

**NEW**

**HALFEN HIT Insulated connections**

**MORE FLEXIBILITY IN PLANNING AND EXECUTION**



**HALFEN**

*YOUR BEST CONNECTIONS*

# LARGER EXPANSION JOINT SPACINGS WITH THE HIT



Project: easyCredit-Haus, Nuremberg, Germany

## ► A BETTER APPROVAL!

Following the German Institute for Building Technology's (DIBt) amendment to the general building approval

Z-15.7-293 in November 2016, the approvals Z-15.7-312 and Z-15.7-309 for simply supported balconies and loggias were updated in February 2017.

Therefore, significantly larger spacings between required expansion joints are now possible for all balconies and parapets.

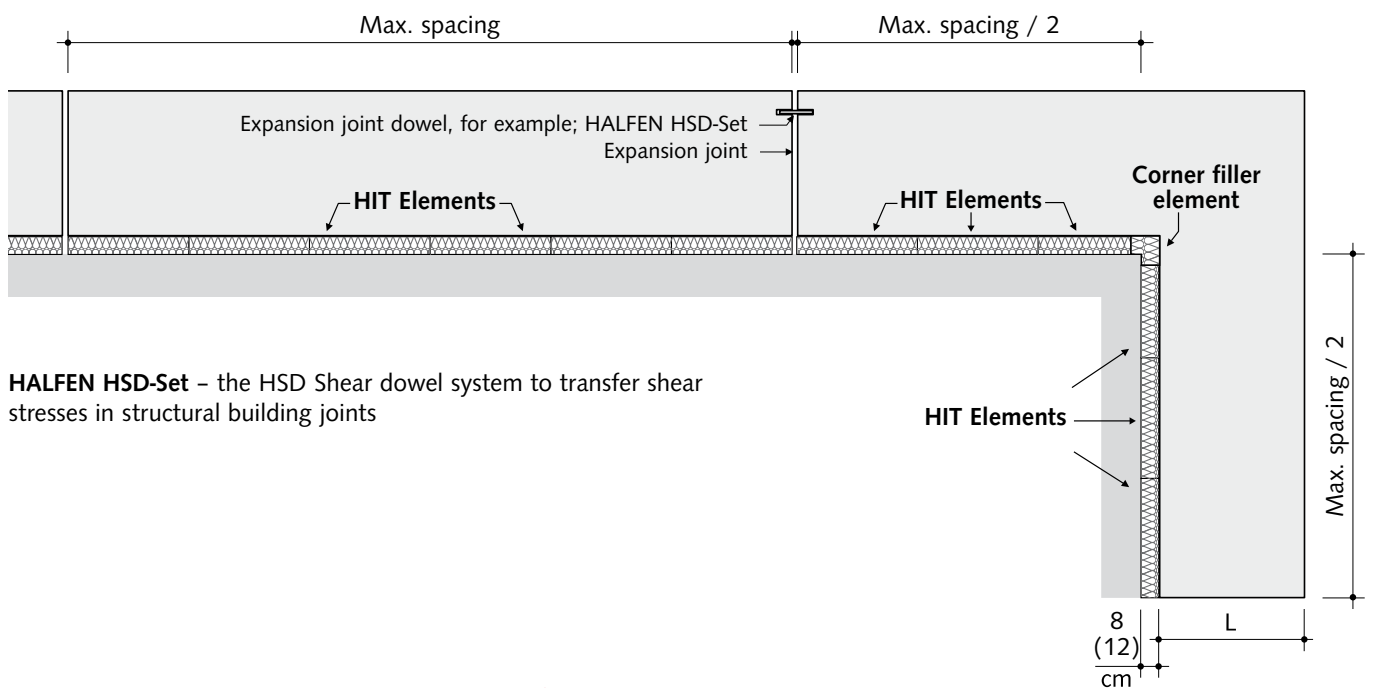
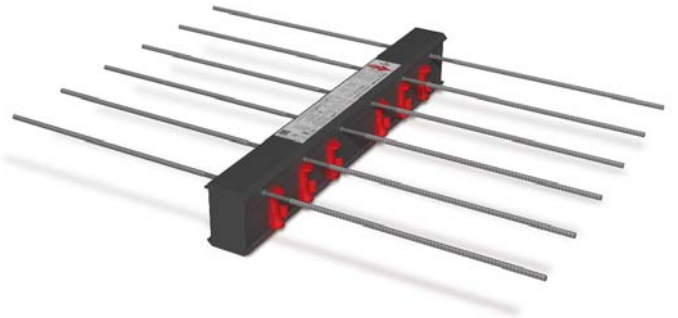
## ► TO PUT IT SIMPLE

The maximum allowable spacing for expansion joints depends on the diameter of the rebar in the joint; see the table below.

Application	HALFEN HIT Type	Decisive rebar diameter	Max. expansion joint spacing [m]	
			HP (80 mm)	SP (120 mm)
Cantilevered balconies	MVX	Ø 10.5 mm	12.6 m	21.2 m
Cantilevered balconies	MVX-COR	Ø 10.5 mm		
Offset cantilevered balconies	MVX-OD/OU	Ø 10.5 mm		
Simply supported balconies	ZVX-...-06	Ø 6 mm	13.5 m	23.0 m
	ZVX-...-08	Ø 8 mm		
	ZVX-...-10	Ø 10 mm	13.0 m	21.7 m
	ZVX-...-12	Ø 12 mm	11.7 m	19.8 m
Loggias/wall penetrating concrete slabs	DD- ...-06/08/10	Ø 10.5 mm	12.6 m	21.2 m
	DD- ...-12	Ø 12 mm	11.7 m	19.8 m
Roof parapets	AT	Ø 8 mm	13.5 m	23.0 m
Balcony parapets	FT	Ø 8 mm		
Corbels	OT	Ø 8 mm		

## YOUR BENEFITS – IN PLANNING AND EXECUTION:

- › Balconies can be designed up to twice as long before requiring expansion joints
- › Expansion-joint-free parapets of up to 23 metres are now possible
- › Flexible planning of concrete sections and reduction in the time and effort required for formwork and reinforcement preparation, and concreting
- › More effective use of transport lengths with prefabricated balconies



**HALFEN HSD-Set** – the HSD Shear dowel system to transfer shear stresses in structural building joints

## ENHANCED DESIGN POSSIBILITIES

In addition, verification of the compression strut,  $\frac{1}{3} V_{Rd,max}$  is no longer necessary. Without this limitation design possibilities are increased, especially with simply supported balconies and with loggias.

### GIVE US A CALL!

Our Technical support team is available for consultation:

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