

# Fire protection

## Fire protection configuration | Fire-resistance classes

### Schöck Isokorb® T with fire protection

The Schöck Isokorb® T comes with fire protection as standard.

The fire protection designation specially for T type B and T type W is R90. The fire protection designation for T type K, Q-E, H and D is REI120.

For this purpose, fire protection boards are attached to the Schöck Isokorb® (see figure). Prerequisite for the fire resistance classification of the balcony connection is that the balcony slab and the ceiling also fulfil the requirements for the necessary fire resistance class according to SS-EN 1992-1-1 and SS-EN 1992-1-2 (EC2). If, in addition to the load-bearing capacity (R), integrity (E) and insulation (I) are also required in case of fire, then the block-outs between the Schöck Isokorb® are to be closed, e.g. using the Schöck Isokorb® T type Z fire protection configuration.

The enclosing design function of the Schöck Isokorb® T has been tested based on the requirements for floors according to SS-EN 1365-2. The basis for this test is SS-EN 1365-5. The fire protection of the Schöck Isokorb® is also tested in the same manner as floors according to SS-EN 1365-2. The classification REI (R – load-bearing capacity, E – integrity, I – shielding against heat when exposed to fire) is therefore obtained.

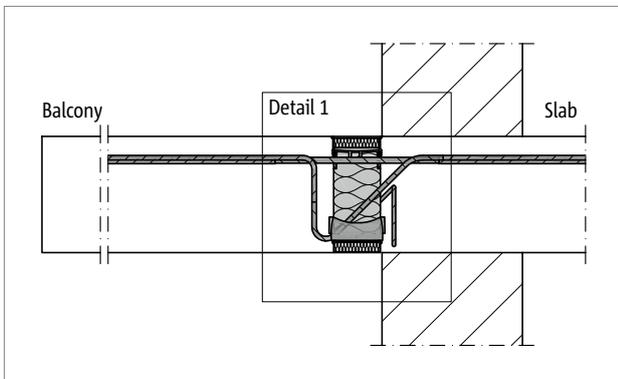


Fig. 17: Schöck Isokorb® T type K-E, K-T for REI120: Fire protection board top and bottom; lateral integrated fire protection bands

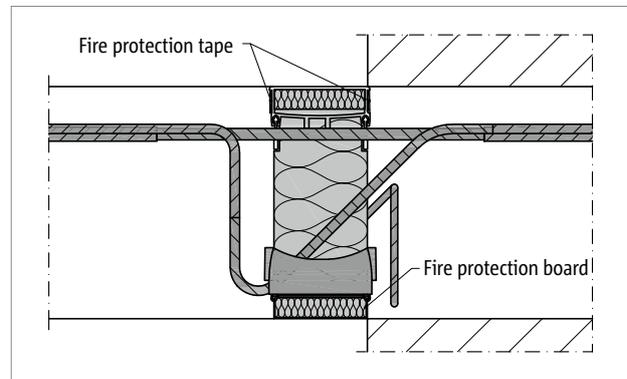


Fig. 18: Schöck Isokorb® T type K-E, K-T for REI120: Detail 1

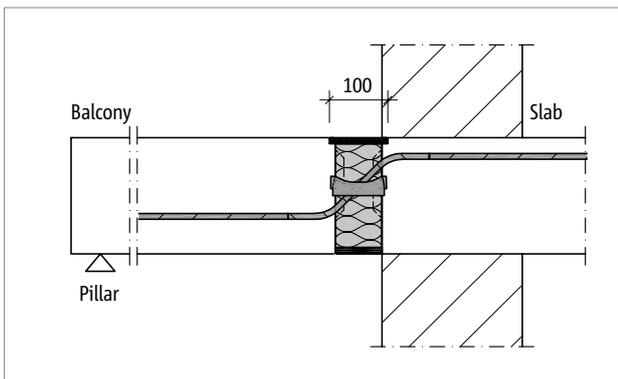


Fig. 19: Schöck Isokorb® T type Q-E-V for REI120: Fire protection board top, projecting laterally

### Fire resistance classes REI120, R90

The reaction to fire of structural components is classified on the basis of the European Standard SS-EN 13501-2. The European classification system is on par along side the previous classification system as per DIN 4102.

Users have the option for verification of reaction to fire or fire resistance based either on DIN 4102 or on SS-EN 13501-1 (reaction to fire) and/or SS-EN 13501-2 (fire resistance).

The various types of Schöck Isokorb® T achieve the following fire resistance classes:

Schöck Isokorb® T type	Q-E, K-E, K-T, H, D	B, W
Fire resistance class	REI120	R90

## Fire protection configuration for passageway walks

### Linear and point slab connections

Walkway passages that serve as necessary corridors, “must, as load-bearing and space-enclosing building components between storeys, be sufficiently stable and resistant to the spread of fire in the event of fire”. In order to meet the requirement of the room closure it is possible to combine point and linear, load-bearing and non-load-bearing Schöck Isokorb® types. The elements must be installed perfect fit and the fire protection panels must lie in one plane.

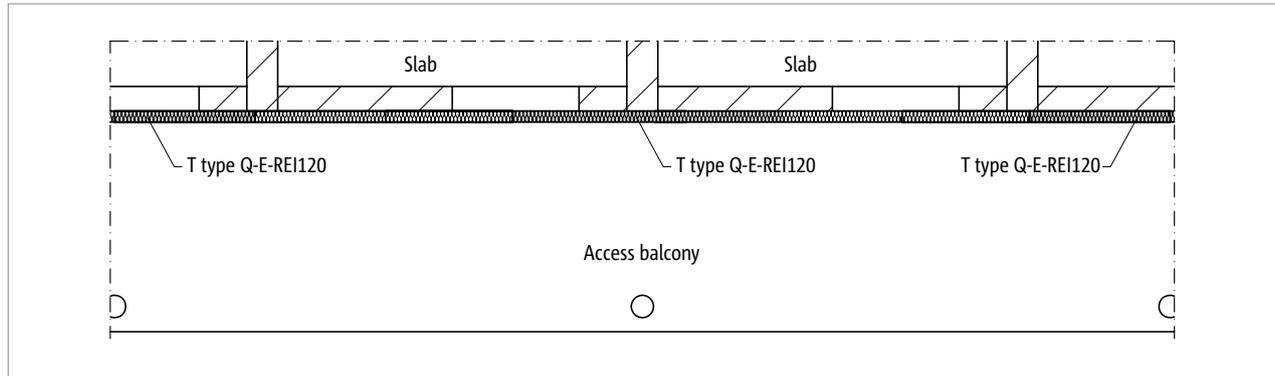


Fig. 20: Schöck Isokorb® T type Q-E-REI120: Room-closing passageway walk