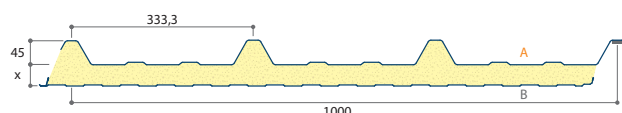
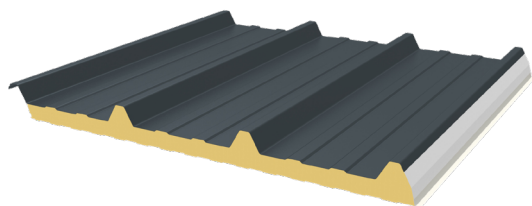


Insulated panels

JI ROOF 1000

JI

The JI Roof 1000 Trapezoidal Insulated Roof Panel is used for pitched roofs or horizontal and vertical wall applications, and as an external insulated cladding panel for industrial, commercial and public buildings. Due to its rigid PIR core and metal inner and outer sheet, it combines thermal resistance with large spanning capability. The minimum roof pitch to be applied is 4° or more after deflection.



Product	Thickness (mm)	Weight (kg/m ²)	U (W/(m ² .K))
9221	30	10,38	0,65
46	40	10,76	0,50
48	60	11,52	0,34
49	80	12,28	0,25
50	100	13,04	0,20
1922	120	13,78	0,16
3188	150	14,94	0,14

U-value according to EN 14509: 2013 - Impact of thermal cold bridge due to screws available upon request.

Technical characteristics

Standard length	from 2550 to 20500 mm
Effective width	1000 mm
Type of metal	Steel S280 GD
Outer plate (A)	trapezoidal steel plate, type 45-333-1000, thickness: 0,60 mm (0,50 and 0,70 mm available on request)
Coatings	Essential (25 µ), HPS 200 Ultra®, Ultra-X (70-75 µ), Ultra 60 according to color chart MR101_Colorflow
Inner plate (B)	lightly profiled steel plate, thickness: 0,40 mm, RAL 9002 15µ (for other options, contact sales department)
Fastening	with support bracket on the wave
Roof pitch	≥ 5°
Accessories	skylights, support brackets, folding work, filler strips, etc., see brochure MR036_Accessories

References

Galvanized steel	EN 10346:2015 - tolerances according to EN 10143:2006
Pre-painted steel	EN 10169:2022
Dimensions / Tolerances	EN 14509:2013 (Geometry)
Static calculation	EN 14509:2013

Insulation

Core	Polyisocyanurate (PIR), density: 40 ± 5 kg/m ³ , without CFC-HCFC
Fire class	B-s2,d0 according to EN 13501-1:2019

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Certificates

Mechanical	Z-10.49-691
Environment	EPD-PPA-20180076-CBG1-EN
Optional	FM-Approval - Certificate N° 0003059142, with reference "JI Roof 1000_2 PIR"

Advantages

- + Quick assembly
- + Delivery with a clean end overlap
- + Good thermal properties

Load Tables (in kN/m²)

The load tables are valid for roof application. Panel self-weight has been taken into account. Design method according to the annex E of standard BS EN 14509:2013. For intermediate values, linear interpolation may be used. The allowable load depends on the number of supports and the (unweighted) loads calculated according to Eurocode. In the case of double or triple span conditions, this load table can only be used when all spans are equal or when the difference between the spans is less than 10%. The considered deflection limit is L/200. The table applies to buildings with a normal indoor climate (e.g., no refrigerated or freezer halls). The influence of creep (due to long-term loading) was not taken into account. The calculation of fasteners has not been included. Please consult the Technical Department for any questions.

↓ ↓ Permissible downward load (kN/m²) for span (m)

Colour Group 1, 2

		Thickness (mm)				Span (m)															
		1,30	1,40	1,50	1,60	1,70	1,80	1,90	2,00	2,10	2,20	2,30	2,40	2,50	2,60	2,70	2,80	2,90	3,00	3,10	3,20
Single	30	3,20	2,79	2,47	2,20	1,98	1,79	1,63	1,48	1,36	1,24	1,15	1,06	0,95	0,80	0,64	0,49	0,38	0,26		
	40	3,41	3,15	2,88	2,58	2,34	2,14	1,97	1,80	1,66	1,54	1,43	1,33	1,23	1,16	1,08	1,00	0,95	0,89	0,84	0,78
	60	3,81	3,54	3,30	3,10	2,89	2,67	2,48	2,32	2,16	2,01	1,89	1,77	1,67	1,57	1,48	1,40	1,32	1,24	1,18	1,13
	80	4,00	3,72	3,47	3,25	3,06	2,89	2,74	2,61	2,47	2,35	2,23	2,11	2,00	1,90	1,80	1,71	1,63	1,54	1,47	1,40
	100	4,16	3,86	3,60	3,38	3,18	3,00	2,85	2,70	2,58	2,46	2,35	2,25	2,17	2,08	2,00	1,91	1,83	1,74	1,67	1,60
	120	4,32	4,01	3,74	3,51	3,30	3,12	2,96	2,81	2,68	2,55	2,44	2,34	2,24	2,16	2,08	2,00	1,94	1,88	1,82	1,75
	150	4,50	4,18	3,90	3,66	3,44	3,25	3,08	2,93	2,79	2,66	2,55	2,44	2,35	2,25	2,17	2,10	2,02	1,95	1,89	1,83
Double	30	1,93	1,78	1,66	1,55	1,45	1,37	1,29	1,22	1,17	1,11	1,06	1,00	0,94	0,89	0,83	0,78	0,73	0,69	0,65	0,61
	40	3,41	3,15	2,88	2,58	2,34	2,14	1,97	1,80	1,66	1,54	1,43	1,33	1,23	1,16	1,08	1,00	0,95	0,89	0,84	0,79
	60	3,81	3,54	3,30	3,10	2,89	2,67	2,48	2,32	2,16	2,01	1,89	1,77	1,67	1,57	1,48	1,40	1,32	1,24	1,18	1,13
	80	4,00	3,72	3,47	3,25	3,06	2,89	2,74	2,61	2,47	2,35	2,22	2,09	1,96	1,85	1,73	1,63	1,53	1,45	1,37	1,30
	100	4,16	3,86	3,60	3,38	3,18	3,00	2,85	2,70	2,58	2,46	2,35	2,25	2,12	1,99	1,87	1,75	1,66	1,56	1,48	1,41
	120	4,32	4,01	3,74	3,51	3,30	3,12	2,96	2,81	2,68	2,55	2,44	2,34	2,24	2,12	2,00	1,89	1,78	1,69	1,60	1,52
	150	4,50	4,18	3,90	3,66	3,44	3,25	3,08	2,93	2,79	2,66	2,55	2,44	2,35	2,25	2,15	2,05	1,95	1,84	1,74	1,66
Multiple	30	1,93	1,78	1,66	1,55	1,45	1,37	1,29	1,22	1,17	1,11	1,06	1,00	0,94	0,89	0,83	0,78	0,73	0,69	0,65	0,61
	40	3,41	3,15	2,88	2,58	2,34	2,14	1,97	1,80	1,66	1,54	1,43	1,33	1,23	1,16	1,08	1,00	0,95	0,89	0,84	0,79
	60	3,81	3,54	3,30	3,10	2,89	2,67	2,48	2,32	2,16	2,01	1,89	1,77	1,67	1,57	1,48	1,40	1,32	1,24	1,18	1,13
	80	4,00	3,72	3,47	3,25	3,06	2,89	2,74	2,61	2,47	2,35	2,23	2,11	2,00	1,90	1,80	1,71	1,63	1,54	1,47	1,40
	100	4,16	3,86	3,60	3,38	3,18	3,00	2,85	2,70	2,58	2,46	2,35	2,25	2,17	2,08	2,00	1,91	1,83	1,74	1,67	1,60
	120	4,32	4,01	3,74	3,51	3,30	3,12	2,96	2,81	2,68	2,55	2,44	2,34	2,24	2,16	2,08	2,00	1,94	1,88	1,82	1,75
	150	4,50	4,18	3,90	3,66	3,44	3,25	3,08	2,93	2,79	2,66	2,55	2,44	2,35	2,25	2,17	2,10	2,02	1,95	1,89	1,83

For thicknesses from 30 to 120 mm, the minimum end and intermediate support widths are 50 mm.
For a thickness of 150 mm, these are 50 and 100 mm, respectively. Calculations with colour group 3 available upon request.





Permissible upward load (kN/m²) for span (m)

Colour Group 1, 2

Thickness (mm)		Span (m)																			
		1,30	1,40	1,50	1,60	1,70	1,80	1,90	2,00	2,10	2,20	2,30	2,40	2,50	2,60	2,70	2,80	2,90	3,00	3,10	3,20
Single	30	3,75	3,33	2,94	2,65	2,40	2,17	1,98	1,83	1,69	1,57	1,46	1,37	1,27	1,15	1,03	0,92	0,82	0,73	0,64	0,56
	40	4,25	3,79	3,41	3,09	2,83	2,59	2,38	2,20	2,05	1,91	1,79	1,68	1,58	1,48	1,41	1,33	1,25	1,19	1,14	1,08
	60		4,85	4,43	4,09	3,78	3,53	3,30	3,08	2,89	2,72	2,56	2,42	2,29	2,17	2,07	1,96	1,87	1,78	1,70	1,62
	80				4,97	4,67	4,39	4,13	3,90	3,69	3,50	3,32	3,16	3,00	2,86	2,73	2,61	2,49	2,39	2,28	2,19
	100							4,88	4,64	4,42	4,21	4,02	3,85	3,68	3,52	3,38	3,24	3,11	2,98	2,86	2,75
	120										4,94	4,75	4,56	4,38	4,20	4,03	3,88	3,74	3,59	3,42	3,21
Double	30	3,75	3,33	2,94	2,65	2,40	2,17	1,98	1,83	1,69	1,57	1,46	1,37	1,27	1,20	1,13	1,06	1,00	0,95	0,90	0,86
	40	4,25	3,79	3,41	3,09	2,83	2,59	2,38	2,20	2,05	1,91	1,79	1,68	1,58	1,48	1,41	1,33	1,25	1,19	1,14	1,08
	60		4,40	3,92	3,50	3,19	2,90	2,66	2,45	2,27	2,11	1,96	1,85	1,73	1,64	1,55	1,47	1,41	1,34	1,27	1,22
	80	4,88	4,31	3,85	3,46	3,14	2,88	2,65	2,45	2,27	2,12	1,98	1,86	1,74	1,66	1,57	1,49	1,42	1,36	1,29	1,23
	100	4,69	4,15	3,71	3,36	3,03	2,78	2,56	2,38	2,21	2,06	1,93	1,81	1,71	1,62	1,53	1,46	1,39	1,33	1,26	1,22
	120	4,75	4,25	3,79	3,44	3,14	2,88	2,65	2,45	2,28	2,13	1,99	1,88	1,77	1,68	1,59	1,51	1,45	1,38	1,32	1,26
Multiple	30	3,75	3,33	2,94	2,65	2,40	2,17	1,98	1,83	1,69	1,57	1,46	1,37	1,27	1,20	1,13	1,06	1,00	0,95	0,90	0,86
	40	4,25	3,79	3,41	3,09	2,83	2,59	2,38	2,20	2,05	1,91	1,79	1,68	1,58	1,48	1,41	1,33	1,25	1,19	1,14	1,08
	60		4,85	4,43	4,09	3,78	3,50	3,23	2,98	2,77	2,59	2,42	2,27	2,14	2,01	1,91	1,82	1,73	1,65	1,58	1,50
	80			4,55	4,13	3,75	3,42	3,15	2,92	2,71	2,54	2,38	2,24	2,12	2,00	1,91	1,81	1,73	1,66	1,59	1,51
	100		4,85	4,33	3,92	3,56	3,25	3,00	2,79	2,61	2,44	2,28	2,15	2,04	1,94	1,84	1,75	1,68	1,61	1,54	1,47
	120		4,88	4,38	3,96	3,61	3,31	3,05	2,83	2,65	2,49	2,34	2,20	2,09	1,98	1,89	1,80	1,72	1,66	1,59	1,52
	150		4,88	4,38	3,96	3,63	3,33	3,09	2,88	2,68	2,50	2,36	2,23	2,12	2,01	1,92	1,84	1,75	1,68	1,62	1,55

For thicknesses from 30 to 120 mm, the minimum end and intermediate support widths are 50 mm.
For a thickness of 150 mm, these are 50 and 100 mm, respectively. Calculations with colour group 3 available upon request.

