## Certificate

**Certified Passive House component** for cool, temperate climate, valid until 31.12.2025

Category: Facade anchor Manufacturer: Stoa OOD Sofia, BULGARIA Product name: BILDA Rainscreen System

# The following criteria were used in awarding this certificate:

#### **Efficiency Criterion**

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

### Eff.fa ≤ 0.200 W/(kNK)

#### **Comfort Criterion**

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

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

#### Thermal data of the certified component

BILDA Rainscreen System	Thermal bridge coefficient	Minimum interior surface temperature		
	χ [W/K]	θ <sub>i,min</sub> [°C]		
Supporting bracket (fixed)	0.0353	18.87		
Restraining bracket	0.0053	19.26		
Supporting bracket II	0.0353	18.87		

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

#### www.passivehouse.com

Passive House Institute 64283 Darmstadt GERMANY



Isothermal map fixed point



Isothermal map sliding point



Representation



2079fa03

## Data sheet Stoa OOD BILDA Rainscreen System

Manufacturer	Stoa OOD
	3A, Ivan Borimechkata Street, 1756 Sofia

www.bilda.net

Criteria validated	
based on reference	
facade	
LC I - VI	0.0139

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 clas	s / Fa	cade weight	Thermal bridge coe		ridge coefficie	ents [W/K]	
				X <sub>FP Supp</sub>	orting	X <sub>SP Restraining</sub>	X <sub>FP Supporting</sub>	
	LC / Mater	ial	[kN/m²]	Brack	et	Bracket	Bracket	
	VI / Stone	2	0.50	0.03	53	0.0053	0.0353	
	Load class		Efficiency	ΔU			Quantity / m <sup>2</sup>	
	LC	[	W/(kNK)]	[W/m²k	۲]	Supporting Bracket	Restraining Bracket	Alternative Supporting Bracket
	VI		0.0279	0.0139	)	0.12	0.49	0.20
1200 1800 1800 1800 1800 1800 1800								

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

Load-class (LC)	Facade cladding	Facade weight [kN/m²]	Efficiency criterion fulfilled?
I	Aluminium laminated	0.10	yes
II	ACM	0.15	yes
III	Fiber-cement plates	0.20	yes
IV	Acrylic glass	0.25	yes
v	Ceramics	0.30	yes
VI	Stone	0.50	yes

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".