

Characteristics of design

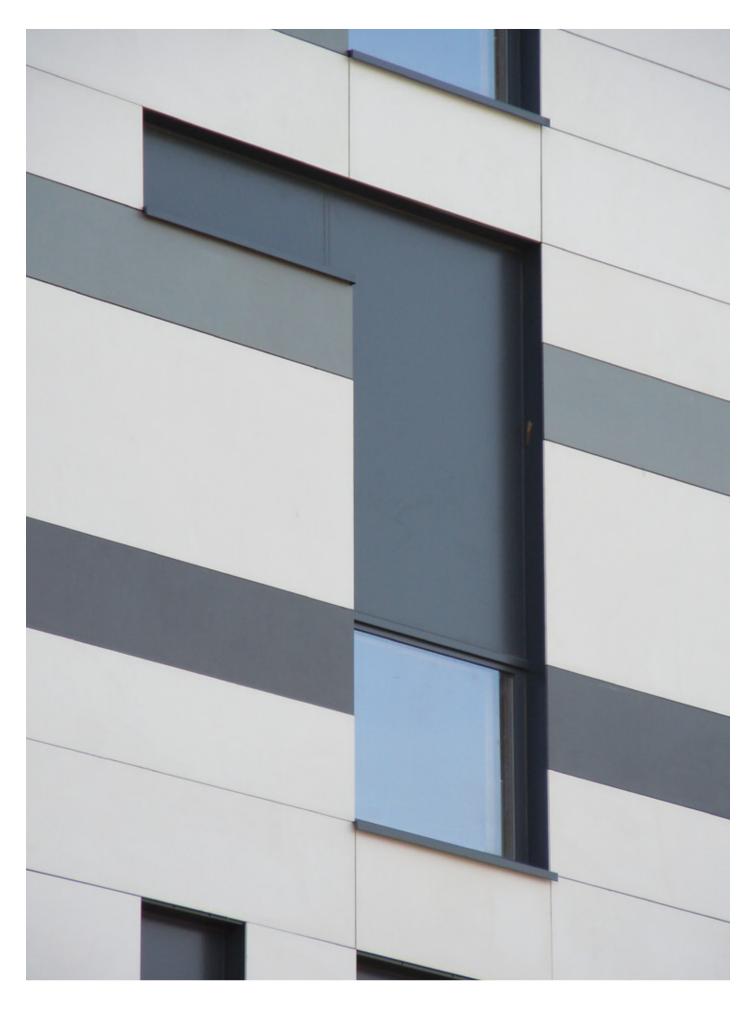
Research has shown the most acceptable light intensity to the human eye is that the of twilight and that brightly lit spaces diminish the experience of the interior. The phenomenon of glare is considered visual noise in the literature. However, there is no precisely defined maximum intensity of light in space, rather regulating it is left to the skill of architects or consumers. By using various window shading systems, the desired light level can be adjusted. The spatial relationship between the window and the shading element defines the depth of the facade.

Architectural tendencies that promote clean, shallow relief forms do not leave much room for combining these two systems. Vizus finds the solution in integrating the shading system into the window system by designing Vizus AT + sun control.

The particularity of the design is in the fact that the window is viewed as a single-sash unit that can be multiplied on the facade in the horizontal or vertical directions. In this way, Vizus AT + sun control corresponds to the aesthetics of highly precise, modular architectural facades.



University Campus Suffolk-Ipswitch/primenjeni sistem Vizus AT80



Vizus AT+sun control / AT80 i AT96

The Vizus AT + sun control window system, in addition to all the standard features, is also characterized by the possibility of controlling the amount of daylight in the room. It is formed of aluminum profiles with a thermal break and solid wood paneling on the interior side. The window assembly features a 1 + 2 and 1 + 3 glazing system, which enables the placement of venetian blinds in the space between the single outer and thermal insulation glass, with a maximum width of 15 mm. For maintenance purposes, it is possible to open the external glazing in the open window position, according to the sash-to-sash system. The wood paneling, made of industrially joined frames, of impeccable workmanship and surface finish, is a great contribution to the comfort and warmth of the interior.

The use of double and triple thermopane glass determines both the base width of the window system and the value of the heat transfer coefficient.

Vizus AT80

Base width of the system 80mm glazing 1+2

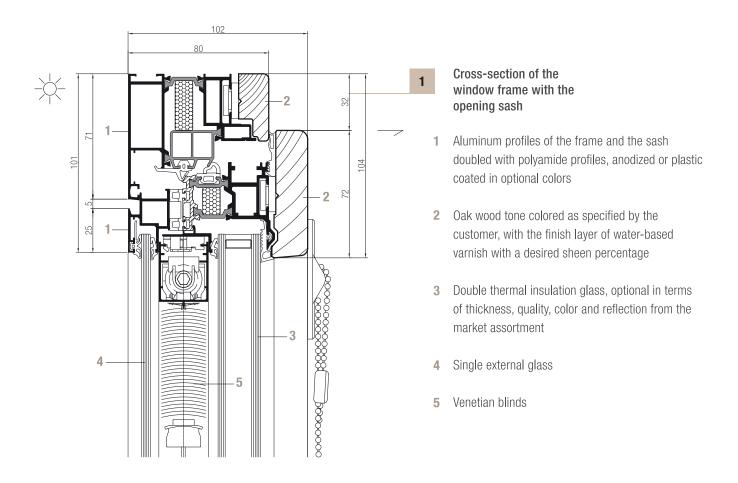
heat transfer coefficient Uf=1.75W/m²K

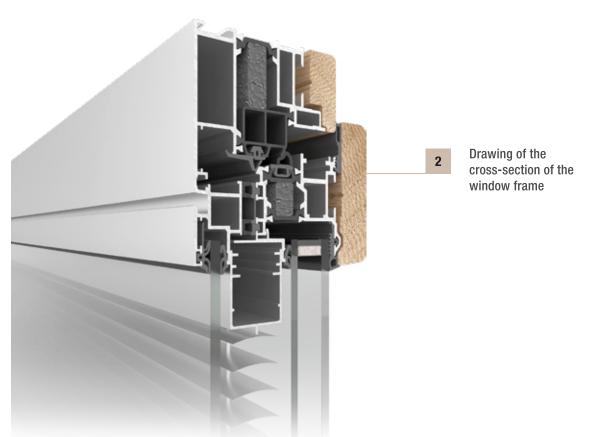
Vizus AT96

Base width of the system 96mm glazing 1+3 heat transfer coefficient Uf=1.40W/m²K

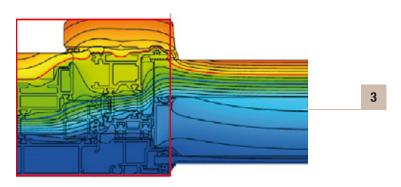


Composite system components:





Vizus **AT+sun control**



WinIso® 2.7.5. © Sommer Informatik GmbH, registred for Vizus d.o.o.

Frame thermal conductivity coefficient

Uf=1,75W/m2K

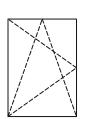
View of isotherms in the cross section of the window frame

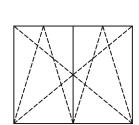
*thermal conductivity coefficient on the window of certain dimensions when using the double glazing Ug=1.0W/m²K and WE spacer bars:

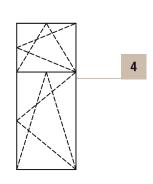
dim. 1230 x 1480mm Uw=1.12W/m²K

*thermal conductivity coefficient on the window of certain dimensions when using the double glazing Ug=1.1W/m²K and WE spacer bars:

dim. 1230 x 1480mm Uw=1.22W/m²K



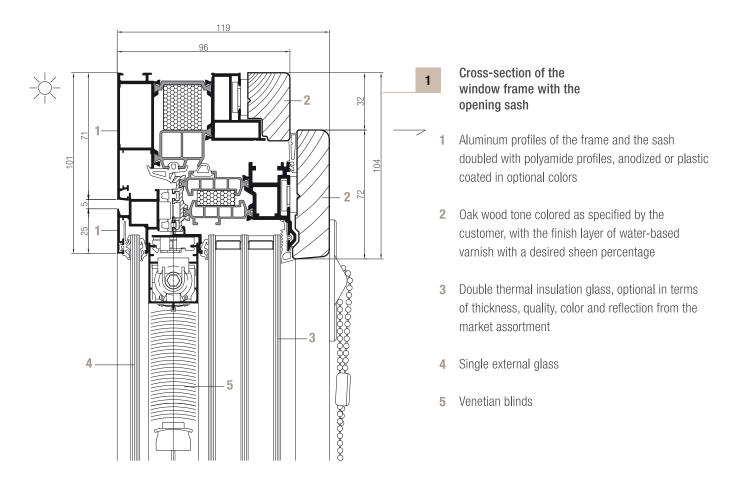


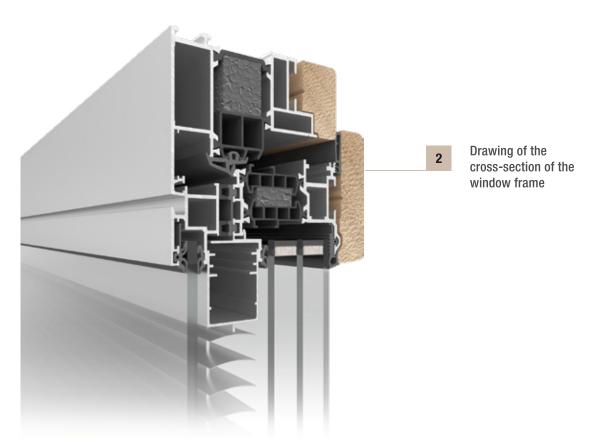


Optional window schemes

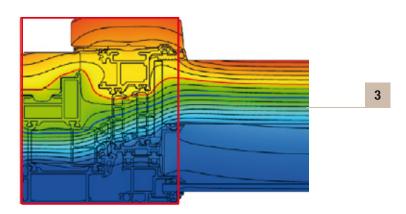
The standard offer comprises MACO or ROTO hardware, with visible hinges, and Hoppe Toulon handle

Composite system components:





Vizus **AT+sun control**



Winlso® 2.7.5. © Sommer Informatik GmbH, registred for Vizus d.o.o.

Frame thermal conductivity coefficient

Uf=1.40W/m²K

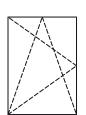
View of isotherms in the cross section of the window frame

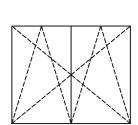
*thermal conductivity coefficient on the window of certain dimensions when using the triple glazing Ug=0.5W/m²K and WE spacer bars:

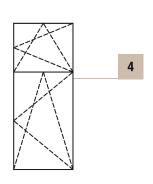
dim. 1230x1480 Uw=0.85W/m²K

*thermal conductivity coefficient on the window of certain dimensions when using the triple glazing Ug=0.6W/m²K and WE spacer bars:

dim. 1230x1480 Uw=0.93W/m²K

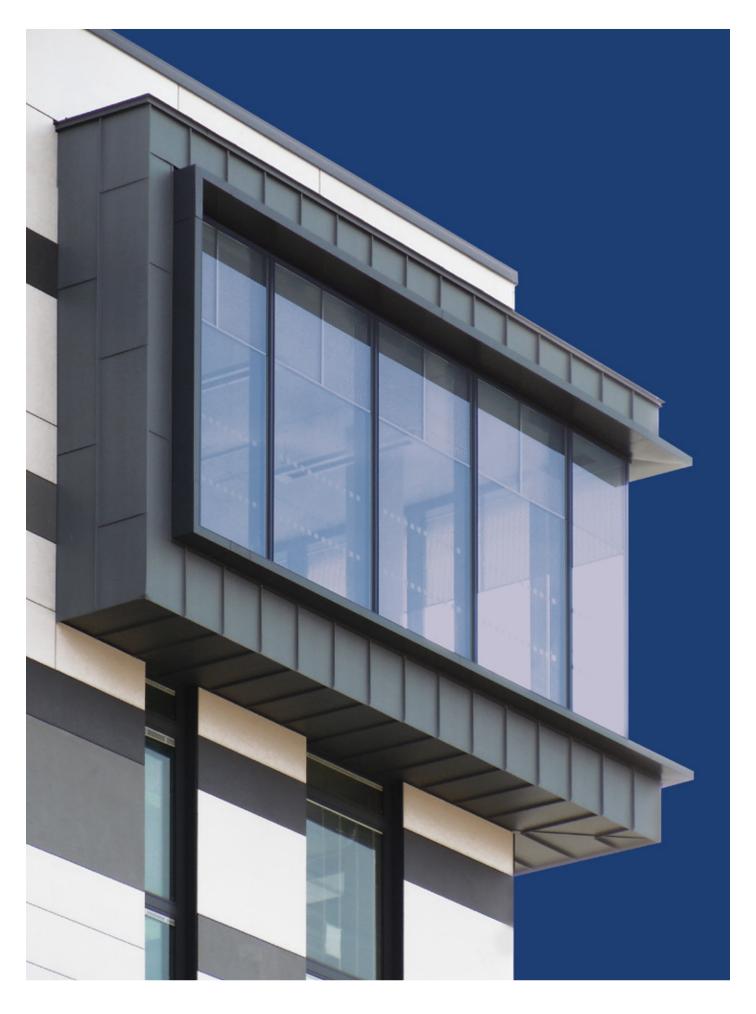






Optional window schemes

The standard offer comprises MACO or ROTO hardware, with visible hinges, and Hoppe Toulon handle



Vizus **AT+sun control**

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WINDOWS AND TERRACE DOORS

Vizus AT + sun control

integrating the shading system into the window system





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