

# Certificate

## Certified Passive House Component

for cool, temperate climate, valid until 31.12.2023

Category: **Balcony connection**  
**Slab thickness 160 - 250 mm**  
Manufacturer: **Farrat Isolevel Limited**  
**Altrincham, UK**  
Product name: **FARRAT TBK**

### The following criteria were used in awarding this certificate:

#### Efficiency Criterion

In two typical applications\*, the construction fulfills the requirement of

$$\Delta U_{WB} \leq 0.010 \text{ W}/(\text{m}^2\text{K})$$

#### Comfort Criterion

The inner surface must be warm enough to prevent mould as well as uncomfortable down-draught and radiation losses.

$$\theta_{i,\min} \geq 17^\circ\text{C}$$

Following heat transmission coefficients X [W/K] have been determined:

Component	Thermal bridge coefficient X [W/K]	Max. amount/m [P./m]	Min. distance [m]
FARRAT TBK** with IPE 140	0.132	0.80	1.25

#### Efficiency Criterion - Low Energy Component

In two typical applications\*, the construction fulfills the requirement of

$$\Delta U_{WB} \leq 0,025 \text{ W}/(\text{m}^2\text{K})$$

Component	Thermal bridge coefficient X [W/K]	Max. amount/m [P./m]	Min. distance [m]
FARRAT TBK** with IPE 140	0.132	1.85	0.54

\* The criterion was validated on both, a row house and a apartment dwelling.

(according to criteria "balcony connection" v2.1.1)

\*\* applicable for 25 mm plate thickness

[www.passivehouse.com](http://www.passivehouse.com)

1451bc03

Isothermal map of the FARRAT TBK with IPE 140

Representation of the FARRAT TBK with IPE 140

cool, temperate climate

