

Frontpage wall

As of 12 / 2018

General notes on span tables for wall panels

Note the following:

- The characteristic loads are to be determined according to the terms of valid standards and eurocodes.
- Choose the minimal supporting width from wind pressure and wind suction for the respective case of application.
- Colour groups I (very light), II (light) and III (dark) – see approval.
- This span table is valid for buildings with normal interior climate (no cold store or ripening facilities).
- Valid supporting widths are stated in meters (m), necessary support widths in millimetres (mm), see example below.
- Deflection amounts to a maximum of $L/200$ under consideration of all unfavourable loads according to approval.
- The stated supporting widths apply to multi-span beams and direct attachment up to max. 5 screws per intermediate support line and meter. When using more than 5 screws per meter, the crush tension needs to be checked according the requirements of the approval.
- In each case a separate proof for fixing material is required (for tensile load of wind suction and temperature, for pulling-out of the subconstruction and for screw-head-deflection).

Example:

From wind pressure table:

40	→ end support width necessary (mm)
5,05	→ valid supporting width (m)
60	→ intermedediate support width necessary (mm)

From wind suction table:

4,73	→ valid supporting width (m)
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valid supporting width = 4,73 m
(lowest value of both tables)

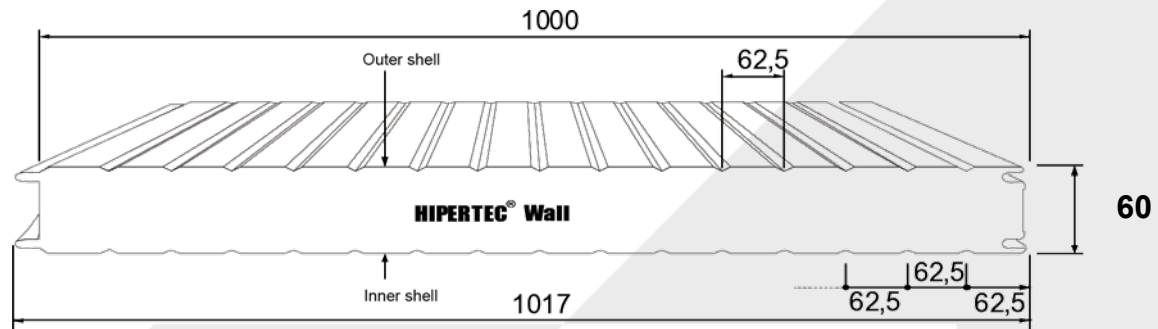
Span table 61-06

As of 12 / 2018

Hipertec Wall 60 mm

$t_N = 0,60 / 0,60$ mm

Max. valid supporting widths stated in the following table are calculated according to approval Z-10.49-517 with additions from 18th of August 2011 in accordance with assessment Z-1256 from 30th of January 2013 according to EN 14509. Instructions for the application of the table can be gathered from the front page.



Wind Pressure Loads

Stat. System	Colour Group	Wind Pressure Load in kN / m ²										
		0,25	0,30	0,40	0,50	0,60	0,80	1,00	1,25	1,50	1,75	2,00
1-Panel	I, II, III	40 7,00	40 6,39	40 5,24	40 4,19	40 3,49	40 2,62	40 2,09	40 1,67	40 1,39	40 1,19	40 1,04
2-Panels	I	40 6,22 60	40 5,75 60	40 5,10 60	40 4,19 60	40 3,49 60	40 2,62 60	40 2,09 60	40 1,67 60	40 1,39 60	40 1,19 60	40 1,04 60
	II	40 6,22 60	40 5,75 60	40 5,10 60	40 4,19 60	40 3,49 60	40 2,62 60	40 2,09 60	40 1,67 60	40 1,39 60	40 1,19 60	40 1,04 60
	III	40 2,00 60	40 2,00 60	40 2,00 60	40 2,00 60	40 2,00 60	40 2,00 60	40 2,00 60	40 1,67 60	40 1,39 60	40 1,19 60	40 1,04 60
3-Panels	I	40 7,00 60	40 6,39 60	40 5,24 60	40 4,19 60	40 3,49 60	40 2,62 60	40 2,09 60	40 1,67 60	40 1,39 60	40 1,19 60	40 1,04 60
	II	40 7,00 60	40 6,39 60	40 5,24 60	40 4,19 60	40 3,49 60	40 2,62 60	40 2,09 60	40 1,67 60	40 1,39 60	40 1,19 60	40 1,04 60
	III	40 2,38 60	40 2,38 60	40 2,38 60	40 2,38 60	40 2,38 60	40 2,38 60	40 2,09 60	40 1,67 60	40 1,39 60	40 0,81 60	40 0,71 60

Wind Suction Loads

Stat. System	Colour Group	Wind Suction Load in kN / m ²										
		0,25	0,30	0,40	0,50	0,60	0,80	1,00	1,25	1,50	1,75	2,00
1-Panel	I, II, III	5,90	5,75	5,24	4,19	3,49	2,62	2,09	1,67	1,39	1,19	1,04
2-Panels	I	6,08	5,62	4,97	4,19	3,49	2,62	2,09	1,67	1,39	1,19	1,04
	II	3,70	3,54	3,30	3,12	2,98	2,62	2,09	1,67	1,39	1,19	1,04
	III	1,92	1,91	1,89	1,86	1,84	1,81	1,78	1,67	1,39	1,19	1,04
3-Panels	I	7,38	6,73	5,24	4,19	3,49	2,62	2,09	1,67	1,39	1,19	1,04
	II	5,86	5,39	4,74	4,19	3,49	2,62	2,09	1,67	1,39	1,19	1,04
	III	2,12	2,09	2,02	1,98	1,94	1,86	1,80	1,00	0,78	0,70	0,65

Span table 61-08

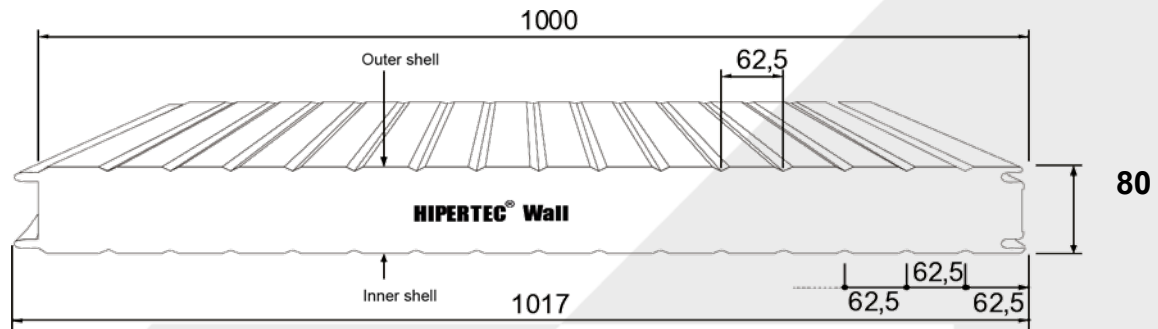
As of 12 / 2018



Hipertec Wall 80 mm

$t_N = 0,60 / 0,60$ mm

Max. valid supporting widths stated in the following table are calculated according to approval Z-10.49-517 with additions from 18th of August 2011 in accordance with assessment Z-1256 from 30th of January 2013 according to EN 14509. Instructions for the application of the table can be gathered from the front page.



Wind Pressure Loads

Stat. System	Colour Group	Wind Pressure Load in kN / m ²											
		0,25	0,30	0,40	0,50	0,60	0,80	1,00	1,25	1,50	1,75	2,00	
1-Panel	I, II, III	40	40	40	40	40	40	40	40	40	40	40	40
		8,10	7,39	6,40	5,61	4,68	3,50	2,80	2,24	1,87	1,60	1,40	
2-Panels	I	40	40	40	40	40	40	40	40	40	40	40	
		7,21	6,67	5,92	5,42	4,68	3,50	2,80	2,24	1,87	1,60	1,40	
	60	60	65	75	78	77	77	77	77	77	77		
	II	40	40	40	40	40	40	40	40	40	40	40	
		7,21	6,67	5,92	5,42	4,68	3,50	2,80	2,24	1,87	1,60	1,40	
	60	60	65	75	78	77	77	77	77	77	77		
III	40	40	40	40	40	40	40	40	40	40	40		
	2,34	2,34	2,34	2,34	2,34	2,34	2,80	2,24	1,87	1,60	1,40		
60	60	60	60	60	60	65	77	78	77	77			
3-Panels	I	40	40	40	40	40	40	40	40	40	40	40	
		8,10	7,39	6,40	5,61	4,68	3,50	2,80	2,24	1,87	1,60	1,40	
	60	61	61	78	78	77	77	77	77	77	77		
	II	40	40	40	40	40	40	40	40	40	40	40	
		8,10	7,39	6,40	5,61	4,68	3,50	2,80	2,24	1,87	1,60	1,40	
	60	61	71	78	78	77	77	77	77	77	77		
III	40	40	40	40	40	40	40	40	40	40	40		
	2,82	2,82	2,82	2,82	2,82	2,82	2,80	2,24	1,87	1,60	1,40		
60	60	60	60	60	60	62	77	77	78	77			

Wind Suction Loads

Stat. System	Colour Group	Wind Suction Load in kN / m ²										
		0,25	0,30	0,40	0,50	0,60	0,80	1,00	1,25	1,50	1,75	2,00
1-Panel	I, II, III	7,61	7,40	6,75	5,61	4,68	3,50	2,80	2,24	1,87	1,60	1,40
2-Panels	I	7,05	6,51	5,77	5,27	4,68	3,50	2,80	2,24	1,87	1,60	1,40
	II	4,32	4,13	3,84	3,64	3,48	3,24	2,80	2,24	1,87	1,60	1,40
	III	2,26	2,24	2,22	2,19	2,17	2,12	2,80	2,04	1,87	1,60	1,40
3-Panels	I	8,54	7,79	6,75	5,61	4,68	3,50	2,80	2,24	1,87	1,60	1,40
	II	6,79	6,25	5,49	4,98	4,60	3,50	2,80	2,24	1,87	1,60	1,40
	III	2,50	2,46	2,38	2,32	2,26	2,18	2,10	2,04	1,87	1,60	1,40

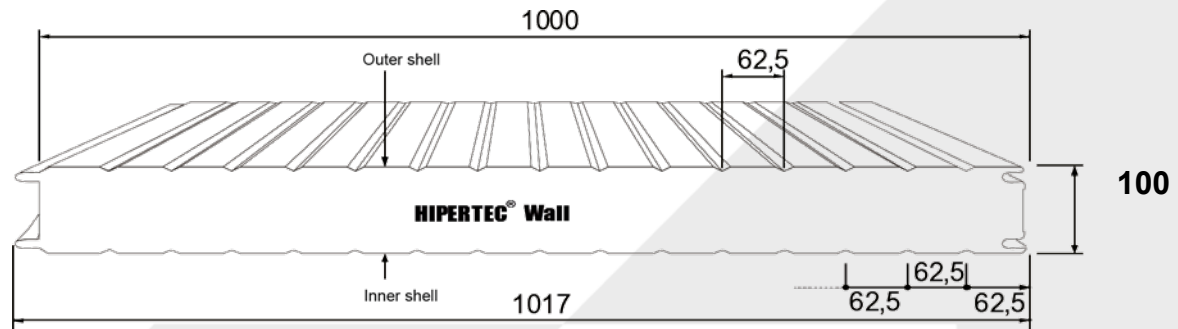
Span table 61-10

As of 12 / 2018

Hipertec Wall 100 mm

$t_N = 0,60 / 0,60$ mm

Max. valid supporting widths stated in the following table are calculated according to approval Z-10.49-517 with additions from 18th of August 2011 in accordance with assessment Z-1256 from 30th of January 2013 according to EN 14509. Instructions for the application of the table can be gathered from the front page.



Wind Pressure Loads

Stat. System	Colour Group	Wind Pressure Load in kN / m ²										
		0,25	0,30	0,40	0,50	0,60	0,80	1,00	1,25	1,50	1,75	2,00
1-Panel	I, II, III	40 9,06	40 8,28	40 7,17	44 6,41	49 5,85	49 4,39	49 3,52	49 2,81	49 2,34	49 2,01	49 1,76
2-Panels	I	40 8,09 60	40 7,49 62	40 6,65 74	42 6,08 84	47 5,67 94	49 4,39 97	49 3,21 97	49 2,81 97	49 2,34 97	49 2,01 97	49 1,76 97
	II	40 8,09 60	40 7,49 62	40 6,65 74	42 6,08 84	47 5,67 94	49 4,39 97	49 3,52 97	49 2,81 97	49 2,34 97	49 2,01 97	49 1,76 97
	III	40 2,67 60	40 2,67 60	40 2,67 60	40 2,67 60	40 2,67 60	40 2,67 60	40 2,67 74	46 2,67 92	49 2,34 97	49 2,01 97	49 1,76 97
3-Panels	I	40 9,06 63	40 8,28 69	40 7,17 79	44 6,41 89	49 5,85 97	49 4,39 97	49 3,52 97	49 2,81 97	49 2,34 97	49 2,01 97	49 1,76 97
	II	40 9,06 63	40 8,28 69	40 7,17 79	44 6,41 89	49 5,85 97	49 4,39 97	49 3,52 97	49 2,81 97	49 2,34 97	49 2,01 97	49 1,76 97
	III	40 3,20 60	40 3,20 60	40 3,20 60	40 3,20 60	40 3,20 60	40 3,20 71	44 3,20 80	49 2,81 97	49 2,34 97	49 2,01 97	49 1,76 97

Wind Suction Loads

Stat. System	Colour Group	Wind Suction Load in kN / m ²										
		0,25	0,30	0,40	0,50	0,60	0,80	1,00	1,25	1,50	1,75	2,00
1-Panel	I, II, III	9,24	8,72	7,55	6,76	5,86	4,39	3,52	2,81	2,34	2,01	1,76
2-Panels	I	7,90	7,31	6,48	5,91	5,50	4,39	3,52	2,81	2,34	2,01	1,76
	II	4,88	4,66	4,34	4,11	3,93	3,66	3,46	2,81	2,34	2,01	1,76
	III	2,57	2,55	2,52	2,49	2,46	2,41	2,36	2,32	2,28	2,01	1,76
3-Panels	I	9,56	8,72	7,55	6,76	5,86	4,40	3,52	2,81	2,34	2,01	1,76
	II	7,61	7,00	6,16	5,58	5,16	4,39	3,52	2,81	2,34	2,01	1,76
	III	2,84	2,78	2,70	2,63	2,57	2,47	2,38	2,30	2,24	2,01	1,76

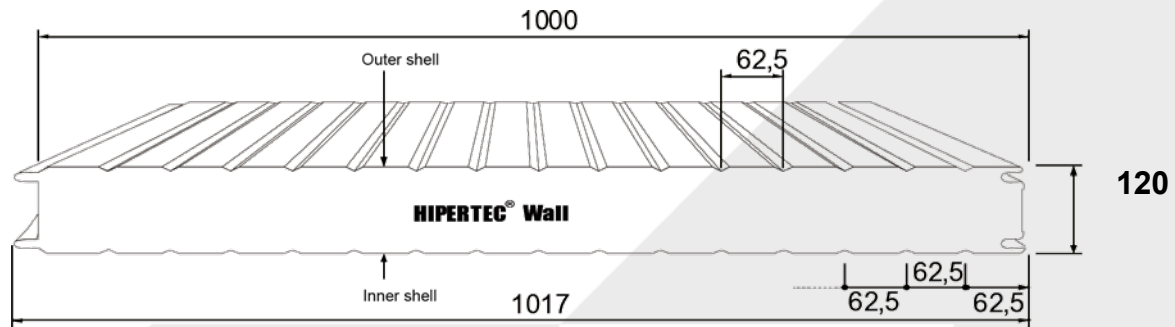
Span table 61-12

As of 12 / 2018

Hipertec Wall 120 mm

$t_N = 0,60 / 0,60$ mm

Max. valid supporting widths stated in the following table are calculated according to approval Z-10.49-517 with additions from 18th of August 2011 in accordance with assessment Z-1256 from 30th of January 2013 according to EN 14509. Instructions for the application of the table can be gathered from the front page.



Wind Pressure Loads

Stat. System	Colour Group	Wind Pressure Load in kN / m ²										
		0,25	0,30	0,40	0,50	0,60	0,80	1,00	1,25	1,50	1,75	2,00
1-Panel	I, II, III	40 9,94	40 9,07	43 7,86	49 7,03	53 6,41	58 5,28	58 4,22	58 3,38	58 2,82	58 2,41	58 2,11
2-Panels	I	40 8,89 61	40 8,23 68	40 7,32 81	46 6,69 92	52 6,24 103	58 5,28 117	58 4,22 117	58 3,38 117	58 2,82 117	58 2,41 117	58 2,11 117
	II	40 8,89 61	40 8,23 68	40 7,32 81	46 6,69 92	52 6,24 103	58 5,28 117	58 4,22 117	58 3,38 117	58 2,82 117	58 2,41 117	58 2,11 117
	III	40 2,98 60	40 2,98 60	40 2,98 60	40 2,98 60	40 2,98 60	40 2,98 66	41 2,98 82	51 2,98 103	58 2,82 117	58 2,41 117	58 2,11 117
3-Panels	I	40 9,94 69	40 9,07 75	43 7,86 87	49 7,03 97	53 6,41 106	58 5,28 117	58 4,22 117	58 3,38 117	58 2,82 117	58 2,41 117	58 2,11 117
	II	40 9,94 69	40 9,07 75	43 7,86 87	49 7,03 97	53 6,41 106	58 5,28 117	58 4,22 117	58 3,38 117	58 2,82 117	58 2,41 117	58 2,11 117
	III	40 3,35 60	40 3,35 60	40 3,35 60	40 3,35 60	40 3,35 60	40 3,35 79	40 3,35 99	49 3,35 117	58 2,82 117	58 2,41 117	58 2,11 117

Wind Suction Loads

Stat. System	Colour Group	Wind Suction Load in kN / m ²										
		0,25	0,30	0,40	0,50	0,60	0,80	1,00	1,25	1,50	1,75	2,00
1-Panel	I, II, III	10,48	9,56	8,28	7,41	6,76	5,28	4,22	3,38	2,82	2,41	2,11
2-Panels	I	8,69	8,03	7,12	6,50	6,05	5,28	4,22	3,38	2,82	2,41	2,11
	II	5,39	5,15	4,80	4,54	4,34	4,04	3,83	3,38	2,82	2,41	2,11
	III	2,86	2,84	2,80	2,77	2,74	2,68	2,63	2,58	2,82	2,41	2,11
3-Panels	I	10,48	9,56	8,28	7,41	6,76	5,28	4,22	3,38	2,82	2,41	2,11
	II	8,36	7,69	6,76	6,13	5,67	5,03	4,22	3,38	2,82	2,41	2,11
	III	3,15	3,10	3,00	2,92	2,86	2,74	2,65	2,56	2,48	2,41	2,11

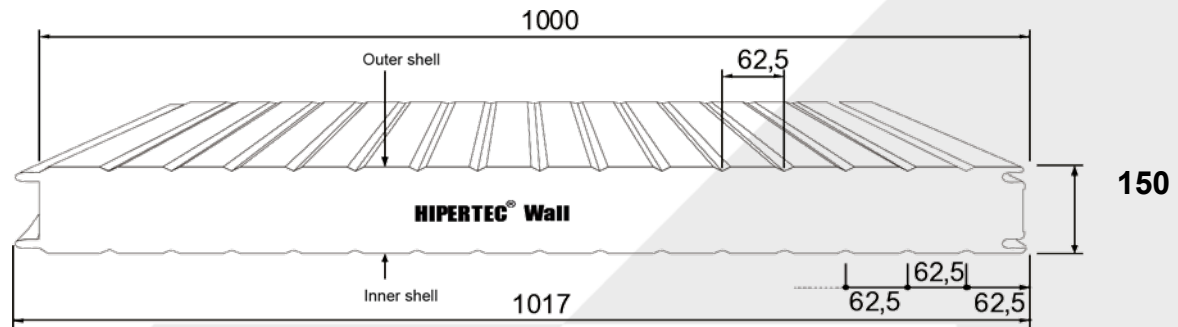
Span table 61-15

As of 12 / 2018

Hipertec Wall 150 mm

$t_N = 0,60 / 0,60$ mm

Max. valid supporting widths stated in the following table are calculated according to approval Z-10.49-517 with additions from 18th of August 2011 in accordance with assessment Z-1256 from 30th of January 2013 according to EN 14509. Instructions for the application of the table can be gathered from the front page.



Wind Pressure Loads

Stat. System	Colour Group	Wind Pressure Load in kN / m ²										
		0,25	0,30	0,40	0,50	0,60	0,80	1,00	1,25	1,50	1,75	2,00
1-Panel	I, II, III	40 11,62	44 10,61	51 9,19	57 8,22	62 7,50	72 6,50	73 5,29	73 4,23	73 3,53	73 3,02	73 2,64
2-Panels	I	40 10,91 75	42 10,07 84	49 8,90 98	56 8,11 112	62 7,50 124	72 6,50 114	73 5,29 146	73 4,23 146	73 3,53 146	73 3,02 146	73 2,64 146
	II	40 9,98 69	41 9,98 83	49 8,90 98	56 8,11 112	62 7,50 124	72 6,50 114	73 5,29 146	73 4,23 146	73 3,53 146	73 3,02 146	73 2,64 146
	III	40 3,13 60	40 3,13 60	40 3,13 60	40 3,13 60	40 3,13 62	40 3,13 70	43 3,13 87	54 3,13 108	65 3,13 130	73 3,02 146	73 2,64 146
3-Panels	I	40 11,62 80	44 10,61 88	51 9,19 102	57 8,22 114	62 7,50 124	72 6,50 114	73 5,29 146	73 4,23 146	73 3,53 146	73 3,02 146	73 2,64 146
	II	40 11,62 80	44 10,61 88	51 9,19 102	57 8,22 114	62 7,50 124	72 6,50 114	73 5,29 146	73 4,23 146	73 3,53 146	73 3,02 146	73 2,64 146
	III	40 3,40 60	40 3,40 60	40 3,40 60	40 3,40 60	40 3,40 60	40 3,40 75	47 3,40 94	59 3,40 117	70 3,40 141	73 3,02 146	73 2,64 146

Wind Suction Loads

Stat. System	Colour Group	Wind Suction Load in kN / m ²										
		0,25	0,30	0,40	0,50	0,60	0,80	1,00	1,25	1,50	1,75	2,00
1-Panel	I, II, III	12,06	11,01	9,54	8,53	7,78	6,61	5,29	4,23	3,53	3,02	2,64
2-Panels	I	9,17	8,50	7,57	6,93	6,46	5,80	5,29	4,23	3,53	3,02	2,64
	II	5,52	5,32	5,00	4,76	4,58	4,29	4,08	3,88	3,53	3,02	2,64
	III	3,03	3,01	2,98	2,94	2,92	2,86	2,82	2,76	2,72	2,67	2,64
3-Panels	I	12,06	11,01	9,54	8,53	7,78	6,61	5,29	4,23	3,53	3,02	2,64
	II	8,61	7,94	7,01	6,38	5,92	5,28	4,84	4,23	3,53	3,02	2,64
	III	3,14	3,10	3,04	2,98	2,92	2,82	2,75	2,67	2,60	2,54	2,49

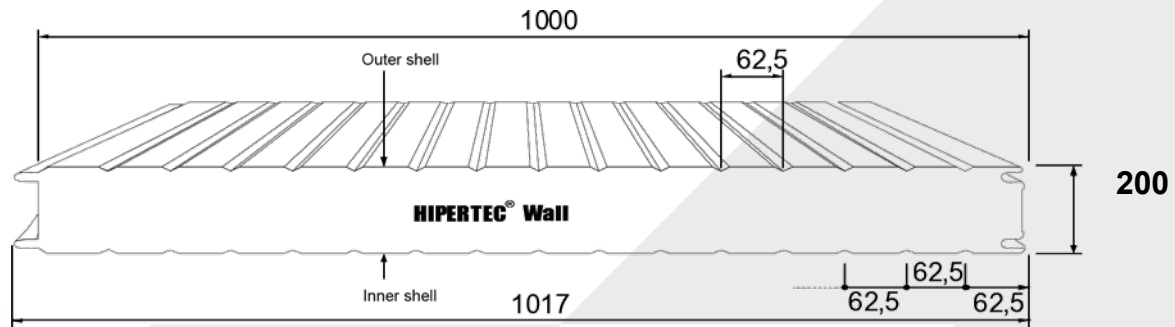
Span table 61-20

As of 12 / 2018

Hipertec Wall 200 mm

$t_N = 0,60 / 0,60$ mm

Max. valid supporting widths stated in the following table are calculated according to approval Z-10.49-517 with additions from 18th of August 2011 in accordance with assessment Z-1256 from 30th of January 2013 according to EN 14509. Instructions for the application of the table can be gathered from the front page.



Wind Pressure Loads

Stat. System	Colour Group	Wind Pressure Load in kN / m ²										
		0,25	0,30	0,40	0,50	0,60	0,80	1,00	1,25	1,50	1,75	2,00
1-Panel	I, II, III	46	51	59	66	72	83	93	98	98	98	98
		13,44	12,26	10,62	9,50	8,67	7,51	6,72	5,65	4,71	4,04	3,53
2-Panels	I	44	48	57	95	72	83	93	98	98	98	98
		12,65	11,67	10,31	9,39	8,67	7,51	6,72	5,65	4,71	4,04	3,53
		87	97	114	130	144	166	186	195	195	195	195
	II	41	48	57	95	72	83	93	98	98	98	98
		11,87	11,67	10,31	9,39	8,67	7,51	6,72	5,65	4,71	4,04	3,53
		82	97	114	130	144	166	186	195	195	195	195
III	40	40	40	40	41	44	50	63	75	88	98	
	3,63	3,63	3,63	3,63	3,63	3,63	3,63	3,63	3,63	3,63	3,53	
	60	60	64	67	71	81	100	125	151	176	195	
3-Panels	I	46	51	59	66	72	83	93	98	98	98	98
		13,44	12,26	10,62	9,50	8,67	7,51	6,72	5,65	4,71	4,04	3,53
		93	102	117	131	144	166	186	195	195	195	195
	II	46	51	59	66	72	83	93	98	98	98	98
		13,44	12,26	10,62	9,50	8,67	7,51	6,72	5,65	4,71	4,04	3,53
		93	102	117	131	144	166	186	195	195	195	195
III	40	40	40	40	40	44	55	69	83	96	98	
	3,98	3,98	3,98	3,98	3,98	3,98	3,98	3,98	3,98	3,98	3,53	
	60	60	60	60	66	88	110	138	165	193	195	

Wind Suction Loads

Stat. System	Colour Group	Wind Suction Load in kN / m ²										
		0,25	0,30	0,40	0,50	0,60	0,80	1,00	1,25	1,50	1,75	2,00
1-Panel	I, II, III	13,94	12,72	11,02	9,86	9,00	7,79	6,97	5,65	4,71	4,04	3,53
2-Panels	I	10,63	9,85	8,76	8,03	7,48	6,72	6,20	5,65	4,71	4,04	3,53
	II	6,41	6,17	5,80	5,53	5,31	4,97	4,73	4,49	4,30	4,04	3,53
	III	3,51	3,49	3,45	3,41	3,38	3,32	3,26	3,20	3,14	3,10	3,05
3-Panels	I	13,94	12,72	11,02	9,86	9,00	7,79	6,97	5,65	4,71	4,04	3,53
	II	10,00	9,22	8,14	7,41	6,87	6,12	5,61	5,15	4,71	4,04	3,53
	III	3,66	3,61	3,53	3,46	3,39	3,28	3,19	3,10	3,02	2,95	2,88