Product card - **Roof sandwich panel**

SPR CORE PIR

STEEL SERVICE CENTRE

VSS

Product card

Roof sandwich panel

SPR CORE PIR

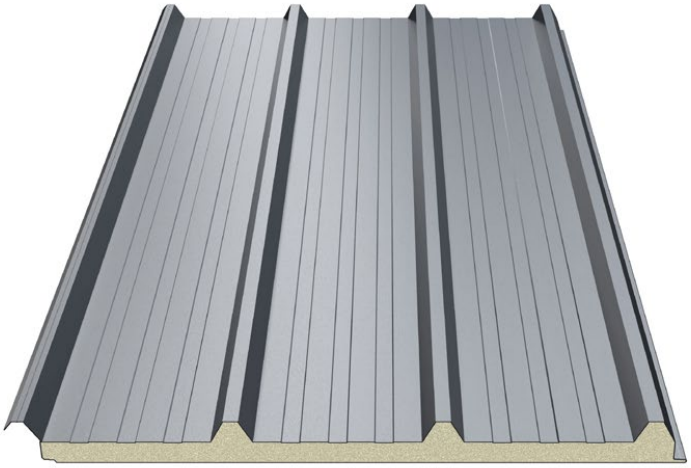
Scan the code and learn more about the product!

Sandwich panels are high-performance products that meet the requirements of the modern construction market.

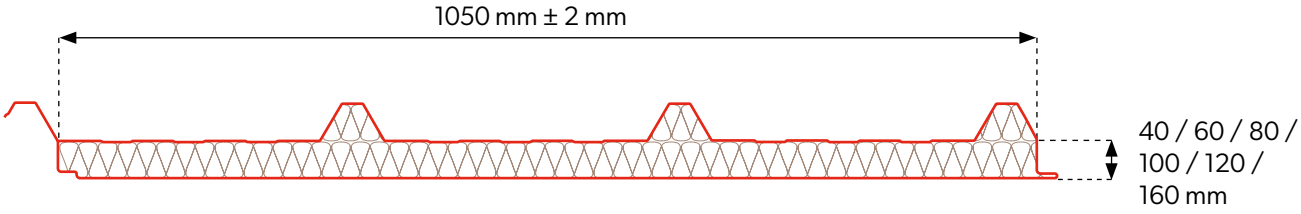
Our insulated panels are a suitable solution for the construction of roofs of industrial facilities and public utility buildings.

For the investor, it is a high quality product at a good price. For architects, it offers many possibilities in relation to the design intent. For construction managers, quick and easy installation. For construction supervision, friendly and transparent possibilities to verify the course of the entire process of construction execution from delivery until build acceptance.

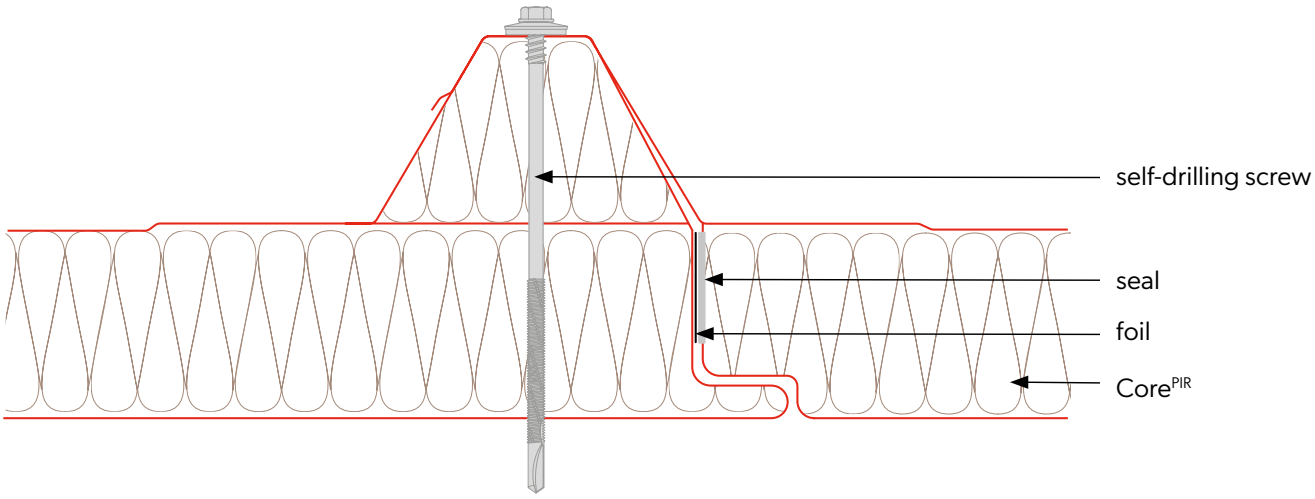
Technical information



Panel cross-section

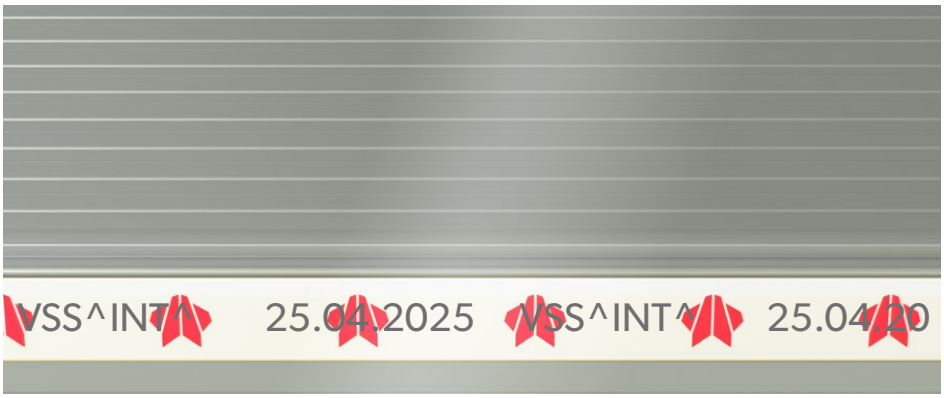


Joining the panels



Technical information

Core	**PIR**					
Density [kg/m^3]	**40 ± 3**					
PIR panel thickness [mm]	**40**	**60**	**80**	**100**	**120**	**160**
Weight [kg/m^2]	**9,6**	**10,4**	**11,2**	**12,0**	**12,8**	**14,8**
Effective width [mm]	**1050**					
Total width [mm]	**1127**					
Min. panel length [m]	**2,0**					
Max. panel length [m]	**15,0**					
Outer/inner sheet thickness [mm]	**0,3-0,7 / 0,3-0,7**					
U-value [W/m^{2}K]	**0,55**	**0,37**	**0,28**	**0,22**	**0,18**	**0,14**
Reaction to external fire on the roof	**B_{ROOF} (t1)**					
Fire spread degree	**NRO**					
Type of external / internal profiling	**[T40] / [T1], [M], [F]**					
External / internal corrosion resistance	**C1, C2, C3 (C4 ÷ C5) / A1 (A2 ÷ A5)**					
Standard coatings	**Poliester Interior [INT], Poliester Standard [RAL], HERCULIT [HC], MULTILAYER 40 [MLT]**					
Special coatings	**PVDF, PUR, PVC (P), PVC (F) - FoodSafe**					
Accessories	**fixing system, seals, flashings, rooflight SPR-SKY**					

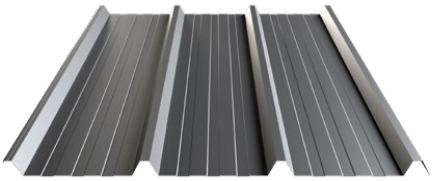


Inner side with [INT] coating

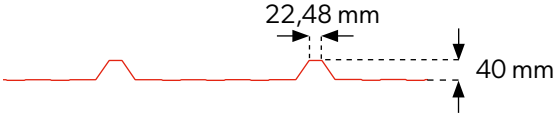
External side

NOTE! The arrows marked with the symbol **^INT^** on the panel lock point to the **inner side** of the sandwich panel with the **[INT] INTERIOR** coating.

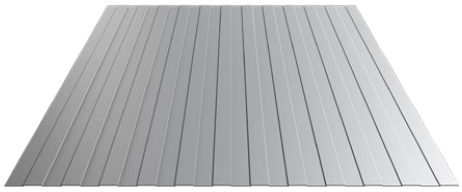
External profiling



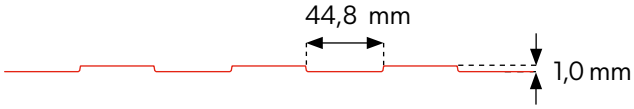
TRAPEZOIDAL 40 [T40]

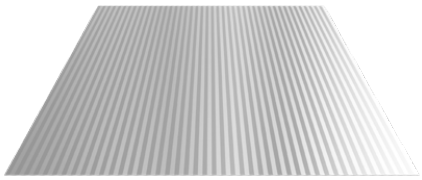


Internal profiling

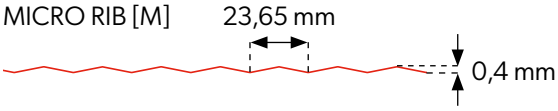


TRAPEZOIDAL [T1]





MICRO RIB [M]



FLAT [F]

ATTENTION! Due to the structure of sandwich panels with FLAT [F] profiles, the so-called effect may occur. „waves" of the sheet metal. This is a natural phenomenon for this type of products. We recommend contacting the technical department to choose the optimal solution.

Internal and external profiling are available in any configuration.

Coatings and colors

POLIESTER Interior [INT] - Available colors for interior cladding

INT 9002 | INT 9010

POLIESTER Standard [RAL] - Available colors for exterior cladding

RAL 1002 | RAL 1015 | RAL 3000 | RAL 3005 | RAL 3009 | RAL 3011 | RAL 5010

RAL 6005 | RAL 6011 | RAL 6020 | RAL 6029 | RAL 7016 | RAL 7024 | RAL 7035

RAL 8004 | RAL 8017 | RAL 8019 | RAL 9002 | RAL 9005 | RAL 9006 | RAL 9007 | RAL 9010

HERCULIT [HC]

HC 3009 | HC 7016 | HC 8004 | HC 8017 | HC 9005

MULTILAYER 40 [MLT] - Available colors for exterior cladding

SL252 Winchester | SL59 Dark Oak | SL65 Golden Oak

Printing technology does not allow faithful rendering of colors. Therefore the colors shown are indicative and may differ from actual colors.

In addition, on individual order, non-standard colors and coatings are available, outside the palette shown (PVDF, PUR, PVC (P), PVC (F) - FoodSafe).

Coating parameters

Code	Coating thickness	Corrosion resistance	UV resistance
POLIESTER Interior [INT]	15 µm	RA2	Not applicable
POLIESTER Standard [RAL]	25 µm	RC3	RUV2
HERCULIT [HC]	35 µm	RC4	RUV4
MULTILAYER 40 [MLT]	40 µm	RC3	RUV3

Notes

The span widths are calculated according to the proof procedures given in EN 14509.
All loads are regarded as characteristic loads. Element dead loads have been considered in the span calculations.
Possible errors and omissions excepted. Please consider, that this table does not replace a verifi able structural design.

Sandwich panel- SPR CORE PIR 40 T40/T1 0,50/0,40

System	Colour group	Characteristics downward load, e.g. snow load [kN/m²]														
		0,4	0,6	0,8	1,0	1,2	1,4	1,6	1,8	2,0	2,4	2,8	3,2	3,6	4,0	4,4
Single Span	I	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		3,13	2,49	2,10	1,84	1,65	1,51	1,40	1,31	1,24	1,12	1,03	0,96	0,90	0,85	0,81
	II	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		3,13	2,49	2,10	1,84	1,65	1,51	1,40	1,31	1,24	1,12	1,03	0,96	0,90	0,85	0,81
	III	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		3,13	2,49	2,10	1,84	1,65	1,51	1,40	1,31	1,24	1,12	1,03	0,96	0,90	0,85	0,81
Double Span	I	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		3,13	2,49	2,10	1,84	1,66	1,51	1,40	1,31	1,24	1,12	1,02	0,90	0,80	0,72	0,66
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	II	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		3,13	2,49	2,10	1,84	1,66	1,51	1,40	1,31	1,24	1,12	1,02	0,90	0,80	0,72	0,66
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	III	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		3,13	2,49	2,10	1,84	1,66	1,51	1,40	1,31	1,24	1,12	1,02	0,90	0,80	0,72	0,66
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
Triple Span	I	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		3,13	2,49	2,10	1,84	1,66	1,51	1,40	1,31	1,24	1,12	1,02	0,90	0,80	0,72	0,66
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	II	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		3,13	2,49	2,10	1,84	1,66	1,51	1,40	1,31	1,24	1,12	1,02	0,90	0,80	0,72	0,66
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	III	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		3,13	2,49	2,10	1,84	1,66	1,51	1,40	1,31	1,24	1,12	1,02	0,90	0,80	0,72	0,66
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60

System	Colour group	Characteristics uplifting load, e.g. wind suction [kN/m²]														
		-0,3	-0,4	-0,5	-0,6	-0,7	-0,8	-0,9	-1,0	-1,2	-1,4	-1,6	-1,8	-2,0	-2,2	-2,4
Single Span	I	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		3,96	3,96	3,96	3,79	3,56	3,25	3,01	2,80	2,47	2,22	2,02	1,86	1,73	1,62	1,53
	II	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		3,96	3,96	3,78	3,58	3,38	3,21	3,01	2,80	2,47	2,22	2,02	1,86	1,73	1,62	1,53
	III	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		3,46	3,30	3,16	3,05	2,95	2,86	2,79	2,72	2,47	2,22	2,02	1,86	1,73	1,62	1,53
Double Span	I	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		5,39	4,21	3,54	3,09	2,77	2,53	2,34	2,19	1,95	1,78	1,64	1,53	1,44	1,37	1,30
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	II	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		5,00	3,91	3,29	2,88	2,59	2,37	2,20	2,06	1,85	1,69	1,57	1,47	1,39	1,32	1,26
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	III	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		4,30	3,20	2,72	2,44	2,24	2,10	1,98	1,88	1,70	1,57	1,47	1,38	1,31	1,25	1,20
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
Triple Span	I	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		6,07	5,02	4,19	3,64	3,25	2,95	2,72	2,53	2,24	2,02	1,86	1,73	1,63	1,54	1,46
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	II	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		6,07	4,80	4,01	3,49	3,11	2,83	2,61	2,42	2,15	1,95	1,80	1,67	1,57	1,49	1,42
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	III	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		5,75	4,47	3,73	3,24	2,90	2,64	2,44	2,27	2,02	1,84	1,70	1,59	1,50	1,42	1,35
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60

The span widths are calculated according to the proof procedures given in EN 14509.
All loads are regarded as characteristic loads. Element dead loads have been considered in the span calculations.
Possible errors and omissions excepted. Please consider, that this table does not replace a verifi able structural design.

Sandwich panel-SPR CORE PIR 60 T40/T1 0,50/0,40

System	Colour group	Characteristics downward load, e.g. snow load [kN/m²]														
		0,4	0,6	0,8	1,0	1,2	1,4	1,6	1,8	2,0	2,4	2,8	3,2	3,6	4,0	4,4
Single Span	I	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		4,04	3,12	2,56	2,18	1,92	1,72	1,57	1,45	1,36	1,21	1,10	1,01	0,94	0,89	0,84
	II	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		4,04	3,12	2,56	2,18	1,92	1,72	1,57	1,45	1,36	1,21	1,10	1,01	0,94	0,89	0,84
	III	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		4,04	3,12	2,56	2,18	1,92	1,72	1,57	1,45	1,36	1,21	1,10	1,01	0,94	0,89	0,84
Double Span	I	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		3,90	3,12	2,56	2,18	1,92	1,72	1,57	1,45	1,36	1,19	1,02	0,90	0,80	0,72	0,66
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	II	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		3,90	3,12	2,56	2,18	1,92	1,72	1,57	1,45	1,36	1,19	1,02	0,90	0,80	0,72	0,66
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	III	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		3,90	3,12	2,56	2,18	1,92	1,72	1,57	1,45	1,36	1,19	1,02	0,90	0,80	0,72	0,66
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
Triple Span	I	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		4,03	3,12	2,56	2,18	1,92	1,72	1,57	1,45	1,36	1,19	1,02	0,90	0,80	0,72	0,66
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	II	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		4,03	3,12	2,56	2,18	1,92	1,72	1,57	1,45	1,36	1,19	1,02	0,90	0,80	0,72	0,66
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	III	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		4,04	3,12	2,56	2,18	1,92	1,72	1,57	1,45	1,36	1,19	1,02	0,90	0,80	0,72	0,66
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60

System	Colour group	Characteristics uplifting load, e.g. wind suction [kN/m²]														
		-0,3	-0,4	-0,5	-0,6	-0,7	-0,8	-0,9	-1,0	-1,2	-1,4	-1,6	-1,8	-2,0	-2,2	-2,4
Single Span	I	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		4,88	4,88	4,88	4,70	4,40	4,13	3,88	3,69	3,33	2,98	2,69	2,46	2,26	2,09	1,94
	II	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		4,88	4,88	4,76	4,44	4,17	3,95	3,76	3,60	3,33	2,98	2,69	2,46	2,26	2,09	1,94
	III	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		4,36	4,12	3,93	3,77	3,64	3,52	3,42	3,32	3,14	2,95	2,69	2,46	2,26	2,09	1,94
Double Span	I	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		6,47	4,92	4,06	3,50	3,11	2,82	2,59	2,41	2,13	1,92	1,77	1,64	1,54	1,45	1,38
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	II	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		5,96	4,53	3,74	3,23	2,88	2,62	2,42	2,25	2,00	1,82	1,68	1,57	1,47	1,40	1,33
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	III	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		5,13	3,52	2,94	2,61	2,40	2,24	2,11	2,01	1,83	1,68	1,56	1,46	1,38	1,32	1,26
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
Triple Span	I	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		7,21	5,89	4,83	4,14	3,66	3,29	3,00	2,78	2,43	2,18	1,99	1,84	1,72	1,62	1,53
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	II	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		7,21	5,62	4,60	3,95	3,48	3,13	2,86	2,65	2,32	2,09	1,91	1,77	1,66	1,56	1,48
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	III	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		6,88	5,19	4,25	3,64	3,21	2,89	2,65	2,46	2,16	1,95	1,80	1,67	1,57	1,48	1,41
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60

The span widths are calculated according to the proof procedures given in EN 14509.
All loads are regarded as characteristic loads. Element dead loads have been considered in the span calculations.
Possible errors and omissions excepted. Please consider, that this table does not replace a verifi able structural design.

Sandwich panel- SPR CORE PIR 80 T40/T1 0,50/0,40

System	Colour group	Characteristics downward load, e.g. snow load [kN/m²]														
		0,4	0,6	0,8	1,0	1,2	1,4	1,6	1,8	2,0	2,4	2,8	3,2	3,6	4,0	4,4
Single Span	I	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		5,07	3,92	3,17	2,64	2,27	2,00	1,79	1,63	1,50	1,32	1,18	1,08	1,00	0,94	0,88
	II	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		5,07	3,92	3,17	2,64	2,27	2,00	1,79	1,63	1,50	1,32	1,18	1,08	1,00	0,94	0,88
	III	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		5,07	3,92	3,17	2,64	2,27	2,00	1,79	1,63	1,50	1,32	1,18	1,08	1,00	0,94	0,88
Double Span	I	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		4,14	3,34	2,86	2,53	2,27	1,97	1,74	1,56	1,41	1,18	1,02	0,90	0,80	0,72	0,66
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	II	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		4,14	3,34	2,86	2,53	2,27	1,97	1,74	1,56	1,41	1,18	1,02	0,90	0,80	0,72	0,66
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	III	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		4,14	3,35	2,86	2,53	2,27	1,97	1,74	1,56	1,41	1,18	1,02	0,90	0,80	0,72	0,66
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
Triple Span	I	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		4,72	3,80	3,17	2,64	2,27	1,97	1,74	1,56	1,41	1,18	1,02	0,90	0,80	0,72	0,66
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	II	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		4,72	3,80	3,17	2,64	2,27	1,97	1,74	1,56	1,41	1,18	1,02	0,90	0,80	0,72	0,66
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	III	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		4,71	3,80	3,17	2,64	2,27	1,97	1,74	1,56	1,41	1,18	1,02	0,90	0,80	0,72	0,66
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60

System	Colour group	Characteristics uplifting load, e.g. wind suction [kN/m²]														
		-0,3	-0,4	-0,5	-0,6	-0,7	-0,8	-0,9	-1,0	-1,2	-1,4	-1,6	-1,8	-2,0	-2,2	-2,4
Single Span	I	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		5,84	5,84	5,84	5,45	5,01	4,66	4,38	4,14	3,78	3,50	3,28	3,09	2,92	2,70	2,51
	II	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		5,84	5,84	5,76	5,33	4,99	4,66	4,38	4,14	3,78	3,50	3,28	3,09	2,92	2,70	2,51
	III	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		5,40	5,06	4,80	4,58	4,40	4,25	4,11	3,99	3,72	3,49	3,27	3,09	2,92	2,70	2,51
Double Span	I	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		7,57	5,64	4,59	3,92	3,45	3,11	2,84	2,63	2,31	2,07	1,90	1,75	1,64	1,54	1,46
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	II	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		6,96	5,16	4,20	3,59	3,18	2,87	2,63	2,45	2,16	1,95	1,79	1,67	1,56	1,48	1,40
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	III	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		5,96	3,94	3,21	2,82	2,58	2,40	2,26	2,15	1,96	1,79	1,66	1,55	1,46	1,39	1,32
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
Triple Span	I	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		8,27	6,76	5,47	4,64	4,06	3,62	3,29	3,02	2,62	2,34	2,12	1,95	1,82	1,70	1,61
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	II	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		8,26	6,44	5,20	4,40	3,85	3,44	3,12	2,87	2,50	2,23	2,03	1,87	1,75	1,64	1,55
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	III	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		8,04	5,93	4,77	4,04	3,53	3,16	2,87	2,65	2,31	2,08	1,90	1,76	1,64	1,55	1,47
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60

The span widths are calculated according to the proof procedures given in EN 14509.
All loads are regarded as characteristic loads. Element dead loads have been considered in the span calculations.
Possible errors and omissions excepted. Please consider, that this table does not replace a verifi able structural design.

Sandwich panel- SPR CORE PIR 100 T40/T1 0,50/0,40

System	Colour group	Characteristics downward load, e.g. snow load [kN/m²]														
		0,4	0,6	0,8	1,0	1,2	1,4	1,6	1,8	2,0	2,4	2,8	3,2	3,6	4,0	4,4
Single Span	I	40	40	40	40	40	40	40	40	40	40	40	40	40	41	42
		5,93	4,78	3,88	3,23	2,74	2,36	2,08	1,86	1,70	1,45	1,28	1,16	1,06	0,99	0,92
	II	40	40	40	40	40	40	40	40	40	40	40	40	40	41	42
		5,93	4,78	3,88	3,23	2,74	2,36	2,08	1,86	1,70	1,45	1,28	1,16	1,06	0,99	0,92
	III	40	40	40	40	40	40	40	40	40	40	40	40	40	41	42
		5,93	4,78	3,88	3,23	2,74	2,36	2,08	1,86	1,70	1,45	1,28	1,16	1,06	0,99	0,92
Double Span	I	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		4,36	3,51	2,99	2,63	2,26	1,96	1,73	1,55	1,40	1,18	1,02	0,89	0,80	0,72	0,66
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	II	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		4,36	3,51	2,99	2,63	2,26	1,96	1,73	1,55	1,40	1,18	1,02	0,89	0,80	0,72	0,66
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	III	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		4,36	3,51	2,99	2,63	2,26	1,96	1,73	1,55	1,40	1,18	1,02	0,89	0,80	0,72	0,66
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
Triple Span	I	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		4,94	3,96	3,26	2,67	2,26	1,96	1,73	1,55	1,40	1,18	1,02	0,89	0,80	0,72	0,66
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	II	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		4,94	3,96	3,26	2,67	2,26	1,96	1,73	1,55	1,40	1,18	1,02	0,89	0,80	0,72	0,66
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	III	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		4,94	3,96	3,26	2,67	2,26	1,96	1,73	1,55	1,40	1,18	1,02	0,89	0,80	0,72	0,66
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60

System	Colour group	Characteristics uplifting load, e.g. wind suction [kN/m²]														
		-0,3	-0,4	-0,5	-0,6	-0,7	-0,8	-0,9	-1,0	-1,2	-1,4	-1,6	-1,8	-2,0	-2,2	-2,4
Single Span	I	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		6,78	6,78	6,72	6,05	5,55	5,16	4,84	4,57	4,16	3,85	3,59	3,39	3,22	3,07	2,94
	II	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		6,78	6,78	6,72	6,05	5,55	5,16	4,84	4,57	4,16	3,85	3,59	3,39	3,22	3,07	2,94
	III	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		6,54	6,07	5,72	5,44	5,21	5,01	4,84	4,58	4,16	3,85	3,59	3,39	3,22	3,07	2,94
Double Span	I	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		8,55	6,35	5,10	4,32	3,78	3,39	3,08	2,84	2,48	2,22	2,02	1,87	1,74	1,63	1,54
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	II	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		7,99	5,80	4,65	3,95	3,47	3,12	2,85	2,64	2,32	2,09	1,91	1,77	1,66	1,56	1,48
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	III	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		6,82	4,42	3,50	3,05	2,77	2,57	2,42	2,29	2,09	1,90	1,76	1,64	1,54	1,46	1,39
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
Triple Span	I	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		9,26	7,62	6,10	5,12	4,45	3,96	3,57	3,27	2,82	2,50	2,26	2,07	1,92	1,79	1,69
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	II	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		9,26	7,25	5,78	4,86	4,22	3,74	3,38	3,10	2,67	2,37	2,15	1,98	1,84	1,72	1,63
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	III	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		9,23	6,66	5,29	4,43	3,85	3,42	3,09	2,84	2,46	2,20	2,00	1,85	1,72	1,62	1,54
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60

The span widths are calculated according to the proof procedures given in EN 14509.
All loads are regarded as characteristic loads. Element dead loads have been considered in the span calculations.
Possible errors and omissions excepted. Please consider, that this table does not replace a verifi able structural design.

Sandwich panel- SPR CORE PIR 120 T40/T1 0,50/0,40

System	Colour group	Characteristics downward load, e.g. snow load [kN/m²]														
		0,4	0,6	0,8	1,0	1,2	1,4	1,6	1,8	2,0	2,4	2,8	3,2	3,6	4,0	4,4
Single Span	I	40	40	41	42	42	41	41	40	40	40	40	40	40	41	42
		6,64	5,30	4,38	3,68	3,14	2,70	2,35	2,08	1,86	1,54	1,33	1,18	1,07	0,99	0,92
	II	40	40	41	42	42	41	41	40	40	40	40	40	40	41	42
		6,64	5,30	4,38	3,68	3,14	2,70	2,35	2,08	1,86	1,54	1,33	1,18	1,07	0,99	0,92
	III	40	40	41	42	42	41	41	40	40	40	40	40	40	41	42
		6,64	5,30	4,38	3,68	3,14	2,70	2,35	2,08	1,86	1,54	1,33	1,18	1,07	0,99	0,92
Double Span	I	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		4,76	3,82	3,23	2,65	2,25	1,95	1,72	1,54	1,40	1,18	1,02	0,89	0,80	0,72	0,66
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	II	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		4,76	3,82	3,23	2,65	2,25	1,95	1,72	1,54	1,40	1,18	1,02	0,89	0,80	0,72	0,66
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	III	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		4,76	3,82	3,23	2,65	2,25	1,95	1,72	1,54	1,40	1,18	1,02	0,89	0,80	0,72	0,66
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
Triple Span	I	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		5,39	4,14	3,23	2,65	2,25	1,95	1,72	1,54	1,40	1,18	1,02	0,89	0,80	0,72	0,66
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	II	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		5,39	4,14	3,23	2,65	2,25	1,95	1,72	1,54	1,40	1,18	1,02	0,89	0,80	0,72	0,66
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	III	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		5,39	4,14	3,23	2,65	2,25	1,95	1,72	1,54	1,40	1,18	1,02	0,89	0,80	0,72	0,66
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60

System	Colour group	Characteristics uplifting load, e.g. wind suction [kN/m²]														
		-0,3	-0,4	-0,5	-0,6	-0,7	-0,8	-0,9	-1,0	-1,2	-1,4	-1,6	-1,8	-2,0	-2,2	-2,4
Single Span	I	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		7,73	7,73	7,20	6,48	5,93	5,50	5,16	4,88	4,42	4,08	3,81	3,59	3,40	3,24	3,10
	II	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		7,73	7,73	7,20	6,48	5,93	5,50	5,16	4,88	4,42	4,08	3,81	3,59	3,40	3,24	3,10
	III	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		7,73	7,14	6,70	6,37	5,93	5,50	5,16	4,87	4,42	4,08	3,81	3,59	3,40	3,24	3,10
Double Span	I	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		6,79	6,47	5,13	4,32	3,76	3,35	3,05	2,80	2,44	2,18	1,98	1,83	1,70	1,59	1,50
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	II	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		6,79	5,78	4,58	3,86	3,38	3,03	2,77	2,56	2,25	2,02	1,85	1,71	1,60	1,51	1,43
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	III	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		4,35	3,12	2,73	2,50	2,33	2,20	2,10	2,01	1,86	1,75	1,66	1,56	1,47	1,39	1,32
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
Triple Span	I	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		9,26	7,90	6,25	5,22	4,50	3,98	3,58	3,26	2,79	2,46	2,22	2,03	1,87	1,75	1,64
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	II	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		9,26	7,44	5,86	4,88	4,21	3,72	3,35	3,05	2,62	2,32	2,09	1,92	1,78	1,66	1,57
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	III	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		9,26	6,71	5,26	4,36	3,75	3,32	2,99	2,74	2,36	2,10	1,91	1,76	1,64	1,55	1,46
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60

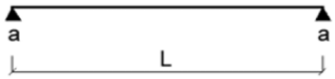
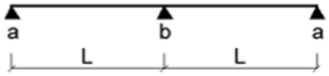
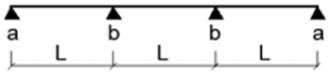
The span widths are calculated according to the proof procedures given in EN 14509.
All loads are regarded as characteristic loads. Element dead loads have been considered in the span calculations.
Possible errors and omissions excepted. Please consider, that this table does not replace a verifi able structural design.

Sandwich panel- SPR CORE PIR 160 T40/T1 0,50/0,40

System	Colour group	Characteristics downward load, e.g. snow load [kN/m²]														
		0,4	0,6	0,8	1,0	1,2	1,4	1,6	1,8	2,0	2,4	2,8	3,2	3,6	4,0	4,4
Single Span	I	40	44	47	48	49	48	47	46	44	42	41	40	41	41	41
		7,42	5,98	4,99	4,24	3,62	3,12	2,69	2,34	2,05	1,64	1,38	1,20	1,07	0,98	0,90
	II	40	44	47	48	49	48	47	46	44	42	41	40	41	41	41
		7,42	5,98	4,99	4,24	3,62	3,12	2,69	2,34	2,05	1,64	1,38	1,20	1,07	0,98	0,90
	III	40	44	47	48	49	48	47	46	44	42	41	40	41	41	41
		7,42	5,98	4,99	4,24	3,62	3,12	2,69	2,34	2,05	1,64	1,38	1,20	1,07	0,98	0,90
Double Span	I	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		5,15	4,06	3,18	2,62	2,22	1,94	1,71	1,53	1,39	1,17	1,01	0,89	0,79	0,72	0,65
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	II	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		5,15	4,06	3,18	2,62	2,22	1,94	1,71	1,53	1,39	1,17	1,01	0,89	0,79	0,72	0,65
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	III	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		5,15	4,06	3,18	2,62	2,22	1,94	1,71	1,53	1,39	1,17	1,01	0,89	0,79	0,72	0,65
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
Triple Span	I	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		5,59	4,06	3,18	2,62	2,22	1,94	1,71	1,53	1,39	1,17	1,01	0,89	0,79	0,72	0,65
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	II	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		5,59	4,06	3,18	2,62	2,22	1,94	1,71	1,53	1,39	1,17	1,01	0,89	0,79	0,72	0,65
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	III	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		5,58	4,06	3,18	2,62	2,22	1,94	1,71	1,53	1,39	1,17	1,01	0,89	0,79	0,72	0,65
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60

System	Colour group	Characteristics uplifting load, e.g. wind suction [kN/m²]														
		-0,3	-0,4	-0,5	-0,6	-0,7	-0,8	-0,9	-1,0	-1,2	-1,4	-1,6	-1,8	-2,0	-2,2	-2,4
Single Span	I	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		9,41	9,00	7,82	7,00	6,40	5,93	5,55	5,24	4,75	4,37	4,08	3,84	3,63	3,46	3,31
	II	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		9,41	9,00	7,82	7,00	6,40	5,93	5,55	5,24	4,75	4,37	4,08	3,84	3,63	3,46	3,31
	III	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		9,41	9,00	7,82	7,00	6,40	5,93	5,55	5,24	4,75	4,37	4,08	3,84	3,63	3,46	3,31
Double Span	I	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		7,34	7,34	5,82	4,84	4,18	3,71	3,35	3,07	2,66	2,37	2,14	1,97	1,83	1,71	1,60
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	II	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		7,33	6,64	5,14	4,28	3,72	3,32	3,02	2,78	2,44	2,18	1,99	1,84	1,71	1,61	1,52
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	III	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		4,30	3,24	2,87	2,64	2,46	2,33	2,22	2,13	1,98	1,86	1,76	1,67	1,56	1,48	1,40
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
Triple Span	I	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		9,88	9,00	7,14	5,88	5,02	4,40	3,94	3,57	3,03	2,66	2,38	2,16	2,00	1,86	1,74
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	II	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		9,87	8,65	6,67	5,47	4,67	4,09	3,66	3,32	2,83	2,48	2,23	2,04	1,88	1,76	1,65
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	III	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		9,87	7,74	5,92	4,83	4,11	3,60	3,23	2,94	2,52	2,24	2,02	1,86	1,73	1,62	1,53
		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60

The sandwich panels have been tested in accordance with EN 14509, and load tables have been developed based on the results obtained; below is how to use them and an example of the table layout and what is included.

Sandwich panel - SPR CORE PIR 60 T40/T 0,50/0,50				
System	Colour group	Characteristics dawnwords load, e.g. snow load [kN/m²]		
			0,25	0,5
Single Span 	I	a	40	40
		L	6,01	4,54
	II	a	40	40
		L	6,01	4,54
	III	a	40	40
		L	6,01	4,54
Double Span 	I	a	40	40
		L	5,21	3,69
		b	60	60
	II	a	40	40
		L	5,21	3,69
		b	60	60
	III	a	40	40
		L	5,21	3,69
		b	60	60
Multi Span 	I	a	40	40
		L	6,04	4,25
		b	60	60
	II	a	40	40
		L	6,04	4,25
		b	60	60
	III	a	40	40
		L	6,04	4,25
		b	60	60

The load tables for sandwich panels provide information on:
1. the maximum allowable span of the panels, resulting from a combined ultimate limit state (ULS) and serviceability limit state (SLS) analysis;
2. the minimum support widths for the outermost supports and also for the intermediate support in multi-span systems;
3. panel spans were calculated for single-span and multi-span static schemes and for different colour groups of cladding and different sheet thicknesses used in a given type of sandwich panel, depending on the characteristic load acting on the panels.

The assumed external loads acting on the sandwich panels are those due to wind and temperature differences in the panel facings and, in the case of roof panels, also from the effects of snow weight, dead weight and service weight. The loads on the surface of the panels are distributed uniformly.

Assumed operating temperatures for panel facings:
1. internal room temperature in winter 20°C
2. room internal temperature in summer 25°C
3. outdoor temperature in winter -20°C .
4. outdoor temperature in summer:
very light colours - group I - 55°C
light colours - group II - 65°C
dark colours - group III - 80°C

Properties of the S280GD steel outer cladding used T1 profiling:
1. yield strength fFt1 = 280 N/mm2
Nominal plate thickness tnom = 0.5 mm

Properties of the S280GD steel T1 profiling inner cladding used:
1. yield strength fFt1 = 280 N/mm2
2. nominal plate thickness tnom = 0.4 mm

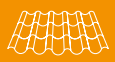
Limitation of deformation:
for maximum deformation:
short term positive = L/200
short term negative = L/200
permanent positive = L/100
permanent negative = L/100

Calculations were made using SandStat version 4.11.000 on 05.06.2025

07/2025/**EN**

Modular roofing tiles
MODULAR SERIES

Compact roofing tiles
COMPACT SERIES



Steel roofing tiles
CLASSIC SERIES

Retro roof tiles
RETRO SERIES

Roof panels
PANEL SERIES

INTEGRATED
PV PANELS

Steel roof gutter system
INGURI

TRAPEZOIDAL
SHEETS

STRUCTURAL
PROFILES

FLAT METAL
SHEETS

FLASHINGS

ACCESORIES

Roof Sandwich
PANELS

Wall Sandwich
PANELS

Facade cladding
SKRIN, LINEA

Uncoiling and slitting
SERVICES

Flat sheets and cutting
SERVICES

PERFORATION
of sheets

BP2 VSS SOLROOF