

Certificate

Certified Passive House component

for cool, temperate climate, valid until 31.12.2022

Category: **Facade anchor**
 Manufacturer: **FERO Corporation**
Edmonton, CANADA
 Product name: **FERO FAST Thermal Brackets™**
Offset Shelf Angle Support

The following criteria were used in awarding this certificate:

Efficiency Criterion

In a typical application*, the construction fulfills the requirements of

$$\text{Eff. fa} \leq 0.200 \text{ W/(kNK)}$$

Comfort Criterion

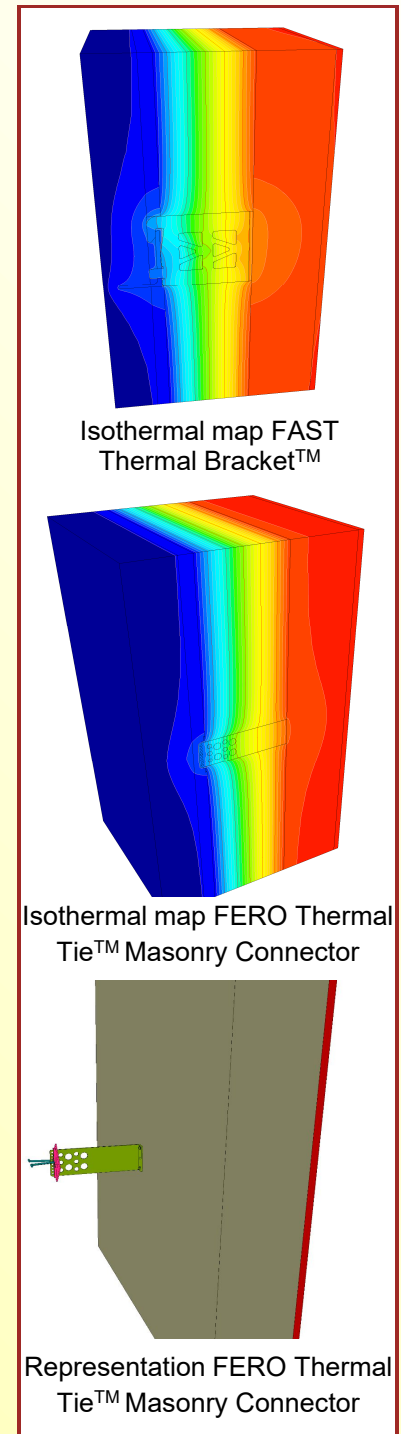
The inner surface must be warm enough to prevent mold as well as uncomfortable down-drafts and radiation losses.

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

Thermal data of the certified component

FERO FAST Thermal Brackets™	Thermal bridge coefficient χ [W/K]	Minimum interior surface temperature $\theta_{i,\min}$ [°C]
FAST Thermal Bracket - stainless steel	0.0807	18.27
FAST Thermal Bracket Lintel - stainless steel	0.0805	18.28
FERO Thermal Ties - stainless steel	0.0102	19.15

* The criterion has been validated with a representative facade of a school building



Data sheet FERO Corporation, FERO FAST Thermal Brackets™

Manufacturer FERO Corporation
 15305 - 117th Avenue, T5M 3X4, Edmonton
 www.ferocorp.com

Criteria validated based on reference facade	ΔU [W/m²K]
LC VI	0.055

In order to validate the suitability, the manufacturer provides a static calculation and an associated installation plan for the reference facade.

Load class / Facade weight		Thermal bridge coefficients [W/K]		
LC / Material	[kN/m ²]	X _{FAST Thermal Bracket}	X _{FAST Thermal Bracket Lintel}	X _{FERO Thermal Tie™ Masonry Connectors}
VI / Brick	1.92	0.0807	0.0805	0.0102

Efficiency	Δ_U	Quantity / m ²		
[W/(kNk)]	[W/m ² K]	FAST Thermal Bracket	FAST Thermal Bracket Lintel	FERO Thermal Tie™ Masonry Connectors
0.0287	0.0552	0.185	0.247	2.00



Installation-plan reference facade of the certified component (LC VI)

Load-class (LC)	Facade cladding	Facade weight [kN/m ²]	Efficiency criterion fulfilled?
I	Aluminium laminated	0.10	not evaluated
II	Plastic	0.15	not evaluated
III	Fiber-cement plates	0.20	not evaluated
IV	Acrylic glass	0.25	not evaluated
V	Ceramics	0.30	not evaluated
VI	Brick	1.92	yes

The classification criteria and the load class allocation can be found in the current criteria "Zertifizierte Passivhaus Komponente – Fassadenanker, Version 2.0, 08.05.2017".