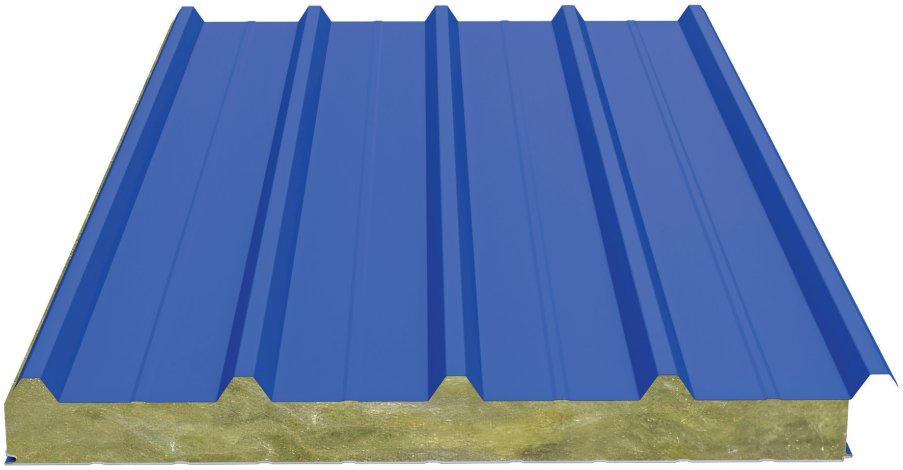
N5T-UK Roof and Wall Panel



Product Information

It can be used safely in buildings where fire risk is high and in buildings where maximum fire reaction class is required. With its five-ribbed form, it enables wide openings to be crossed safely. Roof covering with minimum 7% slope. The product, which can be made, provides advantages in fast assembly thanks to its lateral overlapping panel combination. Mineral wool inner filling It offers high acoustic performance thanks to its material.

Production Plant

UK

Product Application

- Industrial Buildings
- Military Buildings
- Public Buildings
- Agricultural Buildings
- Sports Facilities
- Construction Site Buildings
- Silos
- Hypermarkets
- Shopping Centers
- Storehouse Halls
- Administrative Buildings

and all other concrete structures with steel or prefabricated load bearing systems.

EN.PRR.N4.01

Performance Advantages

It has the good fire resistance values.
It has a joint detail with angle
Fast and trouble-free installation saves both time and labor.
It has high performance in sound insulation as well as heat insulation.
Thanks to its colorful surface, there is no need for additional coatings such as plaster or paint.
There are surface paint (Polyester, PvdF, Plastisol, PVC) options suitable for the place of use.
Color selection can be made from the RAL catalogue.
It does not deteriorate, rot or mold over time.

Measurements

h: 50-60-80-100-120-140-160-180-200 mm

Modular Width	1,000 mm
Minimum Length	2 meters
Maximum Length	Depends on transport conditions.

SmartCore – PIR Properties

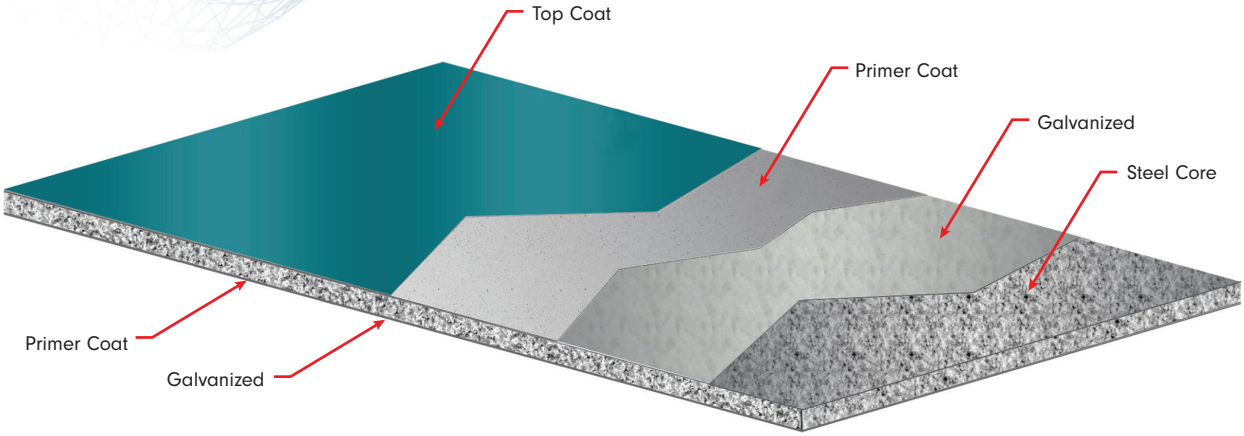
Density (EN 1602)	PIR: 40 (± 2) kg/m^3 & SmartCore-PIR Elite: 41 (± 2) kg/m^3
Thickness	50-60-80-100-120-140-160-180-200 mm
Thermal Conductivity (EN 13165)	PIR Elite-PIR: 0.022-0.024 & SmartCore: 0.018-0.019 W/mK
Reaction to Fire (13501)	PIR Elite: B-s1,d0 & PIR: B-s2,d0

Thermal Conductivity Table

Panel Thickness	U Thermal Conductivity (W/m^{2}K)	R Thermal Conductivity (m^{2}K/W)	R Thermal Conductivity (ft2 °F h/Btu)
50 mm	0,33	3,03	17,20
60 mm	0,28	3,58	20,35
80 mm	0,21	4,70	26,66
100 mm	0,17	5,81	32,97
120 mm	0,14	6,92	39,28
140 mm	0,12	8,03	45,59
160 mm	0,11	9,14	51,90
180 mm	0,10	10,25	58,21
200 mm	0,09	11,36	64,51

The relevant values were calculated based on a value of 0.018 W/m^{2}K.

Metal Surfaces



Prepainted Galvanized Steel Surface

Metal Type	Prepainted Galvanized Steel
External Facing Thickness	0.50-0.80 mm
Internal Facing Thickness	0.40-0.80 mm
Thickness Tolerance (EN 10143)	Nominal
Steel Quality (EN 10327)	Grade (S220GD+Z, S250GD+Z, S280GD+Z, S320GD+Z, S350GD+Z)
Paint Type	Polyester, PvdF, Plastisol

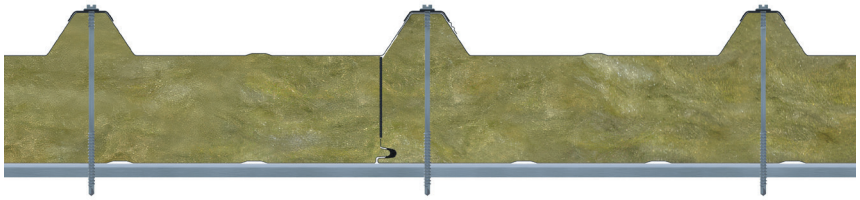
Tolerance Values

Panel Length	Panel Thickness	Panel Cover Width	Rectangularity
If L < = 3,000 mm ± 5 mm If L > 3,000 mm ± 10 mm	D ≤ 100 mm ± 2 mm	± 2 mm for all profiles	s ≤ 0.6% of the nominal cover thickness (w). / (Width x 0.006)

Standard Package

Thickness (mm)	50	60	80	100	120	140	160	180	200
Quantity	18	14	10	9	8	7	6	5	4

Joint Details

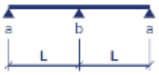


NOVA 5 (MW) ROOF PANEL LOAD SPAN TABLE

SINGLE SPAN

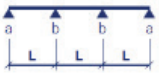
Core Thickness (mm)	Load Type kN/m²	Span length (L) (m)															
		1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00
50	a (mm)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
	Pressure (kN/m²)	2,25	1,67	1,31	1,07	0,91	0,78	0,68	0,60	0,53	0,48	0,43	0,39	0,36	-	-	-
	Suction (kN/m²)	-3,10	-2,46	-2,04	-1,75	-1,53	-1,36	-1,22	-1,04	-0,90	-0,79	-0,69	-0,62	-0,56	-	-	-
60	a (mm)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
	Pressure (kN/m²)	2,48	1,85	1,47	1,20	1,01	0,88	0,77	0,68	0,61	0,55	0,49	0,45	0,41	0,38	0,35	-
	Suction (kN/m²)	-3,64	-2,89	-2,40	-2,06	-1,81	-1,61	-1,41	-1,19	-1,03	-0,90	-0,80	-0,71	-0,64	-0,58	-0,53	-
80	a (mm)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
	Pressure (kN/m²)	2,93	2,22	1,77	1,47	1,24	1,07	0,95	0,85	0,76	0,68	0,62	0,57	0,52	0,48	0,44	0,41
	Suction (kN/m²)	-4,66	-3,73	-3,11	-2,68	-2,35	-2,10	-1,78	-1,51	-1,30	-1,13	-1,13	-0,90	-0,80	-0,73	-0,66	-0,61
100	a (mm)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
	Pressure (kN/m²)	3,39	2,59	2,08	1,73	1,48	1,28	1,13	1,13	0,91	0,82	0,75	0,69	0,63	0,58	0,54	0,50
	Suction (kN/m²)	-5,66	-4,55	-3,81	-3,28	-2,88	-2,58	-2,15	-1,82	-1,57	-1,37	-1,20	-1,07	-0,97	-0,88	-0,80	-0,73
120	a (mm)	43	41	40	40	40	40	40	40	40	40	40	40	40	40	40	40
	Pressure (kN/m²)	3,84	2,96	2,39	2,00	1,71	1,49	1,31	1,17	1,05	0,96	0,88	0,81	0,74	0,69	0,64	0,59
	Suction (kN/m²)	-6,63	-5,35	-4,49	-3,87	-3,41	-3,04	-2,53	-2,14	-1,84	-1,60	-1,41	-1,25	-1,13	-1,02	-0,93	-0,86
150	a (mm)	51	48	47	45	44	44	43	43	42	42	42	42	42	42	41	41
	Pressure (kN/m²)	4,53	3,52	2,86	2,40	2,06	1,80	1,59	1,42	1,28	1,16	1,06	0,99	0,91	0,84	0,78	0,73
	Suction (kN/m²)	-8,08	-6,54	-5,50	-4,76	-4,19	-3,71	-3,09	-2,61	-2,25	-1,95	-1,72	-1,53	-1,37	-1,24	-1,13	-1,03
170	a (mm)	57	53	51	50	49	48	48	48	47	47	47	46	46	47	46	46
	Pressure (kN/m²)	4,98	3,89	3,17	2,67	2,29	2,00	1,77	1,59	1,43	1,30	1,19	1,09	1,01	0,95	0,88	0,82
	Suction (kN/m²)	-9,03	-7,33	-6,17	-5,34	-4,71	-4,16	-3,46	-2,93	-2,52	-2,19	-1,93	-1,71	-1,54	-1,39	-1,26	-1,16

DOUBLE SPAN



Core Thickness (mm)	Load Type kN/m²	Span length (m)															
		1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00
50	a (mm)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
	Pressure (kN/m²)	2,25	1,67	1,31	1,07	0,91	0,78	0,68	0,60	0,53	0,48	-	-	-	-	-	-
	Suction (kN/m²)	-3,10	-2,46	-2,04	-1,75	-1,53	-1,36	-1,22	-1,04	-0,90	-0,79	-	-	-	-	-	-
	b (mm)	82	73	67	63	61	60	60	60	60	60	60	60	60	60	60	60
60	a (mm)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
	Pressure (kN/m²)	2,48	1,85	1,47	1,20	1,01	0,88	0,77	0,68	0,61	0,55	0,49	-	-	-	-	-
	Suction (kN/m²)	-3,64	-2,89	-2,40	-2,06	-1,81	-1,61	-1,41	-1,19	-1,03	-0,90	-0,80	-	-	-	-	-
	b (mm)	89	80	74	70	68	66	65	63	62	61	60	60	60	60	60	60
80	a (mm)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
	Pressure (kN/m²)	2,93	2,22	1,77	1,47	1,24	1,07	0,95	0,85	0,76	0,68	0,62	-	-	-	-	-
	Suction (kN/m²)	-4,66	-3,73	-3,11	-2,68	-2,35	-2,10	-1,78	-1,51	-1,30	-1,13	-1,13	-	-	-	-	-
	b (mm)	104	94	88	85	82	80	78	77	76	74	74	60	60	60	60	60
100	a (mm)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
	Pressure (kN/m²)	3,39	2,59	2,08	1,73	1,48	1,28	1,13	1,13	0,91	0,82	0,75	0,69	-	-	-	-
	Suction (kN/m²)	-5,66	-4,55	-3,81	-3,28	-2,88	-2,58	-2,15	-1,82	-1,57	-1,37	-1,20	-1,20	-	-	-	-
	b (mm)	121	111	104	99	96	94	92	90	90	88	88	87	60	60	60	60
120	a (mm)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
	Pressure (kN/m²)	3,84	2,96	2,39	2,00	1,71	1,49	1,31	1,17	1,05	0,96	0,88	0,81	0,73	-	-	-
	Suction (kN/m²)	-6,63	-5,35	-4,49	-3,87	-3,39	-2,94	-2,53	-2,14	-1,84	-1,60	-1,41	-1,25	-1,25	-	-	-
	b (mm)	140	130	123	118	115	112	110	108	107	106	106	105	102	60	60	60
150	a (mm)	47	42	40	40	40	40	40	40	40	40	40	40	40	40	40	40
	Pressure (kN/m²)	4,52	3,52	2,86	2,40	2,06	1,80	1,59	1,42	1,28	1,13	1,13	0,92	0,82	0,74	-	-
	Suction (kN/m²)	-8,07	-6,54	-5,43	-4,53	-3,87	-3,36	-2,97	-2,61	-2,25	-1,95	-1,72	-1,53	-1,37	-1,37	-	-
	b (mm)	169	159	151	146	143	140	137	136	134	129	124	123	119	115	60	60
170	a (mm)	57	51	48	45	43	42	41	40	40	40	40	40	40	40	40	40
	Pressure (kN/m²)	4,98	3,89	3,17	2,67	2,29	2,00	1,77	1,56	1,37	1,21	1,07	0,98	0,88	0,79	-	-
	Suction (kN/m²)	-9,02	-7,19	-5,84	-4,88	-4,17	-3,63	-3,20	-2,86	-2,52	-2,19	-1,93	-1,71	-1,54	-1,39	-	-
	b (mm)	189	178	170	165	161	158	155	151	145	140	135	134	130	125	61	61

TRIPLE SPAN



Core Thickness (mm)	Load Type kN/m²	Span length (m)															
		1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00
50	a (mm)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
	Pressure (kN/m²)	2,25	1,67	1,31	1,07	0,91	0,78	0,68	0,60	0,53	0,48	0,43	0,39	0,36	0,33	0,30	-
	Suction (kN/m²)	-3,10	-2,46	-2,04	-1,75	-1,53	-1,36	-1,22	-1,04	-0,90	-0,79	-0,69	-0,62	-0,56	-0,51	-0,46	-
	b (mm)	82	73	67	63	61	60	60	60	60	60	60	60	60	60	60	60
60	a (mm)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
	Pressure (kN/m²)	2,48	1,85	1,47	1,20	1,01	0,88	0,77	0,68	0,61	0,55	0,49	0,45	0,41	0,38	0,35	0,32
	Suction (kN/m²)	-3,64	-2,89	-2,40	-2,06	-1,81	-1,61	-1,41	-1,19	-1,03	-0,90	-0,80	-0,71	-0,64	-0,58	-0,53	-0,49
	b (mm)	89	80	74	70	66	65	63	62	61	60	60	60	60	60	60	60
80	a (mm)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
	Pressure (kN/m²)	2,93	2,22	1,77	1,47	1,24	1,07	0,95	0,85	0,76	0,68	0,62	0,57	0,52	0,48	0,44	0,41
	Suction (kN/m²)	-4,66	-3,73	-3,11	-2,68	-2,35	-2,10	-1,78	-1,51	-1,30	-1,13	-1,13	-0,90	-0,80	-0,73	-0,66	-0,61
	b (mm)	104	94	87	83	80	77	76	76	74	72	72	72	70	70	69	69
100	a (mm)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
	Pressure (kN/m²)	3,39	2,59	2,08	1,73	1,48	1,28	1,13	1,13	0,91	0,82	0,75	0,69	0,63	0,58	0,54	0,50
	Suction (kN/m²)	-5,66	-4,55	-3,81	-3,28	-2,88	-2,58	-2,15	-1,82	-1,57	-1,37	-1,20	-1,07	-0,97	-0,88	-0,80	-0,73
	b (mm)	121	111	104	99	96	94	92	90	90	88	88	87	86	85	85	84
120	a (mm)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
	Pressure (kN/m²)	3,84	2,96	2,39	2,00	1,71	1,49	1,31	1,17	1,05	0,96	0,88	0,81	0,74	0,69	0,64	0,59
	Suction (kN/m²)	-6,63	-5,35	-4,49	-3,87	-3,41	-3,04	-2,53	-2,14	-1,84	-1,60	-1,41	-1,25	-1,13	-1,02	-0,93	-0,86
	b (mm)	140	130	123	118	115	112	110	108	107	106	106	105	104	104	103	102
150	a (mm)	47	42	40	40	40	40	40	40	40	40	40	40	40	40	40	40
	Pressure (kN/m²)	4,52	3,52	2,86	2,40	2,06	1,80	1,59	1,42	1,28	1,16	1,06	0,99	0,91	0,84	0,78	0,73
	Suction (kN/m²)	-8,07	-6,54	-5,50	-4,76	-4,19	-3,71	-3,09	-2,61	-2,25	-1,95	-1,72	-1,53	-1,37	-1,24	-1,13	-1,03
	b (mm)	169	159	151	146	143	140	137	136	134	132	131	133	131	130	129	129
170	a (mm)	57	51	48	45	43	41	41	40	40	40	40	40	40	40	40	40
	Pressure (kN/m²)	4,98	3,89	3,17	2,67	2,29	2,00	1,77	1,59	1,43	1,30	1,19	1,09	1,01	0,95	0,87	0,80
	Suction (kN/m²)	-9,02	-7,32	-6,17	-5,34	-4,70	-4,13	-3,46	-2,93	-2,52	-2,19	-1,93	-1,71	-1,54	-1,39	-1,26	-1,16
	b (mm)	189	178	170	165	161	158	155	154	152	151	150	148	148	149	146	144

02/2026

Notes:

1 Steel thickness ext/int: 0,50/0,40mm

2 Values have been calculated using the method described in EN 14509, for color group 1 (very light colors)

3 Values have been calculated using the limit state method described in EN 14509: 2013. Taking imposed loads, temperature and creep into account. 4 The following deflection limits have been used:
Pressure loading L/200
Suction loading L/200

5 Design criteria Safety factors on loads: ULS 1.5 (variable) 1.35 (permanent) / SLS 1.

Safety factors on material: Wrinkling of face: ULS 1.25 / SLS 1.1. Shear of core: ULS 1.3 / SLS 1.08. SLS Summer temperature: Outside 55°C / Inside 25°C,
Winter temperature: Outside -20°C / Inside -25°C.

6 In order to conduct the calculations some data from table E6 and rates originating from table E8 stipulated in a standard EN 14509 were applied. 7 The loads calculated in the load-span table are unfactored loads. 8 The actual wind suction resisted by the panel is dependent on the number of fasteners.

9 The fastener calculation should be carried out in accordance with the appropriate standards.

10 For intermediate values linear interpolation may be used.

11 The allowable steelwork tolerance between bearing planes of adjacent supports have to be alligned with EN1090

12 Tables are informative. for project real case calculation must be performed.

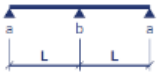
AssanPanel

NOVA 5 (MW) WALL PANEL LOAD SPAN TABLE

SINGLE SPAN

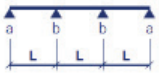
Core Thickness (mm)	Load Type kN/m²	Span length (L) (m)															
		1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00
40	a (mm)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
	Pressure (kN/m²)	2,13	1,66	1,36	1,15	1,15	0,90	0,81	0,73	0,67	0,61	0,57	0,53	0,49	0,46	0,44	0,41
	Suction (kN/m²)	-2,47	-1,93	-1,58	-1,34	-1,16	-1,02	-0,93	-0,82	-0,70	-0,60	-0,52	-0,45	-0,40	-0,36	-0,32	-0,29
50	a (mm)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
	Pressure (kN/m²)	2,72	2,14	1,76	1,49	1,30	1,15	1,03	0,95	0,87	0,80	0,74	0,69	0,64	0,60	0,57	0,54
	Suction (kN/m²)	-3,02	-2,37	-1,95	-1,66	-1,44	-1,27	-1,14	-0,97	-0,82	-0,71	-0,61	-0,54	-0,48	-0,42	-0,38	-0,34
60	a (mm)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
	Pressure (kN/m²)	3,27	2,58	2,13	1,82	1,58	1,40	1,26	1,14	1,04	0,97	0,90	0,84	0,79	0,74	0,70	0,66
	Suction (kN/m²)	-3,54	-2,80	-2,31	-1,97	-1,71	-1,52	-1,33	-1,11	-0,95	-0,82	-0,71	-0,62	-0,55	-0,49	-0,44	-0,40
80	a (mm)	47	44	43	42	41	41	40	40	40	40	40	40	40	40	40	40
	Pressure (kN/m²)	4,33	3,44	2,86	2,44	2,13	1,89	1,70	1,54	1,41	1,30	1,21	1,13	1,05	1,05	0,95	0,90
	Suction (kN/m²)	-4,55	-3,62	-3,00	-2,57	-2,24	-1,99	-1,68	-1,41	-1,20	-1,03	-0,90	-0,79	-0,70	-0,62	-0,56	-0,50
100	a (mm)	60	55	53	52	51	51	50	50	49	49	49	49	49	48	48	48
	Pressure (kN/m²)	5,34	4,27	3,55	3,04	2,66	2,37	2,13	1,93	1,77	1,64	1,52	1,42	1,33	1,25	1,18	1,12
	Suction (kN/m²)	-5,53	-4,42	-3,69	-3,16	-2,76	-2,45	-2,04	-1,71	-1,45	-1,25	-1,09	-0,96	-0,85	-0,76	-0,68	-0,61
120	a (mm)	80	75	72	69	68	66	65	64	64	63	62	62	62	61	61	60
	Pressure (kN/m²)	6,32	5,07	4,24	3,64	3,19	2,83	2,55	2,32	2,13	1,96	1,82	1,70	1,60	1,50	1,42	1,34
	Suction (kN/m²)	-6,50	-5,22	-4,36	-3,74	-3,27	-2,91	-2,40	-2,01	-1,71	-1,47	-1,28	-1,12	-1,12	-0,89	-0,80	-0,72
150	a (mm)	109	104	100	98	96	94	93	92	91	91	90	90	89	89	88	88
	Pressure (kN/m²)	7,76	6,26	5,24	4,51	3,96	3,52	3,18	2,89	2,65	2,45	2,28	2,13	1,99	1,88	1,77	1,68
	Suction (kN/m²)	-7,92	-6,38	-5,35	-4,60	-4,04	-3,57	-2,94	-2,47	-2,10	-1,81	-1,57	-1,38	-1,22	-1,09	-0,99	-0,89
170	a (mm)	129	123	120	117	115	113	112	111	110	109	109	108	108	107	107	106
	Pressure (kN/m²)	8,71	7,04	5,91	5,09	4,47	3,98	3,59	3,27	3,00	2,77	2,58	2,41	2,26	2,13	2,01	1,90
	Suction (kN/m²)	-8,86	-7,16	-6,00	-5,17	-4,54	-4,01	-3,30	-2,77	-2,36	-2,03	-1,76	-1,55	-1,37	-1,22	-1,10	-1,10

DOUBLE SPAN



Core Thickness (mm)	Load Type kN/m²	Span length (m)															
		1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00
40	a (mm)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
	Pressure (kN/m²)	2,13	1,66	1,36	1,15	1,15	0,90	0,62	0,44	0,31	0,23	0,17	0,13	0,10	0,08	0,06	0,05
	Suction (kN/m²)	-2,47	-1,93	-1,58	-1,34	-1,16	-1,02	-0,93	-0,82	-0,70	-0,60	-0,52	-0,45	-0,40	-0,36	-0,32	-0,29
	b (mm)	75	69	65	63	61	61	60	60	60	60	60	60	60	60	60	60
50	a (mm)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
	Pressure (kN/m²)	2,72	2,14	1,76	1,49	1,30	1,02	0,76	0,53	0,38	0,27	0,20	0,15	0,12	0,09	0,07	0,06
	Suction (kN/m²)	-3,02	-2,37	-1,95	-1,66	-1,44	-1,27	-1,14	-0,97	-0,82	-0,71	-0,61	-0,54	-0,48	-0,42	-0,38	-0,34
	b (mm)	96	90	86	83	81	68	60	60	60	60	60	60	60	60	60	60
60	a (mm)	43	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
	Pressure (kN/m²)	3,27	2,58	2,13	1,82	1,58	1,28	0,93	0,64	0,45	0,33	0,24	0,18	0,14	0,11	0,08	0,06
	Suction (kN/m²)	-3,54	-2,79	-2,31	-1,97	-1,71	-1,47	-1,26	-1,11	-0,95	-0,82	-0,71	-0,62	-0,55	-0,49	-0,44	-0,40
	b (mm)	116	109	105	102	99	87	68	60	60	60	60	60	60	60	60	60
80	a (mm)	54	52	50	48	46	45	40	40	40	40	40	40	40	40	40	40
	Pressure (kN/m²)	4,33	3,44	2,86	2,44	2,13	1,89	1,24	0,94	0,66	0,47	0,35	0,26	0,19	0,15	0,11	0,09
	Suction (kN/m²)	-4,55	-3,62	-2,99	-2,43	-2,02	-1,72	-1,49	-1,31	-1,16	-1,03	-0,90	-0,79	-0,70	-0,62	-0,56	-0,50
	b (mm)	155	147	142	137	135	132	89	75	61	60	60	60	60	60	60	60
100	a (mm)	66	63	61	59	57	55	47	40	40	40	40	40	40	40	40	40
	Pressure (kN/m²)	5,34	4,27	3,55	3,04	2,66	2,37	1,78	1,18	0,92	0,66	0,49	0,36	0,27	0,21	0,16	0,12
	Suction (kN/m²)	-5,53	-4,33	-3,39	-2,75	-2,30	-1,96	-1,70	-1,50	-1,33	-1,20	-1,08	-0,96	-0,85	-0,76	-0,68	-0,61
	b (mm)	194	185	179	174	171	169	136	93	81	66	60	60	60	60	60	60
120	a (mm)	80	75	72	70	67	66	62	48	40	40	40	40	40	40	40	40
	Pressure (kN/m²)	6,32	5,07	4,24	3,64	3,18	2,83	2,42	1,63	1,11	0,89	0,66	0,49	0,37	0,28	0,22	0,17
	Suction (kN/m²)	-6,40	-4,80	-3,77	-3,06	-2,56	-2,19	-1,90	-1,67	-1,49	-1,34	-1,21	-1,11	-1,11	-0,89	-0,80	-0,72
	b (mm)	234	225	218	214	210	207	193	135	96	85	71	60	60	60	60	60
150	a (mm)	109	104	100	98	90	84	79	70	55	45	41	40	40	40	40	40
	Pressure (kN/m²)	7,76	6,26	5,24	4,51	3,80	3,27	2,85	2,43	1,69	1,19	0,97	0,73	0,55	0,42	0,33	0,25
	Suction (kN/m²)	-7,25	-5,47	-4,31	-3,51	-2,93	-2,51	-2,18	-1,92	-1,71	-1,54	-1,40	-1,28	-1,17	-1,08	-0,99	-0,89
	b (mm)	293	283	276	271	256	243	232	214	155	112	98	83	70	60	60	60
170	a (mm)	129	123	119	109	101	94	89	84	67	54	45	42	40	40	40	40
	Pressure (kN/m²)	8,71	7,04	5,88	4,85	4,10	3,52	3,08	2,72	2,14	1,52	1,09	0,91	0,69	0,53	0,41	0,32
	Suction (kN/m²)	-7,79	-5,89	-4,65	-3,79	-3,17	-2,71	-2,36	-2,08	-1,85	-1,67	-1,51	-1,38	-1,27	-1,17	-1,09	-1,09
	b (mm)	332	321	313	293	278	264	253	243	203	150	110	100	84	72	62	60

TRIPLE SPAN



Core Thickness (mm)	Load Type kN/m²	Span length (m)															
		1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00
40	a (mm)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
	Pressure (kN/m²)	2,13	1,66	1,36	1,15	1,15	0,90	0,81	0,73	0,67	0,61	0,55	0,46	0,40	0,34	0,30	0,27
	Suction (kN/m²)	-2,47	-1,93	-1,58	-1,34	-1,16	-1,02	-0,93	-0,82	-0,70	-0,60	-0,52	-0,45	-0,40	-0,36	-0,32	-0,29
	b (mm)	75	69	65	63	61	61	60	60	60	60	60	60	60	60	60	60
50	a (mm)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
	Pressure (kN/m²)	2,72	2,14	1,76	1,49	1,30	1,15	1,03	0,95	0,87	0,75	0,62	0,53	0,45	0,39	0,34	0,30
	Suction (kN/m²)	-3,02	-2,37	-1,95	-1,66	-1,44	-1,27	-1,14	-0,97	-0,82	-0,71	-0,61	-0,54	-0,48	-0,42	-0,38	-0,34
	b (mm)	96	90	86	83	81	79	78	78	78	71	61	60	60	60	60	60
60	a (mm)	44	41	40	40	40	40	40	40	40	40	40	40	40	40	40	40
	Pressure (kN/m²)	3,27	2,58	2,13	1,82	1,58	1,40	1,26	1,14	1,14	0,85	0,71	0,60	0,51	0,44	0,39	0,34
	Suction (kN/m²)	-3,54	-2,79	-2,31	-1,97	-1,71	-1,52	-1,33	-1,11	-0,95	-0,82	-0,71	-0,62	-0,55	-0,49	-0,44	-0,40
	b (mm)	116	109	105	102	99	97	96	95	89	80	70	61	60	60	60	60
80	a (mm)	57	53	50	48	46	45	43	42	40	40	40	40	40	40	40	40
	Pressure (kN/m²)	4,33	3,44	2,86	2,44	2,13	1,89	1,70	1,54	1,23	1,23	0,89	0,75	0,64	0,56	0,48	0,43
	Suction (kN/m²)	-4,55	-3,62	-3,00	-2,57	-2,24	-1,99	-1,68	-1,41	-1,20	-1,03	-0,90	-0,79	-0,70	-0,62	-0,56	-0,50
	b (mm)	155	147	142	137	135	132	131	129	108	92	87	76	67	60	60	60
100	a (mm)	69	65	62	59	57	55	54	52	46	40	40	40	40	40	40	40
	Pressure (kN/m²)	5,34	4,27	3,55	3,04	2,66	2,37	2,13	1,93	1,54	1,23	1,01	0,92	0,79	0,68	0,59	0,52
	Suction (kN/m²)	-5,53	-4,42	-3,68	-3,16	-2,76	-2,45	-2,04	-1,71	-1,45	-1,25	-1,09	-0,96	-0,85	-0,76	-0,68	-0,61
	b (mm)	194	185	179	174	171	169	167	165	139	116	99	96	85	75	67	60
120	a (mm)	80	76	73	70	68	66	65	64	55	49	43	40	40	40	40	40
	Pressure (kN/m²)	6,32	5,07	4,24	3,64	3,18	2,83	2,55	2,32	1,87	1,50	1,22	1,01	0,94	0,81	0,70	0,61
	Suction (kN/m²)	-6,49	-5,21	-4,35	-3,74	-3,21	-2,78	-2,40	-2,01	-1,71	-1,47	-1,28	-1,12	-1,12	-0,89	-0,80	-0,72
	b (mm)	234	225	218	214	210	207	205	203	174	147	125	108	106	95	84	75
150	a (mm)	109	104	100	98	96	94	93	92	79	62	55	49	45	43	40	40
	Pressure (kN/m²)	7,76	6,26	5,24	4,51	3,96	3,52	3,18	2,89	2,42	1,93	1,58	1,30	1,10	1,10	0,88	0,77
	Suction (kN/m²)	-7,92	-6,24	-5,04	-4,21	-3,60	-3,13	-2,76	-2,46	-2,10	-1,81	-1,57	-1,38	-1,22	-1,09	-0,99	-0,89
	b (mm)	293	283	276	271	267	264	262	259	233	197	169	146	128	123	112	101
170	a (mm)	129	123	119	117	115	113	112	110	100	79	63	57	52	47	46	43
	Pressure (kN/m²)	8,71	7,04	5,90	5,09	4,46	3,98	3,59	3,25	2,82	2,25	1,83	1,51	1,27	1,07	1,07	0,88
	Suction (kN/m²)	-8,57	-6,64	-5,37	-4,49	-3,84	-3,34	-2,95	-2,64	-2,36	-2,03	-1,76	-1,55	-1,37	-1,22	-1,10	-1,10
	b (mm)	332	321	314	309	304	301	299	295	276	233	200	173	152	133	131	119

02/2026

Notes:

1 Steel thickness ext/int: 0,50/0,40mm

2 Values have been calculated using the method described in EN 14509, for color group 3 (DARK colors)

3 Values have been calculated using the limit state method described in EN 14509: 2013. Taking imposed loads, temperature and creep into account. 4 The following deflection limits have been used:
Pressure loading L/100
Suction loading L/100

5 Design criteria Safety factors on loads: ULS 1.5 (variable) 1.35 (permanent) / SLS 1.
Safety factors on material: Wrinkling of face: ULS 1.25 / SLS 1.1. Shear of core: ULS 1.3 / SLS 1.08. SLS Summer temperature: Outside 55°C / Inside 25°C,
Winter temperature: Outside -20°C / Inside -25°C.

6 In order to conduct the calculations some data from table E6 and rates originating from table E8 stipulated in a standard EN 14509 were applied.

7 The loads calculated in the load-span table are unfactored loads.

8 The actual wind suction resisted by the panel is dependent on the number of fasteners.

9 The fastener calculation should be carried out in accordance with the appropriate standards.

10 For intermediate values linear interpolation may be used.

11 The allowable steelwork tolerance between bearing planes of adjacent supports have to be alligned with EN1090

12 Tables are informative. for project real case calculation must be performed.