WINDOWSFACTORY
INNOVATIVE MANUFACTURER

GEMINI PASSIV

wood-aluminium system

The GEMINI Passiv is a wood-alu system for window con-structions designed for passive housing. Thanks to its high util ity and durability in the form of excellent ther-mal insula-tion, above average tightness, air permeability and wind load resistance, this system is suitable for modern, energy-saving and high performance buildings.

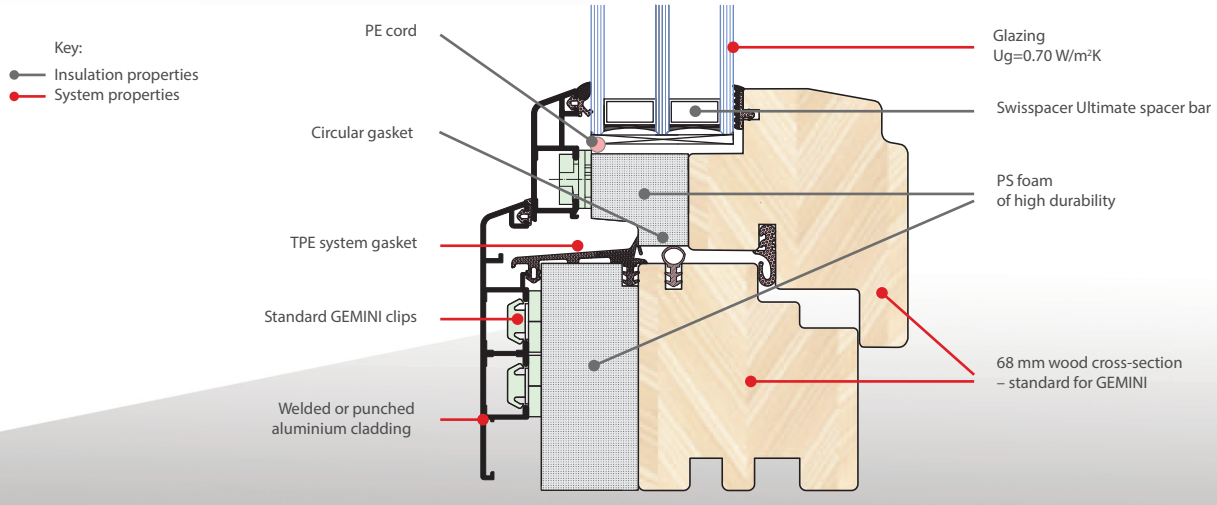
GEMINI Passiv, as a certified component of Passivhaus In stitut, meets its requirements for passive housing, that is: Uw 0,80 W/(m²K) in combination with triple-glazing Ug = 0.7 W/m²K.

The system utilizes innovative insulation material of high dura bility utilises on foamed PS, which shares the properties of wood. Thanks to its high level of rigidity, GEMINI clips can be screwed di rectly 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/(m²K)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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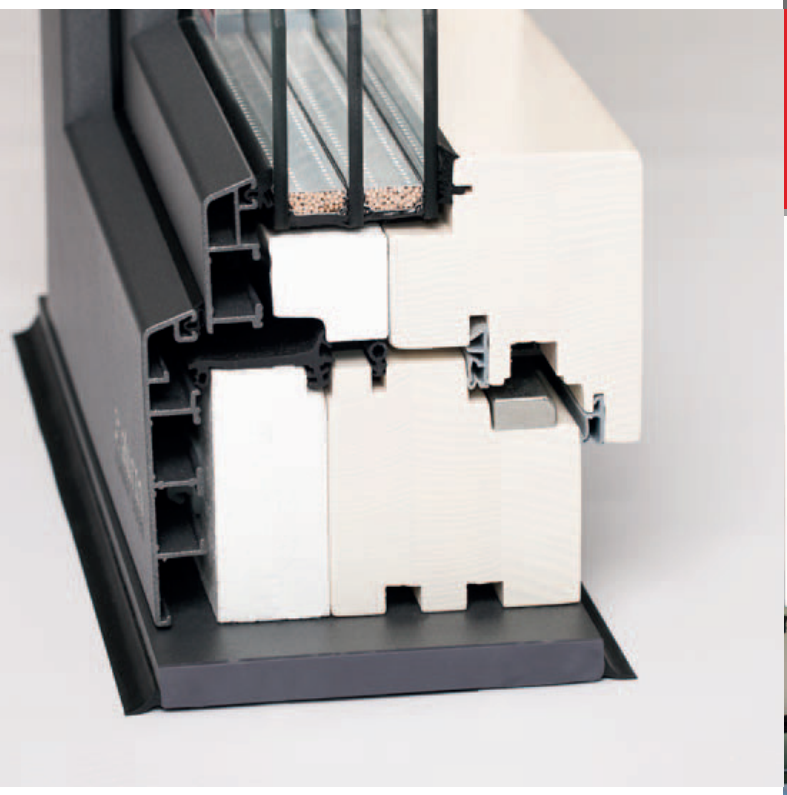

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System features

- Welded corner connections
- Crimped corner connections
- Certified wood section thickness 68 mm
- Certified glazing thickness 44 mm

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

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