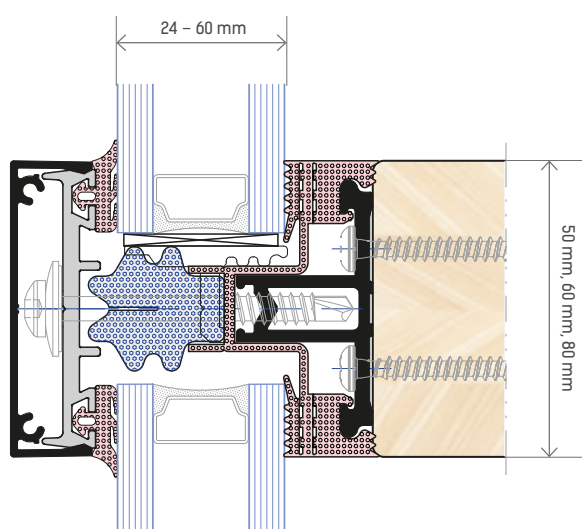


→ VELLA

mullion and transom system



Vella cross-section range
Vella glazing range

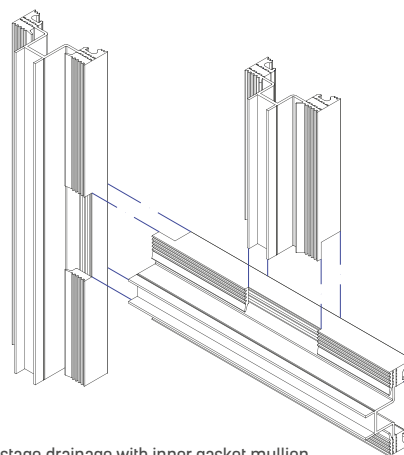
Vella is a wood-alu system, based upon mullion and transom constructions, suited for facades and winter gardens. The support structures for this system are from wooden mullions, 50, 60 or 80 mm thick, with their depth depending on static calculation. The Vella system consists of a wide range of aluminium profiles, gaskets and insulators. It ensures durable glazing mounting, unusual tightness, and high thermal parameters as well as guarantees perfect protection for wood. The glazing range for this system is between 9 and 60 mm.

SYSTEM FOR FACADES AND WINTER GARDENS

This solution perfectly combines the colour application, durability and weather resistance of aluminium with an aesthetic wooden interior. The **Vella** system ideally suits modern spatial architecture. Its properties include high level versatility, complementing different architectural styles as well as high functionality without the need for frequent conservation.

→ System features

- Wood cross-section thickness: 50, 60, 80 mm
- Glazing thickness: 9 mm - 60 mm
- 3-stage drainage
- Wooden cover strip available
- Complete gutter system
- Possible profile bending (for 50 mm transom only)



3-stage drainage with inner gasket mullion

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

U_w [W/(m ² K)]		Vella 50	Vella 60	Vella 80
Glazing 5/16/5	$U_g=1.1$ [W/(m ² K)]	1.223	1.223	1.194
	$U_g=1.0$ [W/(m ² K)]	1.136	1.135	1.108
Glazing 4/16/4/16/4	$U_g=0.7$ [W/(m ² K)]	0.796	0.807	0.791
	$U_g=0.5$ [W/(m ² K)]	0.616	0.627	0.614

→ VELLA S

mullion and transom system

Vella S – in response to the desire of architects to create a visual impression of a completely glass-fronted building structure, ALURON developed its wood-alu facade construction using structural glazing. Specific binders selected by Dow Corning allow for long-term warranty, provide structure tightness and protect against UV radiation and exposure to high temperature. Vella S is distinguished by its unique aesthetics, light build impression and highly adaptive capacity in modern building.

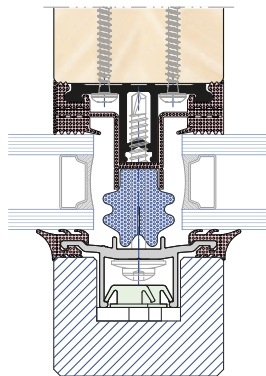
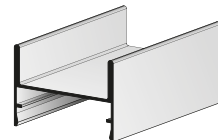
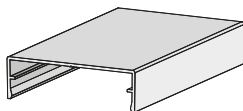
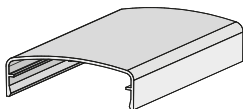
FACADE WITH STRUCTURAL GLAZING TECHNOLOGY

THERE ARE 3 WAYS OF FIXING GLASS IN THE VELLA S SYSTEM:

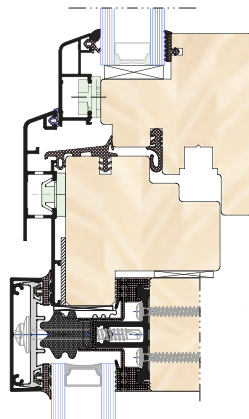
- Inner glazing grip
- Glued frame grip
- Point connection to embedded fasteners

Glazing range in this system is up to 62 mm. Additionally, the system utilises high thermal and insulation solutions. Vella S presents modern design and aesthetics.

Shapes of external coverings



Vella – wooden strip version



Vella S – the inclusion of GEMINI window in Vella facade