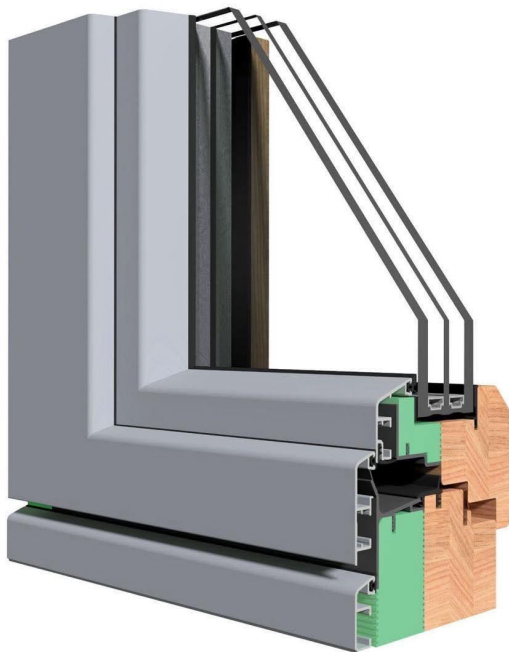


NOBIL THERM SYSTEM

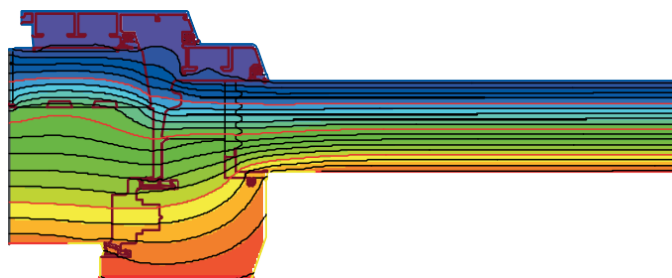
NOBILTHERM is a system of XPS (polystyrene) profiles with high thermal insulation inserted between wood and aluminum. With NOBILTHERM is possible to realize a passive window starting from a wood thickness of 68 mm.



Thermal transmittance values U_w

$U_g (W/m^2K)$	Soft Wood ($\lambda=0,130 W/mK$)	Hard Wood ($\lambda=0,180 W/mK$)
0,5	$U_w = 0,68 W/m^2K$	$U_w = 0,78 W/m^2K$
0,6	$U_w = 0,78 W/m^2K$	$U_w = 0,88 W/m^2K$
0,7	$U_w = 0,88 W/m^2K$	$U_w = 0,95 W/m^2K$
0,8	$U_w = 0,9 W/m^2K$	$U_w = 1,0 W/m^2K$
0,9	$U_w = 0,95 W/m^2K$	$U_w = 1,0 W/m^2K$
1,0	$U_w = 1,0 W/m^2K$	$U_w = 1,1 W/m^2K$
1,1	$U_w = 1,1 W/m^2K$	$U_w = 1,1 W/m^2K$
1,2	$U_w = 1,1 W/m^2K$	$U_w = 1,2 W/m^2K$
1,3	$U_w = 1,15 W/m^2K$	$U_w = 1,2 W/m^2K$

Hardware	Visible or hidden AGB, Italy
Gaskets	TP-S tri-extruded, EPDM co-extruded (outside)
Glass thickness	Double or triple glazing up to 65 mm, in different variations of glass type and thickness
Aluminium	Anodic oxidation painting with wood, RAL or special decors. Connection at 90 degrees or welded.
Wood	Triple layered, finger join or continuous fiber Opaque, transparent painting with water-based products or hydroil products. RENNER, Italy Wood species: oak, pine, ash, larch, walnut.
Thermosystem	40 mm XPS thermal insulation up to 0.059 $W/(m^2K)$



Acoustic insulation	R_w up to 43 dB
Security hardware	Up to RC 2
Air permeability	CLASS 4
Water tightness	CLASS 9A
Wind load resistance	CLASS C4

Frame section wood+aluminium	124,5x86 mm
Sash section wood+aluminium	123,5x76 mm