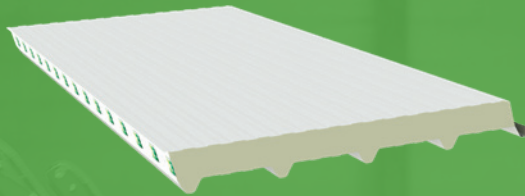


**PRODUCT DATA SHEET**

**REX SDW FLAT ROOF**

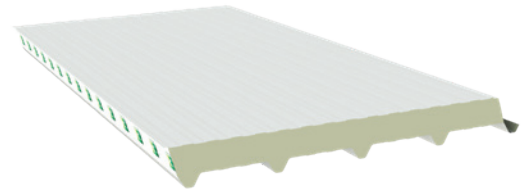


# PRODUCT DATA SHEET

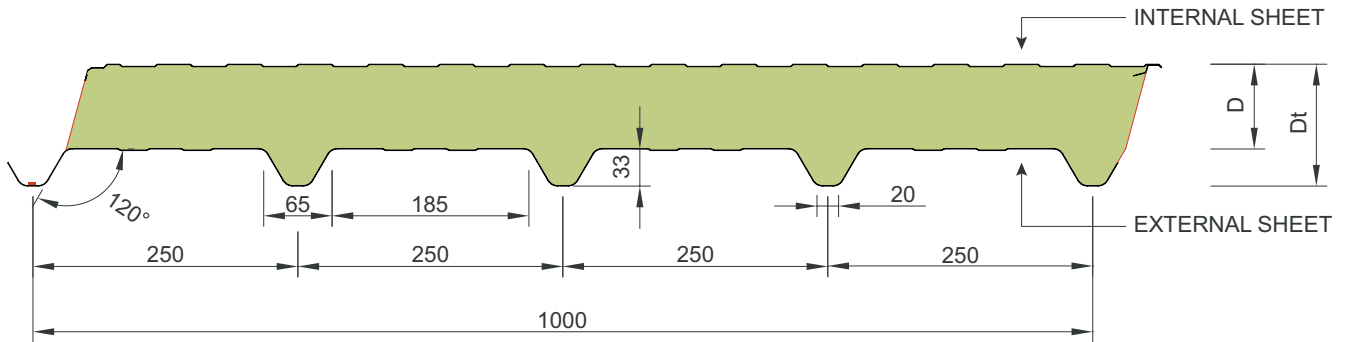
## REX SDW **FLAT ROOF**

### APPLICATIONS

The REX SDW FLAT ROOF sandwich panel has a trapezoidal steel inner plate and a lined steel outer plate. This product comes standard with a PIR (Polyisocyanurate) rigid foam core material and is suitable for flat roofs. After mounting, the roof surface must be waterproofed with a suitable roof covering.



### SECTION



### PROPERTIES

Thickness [D]	Overall Thickness [Dt]	Weight	U-value
[mm]	[mm]	[kg/m <sup>2</sup> ]	[W/m <sup>2</sup> .k]
60	93	12,3	0,34
80	113	13,1	0,26
100	133	13,9	0,22
120	153	10,6	0,18
130	163	15,1	0,17
160	193	16,3	0,14

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

# PRODUCT DATA SHEET

## REX SDW **FLAT ROOF**

### Fire

Property	Standard	Certification Standard	Result	Field of application
<b>Reaction to Fire</b>	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			
<b>External Fire Performance</b>	CEN/TS 1187	EN14509:2013 & 2006/600/EC	B <sub>ROOF</sub> (t <sub>1</sub> , t <sub>2</sub> and t <sub>3</sub> )	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 FLAT ROOF sandwich panels is approx. 3,5 m<sup>3</sup>/hour/m<sup>2</sup> @ 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)**

# PRODUCT DATA SHEET

## REX SDW **FLAT ROOF**

### MEASUREMENTS

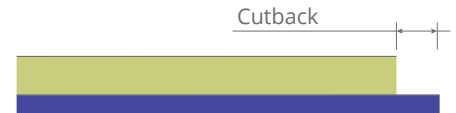
#### Available lengths

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

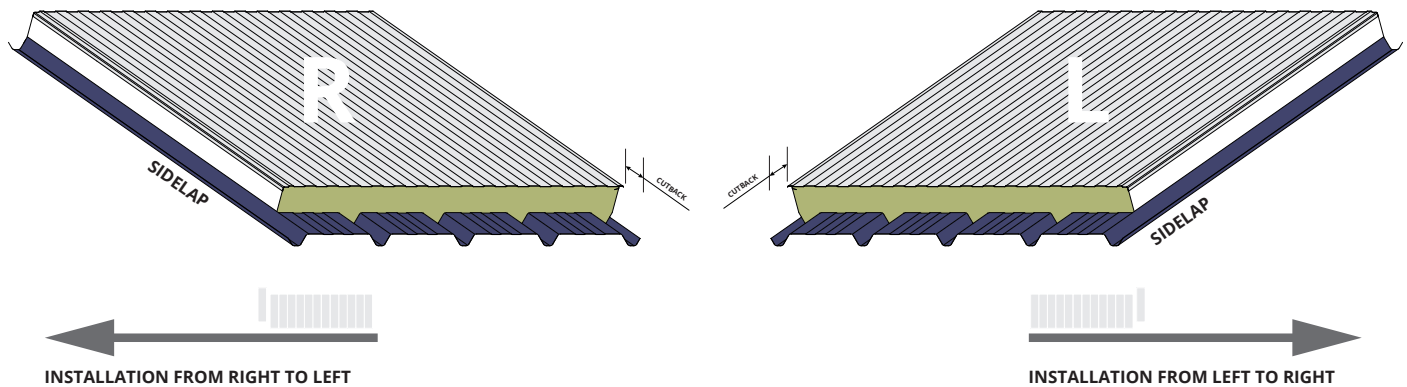
#### Panel End Cut Back

Standard Cut Back	50 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 FLAT ROOF 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

# PRODUCT DATA SHEET

## REX SDW **FLAT ROOF**

### MATERIALS

#### Core material

The REX SDW FLAT ROOF sandwich panels are produced with a high quality PIR (Polyisocyanurate) core material with a density of 40 kg/m<sup>3</sup>.

#### External sheet

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

Coating*	Steel	Thicknesses**	
		0,63	0,75
Polyester 25 mu	Galvanised Steel quality S280 GD or better	■	■

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

\*\*Other coatings / thicknesses on request available

#### Internal sheet

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

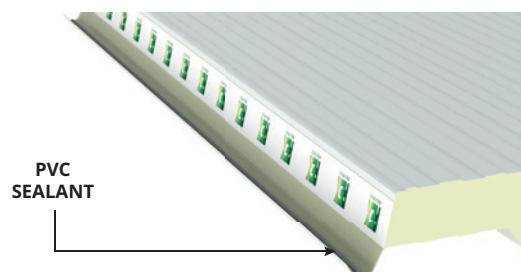
Coating*	Steel	Thicknesses**	
		0,5	0,63
Polyester 25 mu	Galvanised Steel quality S280 GD or better	■	■

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

\*\*Other coatings / thicknesses on request available

#### Sealants

The REX SDW FLAT ROOF 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 REX SDW FLAT ROOF product is 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 FLAT ROOF 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 FLAT ROOF 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	60	80	100	120	130	160
Stacked interleaved	14	10	8	8	6	6
Stacked crowns up or down	11	9	8	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.



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