

# Product Card



## Thermo80 Timber and Timber/Aluminium Clad Windows

➤ Certificate PAS 24    ➤ FSC® (FSC® C003983)



Thermo80  
Double glazing unit (inner view)



Thermo80 Alu Quadrat  
Triple glazing unit (outer view)



Thermo80  
Triple glazing unit (outer view)



Thermo80 Alu Classic  
Triple glazing unit (inner view)



Thermo80 Alu Quadrat  
Triple glazing unit (inner view)



Water-tightness = Class 9A



Overall U-value = 0,9 W/m<sup>2</sup>K



Air Permeability = Class 4



Resistance to wind load = Class C5



# Thermo8o

**Product** Sokolka Alu-Timber Tolt & Turn windows and terrace doors manufactured to our standard sectional detail, complete range of inward opening windows, fixed frames, terrace doors with maintenance aluminum outside and timber on inside.

## Construction

**Wooden frame** Cross laminated timber 3 layers in thickness. External layer solid (without finger joint) or laminated to length (finger joint). Timber frame 80mm; with aluminum clad 91,5mm.

**Material** Timber types: pine, meranti and oak. Our windows are made of wood – a natural material of the best quality. The material is carefully selected and dried. Upon request, we put the FSC® (FSC®C0038983) logo on the products made of pine to confirm that the wood is traceable to a sustainably managed forest.

**Aluminum cladding** Aluminum clads from outside. An aluminum cladding protects all external surfaces. A robust fixing system using synthetic clips ensures that the aluminum cladding is not in direct contact with the timber allowing ventilation and drainage in all necessary areas.

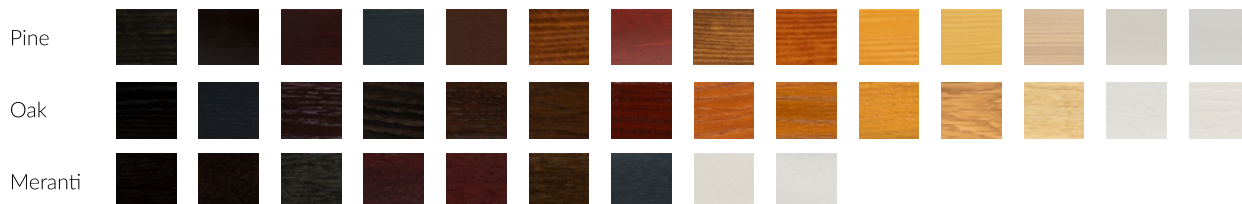
**Glass unit** Double or triple with a warm TGI black spacer bar or Multitech black spacer bar, low-emission glass, available glass: safety laminated class 2b2, toughened, security class P2 and P4, selective – limiting the penetration of solar energy, reflexive, ornamental, opaque.

- Triple glazed unit: up to -  $U_g=0,6 \text{ W}/(\text{m}^2\text{K})$  - width 40mm , Double glazed unit: up to -  $U_g=1,1\text{W}/(\text{m}^2\text{K})$  - width 24mm

**Parameters** Heat transfer coefficient:  
- triple glazed windows  $U_w=0,9 \text{ W}/\text{m}^2\text{K}$   
- double glazed windows  $U_w=1,2 \text{ W}/\text{m}^2\text{K}$   
Acoustic parameters  $R_w=32-41\text{dB}$  (depending on the chosen glass unit)

## Finish

**Paint** Fully factory finish systems:  
- RAL palette colours  
- transparent colours with visible wood structure



**Aluminum cladding** Powder coated in RAL colours + AKZO NOBEL Interpon Collection Futura 2018-2021

## Fittings

**Type** SIEGENIA TITAN AF, envelope fittings with anti-burglary hook and micro-ventilation.

**Optional** Hidden hinges SIEGENIA AXXENT 24, TBT - tilt before turn, anti-burglary fittings class RC2

**Opening options** Tilt&turn, turn, tilt, tilt&slide.

**Additional functions** Opening restrictor, multi-level tilting, anti-burglary fittings, HAU TAU closing system allows to tilt upper sash from the floor level.

## Accessories

**Standard** Handles, micro ventilation, handle turning restrictor, anti-theft fittings hook, thermo drip cap, warm Thermix edge inside glass units.



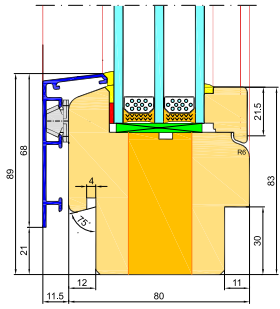
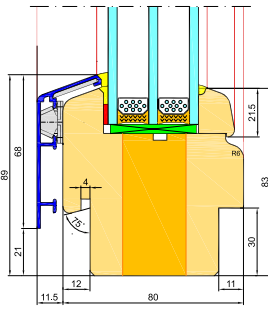
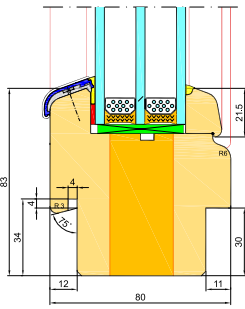
**Optional** Vents, bars, different kinds of glass, additional fittings options, balcony doors with low threshold, tilt & slide doors, accessories as sills, mosquito nets, roller shutters.

Thermo80

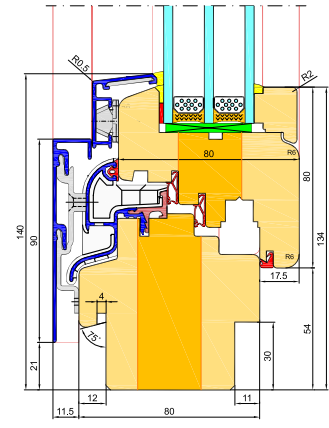
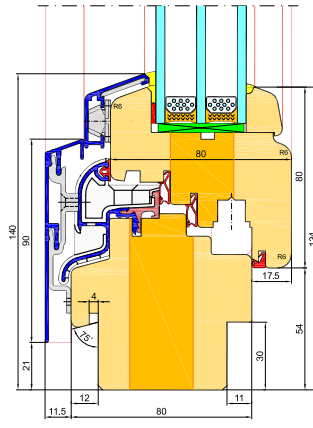
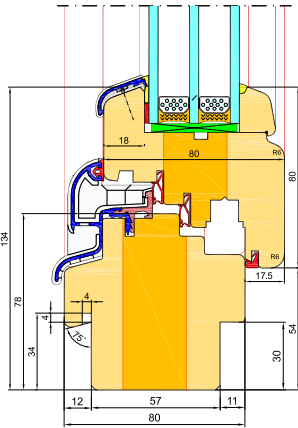
Thermo80 Alu Classic

Thermo80 Quadrat

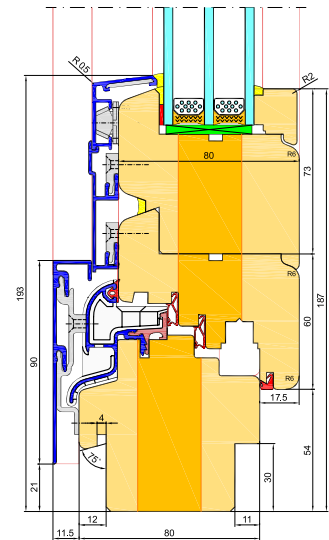
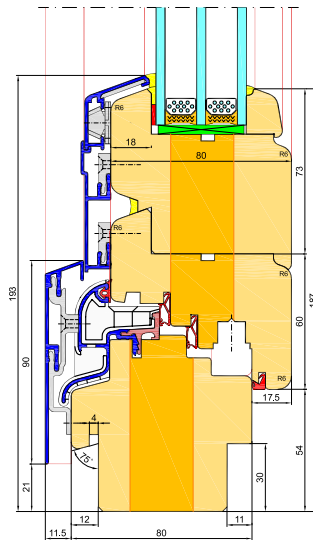
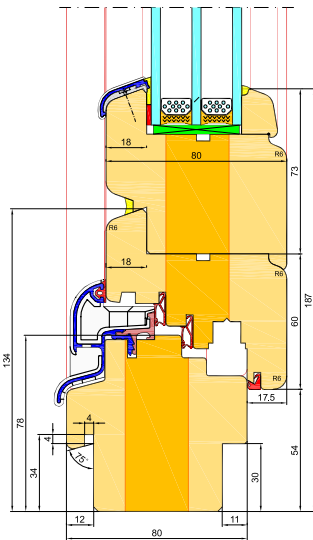
Fixed glazing cross section



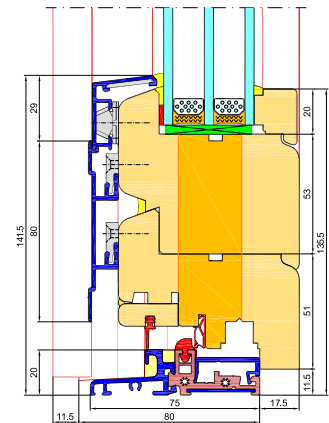
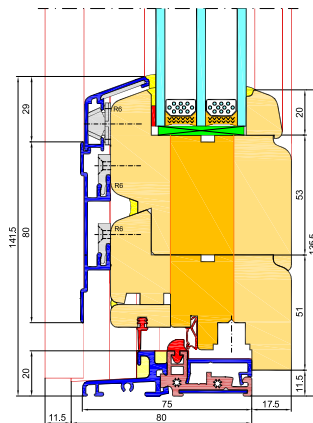
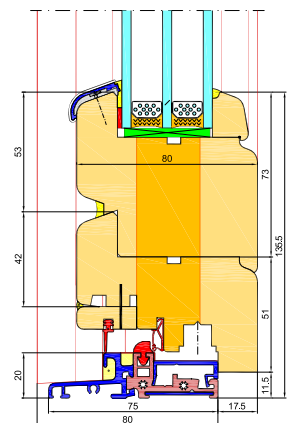
Section opening window


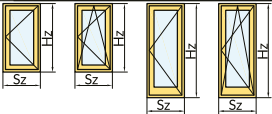
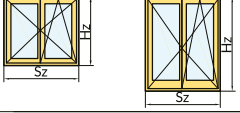

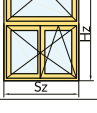
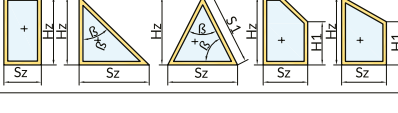


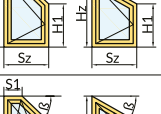
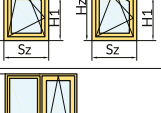
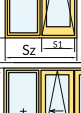
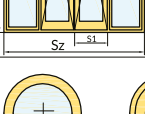

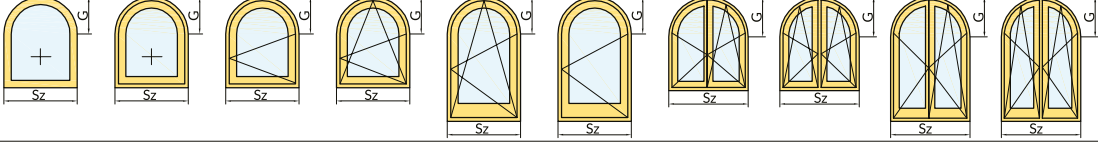
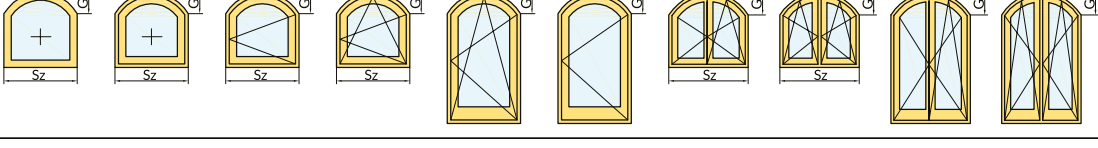


Section threshold of balcony doors



Section low threshold of the balcony door



Window type	Window width		Window height		Angle	Item width		Item height	Arc height
	Sz minimum	Sz maximum	Hz minimum	Hz maximum	$\beta$ minimum	S1 minimum	S1 maximum	H1 minimum	G
	STYLE68	450	2400	450	1550				
	STYLE68 ALU	450	2400	450	1550				
	STYLE68	470	1470	550	2700				
	STYLE68 ALU	470	1470	550	2700				
	STYLE68	850	2470	550	2700				
	STYLE68 ALU	850	2470	550	2700				
	STYLE68	850	2570	550	2700				
	STYLE68 ALU	850	2570	550	2700				
	STYLE68	850	2400	1150	3400				
	STYLE68 ALU	850	2400	1150	3400				
	STYLE68	300	2700	300	2700	32°	300		300
	STYLE68 ALU	300	2700	300	2700	35°	300		6h0
	STYLE68			690		32°			
	STYLE68			600		32°	600		
	STYLE68			550		32°	320		500
	STYLE68			550	800	32°	320		500
	STYLE68	1710	3700	1130	2700		810	2030	
	STYLE68 ALU	1710	3700	1130	2700		810	2030	
	STYLE68	2900	3700	1130	2700		710	1640	
	STYLE68 ALU	2900	3700	1130	2700		710	1640	
	<p>Arched windows are available in a timber version without an aluminium clad. It is possible to make FIX arched windows with aluminium clad - confirmed by the Sokolka technology department. The detailed dimension range of arched windows requires confirmation by the Sokolka technology department.</p>								
									G = 1/2Sz
									G < 1/2Sz

The maximum dimensions may be limited after exceeding the maximum permissible sash weight. Other dimensions can be made after confirmation with the technology department.