

CERTIFICATE

Certified Passive House Component

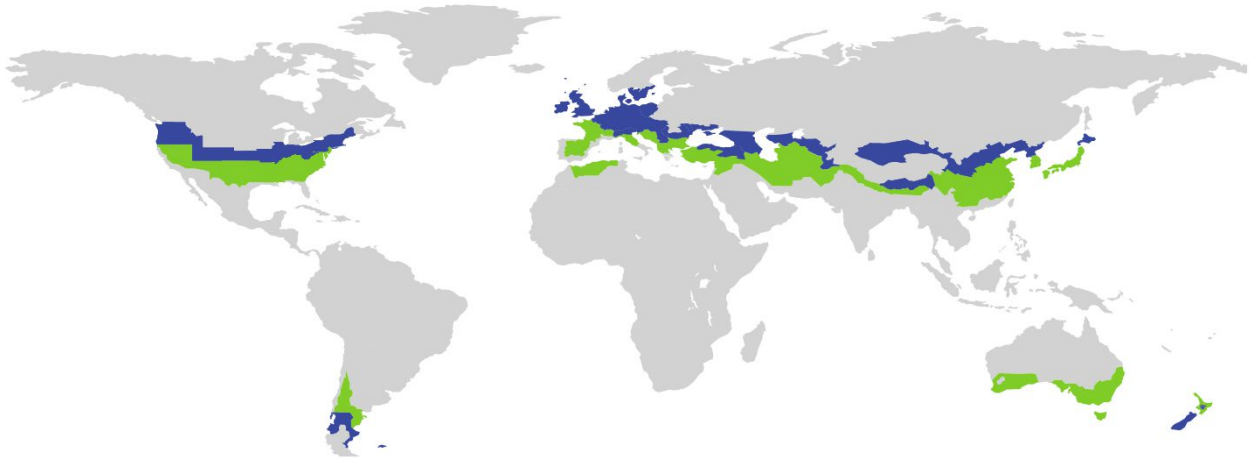
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Passive House Institute

Dr. Wolfgang Feist

64342 Darmstadt

GERMANY



Category **Column connection**
Manufacturer **Schöck Bauteile GmbH**
76534 Baden-Baden
GERMANY
Product name **Sconnex® Typ P**

This certificate was awarded based on the following criteria for the climate zone

Hygiene criterion

Temperaturefactor of opaque junctions

$$f_{R_{si}=0,25m^2K/W} \geq 0.70$$

Energy criterion

The thermal bridge coefficient is

$$X \leq X_{Max}$$



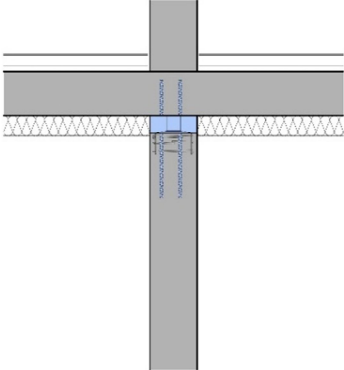
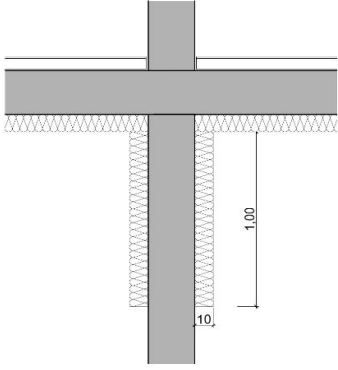
cool, temperate climate



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COMPONENT**

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Determined values

Sconnex® Typ P	Continuous column	Reference flank-insulation
	Heat transfer coefficient ceiling 0.236 W/(m²K)	
	Thermal bridge coefficient X 0.1364 W/K	
	$f_{Rsi}=0.25m^2K/W$ 0.75	
	Thermal bridge coefficient X_{Max} reference flank-insulation 0.1477 W/K	
	Thermal bridge coefficient without thermal separation 0.3064 W/K	

Application

Schöck Sconnex® Type P reduces the thermal bridge created in the connection detail between the reinforced concrete column and ceiling. The load-bearing thermal insulation element mainly transfers normal forces and is used at the column head. The omitted flank insulation means that reinforced concrete columns can be implemented with a continuous insulation layer.

Note

The maximum point thermal bridge loss coefficient (X_{Max}) for column connection situations corresponds to the point thermal bridge loss coefficient of the same construction with flank insulation (1.00 m length, 10 cm insulation thickness all round, thermal conductivity 0.035 W/(mK) without thermal separation element.

Calculations and boundary conditions according to the criteria and algorithms "Certified Passive House Components - Column- and wall- connection, Version 1.1"