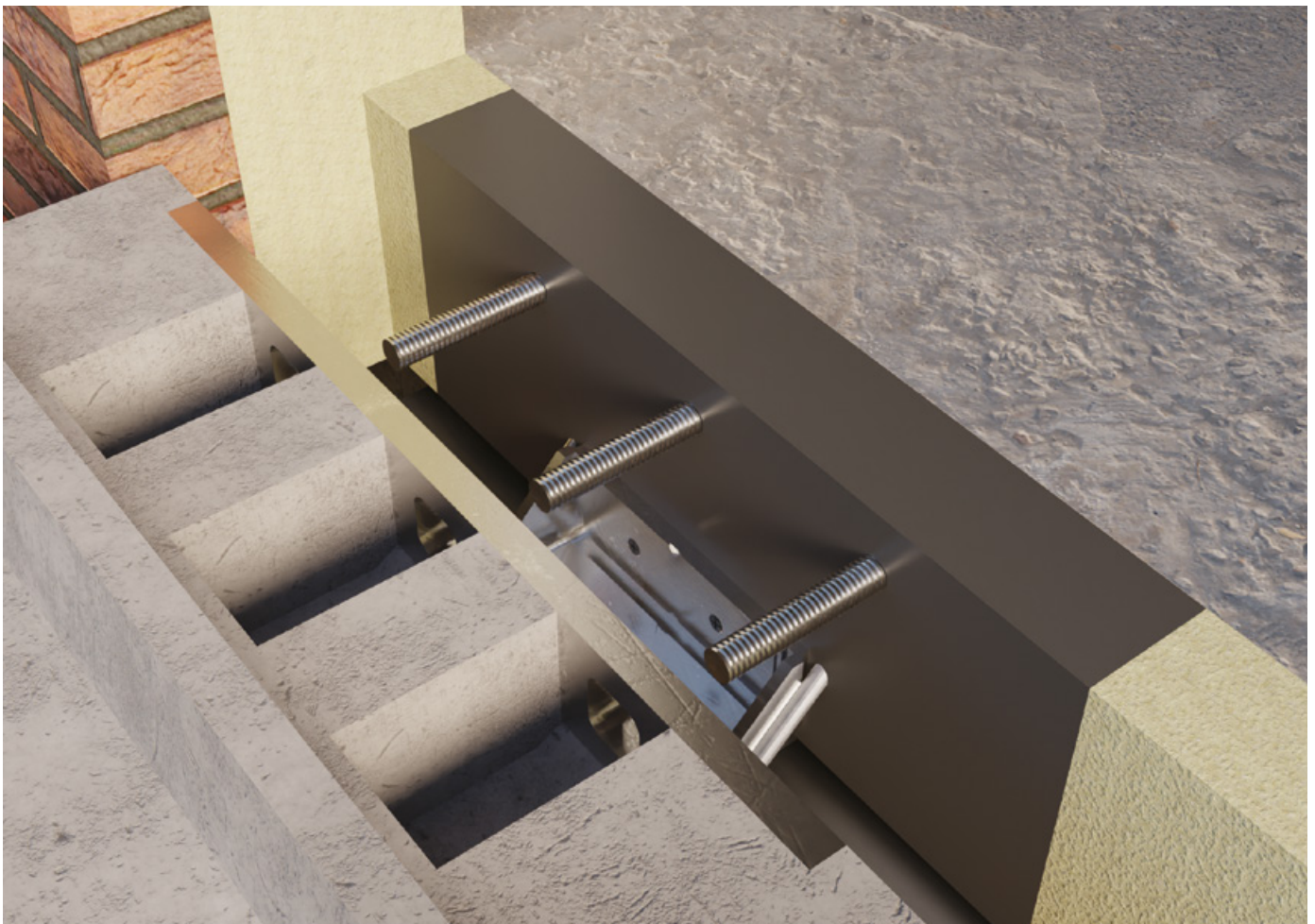


Structural Connections  
Insulated balcony connectors

**Leviat**<sup>®</sup>  
A CRH COMPANY

## Halfen HIT-PI

For Post-Installed Balconies



Call, Pick, Connect and Go

- **Call**  
the precast company – bring the balconies when it best suits
- **Pick**  
the balconies from the truck – bring them to the right location
- **Connect**  
the balconies to the main slab, using only a few nuts and counterplates
- **Go**  
to the next balcony and repeat the same operations

Imagine. Model. Make.

# Halfen HIT-PI – The new concept of dry connection for precast balconies

## Two fixing possibilities

Time and efficiency have become key features in bringing solutions on building sites. This is the reason why precast companies are so successful nowadays.

Taking this market trend as a base for its developments, Leviat, the partner of precast companies and building contractors, has designed a new way to fix precast balconies quickly and easily to a building frame, while keeping thermal insulation as key parameter.

Halfen HIT-PI brings more flexibility to the building process. Balconies can be connected to the structure when it best suits the building contractor. No need for storage space on site, and a reduced risk of damage to the balconies.

Halfen HIT-PI structural thermal breaks are divided in two sets of parts:

1. Balcony inserts are delivered to the precast company.
2. Elements for the main slab are delivered to the building site. A reusable installation aid is also available and is highly recommended to enable easy and fast installation.

A new adjustment concept enables the contractor to connect both parts on site within a few minutes.



### Two fixing possibilities:

#### Fixing from the balcony side (BC HIT-HP PI-B)



For fixing from the balcony side, recesses are formed in the balcony, allowing for connection from outside the building.

In some cases the facade can also be installed before connecting the balconies.



#### Halfen HIT PI-B video

Scan the QR-code and watch video for more information.

#### Fixing from the floor slab side (BC HIT-HP PI-F)



For fixing from the floor slab side, recesses are formed in the floor slab itself.

Threaded bars protruding from the balcony are driven through the supporting element into the recesses, where connections will be made.



#### Halfen HIT PI-F video

Scan the QR-code and watch the video for more information.



# Halfen HIT-PI – The new concept of dry connection for precast balconies



## Advantages

### Advantages of Halfen HIT-PI connections:

- **Dry connection.** Zero curing time. This significant advantage eliminates the need for temporary supports. Balconies can be lifted from the truck and installed within minutes, while suspended by the crane. Moreover, the system ensures immediate load bearing capacity and allows precise and instantaneous balcony deflection compensation during installation.
- **Modular and standardized concept.** A wide range of standard connection modules is available, covering a broad range of loads and ensuring versatility and ease of integration.
- **Fast, easy and safe installation.** Balconies are supported by stainless steel brackets, ensuring safety during installation. These load bearing brackets are concealed during later construction stages.
- **High adjustment possibilities.** Essential for a trouble-free installation, the system has extensive adjustment capabilities:
  - An easy and safe shimming concept enables tolerance compensation in all three directions, for a precise and secure installation.
  - A proprietary reusable installation aid is available, guaranteeing accuracy and efficiency.
- **Thermal efficiency.** The use of individual connectors means that surface contact with the inner structure is limited, ensuring optimal thermal efficiency across the whole width of the balcony.
- **High load capacity.** Small-to-medium size, as well as large balconies, can be supported with HIT-PI connectors, providing exceptional load bearing capacities.
- **Sustainability and efficiency.** Made from durable polyurethane, the recess formers can be reused multiple times, reducing environmental impact, and minimizing stripping time.



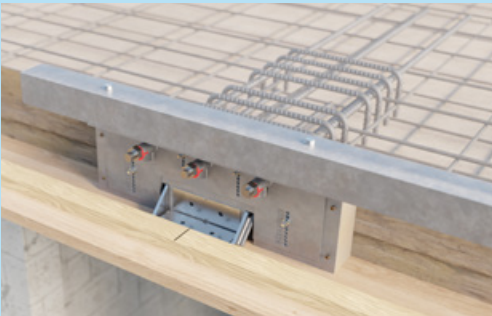
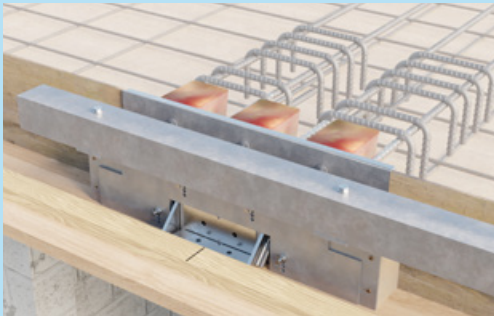

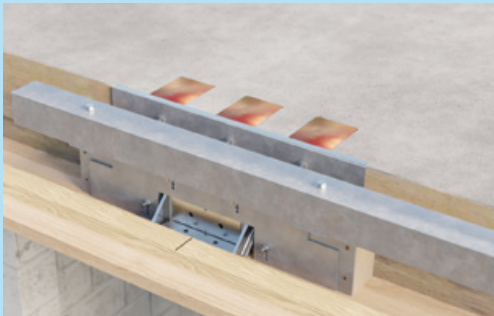



# Halfen HIT-PI – The new concept of dry connection for precast balconies

## Installation aid



Manufactured from corrosion-resistant stainless steel, the proprietary installation aid is lightweight and reusable. It ensures that every component is correctly positioned in its designated location and guarantees a seamless assembly process. With its innovative design, it simplifies the adjustment of the HIT-PI connection modules and allows for precise alignment between each element.

- Equipped with interchangeable inserts, it can be used with several bar diameters
- Its adaptability to the required connection height provides seamless integration in each construction project.

Connection from the balcony side Halfen HIT-HP PI-B	Connection from the floor slab side Halfen HIT-HP PI-F
	
	
	
<p data-bbox="193 1789 555 1845"><b>Halfen HIT PI-B</b> <b>Fixing from the balcony side</b></p> <p data-bbox="193 1859 533 1906">Scan the QR-code and watch the video for more information.</p> 	<p data-bbox="869 1789 1232 1845"><b>Halfen HIT PI-F</b> <b>Fixing from the floor slab side</b></p> <p data-bbox="869 1859 1209 1906">Scan the QR-code and watch the video for more information.</p> 