystemOne in façade cross section with natural stone

SystemOne Light in façade cross section with natural stone

Applications

- As a horizontal profile for subframe systems in rainscreen facades

Versions

- HP BS
- HP BSL

Advantages

- Horizontal load bearing and transfer to the vertical profiles
- Quick and easily suspend façade panels thanks to the coordinated geometries of the brackets and horizontal profiles

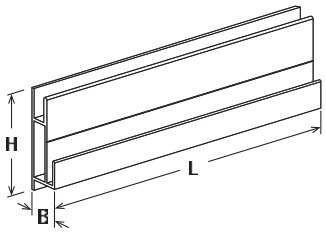
Functioning

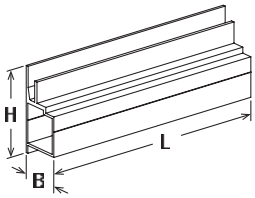
- Geometric coordination
- Horizontal load transfer

Technical data

HP-BSL

HP-BS

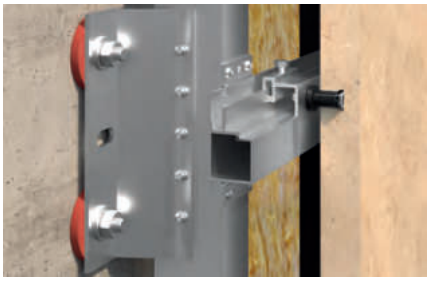




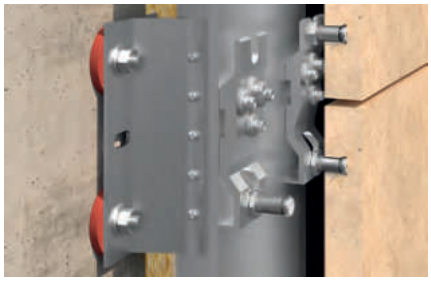
Item	Item No.	Length L [mm]	Width B [mm]	Height H [mm]	Sales unit [pcs]
HP-BSL	**018438**	6000	21	64	1
HP-BS	**048899**	6000	34	74	1

Clasps

Clasps Bracket Solution



SystemOne in façade cross section with natural stone



SystemOne Vertical Solution in façade cross section with natural stone

Applications

- As a suspension element in the horizontal profile for subframe systems in rainscreen façades.

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.

Functioning

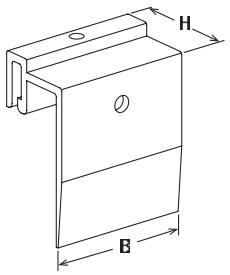
- Geometric coordination
- Load bearing

Versions

- BR-BS
- BR-BSL
- BR-VS

Technical data

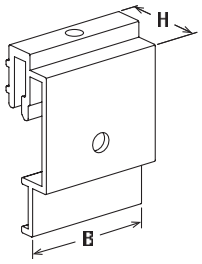
BR-BS



Item	Item No.	Width B [mm]	Height H [mm]	Sales unit [pcs]
BR-BS M6/50	**048904**	50	30	250
BR-BS M6/100	**091536**	100	30	125
BR-BS M8/50	**049238**	50	30	250
BR-BS M8/100	**078585**	100	30	125
BR-BS M8/150	**078587**	150	30	100

Technical data

BR-BSL

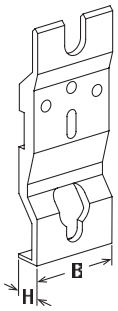


Item	Item No.	Width B [mm]	Height H [mm]	Sales unit [pcs]
BR-BSL 40-M6	**018439**	40	18	250
BR-BSL 40-M8	**018448**	40	18	250
BR-BSL 90-M8	**018447**	90	18	200

4

Technical data

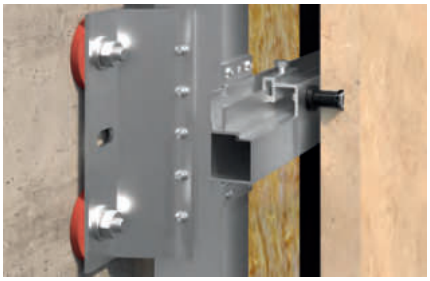
BR-VS



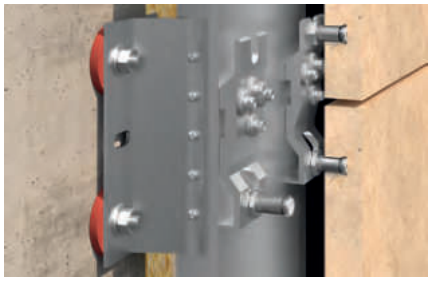
Item	Item No.	Width B [mm]	Height H [mm]	Sales unit [pcs]
BR-VS 50-S	**521663**	50	15	20
BR-VS 50-F	**521662**	50	15	20

Vertical profiles

Box-section vertical profile



SystemOne in façade cross section with natural stone



SystemOne Vertical Solution in façade cross section with natural stone

Applications

- As a vertical profile for subframe systems in rainscreen facades

Versions

- VP
- T

Advantages

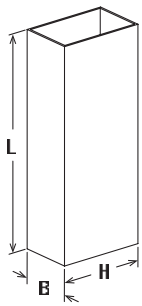
- Vertical box sections are better suited to absorb higher loads than T- or L-profiles, thanks to their closed geometry.
- Better resistance to torsion.
- Tolerance compensation for the substrate.
- Simple geometry.

Functioning

- Vertical load transfer
- Tolerance compensation

Technical data

VP

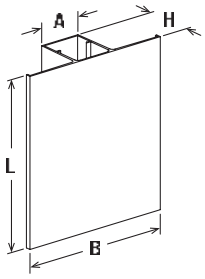


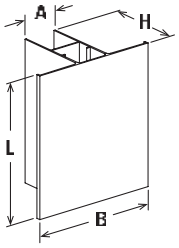
Item	Item No.	Length L [mm]	Width B [mm]	Height H [mm]	Sales unit [pcs]
VP 25/2	018441	6000	50	25	1
VP 30/2	077545	6000	50	30	1
VP 40/2	077546	6000	50	40	1
VP 50/2	048895	6000	50	50	1
VP 80/2	048896	6000	50	80	1
VP 100/2	048897	6000	50	100	1
VP 120/3	048898	6000	50	120	1
VP 150/3	097884	6000	50	150	1
VP 180/3	097885	6000	50	180	1

Technical data

T60

T110



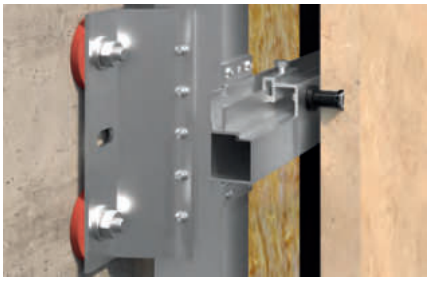


4

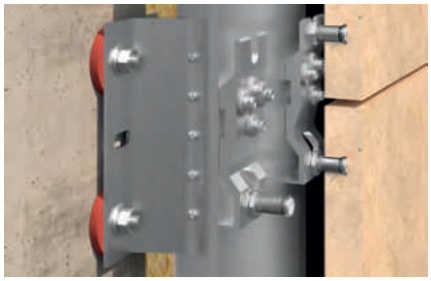
Item	Item No.	Length L [mm]	Width A A [mm]	Width B [mm]	Height H [mm]	Sales unit [pcs]
T 60	**077692**	6000	50	180	60	1
T110	**509279**	6000	50	180	110	1

Wall brackets

Wall holder with fixing points on both sides



SystemOne in façade cross section with natural stone



SystemOne Vertical Solution in façade cross section with natural stone

Applications

- As a wall holder for subframe systems in rainscreen facades

Versions

- FPH
- SPH

Advantages

- The wall holder is used to absorb and transfer the loads applied to the façade system.
- They compensate the tolerance of the substrate.
- Available as fixed and sliding point anchors.
- Absorption of thermal longitudinal expansion through slots on the sliding point anchor.

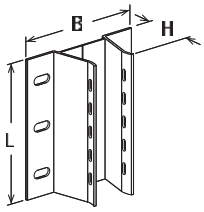
Functioning

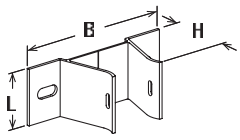
- Vertical load transfer.
- Absorption of higher loads through double-sided attachment.
- Tolerance compensation for structural tolerances.
- Easy installation with attachments on both sides.

Technical data

FPH

SPH





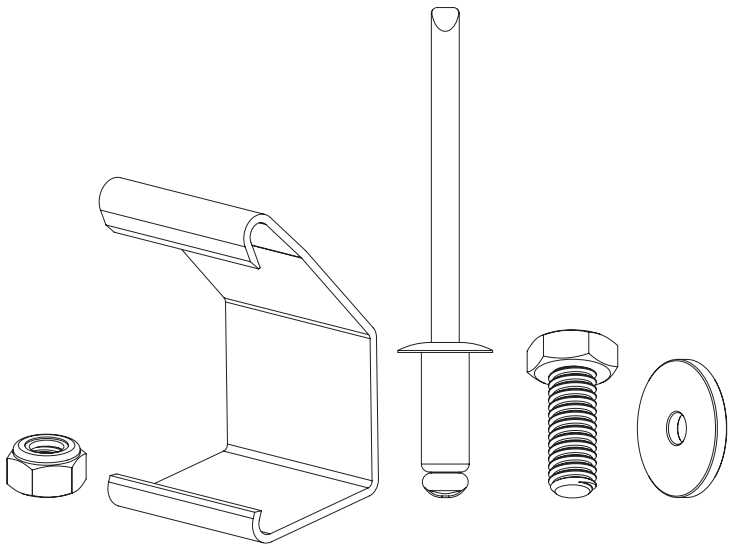
Item	Item No.	Length L [mm]	Width B [mm]	Height H [mm]	Slot l x s [mm]	Match	Sales unit [pcs]
FPH 30	**018442**	180	140	30	11 x 25	VP 50, VP 100	40
FPH 54	**018444**	180	160	54	11 x 25	VP 50, VP 100	40
FPH 68	**048900**	180	160	68	11 x 25	VP 50, VP 100	30
FPH 93	**048901**	180	160	93	11 x 25	VP 50, VP 100	20
FPH 133	**030367**	180	160	133	11 x 25	VP 50, VP 100	24
SPH 30	**018443**	60	140	30	11 x 25	VP 50, VP 100	100
SPH 54	**018445**	60	160	54	11 x 25	VP 50, VP 100	100
SPH 68	**048902**	60	160	68	11 x 25	VP 50, VP 100	90
SPH 93	**048903**	60	160	93	11 x 25	VP 50, VP 100	75
SPH 133	**030368**	60	160	133	11 x 25	VP 50, VP 100	50

4

Installation accessories

for the installation of fischer rainscreen façade systems.

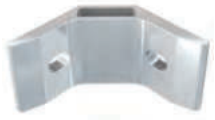
The installation accessories include all components and elements which are required to assemble fischer façade systems as a rainscreen façade.
In addition to the usual fixings and connectors such as screws, rivets and nuts, accessories for sub-frame systems and reveal angles for the design of façade corners are included.



Accessories

Diverse assortment of accessories for installing a subframe system

Reveal angle LW



LW 50

Item	Item No.	Material	Adapted for	Length L [mm]	Height H [mm]	Width B [mm]	Material thickness [mm]	Angle	Slot l x s [mm]	Sales unit [pcs]
LW 50-M6	**078995**	Aluminium	FZP II M6, FZP II M6 Carbon	80	80	50		90°	9 x 15	125
LW 50-M8	**079148**	Aluminium	FZP II M8, FZP II M8 Carbon	80	80	50		90°	11 x 17	125

Profile guidance GLB

GLB

Item	Item No.	Material	Adapted for	Length L [mm]	Height H [mm]	Material thickness [mm]	Sales unit [pcs]
Profile guidance GLB	**048906**	PVC		50	27	3	200

Fixit Plastic wedge to form a horizontal fixed point

Fixit

Item	Item No.	Material	Length L [mm]	Height H [mm]	Material thickness [mm]	Sales unit [pcs]
Fixit	**048905**	PVC	45	20		250

HP-Clip = visual protection clip to cover the aluminium substructure in the panel joints

HP-Clip

Item	Item No.	Material	Length L [mm]	Height H [mm]	Width B [mm]	Material thickness [mm]	Sales unit [pcs]
Cover plate HP-Clip	**096451**	PVC	70	40	45	2	300

Thermal isolator CBS

Cold bridge stop CBS

Item	Item No.	Material	External-Ø d [mm]	Internal diameter D [mm]	Material thickness [mm]	Sales unit [pcs]
Cold Bridge Stopp CBS	**092680**	PVC	50	12,0	5	200

Strip holder bracket solution

SH-BS

Item	Item No.	Material	Length L [mm]	Height H [mm]	Material thickness [mm]	Sales unit [pcs]
Strip holder bracket solution	**079169**	Aluminium	120	50	4	50

Blind rivet

Blind rivet A4

Item	Item No.	Material	External-Ø d [mm]	Length L [mm]	Sales unit [pcs]
Blind rivet 4.8 x 12 A4	**521664**	A4	4.8	12	500

Façade self-tapping screw FABSA

Self-Drilling screw FABSA
23-A2

Item	Item No.	Material	External-Ø d [mm]	Diameter of washer [mm]	Length L [mm]	Sales unit [pcs]
FABSA 23 5,5 x 38 A2 DS16	**092379**		5.5	16	38	500

Façade screw FADI

Facade self-tapping screw
FADI A-A2

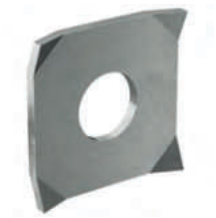
Item	Item No.	Material	External-Ø d [mm]	Diameter of washer [mm]	Length L [mm]	Sales unit [pcs]
FADI A 6,5 x 32 A4 DS16	**092123**	A4	6.5	16	32	500

Washer

Washer

Item	Item No.	Material	Internal diameter D [mm]	Width across nut SW [mm]	Height H [mm]	DIN	Sales unit [pcs]
Washer M6-A4	**523231**	A4	6	10	1.6	125	100
Washer M8-A4	**523232**	A4	8	13	1.6	125	100

Spike washer



Spike washer A4

Item	Item No.	Material	Internal diameter D [mm]	Length L [mm]	Height H [mm]	Material thickness [mm]	Sales unit [pcs]
Spike washer M6 - A4	**049914**	A4	6	20	20	3	100
Spike washer M8 - A4	**049915**	A4	8	20	20	3	100

Nut A4


Hexagonal nut A4


Lock nut A4


Serrated Nut A4

Item	Item No.	Material	Internal thread A1	Width across nut SW [mm]	Height H [mm]	DIN		Sales unit [pcs]
Nut M6 A4	**521667**	A4	M 6	10	5.2	934	24 032	100
Nut M8 A4	**521668**	A4	M 8	13	6.8	934	24 032	100
Lock nut M6 A4	**521669**	A4	M 6	10	8	985	24 032	100
Lock nut M8 A4	**521670**	A4	M 8	13	9.5	985	24 032	100
Serrated Nut M6 A4	**541613**	A4	M 6	10	6	1661	6923	250
Serrated Nut M8 A4	**541614**	A4	M 8	13	8	1661	6923	250

Screw locking liquid


Screw locking liquid

Item	Item No.	Contents [ml]	Sales unit [pcs]
Screw locking liquid 10ml	**521676**	10	1

Profile connector


PSV-BS


PSV-BSL


PSV-VS

Item	Item No.	Material	Length L [mm]	Height H [mm]	Width B [mm]	Material thickness [mm]	Sales unit [pcs]
PSV-BS	**521665**	Aluminium	200	30	30	2	25
PSV-BSL	**018446**	Aluminium	200	35	10	2	25
PSV-VS	**049905**	Aluminium	200	45	20	2	50

Adjustment screw

ES-BS

Item	Item No.	Material	External-Ø d [mm]	Width across nut SW [mm]	Length L [mm]	DIN	Sales unit [pcs]
ES-BS	**521673**	A4	6	10	16	933	50
ES-BSL	**521672**	A4	6	10	14	933	50

Adjustable wedge

Adjustable wedge

Item	Item No.	Material	Sales unit [pcs]
Adjustable wedge VS	**521675**	PVC	5

Socket wrench

Socket wrench with T-handle

Item	Item No.	Internal thread A1	Width across nut SW [mm]	Sales unit [pcs]
Socket wrench SW10	**802168**	M 6	10	1
Socket wrench SW13	**802169**	M 8	13	1

Rivet setting tool

NSG

Item	Item No.	Sales unit [pcs]
NSG (price)	**046236** [1)]	1

1) Dangerous goods - no express shipping possible.

5

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5

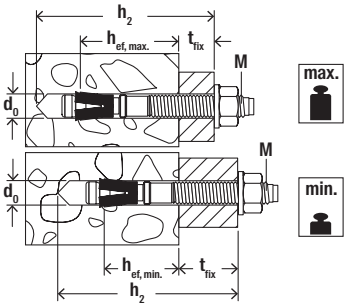
Fixing systems and accessories

Steel fixings

Mechanical anchoring solutions for heavy loads

Technical data

Bolt anchor FAZ II

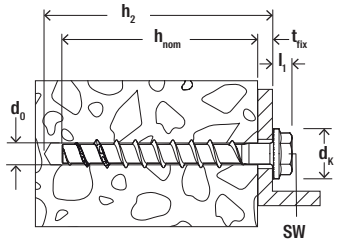


Item	Zinc-plated steel Item No. gvz	Stainless steel Item No. R	Approval ETA	 ICC	Seismic-Approval	Drill hole diameter d_0 [mm]	Min. drill hole depth for through fixings h_2 [mm]	Max. usable length hef,max./ hef,min. t_{fix} [mm]	Anchor length l [mm]	Thread Ø x length [mm]	Width across nut SW [mm]	Sales unit [pcs]
FAZ II 8/10	**094871** [1]	**501396** [1]	●	●	C1	8	65	10/20	75	M 8 x 38	13	50
FAZ II 10/10	**094981**	**501403**	●	●	C1 / C2	10	85	10/30	95	M 10 x 53	17	50
FAZ II 10/20	**094982**	**–**	●	●	C1 / C2	10	95	20/40	105	M 10 x 63	17	25
FAZ II 10/20	**–**	**501406**	●	●	C1 / C2	10	95	20/40	105	M 10 x 63	17	50

1) With minimum embedment depth only for statically interdeterminate systems

Technical data

ULTRACUT FBS II US - hexagon head with integral washer



Item	Item No.	Approval ETA	Drill hole diameter d_0 [mm]	Min. drill hole depth for through fixings h_2 [mm]	Screw d_a x l_S [mm]	Screw-in depth with fixture thickness h_{nom1} / t_{fix} [mm]	Screw-in depth with fixture thickness h_{nom2} / t_{fix} [mm]	Screw-in depth with fixture thickness h_{nom3} / t_{fix} [mm]	Drive	Sales unit [pcs]
FBS II 8x80 30/15 US TX	**536853**	●	8	90	10 x 80	50 / 30	65 / 15	65 / 15	TX40/SW13	50
FBS II 8x90 40/25 US TX	**536854**	●	8	100	10 x 90	50 / 40	65 / 25	65 / 25	TX40/SW13	50
FBS II 8x100 50/35 US TX	**536855**	●	8	110	10 x 100	50 / 50	65 / 35	65 / 35	TX40/SW13	50
FBS II 10x70 15/5/- US	**536859**	●	10	80	12 x 70	55 / 15	65 / 5	- / -	SW 15	50
FBS II 10x80 25/15/- US	**536860**	●	10	90	12 x 80	55 / 25	65 / 15	- / -	SW 15	50
FBS II 10x100 45/35/15 US	**536862**	●	10	110	12 x 100	55 / 45	65 / 35	85 / 15	SW 15	50

Chemical fixings

Chemical fixing solutions for heavy-duty fixings in concrete and masonry.

Technical data

Injection mortar FIS HB 345 S

Static mixer FIS MR Plus

Item	Item No.	Approval ETA	Languages on the cartridge	Scale unit	Contents	Sales unit [pcs]
FIS HB 345 S	**033211** [1]	●	DE, EN, FR, ES, NL, CS	180	1 cartridge 360 ml, 2 x FIS MR Plus	6
FIS MR Plus	**545853**	–	–	–	10 static mixer FIS MR Plus	10

1) incl. 2 static mixer per cartridge.

Technical data

FHB II-P 10 x 60

FHB II-PF 10 x 60

Item	Item No.	Approval ETA	Drill hole diameter d_0 [mm]	Drill hole depth h_0 [mm]	Anchorage depth h_{ef} [mm]	Match	Sales unit [pcs]
FHB II-P 10 x 60	**096847**	●	10	75	60	FHB II-S M 10 x 60	10
FHB II-PF 10 x 60	**500547**	●	10	75	60	FHB II-S M 10 x 60	10

Technical data

Highbond anchor FHB II-A S (short version)

Item	Zinc-plated steel Item No. gvz	Stainless steel Item No. R	Highly corrosion resistant steel Item No. HCR	Approval ETA	Drill hole diameter d_0 [mm]	Drill hole depth h_0 [mm]	Anchorage depth h_{ef} [mm]	Usable length t_{fix} [mm]	Thread M	Width across nut SW [mm]	Sales unit [pcs]
FHB II-A S M10 x 60/10	**097072**	**097630**	**097704** [1]	●	10	75	60	10	M 10	17	10
FHB II-A S M10 x 60/20	**097073**	**097631**	**097705** [1]	●	10	75	60	20	M 10	17	10

1) Delivery time on request.

Technical data

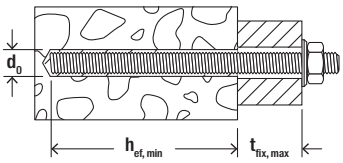
Injection mortar FIS V 360 S

Static mixer FIS MR Plus

Item	Item No.	Approval			Languages on the cartridge	Scale unit	Contents	Sales unit
		DIBt	ETA	ICC				[pcs]
FIS V 360 S	094404	●	●	●	DE, FR, NL, TR, HU, AR	180	1 cartridge 360 ml, 2 x FIS MR Plus	6
FIS V 360 S	094405	●	●	●	EN, IT, PT, ES, ZH, JA	180	1 cartridge 360 ml, 2 x FIS MR Plus	6
FIS V 360 S	068435	●	●	●	DA, SV, NO, FI, PL, EL	180	1 cartridge 360 ml, 2 x FIS MR Plus	6
FIS V 360 S	043994	●	●	●	CS, SK, PL, HU, RO, RU	180	1 cartridge 360 ml, 2 x FIS MR Plus	6
FIS V 360 S	502283	●	●	●	LT, LV, ET, UK, RU, KK	180	1 cartridge 360 ml, 2 x FIS MR Plus	6
FIS MR Plus	545853	–	–	–	–	–	10 static mixer FIS MR Plus	10

Technical data in concrete

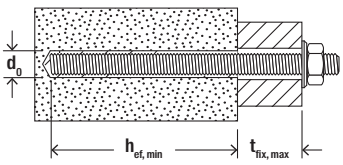
Threaded rod FIS A



Item	Zinc plated, steel grade 5.8 Item No. gvz	Stainless steel Item No. R	Approval ETA	Approval ICC	Drill hole diameter d_0 [mm]	Min. / max. anchorage depth [mm]	Min. / max. usable length [mm]	Min. / max. filling quantity [scale units]	Sales unit [pcs]
FIS A M 10 x 110	090278	090444	●	●	12	60 / 96	1 / 37	3 / 4	10

Technical data in solid brick masonry

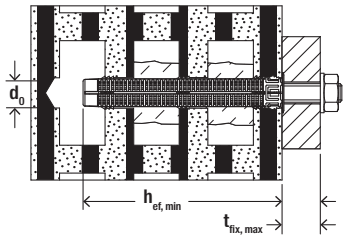
Threaded rod FIS A



Item	Zinc plated, steel grade 5.8 Item No. gvz	Stainless steel Item No. R	Approval ETA	Drill hole diameter d_0 [mm]	Min. effective anchorage depth acc. ETA [mm]	Max. effective length acc. ETA [mm]	Fill quantity for effect. anchoring depth [scale units]	Sales unit [pcs]
FIS A M 10 x 110	090278	090444	●	12	50	30	3	10

Technical data in perforated brick masonry

Threaded rod FIS A

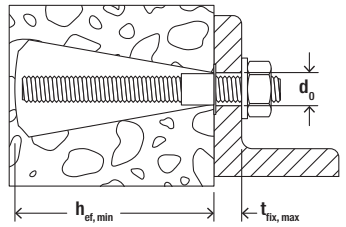


Item	Zinc plated, steel grade 5.8 Item No. gvz	Stainless steel Item No. R	Approval ETA	Drill hole diameter in perforated brick masonry d_0 [mm]	Min. anchorage depth in perforated brick masonry $h_{ef, min}$ [mm]	Max. useful length in perforated brick masonry $t_{fix, max}$ [mm]	Suitable injection anchor sleeve	Sales unit [pcs]
FIS A M 10 x 110	090278	090444	●	16	85	12	FIS H 16 x 85 K	10

5

Technical data in undercut drill hole in aerated concrete

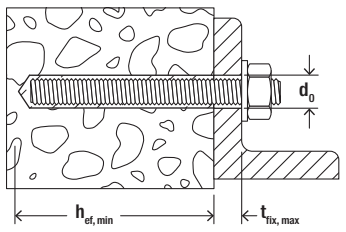
Threaded rod FIS A



Item	Zinc plated, steel grade 5.8 Item No. gvz	Stainless steel Item No. R	Approval ETA	Drill hole diameter in aerated concrete in undercut drill hole [mm]	Min. / max. anchorage depth in aerated concrete in undercut drill hole h_{ef} [mm]	Min. / max. usable length in aerated concrete t_{fix} [mm]	Filling quantity for min. / max. anchorage depth in aerated concrete [scale units]	Sales unit [pcs]
FIS A M 10 x 110	090278	090444	●	14	75 / 95	22 / 2	15 / 20	10

Technical data in cylindrical drill hole in aerated concrete

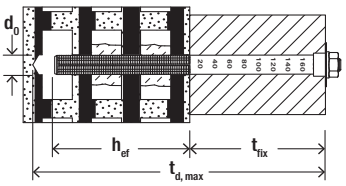
Threaded rod FIS A



Item	Zinc plated, steel grade 5.8 Item No. gvz	Stainless steel Item No. R	Approval ETA	Drill hole diameter in aerated concrete in cylindrical drill hole d_0 [mm]	Anchorage depth in aerated concrete in cylindrical drill hole h_{ef} [mm]	Usable length t_{fix} [mm]	Fill quantity for effect. anchorage depth in aerated concrete [scale units]	Sales unit [pcs]
FIS A M 10 x 110	090278	090444	●	12	100	–	–	10

Technical data

Injection push-through anchor sleeve FIS HK



Item	Item No. gvz	Approval ETA	Drill hole diameter d_0 [mm]	Max. drill hole depth [mm]	Effect. anchorage depth h_{ef} [mm]	Max. fixture thickness t_{fix} [mm]	Match	Fill quantity [scale units]	Sales unit [pcs]
FIS H 16 x 85 K	**041902**	●	16	95	85	–	FIS A M8-M10, FIS E M6-M8	–	50

5

Technical data

Cone drill PBB

Centring sleeve PBZ

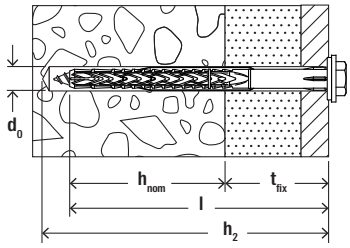
Item	Item No.	Approval ETA	Match	Contents	Sales unit [pcs]
Cone drill PBB	**090634**	●	M8 - M12; FIS E	1x cone drill PBB	1
Centring sleeve PBZ	**090671**	●	M8 - M12; FIS E	10x centring sleeve PBZ, 5x injection adapter	10

Frame fixings

Secure fixing for façade substructures, interior fittings, window and door installation and timber construction

Technical data

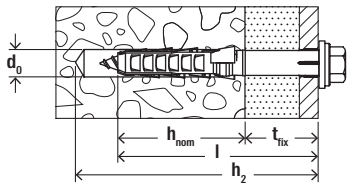
SXRL-FUS - with fischer hexagon head safety screw, moulded washer and integrated bit recess



Item	Zinc-plated steel Item No. gvz	Stainless steel Item No. A4	Approval ETA	 ICC	Drill diameter d_0 [mm]	Min. drill hole depth for through fixings h_2 [mm]	Usable length at anchorage depth 50mm t_{fix} [mm]	Usable length at anchorage depth 70mm t_{fix} [mm]	Usable length at anchorage depth 90mm t_{fix} [mm]	Anchor length l [mm]	Drive	Sales unit [pcs]
SXRL 10 x 80 FUS	**522719**	**522730**	●	●	10	90	30	10	–	80	T40/SW13	50
SXRL 10 x 100 FUS	**522720**	**522731**	●	●	10	110	50	30	10	100	T40/SW13	50
SXRL 10 x 120 FUS	**522721**	**522732**	●	●	10	130	70	50	30	120	T40/SW13	50
SXRL 10 x 140 FUS	**522723**	**522733**	●	●	10	150	90	70	50	140	T40/SW13	50
SXRL 10 x 160 FUS	**522724**	**522734**	●	●	10	170	110	90	70	160	T40/SW13	50

Technical data

SXR-FUS - with fischer hexagon head safety screw, moulded washer and integrated T40 bit recess

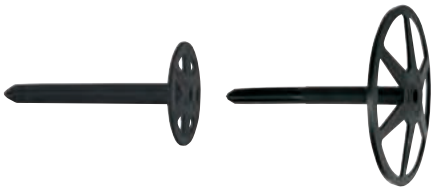


Item	Zinc-plated steel Item No. gvz	Stainless steel Item No. A4	Approval ETA	Drill hole diameter d_0 [mm]	Min. drill hole depth for through fixings h_2 [mm]	Min. anchorage depth h_{nom} [mm]	Anchor length l [mm]	Max. fixture thickness t_{fix} [mm]	Drive	Sales unit [pcs]
SXR 10 x 60 FUS	**046329**	**046339**	●	10	70	50	60	10	T40/SW13	50
SXR 10 x 80 FUS	**046330**	**046340**	●	10	90	50	80	30	T40/SW13	50
SXR 10 x 100 FUS	**046331**	**046342**	●	10	110	50	100	50	T40/SW13	50
SXR 10 x 120 FUS	**046332**	**046343**	●	10	130	50	120	70	T40/SW13	50
SXR 10 x 140 FUS	**046333**	**046344**	●	10	150	50	140	90	T40/SW13	50
SXR 10 x 160 FUS	**046334**	**046345**	●	10	170	50	160	110	T40/SW13	50

Insulation fixings

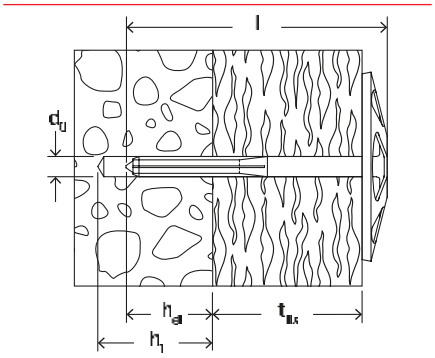
Fixing elements for fixing insulation boards

Technical data



Insulation support DHK 45, plate-ø 45 mm

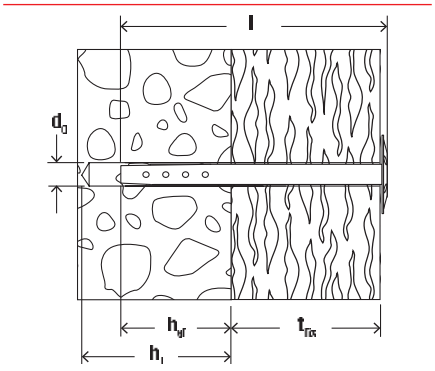
Insulation support DHK, plate-ø 90 mm



Item	Item No.	Drill hole diameter d_0 [mm]	Min. drill hole depth h_1 [mm]	Effect. anchorage depth h_{ef} [mm]	Anchor length l [mm]	Max. fixture thickness t_{fix} [mm]	Sales unit [pcs]
DHK 80	**080939**	8	30	20	105	80	250
DHK 100	**080940**	8	30	20	125	100	250
DHK 120	**080941**	8	30	20	145	120	200
DHK 140	**080949**	8	30	20	165	140	200
DHK 160	**512150**	8	30	20	185	160	100
DHK 180	**512151**	8	30	20	205	180	100
DHK 200	**512153**	8	30	20	225	200	100
DHK 220	**512154**	8	30	20	245	220	100

Technical data

Insulation support metal DHM, washer-ø 35 mm



Item	Item No.	Drill hole diameter d_0 [mm]	Min. drill hole depth h_1 [mm]	Effect. anchorage depth h_{ef} [mm]	Anchor length l [mm]	Max. fixture thickness t_{fix} [mm]	Sales unit [pcs]
DHM 90	**088803** [1]	8	60	50	140	60 - 90	250
DHM 135	**503131** [1]	8	60	50	185	120 - 135	250
DHM 150	**061582** [1]	8	60	50	200	150	250
DHM 200	**519317** [1]	8	60	50	250	170 - 200	125
DHM 250	**519318** [1]	8	60	50	300	220 - 250	125

1) Fixing tapped into aerated concrete G2/G4 without pre-drilling.

Technical data

HK 36 plastic

HV 36 zinc

ISO-disk 8/60

DT 60/10

DTM-A4

DTM 70/10

Item	Item No.	Disc Ø [mm]	Disc height [mm]	Through hole d_f [mm]	Steel sheet thickness s [mm]	Sales unit [pcs]
HV 36 zinc	**004286**	36	3.5	5	0,7	100
HK 36 plastic	**004283**	36	4.5	5	–	100
ISO-disk 8/60	**001680**	60	7	8	–	100
DT 60/10	**044317**	60	7	10	–	50
DT 90/4	**080957** [1]	90	9.3	4	–	250
DT 90/8	**080958**	90	9.3	8,2	–	250
DTM 60/10 A4	**088805**	60	3	10,5	0,5	100
DTM 70/10 zinc	**044318**	70	3	10,5	–	50

1) The central hole is adapted in such a way that the disc clamps well on the 4 mm wire of the VB walltie.

Power tools

Professional electrical devices from a single source.

Assortment

FSS 18V 400 BL
- Cordless impact wrench set

FSS 18V 600
- Cordless impact wrench set

Item	Art.-No.	Belt hook	Sockets [SW]		Test sleeves FUP for concrete screw diameter		Battery pack 4.0 Ah		Charger		Packaging L-Boxx, stackable
		FSS BH	10 / 13 / 15	15 / 17 / 21	8 / 10	12 / 14	1x	2x	Type EU	Type UK	
FSS 18V 400 BL - Set 1	552922	●	●		●						●
FSS 18V 400 BL - Set 2	552924	●	●		●		●				●
FSS 18V 400 BL - Set 3	552926	●	●		●			●	●		●
FSS 18V 400 BL - Set 4	552928	●	●		●			●		●	●
FSS 18V 600 - Set 1	552923	●		●		●					●
FSS 18V 600 - Set 2	552925	●		●		●	●				●
FSS 18V 600 - Set 3	552927	●		●		●		●	●		●
FSS 18V 600 - Set 4	552929	●		●		●		●		●	●

Accessories

Checking gauge FUP

Nut SW

Nut TX

FMB T40 Maxx Bit

Profi-bit FPB T50 5/16"

Item	Item No.	Internal diameter D [mm]	Drive	Match	Sales unit [pcs]
FUP 8	537200	9,9	–	FBS II 8	1
FUP 10	537201	12,0	–	FBS II 10	1
FUP 12	537202	13,0	–	FBS II 12	1
FUP 14	537203	15,0	–	FBS II 14	1
TX40	538575 [1]	–	1/2" - 1/4"	FBS II 8 / FBS II 8 SK	1
TX50	538576 [2]	–	1/2" - 5/16"	FBS II 10 / FBS II 10 SK	1
SW10	538577	–	–	FBS II 6	1
SW13	538578	–	1/2" / SW13	FBS II 8	1
SW15	538579	–	1/2" / SW15	FBS II 10	1
SW17	538580	–	1/2" / SW17	FBS II 12	1
SW21	538581	–	1/2" / SW21	FBS II 14	1
FMB T30 Maxx Bit W 5	533158	–	TX30	FBS II 6	1
FMB T40 Maxx Bit W 5	533159	–	TX40	FBS II 8 / FBS II 8 SK	1
FPB Profi-Bit T50 5/16"	538574	–	TX50	FBS II 10 SK	1

1) Suitable for FMB TX Maxx Bit

2) Suitable for FPB Profi-Bit T50 5/16"

Technical data

Vacuum cleaner FVC 35 M

Item	Art.-No.	Voltage [V]	Max. power from suction cup to socket [Watt]	Max. power [Watt]	Max. volume flow [l/s]	Negative pressure [mbar]	Noise pressure [dB (A)]	Contents	Weight [kg]	Dimensions [cm]
FVC 35 M	**551924**	220-240	2000 (220 - 240V~)	1400	73*	270*	69	1x Vaccum cleaner FVC 35 M, 1x Suction hose FVC SH, 2x Folded filter cartridges FVC FC, 1x Bag FVC PB	15,5	53 x 40 x 56 (Power cable length: 800)

* Measured at motor head

Accessories

Cleaning set FVC AP

Item	Item No.	Adapted for	Material	Contents	Sales unit [pcs]
FVC AP	**552058**	FVC 35 M	Plastic	1 x Hand tube with supplementary air slide, 30 cm long, Ø 35 mm 2 x Suction tube, 50 cm long, Ø 35 mm 1 x Floor nozzle, 30 cm broad, Ø 35 mm 1 x Crevice nozzle, 22 cm long, Ø 35 mm	1

Accessories

Filter bag FVC FB

Bag FVC PB

Folded filter cartridges FVC FC

Suction hose FVC SH

Push handle FVC PH

Item	Item No.	Adapted for	Material	Dimensions accessories	Contents	Sales unit [pcs]
FVC FB	**552059**	FVC 35 M	Fleece	For 35 litre plastic container		1
FVC PB	**552060**	FVC 35 M	Polyethylene	For 35 litre plastic container		1
FVC FC	**552061**	FVC 35 M	Polyester	Filter surface 8600 cm2		1
FVC SH	**552062**	FVC 35 M	Polyethylene	Ø 35 mm, length 5 m		1
FVC PH	**552063**	FVC 35 M	Stainless steel	–		1

Accessories

Hollow drill bit FHD

Detail:
Top of drill FHD
Ø 12 - 14 mm

Detail:
Top of drill FHD
Ø 16 - 18 mm
Top of drill FHD Max
Ø 16 - 35 mm

Item	Item No.	Contents	Sales unit [pcs]
FHD 12/200/330	**546597**	1	1
FHD 14/250/380	**546598**	1	1
FHD 16/250/380	**546599**	1	1
FHD 18/320/450	**546600**	1	1
FHD Max 16/400/620	**546601**	1	1
FHD Max 18/400/620	**546602**	1	1
FHD Max 20/400/620	**546603**	1	1
FHD Max 24/400/620	**546604**	1	1
FHD Max 28/600/820	**546605**	1	1
FHD Max 30/600/820	**546606**	1	1
FHD Max 35/650/870	**546607**	1	1

Technical data

Gas actuated fastening tool
FGC 100

Battery charger
FGC 100 - BC

Li-Ion battery
FGC 100-B 7.2 V - 2.5 Ah

XL-BOXX

Item	Item No.	Contents	Technical details	Sales unit [pcs]
Set FGC 100 (EU)	**553411**	1x fischer gas actuated fastening tool FGC 100, 1x Magazine FGC 100 – M26, 1x Battery charger FGC 100 – BC, 2x Li-Ion battery FGC 100-B 7.2 V – 2.5 Ah, 1x Push bar, 2x Hex wrench, 1x XL-BOXX	100 joules setting energy, 4.1 kg with battery, Capacity of 26 nails, curved, Input 100 – 240 V, Output 8.4 V – 2 A, > 8,000 fixings per charge, For the clearance of jammed nails, - Is fully compatible with the L-BOXX	1
Set FGC 100 (UK)	**553585**	1x fischer gas actuated fastening tool FGC 100, 1x Magazine FGC 100 – M26, 1x Battery charger FGC 100 – BC, 2x Li-Ion battery FGC 100-B 7.2 V – 2.5 Ah, 1x Push bar, 2x Hex wrench, 1x XL-BOXX	100 joules setting energy, 4.1 kg with battery, Capacity of 26 nails, curved, Input 100 – 240 V, Output 8.4 V – 2 A, > 8,000 fixings per charge, For the clearance of jammed nails, - Is fully compatible with the L-BOXX	1
Set FGC 100 (US)	**553586**	1x fischer gas actuated fastening tool FGC 100, 1x Magazine FGC 100 – M26, 1x Battery charger FGC 100 – BC, 2x Li-Ion battery FGC 100-B 7.2 V – 2.5 Ah, 1x Push bar, 2x Hex wrench, 1x XL-BOXX	100 joules setting energy, 4.1 kg with battery, Capacity of 26 nails, curved, Input 100 – 240 V, Output 8.4 V – 2 A, > 8,000 fixings per charge, For the clearance of jammed nails, - Is fully compatible with the L-BOXX	1
Set FGC 100 (AUS)	**553587**	1x fischer gas actuated fastening tool FGC 100, 1x Magazine FGC 100 – M26, 1x Battery charger FGC 100 – BC, 2x Li-Ion battery FGC 100-B 7.2 V – 2.5 Ah, 1x Push bar, 2x Hex wrench, 1x XL-BOXX	100 joules setting energy, 4.1 kg with battery, Capacity of 26 nails, curved, Input 100 – 240 V, Output 8.4 V – 2 A, > 8,000 fixings per charge, For the clearance of jammed nails, - Is fully compatible with the L-BOXX	1

Accessories

Magazine standard
FGC 100-M26

Magazine extended
FGC 100-M50

Battery charger
FGC 100 - BC

Li-Ion battery
FGC 100-B 7.2 V - 2.5 Ah

Item	Item No.	Technical details	Sales unit [pcs]
Magazine standard FGC 100-M26	**553412**	Capacity of 26 nails, curved	1
Magazine extended FGC 100-M50	**553717**	Capacity of 50 nails, curved	1
Battery charger FGC 100-BC (EU)	**553414**	Input 100-240 V, Output 8.4 V – 2 A	1
Battery charger FGC 100-BC (UK)	**553588**	Input 100-240 V, Output 8.4 V – 2 A	1
Battery charger FGC 100-BC (US)	**553589**	Input 100-240 V, Output 8.4 V – 2 A	1
Battery charger FGC 100-BC (AUS)	**553590**	Input 100-240 V, Output 8.4 V – 2 A	1
Li-Ion battery FGC 100-B 7.2V 2.5Ah	**553415**	> 8,000 fixings per charge	1
FGC 100 Cleaning kit	**553718**	150 ml Cleaner, 100 ml Lubricating Oil and tool rubber sealing rings	1

Accessories

Fuel cell
FC 165

Standard nail
DFN

High performance nail
DFNH

EWI plug
TFD

EWI nose
FGC 100 - N EWI

Magnetic nose piece supplement FGC 100 – N magnetic

5

Item	Item No.	Length L [mm]	Technical details	Contents
Fuel cell FC 165	**553416**	165	For more than 1,100 fixings	–
Standard nail DFN 17	**553417**	17	Gvz with 4 µm coating thickness, for soft concrete < C30/37, shaft diameter 2.6 mm, nail length 17 mm	1,008 nails + 1 fuel cell
Standard nail DFN 20	**553418**	20	Gvz with 4 µm coating thickness, for soft concrete < C30/37, shaft diameter 2.6 mm, nail length 20 mm	1,008 nails + 1 fuel cell
Standard nail DFN 22	**553419**	22	Gvz with 4 µm coating thickness, for soft concrete < C30/37, shaft diameter 2.6 mm, nail length 22 mm	1,008 nails + 1 fuel cell
Standard nail DFN 25	**553420**	25	Gvz with 4 µm coating thickness, for soft concrete < C30/37, shaft diameter 2.6 mm, nail length 25 mm	1,008 nails + 1 fuel cell
Standard nail DFN 30	**553421**	30	Gvz with 4 µm coating thickness, for soft concrete < C30/37, shaft diameter 2.6 mm, nail length 30 mm	1,008 nails + 1 fuel cell
Standard nail DFN 32	**553422**	32	Gvz with 4 µm coating thickness, for soft concrete < C30/37, shaft diameter 2.6 mm, nail length 32 mm	1,008 nails + 1 fuel cell
Standard nail DFN 35	**553423**	35	Gvz with 4 µm coating thickness, for soft concrete < C30/37, shaft diameter 2.6 mm, nail length 35 mm	1,008 nails + 1 fuel cell
Standard nail DFN 40	**553424**	40	Gvz with 4 µm coating thickness, for soft concrete < C30/37, shaft diameter 2.6 mm, nail length 40 mm	1,008 nails + 1 fuel cell
High performance nail DFNH 15	**553425**	15	Gvz with 4 µm coating thickness, for hard concrete ≥ C30/37 and steel, shaft diameter 3.0 mm, nail length 15 mm	1,008 nails + 1 fuel cell
High performance nail DFNH 17	**553426**	17	Gvz with 4 µm coating thickness, for hard concrete ≥ C30/37 and steel, shaft diameter 3.0 mm, nail length 17 mm	1,008 nails + 1 fuel cell
High performance nail DFNH 22	**553427**	22	Gvz with 4 µm coating thickness, for hard concrete ≥ C30/37 and steel, shaft diameter 3.0 mm, nail length 22 mm	1,008 nails + 1 fuel cell
High performance nail DFNH 27	**553428**	27	Gvz with 4 µm coating thickness, for hard concrete ≥ C30/37 and steel, shaft diameter 3.0 mm, nail length 27 mm	1,008 nails + 1 fuel cell
High performance nail DFNH 32	**553429**	32	Gvz with 4 µm coating thickness, for hard concrete ≥ C30/37 and steel, shaft diameter 3.0 mm, nail length 32 mm	1,008 nails + 1 fuel cell
FGC 100-N EWI	**554869**	–	For the use of fischer EWI plugs TFD 30 and TFD 50	1
FGC 100-N magnetic	**553715**	–	For the use with metal washers	2

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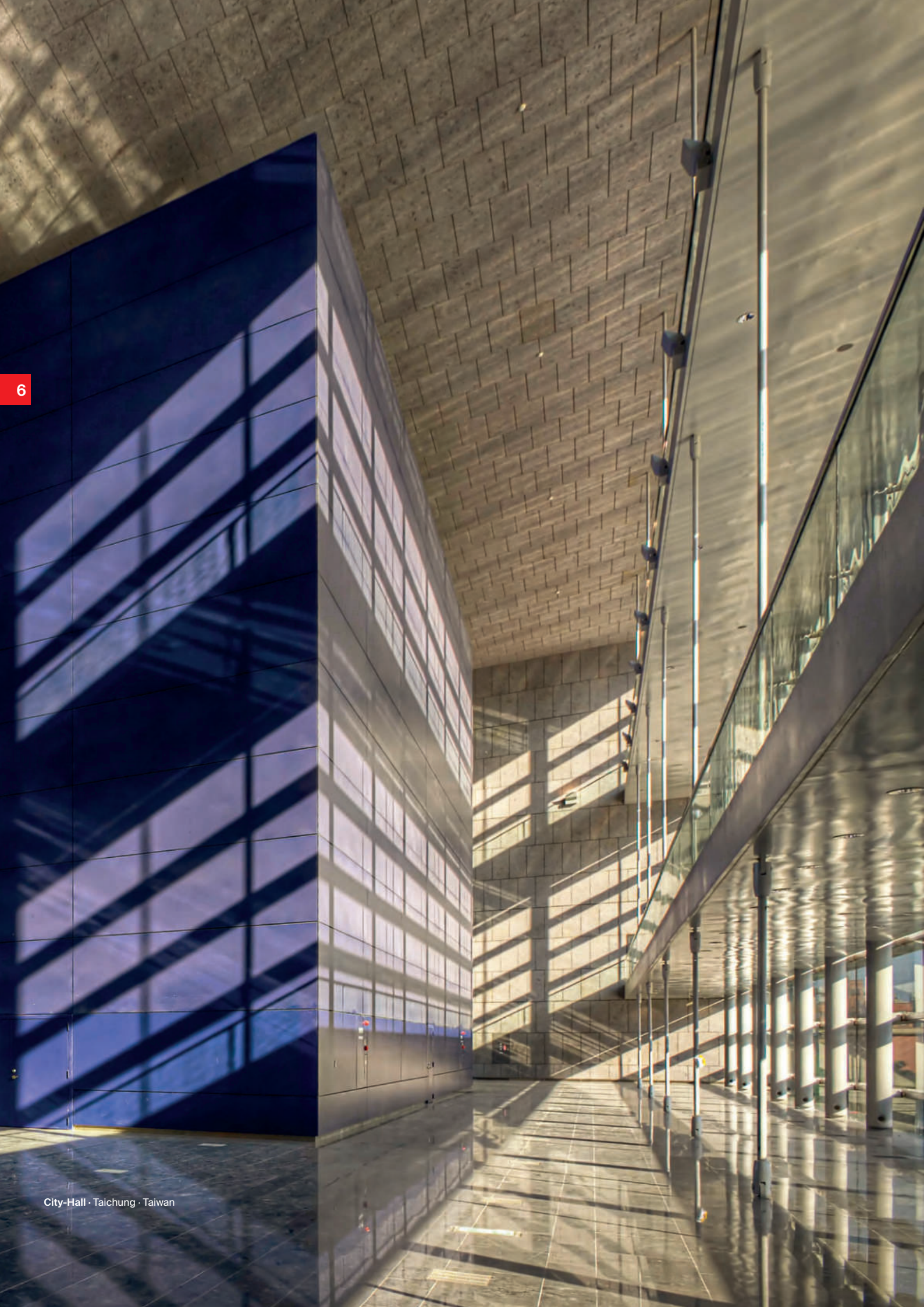


City-Hall · Taichung · Taiwan

6
Basics – good to know.

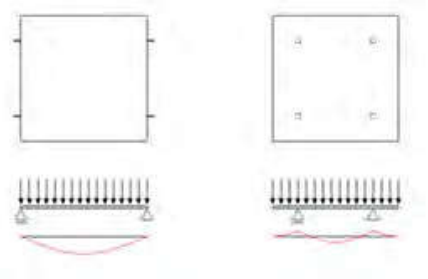
Basic knowledge undercut anchors

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 fixing system that 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 common systems. Compared to common fixings, this technology provides a multiple load capacity, allows lower panel thicknesses and larger panel formats due to lower panel 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.

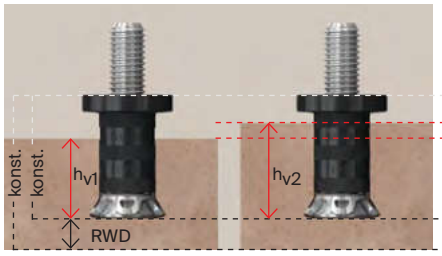
Various anchor types and installation methods.

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.

Stand-off installation
Thanks to the stand-off installation, the panel thickness tolerances that occur with natural stone panels can 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.

Flush installation of a fischer Zykon panel anchor FZP II.



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

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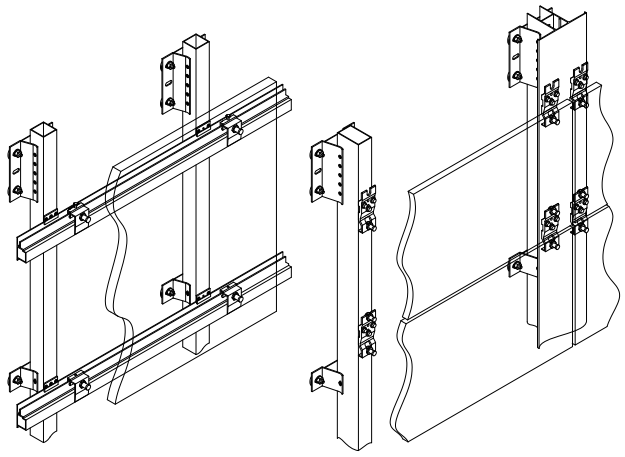
Basic knowledge subframe systems

Connection of the external wall and cladding.

The subframe is the structural link between the external wall and the cladding. It allows the compensation of the shell tolerances. Wall holders and vertical profiles are responsible for the adjustable part of the façade structure. The constant part of the façade construction is determined by the thickness of the façade material and the constant construction dimension of the selected subframe system. fischer offers various types of façade subframe systems.
The panel material, panel size and system loads play a decisive role in the selection of the subframe.
Different façade cladding materials require different demands on a subframe, e.g. in terms of load-bearing capacity, design and installation.



Systematic wall construction fischer subframe system

Selection of the suitable subframe system depending on the facade material			
	Horizontal profiles with clasps	Horizontal profiles with clasps	Suspension clasps construction
	Bracket Solution – BS	Bracket Solution Light – BSL	Vertical Solution – VS
			
Natural stone	++	+	++
Ceramics	0	+	0
HPL	+	++	–
Fiber cement	+	++	–
Glass	+	+	+

The advantages at a glance

- Quick assembly due to hook-in system
- No visible fixing even in the joints
- Designed for high loads
- Bridging of non-load-bearing building fabric
- Ideally suited for skeleton constructions
- Mechanical fixing of reveal panels
- Non-destructive replacement of façade panels

7 Service

Technical manual FireStop.

Products for use in passive fire protection.

The FireStop catalogue offers many facts and assists with fast and safe product selection, e.g:

- Basics of passive fire protection
- Product and system presentations
- Application guides
- Detailed technical data and drawings
- In short: Everything you need to know about the use of fischer passive fire protection systems

7

Don‘t wait. Ask for the technical manual FireStop under the hotline +49 (0) 180 5 202901 or by fax +49 (0) 7443 12 – 4500.

Professional App

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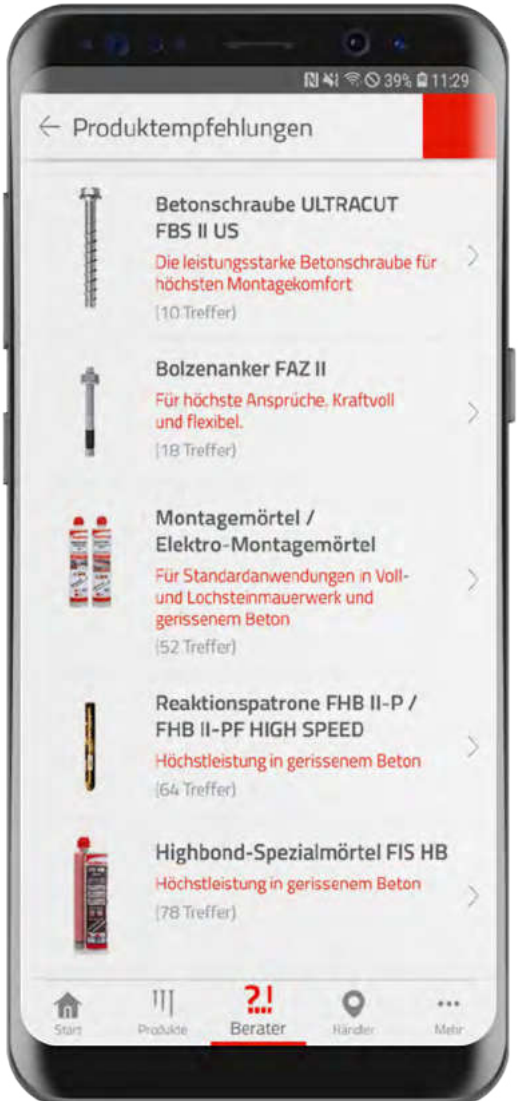
Online Catalogue
Inform yourself about all fischer products. You will also find relevant technical data and load values.

News
Here you will find all information about fischer - like product innovations or company highlights.

Product advisor
Find the right fixing solution directly to your application.



Barcode scanner
Scan your product and you will receive all relevant information.
For example, for installation.

Live chat
Benefit in direct contact from the many years of practical experience of the fischer engineers and technicians.

Dealer search
Find the dealer nearest you, which also offers your selected product in the assortment.

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Main catalogue Installation Systems.

Products for use in installation technology

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- Product and system presentations
- Anchors suitable to fix installation system components
- Application support
- Detailed technical data and drawings
- Basics knowledge of installation systems
- In short: Everything you need to know about the fischer installation systems

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- Product descriptions with advantages/benefits at a glance
- Assembly tips
- Application support
- Detailed technical data and drawings
- Basics knowledge of fixing technology
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The anchor dimensioning program for steel and composite anchors in concrete.

WOOD-FIX:
For the calculation of wood connections and reinforcements with fischer screws.

INSTALL-FIX:
The design program for building services.

REBAR-FIX:
For the design of subsequent reinforcement connections in reinforced concrete construction.

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www.fischer.de/fixperience

FACADE-FIX:
To design the anchoring of Facade substructures made of wood.

RAIL-FIX:
To design the anchoring of Stair and balcony railings.

MORTAR-FIX:
To determine the injection mortar requirement for composite anchors in concrete.

Electronic planning folder:
All important documents and records from fischer in one program.

Main catalogue Screws.

Products for use in timber construction

The screw catalogue offers many facts and helps with fast and safe product selection, for example:

- Description of assortment
- Load tables for construction screws
- Detailed technical data

Don´t wait. Require the main catalogue Screws at the Hotline +49 (0) 180 5 202901 or per fax to +49 (0) 7443 12 – 4500.

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