Glazing

For the simulations, reference double glazing according to Annex A of EN 14501 standard were used. Their nomenclature and properties are listed below.

Thermal properties of reference glazing

Glazing	Composition	Thermal properties of the glazing					Optical properties of panes									
							Outer pane					Inner pane				
		U	g	τ_e	ρ_e	ρ'_e	τ_e	ρ_e	ρ'_e	ε	ε'	τ_e	ρ_e	ρ'_e	ε	ε'
B	4/12(air)/4	2,9	0,76	0,69	0,14	0,14	0,83	0,08	0,08	0,84	0,84	0,83	0,08	0,08	0,84	0,84
Clear double glazing																
C	4/16(argon)/4	1,2	0,59	0,49	0,29	0,27	0,83	0,08	0,08	0,84	0,84	0,58	0,30	0,24	0,05	0,84
Double glazing with low emissivity coating in position 3 (outer surface of the inner pane)																
D	4/16(argon)/4	1,1	0,32	0,27	0,29	0,38	0,32	0,28	0,42	0,84	0,04	0,83	0,08	0,08	0,84	0,84
Reflective double glazing with low emissivity coating in position 2 (inner surface of the outer pane)																

With: U, thermal transmittance (W/m²K)
g, solar factor
τ_e, solar transmittance
ρ_e, solar reflectance, external pane
ρ'_e, solar reflectance, internal pane
ε, emissivity, external pane
ε', emissivity, internal pane