BUILDING WITH PRECAST CONCRETE ELEMENTS:
HALFEN products and their applications

Solutions and possibilities for cost effective construction
ON THE SAFE SIDE:
When quality and performance make all the difference!

Building with precast elements has numerous benefits: starting with higher production quality through the controlled environment of a precast plant to the time saved at the construction site. Connection technology plays a fundamental role in creating these benefits. Whether in transit or during installation, inserts and anchoring must remain safe to handle and dependable. Just as important as reliable connections are, the reinforcement technology in the precast concrete elements are equally important.

We at HALFEN know the extent of our responsibility in the reinforcement and connection technology industry. We are aware that quality and performance are decisive. This not only involves the construction project itself but it is also about ensuring the safety of all personnel on the construction site as well as the future occupants of the building. We incorporate all this acquired knowledge into the further development of our products.

This brochure illustrates our product portfolio for the precast industry. The standard HALFEN Channel can be found here and also many more other advanced products, specially developed and designed for reinforcement and connection of prefabricated columns, walls, façades, balconies, stairs and panel elements. We provide practical solutions, from the tried and tested standard solutions to project-specific custom products. Our dedicated and highly skilled engineers are continually working to improve and further develop HALFEN products.

The following pages illustrate numerous areas of applications where our products can be used. Go for quality you can rely on. Quality “Made by HALFEN”.

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### HALFEN PRODUCTS AND THEIR APPLICATION

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AN INTRODUCTION TO OUR PORTFOLIO

for the precast industry.

The precast concrete building model shown below illustrates various examples of how HALFEN products can be used; from suspended concrete façade elements to the base connections in the columns. The HALFEN office building shows only some of the possible applications for our products: Whether for civil engineering or in commercial projects; HALFEN products provide the needed solution.
WHAT’S BEHIND THE CONCRETE:
Where to find HALFEN products!

Planning and building modern, large commercial and manufacturing buildings without prefa-
bricated concrete products is unimaginable. In the virtual production facility shown below,
several HALFEN products and their application are illustrated. These include reinforcement
connections, transport and lifting anchors, and panel connectors. HALFEN can also deliver
the right solution for connections to brickwork and to steel structures. This is only a fraction
of possible applications for our products. Contact HALFEN for more detailed information
about further areas of application.
Perfect anchorage with HALFEN: THE CONCRETE FAÇADE

Simple elegance and sophisticated shapes: concrete façades provide architects and planners with numerous opportunities. The FPA façades panel anchors provide quick and easy anchoring of façade panels in all applications. Used in combination with HALFEN restraint anchors such as LD dowel restraints and spacer bolts, the FPA façade panel anchors provide a reliable installation system for suspended concrete façades.

HALFEN FPA
Façade panel anchor

QUALITY CHARACTERISTICS:
› suitable for dead loads from 1,000 lbs - 12,500 lbs
› used with HALFEN LD, SPV or WDI/WDK restraint anchors to resist tension and compression loads
› adjustable in all directions
› simple and quick installation

HALFEN HFV and DS
Anchor pin and spacer bolt

QUALITY CHARACTERISTICS:
› available in various types
› HFV is available in two load ratings: 560 lbs and 1,100 lbs
› spacer bolt available in several lengths and diameters
Reliable fixings with the PARAPET CORBEL

The HALFEN Parapet corbel ensures quick and reliable installation when anchoring parapet elements to balconies or concrete slabs. The parapet corbel is fixed to a cast-in HALFEN Channel.

HALFEN BRA
Parapet corbel

The HALFEN Parapet corbel ensures quick and reliable installation when anchoring parapet elements to balconies or concrete slabs. The parapet corbel is fixed to a cast-in HALFEN Channel.

QUALITY CHARACTERISTICS:
› cost effective application with 8 different profile sizes
› suitable for different insulation thicknesses
› high corrosion protection with stainless steel
› quick installation – easily adjusted!

HALFEN HKZ
Restraint tie

The HKZ Restraint tie is used in combination with cast-in channels to securely fix precast elements. The restraint tie transfers tensile or compression loads.

QUALITY CHARACTERISTICS:
› efficient transfer of static loads through interlocking serration in bracket and counterplate
› three-dimensional adjustability if installed to HALFEN Cast-in channels
› galvanized or stainless steel

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Tried and tested economical system for CONNECTION TO BRICKWORK

HALFEN ML Brick ties are used for fixing brickwork, in-fill panels, partition walls or claddings to concrete walls or to precast columns. The HALFEN Brick ties are inserted into the channels at the recommended positions while brickwork is in progress. The ties are turned 90 degrees and pressed down into the mortar in the horizontal joint. The brick ties are able to slide vertically in the wall connector channels greatly reducing cracks in the brickwork.

HALFEN HMS
Brick tie channel

HALFEN ML
Brick ties

QUALITY CHARACTERISTICS:
› tried and tested fixing system
› cutouts in the anchors ensure optimal bond
› the brick ties are free to slide to avoid settlement cracks
› the wall channel foam filling reliably prevents concrete seepage
› corrosion protection: galvanized or stainless steel

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HALFEN VIDEOS ONLINE!
Go to www.halfenusa.com for further product videos.
Scan the QR Code to go directly to a video and see the Betojuster in use.
Connect and adjust with HALFEN products

EFFICIENT INSTALLATION OF WALLS

Optimal preparation is key for efficient installation of pre-cast walls. The quicker and more precisely walls can be connected together, or fixed to a column, the shorter the time required for on-site installation. This has a positive effect on the economic viability of a project. HALFEN provides you with the required tools to make this possible.

DEMU T-FIXX®
Sleeve anchor

T-FIXX® has various applications, such as the connection of balcony railings or steel ladders and stairs.

QUALITY CHARACTERISTICS:

 › optimized range of products in various lengths and diameters
 › especially suitable for close to edge fixings and in thin concrete elements
 › corrosion protection: galvanized or in stainless steel

HALFEN HLB
Loop Box

For efficient connection of prefabricated concrete elements; flexible wire loops in the case spring into the correct position when the cover is opened.

QUALITY CHARACTERISTICS:

 › sturdy steel case with pre-cut nail holes
 › allows for quick and efficient connection of precast panels
 › easily secured to wood or steel form work

DEMU T-FIXX® used to secure raking supports to precast element.
HALFEN HTA
The Original HALFEN Channel
HALFEN Channels form the foundation for adjustable connections between precast wall panels and columns. Used in combination with the other products in the HALFEN portfolio creates a highly adjustable and secure connection.

QUALITY CHARACTERISTICS:
› ideal basis for installation friendly fixings
› no damage to the main reinforcement
› ICC Approval (ESR 1008)
› optimal planning and reliable dimensioning with the HALFEN software

VERSATILE APPLICATION:
Find out more about the original HALFEN Channel, on our Website at: www.halfenusa.com
A solution for every condition
CONNECTION OF WALL PANELS

HALFEN has a connection to meet even the most difficult situation. Whether you are faced with thin slabs, near-edge conditions or required movement in the vertical direction; HALFEN has your back. The HALFEN Restraint Straps used in combination with our innovative anchor channel configurations can easily accommodate the thinnest of insulated panels.

HALFEN Restraint anchor

HALFEN Anchor Insulated Panels

QUALITY CHARACTERISTICS:
› tried and tested fixing system
› highly adjustable to accommodate construction tolerances
› allows vertical movement to avoid cracking

QUALITY CHARACTERISTICS:
› accommodates as thin as 2in panels
› corrosion protection: galvanized

HALFEN Restraint Strap used to secure a precast wall panel to embedded weld plate.
Quick installation is one of the decisive factors for the cost effectiveness of building with precast concrete products. Cost and time-efficient connections are what count, with quality you can depend on! For example: using the HVL-System in combination with a HALFEN HTA cast-in channel ensures sandwich elements are securely fixed to columns.

**QUALITY CHARACTERISTICS:**
- quick on-site installation
- precise adjustment
- all components are covered after final installation

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The innovation for dry, immediately loadable connections:
HEK – THE PRECAST ELEMENT CONNECTION

The HEK Precast element coupler was developed specifically for the requirements of the precast industry. This innovative system provides a dry, immediately loadable connection of precast elements in a matter of minutes: no delays caused by waiting for connection grout to dry. The two precast elements are simply and reliably bolted together. No special tools or other auxiliary methods are required. The appropriate anchor can be chosen depending on the component: HEK can be used in combination with DEMU T-FIXX®, DEMU Bolt anchor or DEMU Rod anchor. This provides numerous possible applications, whether in civil, residential or commercial projects.

QUALITY CHARACTERISTICS:
› solution for quick and cost efficient installation
› adjustable to account for inaccuracies during installation
› immediately loadable, dry connection of precast concrete elements
› universal use for numerous applications and connection situations
1. HBB bi-Trapez-Box
2. HTF Impact Sound Insulation element
3. HTPL Perimeter joint insulation
4. HTF-B Impact Sound Insulation element
5. HGB Handrail Connection
(see also page 24)
Impact Sound Insulation:
FOR QUIET STAIRS

Unwanted noise can significantly affect the quality of life in residential buildings or the level of performance in office buildings. The noise resulting from footfall in insufficiently insulated stairs is a particular problem. HALFEN HBB bi-Trapeze-box® and the HTF and HTT Impact sound insulation provide reliable solutions for this problem.

GENERAL QUALITY CHARACTERISTICS:
› good sound insulation properties over a wide range of bearing pressures
› General building test certificate for the bi-Trapez-bearing

HALFEN HTF
Impact Sound Insulation element

QUALITY CHARACTERISTICS:
› adaptable for all stair widths – element widths of 4in and 4-3/4in available: Customizable to any width, with additional insulation and load strips
› perforated markings allow elements to be quickly trimmed to required size

HALFEN HTPL
Perimeter joint insulation

HALFEN HTF-B
Impact Sound Insulation element

HALFEN HBB
bi-Trapez-Box®

QUALITY CHARACTERISTICS:
› max. versatility with variable heights
› easy and quick installation
› fire protection tested: 1-1/2HR

HALFEN HTT
Impact Sound Insulation element

QUALITY CHARACTERISTICS:
› for connections of precast stairs to in-situ concrete landings
› fire protection properties up to 2HR
› for stair widths: 4in to 8in
› available in three 3 different load ratings

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Secure connections and reinforcement:  
**COLUMNS IN AN INDUSTRIAL BUILDING**

Industrial buildings are usually constructed with precast concrete products because of the large heights, wide spans and short on-site installation time. Precast columns are typical components for industrial building construction. HALFEN provides proven innovative product solutions for the production and installation of precast columns.

**HALFEN HSC**  
Stud Connector

- **QUALITY CHARACTERISTICS:**
  - for tension reinforcement in corbels and frame nodes
  - 100% anchorage with forged anchor heads
  - time efficient installation and reliability with simple reinforcement layout

**HALFEN HUC**  
Universal Connection

- **QUALITY CHARACTERISTICS:**
  - HSC-B Steel connection for transfer of normal and shear loads and bending moments
  - easy installation with bolt connection: no welding required
  - higher durability with optional corrosion protection

**SYSTEM DESCRIPTION AND APPLICATION EXAMPLES**

Find out more about the HUC Universal connection. Simply scan the QR-Code and download the catalogue at www.halfenusa.com

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HALFEN HBT
Rebend connection

HBT Rebend connection for economical connection of precast elements is available in 57 possible combinations of stirrup types and profile widths. Or as standard types for most common applications.

QUALITY CHARACTERISTICS:
› in accordance with ACI-318
› sturdy steel case and steel lid keep its shape during concreting
› reduced casing height – ideal for precast concrete elements with minimal concrete cover
› standard lengths: 48in – shorter lengths available upon request

HALFEN HCC AND HAB
Column shoe and anchor bolts

Column shoes are cast into concrete columns at the precast factory. The columns are then erected, aligned and fixed with nuts to the on-site anchor bolts, which are previously cast into the concrete foundation slab. This ensures efficient installation and eliminates the need for auxiliary bracings.

QUALITY CHARACTERISTICS:
› optimal crane use: adjustment possible without using a crane
› damage free adjusting due to bolted connections
› minimal effort required
› adjustable up to 4in
Energy efficiency and fire protection: THE THERMAL INSULATED CONNECTION FOR BALCONIES AND SLABS

HALFEN HIT-MVX
Insulated element for cantilevered balconies

HIT-MVX was specially developed for use in precast elements. The new insulated connection with double-symmetric CSB bearings can be fitted irrespective of the slab or balcony orientation. This ensures maximum installation reliability.

HALFEN HGB
Handrail Connections

The HALFEN HGB Handrail Connection is the optimal solution for fixing all kinds of steel railings. Thanks to the cast-in channels the railings can be easily and quickly adjusted. HALFEN HGB is also suitable for fixing staircase banisters or crowd control railings in stadiums, and to fix temporary fall protection during construction.

QUALITY CHARACTERISTICS:

HALFEN HIT-MVX

› ICC Approval (ESR 3799)
› insulation thickness: 80 mm or 120 mm
› insulation material: non-flammable mineral wool
› fire resistance rating 2Hr
› reliable installation: double-symmetrical CSB bearings
› Robust construction: no damage during installation or during transport

HALFEN HGB

› Allows for more usable square footage on balcony
› no drilling, no welding
› simple adjustment of railing
› highest level of safety and bond strength with cast-in elements
› quick installation reduces construction time
HALFEN HIT-MVX OU/OD
Insulated connection for connecting to beams

HIT-MVX OU/OD achieves a reliable thermally insulated connection of slabs to beams or thin walls by using anchor heads instead of complex bent rebars. The anchor heads are characterized by the higher load capacity in relation to the very short anchorage length. A further benefit with using headed bolts: installation in the precast plant and the transport of the slabs is much easier because of the compact design.

QUALITY CHARACTERISTICS:
› extremely short anchorage
› high load capacity with compact dimensions
› ideal for offsets, thin walls or beams from 7in
› simple installation and shipping
› fire resistance rating 2Hr

DISCOVER THE HIT!
Supported or through slabs, parapets and corbels:
The HIT Insulated connection provides the right solution for every application
Further information can be found at www.halfenusa.com
HALFEN has a suitable lifting anchor system for any application: Whether for pipes, thin sandwich panels, slender columns, or for use at low temperatures. With our transport anchor systems you benefit from the highest quality materials, quality production and guaranteed product reliability.

**DEHA HD**
**Sleeve anchor**

**QUALITY CHARACTERISTICS:**
- load classes 1.3 - 25.0 Metric Tons
- light weight, yet robust lifting anchor
- especially suitable for thin walls
Ideal solution to Connect to Pre-Stressed Components

**HTA-V 41/22 – ELIMINATES POST INSTALLED ANCHORS**

The HALFEN HTA-V 41/22 anchor channels are designed to be used with prestressed components. The shape of the anchor allows the prestressed strands to run through the channel anchors. Ramps are strategically welded to the channel back to support the strand. The HTA-V anchor channels are installed in the bottom of the formwork and held into place during concreting by the tension imposed through the strand. This system is ideal to use on Double Tee beams or plain rectangular beams. Makes connections of utilities, conduit, equipment and fixtures an effortless task.

**HTA-V 41/22**

**QUALITY CHARACTERISTICS:**

- ultimate pullout capacity of 6 kips
- solution for quick and cost efficient installation
- adjustable to account for inaccuracies during installation
- eliminates post-installed anchors and damage to strands
- universal use for numerous applications and connection situations
HALFEN products in tunnel projects: INSTALLATION IN PRECAST TUNNEL SEGMENTS

HALFEN Channels are the ideal base for installation friendly and adjustable fixtures in tunnels. For example, anchor channels are used for fixing pipes, cable ducts, or signalling equipment to the precast elements in tunnels. The HTA-CS HALFEN Curved channels can be used in concrete pipes, for utility shafts, curved walls, and sewage treatment plants.

HALFEN HTA-CS Curved Solution

QUALITY CHARACTERISTICS:
› Ideal for easy installation and adjustable anchoring in tunnels
› corrosion protection: stainless steel

HALFEN HFK Fixing cone

QUALITY CHARACTERISTICS:
› For simple, quick and adjustable fixing of anchor channels to steel form work
› Fixing and removal only from the top of the formwork

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Beams, and girders
WHEN SHEAR LOADS PREVAIL

Beams and girders distribute and absorb shear forces. HALFEN also provides practical solutions here: HTU fixing channel for fixing corrugated metal sheeting to concrete beams or girders. HTU channels are cast into roof trusses or columns and the corrugated panels are secured with self-drilling or setting screws to the HTU channel.

HALFEN HTU
Fixing channel

QUALITY CHARACTERISTICS:
› simple installation, cost effective assembly
› no damage to the concrete
› loads resisted in all directions – 1 kip/ft to 3.2 kip/ft
› hot dip galvanized or stainless steel
HALFEN HSD
Shear Dowel System

HALFEN HSD shear dowels transfer shear loads in connection joints and prevent irregular settlement or offsets in connection joints. Depending on the type of system they allow longitudinal movement or both lateral and longitudinal movement. The HALFEN HSD shear dowel is suitable for extremely large shear loads.

HALFEN HSD-ULTRA
Shear Dowel

QUALITY CHARACTERISTICS:
› time efficient due to simplified formwork and installation
› Transfers high loads through concrete joints – up to 115 kips
› high level of corrosion protection – stainless steel
› Allows horizontal and longitudinal movement

Fixed to the support surface of a column

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When it comes to product solutions for construction projects, you need products that are dependable, products you can rely on. That’s why for decades professionals have chosen HALFEN. Our products, made from high quality materials in our regularly monitored factories, are the result of continuous optimization and development. During this process we generate a wide spectrum of product solutions for your construction projects.

Go for quality you can depend on: Quality “MADE BY HALFEN“.

**HTA** – The intelligent alternative to drilling and welding - for almost of any type of connection!

**HALFIX** – Variable positioning system for quick adaptation to new requirements.

**HK5** – The latest generation of brickwork support brackets.

**HLX** – The Lift-Box: installation aid for elevator construction and maintenance work in shafts.
**CONCRETE TECHNOLOGY**

**FIXING SYSTEMS**
- HALFEN Cast-in Channels: HTA, HZA
- Balustrade fixings: HGB
- Profiled sheets fixing channels: HTU
- Corner guards: HKW
- DEMU Fixing anchors: T-FIXX®, Bolt anchor
- Lift-Box: HLX
- Chemical anchor bolt systems
- Mechanical heavy duty anchor systems

**REINFORCEMENT SYSTEMS**
- Physical structural products
  - Balcony connection: HIT
  - Impact sound insulation units: HBB, HTT, HTF, HTPL
- Reinforcement connections
  - Screw connections: HBS-05
  - Universal connection: HUC
  - Stud Connector: HSC
  - Reinforcement coupler: MBT
  - Precast Coupler: HEK
  - Loop Box: HLB
  - Rebend connections: HBT
- Reinforcement technology
  - Anchor rail: HDB
  - Column shoe: HCC, HAB
  - Betojuster: HBJ
  - Shear dowel: HSD

**LIFTING SYSTEMS**
- Quick coupling systems
  - DEHA Spherical head lifting system: KKT
  - FRIMEDA Lifting anchor system: TPA
- Threaded lifting systems
  - HD Anchor: HD
  - Fixing anchors: HA

**VERSATILE BOLT CONNECTIONS AND FRAME CONSTRUCTION**
- Framing channels: HM, HL, HZM, HZL
- Connecting parts: HVT
- Powerclick system HCS
- Cantilevers: KON
- Pipe clamps: HRS
- Pipe supports: HRG, HCS
- Pipe base: RUK
- Lift-off safety device: AHS

**BOLTS AND ACCESSORIES**
- HALFEN Bolts: HS, HSR, HZS
- Threaded plates: GWP
- Timber anchor: HNA, HSF

**POWERCLICK FRAMING SYSTEM HCS**
- System 63
- System 41 + 22

**VERSATILE FIXING SYSTEM**
- HALFIX: HFX

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**FAÇADE TECHNOLOGY**

**SUSPENDED CONCRETE FAÇADES**
- Precast panel anchors: FPA
- Horizontal anchors: DS, HKZ, ULZ, SPV, HVL, WDK, WDI, HFV
- Adjustable restraint: LD
- Parapet corbels: BRA
- Top fixing dowels: WPA

**CONCRETE-SANDWICH FAÇADE**
- Sandwich panel anchors: SP-SPA
- Sleeve sandwich panel anchors: SP-MVA
- Flat anchors: SP-FA

**BRICKWORK SUPPORT SYSTEMS**
- Brickwork support: HK5, KM
- Brackets: HW, KW, KWL
- Ties for precast lintel: HK5-S, FSW, HSL
- Cavity wall ties: LSA, HEA, HPV
- Scaffold anchor: HGA
- Wall ties: ML, BL

**NATURAL STONE FAÇADE**
- Body anchor: HRM, HRC, DT, BA, DH
- Grout-in anchors: UMA, UHA
- Sub-structure systems: SUK, UKB

**ROD SYSTEMS**
- DETAN Rod system: S-460
- DETAN Rod system stainless steel
- DETAN Compression rod system
WE ENGINEER ...

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We are here to help!

Our professional engineers provide support throughout the design and construction phases.

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Catalogs, installation instructions, and more information is available at www.halfenusa.com

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... AND BACK YOU UP!

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From placing your order to cutting the ribbon – we are there for you.