



# MINERAL WOOL CORE

Fire protection solutions

MR044 / 03 OCT 2024

**JORISIDE**  
THE STEEL FUTURE



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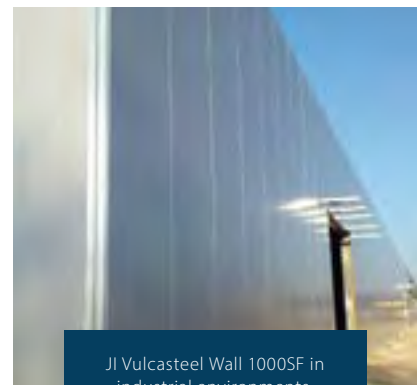
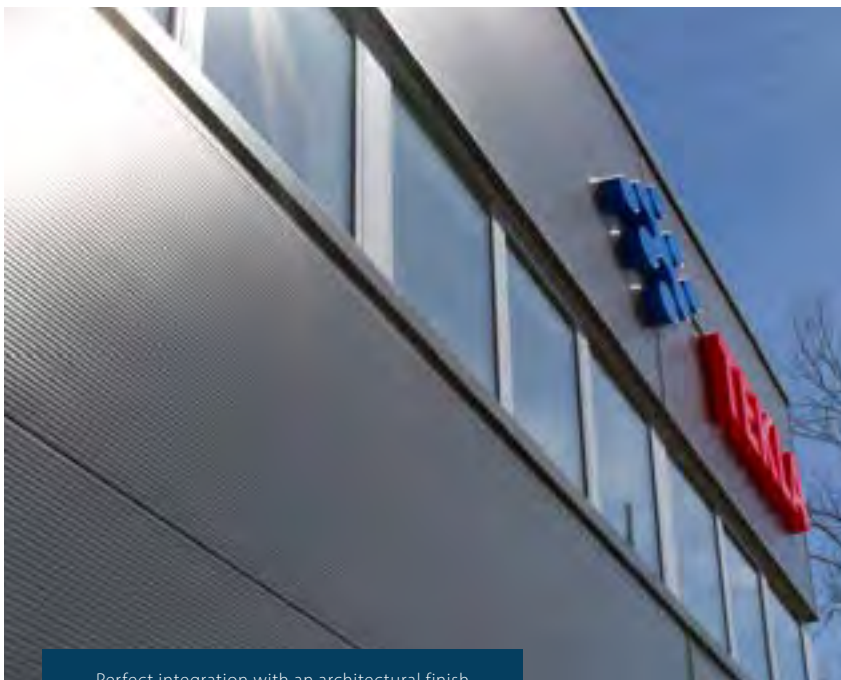
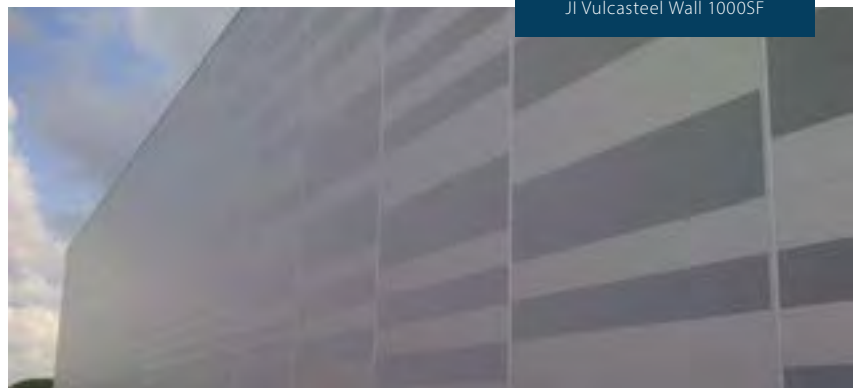
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# MINERAL WOOL CORE

## The extreme fire protection

The Joris Ide Group is one of the biggest, independent producers of metal insulated- and non-insulated roof and wall cladding products. As a complete package it offers both single skin profiles, purlins, PIR panels, accessories, flashings and mineral wool core panels for extreme fire protection.



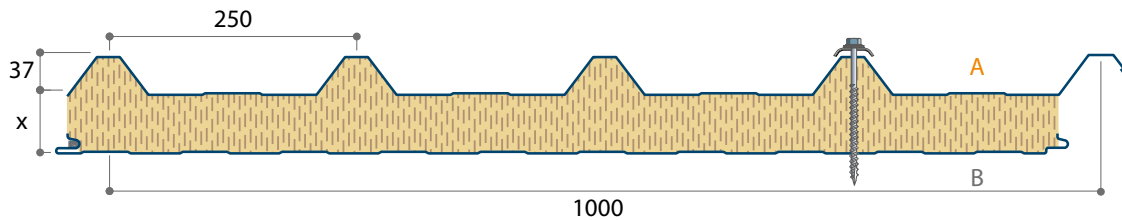
Currently the fire regulation is becoming more and more important and therefore raises the standards for both the architect, building owner and contractor. Therefore the Joris Ide Group has invested in products for roof and wall which combine the fire performance with architectural finish.

## JI Vulcasteel Roof

### Description



JI Vulcasteel Roof is a mineral wool roof panel with trapezoidal metal outer sheet and metal liner. The panels can be applied for agricultural and industrial projects from a slope of 5° and onwards.

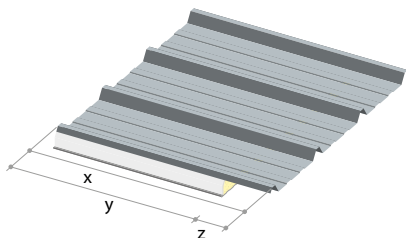


### Properties

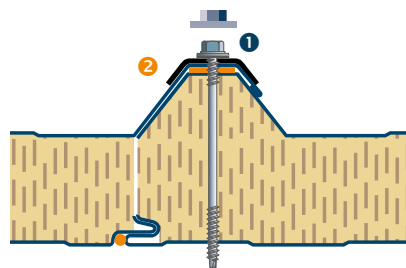
Core thickness	mm	50	60	80	100	120	150	175	200
Weight	kg/m <sup>2</sup>	15,65	16,58	18,64	20,64	22,64	25,57	28,08	30,71
U-value	W/m <sup>2</sup> K	0,77	0,66	0,51	0,41	0,35	0,28	0,24	0,21
Rw (acc.)	dB	30 (-4; -6)	30 (-1; -3)	30 (-2; -5)	30 (0; -2)	30 (-1; -5)	31 (-1; -3)	31 (-1; -5)	31 (-2; -3)

### System key benefits

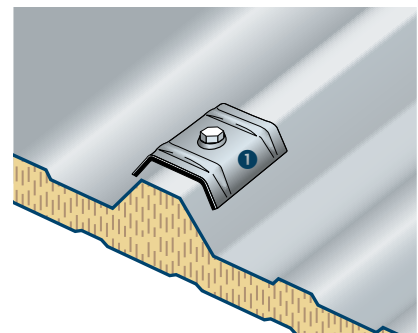
- Non-Combustible high density mineral wool core
- Useful width of 1000 mm
- Trapezoidal metal outer sheet (37-250-1000)
- Different coatings and colours possible
- Inners sheet standard in liner profile 15µ PE R9002. Other coatings are available on demand
- Produced according to EN ISO 14001
- CE-marked
- Fire classification A2-s1, d0 according to EN 13501-1
- Fast mounting
- Cutback: min. 50 mm - max. 300 mm. (no cutback is also an option)



x. Panel length  
y. Insulation length  
z. Cut-back



1. Screw  
2. Butyl



1. Saddle washer

# Performance JI Vulcasteel Roof

## Pressure

Span	Thickness (mm)	1,60	1,80	2,00	2,20	2,40	2,60	2,80	3,00	3,20	3,40	3,60	3,80	4,00	4,20	4,40	4,60	4,80	5,00	5,20	5,40	
Single	50	1,82	1,60	1,43	1,28	1,14	1,00	0,90	0,80	0,70	0,61	0,51	0,34	-	-	-	-	-	-	-	-	-
	60	2,00	1,76	1,57	1,42	1,29	1,18	1,09	1,00	0,91	0,83	0,75	0,63	0,50	0,34	-	-	-	-	-	-	-
	80	2,46	2,18	1,94	1,74	1,59	1,45	1,34	1,23	1,16	1,08	1,00	0,94	0,88	0,83	0,77	0,63	0,47	0,34	-	-	-
	100	2,94	2,59	2,32	2,09	1,90	1,74	1,61	1,48	1,38	1,29	1,21	1,14	1,07	1,01	0,95	0,90	0,84	0,79	0,70	0,55	-
	120	3,03	2,56	2,19	1,93	1,69	1,50	1,36	1,22	1,11	1,01	0,93	0,85	0,78	0,72	0,67	0,62	0,58	0,53	0,49	0,45	-
	150	3,26	2,88	2,57	2,28	2,05	1,86	1,69	1,55	1,42	1,31	1,21	1,11	1,03	0,96	0,89	0,82	0,77	0,72	0,67	0,63	-
	175	3,23	2,85	2,54	2,29	2,08	1,90	1,74	1,62	1,49	1,40	1,30	1,21	1,14	1,07	1,00	0,95	0,90	0,85	0,80	0,75	-
200	3,21	2,82	2,51	2,26	2,05	1,88	1,72	1,59	1,47	1,38	1,28	1,20	1,13	1,06	1,00	0,95	0,90	0,85	0,81	0,76	-	
Double	50	1,42	1,24	1,12	0,99	0,91	0,83	0,75	0,70	0,66	0,61	0,57	0,52	0,48	0,45	0,41	0,37	0,34	0,30	0,26	-	-
	60	1,61	1,42	1,25	1,14	1,02	0,94	0,87	0,79	0,73	0,69	0,65	0,61	0,57	0,53	0,49	0,47	0,45	0,42	0,40	0,38	
	80	2,06	1,82	1,62	1,45	1,32	1,21	1,12	1,02	0,96	0,90	0,84	0,78	0,73	0,70	0,66	0,63	0,59	0,56	0,52	0,49	
	100	2,54	2,24	1,99	1,80	1,64	1,49	1,38	1,27	1,18	1,11	1,03	0,97	0,92	0,87	0,82	0,77	0,70	0,62	0,54	0,46	
	120	2,90	2,55	2,19	1,93	1,69	1,50	1,36	1,22	1,11	1,01	0,93	0,85	0,78	0,72	0,66	0,60	0,55	0,48	0,38	0,29	
	150	2,88	2,53	2,24	2,02	1,84	1,68	1,54	1,43	1,32	1,22	1,13	1,05	0,97	0,92	0,86	0,80	0,74	0,69	0,63	0,56	
	175	2,84	2,49	2,22	2,00	1,81	1,66	1,52	1,41	1,30	1,21	1,13	1,06	0,99	0,94	0,89	0,83	0,78	0,74	0,69	0,65	
200	2,83	2,47	2,20	1,97	1,79	1,63	1,49	1,38	1,27	1,19	1,11	1,03	0,97	0,91	0,86	0,81	0,76	0,72	0,69	0,66		
Multiple	50	1,42	1,24	1,12	0,99	0,91	0,83	0,75	0,70	0,66	0,61	0,57	0,52	0,48	0,45	0,41	0,37	0,34	0,30	0,26	-	
	60	1,61	1,42	1,25	1,14	1,02	0,94	0,87	0,79	0,73	0,69	0,65	0,61	0,57	0,53	0,49	0,47	0,45	0,43	0,40	0,38	
	80	2,06	1,81	1,62	1,45	1,32	1,21	1,12	1,02	0,96	0,90	0,84	0,78	0,73	0,70	0,66	0,63	0,60	0,56	0,53	0,50	
	100	2,54	2,24	1,99	1,80	1,64	1,49	1,38	1,27	1,18	1,11	1,03	0,97	0,92	0,87	0,82	0,77	0,70	0,62	0,54	0,46	
	120	2,89	2,55	2,20	1,92	1,69	1,50	1,36	1,22	1,11	1,01	0,93	0,85	0,78	0,72	0,67	0,62	0,57	0,53	0,49	0,46	
	150	2,88	2,53	2,24	2,02	1,84	1,68	1,54	1,43	1,32	1,22	1,13	1,05	0,97	0,91	0,86	0,80	0,75	0,71	0,66	0,62	
	175	2,84	2,49	2,22	2,00	1,81	1,66	1,52	1,41	1,30	1,21	1,13	1,06	0,99	0,94	0,88	0,83	0,78	0,74	0,71	0,67	
200	2,81	2,47	2,20	1,97	1,79	1,63	1,49	1,38	1,27	1,19	1,11	1,03	0,97	0,91	0,86	0,81	0,76	0,72	0,69	0,66		

For other cases that doesn't fit within the assumptions presented above, please contact the technical assistance department of Joris Ide

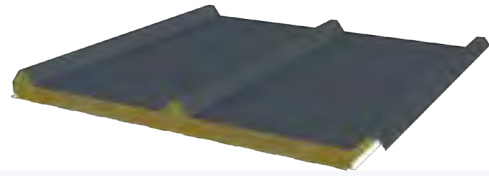
## Suction

Span	Thickness (mm)	1,60	1,80	2,00	2,20	2,40	2,60	2,80	3,00	3,20	3,40	3,60	3,80	4,00	4,20	4,40	4,60	4,80	5,00	5,20	5,40
Single	50	2,73	2,32	2,03	1,80	1,63	1,48	1,37	1,26	1,18	1,11	1,04	0,95	0,83	0,66	-	-	-	-	-	-
	60	2,73	2,32	2,03	1,80	1,63	1,48	1,37	1,26	1,18	1,11	1,04	0,95	0,83	0,66	-	-	-	-	-	-
	80	4,00	3,45	3,04	2,71	2,45	2,23	2,06	1,91	1,78	1,67	1,58	1,49	1,42	1,35	1,28	1,20	1,09	0,99	0,91	0,83
	100	4,83	4,19	3,69	3,29	2,98	2,73	2,51	2,34	2,18	2,04	1,93	1,82	1,72	1,62	1,52	1,41	1,30	1,21	1,14	1,06
	120	3,69	3,21	2,84	2,56	2,32	2,13	1,97	1,83	1,71	1,62	1,52	1,45	1,38	1,31	1,25	1,20	1,16	1,12	1,08	1,03
	150	4,52	3,94	3,49	3,14	2,85	2,62	2,42	2,26	2,11	1,99	1,87	1,78	1,69	1,61	1,55	1,49	1,42	1,37	1,32	1,28
	175	4,95	4,54	4,03	3,62	3,30	3,03	2,81	2,61	2,44	2,30	2,17	2,06	1,95	1,87	1,79	1,71	1,65	1,59	1,53	1,47
200	-	-	4,55	4,10	3,73	3,43	3,18	2,96	2,77	2,61	2,46	2,34	2,22	2,12	2,02	1,94	1,87	1,80	1,73	1,68	
Double	50	2,73	2,32	2,03	1,80	1,63	1,48	1,37	1,26	1,18	1,11	1,04	0,98	0,94	0,89	0,85	0,81	0,76	0,73	0,69	0,66
	60	2,73	2,32	2,03	1,80	1,63	1,48	1,37	1,26	1,18	1,11	1,04	0,98	0,94	0,89	0,85	0,81	0,76	0,73	0,69	0,66
	80	3,71	3,11	2,67	2,33	2,05	1,84	1,67	1,52	1,40	1,29	1,21	1,14	1,06	1,00	0,95	0,91	0,87	0,82	0,78	0,75
	100	3,79	3,18	2,73	2,38	2,12	1,90	1,72	1,58	1,45	1,35	1,25	1,18	1,12	1,05	0,99	0,95	0,92	0,88	0,84	0,80
	120	3,69	3,18	2,73	2,40	2,13	1,92	1,74	1,60	1,47	1,37	1,27	1,20	1,14	1,08	1,02	0,97	0,94	0,90	0,87	0,83
	150	3,88	3,28	2,82	2,47	2,20	1,98	1,80	1,66	1,53	1,43	1,34	1,25	1,19	1,13	1,08	1,02	0,98	0,95	0,92	0,89
	175	3,89	3,30	2,84	2,50	2,22	2,00	1,82	1,67	1,55	1,44	1,36	1,27	1,21	1,15	1,10	1,04	0,99	0,97	0,94	0,91
200	3,86	3,25	2,83	2,47	2,20	1,98	1,81	1,67	1,54	1,44	1,35	1,27	1,21	1,16	1,10	1,05	1,00	0,97	0,95	0,92	
Multiple	50	2,73	2,32	2,03	1,80	1,63	1,48	1,37	1,26	1,18	1,11	1,04	0,98	0,94	0,90	0,86	0,82	0,78	0,74	0,71	0,67
	60	2,73	2,32	2,03	1,80	1,63	1,48	1,37	1,26	1,18	1,11	1,04	0,98	0,94	0,90	0,86	0,82	0,78	0,74	0,71	0,67
	80	4,00	3,45	3,04	2,71	2,45	2,23	2,02	1,86	1,71	1,59	1,48	1,39	1,30	1,23	1,17	1,11	1,05	0,99	0,95	0,91
	100	4,33	3,69	3,19	2,82	2,51	2,27	2,08	1,91	1,76	1,65	1,53	1,44	1,37	1,29	1,22	1,17	1,11	1,06	1,01	0,97
	120	3,69	3,21	2,83	2,55	2,32	2,13	1,97	1,83	1,71	1,61	1,51	1,44	1,38	1,31	1,24	1,19	1,14	1,10	1,05	1,00
	150	4,29	3,70	3,22	2,86	2,57	2,34	2,14	1,98	1,84	1,72	1,62	1,52	1,45	1,38	1,31	1,24	1,20	1,16	1,11	1,07
	175	4,29	3,68	3,22	2,86	2,57	2,34	2,15	1,99	1,86	1,73	1,64	1,54	1,47	1,40	1,34	1,27	1,22	1,18	1,14	1,10
200	4,21	3,63	3,17	2,82	2,54	2,32	2,13	1,97	1,85	1,73	1,63	1,54	1,47	1,40	1,34	1,28	1,23	1,19	1,15	1,11	

For other cases that doesn't fit within the assumptions presented above, please contact the technical assistance department of Joris Ide

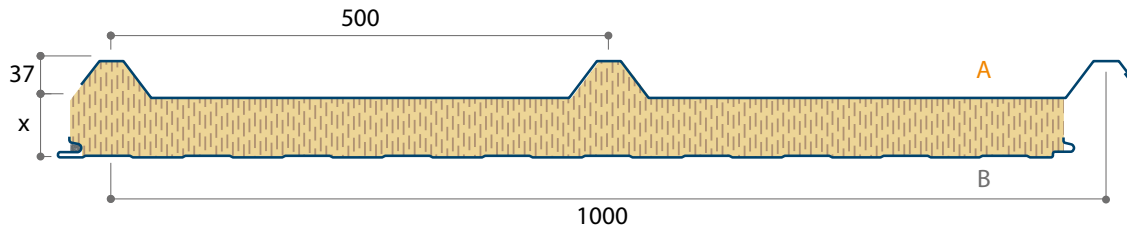
- Span tables only valid for roof application. Self-weight is already included on the spantable.
- Values have been calculated using the method described in EN 14509:2013
- Deflection limit for short term loads: L/200
- The minimum required support width for end and intermediate supports is 40mm and 60mm. Larger support widths are possible. For intermediate values, linear interpolation may be used.
- Calculation of fasteners and hidden fix is not included. Maximum span width depends on the type of fixing, the number and type of fasteners as well as the support material and thickness
- In the case of double or triple span conditions, this span/load table can only be used when all spans are equal or when the difference between the spans is less than 10%.
- These spantables only consider the pressure/suction wind load. The creep effect due to snow accumulation or other long-term loads cannot be considered.
- The tables below are only valid for light and medium outside colour (Colour group I-II).

## JI Vulcasteel Roof 37-500



### Description

JI Vulcasteel Roof 37-500 is a mineral wool roof panel with trapezoidal metal outer sheet and metal liner. The panels can be applied for agricultural and industrial projects from a slope of 5° and onwards.

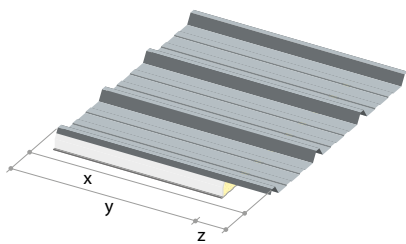


### Properties

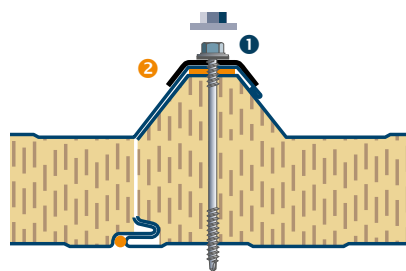
Core thickness	mm	50	60	80	100	120	150	175	200
Weight	kg/m <sup>2</sup>	15,16	16,16	18,16	20,15	22,15	25,17	27,69	30,14
U-value	W/m <sup>2</sup> K	0,80	0,68	0,52	0,42	0,35	0,29	0,25	0,22
Rw (acc.)	dB	30 (-4; -6)	30 (-3; -6)	30 (-2; -5)	30 (-2; -5)	30 (-1; -5)	31 (-2; -5)	31 (-1; -5)	31 (-1; -5)

### System key benefits

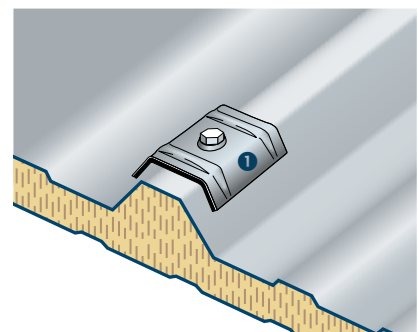
- Non-Combustible high density mineral wool core
- Useful width of 1000 mm
- Trapezoidal metal outer sheet (37-500-1000)
- Different coatings and colours possible
- Inners sheet standard in liner profile 15µ PE R9002. Other coatings are available on demand
- Produced according to EN ISO 14001
- CE-marked
- Fire classification A2-s1, d0 according to EN 13501-1
- Fast mounting
- Cutback: min. 50 mm - max. 300 mm. (no cutback is also an option)



x. Panel length  
y. Insulation length  
z. Cut-back



1. Screw  
2. Butyl



1. Saddle washer

# Performance JI Vulcasteel Roof 37-500

## Pressure

Span	Thickness (mm)	1,60	1,80	2,00	2,20	2,40	2,60	2,80	3,00	3,20	3,40	3,60	3,80	4,00	4,20	4,40	4,60	4,80	5,00	5,20	5,40	
Single	50	1,64	1,36	1,16	0,99	0,88	0,76	0,68	0,60	0,52	0,40	0,26	-	-	-	-	-	-	-	-	-	-
	60	1,83	1,60	1,40	1,21	1,06	0,94	0,84	0,75	0,68	0,62	0,55	0,46	0,29	-	-	-	-	-	-	-	-
	80	1,99	1,74	1,56	1,40	1,26	1,16	1,06	0,97	0,90	0,82	0,75	0,70	0,64	0,59	0,53	0,44	0,31	-	-	-	-
	100	2,15	1,89	1,68	1,50	1,37	1,24	1,15	1,06	0,98	0,91	0,85	0,79	0,74	0,69	0,65	0,61	0,56	0,52	0,46	0,37	-
	120	2,16	1,90	1,69	1,50	1,37	1,24	1,15	1,05	0,97	0,91	0,84	0,78	0,73	0,69	0,66	0,62	0,58	0,55	0,51	0,47	-
	150	2,35	2,07	1,84	1,65	1,49	1,36	1,24	1,15	1,06	0,98	0,92	0,86	0,80	0,74	0,71	0,67	0,63	0,60	0,56	0,53	-
	175	2,24	1,97	1,74	1,56	1,41	1,28	1,17	1,08	0,99	0,92	0,86	0,79	0,73	0,69	0,66	0,62	0,58	0,54	0,50	0,48	-
200	2,13	1,87	1,65	1,47	1,33	1,20	1,10	1,00	0,93	0,86	0,79	0,73	0,69	0,64	0,60	0,56	0,51	0,49	0,46	0,44	-	
Double	50	1,37	1,20	1,06	0,86	0,45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	60	1,44	1,25	1,12	0,97	0,66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	80	1,61	1,41	1,24	1,13	1,01	0,44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	100	1,78	1,56	1,39	1,24	1,10	0,75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	120	1,81	1,58	1,41	1,25	1,13	1,02	0,31	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	150	2,00	1,75	1,56	1,40	1,25	1,09	0,55	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	175	1,89	1,66	1,46	1,30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
200	1,78	1,55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Multiple	50	1,37	1,20	1,06	0,92	0,78	0,51	0,29	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	60	1,44	1,25	1,12	0,98	0,82	0,55	0,30	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	80	1,61	1,41	1,24	1,13	1,01	0,60	0,28	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	100	1,78	1,56	1,39	1,23	1,06	0,62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	120	1,81	1,58	1,41	1,25	1,07	0,61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	150	2,00	1,75	1,56	1,40	1,25	0,44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	175	1,89	1,66	1,46	1,30	1,08	0,30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
200	1,78	1,55	1,38	1,21	1,03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

For other cases that doesn't fit within the assumptions presented above, please contact the technical assistance department of Joris Ide

## Suction

Span	Thickness (mm)	1,60	1,80	2,00	2,20	2,40	2,60	2,80	3,00	3,20	3,40	3,60	3,80	4,00	4,20	4,40	4,60	4,80	5,00	5,20	5,40	
Single	50	2,20	1,90	1,67	1,49	1,36	1,24	1,14	1,04	0,95	0,86	0,76	0,61	-	-	-	-	-	-	-	-	-
	60	2,50	2,17	1,91	1,71	1,55	1,43	1,32	1,20	1,08	0,97	0,88	0,80	0,71	0,61	0,51	-	-	-	-	-	-
	80	3,00	2,62	2,32	2,08	1,89	1,73	1,61	1,48	1,33	1,19	1,08	0,98	0,90	0,83	0,76	0,70	0,65	0,59	0,54	-	-
	100	3,48	3,02	2,69	2,42	2,20	2,02	1,88	1,73	1,55	1,40	1,25	1,15	1,05	0,96	0,90	0,83	0,77	0,72	0,69	0,65	-
	120	3,78	3,29	2,92	2,64	2,41	2,21	2,04	1,90	1,76	1,58	1,43	1,30	1,19	1,10	1,00	0,94	0,88	0,82	0,76	0,73	-
	150	4,64	4,06	3,62	3,25	2,98	2,73	2,53	2,30	2,05	1,83	1,65	1,49	1,38	1,26	1,17	1,09	1,00	0,95	0,90	0,85	-
	175	4,89	4,28	3,81	3,44	3,14	2,90	2,69	2,50	2,26	2,02	1,83	1,67	1,52	1,40	1,29	1,20	1,12	1,05	0,98	0,93	-
200	4,86	4,25	3,81	3,44	3,14	2,90	2,69	2,51	2,36	2,20	1,98	1,80	1,65	1,51	1,41	1,30	1,21	1,14	1,07	1,00	-	
Double	50	1,93	1,62	1,40	1,23	1,10	0,92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	60	1,98	1,68	1,46	1,28	1,15	1,04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	80	2,08	1,75	1,52	1,35	1,21	1,11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	100	2,12	1,78	1,55	1,38	1,23	1,13	1,03	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	120	2,10	1,77	1,53	1,37	1,23	1,13	1,03	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	150	1,98	1,66	1,38	1,18	1,04	0,93	0,83	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	175	1,88	1,49	1,21	1,02	0,91	0,81	0,68	-	-	-	-	-	-	-	-	-	-	-	-	-	-
200	1,66	1,27	1,00	0,84	0,72	0,65	0,57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Multiple	50	2,20	1,90	1,67	1,49	1,36	1,24	1,14	1,04	0,86	-	-	-	-	-	-	-	-	-	-	-	-
	60	2,48	2,11	1,84	1,63	1,47	1,34	1,21	1,11	1,01	-	-	-	-	-	-	-	-	-	-	-	-
	80	2,55	2,18	1,91	1,70	1,53	1,41	1,30	1,11	-	-	-	-	-	-	-	-	-	-	-	-	-
	100	2,54	2,19	1,93	1,73	1,56	1,43	1,33	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	120	2,50	2,15	1,90	1,70	1,55	1,42	1,30	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	150	2,35	2,03	1,80	1,62	1,47	1,34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	175	2,23	1,94	1,72	1,55	1,42	1,30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
200	2,08	1,80	1,61	1,45	1,33	1,04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

For other cases that doesn't fit within the assumptions presented above, please contact the technical assistance department of Joris Ide

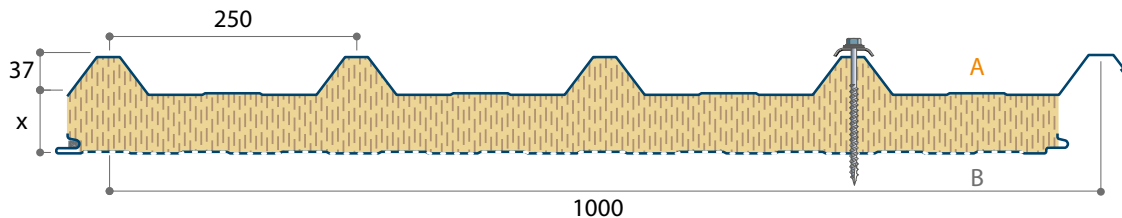
- Span tables only valid for roof application. Self-weight is already included on the spantable.
- Values have been calculated using the method described in EN 14509:2013
- Deflection limit for short term loads: L/200
- The minimum required support width for end and intermediate supports is 40mm and 60mm. Larger support widths are possible. For intermediate values, linear interpolation may be used.
- Calculation of fasteners and hidden fix is not included. Maximum span width depends on the type of fixing, the number and type of fasteners as well as the support material and thickness
- In the case of double or triple span conditions, this span/load table can only be used when all spans are equal or when the difference between the spans is less than 10%.
- These spantables only consider the pressure/suction wind load. The creep effect due to snow accumulation or other long-term loads cannot be considered.
- The tables below are only valid for light and medium outside colour (Colour group I-II).

## JI Vulcasteel Roof Alpha



### Description

JI Vulcasteel Roof Alpha is a mineral wool roof panel with trapezoidal metal outer sheet and metal liner. The panels can be applied for agricultural and industrial projects from a slope of 5° and onwards. The JI Vulcasteel Roof Alpha can be used in rooms with low or controlled humidity.



The range of products Vulcasteel Alpha has a 23% perforated inner face. Ideal to increase the acoustic absorption.

### Properties

Core thickness	mm	50	60	80	100	120	150	175	200
Weight	kg/m <sup>2</sup>	14,92	15,85	17,91	19,91	21,91	24,84	27,35	29,98
U-value	W/m <sup>2</sup> K	0,77	0,66	0,51	0,41	0,35	0,28	0,24	0,21
Rw (acc.)	dB	28 (-3 ; -4)	28 (-3 ; -5)	28 (-2 ; -5)	28 (-2 ; -5)	28 (-1 ; -5)	29 (-2 ; -5)	29 (-1 ; -5)	29 (-1 ; -5)
$\alpha_w$	-	0,85	0,85	0,85	0,85	0,90	0,90	0,95	0,95

### System key benefits

- Non-Combustible high density mineral wool core
- Useful width of 1000 mm
- Trapezoidal metal outer sheet (37-250-1000)
- Different coatings and colours possible
- Inners sheet standard in liner profile 15 $\mu$  PE R9002. Other coatings are available on demand
- Produced according to EN ISO 14001
- Fire classification NPD
- Fast mounting
- Cutback: min. 50 mm - max. 300 mm. (no cutback is also an option)

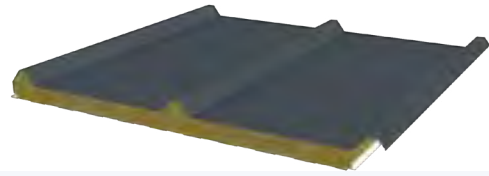
### Performance JI Vulcasteel Roof Alpha

Project-specific calculations available on request.

Please contact our technical assistance department for a loads and spans verification.

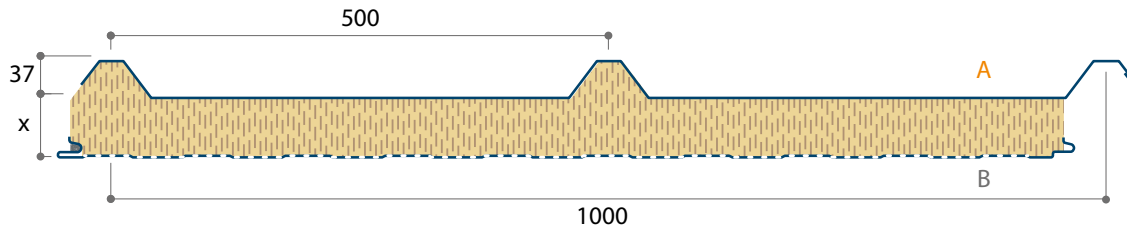


## JI Vulcasteel Roof 37-500 Alpha



### Description

JI Vulcasteel Roof Alpha is a mineral wool roof panel with trapezoidal metal outer sheet and metal liner. The panels can be applied for agricultural and industrial projects from a slope of 5° and onwards. The JI Vulcasteel Roof 37-500 Alpha can be used in rooms with low or controlled humidity.



The range of products Vulcasteel Alpha has a 23% perforated inner face. Ideal to increase the acoustic absorption.

### Properties

Core thickness	mm	50	60	80	100	120	150	175	200
Weight	kg/m <sup>2</sup>	14,43	15,43	17,43	19,42	21,42	24,44	26,96	29,41
U-value	W/m <sup>2</sup> K	0,80	0,68	0,52	0,42	0,35	0,29	0,25	0,22
Rw (acc.)	dB	28 (-3 ; -4)	28 (-3 ; -5)	28 (-2 ; -5)	28 (-2 ; -5)	28 (-1 ; -5)	29 (-2 ; -5)	29 (-1 ; -5)	29 (-1 ; -5)
$\alpha_w$	-	0,85	0,80	0,85	0,85	0,85	0,90	0,95	0,95

### System key benefits

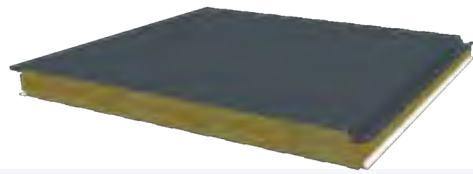
- Non-Combustible high density mineral wool core
- Useful width of 1000 mm
- Trapezoidal metal outer sheet (37-500-1000)
- Different coatings and colours possible
- Inners sheet standard in liner profile 15 $\mu$  PE R9002. Other coatings are available on demand
- Produced according to EN ISO 14001
- Fire classification NPD
- Fast mounting
- Cutback: min. 50 mm - max. 300 mm. (no cutback is also an option)

### Performance JI Vulcasteel Roof 37-500 Alpha

Project-specific calculations available on request.

Please contact our technical assistance department for a loads and spans verification.

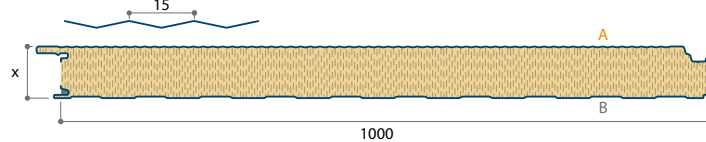
# JI Vulcasteel Wall 1000SF



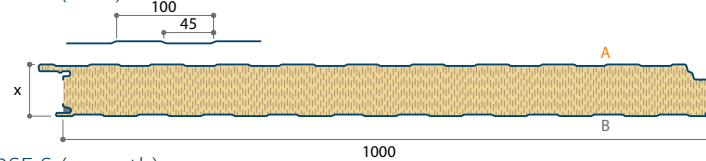
## Description

The JI Vulcasteel Wall 1000SF is an architectural mineral wool panel with a Liner, Microrib or smooth profiled outer sheet. The inner sheet is Liner profiled and made of 15 $\mu$  PE R9002. Due to the secret fixing the panel obtains a very high architectural finish for both vertical and horizontal applications.

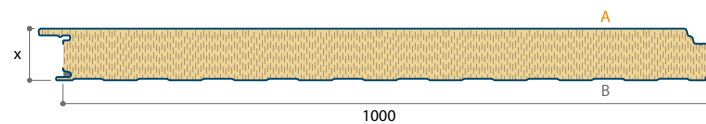
JI Vulcasteel Wall 1000SF M (microrib)



JI Vulcasteel Wall 1000SF L (liner)



JI Vulcasteel Wall 1000SF S (smooth)

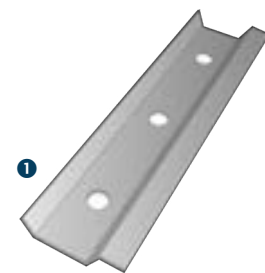


## Properties

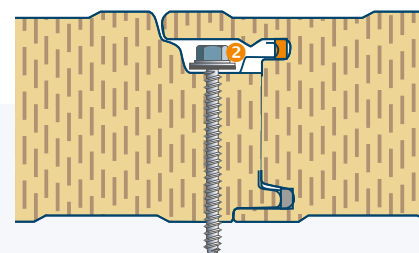
Core thickness	mm	50	60	80	100	120	150	175	200
Weight	kg/m <sup>2</sup>	15,71	16,71	18,71	20,71	22,70	25,70	28,20	30,70
U-value	W/m <sup>2</sup> K	0,86	0,71	0,54	0,43	0,36	0,29	0,25	0,21
Rw (acc.)	dB	30 (-4; -6)	29 (-2; -5)	30 (-2; -5)	31 (-2; -3)	30 (-2; -5)	31 (-2; -3)	31 (-1; -5)	32 (-1; -5)

## System key benefits

- Non-Combustible high density mineral wool core
- Standard 1000 mm modules
- Length up to 14 m
- Outer sheet can be Liner, Microrib, Plank or smooth profiling
- Different coatings and colours possible
- Inners sheet standard in liner profile 15 $\mu$  PE R9002. Other coatings are available on demand
- Fire classification A2-s1, d0 according to EN 13501-1
- Mounting with spreader plate
- Vertical and horizontal application
- Fast mounting
- CE marked



Length 120 mm, 3 holes (ø 7 mm)



To mount the JI Vulcasteel Wall 1000 Secret Fixation a stainless steel spreader plate ❶ must be used in the joint ❷. This to spread the loads for a maximal span performance.

# Performance JI Vulcasteel Wall 1000SF

## Pressure

Span	Thickness (mm)	1,40	1,60	1,80	2,00	2,20	2,40	2,60	2,80	3,00	3,20	3,40	3,60	3,80	4,00	4,20	4,40	4,60	4,80	5,00	5,20
Single	50	1,97	1,72	1,53	1,39	1,25	1,16	1,07	0,99	0,93	0,88	0,82	0,77	0,73	0,69	0,65	0,61	0,57	0,53	0,49	0,44
	60	2,37	2,07	1,84	1,66	1,50	1,39	1,27	1,19	1,11	1,04	0,98	0,93	0,89	0,84	0,80	0,75	0,70	0,65	0,60	0,55
	80	2,88	2,52	2,23	2,01	1,83	1,68	1,55	1,44	1,35	1,25	1,19	1,13	1,07	1,01	0,96	0,91	0,86	0,81	0,77	0,72
	100	3,55	3,10	2,75	2,48	2,25	2,07	1,91	1,77	1,66	1,55	1,46	1,39	1,31	1,24	1,18	1,11	1,05	0,99	0,92	0,85
	120	3,19	2,79	2,48	2,23	2,03	1,87	1,72	1,60	1,49	1,40	1,32	1,24	1,18	1,13	1,07	1,02	0,98	0,94	0,91	0,87
	150	4,00	3,50	3,11	2,79	2,54	2,33	2,15	1,99	1,87	1,75	1,65	1,56	1,47	1,41	1,34	1,27	1,22	1,18	1,13	1,09
	175	4,00	3,50	3,11	2,79	2,54	2,33	2,15	1,99	1,87	1,75	1,65	1,56	1,47	1,41	1,34	1,27	1,22	1,18	1,13	1,09
200	4,00	3,50	3,11	2,79	2,54	2,33	2,15	1,99	1,87	1,75	1,65	1,56	1,47	1,41	1,34	1,27	1,22	1,18	1,13	1,09	
Double	50	1,71	1,49	1,34	1,12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	60	1,91	1,67	1,49	1,34	1,03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	80	2,42	2,12	1,89	1,70	1,54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	100	3,09	2,70	2,41	2,17	1,97	1,80	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	120	3,19	2,79	2,48	2,23	2,03	1,87	1,59	-	-	-	-	-	-	-	-	-	-	-	-	-
	150	3,53	3,10	2,75	2,48	2,25	2,06	1,91	1,77	1,59	-	-	-	-	-	-	-	-	-	-	-
	175	3,53	3,10	2,75	2,48	2,25	2,07	1,91	1,77	1,66	1,55	1,37	-	-	-	-	-	-	-	-	-
200	3,53	3,10	2,75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Multiple	50	1,71	1,49	1,34	1,20	1,10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	60	1,91	1,67	1,49	1,34	1,19	1,01	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	80	2,42	2,12	1,89	1,70	1,54	1,30	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	100	3,09	2,70	2,41	2,17	1,96	1,79	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	120	3,19	2,79	2,48	2,23	2,03	1,78	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	150	3,53	3,10	2,75	2,48	2,25	2,06	1,91	1,77	-	-	-	-	-	-	-	-	-	-	-	-
	175	2,48	1,77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

For other cases that doesn't fit within the assumptions presented above, please contact the technical assistance department of Joris Ide

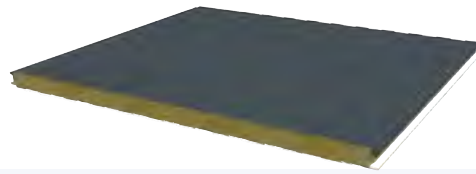
## Suction

Span	Thickness (mm)	1,40	1,60	1,80	2,00	2,20	2,40	2,60	2,80	3,00	3,20	3,40	3,60	3,80	4,00	4,20	4,40	4,60	4,80	5,00	5,20
Single	50	1,58	1,39	1,23	1,12	1,01	0,94	0,87	0,80	0,74	0,71	0,67	0,64	0,61	0,57	0,54	0,50	0,41	0,31	-	-
	60	1,67	1,46	1,30	1,18	1,07	0,98	0,91	0,85	0,79	0,74	0,70	0,67	0,64	0,61	0,57	0,54	0,51	0,47	0,43	0,38
	80	1,84	1,61	1,44	1,29	1,18	1,08	0,99	0,93	0,87	0,81	0,76	0,72	0,69	0,67	0,64	0,61	0,58	0,55	0,52	0,49
	100	2,00	1,75	1,56	1,41	1,28	1,18	1,09	1,00	0,95	0,89	0,84	0,78	0,74	0,71	0,69	0,66	0,63	0,61	0,58	0,55
	120	2,18	1,91	1,70	1,52	1,39	1,27	1,18	1,10	1,01	0,96	0,91	0,86	0,81	0,76	0,73	0,71	0,68	0,66	0,63	0,61
	150	2,42	2,12	1,89	1,70	1,54	1,42	1,31	1,21	1,14	1,07	1,00	0,95	0,91	0,86	0,82	0,77	0,74	0,72	0,70	0,67
	175	2,42	2,12	1,89	1,70	1,54	1,42	1,31	1,21	1,14	1,07	1,00	0,95	0,91	0,86	0,82	0,77	0,74	0,72	0,70	0,67
200	2,42	2,12	1,89	1,70	1,54	1,42	1,31	1,21	1,14	1,07	1,00	0,95	0,91	0,86	0,82	0,77	0,74	0,72	0,70	0,67	
Double	50	1,06	0,92	0,78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	60	1,00	0,91	0,83	0,70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	80	1,00	0,90	0,80	0,68	0,54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	100	1,08	0,91	0,78	0,68	0,59	0,50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	120	1,00	0,75	0,64	0,53	0,43	0,33	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	150	0,85	0,56	0,43	0,33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	175	0,70	0,42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
200	0,60	0,28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Multiple	50	0,65	0,59	0,54	0,42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	60	0,63	0,59	0,55	0,51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	80	0,41	0,38	0,34	0,30	0,26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	100	0,38	0,33	0,28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	175	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

For other cases that doesn't fit within the assumptions presented above, please contact the technical assistance department of Joris Ide

- Span tables only valid for wall application.
- Values have been calculated using the method described in EN 14509:2013
- Deflection limit for short term loads: L/100
- The minimum required support width for end and intermediate supports is 40mm and 60mm. Larger support widths are possible. For intermediate values, linear interpolation may be used.
- Calculation of fasteners and hidden fix is not included. Maximum span width depends on the type of fixing, the number and type of fasteners as well as the support material and thickness
- In the case of double or triple span conditions, this span/load table can only be used when all spans are equal or when the difference between the spans is less than 10%.
- These span tables only consider the pressure/suction wind load.

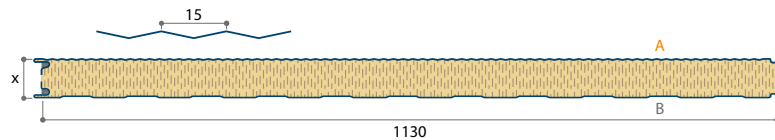
## JI Vulcasteel Wall



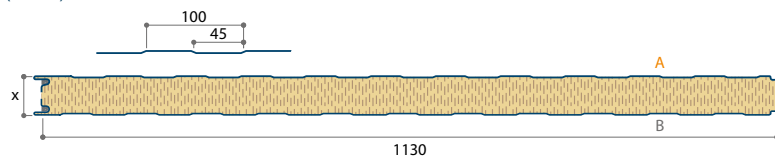
### Description

The JI Vulcasteel Wall is a mineral wool panel with liner or microrib exterior profiling. The inner sheet is Liner profiled and 15 $\mu$  PE R9002. Thanks to a high fire resistance this panel is often applied for agricultural, public or industrial projects where high fire resistance is required. This for both internal as external fire walls.

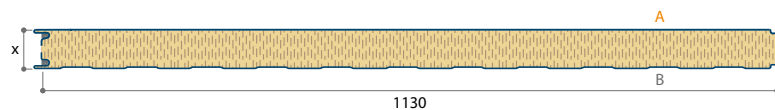
JI Vulcasteel Wall M (microrib)



JI Vulcasteel Wall L (liner)



JI Vulcasteel Wall S (smooth)

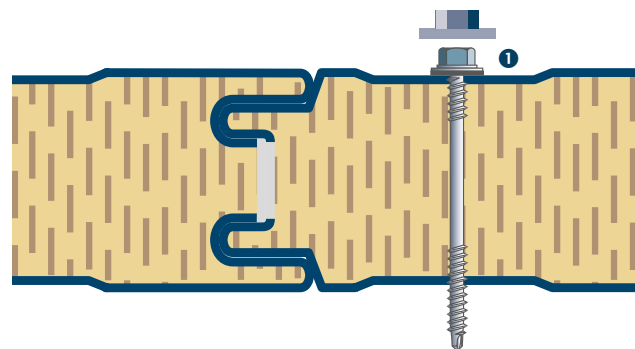


### Properties

Core thickness	mm	50	60	80	100	120	150	175	200	240
Weight	kg/m <sup>2</sup>	14,15	15,15	17,14	19,14	21,14	24,13	26,63	29,13	33,12
U-value	W/m <sup>2</sup> K	0,82	0,71	0,53	0,43	0,36	0,29	0,25	0,21	0,18
Rw (acc.)	dB	29 (-3; -6)	29 (-2; -3)	30 (-2; -3)	31 (-1; -3)	30 (-2; -5)	30 (-2; -3)	29 (-1; -5)	31 (-3; -4)	30 (-2; -6)

### System key benefits

- Non-Combustible high density mineral wool core
- Standard 1130 mm modules but available in 1000 mm
- Length up to 14 m
- Outer sheet can be Liner, Microrib or smooth profiling
- Visible fixation
- Different coatings and colours possible
- Inners sheet standard in liner profile 15 $\mu$  PE R9002. Other coatings are available on demand
- Fire classification A2-s1, d0 according to EN 13501-1
- Vertical and horizontal application
- Fast mounting
- CE marked



1. Visible fixation

# Performance JI Vulcasteel Wall

## Pressure

Span	Thickness (mm)	2,40	2,60	2,80	3,00	3,20	3,40	3,60	3,80	4,00	4,20	4,40	4,60	4,80	5,00	5,20	5,40	5,60	5,80	6,00	6,20
Single	50	1,16	1,07	0,99	0,93	0,88	0,82	0,77	0,73	0,69	0,66	0,62	0,58	0,55	0,51	0,46	0,40	0,33	0,27	-	-
	60	1,39	1,27	1,19	1,12	1,04	0,98	0,93	0,89	0,84	0,80	0,75	0,71	0,68	0,64	0,60	0,57	0,53	0,49	0,44	0,40
	80	1,68	1,55	1,44	1,35	1,25	1,19	1,13	1,07	1,01	0,97	0,93	0,89	0,85	0,81	0,77	0,74	0,69	0,65	0,61	0,57
	100	2,07	1,91	1,77	1,66	1,55	1,46	1,39	1,31	1,24	1,19	1,14	1,09	1,04	0,99	0,93	0,88	0,82	0,76	0,72	0,68
	120	1,87	1,72	1,60	1,49	1,41	1,32	1,24	1,19	1,13	1,07	1,02	0,98	0,94	0,91	0,88	0,84	0,81	0,78	0,74	0,71
	150	2,33	2,15	1,99	1,87	1,75	1,65	1,56	1,47	1,41	1,34	1,27	1,22	1,18	1,13	1,09	1,04	1,00	0,97	0,94	0,91
	175	2,33	2,15	1,99	1,87	1,75	1,65	1,56	1,47	1,41	1,34	1,27	1,22	1,18	1,13	1,09	1,04	1,00	0,97	0,94	0,91
Double	200	2,33	2,15	1,99	1,87	1,75	1,65	1,56	1,47	1,41	1,34	1,27	1,22	1,18	1,13	1,09	1,04	1,00	0,97	0,94	0,92
	50	0,99	0,93	0,86	0,80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	60	1,13	1,03	0,94	0,86	0,77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	80	1,42	1,31	1,21	1,13	1,06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	100	1,81	1,67	1,55	1,44	1,35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	120	1,87	1,72	1,60	1,49	1,38	1,26	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	150	2,06	1,91	1,77	1,66	1,55	1,46	1,39	1,31	1,22	1,08	-	-	-	-	-	-	-	-	-	-
Multiple	175	2,06	1,91	1,77	1,66	1,55	1,46	1,39	1,31	1,24	1,16	1,09	1,01	0,87	-	-	-	-	-	-	-
	200	2,06	1,91	1,77	1,66	1,55	1,46	1,39	1,31	1,24	1,19	1,14	1,09	1,04	0,98	0,91	0,83	0,76	-	-	-
	50	0,99	0,93	0,87	0,81	0,75	0,72	0,68	0,65	0,62	0,59	0,56	0,53	0,50	0,48	0,46	0,44	0,42	0,40	0,39	0,37
	60	1,13	1,03	0,96	0,91	0,85	0,79	0,74	0,72	0,69	0,66	0,63	0,60	0,57	0,55	0,52	0,49	0,48	0,46	0,44	0,42
	80	1,42	1,31	1,21	1,14	1,07	1,00	0,95	0,91	0,86	0,82	0,77	0,74	0,71	0,69	0,66	0,64	0,61	0,59	0,57	0,54
	100	1,81	1,67	1,55	1,45	1,36	1,27	1,21	1,15	1,09	1,03	0,98	0,95	0,91	0,87	0,83	0,79	0,76	0,71	0,67	0,62
	120	1,87	1,72	1,60	1,49	1,40	1,32	1,24	1,19	1,13	1,07	1,02	0,87	-	-	-	-	-	-	-	-
150	2,06	1,91	1,77	1,66	1,55	1,46	1,39	1,31	1,24	1,19	1,14	1,09	1,04	0,99	0,96	0,92	0,89	0,85	0,82	0,78	
175	2,06	1,91	1,77	1,66	1,55	1,46	1,39	1,31	1,24	1,19	1,14	1,09	1,04	0,99	0,96	0,93	0,89	0,86	0,83	0,80	
200	2,06	1,91	1,77	1,66	1,55	1,46	1,39	1,31	1,24	1,19	1,14	1,09	1,04	0,99	0,96	0,93	0,90	0,87	0,84	0,81	

For other cases that doesn't fit within the assumptions presented above, please contact the technical assistance department of Joris Ide

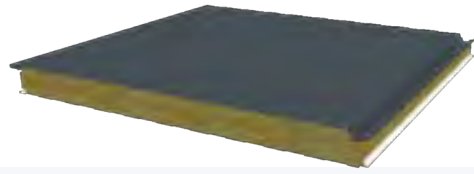
## Suction

Span	Thickness (mm)	2,40	2,60	2,80	3,00	3,20	3,40	3,60	3,80	4,00	4,20	4,40	4,60	4,80	5,00	5,20	5,40	5,60	5,80	6,00	6,20
Single	50	1,16	1,07	0,99	0,93	0,88	0,82	0,77	0,70	0,64	0,57	0,50	0,40	0,30	-	-	-	-	-	-	-
	60	1,39	1,28	1,19	1,12	1,04	0,98	0,93	0,89	0,84	0,80	0,75	0,69	0,62	0,55	0,48	0,40	0,32	-	-	-
	80	1,86	1,71	1,60	1,48	1,40	1,31	1,24	1,18	1,12	1,07	1,01	0,95	0,89	0,83	0,77	0,72	0,68	0,64	0,60	0,55
	100	2,32	2,15	1,99	1,86	1,74	1,65	1,55	1,47	1,39	1,31	1,24	1,14	1,04	0,96	0,90	0,83	0,77	0,72	0,68	0,64
	120	1,87	1,72	1,60	1,49	1,40	1,32	1,24	1,19	1,13	1,07	1,02	0,98	0,94	0,91	0,87	0,84	0,80	0,77	0,73	0,69
	150	2,33	2,15	1,99	1,87	1,75	1,65	1,56	1,47	1,41	1,34	1,27	1,22	1,18	1,13	1,09	1,04	1,00	0,95	0,91	0,87
	175	2,72	2,51	2,34	2,18	2,04	1,92	1,82	1,72	1,64	1,56	1,49	1,43	1,37	1,31	1,26	1,21	1,16	1,12	1,07	1,02
Double	200	3,12	2,88	2,67	2,49	2,34	2,20	2,08	1,97	1,87	1,78	1,70	1,63	1,56	1,49	1,44	1,39	1,34	1,29	1,24	1,19
	50	0,59	0,33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	60	0,90	0,50	0,27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	80	1,67	1,00	0,57	0,28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	100	2,32	1,55	0,90	0,47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	120	1,87	1,68	1,25	0,68	0,29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	150	2,33	2,15	1,99	1,87	1,69	1,13	0,72	0,43	-	-	-	-	-	-	-	-	-	-	-	-
Multiple	175	2,72	2,51	2,33	2,18	2,04	1,87	1,53	1,08	0,74	0,50	0,32	-	-	-	-	-	-	-	-	-
	200	3,12	2,88	2,67	2,49	2,34	2,20	2,08	1,87	1,42	1,05	0,76	0,55	0,39	-	-	-	-	-	-	-
	50	1,07	0,88	0,70	0,57	0,47	0,41	0,35	0,29	-	-	-	-	-	-	-	-	-	-	-	-
	60	1,31	1,03	0,81	0,66	0,53	0,45	0,39	0,33	0,27	-	-	-	-	-	-	-	-	-	-	-
	80	1,79	1,35	1,02	0,78	0,63	0,49	0,42	0,35	0,28	-	-	-	-	-	-	-	-	-	-	-
	100	2,25	1,61	1,17	0,87	0,66	0,49	0,40	0,30	-	-	-	-	-	-	-	-	-	-	-	-
	120	1,87	1,67	1,25	0,88	0,62	0,44	0,31	-	-	-	-	-	-	-	-	-	-	-	-	-
Multiple	150	2,33	2,15	1,99	1,87	1,73	1,37	1,08	0,86	0,69	0,57	0,47	0,40	0,33	0,27	-	-	-	-	-	-
	175	2,72	2,51	2,34	2,18	2,04	1,89	1,73	1,41	1,16	0,96	0,80	0,69	0,59	0,50	0,45	0,40	0,35	0,30	-	-
	200	3,12	2,88	2,67	2,49	2,34	2,20	2,08	1,93	1,72	1,44	1,21	1,04	0,90	0,77	0,68	0,60	0,52	0,47	0,43	0,39

For other cases that doesn't fit within the assumptions presented above, please contact the technical assistance department of Joris Ide

- Span tables only valid for wall application.
- Values have been calculated using the method described in EN 14509:2013
- Deflection limit for short term loads: L/100
- The minimum required support width for end and intermediate supports is 40mm and 60mm. Larger support widths are possible. For intermediate values, linear interpolation may be used.
- Calculation of fasteners and hidden fix is not included. Maximum span width depends on the type of fixing, the number and type of fasteners as well as the support material and thickness
- In the case of double or triple span conditions, this span/load table can only be used when all spans are equal or when the difference between the spans is less than 10%.
- These span tables only consider the pressure/suction wind load.

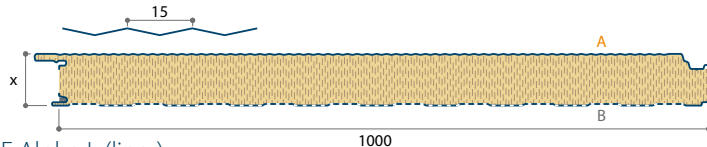
## JI Vulcasteel Wall 1000SF Alpha



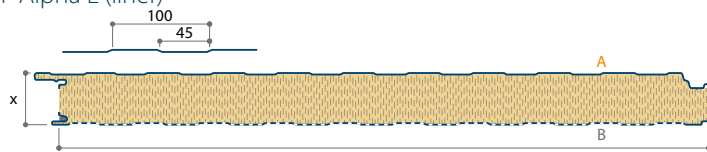
### Description

The JI Vulcasteel Wall 1000SF Alpha is an architectural mineral wool panel with a Liner, Microrib or smooth profiled outer sheet. The inner sheet is Liner profiled and made of 15 $\mu$  PE R9002. Due to the secret fixing the panel obtains a very high architectural finish for both vertical and horizontal applications. The JI Vulcasteel Wall 1000SF Alpha can be used in rooms with low or controlled humidity.

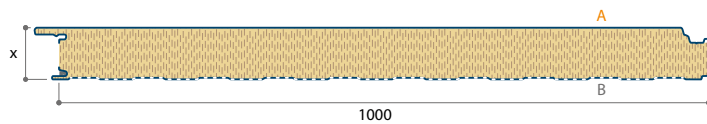
JI Vulcasteel Wall 1000SF Alpha M (microrib)



JI Vulcasteel Wall 1000SF Alpha L (liner)



JI Vulcasteel Wall 1000SF Alpha S (smooth)



The range of products Vulcasteel Alpha has a 23% perforated inner face. Ideal to increase the acoustic absorption.

### Properties

Core thickness	mm	50	60	80	100	120	150	175	200
Weight	kg/m <sup>2</sup>	14,98	15,98	17,98	19,98	21,97	24,97	27,47	29,97
U-value	W/m <sup>2</sup> K	0,86	0,71	0,54	0,43	0,36	0,29	0,25	0,21
Rw (acc.)	dB	28 (-3 ; -4)	29 (-4 ; -5)	28 (-2 ; -5)	28 (-2 ; -4)	29 (-2 ; -6)	29 (-2 ; -5)	29 (-1 ; -5)	30 (-2 ; -6)
$\alpha_w$	-	0,80	0,85	0,85	0,85	0,85	0,90	0,95	0,95

### System key benefits

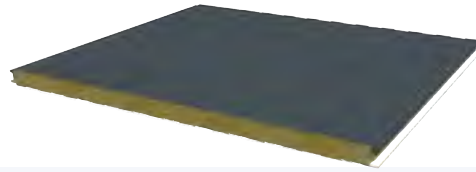
- Non-Combustible high density mineral wool core
- Standard 1000 mm modules
- Length up to 14 m
- Outer sheet can be Liner, Microrib, Plank or smooth profiling
- Different coatings and colours possible
- Inners sheet standard in liner profile 15 $\mu$  PE R9002. Other coatings are available on demand
- Fire classification NPD
- Mounting with spreader plate
- Vertical and horizontal application
- Fast mounting

### Performance JI Vulcasteel Wall 1000SF Alpha

Project-specific calculations available on request.

Please contact our technical assistance department for a loads and spans verification.

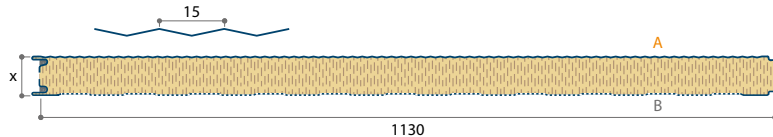
## JI Vulcasteel Wall Alpha



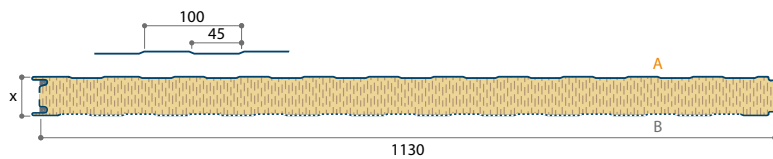
### Description

The JI Vulcasteel Wall Alpha is a mineral wool panel with liner or microrib exterior profiling. The inner sheet is Liner profiled and 15 $\mu$  PE R9002. The solution for your projects in the agricultural, industrial and even residential sectors with high acoustic requirements. The JI Vulcasteel Wall Alpha can be used in rooms with low or controlled humidity.

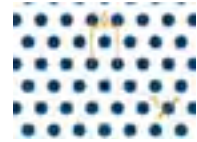
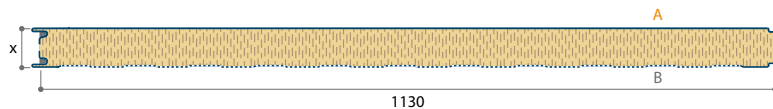
JI Vulcasteel Wall Alpha M (microrib)



JI Vulcasteel Wall Alpha L (liner)



JI Vulcasteel Wall Alpha S (smooth)



The range of products Vulcasteel Alpha has a 23% perforated inner face. Ideal to increase the acoustic absorption.

### Properties

Core thickness	mm	50	60	80	100	120	150	175	200	240
Weight	kg/m <sup>2</sup>	13.4	14.40	16.40	18.39	20.39	23.38	25.88	28.38	32.37
U-value	W/m <sup>2</sup> K	0,82	0,71	0,53	0,43	0,36	0,29	0,25	0,21	0,18
Rw (acc.)	DB	28 (-3 ; -5)	28 (-3 ; -5)	28 (-3 ; -5)	28 (-2 ; -5)	28 (-2 ; -5)	28 (-1 ; -5)	28 (-1 ; -5)	29 (-2 ; -5)	29 (-1 ; -4)
$\alpha_w$	-	0,80	0,85	0,90	0,85	0,85	1,00	0,95	0,95	0,95

### System key benefits

- Non-Combustible high density mineral wool core
- Standard 1130 mm modules
- Length up to 14 m
- Outer sheet can be Liner, Microrib or smooth profiling
- Visible fixation
- Different coatings and colours possible
- Inners sheet standard in liner profile 15 $\mu$  PE R9002. Other coatings are available on demand
- Vertical and horizontal application
- Fire classification NPD
- Fast mounting

### Performance JI Vulcasteel Wall Alpha

Project-specific calculations available on request.

Please contact our technical assistance department for a loads and spans verification.

## Product information

### JI Vulcasteel Roof

Classification (according to EN 13501, see page 15)

Combustibility	Smoke emission level	Flaming droplets
A2	s1	d0
Fire resistance		Protection to fire
JI Vulcasteel Roof 80 mm	REI 60	Inside ⇌ Outside
JI Vulcasteel Roof 100 mm	REI 120	Inside ⇌ Outside
JI Vulcasteel Roof 120 mm	REI 120	Inside ⇌ Outside

### JI Vulcasteel Wall 1000SF

Classification (according to EN 13501, see page 15)

Combustibility	Smoke emission level	Flaming droplets
A2	s1	d0
Fire resistance		Installation
JI Vulcasteel Wall 1000SF 100 mm	EI 60	Vertical
JI Vulcasteel Wall 1000SF 100 mm	EI 30 i->o	Horizontal
JI Vulcasteel Wall 1000SF 150 mm	EI 60	Horizontal
JI Vulcasteel Wall 1000SF 200 mm	EI 120	Vertical

### JI Vulcasteel Wall

Classification (according to EN 13501, see page 15)

Combustibility	Smoke emission level	Flaming droplets
A2	s1	d0
Fire resistance		Installation
JI Vulcasteel Wall 80 mm	EI 30	Vertical
JI Vulcasteel Wall 80 mm	EI 30	Horizontal
JI Vulcasteel Wall 120 mm	EI 90	Vertical
JI Vulcasteel Wall 150 mm	EI 120	Vertical
JI Vulcasteel Wall 150 mm	EI 60 / EI 120	Horizontal
JI Vulcasteel Wall 200 mm	EI 120	Vertical/Horizontal

The fire classifications above must be used under the terms mentioned on the fire reports.  
For the use of a perforated inner sheet (Vulcasteel Alpha Range) on a firewall, please contact the technical assistance department of Joris Ide.

## European Standard

European Standard EN 13501-1 provides the reaction to fire classification procedure for all products and building elements. According to this Standard, reaction to fire is the response of a product in contributing by its own decomposition to a fire which it is exposed, under specified conditions (not to be confused with the fire resistance).

Products are considered in relation to their end use application are divided into three main categories:

- Construction products
- Flooring
- Linear pipe thermal insulation products (not considered here)



## European Standard

Construction products are classified according harmonized test methods in Euroclass A1, A2, B, C, D & F. Products classified in a given class are deemed to satisfy all the requirements of any lower class. Products classified in A1 & A2 classes are non-combustible (cement, concrete, minerals, glass, fibreglass,

rock wool, ceramic, etc.), Materials certified from B to F are combustible in ascending order. Flooring materials are classified according to the same classes A1, A2, B, C, D, E & F followed by the abbreviation "fl" flooring.

## Classification according to European Standard EN 13501-1

Definition	Construction products			Floorings	
Non-combustible materials	A1			A <sub>fl</sub>	
Non-combustible materials	A2-s1, d0 A2-s2, d0 A2-s3, d0	A2-s1, d1 A2-s2, d1 A2-s3, d1	A2-s1, d2 A2-s2, d2 A2-s3, d2	A <sub>fl</sub> - s1	A <sub>fl</sub> - s2
Combustible materials very limited contribution to fire	B-s1, d0 B-s2, d0 B-s3, d0	B-s1, d1 B-s2, d1 B-s3, d1	B-s1, d2 B-s2, d2 B-s3, d2	B <sub>fl</sub> - s1	B <sub>fl</sub> - s2
Combustible materials limited contribution to fire	C-s1, d0 C-s2, d0 C-s3, d0	C-s1, d1 C-s2, d1 C-s3, d1	C-s1, d2 C-s2, d2 C-s3, d2	C <sub>fl</sub> - s1	C <sub>fl</sub> - s1
Combustible materials medium contribution to fire	D-s1, d0 D-s2, d0 D-s3, d0	D-s1, d1 D-s2, d1 D-s3, d1	D-s1, d2 D-s2, d2 D-s3, d2	D <sub>fl</sub> - s1	D <sub>fl</sub> - s1
Combustible materials highly contribution to fire	E		E - d2	E <sub>fl</sub>	
Combustible materials - easily flammable	F			F <sub>fl</sub>	

## Description

All the materials classified A2, B, C, D obtain an additional classification regarding the emission of smoke and the production of flaming droplets and/or particles.

	Definition	Level	Level definition
<b>s</b>	Smoke emission level during combustion	<b>s1</b>	Quantity/Speed of emission absent or weak
		<b>s2</b>	Quantity/speed of emission of average intensity
		<b>s3</b>	Quantity/speed of emission of high intensity
<b>d</b>	Production of flaming droplets/particles during combustion	<b>d0</b>	No dripping
		<b>d1</b>	Slow dripping
		<b>d2</b>	High dripping

For the E class is provided one single subclass d2. For flooring products is provided the additional classification "s" for smoke emission only.



Jl Vulcasteel Wall and Jl Vulcasteel Wall 1000SF next to each other.



Jl Vulcasteel Wall 1000SF in a commercial project.



Jl Vulcasteel Wall Alpha, an acoustic variation of the product.





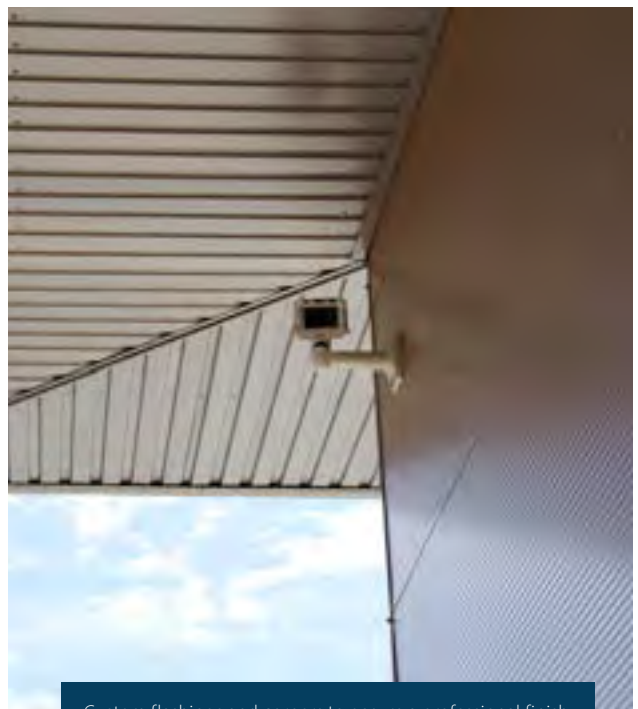
Jl Vulcasteel Wall 1000SF used in an industrial project.



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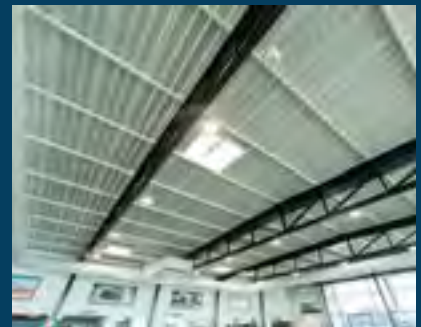
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