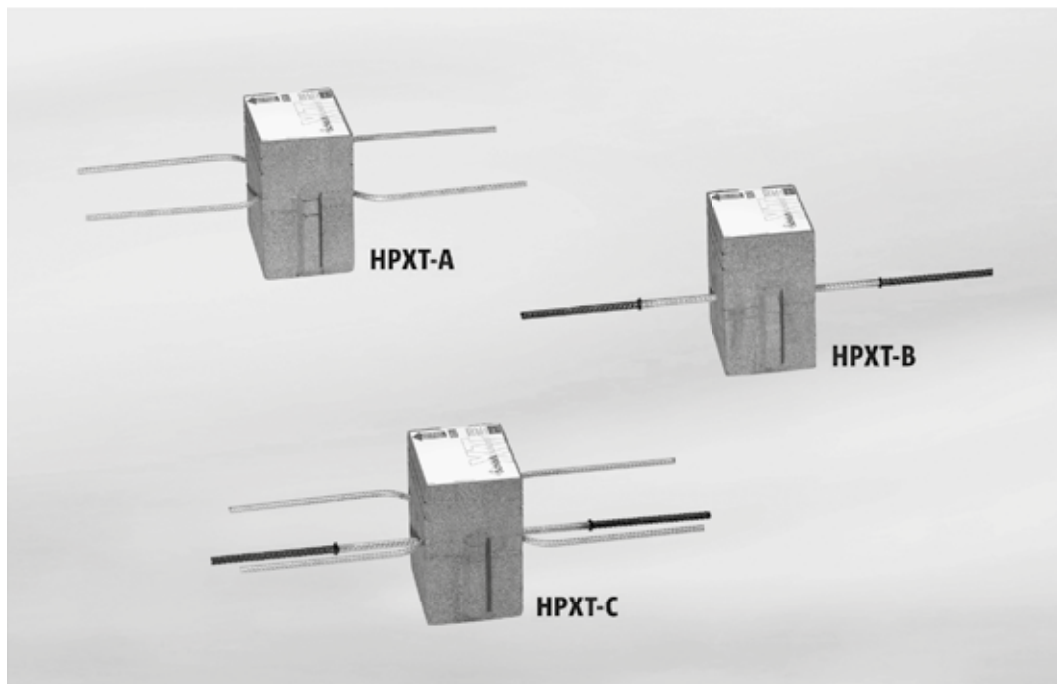


Schöck Isokorb® supplementary type HPXT



Schöck Isokorb® types HPXT-A, HPXT-B, HPXT-C

Schöck Isokorb® supplementary type HPXT

Suitable for standard existing horizontal forces.

The Schöck Isokorb® supplementary type HPXT-A transmits forces parallel to the insulation layer.

The Schöck Isokorb® supplementary type HPXT-B transmits forces perpendicular to the insulation layer.

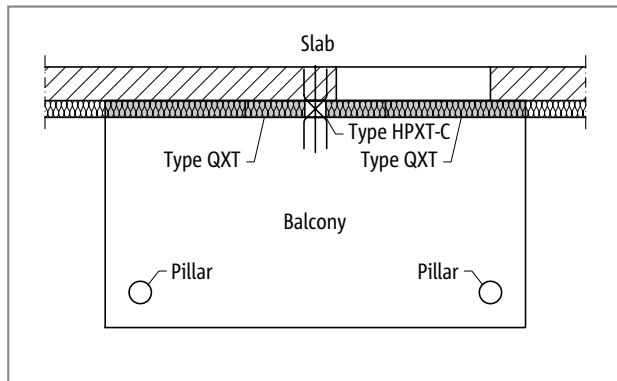
The Schöck Isokorb® supplementary type HPXT-C transmits forces both parallel as well as perpendicular to the insulation layer.

The Schöck Isokorb® supplementary type HPXT-A or supplementary type HPXT-B is to be included only in combination with an approved Isokorb® type KXT, type QXT, type QPXT or type DXT.

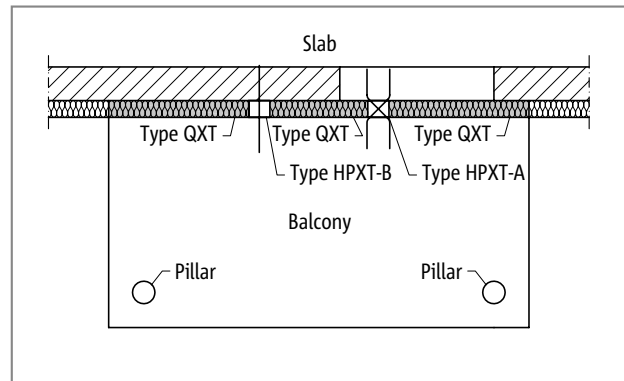
HPXT

Reinforced concrete/Reinforced
concrete

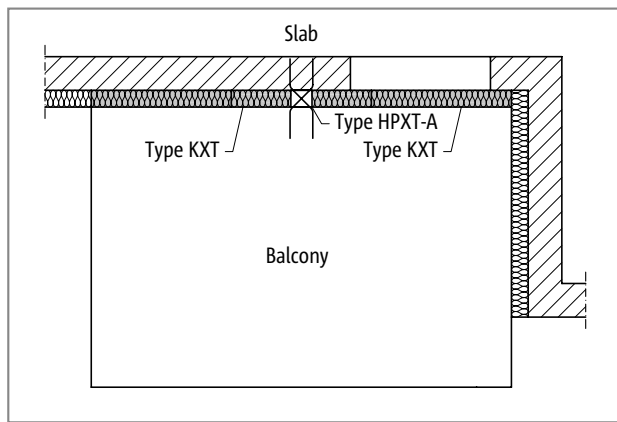
Element arrangement | Installation cross sections



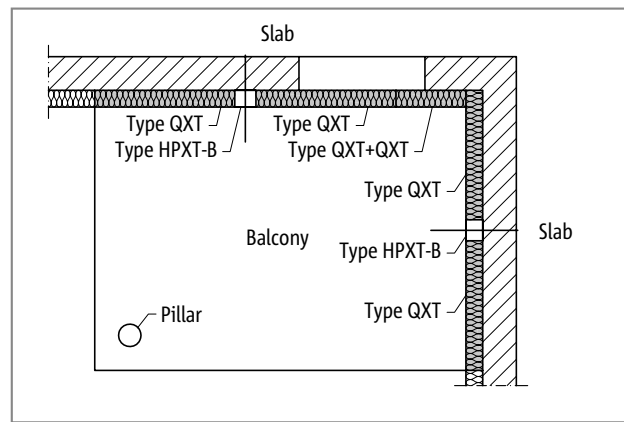
Schöck Isokorb® type HPXT: Balcony with column support



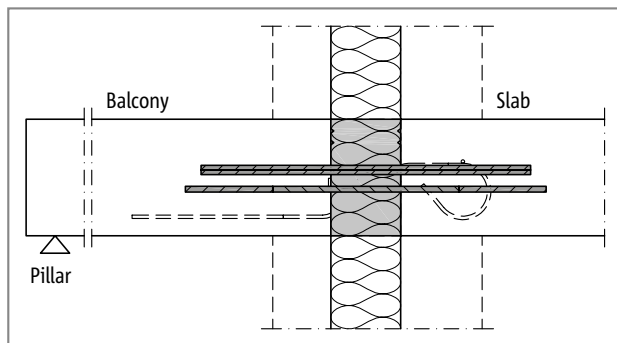
Schöck Isokorb® type HPXT: Balcony with column support



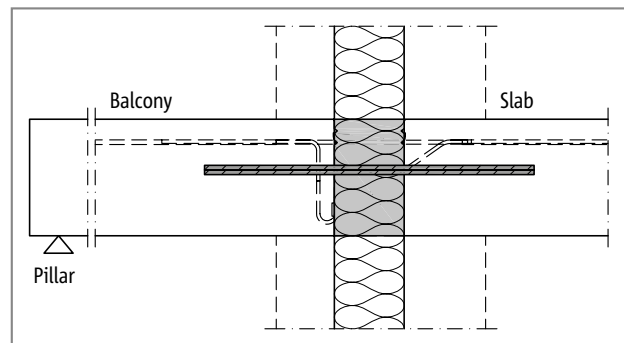
Schöck Isokorb® type HPXT: Balcony freely cantilevered



Schöck Isokorb® type HPXT: Supported on two sides with column



Schöck Isokorb® type QXT, HPXT-C: Indirect support, non-supporting cavity masonry



Schöck Isokorb® type KXT, HPXT-A: Indirect support, non-supporting cavity masonry

HPXT

Reinforced concrete/Reinforced concrete

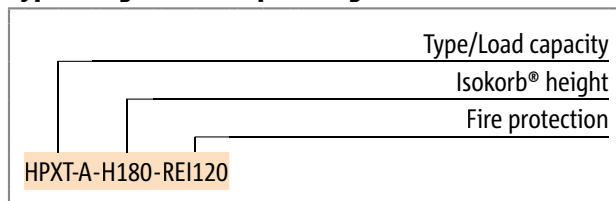
Product selection | Type designations | Special designs

Schöck Isokorb® supplementary type HPXT variants

The configuration of the Schöck Isokorb® supplementary type HPXT can be varied as follows:

- ▶ Variant:
HPXT-A, HPXT-B and HPXT-C
- ▶ Height:
H = 160 - 250 mm
- ▶ Fire resistance class:
RO: Standard
REI120: Projecting upper fire protection slab 10 mm on both sides

Type designations in planning documents



i Special designs

Please contact the design support department if you have connections that are not possible with the standard product variants shown in this information (contact details on page 3).

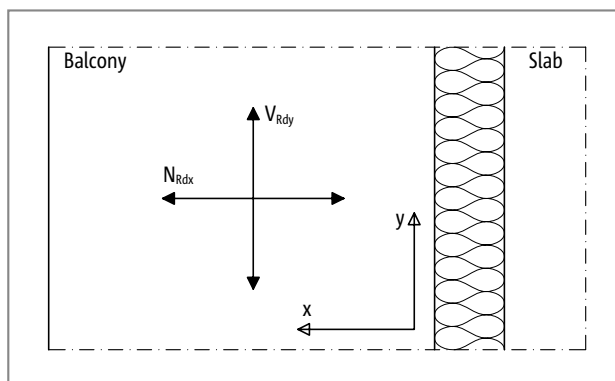
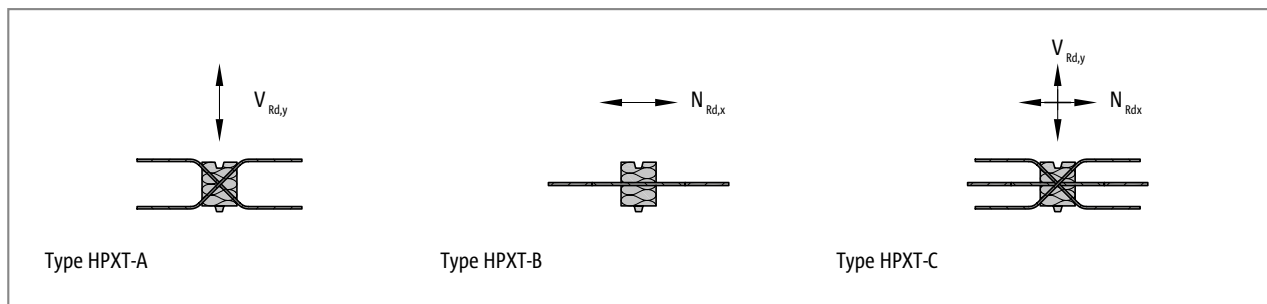
HPXT

Reinforced concrete/Reinforced
concrete

Design

Schöck Isokorb® type	HPXT-A		HPXT-B		HPXT-C	
Design values with	$V_{Rd,y}$ [kN]	$N_{Rd,x}$ [kN]	$V_{Rd,y}$ [kN]	$N_{Rd,x}$ [kN]	$V_{Rd,y}$ [kN]	$N_{Rd,x}$ [kN]
C25/30	±8.6	0.0	0.0	±20.9	±8.6	±20.9

Shear force bars, horizontal	2 \varnothing 8	-	2 \varnothing 8
Tension bars/compression bars	-	1 \varnothing 10	1 \varnothing 10
Isokorb® length [mm]	150	150	150
Isokorb® height H [mm]	160 - 250	160 - 250	160 - 250



Schöck Isokorb® type HPXT: Sign convention for the design

i Notes on design

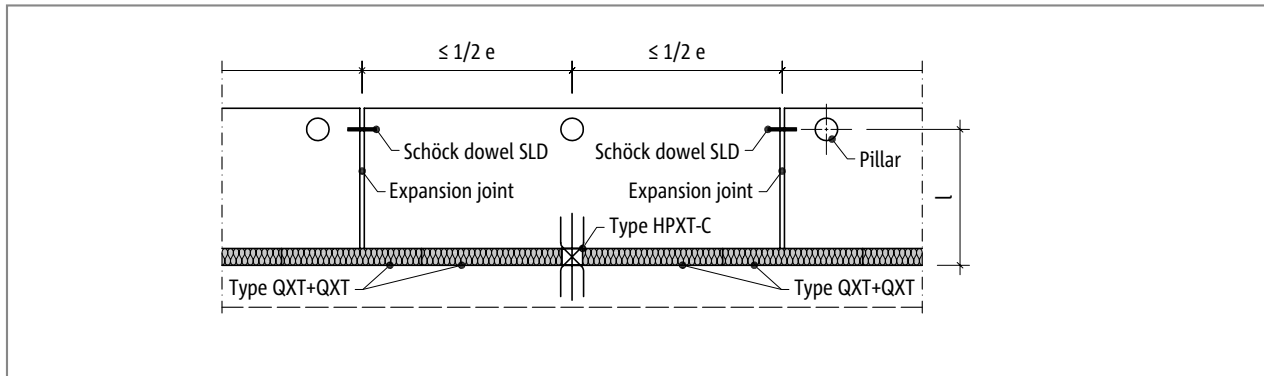
- ▶ With the design of a linear connection it is to be noted that the employment of the supplementary type HPXT, the design values of the linear connection can be reduced (e.g. type QXT with $L = 1.0$ m and supplementary type HPXT with $L = 0.15$ m in the regular exchange a reduction of v_{Rd} of the linear connection with type QXT this means by ca. 13 %).
- ▶ With the selection of type (supplementary type HPXT-A, HPXT-B or HPXT-C) and configuration, attention is to be paid that no unnecessary fixed points are created and the maximum expansion joint spacings (of e.g. type KXT, type QXT or type DXT) are maintained.
- ▶ The required number of Schöck Isokorb® supplementary type HPXT-A, HPXT-B or HPXT-C is to be determined according to static requirements.
- ▶ With different concrete strength classes (e.g. balcony C32/40, inner slab C25/30) basically the weaker concrete is relevant for the design of the Schöck Isokorb®.
- ▶ The indicative minimum concrete strength class of the external structural component is C32/40.

Expansion joint spacing

Maximum expansion joint spacing

If the structural component length exceeds the maximum expansion joint spacing e , expansion joints must be installed in the exterior concrete structural components at right angles to the insulation plane, in order to limit the effect as a result of temperature changes. With fixed points such as, for example, corners of balconies, parapets and balustrades or with the employment of the supplementary types HPXT or EQXT half the maximum expansion joint spacing $e/2$ from the fixed point applies.

The shear force transmission in the expansion joint can be ensured using a longitudinally displaceable shear force dowel, e.g. Schöck Dowel.



Schöck Isokorb® type HPXT: Expansion joint arrangement

Schöck Isokorb® type HPXT combined with	KXT	KXT-HV, KXT-BH, KXT-WU, KXT-WO	QXT, QXT+QXT	QPXT, QPXT+QPXT, QPZXT	DXT
maximum expansion joint spacing from fixed point $e/2$ [m]	$\leq e/2$ see p. 59	10.9	$\leq e/2$ see p. 123	$\leq e/2$ see p. 139	9.9

i Edge distances

The Schöck Isokorb® must be so arranged at the expansion joint that the following conditions are met:

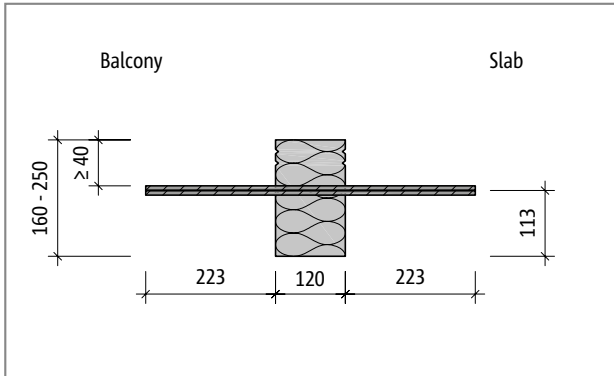
- ▶ For the centre distance of the tension bars from the free edge or from the expansion joint: $e_R \geq 50$ mm and $e_R \leq 150$ mm applies.
- ▶ For the centre distance of the compression elements from the free edge or from the expansion joint: $e_R \geq 50$ mm applies.
- ▶ For the centre distance of the shear force bars from the free edge or from the expansion joint: $e_R \geq 100$ mm and $e_R \leq 150$ mm applies.

HPXT

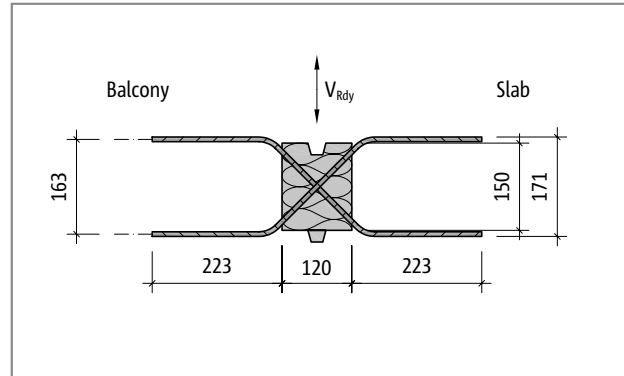
Reinforced concrete/Reinforced concrete

Product description

Schöck Isokorb® supplementary type HPXT-A for transmission of horizontal force $V_{Ed,y}$ parallel to the insulation layer

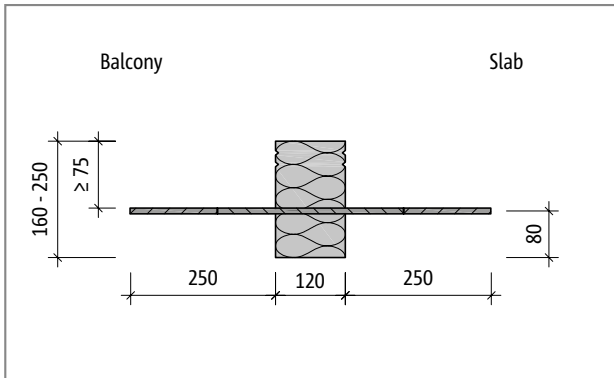


Schöck Isokorb® type HPXT-A: Product section

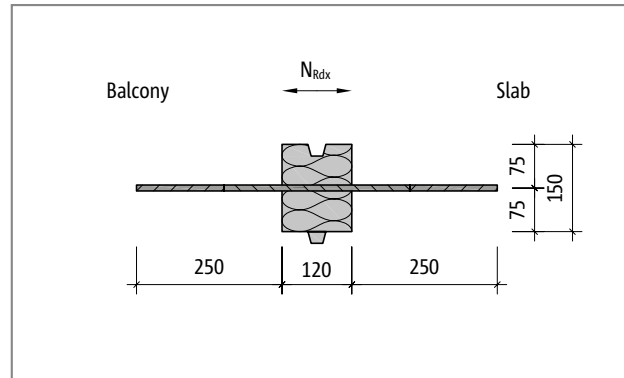


Schöck Isokorb® type HPXT-A: Product plan view

Schöck Isokorb® supplementary type HPXT-B for transmission of horizontal forces $N_{Ed,x}$ perpendicular to the insulation layer

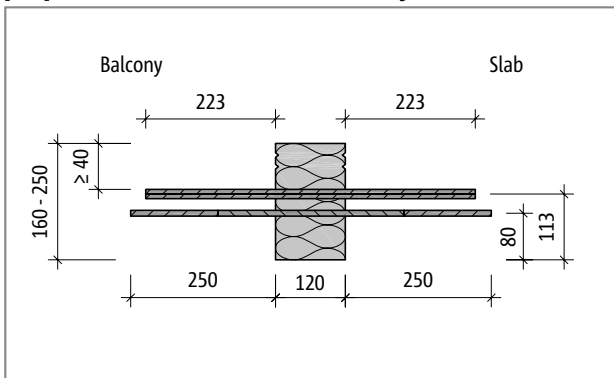


Schöck Isokorb® type HPXT-B: Product section

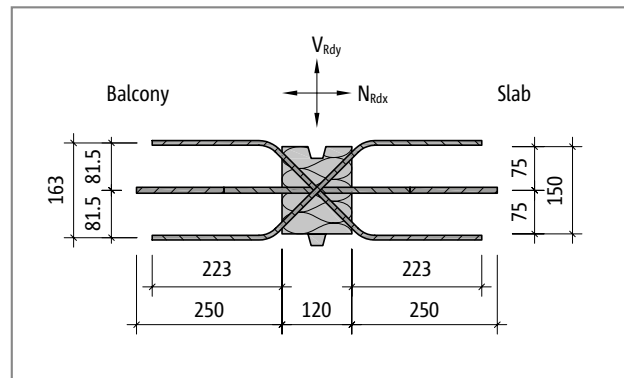


Schöck Isokorb® type HPXT-B: Product plan view

Schöck Isokorb® supplementary type HPXT-C for the transmission of horizontal forces $V_{Ed,y}$ parallel and $N_{Ed,x}$ perpendicular to the insulation layer



Schöck Isokorb® type HPXT-C: Product section



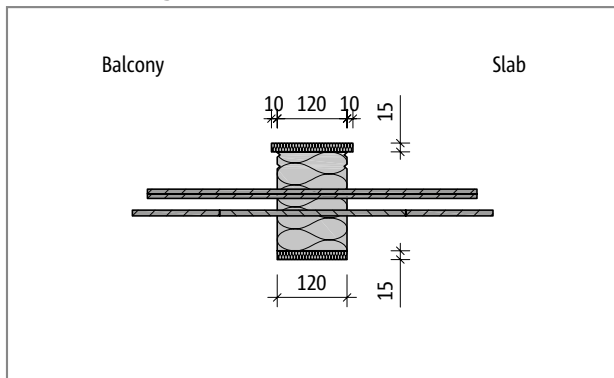
Schöck Isokorb® type HPXT-C: Product plan view

i Product information

- ▶ Download further product plan views and cross-sections at www.schoeck.co.uk/download

Fire protection configuration

Product configuration with fire protection requirement



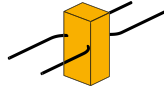
Schöck Isokorb® type HPXT-C Product section with REI90: Fire protection slab top and bottom

HPXT

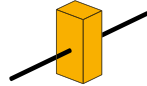
Reinforced concrete/Reinforced
concrete

Installation instructions

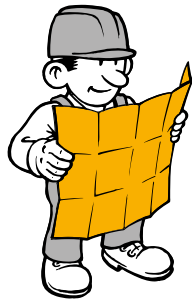
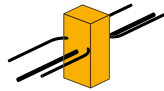
Typ HP-A
Typ HPXT-A



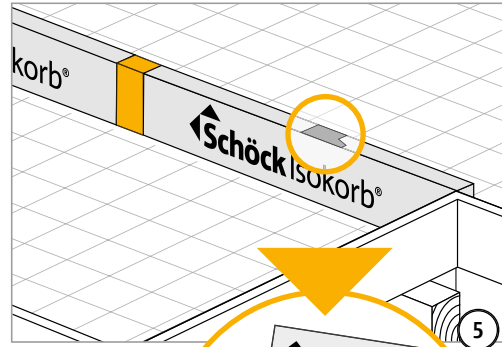
Typ HP-B
Typ HPXT-B



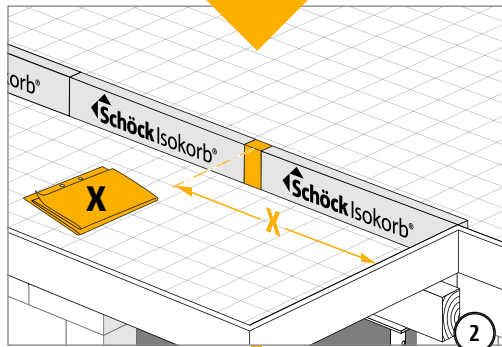
Typ HP-C
Typ HPXT-C



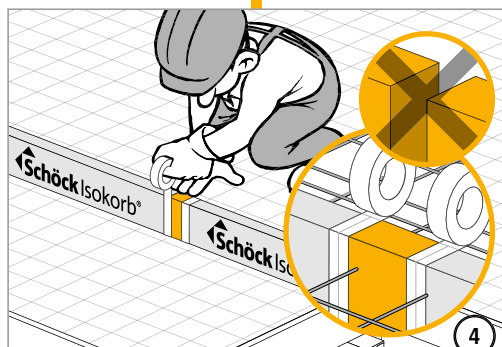
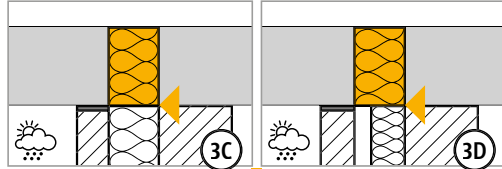
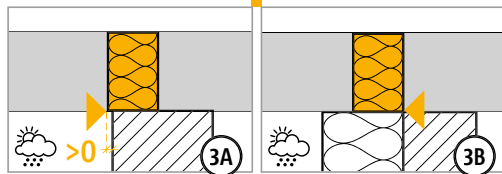
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5



2



4

HPXT

Reinforced concrete/Reinforced concrete

✓ Check list

- Have the loads on the Schöck Isokorb® connection been specified at design level?
- With a linear connection in combination with Schöck Isokorb® of length 1 m, has the reduction of the design values of the linear connection been taken into account?
- With the selection of the design table is the relevant concrete cover taken into account?
- Are the maximum allowable expansion joint spacings taken into account?
- Is the required component geometry present with the connection to a floor or a wall? Is a special design required?
- Are the requirements with regard to fire protection explained and is the appropriate addendum entered in the Isokorb® type description in the implementation plans?

HPXT

Reinforced concrete/Reinforced
concrete