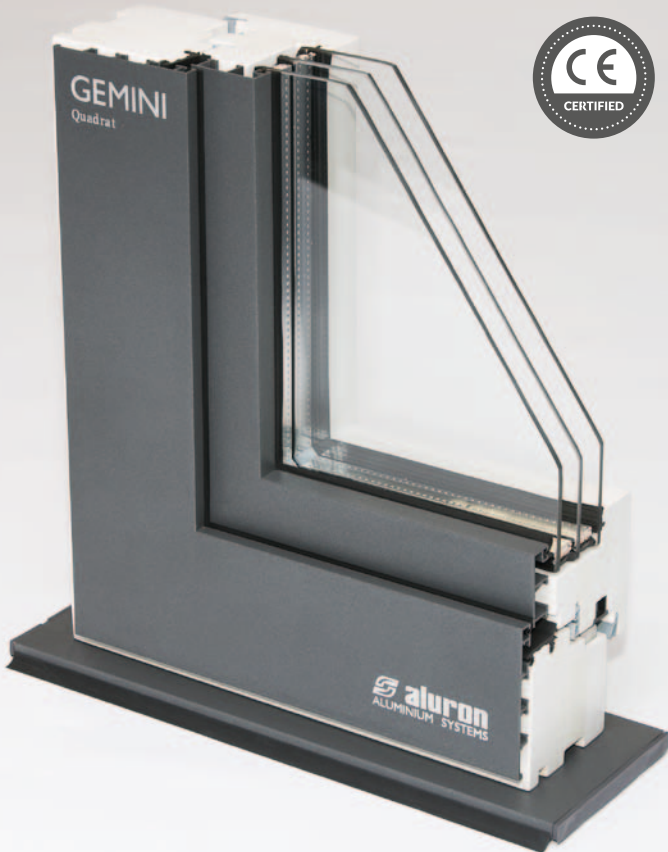


GEMINI QUADRAT

wood-aluminium windows

The Gemini Quadrat systems have distinctive profile edges, with the sash shifted away from the frame and thus creating two distinct surfaces. The Quadrat is distinguished by its minimalistic and geometrical design, crucial in modern architecture where glass, concrete, aluminium and steel is the standard. Its uniqueness is further magnified by the lack of a visible slant, resulting in a right angle visible on the surface of Quadrat profiles.



STRAIGHT/SIMPLE LINES AND GEOMETRIC SHAPES

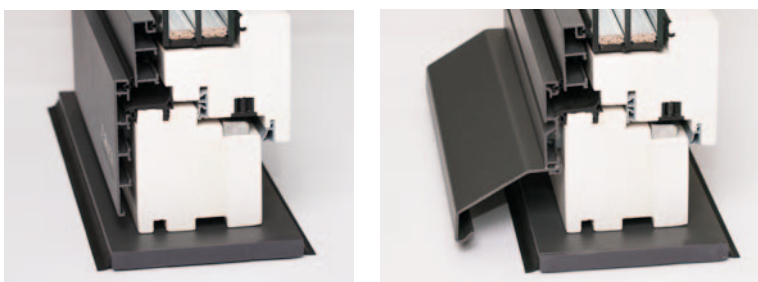
Much like other GEMINI systems, the Quadrat stands out with high functionality and remarkable utility properties. Application: windows, doors, facade elements and winter gardens.

AVAILABLE CONSTRUCTIONS:

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

→ 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)]	1.256	1.226	1.203	1.195	1.232	1.204	1.181	1.173	1.208	1.180	1.158	1.151
	$U_g=1.0$ [W/(m ² K)]	1.194	1.164	1.141	1.133	1.171	1.142	1.119	1.111	1.147	1.119	1.097	1.090
Glazing 4/16/4/16/4	$U_g=0.7$ [W/(m ² K)]	0.964	0.931	0.905	0.896	0.942	0.909	0.884	0.876	0.919	0.887	0.863	0.855
	$U_g=0.5$ [W/(m ² K)]	0.841	0.807	0.781	0.773	0.819	0.786	0.761	0.752	0.795	0.764	0.739	0.731