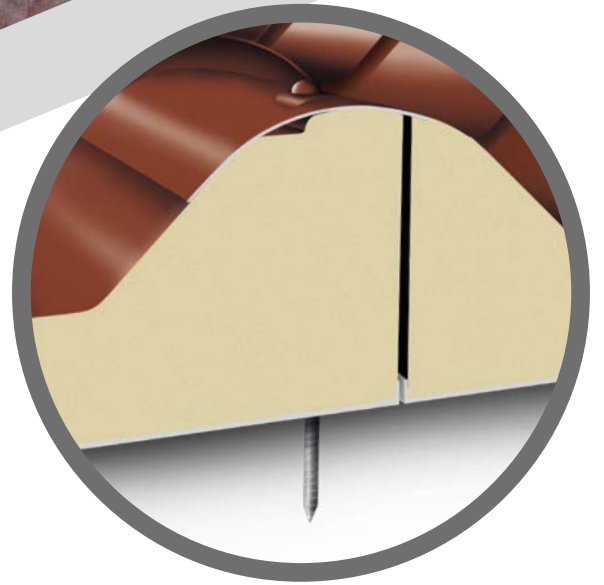




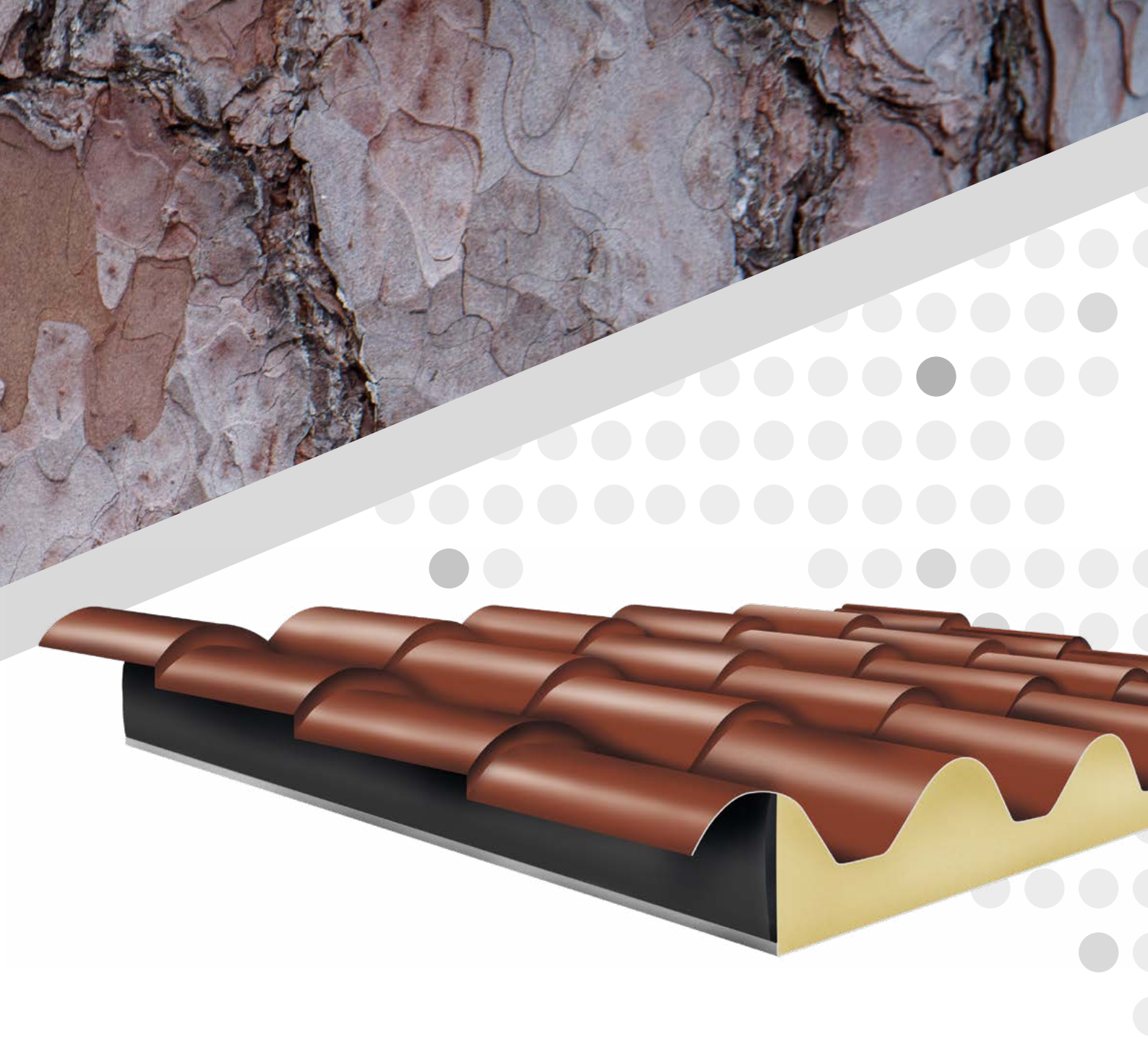
COVERINGPANELS



CORTEX MONO

THE ECONOMICAL SOLUTION
FOR CIVIL ROOFS

CORTEX MONO by **SILEX** is the *most economic version* of Cortex panel, destined to residential roofs where *thermal insulating* performances must be combined with load-bearing functions and atmospheric agents, without giving up to functionality and *aesthetic values of traditional roofing*.



Cortex Mono by Silex is a metallic panel with the particular tiled shape (wave) and because of that it is particularly appreciated in areas where constructions must respect special environment restrictions: tile's external finishes, with a natural or old looking aspect, are obtained with a special painting technology in coil-coating which guarantees the aesthetic performance of the panel in years.

In this panel, the inner metallic support is substituted by a flexible material, therefore it is not recommended for roofs with internal surface in view as it does not guarantee the aesthetic perfection of the inner side.

Cortex Mono by Silex is indicated when panels are installed on a wooden support or a base, otherwise if standing sup-

ports are almost continuous.

The inner finish of Cortex Mono is offered with an embossed centesimal aluminium coating, in a natural colour or varnished white (on request), in paper-felt or with a PVC coating. The several thicknesses of metal sheets used on the external side create the weight – bearing features of the panel itself which can be realized in galvanized steel, aluminium and other metals, while the wide range of coatings and finishes, that can be adopted on the panel, allow to get different aesthetical solutions.

The wide range of polyurethane thicknesses, PUR or PIR, ensures the achievement of important insulating results, with very low certified values of thermal transmittance.



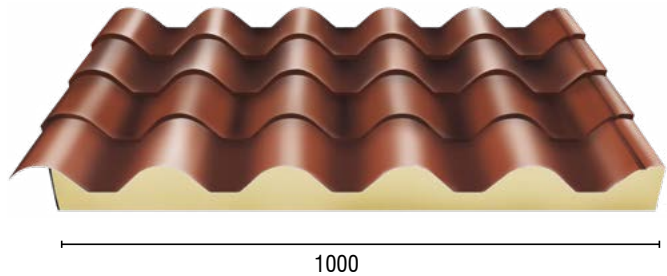
CORTEX MONO

USEFUL WIDTH

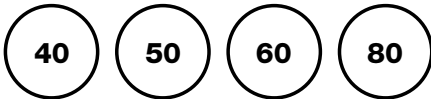
1000 mm

MAXIMUM LENGTH

13650 mm



THICKNESSES AVAILABLE



METAL SHEETS AVAILABLE

Silex panels can be produced with the following metal sheets: galvanized steel, alu-zinc steel, stainless steel, aluminium, copper and other metal sheets. The use of aluminium and copper sheets needs more attention during the installation of the panels because of the high coefficient of thermal expansion typical of these kind of metals.

Metal sheets supplied by Silex are produced by primary steelworks and are painted with the coil coating method, using a coating cycle homologated by Silex with the purpose of guaranteeing the durability of panels, fit for the purpose of use, and of the coating product used, which can be made of basic or high durability polyester, polyurethane, polyamide, plastisol or PVDF.

Silex offers some standard colours during his coating cycles with the purpose of offering and adequate service to its customers. Special colours can be made under request.

DIMENSIONAL TOLERANCES mm

Length	L ≤ 3 m	+/- 10 mm
	L > 3 m	+/- 20 mm
Useful width	+/- 2 mm	
Thickness	D ≤ 100 mm	+/- 2 mm
	D > 100 mm	+/- 2%
Perpendicular deviation	0,6 %	
Inner metallic parameters misalignment	+/- 3 mm	
Inferior sheets match	F = 0 + 5 mm	

L stands for LENGTH, D stands FOR PAnels thickness and F STANDS FOR MEtal sheets match

Panel lengths available from 2.100 to 13.650 mm

EXAMPLE:

Panel Length	2.100 mm	N°5 Full tiles + (70+280)
Panel Length	5.250 mm	N°14 Full tiles + (70+280)
Panel Length	5.950 mm	N°16 Full tiles + (70+280)
Panel Length	6.650 mm	N°18 Full tiles + (70+280)
Panel Length	7.350 mm	N°20 Full tiles + (70+280)
Panel Length	8.050 mm	N°22 Full tiles + (70+280)
Panel Length	13.300 mm	N°37 Full tiles + (70+280)

Panels with a length superior to 8.050 mm require particular care during handling

PUR INSULATION

Made of polyurethane resins (P.U.R.) , free from CFC and HCFC , approximate density 35-40 kg/m³ and in any case as indicated in the EU conformity declaration and laboratory tests.

Thermal conductivity coefficient at 10° C degrees (UNI EN 12667) : 0,020-0,0.

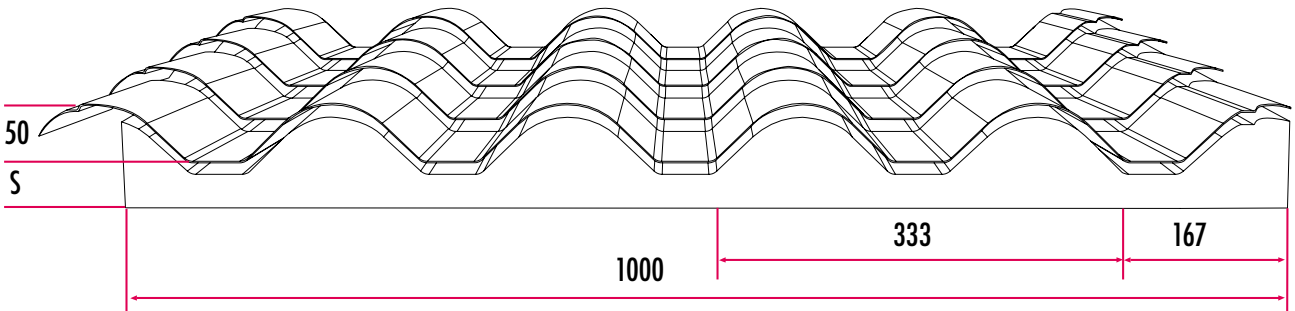
PIR INSULATION

Made of polyisocyanurate free from CFC and HCFC, approximate density 35-40 kg/m³ and in any case as indicated in the EU conformity declaration and laboratory tests.

Thermal conductivity coefficient at 10° C degrees (UNI EN 12667) : 0,020-0,023 W/mk

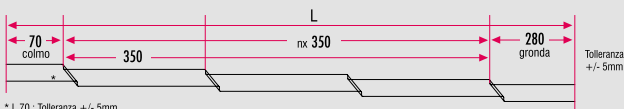
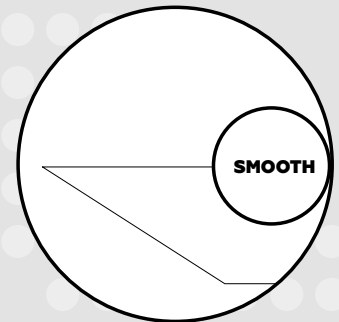
THE ECONOMICAL SOLUTION FOR CIVIL ROOFS

TECHNICAL DRAW

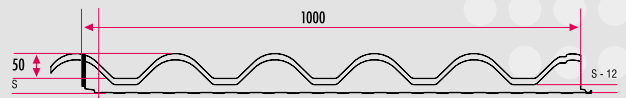


CORTEXMONO

INTERNAL FINISHES



* L.70 : Tolleranza +/- 5mm



EXTERNAL COLOURS



INTERNAL COLOURS



Standard colours available for panel surfaces. Other colours under request. RAL references on the colours used by Silex are purely indicative.

CORTEX MONO

THE ECONOMICAL SOLUTION FOR CIVIL ROOFS



PANEL THICKNESS (mm)	NOMINAL THICKNESS		PANEL WEIGHT (Kg/m ²)
	EXTERNAL SUPPORT (mm)	INTERNAL SUPPORT (mm)	
40	0,50 STEEL	PAPER FELT	6,96
	0,50 STEEL	CENTESIMAL ALUMINUM	6,88
	THERMAL TRANSMITTANCE: (K) EN ISO 6946 = 0,36 W/m ² K		
50	0,50 STEEL	PAPER FELT	7,34
	0,50 STEEL	CENTESIMAL ALUMINUM	7,25
	THERMAL TRANSMITTANCE: (K) EN ISO 6946 = 0,32 W/m ² K		
60	0,50 STEEL	PAPER FELT	7,72
	0,50 STEEL	CENTESIMAL ALUMINUM	7,63
	THERMAL TRANSMITTANCE: (K) EN ISO 6946 = 0,28 W/m ² K		
80	0,50 STEEL	PAPER FELT	8,48
	0,50 STEEL	CENTESIMAL ALUMINUM	8,39
	THERMAL TRANSMITTANCE: (K) EN ISO 6946 = 0,22 W/m ² K		



The data indicated on the tables are purely indicative except for errors or print omissions. For updated data please visit our website www.silexpanels.it. It is up to the architect/engineer to calculate the load values for every single application. Please refer to AIPPEG norms for what not specifically indicated (www.aippeg.it)