

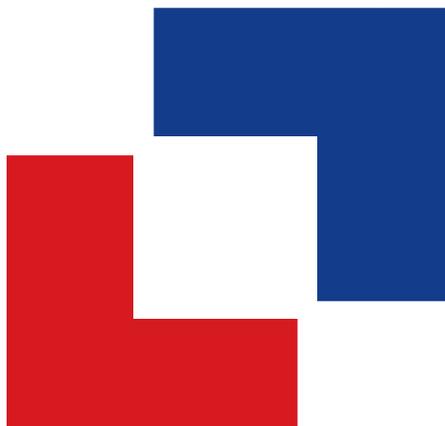
*Your Fixing Systems Specialist*

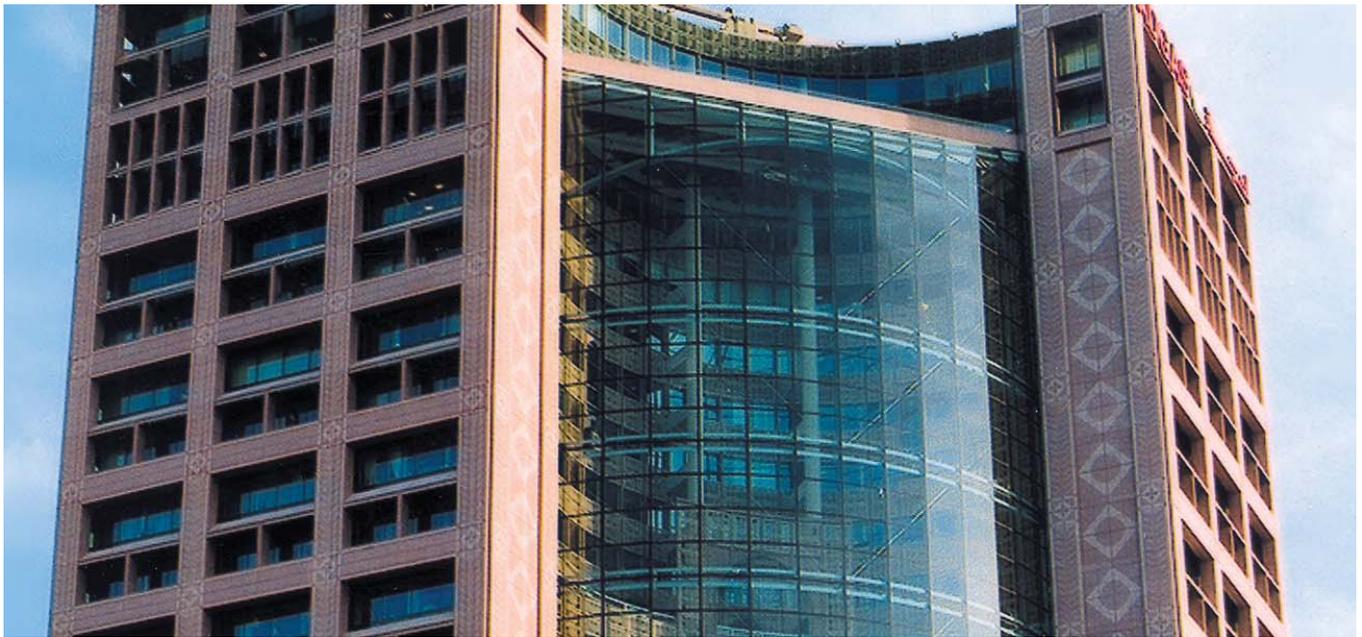


## Fixing Systems Solutions for Construction

Specializing in the design, manufacturing, and supply of high-quality structural metal components for facades, concrete, and industrial applications. Our solutions are engineered to meet the highest industry standards, ensuring durability, precision, and exceptional performance in every project.

Company Brochure - HAZ-CB-EN/01.25





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HAZ Metal Fixing Systems  
is a member of HAZ Group of Companies



HAZ Metal is certified with integrated management systems by TUV SUD for ISO 9001:2008, ISO 14001:2004 & OHSAS 18001:2007

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## Company Profile

HAZ Metal specializes in the design and manufacture of construction fixing systems for Facade, Concrete and Industrial applications.

HAZ Metal is known as a high-quality and reliable solution provider for offering practical solutions in the design and supply of structural metal components used in construction.

The company is dedicated to their clients, continually enhancing its design services and product range. As a supplier of fixing systems to major international projects, HAZ Metal has built a strong and positive reputation amongst their customers. Their involvement in major projects worldwide has firmly established their track record of excellence.

HAZ Metal aims to be a prominent player in the façade construction industry and strives to get involved in challenging projects to share its knowledge and experience with the industry.



HAZ Metal Sanayi ve Ticaret A.S. - Iskenderun, Turkey



HAZ Metal has strategically expanded its global presence by establishing local companies in key markets worldwide. Operating through its own entities in Germany, the United Kingdom, Egypt, United Arab Emirates, China and Turkey, HAZ Metal ensures focused service delivery tailored to regional needs.

Founded in 2004, HAZ Metal GmbH, established in Wertheim, Germany, serves the European market with comprehensive design and supply solutions. Equipped with a sizable warehouse and production facility, the company specializes in manufacturing products essential for their local market, including brackets for brickwork and concrete panel cladding. With a dedicated technical team, HAZ Metal has significantly enhanced the structural integrity of its offerings, emphasizing advancements in engineering practices, particularly in connection systems for concrete and brickwork support.



HAZ Metal Deutschland GmbH - Wertheim, Germany



## Production capacity



The HAZ Metal factory is located in Iskenderun, the southern part of Turkey. Production uses the latest technological methods with ISO 9001:2008 quality management control. Total quality managements systems have been established for every stage of day to day operations.

The factory is based in an area of 17.000 square meters with an enclosed production area of 10.000 square metres. There are over 100 work stations with a production capacity of more than 500 tons per month. HAZ Metal has the production capacity to supply major projects of any size with high quality fixing systems.

Since 1993, the factory has increased its production capacity to meet the expanding building materials demand globally. HAZ Metal has taken the necessary steps to ensure high quality production with acceptable lead times.

This has been done by establishing state of the art production lines with modern machinery at HAZ Metal. The factory is equipped with machines capable of processing any type of cold working production methods for metals.

HAZ Metal has its own workshop to produce moulds and dies required for the production of custom designed fixing systems.



• Coil slitting line



• Automated robotic welding line



• Laser cutting machine



• Automated pressing line



• Hydromat - 16 head auto transformer



• Automated channel processing line



• Testing laboratory



• Welding robot



• Automatic end part former

## Technical support

### Comprehensive design & engineering services

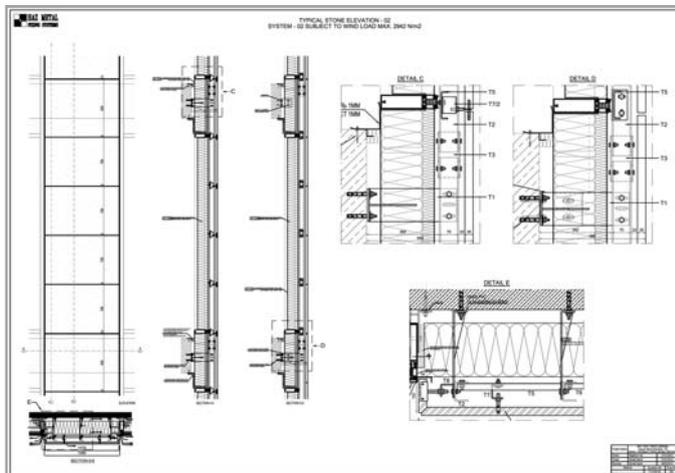
HAZ Metal specializes in the design of advanced fixing systems and the preparation of detailed structural calculations. Our in-house technical department utilizes state-of-the-art CAD software and stress analysis tools to deliver precise and reliable solutions.

By analysing the technical specifications of each project, our team proposes fixing systems that are secure, user-friendly, cost-effective, and tailored to meet project criteria. Custom designs can also be developed to align seamlessly with architectural drawings.

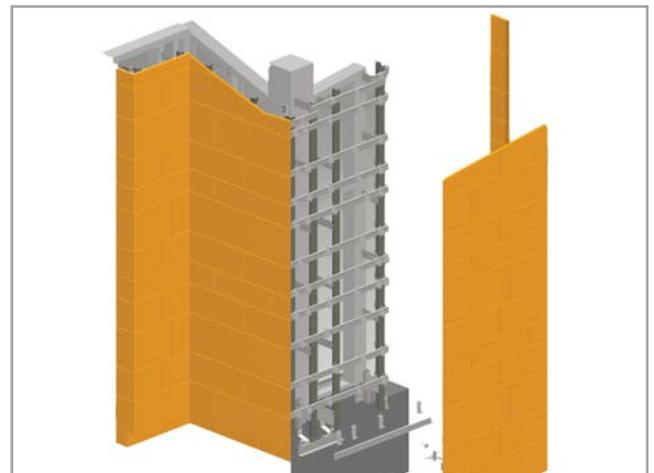
To ensure compliance and approval, HAZ Metal provides comprehensive technical documentation for submission to project officials. Our design and structural calculations for natural stone fixing systems are guided by rigorous engineering principles.

For complex structures requiring robust structural integrity—such as sub-channel systems, secondary steel frameworks, and pre-assembled facade panels—finite element stress analysis is conducted to ensure optimal performance.

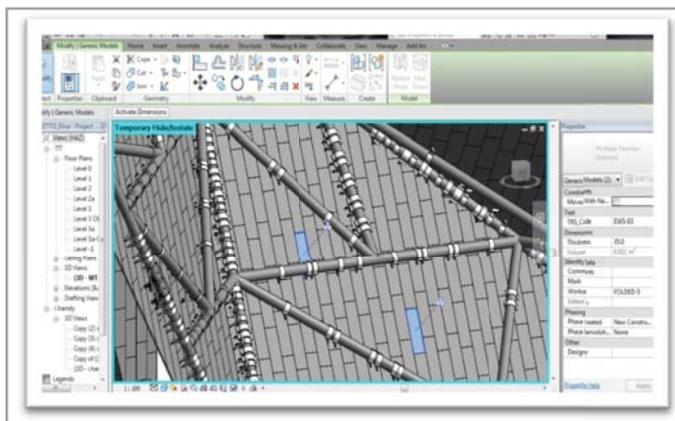
HAZ Metal offers design and engineering services aligned with globally recognized standards. Our engineering department adheres to project specifications and performs design and dimensioning according to the required criteria, delivering solutions that meet international benchmarks of quality and precision.



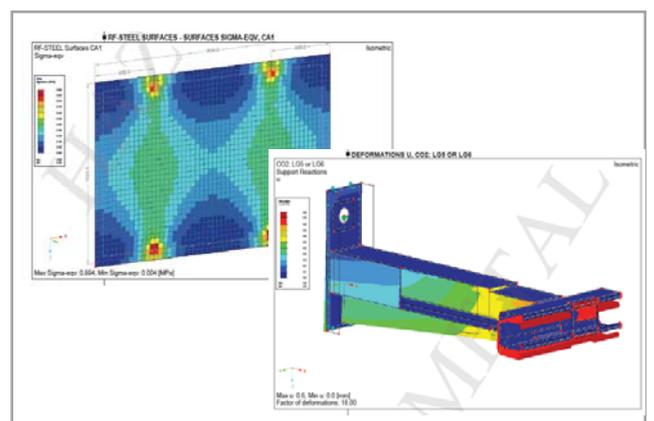
• Shop drawings with application details



• 3D design - ifc modelling



• Parametric design



• Finite element method stress analysis

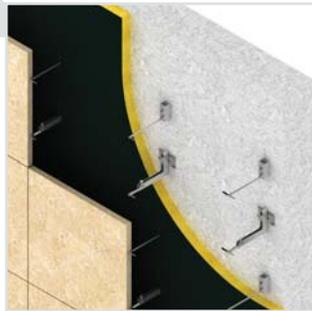
# Products range

## Structural metal components for construction

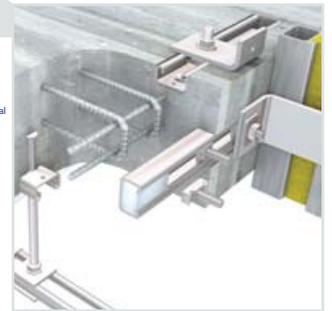
Since its foundation in 1993, HAZ Metal has been at the forefront of producing innovative fixing systems for facade cladding construction and various structural metal components. With unparalleled technical expertise and state-of-the-art manufacturing technology, we offer a diverse range of fixing solutions.

Adhering to rigorous international standards, HAZ Metal places great emphasis on precision and quality products. Each product undergoes thorough checks at every stage of production. HAZ Metal prides itself on its skilled workforce, modern machinery, and a quality control team led by experienced engineers, ensuring that every fixing system meets the high standards expected in premium construction projects.

### Stone fixing systems



### Anchor channel systems & accessories



### Sub channel systems



### Brickwork support & restraint systems



### Concrete panel support systems



### Wind posts & Lintels



### Undercut bolts for stone connections



### Framing channels & accessories



## Stone Fixing Systems

### Quick & easy fixing to load bearing substrates

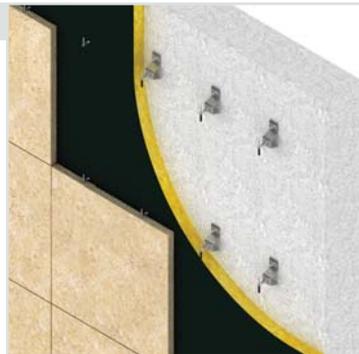
Natural stone façades are constructed using stainless steel stone anchoring systems. This system provides a secure and straight forward method for supporting stone panels on load-bearing backing walls.

These anchors are commonly used in the construction industry to fix stone panels to load-bearing walls using anchor bolts or mortar. They are versatile and can be used with various types of backing walls, including concrete, block work, masonry, and steel structures. In case of attachments to steel frames, set screws with nuts and washers are used for fixing. Three dimensional adjustability provides easy installation and enables precision positioning, accommodating cladding tolerances.

There are various types and sizes of stone fixing anchors available to suit different wall cavity depths, support the stone's dead weight, and withstand wind pressures. Choosing the right fixing system requires a careful analysis of the stone application to ensure safety and stability.

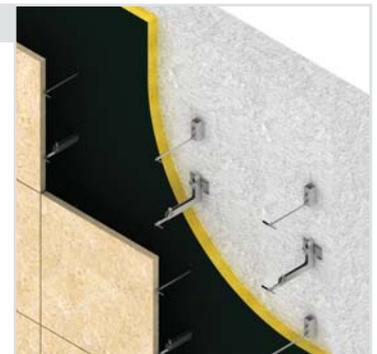


**HZ Z Anchors**



- Fixing to load bearing walls with anchor bolts
- Projection sizes up to 150 mm
- Recommended for loads up to 800N
- Installation at horizontal or vertical joints
- Three dimensional adjustability

**AXO Body Anchors**



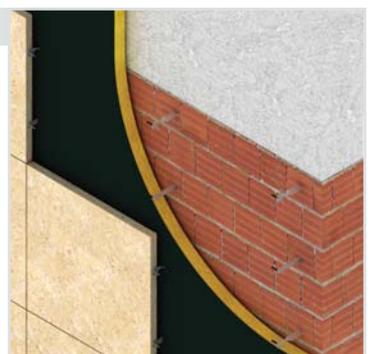
- Fixing to load bearing walls with anchor bolts
- Projection sizes up to 280 mm
- Recommended for loads up to 1300 N
- Installation at horizontal or vertical joints
- Optimum static performance
- Three dimensional adjustability

**HA L Anchors**



- Fixing to load bearing walls with anchor bolts
- Can be used for high stone thickness's
- Various types to enable adjustability
- Installation at horizontal joints only

**HDM Mortar Anchors**



- Fixing to walls with mortar
- Projection sizes up to 240 mm
- Recommended for loads up to 1200 N
- Installation at horizontal or vertical joints

## Sub channel framing systems

### Fully adjustable indirect attachment for cladding

Sub channel systems are an effective solution for attaching stone cladding to non-load bearing walls or wall structures with significant projections. These systems use specially designed channel supports and restraints to span channels between floor levels, creating a sub-frame that facilitates installation with set screws and lock nuts.

Sub channel systems allow for three-dimensional adjustments, ensuring precise alignment. This flexibility compensates for unevenness in the main structure and various wall projections, achieving perfect horizontal and vertical alignment. The channels are fixed to the main structure without stress, preventing potential damage or strain to the building. Fewer drilling points are needed, increasing the production rate. This reduces the frequency of wall penetrations, maintaining structural integrity and insulation properties.

By reducing cold bridging, sub channel systems help maintain the building's thermal insulation. Minimizing the number of penetration points through the walls helps prevent heat loss.

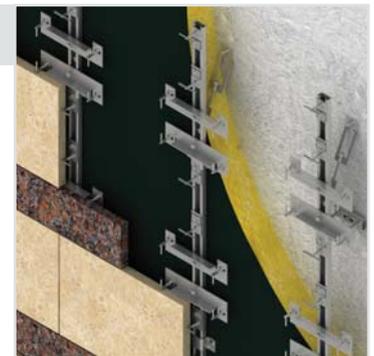


**HMPA-HC2**  
Sub Channel System



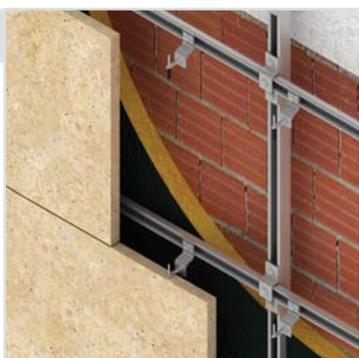
- Projection sizes up to 350 mm
- Ideal for heavy loads and large projections
- Installation in vertical and horizontal joints
- Adjustability in all directions, +/-30 mm
- Fixing to channels with set screw sets

**HMP-ATS**  
Sub Channel System



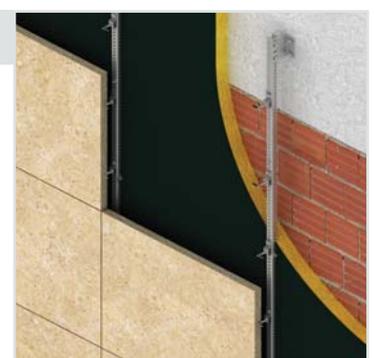
- Projection sizes up to 360 mm
- Ideal for varying projection & panel sizes
- Adjustability in all directions
- Fixing to channels with lock nut sets

**HMPC-HC1/H**  
Sub Channel System



- Projection sizes up to 300 mm
- Ideal for staggered patterned façades
- Quick adjustability at horizontal axis
- Installation at horizontal joints
- Fixing to channels with lock nut sets

**HMPA-HC3**  
Sub Channel System



- Projection sizes up to 250 mm
- Fast & easy, and economic
- Installation at horizontal and vertical joints
- Fixing to channels with set screw sets

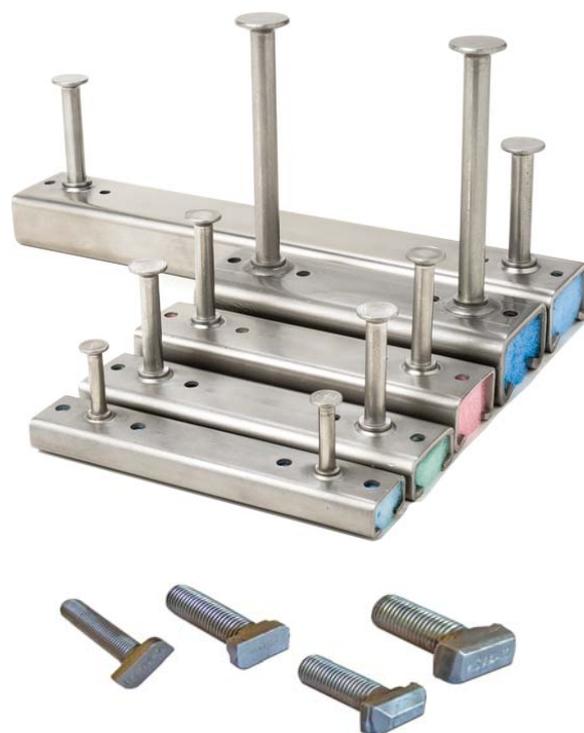
## Anchor channel systems

### Secure & strong connections to concrete

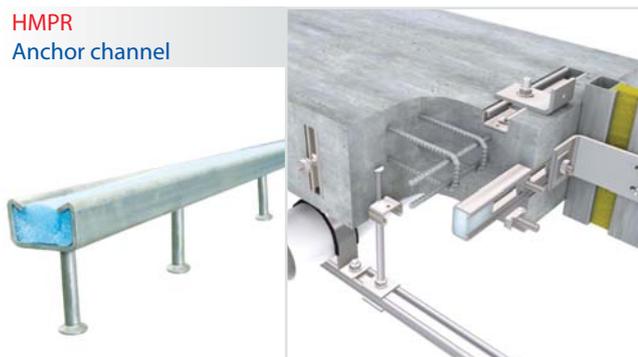
Anchor channels are robust rolled channels with pressed studs designed to be cast into concrete components and structures. This fixing system provides practical and secure attachments to concrete walls, slabs, beams, and columns, effectively transferring loads to the building's substrate.

Corresponding T head bolts and lock nuts are used to allow secure and easy connections on to the anchor channels. The use of this system is applicable in a wide range of construction works. Anchor channels are first secured to the form work at designated positions. Channels are provided with filler to avoid the concrete from entering inside the channel slot.

The filler is taken out after the concrete has dried and connections are made with corresponding T head bolts and lock nuts at desired positions. Three dimensional adjustability is achieved through flexible design. The use of anchor channels for connections offers great advantages. The safe and reliable attachments with easy and quick production times lead to faster completions of the construction works.



**HMPR**  
Anchor channel



- Easy & secure fixing to concrete structures
- High load capacities for static & dynamic loads
- Fixing is made with suitable T head bolts
- Resistance loads are verified by ETA certificates

**HAZ-TU**  
Anchor channel



- Fast fixing of profiled metal sheets
- Fixing is made with self drilling screws
- Load capacity of 5 kN at every 250 mm
- Resistance loads are verified by test certificates

**HMPR-SP**  
Anchor channel



- For fixing curtain wall panels
- Used for fixing on thin wall slabs
- Installation on top of slab
- Three dimensional adjustability

**HWT**  
Wall tie



- Used for restraining purposes
- Easy connections of prefabricated units
- Sizes available for up to 150 mm cavity
- Tensile loads of up to 12.0 kN

## Brickwork Fixing Systems

### Supports & restraint for brick & masonry walls

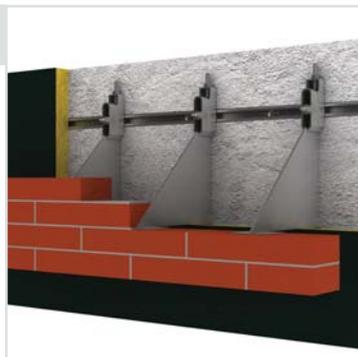
Brickwork support systems ensure the secure and efficient installation of masonry facades. Support brackets transfer the dead load of non-load-bearing masonry walls to load-bearing inner walls, while restraint brackets and wall ties stabilize the facade against wind loads.

Support brackets are attached to concrete beams designed to carry the facade's weight spanning up to maximum 3 floor heights. Key design considerations include insulation thickness, air gap, wall areas, joints, corners, lintels, and columns. Solutions such as precast lintels and prefabricated elements are available for these needs. The insulation and air gap thickness determine the required projection (K) of the support brackets, ranging from 130 to 350 mm for cavity sizes of 40 to 160 mm. For cavities under 40 mm, angle supports are recommended.

Standard brackets are designed to support loads ranging from 3.5 kN to 22 kN, with custom solutions available for higher load requirements. They are secured to concrete using anchor bolts or attached to cast-in channels with T-head bolts.



**FIX-U**  
Brickwork Support Bracket



- Adjustable and easy to install brackets
- Projection sizes up to 350 mm
- Load capacity of up to 12 kN
- Fixing to concrete with anchor bolts and anchor channels

**HMCS**  
Brickwork Continuous Support



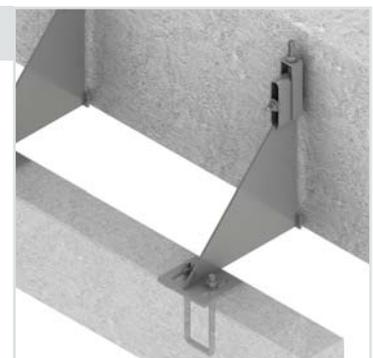
- Continuous masonry supports
- Projection sizes up to 230 mm
- Load capacity of up to 22.0 kN
- Fixing to concrete with anchor bolts and anchor channels

**HMS-AW**  
Restraint Channel



- Restraint channel for cladding on parapets
- Cavities of up to 145 mm
- Suitable for use with wall ties
- Quick and easy fixing

**FIX-S**  
Brickwork Support Bracket



- Installation of prefabricated units
- For use over window and door openings
- Load capacity of up to 10.5 kN
- Suitable for use with anchor channels and U inserts

## Concrete Panel Support Systems

### High Load capacity & optimized support system

PA2 Facade panel support system is specially designed for the secure and fast installation of prefabricated concrete panels on to load bearing structures. This system consists of support and restraining elements.

PA2 Panel brackets consist of upper section, centre section and special fitting which is cast in to the concrete panel. Depending on the load resistance and the fixing type to the structure, there are different types of an upper section. The standard upper section is fastened at the edge of the sub structure. The standard FIX-PA anchors can support loads of up to 85.8 kN. The PA2 system is ETA approved with certification no 21/0146 and calculations are made with a calculation software.

Facade Panels are restrained by using PA2 restraint system consisting of spacing bolts which is compatible with the PA2 brackets. The standard cavity sizes are up to 400 mm.

To complete the facade panel support system, HAZ offers the design and manufacture of PA2 Parapet brackets. These anchors are used for the safe and easy support of parapet finished components on to the supporting subframe.



**PA2**  
Panel Bracket



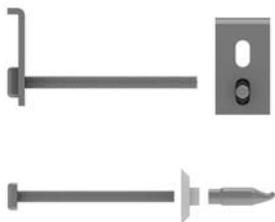
- Fully adjustable support system
- Load capacity up to 85.8 kN
- Available in various types to accommodate fixing method to structure

**PA2 Dowels**  
Top Fixing Dowels



- Available for loads up to 5 kN
- Suitable for cavities of up to 80 mm
- Supplied with plastic sleeves

**PA2**  
Restraint bolts



- Restraining bolts to accommodate the support anchors
- Up to 400 mm cavity sizes
- Supplied with ISO pressure plates
- Supplied with concrete inserts

**BRA**  
Parapet Bracket



- Custom designed to suit large range of parapet components
- Wall thickness of up to 200 mm
- Supplied with B500 grade re-bar

## Framing channel systems

### Flexible & fast steel framework assemblies

Framing channel systems, featuring channels and a variety of accessories, are ideal for constructing steel frameworks and installing secondary structures. These systems enable the creation of modular support structures quickly, efficiently, and cost-effectively.

Made from roll formed steel or stainless steel channels, framing systems are assembled using T-bolts and lock nuts, providing versatile solutions for secondary structure build up in construction. Components can be attached at any position along the channel's length, offering flexibility and ease of installation without the need for drilling or welding.

The use of framing systems significantly reduces installation time and costs. By eliminating on-site drilling and welding, these systems ensure a faster work flow and deliver superior quality finishes at lower costs.

Applications include pipe and duct installations, machinery set-ups, and mechanical and electrical installations. Framing systems streamline construction processes, offering safe, efficient, and high-quality solutions for a wide range of projects.



#### HMP C Channels



- Channels available with and without drilled holes
- A variety selection of channels to fit different loadings
- Toothed channels available for longitudinal loads

#### HMC Cantilever



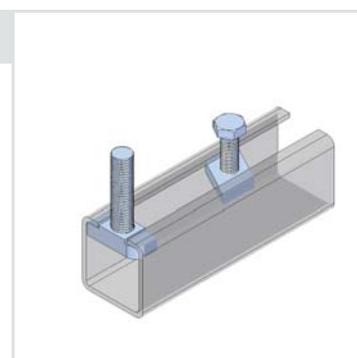
- Brackets available for projection sizes up to 700 mm
- Load capacities are verified according to different application types
- 41/41 & 36/36 C channels are used with corresponding T bolts & lock nuts

#### HC Channel Connectors



- Channel connections are available in a variety of shapes and sizes
- Suitable for use with channel types 41/41, 41/21 & 36/36

#### HTB & HMLN T bolts & lock nuts



- Suitable types and sizes to fit the framing channel range
- available in stainless steel and galvanized steel material grade

## Special Design & Fabrications

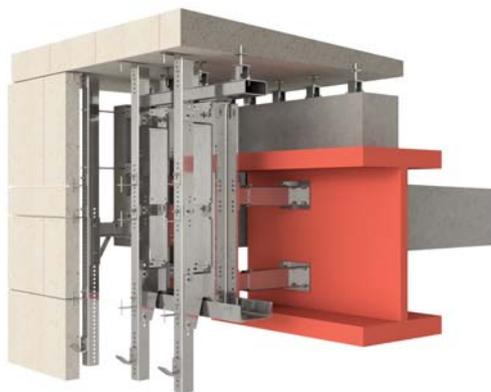
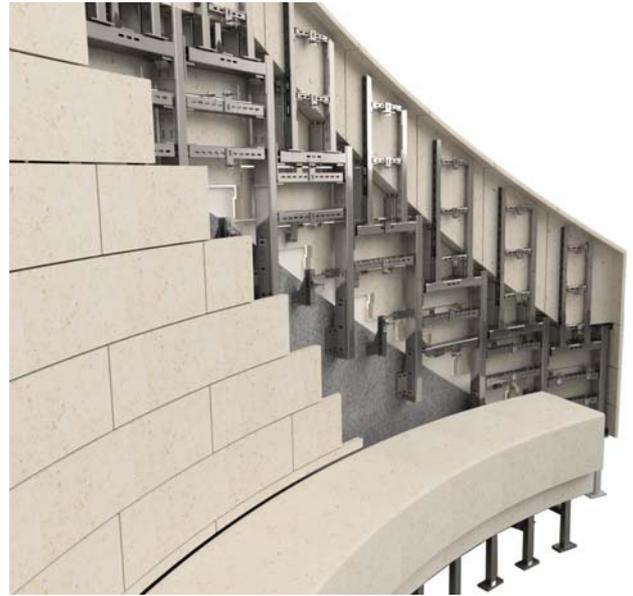
### Bespoke design tailored for project requirements

HAZ Metal specializes in the design and production of bespoke fixing systems and structural components for the construction industry. With a commitment to innovation and precision, we provide technical expertise at every stage, from tendering to project execution.

During the tender phase, our team collaborates closely with clients to propose flexible, cost-effective solutions tailored to project requirements. Equipped with advanced CAD software, we create detailed 3D visualizations and perform structural calculations using finite element analysis, ensuring designs meet the highest standards of integrity and performance.

With extensive experience in delivering customized fixing systems for major facade projects, HAZ Metal excels in analysing design concepts, structural demands, and manufacturing feasibility to realize even the most complex architectural visions.

Our dedicated design team works hand-in-hand with architects and consultants to bring project specifications to life, addressing challenges with innovative and economical solutions. As a trusted partner in facade construction, HAZ Metal remains at the forefront of creating high-quality systems that combine functionality, reliability, and aesthetics.



• Special steel construction attached on to a structural steel beam

• Sub channel system built around main structural steel column



• Supporting Sub framing built on to slab level



• Secondary steel structure for GRC panel installation

• Secondary steel structure around dome



• Unitized stone panel system

• Custom design for every aspect of facade constructions can be prepared and supplied to suit the architectural features of the project. HAZ Metal has comprehensive knowledge and experience in proposing the most efficient and economic method of fixing system.

# Anchor Bolts

## Reliable connections to substrates

Anchor bolts provide secure fastening for components to load-bearing substrates and are available in various types to suit different base materials. Whether the substrate is concrete, masonry, blockwork, or stone, the appropriate anchor bolt type is selected based on the material and the specific design requirements.

The selection process considers tensile and shear load directions to ensure optimal performance and safety. All expansion bolts undergo rigorous testing to meet tensile and shear force performance standards. Anchor bolts are available in a range of sizes, tailored to the design loads of each application, with load capacities verified by technical approvals obtained through in-house testing and certified laboratories.

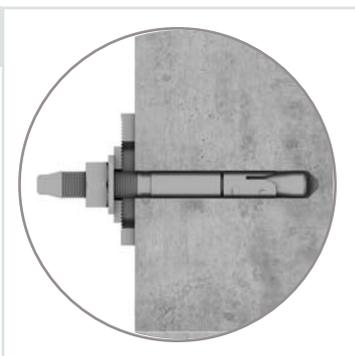
Main Categories of Anchor Bolts:

- Torque-Controlled Expansion Anchors
- Bonded Anchors
- Undercut Anchors
- Deformation-Controlled Expansion Anchors

Anchor bolts are manufactured in stainless steel, as well as galvanized mild steel, offering durability and resistance to varying environmental conditions.

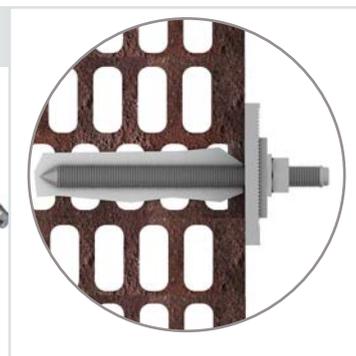


### Expansion bolts



- Torque controlled anchor bolts
- Available in from M6 to M16 sizes
- For use in concrete and filled and reinforced block work

### Chemical anchor bolts



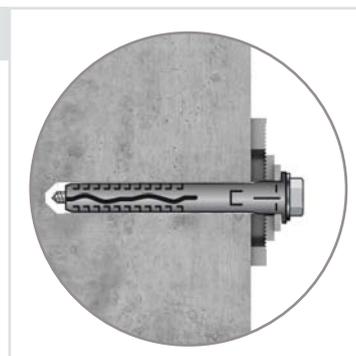
- Bonded anchor bolts
- Is used in combination with epoxy resin
- Available in sizes M8 to M20
- For use in concrete, block work and masonry walls

### Undercut anchor bolts



- Undercut anchor bolts
- Used for fixing on to natural stone
- Wet drilling system with suitable drilling equipment is required

### Wall plugs



- Deformation controlled anchor bolts
- Available in sizes M8 & M10
- For use in concrete, block work and masonry walls

# Anchor Bolts

## Fastening systems for substrates

HB Anchor bolts are used for fastening components on to load bearing substrates. There are many types of anchor bolts available for use for installing fixtures on to different types of base materials.

Anchor bolt type selection is made according to the type of walls, whether it is, concrete, masonry, block work, or stone. Design loads for tensile and shear load directions are taken into account in order for the correct selection of the anchor bolts.

Expansion bolts are all tested to meet the tensile force and shear force performance criteria. There are different anchor bolt sizes to meet the design loads of the application. Load capacities of the anchor bolts are verified by the testing made in house and at authorized testing laboratories.

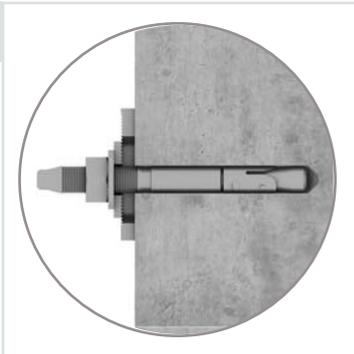
Below is the main categories of anchor bolts:

- Torque-Controlled Expansion Anchors
- Bonded Anchors
- Undercut Anchors
- Deformation-Controlled Expansion Anchors

Anchor bolts are available in stainless steel grade 1.4301 & 1.4401 and galvanized mild steel grade 1.0038.

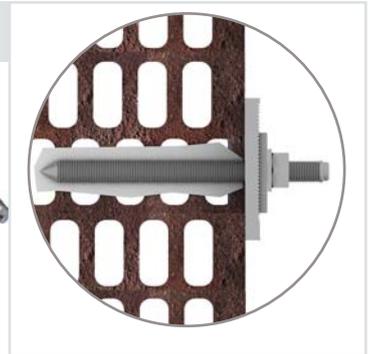


### Expansion bolts



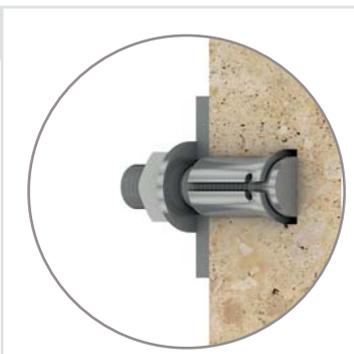
- Torque controlled anchor bolts
- Available in from M6 to M16 sizes
- For use in concrete and filled and reinforced block work

### Chemical anchor bolts



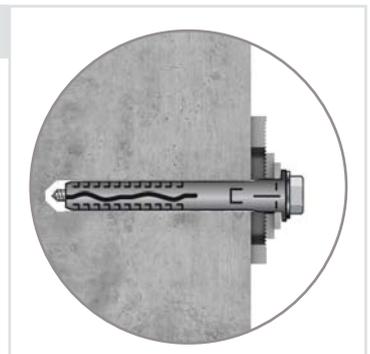
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### Undercut anchor bolts



- Undercut anchor bolts
- Used for fixing on to natural stone
- Wet drilling system with suitable drilling equipment is required

### Wall plugs



- Deformation controlled anchor bolts
- Available in sizes M8 & M10
- For use in concrete, block work and masonry walls

## Project references

### Stone facade cladding projects



Eschborn plaza  
Frankfurt, Germany



Hour glass  
Amsterdam, Holland



Kingdom Trade centre  
Riyadh, Saudi Arabia



Biblioteka Alexandrina  
Alexandria, Egypt



Chelsea barracks  
London, United Kingdom



Olive grove  
Istanbul, Turkey



Adnoc New Headquarters  
Abu Dhabi, U.A.E.



Museum of Islamic arts  
Doha, Qatar

### Brickwork facade cladding projects



Bosmos office flats  
Switzerland



MA Quartier  
Bremen, Germany



Shopping centre Kamp  
Lintfort, Germany



Marinet Residence Hotel  
Dubai, U.A.E.



Sabanci university  
Istanbul, Turkey



Peninsula Yangon  
Yoma Central, Myanmar



Vista dalla piazza  
Balzano, Italy



East cote arms residence  
London, United Kingdom

## Project references

### Curtain wall facade cladding projects



Infinity tower  
Brisbane, Australia



Adnoc new HQ  
Abu Dhabi, U.A.E.



Allianz Building  
Istanbul, Turkey



Ruby tower,  
Mumbai, India



Victoria square,  
Woking, United Kingdom



42 Trinity place  
New York, USA



Gewa Tower  
Fellbach, Germany



Sefton tower,  
Liverpool, United Kingdom



Hailun Centre  
Shanghai, China



Awly building  
Christchurch, New Zealand

### Concrete panel facade cladding projects



WIFI Technology Centre  
St Polten, Austria



Grose Bleichen  
Hamburg, Germany



Stadtgalerie, Weiden  
Weiden, Germany



Bergson,  
Laumer, Germany



Technical education institute  
Indolstadt, Germany



Schulcampus Benrodestraße  
Dusseldorf, Germany

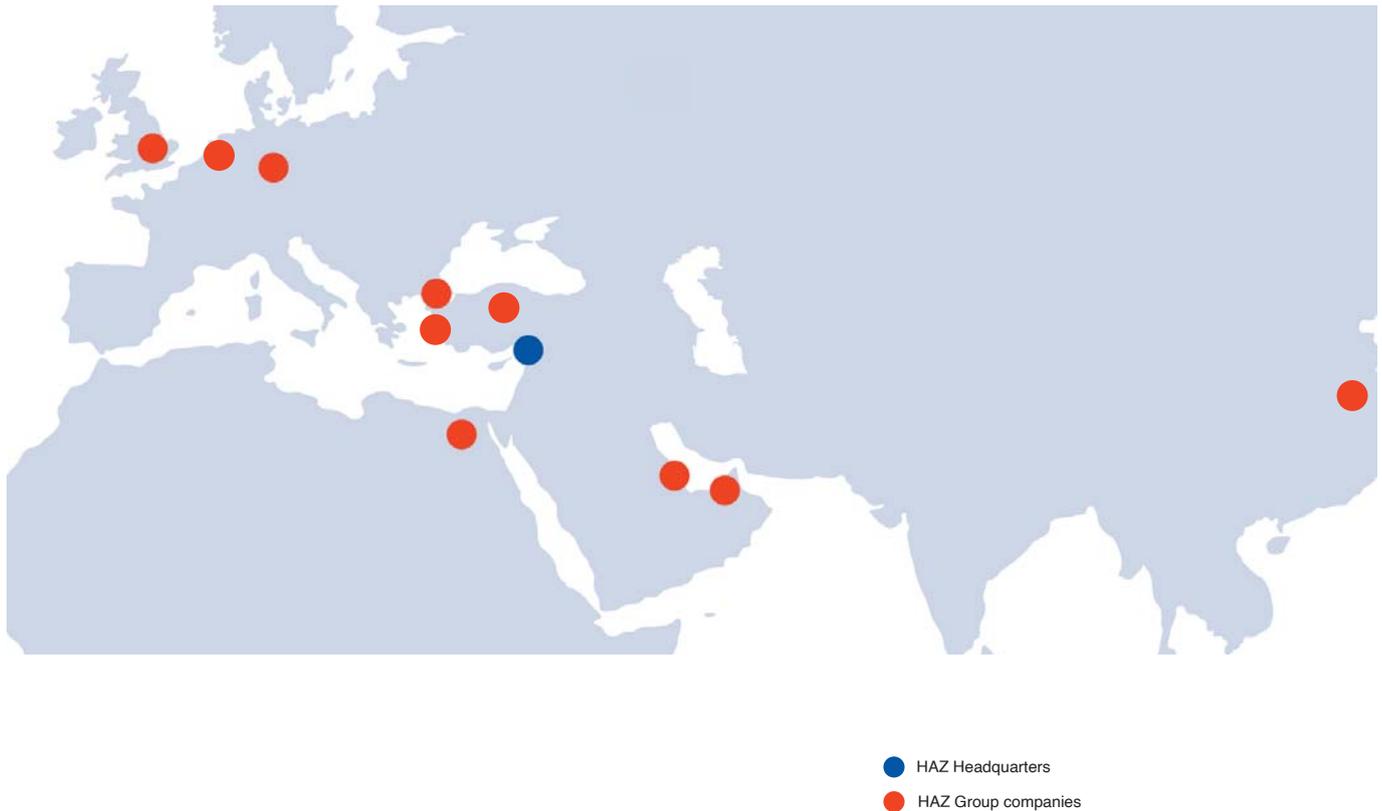


Udk Building  
Berlin, Germany



Brabrink residences  
Hannover, Germany

## HAZ Group of companies



HAZ Metal stands out in the building industry as a reliable supplier of custom-designed fixing systems for facade, concrete and Industrial applications.

Known for its high quality, reliability, and swift production capabilities the company offers excellent customer service. Aligning with international standards and customer expectations, the company prioritizes fast, flexible, and satisfactory service, including comprehensive technical support and rapid delivery.

Investment in new machinery and automation enhances its production versatility for any size projects, ensuring in-house operation efficiency.

Furthermore, partnerships with component suppliers augment its offerings with necessary fasteners and accessories.

Continuous investment in software and staff development, including regular training, underscores HAZ Metal's commitment to service excellence and customer satisfaction.

HAZ Metal has expanded its global reach to support its ambitions, establishing companies in strategic locations worldwide, demonstrating its international presence.

With dedicated employees across Turkey and branches in Germany, the UAE, the UK, Qatar, and Egypt, plus representatives in Europe, the Middle East and Asia, HAZ Metal effectively meets local client needs.

This expansive network enables HAZ Metal to work closely with their customers, offering technical services to subcontractors, construction companies, designers, and architects, ensuring the successful implementation of secure fixing systems for their projects.

The company prides itself on collaborative customer relationships, providing design support, structural calculations, and comprehensive engineering services from projects initial design stage up to completion.



Since its beginning in 1993, HAZ Metal has proved its reliability by successfully completing challenging projects. HAZ Metal has established a reputation for being a reliable supplier of structural components for facade construction.

Prestigious and large scale projects around the world have been supplied with high quality fixing systems designed and manufactured by HAZ Metal.

Always at the forefront of fixing technology, HAZ METAL has established a wide product portfolio to complement its fixing systems targeted for the specialist external wall cladding market. Designing and engineering high integrity and quality products for facade applications made HAZ a worldwide known brand in the construction industry.

HAZ METAL combines the very latest international technology with its own research and development team to establish a technical excellence within the industry. HAZ METAL readily embraces the responsibility of a major producer and shares its expertise with problem solving solutions.



*Your Fixing Systems Specialist*

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