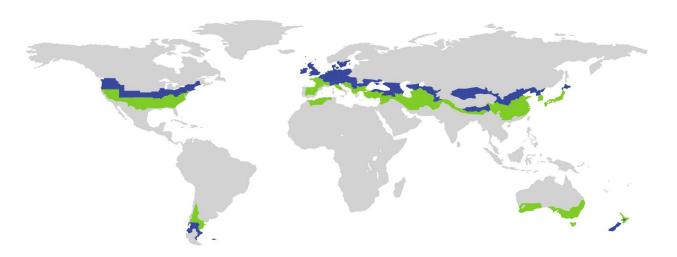
# **CERTIFICATE**

Certified Passive House Component

ID: 1903cc03 valid until 31. December 2025

Passive House Institute
Dr. Wolfgang Feist
64342 Darmstadt
GERMANY



Category Column connection

Manufacturer Armatherm Thermal Bridging Solutions

**BD2 1QN Bradford UNITED KINGDOM** 

Product name Armatherm 500-320 & 500-490

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

## **Hygiene criterion**

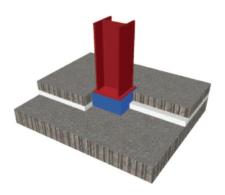
Temperaturefactor of opaque junctions

 $\mathbf{f}_{\text{Rsi}=0.25\text{m}^2\text{K/W}} \geq \mathbf{0.86}$ 

## **Energy criterion**

The thermal bridge coefficient is

 $X \leq X_{Max}$ 



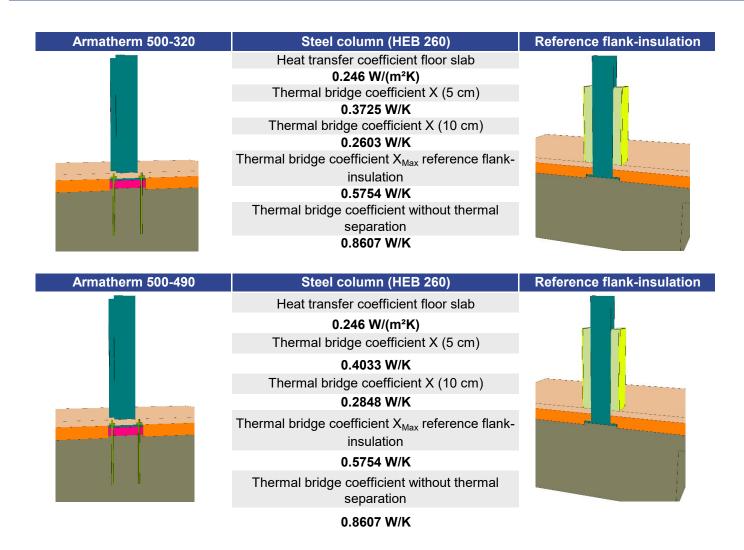


### **Armatherm Thermal Bridging Solutions**

**BD2 1QN Bradford UNITED KINGDOM** 

01274 591115 | www.armatherm.com

## **Determined values**



### Application and explanatory notes

The Armatherm 500 column base thermal seperation elements reduce the thermal bridges of steel-columns penetrating the insulation layer above a floor slab. The values have been determined for a HEB 260 steel column with a base plate and four anchoring bolts. Smaller columns result in a reduced thermal bridge. The corresponding thermal bridges for a 50 mm and 100 mm seperating element can be found in the table above. A minimum thickness of 50 mm is required in order to ensure sufficient interior temperatures.

#### 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"