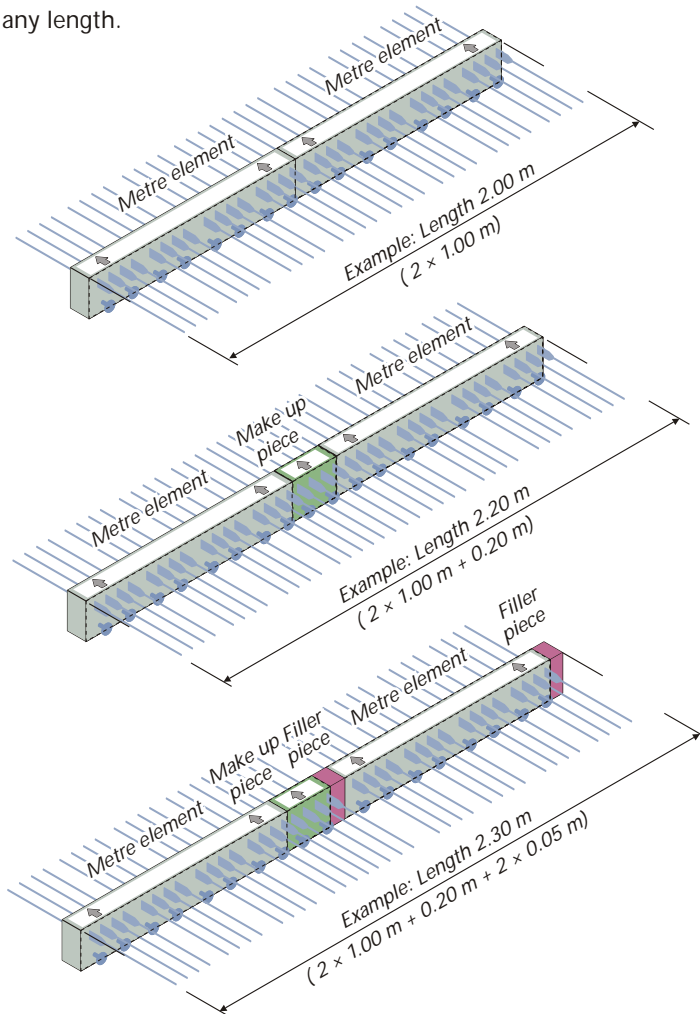


HALFEN-ISO-ELEMENT TYPE HIT

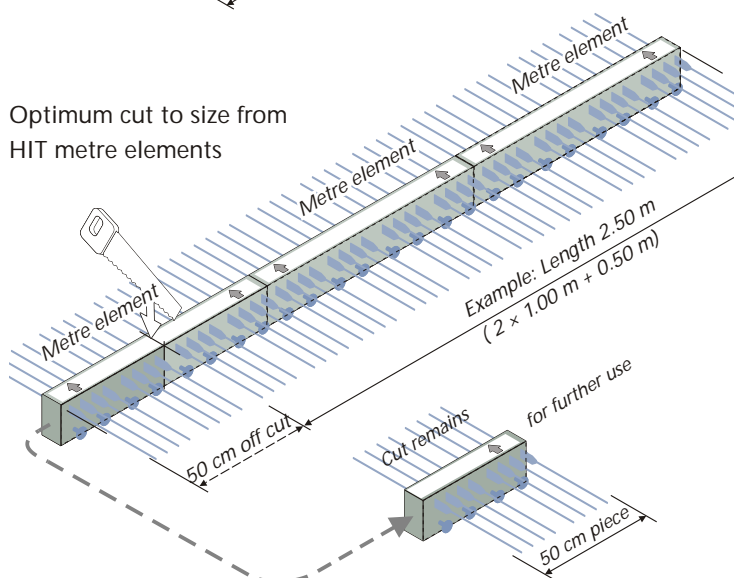
Cut lengths & modular pieces

Modular lengths and optimum cut to size

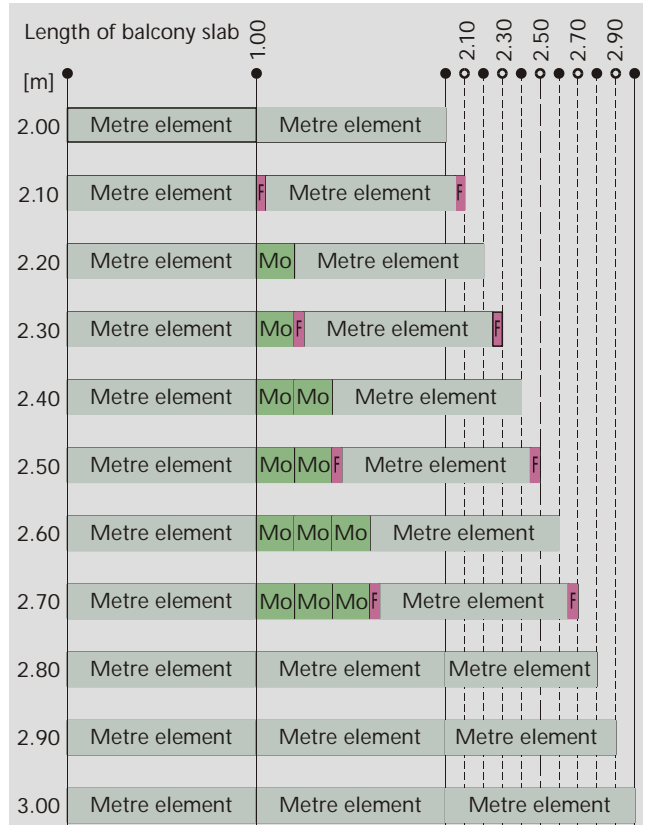
Standard metre elements, 200 mm make up pieces and 50mm filler pieces can be combined to form any length.



Optimum cut to size from HIT metre elements



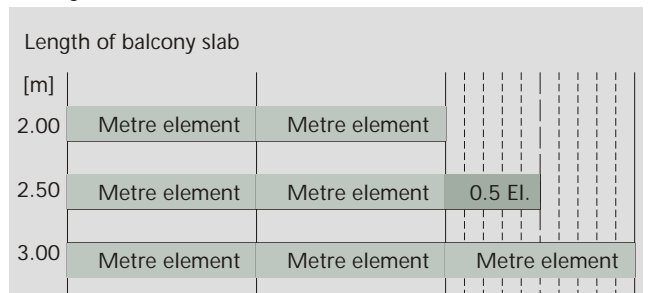
- Diagram showing the balcony length achieved using metre elements, make up pieces and filler pieces



Care should be taken when using filler pieces because this reduces the capacity of the HIT connection.

Mo = HIT makeup pieces (200 mm) **F** = Filler, length 50 mm or less
 Types HIT-. . -MOD, HIT-. . -MOD-F90 Types HIT-FK-5, HIT-FK-5-F90

- Diagram showing the balcony length achieved using metre units and site cuts.



Note: Contact Halfen for advice on the arrangement of cut elements

- ① To be checked in accordance with official approv. certificate:
- max spacing of reinforcement bars: 300 mm;
 - min./max. distance of reinforcement from edge or movement joint: 50 mm/150 mm.

HALFEN-ISO-ELEMENT TYPE HIT

Basic handling and installation

Basic handling and installation

The advantage of the **lap length** of HIT tension bars:

- 1.29 m for load range 10/7 - 12/10, bar- Ø 8
- 1.48 m for load range 12/12 - 14/12, bar- Ø 10



You have the choice for the lap joint :

Single layer lap joint

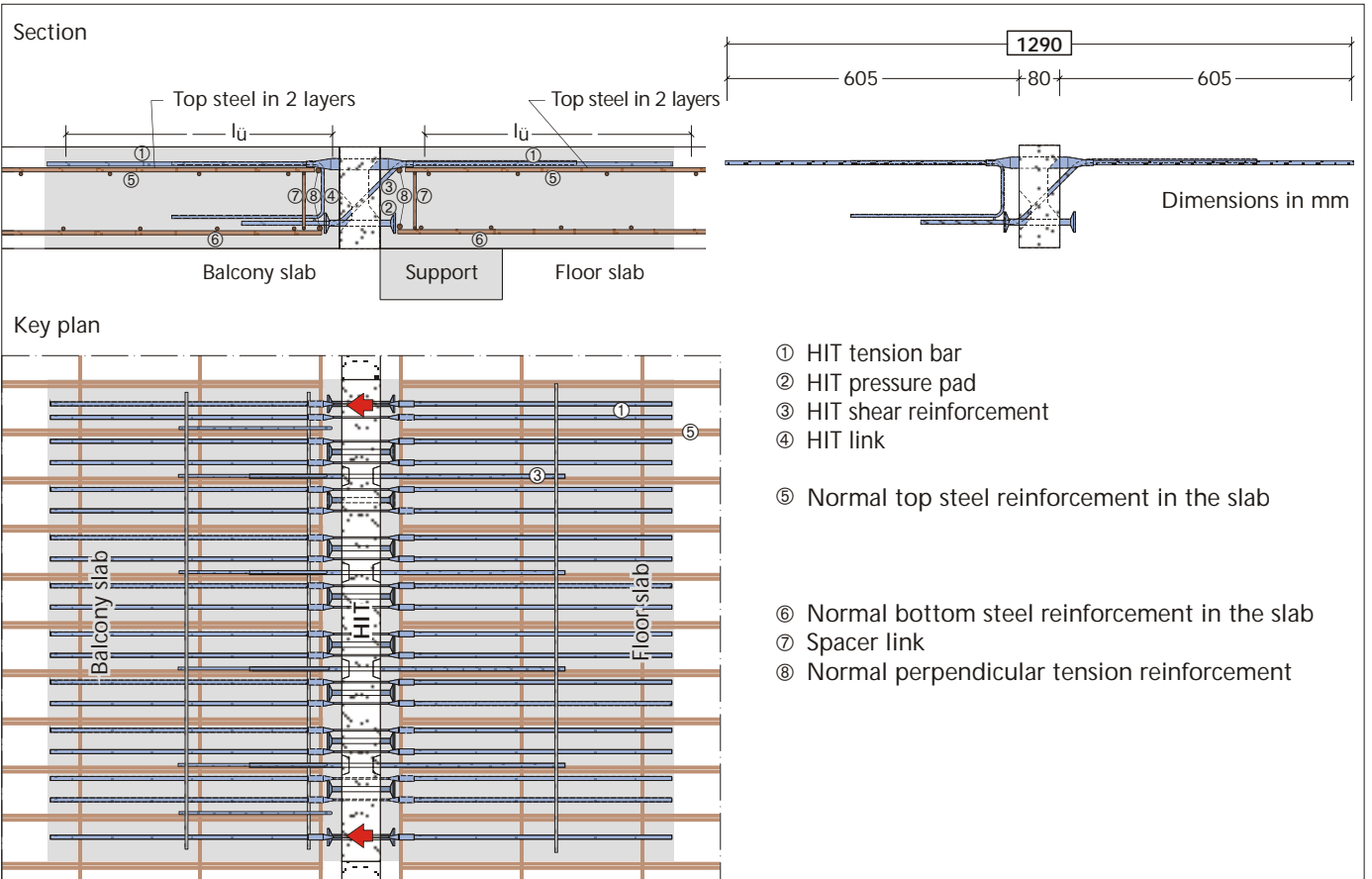
Two layer lap joint



Single layer:
HIT top steel ① and normal top steel ⑤ in one plane.

Two layer design:
HIT top steel ① and normal top steel ⑤ in two separate layers.
Note: HIT reinforcement can be below the main slab reinforcement if the connection detail permits and can be easier to lay the correct top steel before installing the HIT system.

Example:
Halfen-Iso-Element Type HIT-BX-12/10



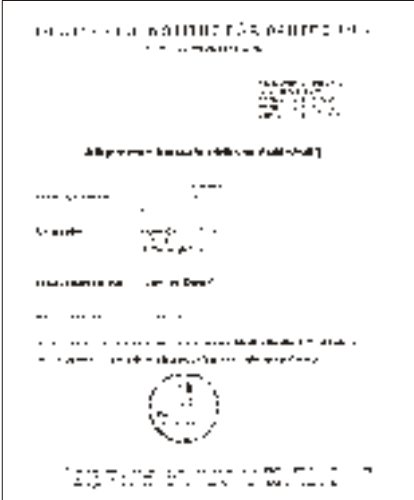
HALFEN - ISO - ELEMENT TYPE HIT

Materials and certificates

Materials

Concrete:	Minimum strength B25
Halfen-Iso-Element Type HIT:	
- Tension bars:	Welded stainless steel tube material codes W 1.4401, W 1.4404, W 1.4571, strength class S 355 according to official approval certificate no. Z-30.3-6, swaged with reinforcement steel bar BSt 500 S according to DIN 488
- Pressure pad:	Stainless steel material codes W 1.4404, W 1.4571 according to official approval certificate no. Z-30.3-6
- Shear bars:	Stainless steel reinforcement bar BSt 500 NR
- End stirrups:	Reinforcement bar BSt 500
- Assembly bars:	Reinforcement bar BSt 500
- Thermal insulation:	Polystyrene foam
- Fire protection panels (for fireproof version F 90)	Panel class A1 (not inflammable)

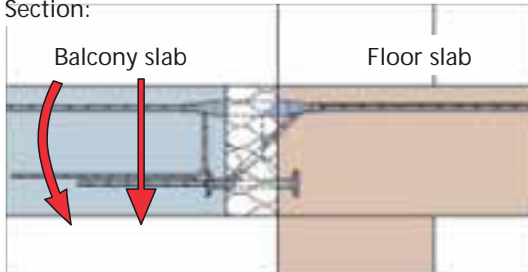
Certificates

• Official approval certificate	DIBt Berlin, approval certif. Z-15.7-171	
• Type testing Halfen-Iso-Element types	Landesgewerbeamt Baden-Württemberg	
- HIT-BX and HIT-BF	- Test report no. 02.10	
- HIT-BQ and HIT-±BQ	- Test report no. 02.11	
- HIT-BD	- Test report no. 02.12	
- HIT-BX-/BF-20cm-units	- Test report no. 02.13	
• Fire protection experts report	MPA Braunschweig Az 3923/6110 and Az 3716/4921	

HALFEN - ISO - ELEMENT TYPE HIT

Product overview

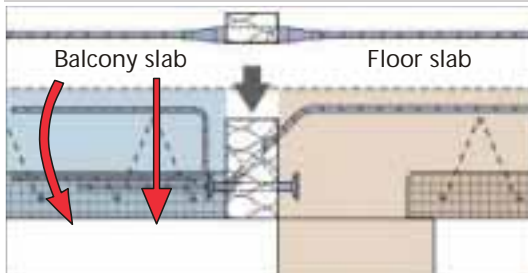
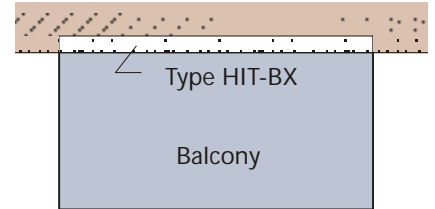
Section:



Type HIT-BX

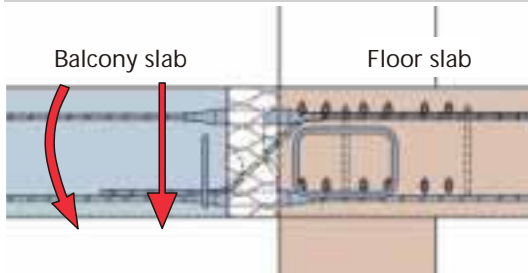
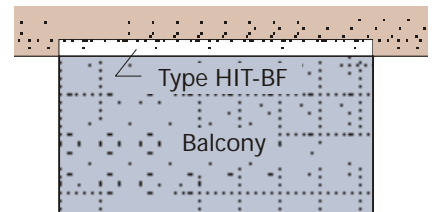
Cantilever balcony system for reinforced concrete taking moment and shear.
→ see page 12.

Key plan:



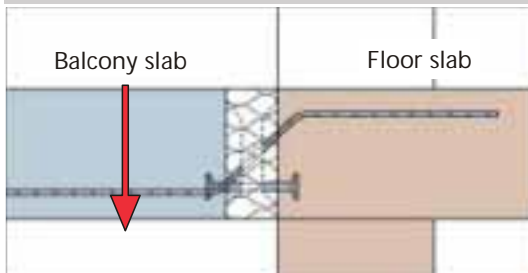
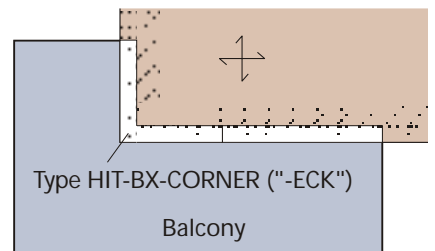
Type HIT-BF

Cantilever balcony system for precast planks taking moment and shear.
→ see page 14.



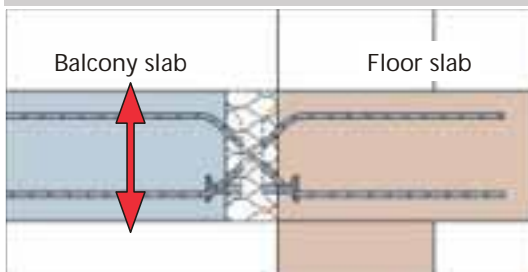
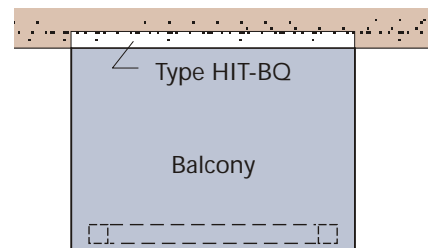
Type HIT-BX-CORNERPIECE

Cantilever balcony system for reinforced concrete for corners.
→ see page 16.



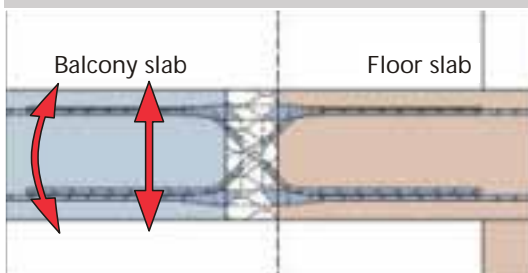
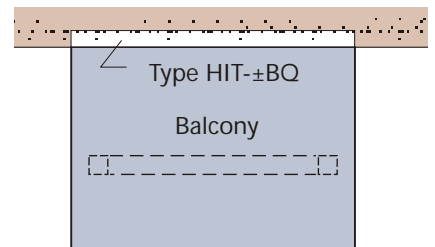
Type HIT-BQ

Propped cantilever balcony system for reinforced concrete taking shear in one direction.
→ see page 18-21.



Type HIT-±BQ

Propped cantilever balcony system for reinforced concrete taking shear in both directions (positive and negative).
→ see page 22.



Type HIT-BD

Internal balcony system for reinforced concrete taking moment and shear in both direction (positive and negative).
→ see page 24.

