## **G** aluron

GEMINI

### **GEMINI PASSIV** $\geq$

wood-aluminium system for passive housing

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GEMINI Passiv, as a certified component of Passivhaus Institut, meets its requirements for passive housing, that is:  $Uw \leq 0,80 W/(m^2K)$  in combination with triple-glazing  $Ug = 0.7 W/m^{2}K.$ 

The system utilizes innovative insulation material of high durability utilises on foamed PS, which shares the properties of wood. Thanks to its high level of rigidity, GEMINI clips can be screwed directly into it. Additional components that distinguish this system from more traditional wood-alu designs include the breader main gasket, PE cord, additional central gasket, and the use of a Swisspacer Ultimate warm edge spacer bar.

A certified result of Uw=0.79 W/(m<sup>2</sup>K) was achieved in GEMINI Passiv, using standard 68 mm wood cross-sections, known from other GEMINI systems.



#### **AVAILABLE DESIGNS:**

- Tilt & turn windows
- Fixed windows
- Mullions and transoms
- Removable mullions
- Tilt & slide windows (PSK)
- Facade connection profiles



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Designed for operation with intelligent buildings

#### ightarrow System features







# Heat transfer Uw coefficient for sample window 1.23x1.48 [m]

Uw [W/(m²K)]		Pine (λ=0.13 [W/(mK)]; ρ=500 [kg/m³])				Meranti (λ=0.12 [W/(mK)]; ρ=450 [kg/m³])				Spruce (λ=0.11 [W/(mK)]; ρ=450 [kg/m³])			
		68 [mm]	78 [mm]	88 [mm]	92 [mm]	68 [mm]	78 [mm]	88 [mm]	92 [mm]	68 [mm]	78 [mm]	88 [mm]	92 [mm]
Glazing 4/16/4/16/4	Ug=0.7 [W/(m²K)]	0.790	0.762	0.756	0.754	0.763	0.755	0.749	0.747	0.756	0.748	0.742	0.740