

GEMINI QUADRAT FB

wood-aluminium windows

Gemini Quadrat FB systems have distinct profile edges, similar to the Quadrat system. The FB version is distinguished by its flushed sash which visually creates a unified surface. The special shape of the aluminium sash, which shifts the windowpane 15 mm further forward as in more conventional designs, allows for the use of broader glazing with a thinner wood cross-section. Quadrat FB lacks a visible slant and there is a right angle on the surface of its profiles.






MODERN SYSTEM, MINIMALISTIC DESIGN

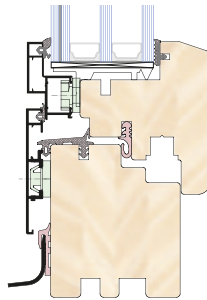
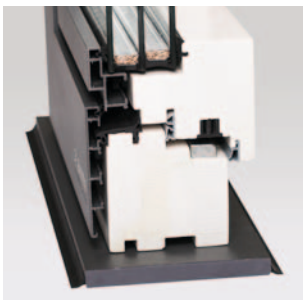
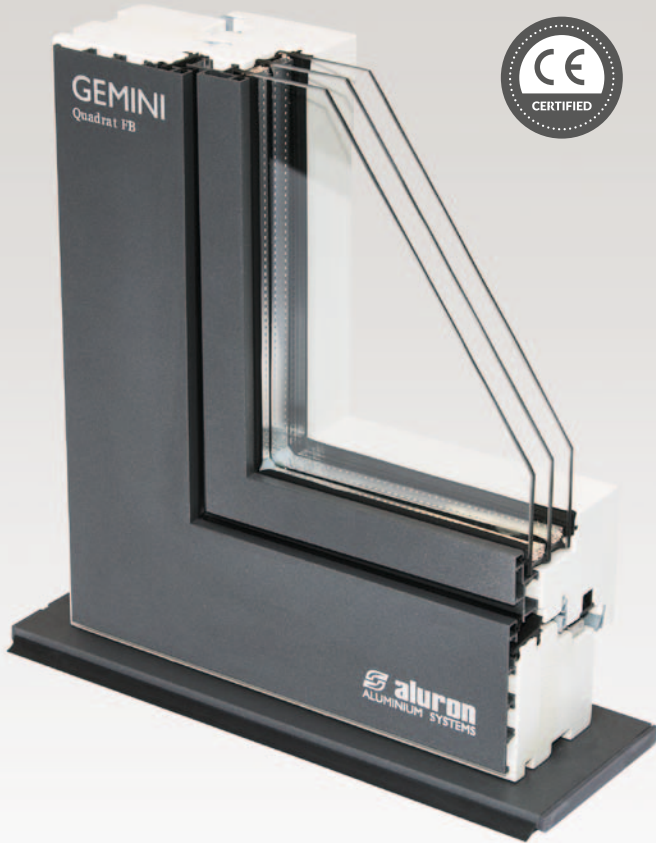
Much like other GEMINI systems, Quadrat FB stands out with high functionality and excellent utility properties. Application: windows, doors, facade elements and winter gardens.

AVAILABLE CONSTRUCTIONS:

- Tilt & turn windows
- Fixed windows
- Tilt & slide windows (PSK)
- Arc windows
- Mullions and transoms
- Removable mullions
- Construction crosspieces
- Balcony doors
- HS sliding doors
- Inward opening doors
- Outward opening doors
- Facade connection profiles

→ System features

Welded corner connection	
Mechanical corner connection	
Wood section thickness 68–92 mm	
Glazing thickness 24–64 mm	
Sash and frame profile bending	



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

U_w [W/(m ² K)]		Pine ($\lambda=0.13$ [W/(mK)]; $\rho=500$ [kg/m ³])				Meranti ($\lambda=0.12$ [W/(mK)]; $\rho=450$ [kg/m ³])				Spruce ($\lambda=0.11$ [W/(mK)]; $\rho=450$ [kg/m ³])			
		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	$U_g=1.1$ [W/(m ² K)]	1.295	1.267	1.246	1.239	1.271	1.244	1.226	1.219	1.246	1.222	1.202	1.196
	$U_g=1.0$ [W/(m ² K)]	1.236	1.208	1.187	1.179	1.212	1.185	1.164	1.157	1.186	1.161	1.141	1.134
Glazing 4/16/4/16/4	$U_g=0.7$ [W/(m ² K)]	0.986	0.956	0.932	0.924	0.963	0.934	0.912	0.904	0.939	0.912	0.890	0.882
	$U_g=0.5$ [W/(m ² K)]	0.863	0.833	0.809	0.801	0.840	0.811	0.788	0.780	0.816	0.788	0.766	0.761