



Balcony reconstruction



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1. Introduction

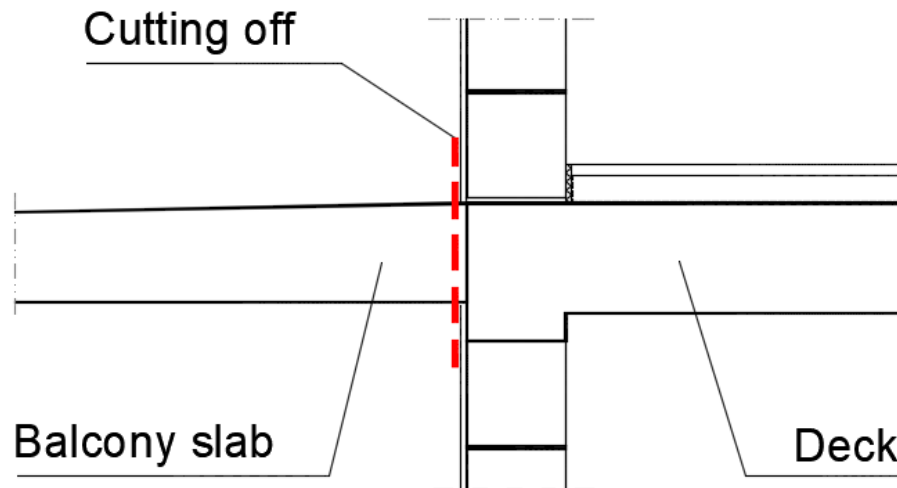
In 1960s in eastern Europe, they began to build residential buildings on a massive scale. The common name for this type was „Chruszczowki”. The material used were on low quality. The thermal and energy efficiency were on pure level. During the object „lifetime”, specially the external construction elements like balconies, appeared to have low durability. The construction of balconies started to threaten the safety. The safety start to be a society issue.



1. Introduction

Due this fact and due to HALFEN experience in balcony connectors, we'd like to present proposal for balcony reconstruction in Chruszczowki" residential buildings. Two way of balcony construction is considered: concrete and steel. The construction must be durable and safe. The thermal and energy efficiency is a key factor.

The construction of useless balcony should be cut off from the deck construction.

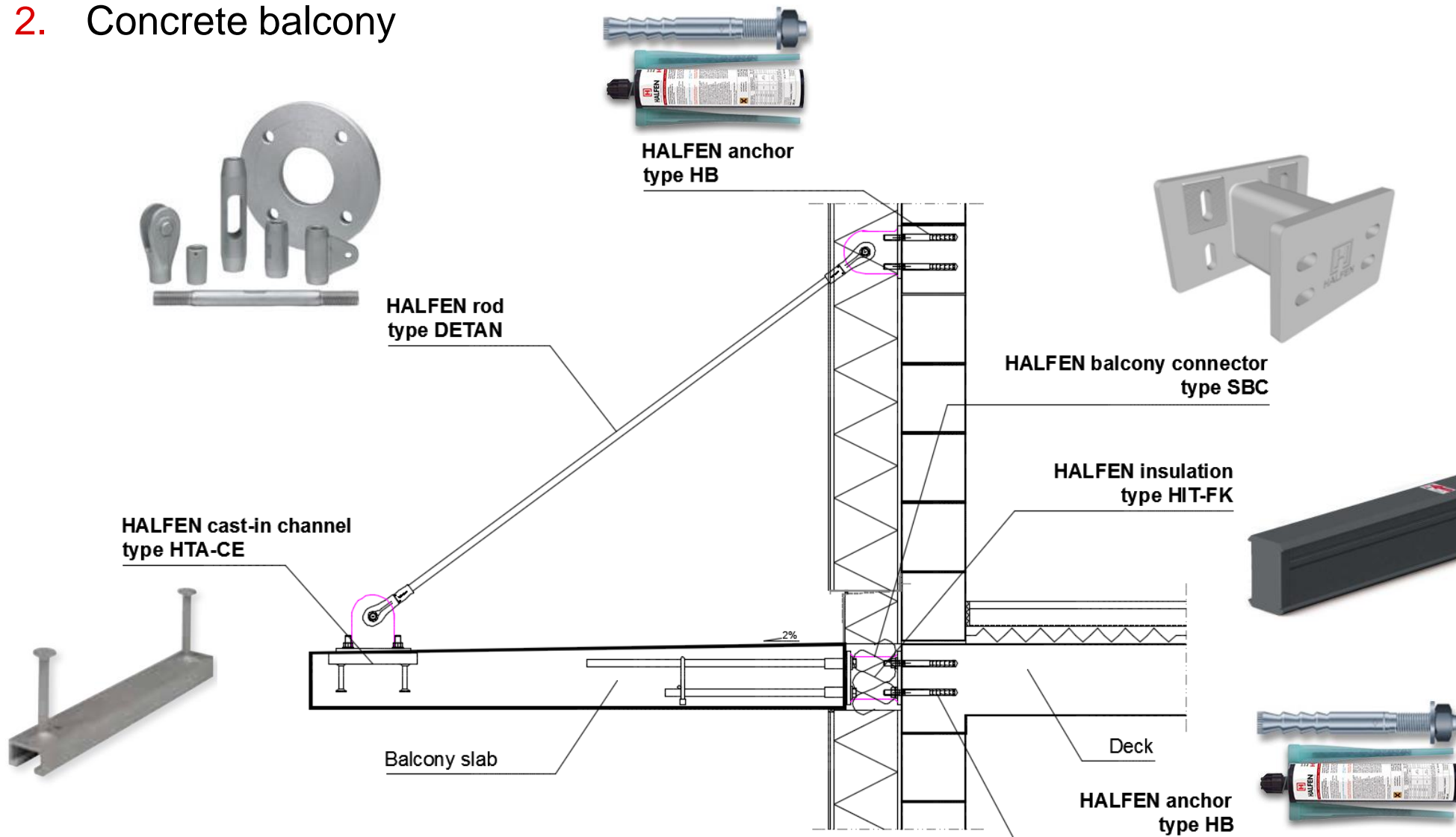


2. Concrete balcony

The proposal for reconstruction of concrete balcony is based on the HALFEN product range. The SBC connector with the HB anchor bolt system give the safe and durable connection between balcony slab and deck. To avoid the bending moment in connection the tip of the balcony slab is hanged on the edge of balcony with the DETAN rod connection system and HTA-CE cast-in channel. DETAN rod connection shall be hided in the balustrade area. Gaps need to be filled with HIT-FK insulated element.

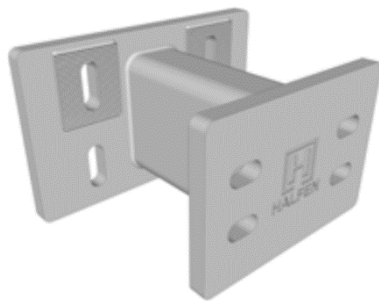


2. Concrete balcony



3. Steel balcony

The proposal for reconstruction of steel balcony is based on the HALFEN product range. The SBC connector with the HB anchor bolt system give the safe and durable connection between balcony slab and deck. To avoid the bending moment in connection the tip of the balcony slab is hanged on the edge of balcony with the DETAN rod connection system. DETAN rod connection shall be hided in the balustrade area. Gaps need to be filled with HIT-FK insulated element.



SBC connector



HIT-FK
Insulated connector



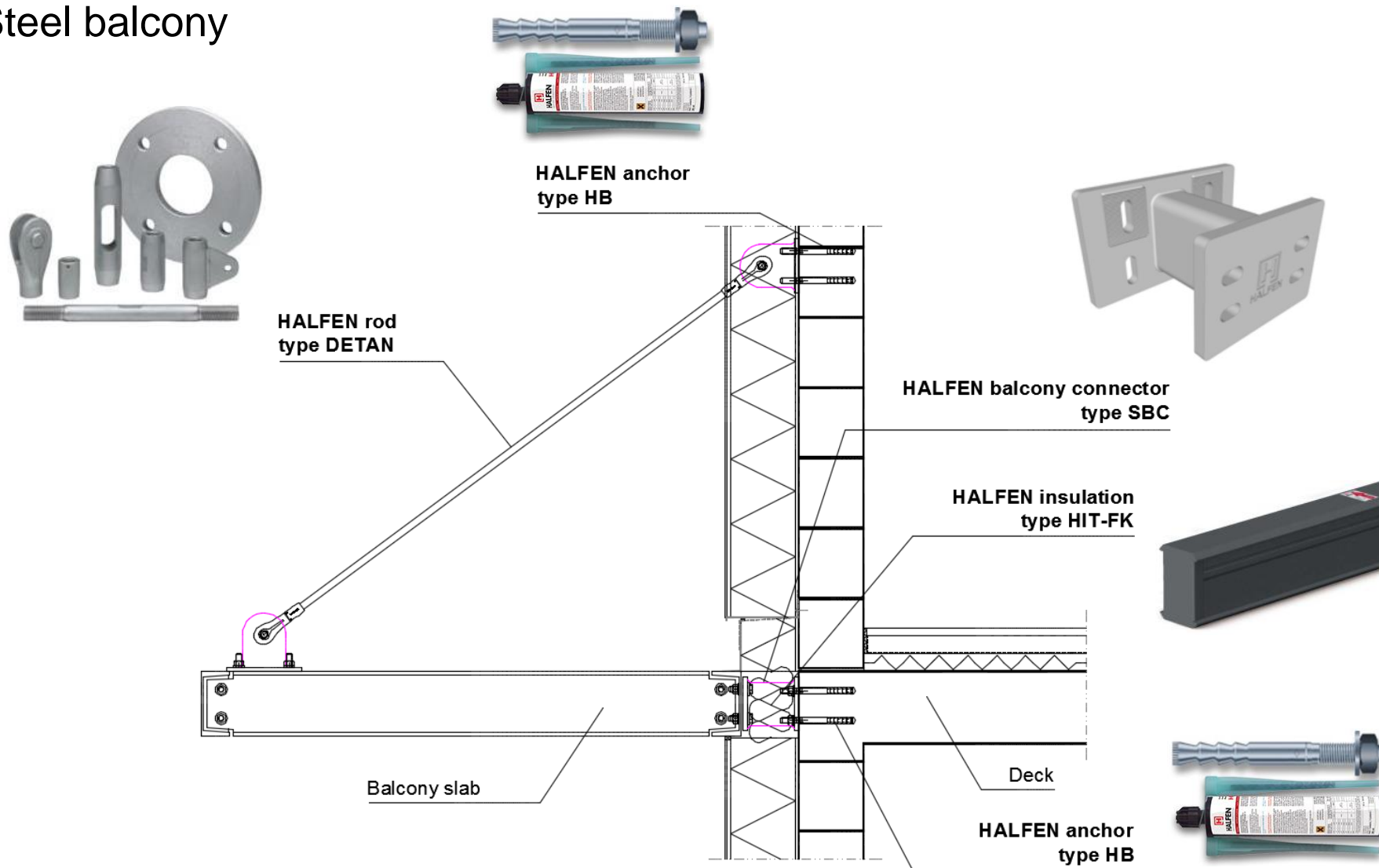
HB anchor



DETAN rod

Balcony reconstruction

3. Steel balcony





Thank you for attention