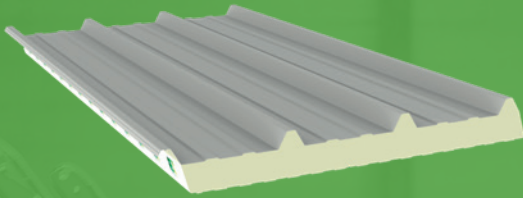


PRODUCT DATA SHEET

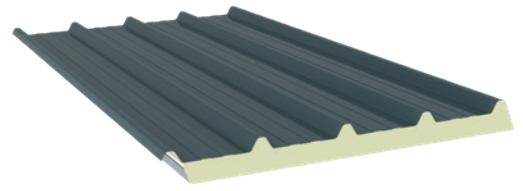
REX SDW **ROOF 4 ECO**



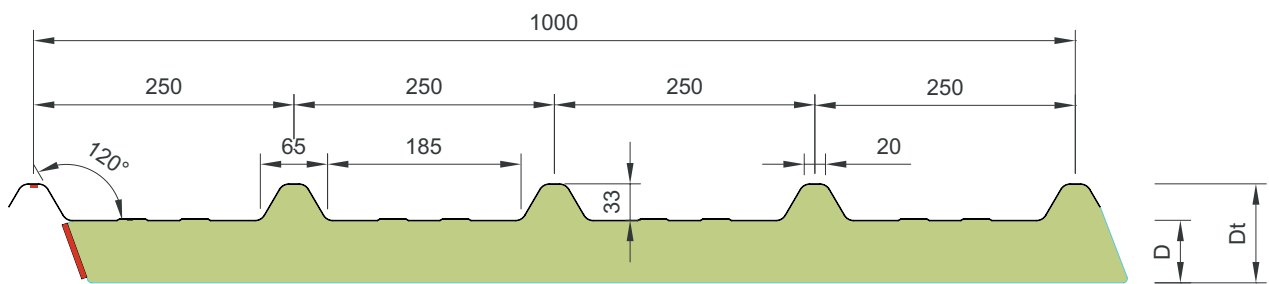
APPLICATIONS

The REX SDW ROOF 4 ECO sandwich panel has a trapezoidal steel outer plate and an aluminum-foil finish at the inside. This product is therefore very suitable for buildings with an aggressive indoor climate (for example, a high concentration of ammonia vapors). This product is supplied as standard with a PIR (Polyisocyanurate) rigid foam core material and is suitable for roofs with a roof pitch from 4° or more.

NOTE: The aluminum stucco interior is an exclusively functional finish. We recommend the REX SDW ROOF 4 version when an aesthetically more attractive solution is required.



SECTION



PROPERTIES

Thickness [D]	Overall Thickness [Dt]	Weight	U-value
[mm]	[mm]	[kg/m ²]	[W/m ² .K]
20	53	6,6	1,22
30	63	7,0	1,64
40	73	7,4	2,07
50	83	7,8	2,50
60	93	8,2	2,93
70	103	8,6	3,50
80	113	9,0	4,01
90	123	9,4	4,52
100	133	9,8	4,98
110	143	10,2	5,45
120	153	10,6	5,80
130	163	11,0	6,33
160	193	12,2	7,35

The mentioned insulation values in this table are based on calculations according NEN-EN14509:2013

PRODUCT DATA SHEET

REX SDW **ROOF 4 ECO**

Fire

Property	Standard	Certification Standard	Result	Field of application
Reaction to Fire	EN ISO 11925-2:2010 ignitability	EN 13501-1:2007 Fire classification of construction products and building elements - Part 1	B-S2-D0	All thicknesses
	EN 13501-1:2017 reaction to fire			
External Fire Performance	CEN/TS 1187	EN14509:2013 & 2006/600/EC	B _{ROOF} (t ₁ , t ₂ and t ₃)	All thicknesses



Environmental

For further information on environmental issues please contact the sales department of REX Panels & Profiles.

Air Leakage

When correctly installed the air leakage of the REX SDW ROOF 4 ECO sandwich panels is approx. 4,6 m³/hour/m² @ 50 pa. Under normal environmental conditions this is tight enough to prevent condensation or unacceptable air leakage. If necessary (i.e. coldstore applications) the airtightness can be improved by gun applied sealing the panel to panel joints using silicon mastic.

Acoustic

Indicative octave band sound Insulation Index (R) in [dB] / [Hz]							
63	125	250	500	1000	2000	4000	8000
17	18	24	23	24	37	38	42
The weighted Sound Reduction Index (SRI) of sandwich PIR roof panels is approx. 25 dB(A)							

MEASUREMENTS

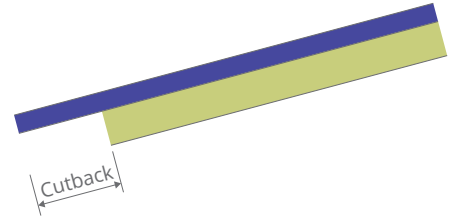
Available lengths

Standard lengths	2500 to 13600 mm
Longer lengths*	13600 to 21300 mm
Shorter lengths*	Below 2500 mm

*Non-standard lengths are available on request and subjected to a surcharge

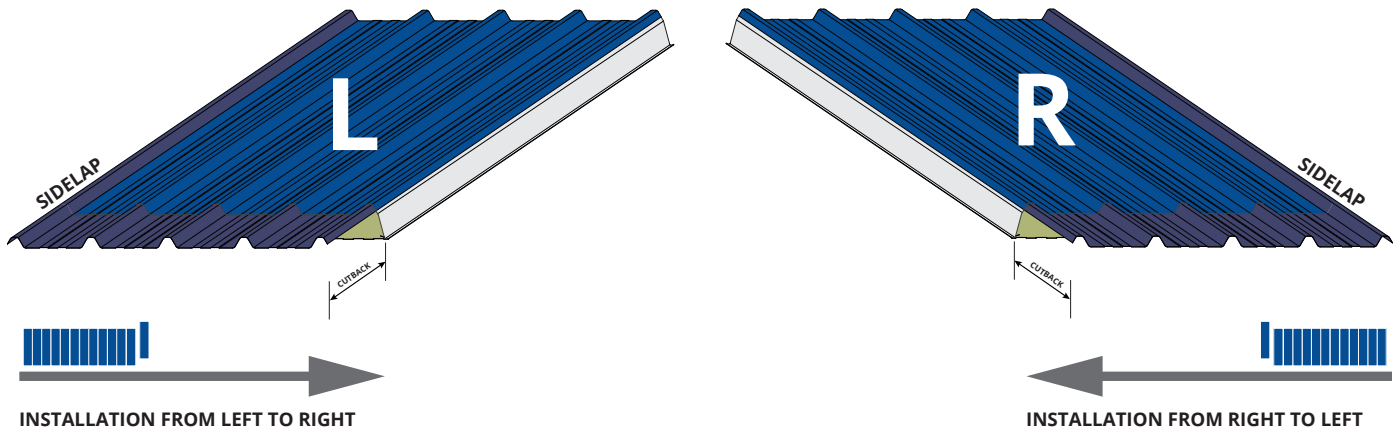
Panel End Cut Back

Standard Cut Back Eaves	100 mm
Standard Cut Back Endlap	200 to 300 mm
Minimum Cut Back	2 mm
Maximum Cut Back	350 mm



Orientation

Sandwich roof panels can be installed from left to right or from right to left. REX SDW ROOF 4 ECO panels are standard produced and supplied with a sidelap on the right (see illustration). If a different installation direction is required this can be mentioned during the order process.



Tolerances

Length	$L \leq 3000$ mm	-5 mm	+5 mm
	$L \geq 3000$ mm	-10 mm	+10 mm
Thickness	$D \leq 100$ mm	-2 mm	+2 mm
	$D \geq 100$ mm	-2%D	+2%D
Cover width		-2 mm	+2 mm
Squareness		-6 mm	+6 mm

Other product- and material tolerances according EN14509:2013

MATERIALS

Core material

The profiled external sheet is standard available in the following materials and coating systems:

Coating*	Steel	Thicknesses**	
		0,5	0,63
Polyester 25 mu	Galvanised Steel quality S280 GD or better	■	■
Plastisol 200 mu		■	■
REX PUR 60 mu		■	■

*Available colors according standard colorchart which is available on request ■ = standard available

**Other coatings / thicknesses on request available

Internal sheet

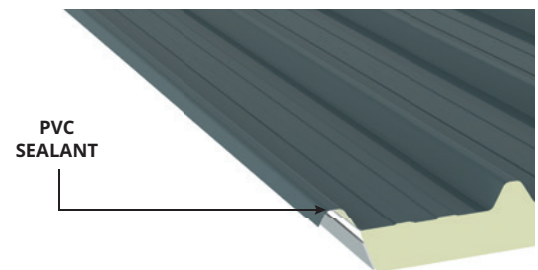
The internal sheet is standard available in the following material:

Coating	Steel	Thickness
		0,08
Broken White	Aluminium stucco	■

■ = standard available

Sealants

The REX SDW ROOF 4 ECO sandwich panel is fitted with a soft semi-closed PVC foam sealant. This sealant is factory applied on the overlap of the steel external sheet (side lap). With a compression rate of 30% a sufficiently airtight joint will be created.



QUALITY AND GUARANTEE

Quality

The panels from REX Panels & Profiles are CE marked according EN14509:2013. The quality of our products is under FPC (Factory Production Control) continuously monitored in our own testlaboratory. These procedures are secured under ISO9001.

Certification

The REX SDW ROOF 4 ECO panels can be supplied including the following certificates / quality marks:



Guarantee

All products from REX Panels & Profiles come with a standard 10-year product warranty. An extended warranty is available on request under certain conditions. Some coating systems offer an additional (longer) guarantee on the durability of the external and / or internal sheet. For more information or the warranty conditions you can consult the website or contact our sales department.

PACKAGING AND TRANSPORT

Packaging

The REX SDW ROOF 4 ECO sandwich panels are stacked interleaved on OSB boards and PS blocks and fully wrapped in foil to create solid and manageable bundles. On request the panels can be stacked with all profiled external sheets up or down.

	Number of panels per pack												
Core thickness	20	30	40	50	60	70	80	90	100	110	120	130	160
Stacked interleaved	28	22	18	16	14	12	10	10	8	8	8	6	6
Stacked crowns up or down	20	17	15	13	11	10	9	9	8	7	7	7	6

Transport












All deliveries are made via standard road transport to the construction site (maximum standard length 13600 mm). The trucks must be unloaded by the customer with suitable lifting equipment. Transport of longer lengths (up to 21300 mm) and / or self-unloaders is also possible on request.

PRODUCT DATA SHEET

REX SDW **ROOF 4 ECO**

COLOR CHART






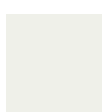
Polyester 25 µ in 0,5/0,63 mm

								
RAL 1015	RAL 5008	RAL 6005	RAL 6009	RAL 6011	RAL 7012	RAL 7016	RAL 7022	RAL 7035
								
RAL 8004	RAL 8012	RAL 8019	RAL 9002	RAL 9005	RAL 9006	RAL 9007	RAL 9010	

Polyester 25 µ in 0,75 mm

						
RAL 5008	RAL 7016	RAL 8012	RAL 9002	RAL 9006	RAL 9007	RAL 9010

REXPUR 60 µ in 0,5/0,63/0,75 mm

					
RAL 7016	RAL 9002	RAL 9005	RAL 9006	RAL 9007	RAL 9010

Plastisol 200 µ in 0,5 / 0,63 mm

								
ANTHRACITE	DARK GREEN	JUNIPER GREEN	GOOSEWING GREY	MERLIN GREY	VAN DIJCK BROWN	BLACK	HAMLET	RAL 9010 WHITE
								
HONESTY	MUSHROOM	OLIVE GREEN	TERRACOTTA					

Rooftile colors in polyester 25 µ / 0,5 mm

		
ANTHRACITE	TERRACOTTA	BLACK

Rooftile colors in 40 µ mat / 0,5 mm

		
ANTHRACITE	TERRACOTTA	BLACK

Rooftile colors in plastisol 200 µ / 0,5 mm

		
ANTHRACITE	TERRACOTTA	BLACK



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