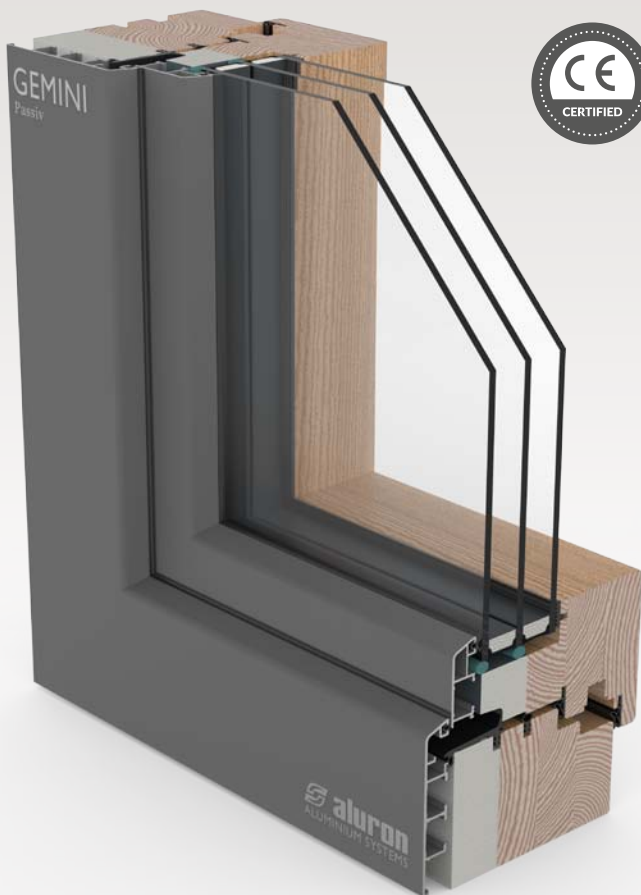


GEMINI PASSIV

wood-aluminium system for passive housing

The **Gemini Passiv** is a wood-alu system for window constructions designed for passive housing. Thanks to its high utility and durability in the form of excellent thermal insulation, above average tightness, air permeability and wind load resistance, this system is suitable for modern, energy-saving and high performance buildings.



SYSTEM FEATURES

Welded corner connections



Crimped corner connections



Certified wood section thickness 78 mm

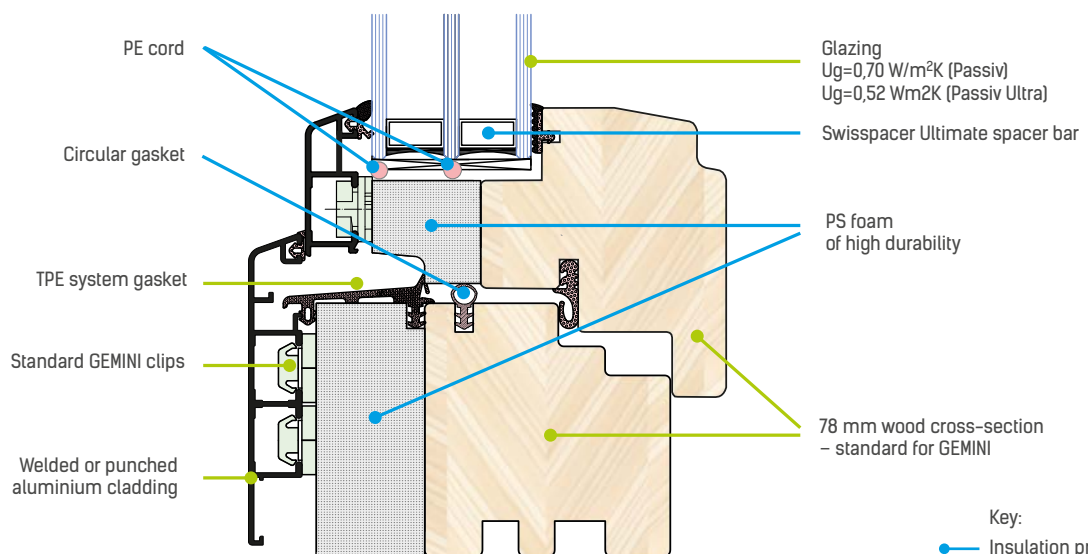


Certified glazing thickness 48 mm



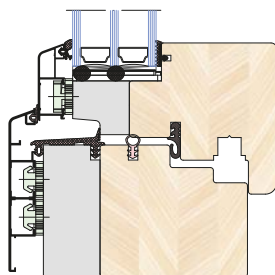
Gemini Passiv, as a certified component of Passivhaus Institut, meets its requirements for passive housing. That is Gemini Passiv $U_w \leq 0,80 \text{ W/(m}^2\text{K)}$ in combination with triple-glazing $U_g = 0.7 \text{ W/m}^2\text{K}$ for cool-temperate climate and Gemini Passiv Ultra U_w installed $\leq 0,65 \text{ W/(m}^2\text{K)}$ in combination with triple-glazing $U_g = 0.52 \text{ W/m}^2\text{K}$ for cold climate.

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

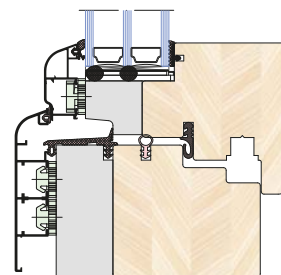




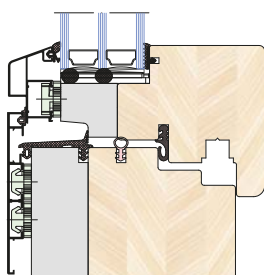
Available design variants:



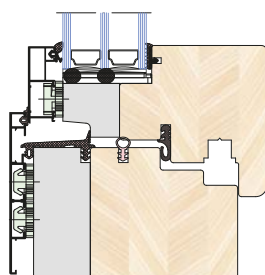
GEMINI Passiv Classic



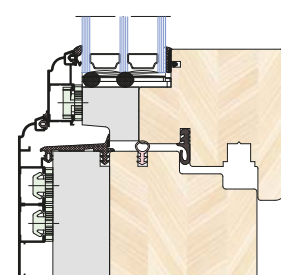
GEMINI Passiv Softline



GEMINI Passiv Linear



GEMINI Passiv Quadrat



GEMINI Passiv Retro

GEMINI PASSIV



GEMINI PASSIV ULTRA



Application: Cool, temperate climate
 Certified result $U_w = 0.76 \text{ W/(m}^2\text{K)}$
 Criterion $U_w \leq 0.80 \text{ W/(m}^2\text{K)}$
 For $U_g = 0.7 \text{ W/m}^2\text{K}$



Application: Cold climate
 Certified result $U_w = 0.63 \text{ W/(m}^2\text{K)}$
 Criterion $U_w \text{ installed} \leq 0.65 \text{ W/(m}^2\text{K)}$
 For $U_g = 0.52 \text{ W/m}^2\text{K}$

The window U-values were calculated for the test window size of 1.23 m × 1.48 m with $U_g = 0.70 \text{ W/(m}^2\text{K)}$. If a higher quality glazing is used, the window U-values will improve as follows:

The window U-values were calculated for the test window size of 1.23 m × 1.48 m with $U_g = 0.52 \text{ W/(m}^2\text{K)}$. If a higher quality glazing is used, the window U-values will improve as follows:

$U_g =$	0,70	0,64	0,58	0,52	$\text{W/(m}^2\text{K)}$
	↓	↓	↓	↓	
$U_w =$	0,76	0,72	0,68	0,64	$\text{W/(m}^2\text{K)}$

$U_g =$	0,52	0,66	0,58	0,50	$\text{W/(m}^2\text{K)}$
	↓	↓	↓	↓	
$U_w =$	0,62	0,72	0,66	0,61	$\text{W/(m}^2\text{K)}$

