

Certificate

Certified Passive House component

for cool, temperate climate, valid until 31.12.2025

Category: **Facade anchor**
 Manufacturer: **Engineered Assemblies Inc.**
Mississauga, Ontario, CANADA
 Product name: **Engineered Assemblies T200 TcLip**

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.

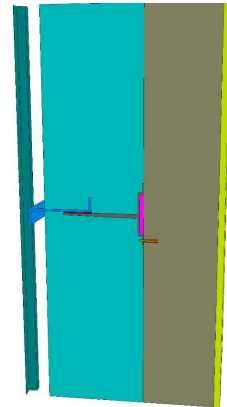
$$\theta_{i,\min} \geq 17^\circ\text{C}$$

Thermal data of the certified component

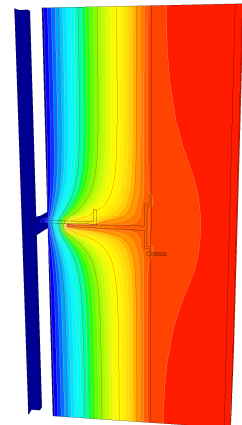
Engineered Assemblies T200 TcLip	Thermal bridge coefficient	Minimum interior surface temperature $\theta_{i,\min}$ [°C]
Supporting bracket (fixed)	0.0089 W/K	19.18
Girt (without clip)	0.0042 W/(mK)	19.31

The effective thermal bridge of the clip is the combined thermal bridge of clip and girt subtracted by the thermal bridge of the girt.

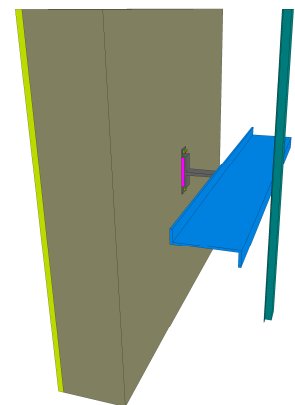
* The criterion has been validated with a representative facade of a school building



Cross section



Isothermal map



Representation

cool, temperate climate



CERTIFIED COMPONENT

Passive House Institute

Data sheet Engineered Assemblies T200 TcLip

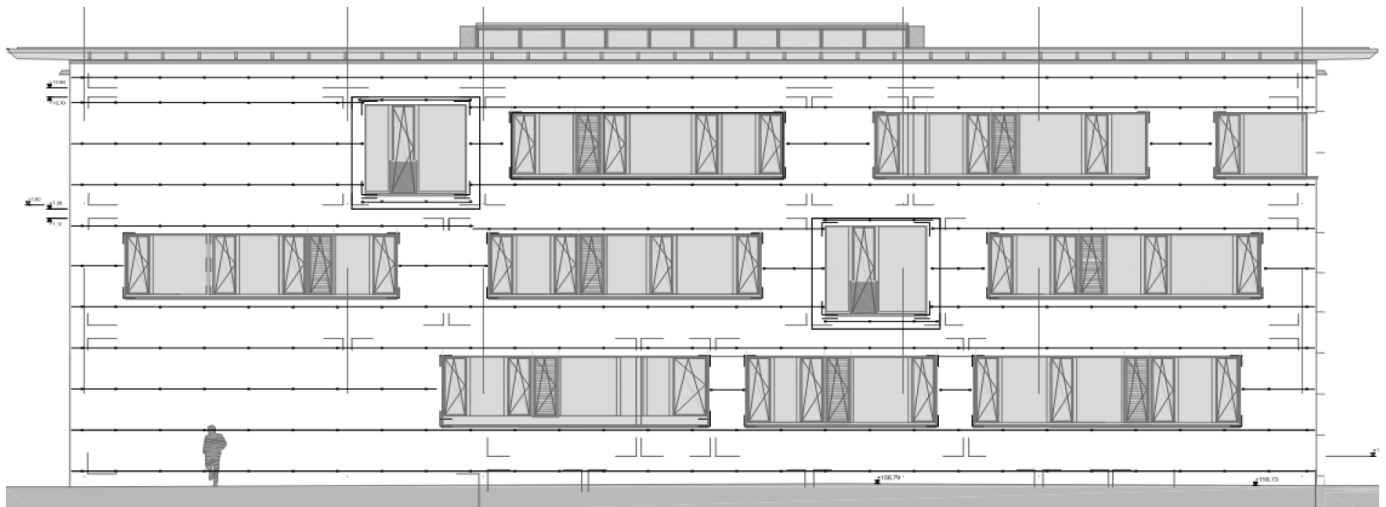
Manufacturer Engineered Assemblies Inc.
 3610 Odessey dr, Unit 3, L5M0Z9 Mississauga, Ontario
 www.engineeredassemblies.com

Criteria validated based on reference facade	ΔU [W/m²K]
LC I - IV	0.0131

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

The calculations are carried out for a reference facade with 24 cm insulation (0.035 W/(mK)).

Load class	Efficiency	ΔU	Quantity / m ²	
			Girt [l/m ²]	Clip [Clips/m ²]
LC	[W/(kNK)]	[W/m ² K]		
IV	0.0504	0.0131	1.04	0.98



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	yes
II	ACM	0.15	yes
III	Fiber-cement plates	0.20	yes
IV	Acrylic glass	0.26	yes
V	Ceramics	0.30	not evaluated
VI	Stone	0.50	not evaluated

The classification criteria and the load class allocation can be found in the current criteria "Certified Passive House components – Facade anchors, Version 2.1, 27.05.2021".