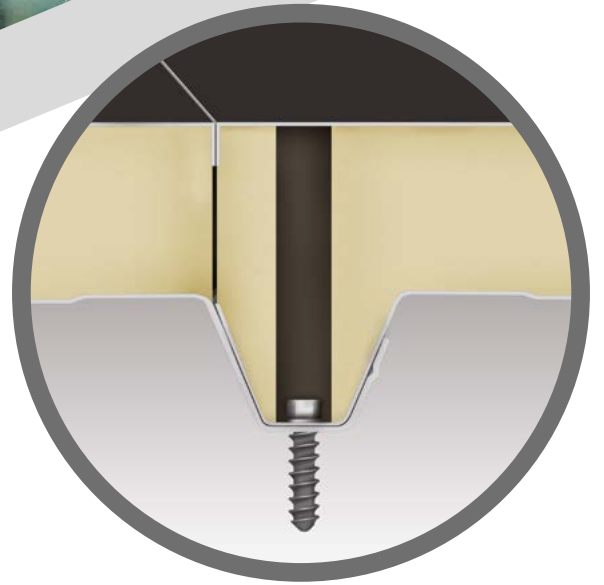




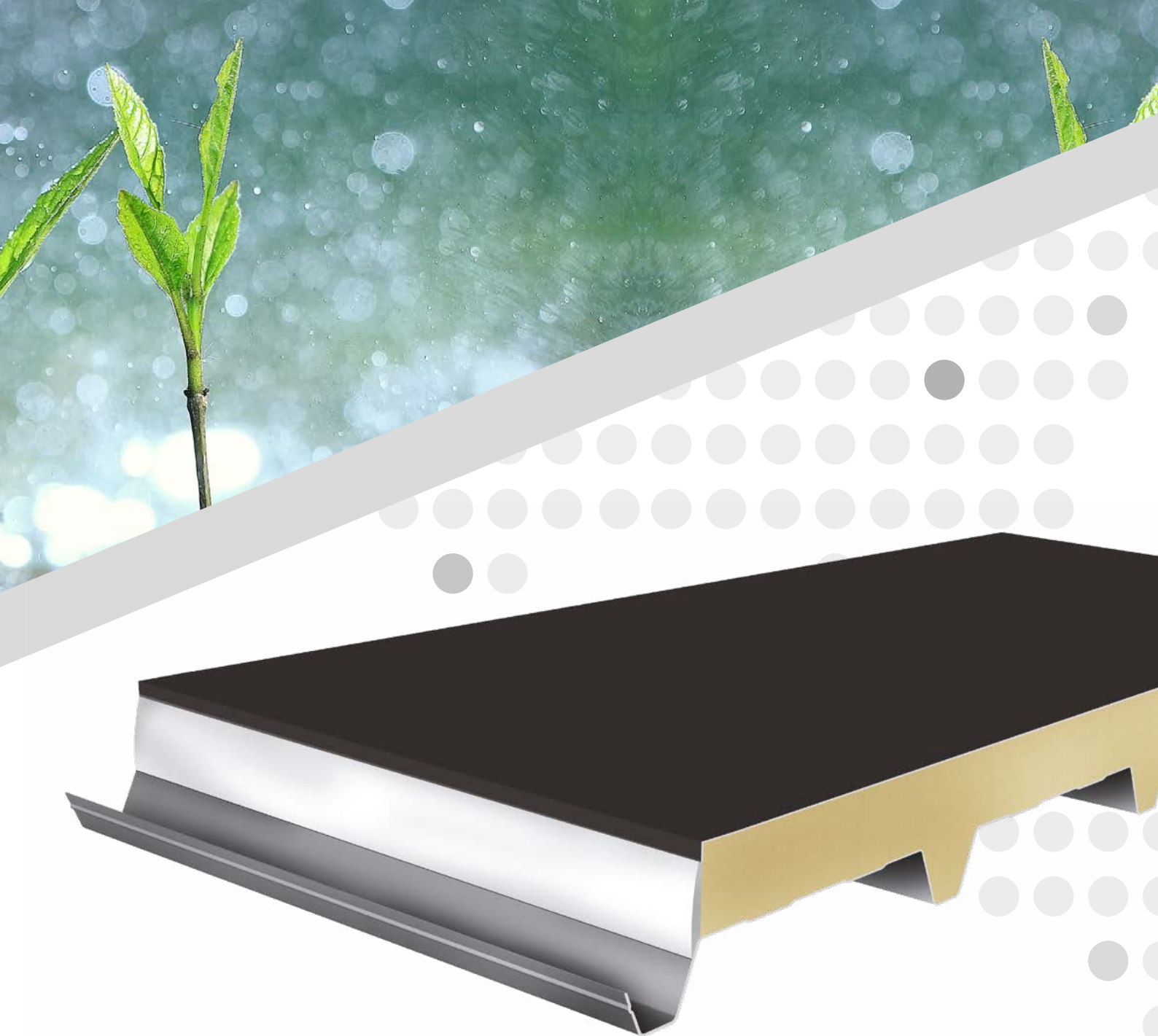
COVERINGPANELS



RAINDECK

THE WATERPROOF PANEL

RAIN DECK by **SILEX** is truly recommended for *waterproofing* roofs because it *reduces manpower on site* and in this way *guarantees a state-of the art implementation*.



Rain Deck by Silex is an insulated panel engineered for roofs with a flat surface or with a slope inferior to 7% available in many versions for the application of traditional sheaths or synthetic sheaths polyolefin-based.

The setting of the panel is featured by putting the 5 ribs towards the inside of the building and with the flat surface towards the exterior: during the production process a paper-felt support is applied to the panel which is necessary to guarantee the installation of sheaths bitumen based afterwards.

The convenience of these solutions is the achievement, in a short time frame, of the so-called “water out” of roofing. In fact once the panels are laid the water-proofing aspect is almost solved and only requires the sealing of the joints of bituminous sheets.

With the installation of the panels both the structural and insulation features of the roof are achieved.

The several thicknesses of metal sheets used for the internal surface make the weight-bearing features of the panel itself, which can be realized in galvanized steel, stainless steel, aluminium and other metals while the wide range of painting systems and finishes that can be adopted on the panel, allow to reach different aesthetic 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. Rain Deck panel is particularly functional to waterproof roofs on site



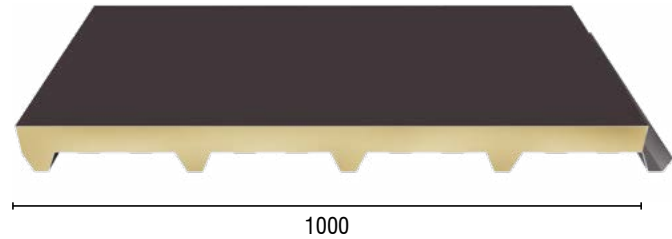
RAIN DECK

USEFUL WIDTH

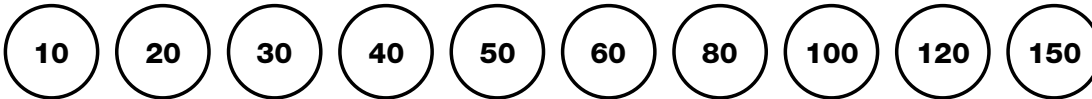
1000 mm

MAXIMUM LENGTH

13500 mm



THICKNESSES AVAILBLE



EXTERNAL METAL SHEETS AVAIL- ABLE

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.

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

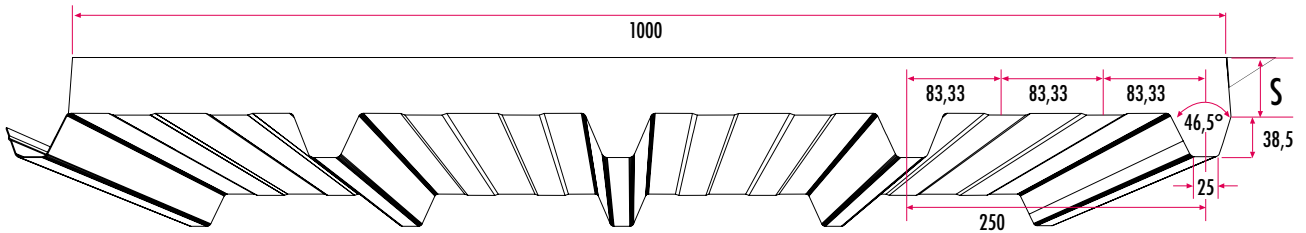
DIMENSIONAL TOLERANCES mm

Length	L ≤ 3 m	+/- 5 mm
	L > 3 m	+/- 10 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	

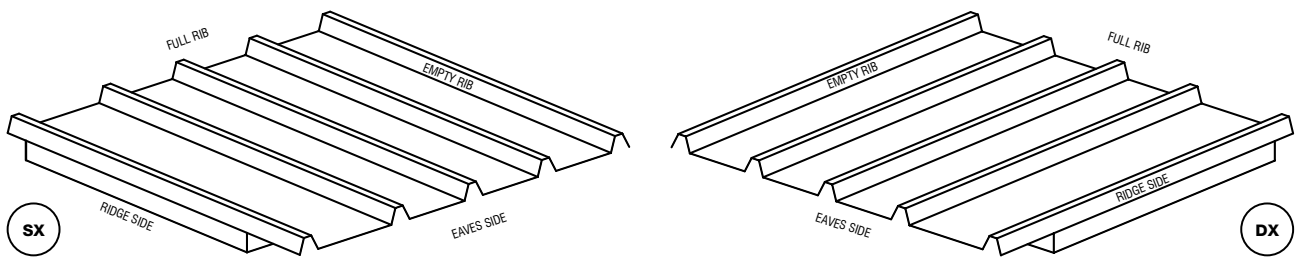
L stands for LENGTH, D standS FOR PANels thickness and F STANDS FOR METal sheets match

THE WATERPROOF PANEL

TECHNICAL DRAW

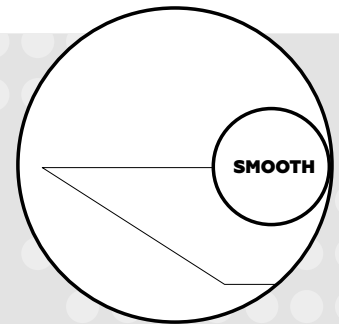


OVER-JOINT

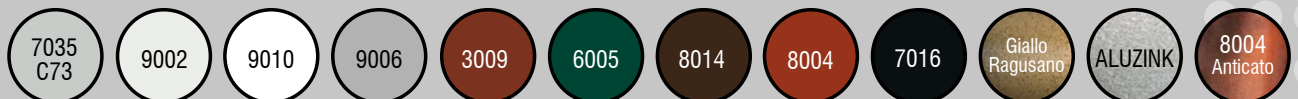


RAINDECK

INTERNAL FINISHES



EXTERNAL COLOURS



INTERNAL COLOURS

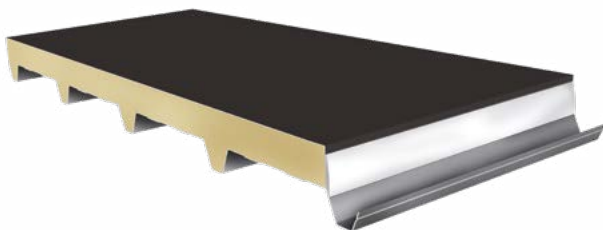


Standard colours available for panel surfaces. Other colours under request. RAL references on the colours used by Silex are purely indicative.

RAINDECK

THE WATERPROOF PANEL

PANEL THICKNESS (mm)	NOMINAL THICKNESS		PANEL WEIGHT (Kg/m ²)
	EXTERNAL SUPPORT (mm)	INTERNAL SUPPORT (mm)	
10	0,50 STEEL	PAPER FELT	5,39
	THERMAL TRANSMITTANCE: (U) EN 14509 = 1,78 W/m ² K (K) EN ISO 6946 = 1,44 W/m ² K		
20	0,50 STEEL	PAPER FELT	5,77
	THERMAL TRANSMITTANCE: (U) EN 14509 = 1,09 W/m ² K (K) EN ISO 6946 = 0,94 W/m ² K		
30	0,50 STEEL	PAPER FELT	6,11
	THERMAL TRANSMITTANCE: (U) EN 14509 = 0,78 W/m ² K (K) EN ISO 6946 = 0,70 W/m ² K		
40	0,50 STEEL	PAPER FELT	6,48
	THERMAL TRANSMITTANCE: (U) EN 14509 = 0,61 W/m ² K (K) EN ISO 6946 = 0,55 W/m ² K		
50	0,50 STEEL	PAPER FELT	6,85
	THERMAL TRANSMITTANCE: (U) EN 14509 = 0,50 W/m ² K (K) EN ISO 6946 = 0,46 W/m ² K		
60	0,50 STEEL	PAPER FELT	7,22
	THERMAL TRANSMITTANCE: (U) EN 14509 = 0,42 W/m ² K (K) EN ISO 6946 = 0,39 W/m ² K		
80	0,50 STEEL	PAPER FELT	7,96
	THERMAL TRANSMITTANCE: (U) EN 14509 = 0,31 (U) W/m ² K (K) EN ISO 6946 = 0,30 W/m ² K		
100	0,50 STEEL	PAPER FELT	8,7
	THERMAL TRANSMITTANCE: (U) EN 14509 = 0,25 W/m ² K (K) EN ISO 6946 = 0,25 W/m ² K		
120	0,50 STEEL	PAPER FELT	9,44
	THERMAL TRANSMITTANCE: (U) EN 14509 = 0,20 W/m ² K (K) EN ISO 6946 = 0,21 W/m ² K		
150	0,50 STEEL	PAPER FELT	10,55
	THERMAL TRANSMITTANCE: (U) EN 14509 = 0,16 W/m ² K (K) EN ISO 6946 = 0,17 W/m ² K		



Calculation carried out according to the Annex E of the UNI EN 14509 regulation. Load uniformly distributed on the external face, thermal gradient T = 0, light colours and limit of normal deflection 1/200. 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)

STEEL (mm)	SUPPORT WIDTH						
	100 mm uniformly distributed weights kg/m ²						
	150 cm	175 cm	200 cm	225 cm	250 cm	275 cm	300 cm
0,5	190	145	100	70	50		
0,6	230	185	135	100	65		
0,7	280	195	145	110	70	50	
0,8	315	235	170	125	80	55	
1,0	420	270	200	160	110	85	55