

Table of spans

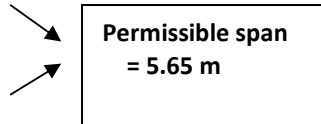
Comments on wall element tables	2
Calculation of wind load.....	3
Roof elements according to the general building authority approval Z-10.49-837	
ROMA FPeco 60 LL/ML or FVeco 60 LL/ML $t_N=0.6/0.5$ mm	4
ROMA FPeco 80 LL/ML or FVeco 80 LL/ML $t_N=0.6/0.5$ mm	6
ROMA FPeco 100 LL/ML or FVeco 100 LL/ML $t_N=0.6/0.5$ mm	8
ROMA FPeco 120 LL/ML or FVeco 120 LL/ML $t_N=0.6/0.5$ mm	10
ROMA FPeco 140 LL/ML or FVeco 140 LL/ML $t_N=0.6/0.5$ mm	12
ROMA FPeco 150 LL/ML or FVeco 150 LL/ML $t_N=0.6/0.5$ mm	14
ROMA FPeco 170 LL/ML or FVeco 170 LL/ML $t_N=0.6/0.5$ mm	16
ROMA FPeco 200 LL/ML or FVeco 200 LL/ML $t_N=0.6/0.5$ mm	18
ROMA FPeco 240 LL/ML or FVeco 240 LL/ML $t_N=0.6/0.5$ mm	20
Roof elements according to the general building authority approval Z-10.49-837	
ROMA FP60 LL/ML or FV60 LL/ML $t_N=0.6/0.5$ mm	22
ROMA FP80 LL/ML or FV80 LL/ML $t_N=0.6/0.5$ mm	24
ROMA FP100 LL/ML or FV100 LL/ML $t_N=0.6/0.5$ mm	26
ROMA FP120 LL/ML or FV120 LL/ML $t_N=0.6/0.5$ mm	28
ROMA FP140 LL/ML or FV140 LL/ML $t_N=0.6/0.5$ mm	30
ROMA FP150 LL/ML or FV150 LL/ML $t_N=0.6/0.5$ mm	32
ROMA FP170 LL/ML or FV170 LL/ML $t_N=0.6/0.5$ mm	34
ROMA FP200 LL/ML or FV200 LL/ML $t_N=0.6/0.5$ mm	36
ROMA FP240 LL/ML or FV240 LL/ML $t_N=0.6/0.5$ mm	38

COMMENTS ON THE TABLES FOR WALL ELEMENTS

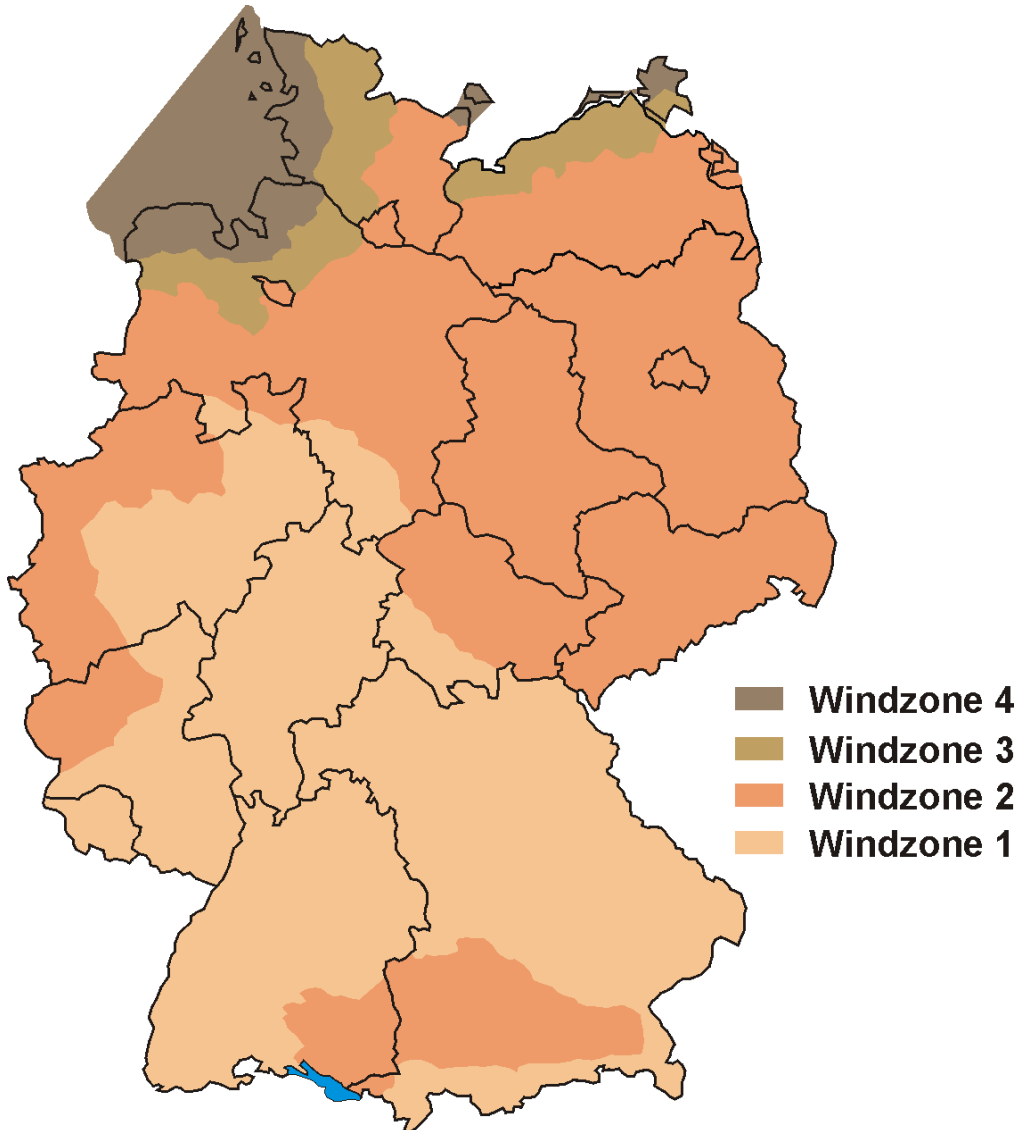
When using the tables, the following should be observed:

1. The characteristic loads must be determined in accordance with Eurocodes.
2. Values in accordance with Table E.6 and E.8 EN 14509, appendix E are the basis for load factors and combined coefficients.
3. The general building authority approval Z-10.49-836 and Z-10.49-837 of June 2021 serves as the basis for the load bearing capacity and the calculation parameters.
4. The relevant minimum span in the tables for wind pressure and wind uplift pressure requirements should be selected for each application case.
5. In the case of double- and triple-span girders/beams, only approximately identical span ratios are permissible (approximately $1.0 \leq \text{min.}l/\text{max.}l \leq 0.8$).
6. Application in buildings with normal interior temperatures of 20 to 25 °C.
7. At most, the deflection amounts to $l/100$ while considering all unfavourable loads.
Spans in the additional line marked with * are not relevant for calculations where deflection is restricted.
8. Spans in the “Characteristic wind uplift pressure” table do not take fasteners into consideration. Fasteners have to be verified on a case-by-case basis and can at number > 5 pieces reduce the specified span.
9. The quantity of direct fasteners was calculated using a characteristic screw load capacity of $N_{R,k} = 2.3 \text{ kN}$.
10. Interpolation between spans and numbers of screws is possible, but extrapolation is not.
11. See approvals Z-10.49-836 and Z-10.49-837 for specific instructions related to load capacity, calculation parameters and their monitoring.
12. Please refer to the Roma color chart for information about surface colors and their category: I (very light), II (light) and III (dark).
13. Permissible spans are listed in m and the required support width in mm; see the following reading example.

READING EXAMPLE

From “Wind pressure” table	46 5.65 92	Required end support width in millimetres Permissible span based on element verification in m Required intermediate support width in mm
		
From “Wind uplift” table	6.05	Permissible span based on element verification
From “Wind uplift” table	3	Number of screws per meter at support
For screws	3.5	Permissible span in m with 3 screws per support

CALCULATION OF WIND LOAD



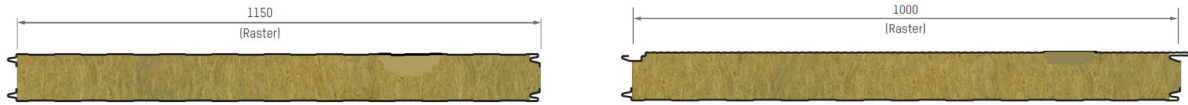
Source: <http://de.wikipedia.org/wiki/windlast>

Table 1: Characteristic wind load (kN/m²)

Building height	WIND LOAD ZONE				
		1	2	3	4
5 m	PERIPHERAL AREA	0.34/-0.58/-0.67	0.41/-0.71/-0.82	0.49/-0.85/-0.99	0.59/-1.01/-1.18
	NORMAL AREA	0.34/-0.38/-0.53	0.41/-0.47/-0.64	0.49/-0.56/-0.78	0.59/-0.67/-0.92
10 m	PERIPHERAL AREA	0.39/-0.65/-0.76	0.48/-0.80/-0.93	0.58/-0.96/-1.12	0.69/-1.14/-1.33
	NORMAL AREA	0.39/-0.44/-0.66	0.48/-0.53/-0.73	0.58/-0.64/-0.88	0.69/-0.76/-1.05
15 m	PERIPHERAL AREA	0.47/-0.76/-0.88	0.58/-0.92/-1.08	0.69/-1.11/-1.30	0.83/-1.33/-1.55
	NORMAL AREA	0.47/-0.51/-0.70	0.58/-0.62/-0.85	0.69/-0.74/-1.02	0.83/-0.88/-1.22

Note 3: Example values for buildings in the onshore terrain category
(wind pressure/general wind uplift pressure/wind uplift pressure for screws)

Permissible spans for ROMA wall elements FPeco 60 LL/ML 0.6/0.5 or FVeco 60 ML/LL 0.6/0.5



The following spans have been verified in accordance with the general building authority approval Z-10.49-836 of June 10. 2021 as well as based on EN 14509. Annex E. particularly using table E.6 and E.8. The most adverse loading condition combination consisting of wind and temperature has been verified in accordance with EN 14509. Annex E. The application notes (see page 2) must be observed.

Table W.1: Wind pressure

Structural system	Color group	Characteristic wind pressure in kN/m ²											
		0,25	0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00
1- span	I,II,III	42	91	91	91	91	91	91	91	91	91	91	91
		7,78	4,21	2,81	2,10	1,68	1,40	1,20	1,05	0,94	0,84	0,77	0,70
2- span	I,II	40	45	45	45	45	45	45	45	45	46	46	46
		6,02	4,21	2,81	2,1	1,68	1,4	1,2	1,05	0,94	0,84	0,77	0,7
	65	91	91	91	91	91	91	91	91	91	91	91	
	III	40	40	44	45	45	45	45	45	45	46	46	46
2,73		2,73	2,73	2,11	1,68	1,40	1,20	1,05	0,94	0,84	0,77	0,70	
3- span	I	42	45	45	45	45	45	45	45	45	46	46	46
		7,78	4,21	2,81	2,11	1,68	1,40	1,20	1,05	0,94	0,84	0,77	0,70
	84	91	91	91	91	91	91	91	91	91	91	91	
	II	42	45	45	45	45	45	45	45	45	46	46	46
		7,78	4,21	2,81	2,11	1,68	1,40	1,20	1,05	0,94	0,84	0,77	0,70
	84	91	91	91	91	91	91	91	91	91	91	91	
III	40	40	45	45	45	45	46	45	45	46	46	46	
	3,58	3,58	2,81	2,10	1,68	1,40	1,20	1,05	0,94	0,84	0,77	0,70	
		60	77	91	91	91	91	91	91	91	91	91	

Table W.2: Wind uplift pressure

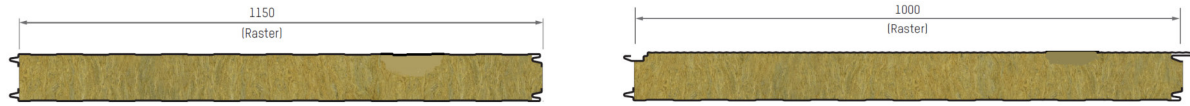
(see Comments no. 8)

Structural system	Color group	Wind uplift pressure kN/m ²											
		-0,25	-0,50	-0,75	-1,00	-1,25	-1,50	-1,75	-2,00	-2,25	-2,50	-2,75	-3,00
1- s span	I,II,III	7,28	4,21	2,81	2,10	1,68	1,40	1,20	1,05	0,94	0,84	0,77	0,70
2-Feld	I	6,20	4,21	2,81	2,10	1,68	1,40	1,20	1,05	0,94	0,84	0,77	0,70
	II	4,29	3,58	2,81	2,10	1,68	1,40	1,20	1,05	0,94	0,84	0,77	0,70
	III	2,54	2,41	2,31	2,10	1,68	1,40	1,20	1,05	0,94	0,84	0,77	0,70
3- span	I	7,28	4,21	2,81	2,10	1,68	1,40	1,20	1,05	0,94	0,84	0,77	0,70
	II	5,94	4,21	2,81	2,11	1,68	1,40	1,20	1,05	0,94	0,84	0,77	0,70
	III	2,79	2,50	2,33	2,10	1,68	1,40	1,20	1,05	0,94	0,84	0,77	0,70

Table W.3: Characteristic wind uplift for screws in kN/m², direct fastening with 3 or 5 screws per support (see Comments no. 9)

Structural system	Color group	Characteristic wind uplift for screws in kN/m ²											
		-0,25	-0,50	-0,75	-1,00	-1,25	-1,50	-1,75	-2,00	-2,25	-2,50	-2,75	-3,00
1- span	I,II,III	3	3	3	3	3	3	3	3	3	3	3	3
		7,28	4,21	2,81	2,11	1,69	1,40	1,20	1,05	0,94	0,84	0,77	0,70
		5	5	5	5	5	5	5	5	5	5	5	5
		7,28	4,21	2,81	2,11	1,69	1,40	1,20	1,05	0,94	0,84	0,77	0,70
2- span	I	3	3	3	3	3	3	3	3	3	3	3	3
		6,20	4,21	2,81	2,10	1,68	1,40	1,20	1,05	0,94	0,84	0,77	0,70
		5	5	5	5	5	5	5	5	5	5	5	5
		6,20	4,21	2,81	2,10	1,68	1,40	1,20	1,05	0,94	0,84	0,77	0,70
	II	3	3	3	3	3	3	3	3	3	3	3	3
		4,29	3,58	2,81	2,10	1,68	1,40	1,20	1,05	0,94	0,84	0,77	0,70
		5	5	5	5	5	5	5	5	5	5	5	5
		4,29	3,58	2,81	2,10	1,68	1,40	1,20	1,05	0,94	0,84	0,77	0,70
	III	3	3	3	3	3	3	3	3	3	3	3	3
		2,54	2,41	2,31	2,08	1,68	1,40	1,20	1,05	0,94	0,84	0,77	0,70
		5	5	5	5	5	5	5	5	5	5	5	5
		2,54	2,41	2,31	2,10	1,68	1,40	1,20	1,05	0,94	0,84	0,77	0,70
3- span	I	3	3	3	3	3	3	3	3	3	3	3	3
		7,28	4,21	2,81	2,10	1,68	1,40	1,20	1,05	0,94	0,84	0,77	0,70
		5	5	5	5	5	5	5	5	5	5	5	5
		7,28	4,21	2,81	2,10	1,68	1,40	1,20	1,05	0,94	0,84	0,77	0,70
	II	3	3	3	3	3	3	3	3	3	3	3	3
		5,94	4,21	2,81	2,11	1,68	1,40	1,20	1,05	0,94	0,84	0,77	0,70
		5	5	5	5	5	5	5	5	5	5	5	5
		5,94	4,21	2,81	2,11	1,68	1,40	1,20	1,05	0,94	0,84	0,77	0,70
	III	3	3	3	3	3	3	3	3	3	3	3	3
		2,79	2,50	2,33	2,10	1,68	1,40	1,20	1,05	0,94	0,84	0,77	0,70
		5	5	5	5	5	5	5	5	5	5	5	5
		2,79	2,50	2,33	2,10	1,68	1,40	1,20	1,05	0,94	0,84	0,77	0,70

Permissible spans for ROMA wall elements FPeco 80 LL/ML 0.6/0.5 or FVeco 80 ML/LL 0.6/0.5



The following spans have been verified in accordance with the general building authority approval Z-10.49-836 of June 10. 2021 as well as based on EN 14509, Annex E, particularly using table E.6 and E.8. The most adverse loading condition combination consisting of wind and temperature has been verified in accordance with EN 14509, Annex E. The application notes (see page 2) must be observed.

Table W.4: Wind pressure

Structural system	Color group	Characteristic wind pressure in kN/m ²											
		0,25	0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00
1- span	I,II,III	48	122	122	122	122	122	122	122	122	122	122	122
		8,84	5,66	3,77	2,83	2,26	1,89	1,62	1,41	1,26	1,13	1,03	0,94
2- span	I,II	40	55	61	61	61	61	61	61	61	61	61	61
		6,52	5,1	3,77	2,83	2,26	1,89	1,62	1,41	1,26	1,13	1,03	0,94
	70	110	122	122	122	122	122	122	122	122	122	122	
	III	40	40	48	61	61	61	61	61	61	61	61	61
		2,94	2,94	2,94	2,83	2,26	1,89	1,62	1,41	1,26	1,13	1,03	0,94
		60	63	95	122	122	122	122	122	122	122	122	122
3- span	I	47	61	61	61	61	61	61	61	61	61	61	61
		8,77	5,66	3,77	2,83	2,26	1,88	1,62	1,42	1,26	1,13	1,03	0,94
	95	122	122	122	122	122	122	122	122	122	122	122	
	II	47	61	61	61	61	61	61	61	61	61	61	61
		8,77	5,66	3,77	2,83	2,26	1,88	1,62	1,42	1,26	1,13	1,03	0,94
			95	122	122	122	122	122	122	122	122	122	122
III	40	40	54	61	61	61	61	61	61	61	61	61	
	3,34	3,34	3,34	2,83	2,26	1,89	1,62	1,42	1,26	1,13	1,03	0,94	
		60	72	108	122	122	122	122	122	122	122	122	

Table W.5: Wind uplift pressure

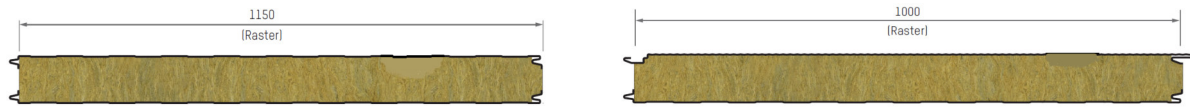
(see Comments no. 8)

Structural system	Color group	Wind uplift pressure kN/m ²											
		-0,25	-0,50	-0,75	-1,00	-1,25	-1,50	-1,75	-2,00	-2,25	-2,50	-2,75	-3,00
1- span	I,II,III	8,26	5,20	3,77	2,83	2,26	1,89	1,62	1,41	1,26	1,13	1,03	0,94
2- span	I	6,79	5,20	3,77	2,83	2,26	1,89	1,62	1,41	1,26	1,13	1,03	0,94
	II	4,61	3,92	3,56	2,83	2,26	1,89	1,62	1,41	1,26	1,13	1,03	0,94
	III	2,77	2,65	2,56	2,48	2,26	1,89	1,62	1,41	1,26	1,13	1,03	0,94
3- span	I	8,26	5,65	3,77	2,83	2,26	1,88	1,62	1,42	1,26	1,13	1,03	0,94
	II	6,36	4,77	3,77	2,83	2,26	1,88	1,62	1,42	1,26	1,13	1,03	0,94
	III	2,87	2,65	2,50	2,38	2,26	1,88	1,62	1,42	1,26	1,13	1,03	0,94

Table W.6: Characteristic wind uplift for screws in kN/m², direct fastening with 3 or 5 screws per support (see Comments no. 9)

Structural system	Color group	Characteristic wind uplift for screws in kN/m ²												
		-0,25	-0,50	-0,75	-1,00	-1,25	-1,50	-1,75	-2,00	-2,25	-2,50	-2,75	-3,00	
1- span	I,II,III	3	3	3	3	3	3	3	3	3	3	3	3	
		8,26	5,66	3,77	2,83	2,26	1,89	1,62	1,42	1,26	1,13	1,03	0,94	
		5	5	5	5	5	5	5	5	5	5	5	5	
2- span	I	3	3	3	3	3	3	3	3	3	3	3	3	
		6,79	4,92	3,21	2,41	1,96	1,66	1,46	1,30	1,18	1,08	0,99	0,92	
		5	5	5	5	5	5	5	5	5	5	5	5	
	II	3	3	3	3	3	3	3	3	3	3	3	3	
		6,79	5,20	3,77	2,83	2,26	1,89	1,62	1,41	1,26	1,13	1,03	0,94	
		5	5	5	5	5	5	5	5	5	5	5	5	
	III	3	3	3	3	3	3	3	3	3	3	3	3	
		4,61	3,92	2,97	2,22	1,81	1,54	1,36	1,22	1,11	1,02	0,94	0,88	
		5	5	5	5	5	5	5	5	5	5	5	5	
	3- span	I	3	3	3	3	3	3	3	3	3	3	3	3
			8,26	5,65	3,77	2,83	2,26	1,88	1,62	1,42	1,26	1,13	1,03	0,94
			5	5	5	5	5	5	5	5	5	5	5	5
II		3	3	3	3	3	3	3	3	3	3	3	3	
		8,26	5,65	3,77	2,83	2,26	1,88	1,62	1,42	1,26	1,13	1,03	0,94	
		5	5	5	5	5	5	5	5	5	5	5	5	
III		3	3	3	3	3	3	3	3	3	3	3	3	
		6,36	4,77	3,77	2,80	2,20	1,82	1,56	1,36	1,22	1,10	1,01	0,93	
		5	5	5	5	5	5	5	5	5	5	5	5	
III		3	3	3	3	3	3	3	3	3	3	3	3	
		6,36	4,77	3,77	2,83	2,26	1,88	1,62	1,42	1,26	1,13	1,03	0,94	
		5	5	5	5	5	5	5	5	5	5	5	5	
III	3	3	3	3	3	3	3	3	3	3	3	3		
	2,87	2,65	2,50	2,38	2,06	1,69	1,44	1,26	1,13	1,02	0,94	0,87		
	5	5	5	5	5	5	5	5	5	5	5	5		
III	3	3	3	3	3	3	3	3	3	3	3	3		
	2,87	2,65	2,50	2,38	2,26	1,88	1,62	1,42	1,26	1,13	1,03	0,94		
	5	5	5	5	5	5	5	5	5	5	5	5		

Permissible spans for ROMA wall elements FPeco 100 LL/ML 0.6/0.5 or FVeco 100 ML/LL 0.6/0.5



The following spans have been verified in accordance with the general building authority approval Z-10.49-836 of June 10. 2021 as well as based on EN 14509, Annex E, particularly using table E.6 and E.8. The most adverse loading condition combination consisting of wind and temperature has been verified in accordance with EN 14509, Annex E. The application notes (see page 2) must be observed.

Table W.7: Wind pressure

Structural system	Color group	Characteristic wind pressure in kN/m ²											
		0,25	0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00
1- span	I,II,III	52	145	149	149	149	149	149	149	149	149	149	149
		9,70	6,86	4,60	3,45	2,76	2,30	1,97	1,72	1,53	1,38	1,26	1,15
2- span	I,II	40	58	75	75	74	74	75	75	75	74	74	75
		6,79	5,4	4,6	3,45	2,76	2,3	1,97	1,72	1,53	1,38	1,25	1,15
	73	117	149	149	149	149	149	149	149	149	149	149	
	III	40	40	50	66	74	74	75	75	75	74	74	75
		3,07	3,07	3,07	3,07	2,76	2,30	1,97	1,72	1,53	1,38	1,25	1,15
		60	66	100	133	149	149	149	149	149	149	149	149
3- span	I	50	73	74	75	74	75	74	75	75	74	74	75
		9,23	6,72	4,60	3,45	2,76	2,30	1,97	1,72	1,53	1,38	1,25	1,15
	100	145	149	149	149	149	149	149	149	149	149	149	
	II	50	73	75	75	74	75	74	75	75	74	74	75
		9,23	6,72	4,60	3,45	2,76	2,30	1,97	1,72	1,53	1,38	1,25	1,15
			100	145	149	149	149	149	149	149	149	149	149
III	40	40	52	69	75	75	74	75	75	75	74	75	
	3,18	3,18	3,18	3,18	2,76	2,30	1,97	1,72	1,53	1,38	1,25	1,15	
		60	69	103	138	149	149	149	149	149	149	149	

Table W.8: Wind uplift pressure

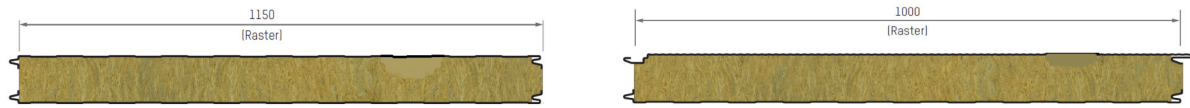
(see Comments no. 8)

Structural system	Color group	Wind uplift pressure kN/m ²											
		-0,25	-0,50	-0,75	-1,00	-1,25	-1,50	-1,75	-2,00	-2,25	-2,50	-2,75	-3,00
1- span	I,II,III	9,07	5,55	4,60	3,45	2,76	2,30	1,97	1,72	1,53	1,38	1,25	1,15
2- span	I	7,17	5,55	4,60	3,45	2,76	2,30	1,97	1,72	1,53	1,38	1,25	1,15
	II	4,77	4,14	3,79	3,45	2,76	2,30	1,97	1,72	1,53	1,38	1,25	1,15
	III	2,93	2,82	2,73	2,66	2,60	2,30	1,97	1,72	1,53	1,38	1,25	1,15
3- span	I	9,07	6,41	4,60	3,45	2,76	2,30	1,97	1,72	1,53	1,38	1,25	1,15
	II	6,50	4,95	4,27	3,45	2,76	2,30	1,97	1,72	1,53	1,38	1,25	1,15
	III	2,89	2,71	2,59	2,49	2,41	2,30	1,97	1,72	1,53	1,38	1,25	1,15

Table W.9: Characteristic wind uplift for screws in kN/m², direct fastening with 3 or 5 screws per support (see Comments no. 9)

Structural system	Color group	Characteristic wind uplift for screws in kN/m ²												
		-0,25	-0,50	-0,75	-1,00	-1,25	-1,50	-1,75	-2,00	-2,25	-2,50	-2,75	-3,00	
1- span	I,II,III	3	3	3	3	3	3	3	3	3	3	3	3	
		9,07	6,41	4,60	3,45	2,76	2,30	1,97	1,72	1,54	1,38	1,26	1,15	
		5	5	5	5	5	5	5	5	5	5	5	5	
2- span	I	3	3	3	3	3	3	3	3	3	3	3	3	
		7,17	4,77	3,12	2,36	1,93	1,65	1,45	1,29	1,17	1,08	0,99	0,92	
		5	5	5	5	5	5	5	5	5	5	5	5	
	II	7,17	5,55	4,60	3,45	2,76	2,30	1,97	1,72	1,53	1,38	1,25	1,15	
		3	3	3	3	3	3	3	3	3	3	3	3	
		4,77	4,14	2,84	2,15	1,77	1,52	1,34	1,21	1,10	1,01	0,94	0,88	
	III	5	5	5	5	5	5	5	5	5	5	5	5	
		4,77	4,14	3,79	3,45	2,76	2,30	1,97	1,72	1,53	1,38	1,25	1,15	
		3	3	3	3	3	3	3	3	3	3	3	3	
	3- span	I	2,93	2,82	2,16	1,73	1,50	1,35	1,20	1,09	1,00	0,93	0,86	0,81
			5	5	5	5	5	5	5	5	5	5	5	5
			2,93	2,82	2,73	2,66	2,60	2,30	1,97	1,72	1,53	1,38	1,25	1,15
II		3	3	3	3	3	3	3	3	3	3	3	3	
		9,07	5,93	3,86	2,85	2,25	1,87	1,61	1,41	1,26	1,14	1,04	0,96	
		5	5	5	5	5	5	5	5	5	5	5	5	
III		9,07	6,41	4,60	3,45	2,76	2,30	1,97	1,72	1,53	1,38	1,25	1,15	
		3	3	3	3	3	3	3	3	3	3	3	3	
		6,50	4,95	3,73	2,72	2,14	1,77	1,52	1,34	1,19	1,08	0,99	0,92	
II		5	5	5	5	5	5	5	5	5	5	5	5	
		6,50	4,95	4,27	3,45	2,76	2,30	1,97	1,72	1,53	1,38	1,25	1,15	
		3	3	3	3	3	3	3	3	3	3	3	3	
III	2,89	2,71	2,59	2,49	1,96	1,62	1,39	1,22	1,10	1,00	0,92	0,86		
	5	5	5	5	5	5	5	5	5	5	5	5		
	2,89	2,71	2,59	2,49	2,41	2,30	1,97	1,72	1,53	1,38	1,25	1,15		

Permissible spans for ROMA wall elements FPeco 120 LL/ML 0.6/0.5 or FVeco 120 ML/LL 0.6/0.5



The following spans have been verified in accordance with the general building authority approval Z-10.49-836 of June 10. 2021 as well as based on EN 14509. Annex E. particularly using table E.6 and E.8. The most adverse loading condition combination consisting of wind and temperature has been verified in accordance with EN 14509. Annex E. The application notes (see page 2) must be observed.

Table W.10: Wind pressure

Structural system	Color group	Characteristic wind pressure in kN/m ²											
		0,25	0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00
1- span	I,II,III	56	149	179	179	179	179	179	179	179	179	179	179
		10,42	7,37	5,54	4,15	3,32	2,77	2,37	2,08	1,85	1,66	1,51	1,38
2- span	I,II	40	60	80	90	90	90	90	90	90	90	90	90
		6,79	5,57	4,95	4,15	3,32	2,77	2,37	2,08	1,84	1,66	1,51	1,38
	73	120	160	179	179	179	179	179	179	179	179	179	
	40	40	51	68	85	90	90	90	90	90	90	90	
III	3,16	3,16	3,16	3,16	3,16	2,77	2,37	2,08	1,84	1,66	1,51	1,38	
	60	68	102	136	170	179	179	179	179	179	179	179	
3- span	I	51	75	90	90	90	90	90	90	90	90	90	90
		9,44	6,92	5,54	4,15	3,32	2,77	2,37	2,08	1,84	1,66	1,51	1,38
	102	149	179	179	179	179	179	179	179	179	179	179	
	II	51	75	90	90	90	90	90	90	90	90	90	90
		9,44	6,91	5,53	4,15	3,32	2,77	2,37	2,08	1,84	1,66	1,51	1,38
	102	149	179	179	179	179	179	179	179	179	179	179	
III	40	40	50	66	83	90	90	90	90	90	90	90	
	3,06	3,06	3,06	3,06	3,06	2,77	2,37	2,08	1,84	1,66	1,51	1,38	
60	66	99	132	165	179	179	179	179	179	179	179		

Table W.11: Wind uplift pressure

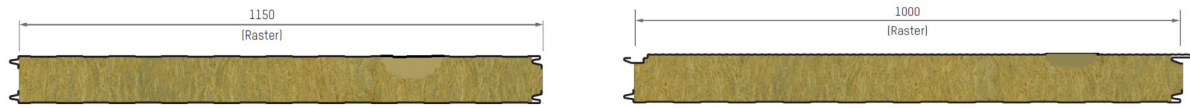
(see Comments no. 8)

Structural system	Color group	Wind uplift pressure kN/m ²											
		-0,25	-0,50	-0,75	-1,00	-1,25	-1,50	-1,75	-2,00	-2,25	-2,50	-2,75	-3,00
1- span	I,II,III	9,73	5,78	5,06	4,15	3,32	2,77	2,37	2,08	1,84	1,66	1,51	1,38
2- span	I	7,37	5,78	5,06	4,15	3,32	2,77	2,37	2,08	1,84	1,66	1,51	1,38
	II	4,83	4,27	3,95	3,73	3,32	2,77	2,37	2,08	1,84	1,66	1,51	1,38
	III	3,03	2,94	2,86	2,79	2,73	2,68	2,37	2,08	1,84	1,66	1,51	1,38
3- span	I	9,58	6,88	5,54	4,15	3,32	2,77	2,37	2,08	1,84	1,66	1,51	1,38
	II	6,43	5,00	4,36	3,97	3,32	2,77	2,37	2,08	1,84	1,66	1,51	1,38
	III	2,87	2,74	2,63	2,55	2,48	2,42	2,37	2,08	1,84	1,66	1,51	1,38

Table W.12: Characteristic wind uplift for screws in kN/m², direct fastening with 3 or 5 screws per support (see Comments no. 9)

Structural system	Color group	Characteristic wind uplift for screws in kN/m ²												
		-0,25	-0,50	-0,75	-1,00	-1,25	-1,50	-1,75	-2,00	-2,25	-2,50	-2,75	-3,00	
1-span	I,II,III	3	3	3	3	3	3	3	3	3	3	3	3	
		9,73	6,88	5,54	4,15	3,32	2,77	2,37	2,08	1,85	1,66	1,51	1,38	
		5	5	5	5	5	5	5	5	5	5	5	5	
2-span	I	3	3	3	3	3	3	3	3	3	3	3	3	
		7,37	4,63	3,04	2,32	1,90	1,63	1,44	1,29	1,17	1,07	0,99	0,92	
		5	5	5	5	5	5	5	5	5	5	5	5	
	II	3	3	3	3	3	3	3	3	3	3	3	3	
		4,83	4,20	2,72	2,10	1,74	1,50	1,33	1,20	1,10	1,01	0,94	0,87	
		5	5	5	5	5	5	5	5	5	5	5	5	
	III	3	3	3	3	3	3	3	3	3	3	3	3	
		4,83	4,27	3,95	3,73	3,22	2,70	2,35	2,08	1,84	1,66	1,51	1,38	
		5	5	5	5	5	5	5	5	5	5	5	5	
	3-span	I	3	3	3	3	3	3	3	3	3	3	3	3
			9,58	5,86	3,80	2,80	2,22	1,84	1,58	1,39	1,25	1,13	1,04	0,96
			5	5	5	5	5	5	5	5	5	5	5	5
II		3	3	3	3	3	3	3	3	3	3	3	3	
		9,58	6,88	5,54	4,15	3,32	2,77	2,37	2,08	1,84	1,66	1,51	1,38	
		5	5	5	5	5	5	5	5	5	5	5	5	
III		3	3	3	3	3	3	3	3	3	3	3	3	
		6,43	5,00	3,64	2,65	2,09	1,73	1,49	1,31	1,18	1,07	0,98	0,91	
		5	5	5	5	5	5	5	5	5	5	5	5	
III		3	3	3	3	3	3	3	3	3	3	3	3	
		6,43	5,00	4,36	3,97	3,32	2,77	2,37	2,08	1,84	1,66	1,51	1,38	
		5	5	5	5	5	5	5	5	5	5	5	5	
III	3	3	3	3	3	3	3	3	3	3	3	3		
	2,87	2,74	2,63	2,41	1,88	1,57	1,35	1,20	1,08	0,99	0,91	0,85		
	5	5	5	5	5	5	5	5	5	5	5	5		
III	3	3	3	3	3	3	3	3	3	3	3	3		
	2,87	2,74	2,63	2,55	2,48	2,42	2,37	2,08	1,84	1,66	1,51	1,38		
	5	5	5	5	5	5	5	5	5	5	5	5		

Permissible spans for ROMA wall elements FPeco 140 LL/ML 0.6/0.5 or FVeco 140 ML/LL 0.6/0.5



The following spans have been verified in accordance with the general building authority approval Z-10.49-836 of June 10. 2021 as well as based on EN 14509. Annex E. particularly using table E.6 and E.8. The most adverse loading condition combination consisting of wind and temperature has been verified in accordance with EN 14509. Annex E. The application notes (see page 2) must be observed.

Table W.13: Wind pressure

Structural system	Color group	Characteristic wind pressure in kN/m ²											
		0,25	0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00
1- span	I,II,III	59	150	191	203	203	204	203	203	203	203	204	204
		11,02	7,79	6,28	4,71	3,77	3,14	2,69	2,36	2,09	1,88	1,71	1,57
2- span	I,II	40	61	82	101	102	102	102	102	102	102	102	102
		6,09	5,64	5,06	4,69	3,77	3,14	2,69	2,36	2,09	1,88	1,71	1,57
	66	122	164	203	203	203	203	203	204	203	204	204	
	40	40	52	69	87	102	102	102	102	102	102	102	
III	3,20	3,20	3,20	3,20	3,20	3,14	2,69	2,36	2,09	1,88	1,71	1,57	
	60	69	104	138	173	204	203	203	204	203	204	204	
3- span	I	51	75	95	102	102	102	102	102	102	102	102	102
		9,42	6,96	5,89	4,71	3,77	3,14	2,69	2,36	2,09	1,88	1,71	1,57
	102	150	191	203	203	204	203	203	203	203	203	204	204
	II	51	75	95	102	102	102	102	102	102	102	102	102
		9,42	6,96	5,89	4,71	3,77	3,14	2,69	2,36	2,09	1,88	1,71	1,57
	102	150	191	204	203	204	203	203	203	203	203	204	204
III	40	41	48	64	80	96	102	102	102	102	102	102	
	2,96	2,96	2,96	2,96	2,96	2,96	2,69	2,36	2,09	1,88	1,71	1,57	
60	64	96	128	160	192	204	203	204	203	204	203	204	

Table W.14: Wind uplift pressure

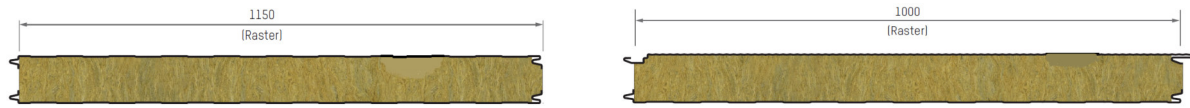
(see Comments no. 8)

Structural system	Color group	Wind uplift pressure kN/m ²											
		-0,25	-0,50	-0,75	-1,00	-1,25	-1,50	-1,75	-2,00	-2,25	-2,50	-2,75	-3,00
1- span	I,II,III	10,28	5,91	5,22	4,71	3,77	3,14	2,69	2,36	2,09	1,88	1,71	1,57
2- span	I	7,42	5,91	5,22	4,71	3,77	3,14	2,69	2,36	2,09	1,88	1,71	1,57
	II	4,82	4,34	4,04	3,84	3,68	3,14	2,69	2,36	2,09	1,88	1,71	1,57
	III	3,10	3,01	2,94	2,88	2,83	2,78	2,69	2,36	2,09	1,88	1,71	1,57
3- span	I	9,71	7,11	5,94	4,71	3,77	3,14	2,69	2,36	2,09	1,88	1,71	1,57
	II	6,17	4,94	4,36	4,00	3,75	3,14	2,69	2,36	2,09	1,88	1,71	1,57
	III	2,82	2,72	2,64	2,57	2,52	2,46	2,42	2,36	2,09	1,88	1,71	1,57

Table W.15: Characteristic wind uplift for screws in kN/m², direct fastening with 3 or 5 screws per support (see Comments no. 9)

Structural system	Color group	Characteristic wind uplift for screws in kN/m ²												
		-0,25	-0,50	-0,75	-1,00	-1,25	-1,50	-1,75	-2,00	-2,25	-2,50	-2,75	-3,00	
1- span	I,II,III	3	3	3	3	3	3	3	3	3	3	3	3	
		10,28	7,27	5,94	4,71	3,77	3,14	2,69	2,36	2,09	1,88	1,71	1,57	
		5	5	5	5	5	5	5	5	5	5	5	5	
2- span	I	3	3	3	3	3	3	3	3	3	3	3	3	
		7,42	4,50	2,97	2,28	1,89	1,62	1,43	1,29	1,17	1,07	0,99	0,92	
		5	5	5	5	5	5	5	5	5	5	5	5	
	II	7,42	5,91	5,22	4,18	3,36	2,83	2,46	2,19	1,97	1,80	1,66	1,54	
		3	3	3	3	3	3	3	3	3	3	3	3	
		4,82	4,00	2,64	2,05	1,72	1,49	1,32	1,20	1,09	1,01	0,94	0,87	
	III	5	5	5	5	5	5	5	5	5	5	5	5	
		4,82	4,34	4,04	3,84	3,17	2,67	2,32	2,07	1,87	1,71	1,58	1,47	
		3	3	3	3	3	3	3	3	3	3	3	3	
	3- span	I	3,10	2,10	1,72	1,52	1,37	1,26	1,18	1,08	0,99	0,92	0,86	0,80
			5	5	5	5	5	5	5	5	5	5	5	5
			3,10	3,01	2,94	2,88	2,83	2,42	2,12	1,90	1,72	1,58	1,47	1,37
II		3	3	3	3	3	3	3	3	3	3	3	3	
		9,71	5,79	3,74	2,75	2,18	1,82	1,56	1,38	1,24	1,12	1,03	0,96	
		5	5	5	5	5	5	5	5	5	5	5	5	
III		9,71	7,11	5,94	4,71	3,77	3,14	2,69	2,36	2,09	1,88	1,71	1,57	
		3	3	3	3	3	3	3	3	3	3	3	3	
		6,17	4,94	3,55	2,58	2,04	1,70	1,47	1,30	1,17	1,06	0,98	0,91	
II		5	5	5	5	5	5	5	5	5	5	5	5	
		6,17	4,94	4,36	4,00	3,75	3,14	2,69	2,36	2,09	1,88	1,71	1,57	
		3	3	3	3	3	3	3	3	3	3	3	3	
III	2,82	2,72	2,64	2,31	1,82	1,52	1,32	1,18	1,06	0,98	0,90	0,84		
	5	5	5	5	5	5	5	5	5	5	5	5		
	2,82	2,72	2,64	2,57	2,52	2,46	2,42	2,23	1,98	1,78	1,62	1,50		

Permissible spans for ROMA wall elements FPeco 150 LL/ML 0.6/0.5 or FVeco 150 ML/LL 0.6/0.5



The following spans have been verified in accordance with the general building authority approval Z-10.49-836 of June 10. 2021 as well as based on EN 14509. Annex E. particularly using table E.6 and E.8. The most adverse loading condition combination consisting of wind and temperature has been verified in accordance with EN 14509. Annex E. The application notes (see page 2) must be observed.

Table W.16: Wind pressure

Structural system	Color group	Characteristic wind pressure in kN/m ²											
		0,25	0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00
1- span	I,II,III	61	151	193	218	218	218	218	218	218	218	218	218
		11,31	8,00	6,53	5,05	4,04	3,37	2,89	2,52	2,24	2,02	1,84	1,68
2- span	I,II	40	62	83	103	109	109	109	109	109	109	109	109
		5,94	5,7	5,13	4,77	4,04	3,37	2,89	2,52	2,24	2,02	1,84	1,68
	III	64	123	166	206	218	218	218	218	218	218	218	218
		40	41	53	70	88	105	109	109	109	109	109	109
3- span	I	51	76	96	109	109	109	109	109	109	109	109	109
		9,44	7,01	5,94	5,05	4,04	3,37	2,89	2,52	2,24	2,02	1,84	1,68
	II	102	151	193	218	218	218	218	218	218	218	218	218
		51	76	96	109	109	109	109	109	109	109	109	109
	III	9,44	7,01	5,94	5,05	4,04	3,37	2,89	2,52	2,24	2,02	1,84	1,68
		102	151	193	218	218	218	218	218	218	218	218	218
III	40	43	48	64	79	95	109	109	109	109	109	109	
	2,94	2,94	2,94	2,94	2,94	2,94	2,88	2,52	2,24	2,02	1,84	1,68	
		60	64	95	127	159	191	218	218	218	218	218	

Table W.17: Wind uplift pressure

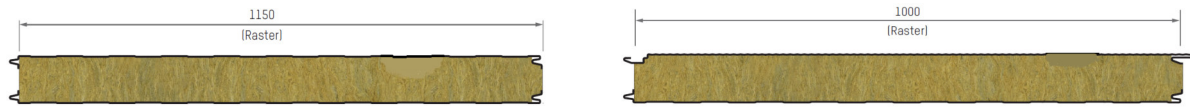
(see Comments no. 8)

Structural system	Color group	Wind uplift pressure kN/m ²											
		-0,25	-0,50	-0,75	-1,00	-1,25	-1,50	-1,75	-2,00	-2,25	-2,50	-2,75	-3,00
1- span	I,II,III	10,55	5,99	5,30	4,87	4,04	3,37	2,89	2,52	2,24	2,02	1,84	1,68
2- span	I	7,46	5,99	5,30	4,87	4,04	3,37	2,89	2,52	2,24	2,02	1,84	1,68
	II	4,84	4,39	4,10	3,90	3,74	3,37	2,89	2,52	2,24	2,02	1,84	1,68
	III	3,14	3,06	2,99	2,93	2,88	2,83	2,79	2,52	2,24	2,02	1,84	1,68
3- span	I	9,79	7,18	6,05	5,05	4,04	3,37	2,88	2,52	2,24	2,02	1,84	1,68
	II	6,08	4,92	4,37	4,03	3,79	3,37	2,89	2,52	2,24	2,02	1,84	1,68
	III	2,83	2,74	2,66	2,60	2,54	2,49	2,45	2,41	2,24	2,02	1,84	1,68

Table W.18: Characteristic wind uplift for screws in kN/m², direct fastening with 3 or 5 screws per support (see Comments no. 9)

Structural system	Color group	Characteristic wind uplift for screws in kN/m ²												
		-0,25	-0,50	-0,75	-1,00	-1,25	-1,50	-1,75	-2,00	-2,25	-2,50	-2,75	-3,00	
1- span	I,II,III	3	3	3	3	3	3	3	3	3	3	3	3	3
		10,55	7,46	6,09	5,05	4,04	3,37	2,89	2,53	2,24	2,02	1,84	1,68	
		5	5	5	5	5	5	5	5	5	5	5	5	5
		10,55	7,46	6,09	5,05	4,04	3,37	2,89	2,53	2,24	2,02	1,84	1,68	
2- span	I	3	3	3	3	3	3	3	3	3	3	3	3	3
		7,46	4,43	2,94	2,27	1,88	1,62	1,43	1,28	1,17	1,07	0,99	0,92	
		5	5	5	5	5	5	5	5	5	5	5	5	5
			7,46	5,99	5,30	4,16	3,35	2,82	2,46	2,18	1,97	1,80	1,66	1,54
	II	3	3	3	3	3	3	3	3	3	3	3	3	3
		4,84	3,90	2,60	2,03	1,70	1,48	1,32	1,19	1,09	1,01	0,93	0,87	
		5	5	5	5	5	5	5	5	5	5	5	5	5
			4,84	4,39	4,10	3,90	3,14	2,66	2,31	2,06	1,87	1,71	1,58	1,47
	III	3	3	3	3	3	3	3	3	3	3	3	3	3
		3,14	1,99	1,68	1,49	1,36	1,25	1,17	1,07	0,99	0,92	0,86	0,80	
		5	5	5	5	5	5	5	5	5	5	5	5	5
			3,14	3,06	2,99	2,93	2,83	2,40	2,11	1,89	1,72	1,58	1,46	1,37
3- span	I	3	3	3	3	3	3	3	3	3	3	3	3	3
		9,79	5,75	3,71	2,72	2,16	1,81	1,56	1,38	1,23	1,12	1,03	0,95	
		5	5	5	5	5	5	5	5	5	5	5	5	5
			9,79	7,18	6,05	4,96	3,93	3,26	2,78	2,44	2,16	1,95	1,78	1,64
	II	3	3	3	3	3	3	3	3	3	3	3	3	3
		6,08	4,92	3,50	2,55	2,02	1,68	1,46	1,29	1,16	1,06	0,98	0,90	
		5	5	5	5	5	5	5	5	5	5	5	5	5
			6,08	4,92	4,37	4,03	3,79	3,16	2,69	2,35	2,08	1,88	1,71	1,58
	III	3	3	3	3	3	3	3	3	3	3	3	3	3
		2,83	2,74	2,66	2,26	1,79	1,50	1,31	1,17	1,06	0,97	0,90	0,84	
		5	5	5	5	5	5	5	5	5	5	5	5	5
			2,83	2,74	2,66	2,60	2,54	2,49	2,45	2,21	1,96	1,77	1,62	1,49

Permissible spans for ROMA wall elements FPeco 170 LL/ML 0.6/0.5 or FVeco 170 ML/LL 0.6/0.5



The following spans have been verified in accordance with the general building authority approval Z-10.49-836 of June 10. 2021 as well as based on EN 14509. Annex E. particularly using table E.6 and E.8. The most adverse loading condition combination consisting of wind and temperature has been verified in accordance with EN 14509. Annex E. The application notes (see page 2) must be observed.

Table W.19: Wind pressure

Structural system	Color group	Characteristic wind pressure in kN/m ²											
		0,25	0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00
1- span	I,II,III	64	152	195	233	248	248	248	248	248	248	248	248
		11,84	8,37	6,83	5,73	4,59	3,82	3,27	2,87	2,55	2,29	2,08	1,91
2- span	I,II	40	62	85	106	124	124	124	124	124	124	124	124
		5,71	5,71	5,25	4,89	4,59	3,82	3,27	2,86	2,55	2,29	2,08	1,91
	62	123	170	211	248	248	248	248	248	248	248	248	
	40	43	53	71	89	107	124	124	124	124	124	124	
III	3,30	3,30	3,30	3,30	3,30	3,30	3,27	2,86	2,55	2,29	2,08	1,91	
	62	75	107	143	178	214	248	248	248	248	248	248	
3- span	I	51	76	97	116	124	124	124	124	124	124	124	124
		9,39	7,03	6,01	5,39	4,59	3,82	3,28	2,86	2,55	2,29	2,08	1,91
	101	152	195	233	248	248	248	248	248	248	248	248	
	51	76	97	116	124	124	124	124	124	124	124	124	
	9,39	7,03	6,00	5,39	4,58	3,82	3,28	2,86	2,55	2,29	2,08	1,91	
	101	152	194	233	248	248	248	248	248	248	248	248	
III	43	47	51	63	79	95	110	124	124	124	124	124	
	2,92	2,92	2,92	2,92	2,92	2,92	2,92	2,86	2,55	2,29	2,08	1,91	
		60	63	95	126	158	189	221	248	248	248	248	

Table W.20: Wind uplift pressure

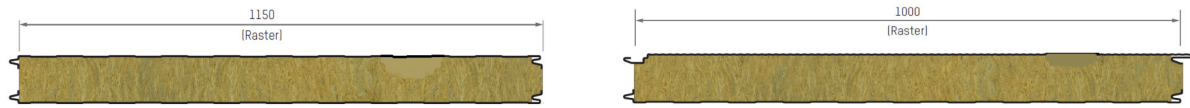
(see Comments no. 8)

Structural system	Color group	Wind uplift pressure kN/m ²											
		-0,25	-0,50	-0,75	-1,00	-1,25	-1,50	-1,75	-2,00	-2,25	-2,50	-2,75	-3,00
1- span	I,II,III	11,05	7,81	6,38	5,52	4,59	3,82	3,27	2,87	2,55	2,29	2,08	1,91
2- span	I	7,50	6,10	5,44	5,02	4,59	3,82	3,27	2,86	2,55	2,29	2,08	1,91
	II	4,86	4,46	4,20	4,00	3,85	3,73	3,27	2,86	2,55	2,29	2,08	1,91
	III	3,21	3,14	3,07	3,02	2,97	2,92	2,88	2,84	2,55	2,29	2,08	1,91
3- span	I	9,87	7,29	6,16	5,49	4,58	3,82	3,28	2,86	2,55	2,29	2,08	1,91
	II	5,85	4,87	4,38	4,06	3,84	3,66	3,28	2,86	2,55	2,29	2,08	1,91
	III	2,83	2,75	2,68	2,63	2,58	2,54	2,50	2,46	2,43	2,29	2,08	1,91

Table W.21: Characteristic wind uplift for screws in kN/m², direct fastening with 3 or 5 screws per support (see Comments no. 9)

Structural system	Color group	Characteristic wind uplift for screws in kN/m ²												
		-0,25	-0,50	-0,75	-1,00	-1,25	-1,50	-1,75	-2,00	-2,25	-2,50	-2,75	-3,00	
1- span	I,II,III	3	3	3	3	3	3	3	3	3	3	3	3	
		11,05	7,81	6,38	5,52	4,59	3,82	3,27	2,87	2,55	2,29	2,08	1,91	
		5	5	5	5	5	5	5	5	5	5	5	5	
		11,05	7,81	6,38	5,52	4,59	3,82	3,27	2,87	2,55	2,29	2,08	1,91	
2- span	I	3	3	3	3	3	3	3	3	3	3	3	3	
		7,50	4,31	2,88	2,24	1,87	1,61	1,43	1,28	1,17	1,07	0,99	0,92	
		5	5	5	5	5	5	5	5	5	5	5	5	
			7,50	6,10	5,44	4,12	3,32	2,81	2,45	2,18	1,97	1,80	1,66	1,54
	II	3	3	3	3	3	3	3	3	3	3	3	3	
		4,86	3,73	2,45	2,00	1,69	1,47	1,31	1,19	1,09	1,00	0,93	0,87	
		5	5	5	5	5	5	5	5	5	5	5	5	
			4,86	4,46	4,20	3,85	3,10	2,63	2,30	2,05	1,86	1,70	1,57	1,47
	III	3	3	3	3	3	3	3	3	3	3	3	3	
		2,39	1,85	1,60	1,44	1,32	1,23	1,15	1,07	0,98	0,92	0,86	0,80	
		5	5	5	5	5	5	5	5	5	5	5	5	
			3,21	3,14	3,07	3,02	2,78	2,37	2,08	1,87	1,70	1,57	1,46	1,36
3- span	I	3	3	3	3	3	3	3	3	3	3	3	3	
		9,87	5,67	3,65	2,68	2,13	1,79	1,54	1,36	1,23	1,12	1,03	0,95	
		5	5	5	5	5	5	5	5	5	5	5	5	
			9,87	7,29	6,16	4,92	3,90	3,23	2,76	2,42	2,15	1,94	1,77	1,63
	II	3	3	3	3	3	3	3	3	3	3	3	3	
		5,85	4,87	3,42	2,49	1,98	1,66	1,44	1,28	1,15	1,05	0,97	0,90	
		5	5	5	5	5	5	5	5	5	5	5	5	
			5,85	4,87	4,38	4,06	3,78	3,12	2,66	2,32	2,07	1,86	1,70	1,57
	III	3	3	3	3	3	3	3	3	3	3	3	3	
		2,83	2,75	2,68	2,18	1,74	1,47	1,29	1,15	1,05	0,96	0,89	0,83	
		5	5	5	5	5	5	5	5	5	5	5	5	
			2,83	2,75	2,68	2,63	2,58	2,54	2,50	2,18	1,93	1,75	1,60	1,47

Permissible spans for ROMA wall elements FPeco 200 LL/ML 0.6/0.5 or FVeco 200 ML/LL 0.6/0.5



The following spans have been verified in accordance with the general building authority approval Z-10.49-836 of June 10. 2021 as well as based on EN 14509. Annex E. particularly using table E.6 and E.8. The most adverse loading condition combination consisting of wind and temperature has been verified in accordance with EN 14509. Annex E. The application notes (see page 2) must be observed.

Table W.22: Wind pressure

Structural system	Color group	Characteristic wind pressure in kN/m ²											
		0,25	0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00
1- span	I,II,III	67	149	194	234	271	283	283	283	283	283	283	283
		12,49	8,84	7,21	6,25	5,24	4,37	3,74	3,27	2,91	2,62	2,38	2,18
2- span	I,II	40	59	86	108	129	142	142	141	141	141	141	141
		5,42	5,42	5,33	5,01	4,77	4,37	3,74	3,27	2,91	2,62	2,38	2,18
	68	117	173	216	257	283	283	283	283	283	283	283	
	42	47	54	72	91	109	127	141	141	141	141	141	
III	3,35	3,35	3,35	3,35	3,35	3,35	3,36	3,27	2,91	2,62	2,38	2,18	
	67	80	109	145	181	217	254	283	283	283	283	283	
3- span	I	49	75	97	117	135	141	141	141	142	141	141	141
		9,04	6,92	5,98	5,41	5,02	4,36	3,74	3,27	2,91	2,62	2,38	2,18
	98	149	194	234	271	283	283	283	283	283	283	283	
	II	49	75	97	117	136	141	141	141	142	141	141	141
		9,04	6,92	5,98	5,41	5,02	4,37	3,74	3,27	2,91	2,62	2,38	2,18
	98	149	194	234	271	283	283	283	283	283	283	283	283
III		48	52	56	62	77	93	108	124	139	142	141	141
	2,87	2,87	2,87	2,87	2,87	2,87	2,87	2,87	2,87	2,87	2,62	2,38	2,18
60	62	93	124	155	186	217	248	279	283	283	283	283	

Table W.23: Wind uplift pressure

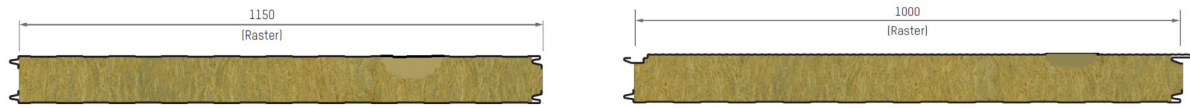
(see Comments no. 8)

Structural system	Color group	Wind uplift pressure kN/m ²											
		-0,25	-0,50	-0,75	-1,00	-1,25	-1,50	-1,75	-2,00	-2,25	-2,50	-2,75	-3,00
1- span	I,II,III	11,66	6,18	5,56	5,16	4,87	4,37	3,74	3,27	2,91	2,62	2,38	2,18
2- span	I	7,42	6,18	5,56	5,16	4,87	4,37	3,74	3,27	2,91	2,62	2,38	2,18
	II	4,83	4,50	4,28	4,10	3,96	3,85	3,74	3,27	2,91	2,62	2,38	2,18
	III	3,28	3,22	3,16	3,11	3,06	3,02	2,98	2,95	2,91	2,62	2,38	2,18
3- span	I	9,75	7,28	6,21	5,57	5,13	4,37	3,74	3,27	2,91	2,62	2,38	2,18
	II	5,41	4,70	4,30	4,04	3,84	3,69	3,56	3,27	2,91	2,62	2,38	2,18
	III	2,80	2,74	2,69	2,65	2,61	2,57	2,54	2,50	2,48	2,45	2,38	2,18

Table W.24: Characteristic wind uplift for screws in kN/m², direct fastening with 3 or 5 screws per support (see Comments no. 9)

Structural system	Color group	Characteristic wind uplift for screws in kN/m ²												
		-0,25	-0,50	-0,75	-1,00	-1,25	-1,50	-1,75	-2,00	-2,25	-2,50	-2,75	-3,00	
1- span	I,II,III	3	3	3	3	3	3	3	3	3	3	3	3	
		11,66	8,25	6,74	5,83	5,22	4,37	3,74	3,27	2,91	2,62	2,38	2,18	
		5	5	5	5	5	5	5	5	5	5	5	5	
		11,66	8,25	6,74	5,83	5,22	4,37	3,74	3,27	2,91	2,62	2,38	2,18	
2- span	I	3	3	3	3	3	3	3	3	3	3	3	3	
		7,42	4,14	2,82	2,21	1,85	1,60	1,42	1,28	1,17	1,07	0,99	0,92	
		5	5	5	5	5	5	5	5	5	5	5	5	
			7,42	6,18	5,56	5,16	4,87	4,37	3,74	3,27	2,91	2,62	2,38	2,18
	II	3	3	3	3	3	3	3	3	3	3	3	3	
		4,83	3,01	2,26	1,92	1,67	1,46	1,31	1,18	1,09	1,00	0,93	0,87	
		5	5	5	5	5	5	5	5	5	5	5	5	
			4,83	4,50	4,28	4,10	3,96	3,85	3,74	3,27	2,91	2,62	2,38	2,18
	III	3	3	3	3	3	3	3	3	3	3	3	3	
		2,04	1,73	1,54	1,40	1,29	1,21	1,13	1,06	0,98	0,91	0,85	0,80	
		5	5	5	5	5	5	5	5	5	5	5	5	
			3,28	3,22	3,16	3,11	3,06	3,02	2,98	2,95	2,91	2,62	2,38	2,18
3- span	I	3	3	3	3	3	3	3	3	3	3	3	3	
		9,75	5,57	3,56	2,62	2,10	1,76	1,53	1,35	1,22	1,11	1,02	0,95	
		5	5	5	5	5	5	5	5	5	5	5	5	
			9,75	7,28	6,21	5,57	5,13	4,37	3,74	3,27	2,91	2,62	2,38	2,18
	II	3	3	3	3	3	3	3	3	3	3	3	3	
		5,41	4,70	3,30	2,41	1,93	1,62	1,42	1,26	1,14	1,04	0,96	0,90	
		5	5	5	5	5	5	5	5	5	5	5	5	
			5,41	4,70	4,30	4,04	3,84	3,69	3,56	3,27	2,91	2,62	2,38	2,18
	III	3	3	3	3	3	3	3	3	3	3	3	3	
		2,80	2,74	2,69	2,08	1,68	1,43	1,26	1,14	1,04	0,95	0,88	0,83	
		5	5	5	5	5	5	5	5	5	5	5	5	
			2,80	2,74	2,69	2,65	2,61	2,57	2,54	2,50	2,48	2,45	2,38	2,18

Permissible spans for ROMA wall elements FPeco 240 LL/ML 0.6/0.5 or FVeco 240 ML/LL 0.6/0.5



The following spans have been verified in accordance with the general building authority approval Z-10.49-836 of June 10. 2021 as well as based on EN 14509. Annex E. particularly using table E.6 and E.8. The most adverse loading condition combination consisting of wind and temperature has been verified in accordance with EN 14509. Annex E. The application notes (see page 2) must be observed.

Table W.25: Wind pressure

Structural system	Color group	Characteristic wind pressure in kN/m ²											
		0,25	0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00
1- span	I,II,III	71	141	187	229	268	305	340	340	340	340	340	340
		13,16	9,31	7,60	6,58	5,89	5,25	4,50	3,93	3,50	3,15	2,86	2,62
2- span	I,II	40	55	83	109	131	152	170	170	170	170	170	170
		5,12	5,12	5,12	5,06	4,85	4,68	4,5	3,93	3,5	3,15	2,86	2,62
	74	111	166	219	262	303	340	340	340	340	340	340	
	46	41	55	73	91	110	128	146	164	170	170	170	
III	3,38	3,38	3,38	3,38	3,38	3,38	3,38	3,38	3,38	3,15	2,86	2,62	
	73	85	110	146	183	219	256	292	329	340	340	340	
3- span	I	44	71	93	114	134	152	170	170	170	170	170	170
		8,21	6,54	5,77	5,29	4,96	4,70	4,50	3,94	3,50	3,15	2,86	2,62
	89	141	187	229	268	305	340	340	340	340	340	340	
	II	40	63	94	114	134	152	170	170	170	170	170	170
		5,84	5,84	5,77	5,29	4,96	4,70	4,50	3,94	3,50	3,15	2,86	2,62
	63	126	187	229	268	305	340	340	340	340	340	340	
III	54	58	62	66	75	90	106	121	136	151	166	170	
	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,62	
60	60	90	121	151	181	211	241	271	302	332	340		

Table W.26: Wind uplift pressure

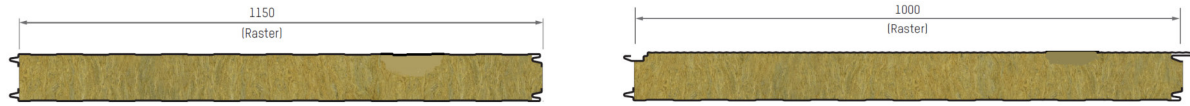
(see Comments no. 8)

Structural system	Color group	Wind uplift pressure kN/m ²											
		-0,25	-0,50	-0,75	-1,00	-1,25	-1,50	-1,75	-2,00	-2,25	-2,50	-2,75	-3,00
1- span	I,II,III	12,29	6,14	5,60	5,25	4,98	4,78	4,50	3,93	3,50	3,15	2,86	2,62
2- span	I	7,14	6,14	5,60	5,25	4,98	4,78	4,50	3,93	3,50	3,15	2,86	2,62
	II	4,74	4,49	4,31	4,16	4,04	3,94	3,85	3,77	3,50	3,15	2,86	2,62
	III	3,32	3,27	3,22	3,18	3,14	3,10	3,07	3,04	3,01	2,98	2,86	2,62
3- span	I	9,23	7,06	6,10	5,52	5,13	4,83	4,50	3,94	3,50	3,15	2,86	2,62
	II	4,84	4,41	4,14	3,94	3,78	3,66	3,55	3,46	3,38	3,15	2,86	2,62
	III	2,75	2,71	2,67	2,64	2,61	2,58	2,55	2,52	2,50	2,48	2,46	2,44

Table W.27: Characteristic wind uplift for screws in kN/m², direct fastening with 3 or 5 screws per support (see Comments no. 9)

Structural system	Color group	Characteristic wind uplift for screws in kN/m ²												
		-0,25	-0,50	-0,75	-1,00	-1,25	-1,50	-1,75	-2,00	-2,25	-2,50	-2,75	-3,00	
1- span	I,II,III	3	3	3	3	3	3	3	3	3	3	3	3	3
		12,29	8,69	7,10	6,15	5,50	4,61	3,95	3,46	3,07	2,76	2,51	2,30	
		5	5	5	5	5	5	5	5	5	5	5	5	5
		12,29	8,69	7,10	6,15	5,50	5,02	4,50	3,94	3,50	3,15	2,86	2,62	
2- span	I	3	3	3	3	3	3	3	3	3	3	3	3	
		7,14	3,96	2,75	2,18	1,83	1,60	1,42	1,28	1,16	1,07	0,99	0,92	
		5	5	5	5	5	5	5	5	5	5	5	5	
		7,14	6,14	5,29	3,99	3,24	2,76	2,42	2,16	1,96	1,79	1,66	1,54	
	II	3	3	3	3	3	3	3	3	3	3	3	3	
		4,74	2,60	2,12	1,84	1,65	1,45	1,30	1,18	1,08	1,00	0,93	0,87	
		5	5	5	5	5	5	5	5	5	5	5	5	
		4,74	4,49	4,31	3,66	2,99	2,56	2,25	2,02	1,84	1,69	1,57	1,46	
	III	3	3	3	3	3	3	3	3	3	3	3	3	
		1,86	1,64	1,48	1,36	1,27	1,19	1,12	1,06	0,98	0,91	0,85	0,80	
		5	5	5	5	5	5	5	5	5	5	5	5	
		3,32	3,27	3,22	3,12	2,63	2,28	2,02	1,83	1,68	1,55	1,44	1,35	
3- span	I	3	3	3	3	3	3	3	3	3	3	3	3	
		9,23	5,42	3,46	2,56	2,06	1,73	1,51	1,34	1,21	1,10	1,02	0,94	
		5	5	5	5	5	5	5	5	5	5	5	5	
		9,23	7,06	6,10	4,80	3,80	3,15	2,70	2,37	2,11	1,91	1,75	1,61	
	II	3	3	3	3	3	3	3	3	3	3	3	3	
		4,84	4,41	3,15	2,32	1,87	1,59	1,39	1,25	1,13	1,04	0,96	0,89	
		5	5	5	5	5	5	5	5	5	5	5	5	
		4,84	4,41	4,14	3,94	3,64	3,00	2,57	2,25	2,01	1,82	1,67	1,54	
	III	3	3	3	3	3	3	3	3	3	3	3	3	
		2,75	2,71	2,45	1,84	1,57	1,40	1,24	1,12	1,02	0,94	0,88	0,82	
		5	5	5	5	5	5	5	5	5	5	5	5	
		2,75	2,71	2,67	2,64	2,61	2,58	2,37	2,08	1,86	1,69	1,55	1,44	

Permissible spans for ROMA wall elements FP60 LL/ML 0.6/0.5 or FV60 ML/LL 0.6/0.5



The following spans have been verified in accordance with the general building authority approval Z-10.49-837 of June 10. 2021 as well as based on EN 14509. Annex E. particularly using table E.6 and E.8. The most adverse loading condition combination consisting of wind and temperature has been verified in accordance with EN 14509. Annex E. The application notes (see page 2) must be observed.

Table W.28: Wind pressure

Structural system	Color group	Characteristic wind pressure in kN/m ²											
		0,25	0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00
1- span	I,II,III	40	70	86	92	92	92	92	92	91	91	92	92
		9,40	6,64	5,42	4,32	3,46	2,88	2,47	2,16	1,92	1,73	1,57	1,44
2- span	I,II	40	40	42	46	46	46	46	46	46	46	46	46
		8,9	6,35	5,23	4,32	3,46	2,88	2,47	2,16	1,92	1,73	1,57	1,44
	60	67	83	92	92	92	91	92	92	92	92	92	
	III	40	40	42	46	46	46	46	46	46	46	46	46
		8,90	6,35	5,23	4,32	3,46	2,88	2,47	2,16	1,92	1,73	1,57	1,44
		60	67	83	92	92	92	92	91	91	92	92	92
3- span	I	40	40	43	46	46	46	46	46	46	46	46	46
		9,40	6,64	5,42	4,32	3,46	2,88	2,47	2,16	1,92	1,73	1,57	1,44
	60	70	86	92	92	92	92	92	92	91	91	92	92
	II	40	40	43	46	46	46	46	46	46	46	46	46
		9,40	6,64	5,42	4,32	3,46	2,88	2,47	2,16	1,92	1,73	1,57	1,44
			60	70	86	92	92	92	92	92	91	91	92
III	40	40	43	46	46	46	46	46	46	46	46	46	
	9,40	6,64	5,42	4,32	3,46	2,88	2,47	2,16	1,92	1,73	1,57	1,44	
		60	70	86	92	92	92	92	91	91	92	92	92

Table W.29: Wind uplift pressure

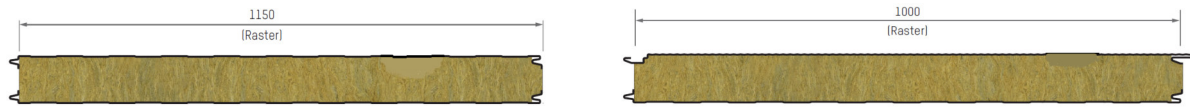
(see Comments no. 8)

Structural system	Color group	Wind uplift pressure kN/m ²											
		-0,25	-0,50	-0,75	-1,00	-1,25	-1,50	-1,75	-2,00	-2,25	-2,50	-2,75	-3,00
1- span	I,II,III	8,73	5,96	4,91	4,30	3,46	2,88	2,47	2,16	1,92	1,73	1,57	1,44
2- span	I	8,34	5,96	4,91	4,30	3,46	2,88	2,47	2,16	1,92	1,73	1,57	1,44
	II	7,34	5,33	4,45	3,94	3,46	2,88	2,47	2,16	1,92	1,73	1,57	1,44
	III	4,22	3,40	3,02	2,78	2,61	2,47	2,37	2,16	1,92	1,73	1,57	1,44
3- span	I	8,73	6,18	5,04	4,32	3,46	2,88	2,47	2,16	1,92	1,73	1,57	1,44
	II	8,73	6,18	5,04	4,33	3,46	2,88	2,47	2,16	1,92	1,73	1,57	1,44
	III	7,12	5,12	4,24	3,72	3,37	2,88	2,47	2,16	1,92	1,73	1,57	1,44

Table W.30: Characteristic wind uplift for screws in kN/m², direct fastening with 3 or 5 screws per support (see Comments no. 9)

Structural system	Color group	Characteristic wind uplift for screws in kN/m ²											
		-0,25	-0,50	-0,75	-1,00	-1,25	-1,50	-1,75	-2,00	-2,25	-2,50	-2,75	-3,00
1- span	I,II,III	3	3	3	3	3	3	3	3	3	3	3	3
		5,46	5,46	5,04	4,33	3,46	2,88	2,47	2,16	1,92	1,73	1,57	1,44
		5	5	5	5	5	5	5	5	5	5	5	5
		8,73	6,18	5,04	4,33	3,46	2,88	2,47	2,16	1,92	1,73	1,57	1,44
2- span	I	3	3	3	3	3	3	3	3	3	3	3	3
		8,34	5,96	3,75	2,58	1,96	1,58	1,34	1,17	1,04	0,95	0,87	0,80
		5	5	5	5	5	5	5	5	5	5	5	5
		8,34	5,96	4,91	4,30	3,41	2,82	2,40	2,09	1,85	1,67	1,52	1,40
	II	3	3	3	3	3	3	3	3	3	3	3	3
		7,34	5,33	3,50	2,34	1,74	1,40	1,18	1,04	0,93	0,85	0,78	0,73
		5	5	5	5	5	5	5	5	5	5	5	5
		7,34	5,33	4,45	3,94	3,29	2,70	2,28	1,98	1,75	1,57	1,43	1,32
	III	3	3	3	3	3	3	3	3	3	3	3	3
		4,22	3,40	3,02	1,10	0,90	0,81	0,74	0,70	0,66	0,63	0,60	0,58
		5	5	5	5	5	5	5	5	5	5	5	5
		4,22	3,40	3,02	2,78	2,61	2,47	2,10	1,80	1,59	1,42	1,29	1,19
3- span	I	3	3	3	3	3	3	3	3	3	3	3	3
		7,76	6,18	4,66	3,30	2,53	2,05	1,71	1,47	1,29	1,14	1,03	0,94
		5	5	5	5	5	5	5	5	5	5	5	5
		8,73	6,18	5,04	4,32	3,46	2,88	2,47	2,16	1,92	1,73	1,57	1,44
	II	3	3	3	3	3	3	3	3	3	3	3	3
		7,76	6,18	4,58	3,21	2,45	1,96	1,63	1,39	1,21	1,07	0,96	0,88
		5	5	5	5	5	5	5	5	5	5	5	5
		8,73	6,18	5,04	4,33	3,46	2,88	2,47	2,16	1,92	1,73	1,57	1,44
	III	3	3	3	3	3	3	3	3	3	3	3	3
		7,12	5,12	4,24	3,08	2,31	1,82	1,49	1,26	1,09	0,96	0,86	0,78
		5	5	5	5	5	5	5	5	5	5	5	5
		7,12	5,12	4,24	3,72	3,37	2,88	2,47	2,16	1,92	1,73	1,57	1,44

Permissible spans for ROMA wall elements FP80 LL/ML 0.6/0.5 or FV80 ML/LL 0.6/0.5



The following spans have been verified in accordance with the general building authority approval Z-10.49-837 of June 10. 2021 as well as based on EN 14509. Annex E. particularly using table E.6 and E.8. The most adverse loading condition combination consisting of wind and temperature has been verified in accordance with EN 14509. Annex E. The application notes (see page 2) must be observed.

Table W.31: Wind pressure

Structural system	Color group	Charakteristischer Winddruck kN/m ²											
		0,25	0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00
1- span	I,II,III	40	66	81	94	105	115	116	116	116	116	116	116
		8,87	6,27	5,12	4,44	3,97	3,62	3,14	2,74	2,44	2,20	2,00	1,83
2- span	I,II	40	40	41	47	52	57	58	58	58	58	58	58
		8,87	6,27	5,12	4,44	3,97	3,62	3,14	2,75	2,44	2,2	2	1,83
	60	66	81	94	105	115	116	116	116	116	116	116	
	40	40	41	47	52	57	58	58	58	58	58	58	
III	8,87	6,27	5,12	4,44	3,97	3,62	3,14	2,74	2,44	2,20	2,00	1,83	
	60	66	81	94	105	115	116	116	116	116	116	116	
3- span	I	40	40	41	47	52	57	58	58	58	58	58	58
		8,87	6,27	5,12	4,44	3,97	3,62	3,14	2,74	2,44	2,20	2,00	1,83
	60	66	81	94	105	115	116	116	116	116	116	116	
	II	40	40	41	47	52	57	58	58	58	58	58	58
		8,87	6,27	5,12	4,44	3,97	3,62	3,14	2,74	2,44	2,20	2,00	1,83
	60	66	81	94	105	115	116	116	116	116	116	116	
III	40	40	41	47	52	57	58	58	58	58	58	58	
	8,87	6,27	5,12	4,44	3,97	3,62	3,14	2,74	2,44	2,20	2,00	1,83	
60	66	81	94	105	115	116	116	116	116	116	116		

Table W.32: Wind uplift pressure

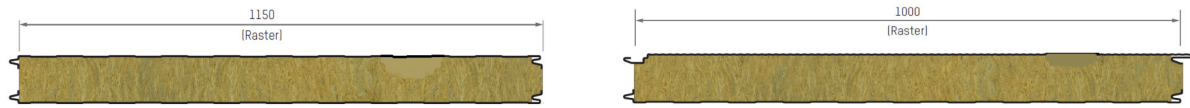
(see Comments no. 8)

Structural system	Color group	Wind uplift pressure kN/m ²											
		-0,25	-0,50	-0,75	-1,00	-1,25	-1,50	-1,75	-2,00	-2,25	-2,50	-2,75	-3,00
1- span	I,II,III	9,85	6,65	5,48	4,80	4,33	3,66	3,14	2,74	2,44	2,20	2,00	1,83
		9,29	6,65	5,48	4,80	4,33	3,66	3,14	2,74	2,44	2,20	2,00	1,83
2- span	I	7,81	5,72	4,80	4,27	3,90	3,63	3,14	2,74	2,44	2,20	2,00	1,83
	III	4,09	3,46	3,13	2,92	2,76	2,64	2,54	2,46	2,39	2,20	2,00	1,83
	II	9,85	6,96	5,69	4,92	4,39	3,66	3,14	2,75	2,44	2,20	2,00	1,83
3- span	II	9,85	6,96	5,69	4,92	4,39	3,66	3,14	2,74	2,44	2,20	2,00	1,83
	III	7,34	5,31	4,42	3,90	3,55	3,29	3,09	2,75	2,44	2,20	2,00	1,83
	I	9,85	6,96	5,69	4,92	4,39	3,66	3,14	2,75	2,44	2,20	2,00	1,83

Table W.33: Characteristic wind uplift for screws in kN/m², direct fastening with 3 or 5screws per support (see Comments no. 9)

Structural system	Color group	Characteristic wind uplift for screws in kN/m ²												
		-0,25	-0,50	-0,75	-1,00	-1,25	-1,50	-1,75	-2,00	-2,25	-2,50	-2,75	-3,00	
1- span	I,II,III	3	3	3	3	3	3	3	3	3	3	3	3	3
		6,62	6,62	5,69	4,92	4,39	3,66	3,14	2,74	2,44	2,20	2,00	1,83	
		5	5	5	5	5	5	5	5	5	5	5	5	
		9,85	6,96	5,69	4,92	4,39	3,66	3,14	2,74	2,44	2,20	2,00	1,83	
2- span	I	3	3	3	3	3	3	3	3	3	3	3	3	
		9,15	6,54	3,65	2,46	1,86	1,51	1,29	1,13	1,02	0,93	0,85	0,79	
		5	5	5	5	5	5	5	5	5	5	5	5	
		9,29	6,65	5,48	4,22	3,32	2,74	2,33	2,03	1,80	1,63	1,49	1,37	
	II	3	3	3	3	3	3	3	3	3	3	3	3	
		7,81	5,72	3,29	2,12	1,56	1,21	1,05	0,95	0,88	0,82	0,76	0,71	
		5	5	5	5	5	5	5	5	5	5	5	5	
		7,81	5,72	4,80	4,04	3,15	2,58	2,18	1,89	1,68	1,51	1,38	1,27	
	III	3	3	3	3	3	3	3	3	3	3	3	3	
		4,09	1,02	0,88	0,80	0,75	0,70	0,67	0,64	0,61	0,59	0,57	0,55	
		5	5	5	5	5	5	5	5	5	5	5	5	
		4,09	3,46	3,13	2,92	2,76	2,31	1,93	1,67	1,48	1,33	1,22	1,13	
3- span	I	3	3	3	3	3	3	3	3	3	3	3	3	
		9,20	6,96	4,70	3,28	2,50	2,00	1,67	1,43	1,25	1,11	1,00	0,91	
		5	5	5	5	5	5	5	5	5	5	5	5	
		9,85	6,96	5,69	4,92	4,02	3,32	2,83	2,46	2,18	1,95	1,77	1,61	
	II	3	3	3	3	3	3	3	3	3	3	3	3	
		9,21	6,96	4,59	3,17	2,38	1,89	1,56	1,32	1,15	1,02	0,92	0,84	
		5	5	5	5	5	5	5	5	5	5	5	5	
		9,85	6,96	5,69	4,92	3,96	3,26	2,77	2,40	2,12	1,89	1,71	1,56	
	III	3	3	3	3	3	3	3	3	3	3	3	3	
		7,34	5,31	4,41	2,98	2,18	1,69	1,36	1,15	0,99	0,88	0,80	0,73	
		5	5	5	5	5	5	5	5	5	5	5	5	
		7,34	5,31	4,42	3,90	3,55	3,16	2,67	2,30	2,02	1,79	1,61	1,46	

Permissible spans for ROMA wall elements FP100 LL/ML 0.6/0.5 or FV100 ML/LL 0.6/0.5



The following spans have been verified in accordance with the general building authority approval Z-10.49-837 of June 10. 2021 as well as based on EN 14509. Annex E. particularly using table E.6 and E.8. The most adverse loading condition combination consisting of wind and temperature has been verified in accordance with EN 14509. Annex E. The application notes (see page 2) must be observed.

Table W.34: Wind pressure

Structural system	Color group	Charakteristischer Winddruck kN/m ²											
		0,25	0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00
1- span	I,II,III	40	86	106	122	136	137	137	137	137	137	137	137
		11,53	8,15	6,66	5,76	5,15	4,33	3,71	3,24	2,88	2,60	2,36	2,16
2- span	I,II	40	40	50	58	66	69	69	69	69	69	69	69
		10,52	7,59	6,26	5,49	4,96	4,33	3,71	3,24	2,89	2,6	2,36	2,16
	60	80	99	116	131	137	137	137	137	137	137	137	
	40	40	42	55	66	69	69	69	69	69	69	69	
III	5,23	5,23	5,23	5,23	4,96	4,33	3,71	3,24	2,88	2,60	2,36	2,16	
	60	60	83	111	131	137	137	137	137	137	137	137	
3- span	I	40	43	53	61	68	69	69	69	69	69	69	69
		11,53	8,15	6,66	5,76	5,16	4,33	3,71	3,25	2,89	2,60	2,36	2,16
	61	86	106	122	136	137	137	137	137	137	137	137	
	II	40	43	53	61	68	69	69	69	69	69	69	69
		11,53	8,15	6,66	5,76	5,16	4,33	3,71	3,25	2,89	2,60	2,36	2,16
	61	86	106	122	136	137	137	137	137	137	137	137	
III	40	43	53	61	68	69	69	69	69	69	69	69	
	11,53	8,15	6,66	5,76	5,16	4,33	3,71	3,25	2,89	2,60	2,36	2,16	
61	86	106	122	136	137	137	137	137	137	137	137		

Table W.35: Wind uplift pressure

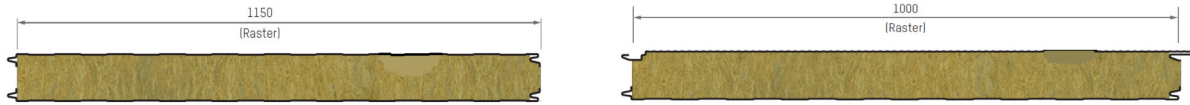
(see Comments no. 8)

Structural system	Color group	Wind uplift pressure kN/m ²											
		-0,25	-0,50	-0,75	-1,00	-1,25	-1,50	-1,75	-2,00	-2,25	-2,50	-2,75	-3,00
1- span	I,II,III	10,72	7,58	6,19	5,36	4,80	4,33	3,71	3,25	2,88	2,60	2,36	2,16
2- span	I	9,98	7,15	5,91	5,17	4,67	4,31	3,71	3,24	2,88	2,60	2,36	2,16
	II	7,92	5,86	4,96	4,43	4,07	3,80	3,59	3,24	2,88	2,60	2,36	2,16
	III	3,81	3,38	3,13	2,96	2,82	2,72	2,63	2,56	2,49	2,44	2,36	2,16
3- span	I	10,72	7,58	6,19	5,36	4,80	4,33	3,71	3,25	2,89	2,60	2,36	2,16
	II	10,72	7,58	6,19	5,36	4,80	4,33	3,71	3,25	2,89	2,60	2,36	2,16
	III	7,08	5,19	4,37	3,89	3,56	3,32	3,13	2,98	2,85	2,60	2,36	2,16

Table W.36: Characteristic wind uplift for screws in kN/m², direct fastening with 3 or 5 screws per support (see Comments no. 9)

Structural system	Color group	Characteristic wind uplift for screws in kN/m ²												
		-0,25	-0,50	-0,75	-1,00	-1,25	-1,50	-1,75	-2,00	-2,25	-2,50	-2,75	-3,00	
1- span	I,II,III	3	3	3	3	3	3	3	3	3	3	3	3	3
		7,61	7,58	6,19	5,36	4,80	4,33	3,71	3,25	2,88	2,60	2,36	2,16	
		5	5	5	5	5	5	5	5	5	5	5	5	5
		10,72	7,58	6,19	5,36	4,80	4,33	3,71	3,25	2,88	2,60	2,36	2,16	
2-span	I	3	3	3	3	3	3	3	3	3	3	3	3	
		9,00	6,63	3,54	2,34	1,77	1,45	1,25	1,10	1,00	0,91	0,84	0,79	
		5	5	5	5	5	5	5	5	5	5	5	5	
		9,98	7,15	5,62	4,12	3,23	2,66	2,27	1,98	1,76	1,60	1,46	1,35	
	II	3	3	3	3	3	3	3	3	3	3	3	3	
		7,92	5,86	3,04	1,48	1,17	1,03	0,94	0,88	0,82	0,78	0,74	0,71	
		5	5	5	5	5	5	5	5	5	5	5	5	
		7,92	5,86	4,96	3,90	3,02	2,46	2,09	1,82	1,62	1,46	1,34	1,24	
	III	3	3	3	3	3	3	3	3	3	3	3	3	
		0,92	0,84	0,78	0,73	0,69	0,66	0,64	0,61	0,59	0,57	0,55	0,54	
		5	5	5	5	5	5	5	5	5	5	5	5	
		3,81	3,38	3,13	2,96	2,65	2,13	1,79	1,54	1,36	1,24	1,16	1,09	
3- span	I	3	3	3	3	3	3	3	3	3	3	3	3	
		10,43	7,58	4,76	3,27	2,46	1,96	1,63	1,39	1,21	1,08	0,98	0,89	
		5	5	5	5	5	5	5	5	5	5	5	5	
		10,72	7,58	6,19	5,02	3,98	3,28	2,79	2,43	2,14	1,92	1,74	1,58	
	II	3	3	3	3	3	3	3	3	3	3	3	3	
		10,44	7,58	4,61	3,12	2,31	1,81	1,48	1,26	1,10	0,98	0,89	0,81	
		5	5	5	5	5	5	5	5	5	5	5	5	
		10,72	7,58	6,19	4,94	3,90	3,20	2,71	2,34	2,06	1,84	1,66	1,51	
	III	3	3	3	3	3	3	3	3	3	3	3	3	
		7,08	5,19	4,37	2,86	2,04	1,55	1,25	1,04	0,88	0,79	0,73	0,68	
		5	5	5	5	5	5	5	5	5	5	5	5	
		7,08	5,19	4,37	3,89	3,56	3,08	2,58	2,22	1,94	1,72	1,54	1,40	

Permissible spans for ROMA wall elements FP120 LL/ML 0.6/0.5 or FV120 ML/LL 0.6/0.5



The following spans have been verified in accordance with the general building authority approval Z-10.49-837 of June 10. 2021 as well as based on EN 14509. Annex E. particularly using table E.6 and E.8. The most adverse loading condition combination consisting of wind and temperature has been verified in accordance with EN 14509. Annex E. The application notes (see page 2) must be observed.

Table W.37: Wind pressure

Structural system	Color group	Charakteristischer Winddruck kN/m ²											
		0,25	0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00
1- span	I,II,III	40	92	112	130	145	153	153	153	153	153	153	153
		12,26	8,67	7,08	6,13	5,48	4,81	4,12	3,60	3,20	2,88	2,62	2,40
2- span	I,II	40	41	51	60	68	76	76	76	76	76	76	76
		10,62	7,7	6,43	5,68	5,17	4,8	4,12	3,61	3,21	2,88	2,62	2,4
	60	81	102	120	137	152	153	153	153	153	153	153	
	40	40	40	43	53	64	75	76	76	76	76	76	
III	4,03	4,03	4,03	4,03	4,03	4,03	4,03	3,61	3,21	2,88	2,62	2,40	
	60	60	64	85	107	128	149	153	153	153	153	153	
3- span	I	40	46	56	65	73	76	76	76	76	76	76	76
		12,26	8,67	7,08	6,13	5,48	4,81	4,12	3,60	3,21	2,89	2,62	2,40
	65	92	112	130	145	153	153	153	153	153	153	153	
	II	40	46	56	65	73	76	76	76	76	76	76	76
		12,26	8,67	7,08	6,13	5,48	4,81	4,12	3,60	3,21	2,89	2,62	2,40
	65	92	112	130	145	153	153	153	153	153	153	153	
III	40	46	56	65	73	76	76	76	76	76	76	76	
	12,26	8,67	7,08	6,13	5,48	4,81	4,12	3,60	3,20	2,88	2,62	2,40	
65	92	112	130	145	153	153	153	153	153	153	153	153	

Table W.38: Wind uplift pressure

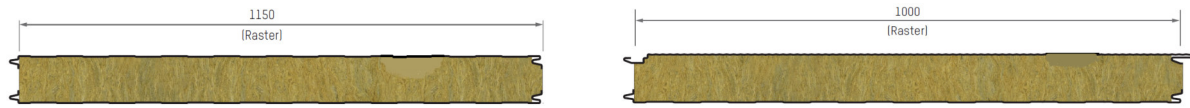
(see Comments no. 8)

Structural system	Color group	Wind uplift pressure kN/m ²											
		-0,25	-0,50	-0,75	-1,00	-1,25	-1,50	-1,75	-2,00	-2,25	-2,50	-2,75	-3,00
1- span	I,II,III	11,40	8,06	6,58	5,70	5,10	4,66	4,12	3,60	3,20	2,88	2,62	2,40
2- span	I	10,45	7,50	6,20	5,44	4,92	4,54	4,12	3,61	3,21	2,88	2,62	2,40
	II	7,71	5,80	4,96	4,47	4,12	3,87	3,67	3,51	3,21	2,88	2,62	2,40
	III	3,50	3,23	3,05	2,92	2,81	2,73	2,65	2,59	2,53	2,48	2,44	2,40
3- span	I	11,40	8,06	6,58	5,70	5,10	4,66	4,12	3,61	3,21	2,89	2,62	2,40
	II	11,04	7,88	6,50	5,67	5,10	4,66	4,12	3,61	3,20	2,89	2,62	2,40
	III	6,34	4,79	4,11	3,70	3,42	3,22	3,06	2,92	2,81	2,72	2,62	2,40

Table W.39: Characteristic wind uplift for screws in kN/m², direct fastening with 3 or 5 screws per support (see Comments no. 9)

Structural system	Color group	Characteristic wind uplift for screws in kN/m ²												
		-0,25	-0,50	-0,75	-1,00	-1,25	-1,50	-1,75	-2,00	-2,25	-2,50	-2,75	-3,00	
1- span	I,II,III	3	3	3	3	3	3	3	3	3	3	3	3	3
		8,49	8,06	6,58	5,70	5,10	4,66	4,12	3,60	3,20	2,88	2,62	2,40	
		5	5	5	5	5	5	5	5	5	5	5	5	5
		11,40	8,06	6,58	5,70	5,10	4,66	4,12	3,60	3,20	2,88	2,62	2,40	
2- span	I	3	3	3	3	3	3	3	3	3	3	3	3	
		8,66	6,75	3,43	2,24	1,70	1,41	1,22	1,09	0,99	0,91	0,84	0,78	
		5	5	5	5	5	5	5	5	5	5	5	5	
		10,45	7,50	5,51	4,02	3,15	2,59	2,21	1,94	1,73	1,57	1,44	1,33	
	II	3	3	3	3	3	3	3	3	3	3	3	3	
		7,71	5,80	1,51	1,18	1,04	0,96	0,89	0,84	0,79	0,75	0,72	0,69	
		5	5	5	5	5	5	5	5	5	5	5	5	
		7,71	5,80	4,96	3,74	2,89	2,36	2,00	1,75	1,57	1,43	1,31	1,22	
	III	3	3	3	3	3	3	3	3	3	3	3	3	
		0,83	0,78	0,73	0,70	0,67	0,64	0,62	0,60	0,58	0,56	0,54	0,53	
		5	5	5	5	5	5	5	5	5	5	5	5	
		3,50	3,23	3,05	2,92	2,44	1,71	1,46	1,31	1,21	1,13	1,07	1,02	
3- span	I	3	3	3	3	3	3	3	3	3	3	3	3	
		11,18	8,06	4,81	3,26	2,42	1,92	1,59	1,36	1,19	1,06	0,96	0,88	
		5	5	5	5	5	5	5	5	5	5	5	5	
		11,40	8,06	6,58	4,97	3,93	3,24	2,75	2,39	2,11	1,88	1,71	1,56	
	II	3	3	3	3	3	3	3	3	3	3	3	3	
		11,04	7,88	4,63	3,06	2,23	1,74	1,42	1,21	1,06	0,95	0,86	0,79	
		5	5	5	5	5	5	5	5	5	5	5	5	
		11,04	7,88	6,50	4,88	3,83	3,14	2,66	2,29	2,02	1,80	1,62	1,48	
	III	3	3	3	3	3	3	3	3	3	3	3	3	
		6,34	4,79	4,11	2,72	1,88	1,28	0,95	0,84	0,76	0,71	0,67	0,63	
		5	5	5	5	5	5	5	5	5	5	5	5	
		6,34	4,79	4,11	3,70	3,42	2,98	2,50	2,14	1,86	1,65	1,48	1,35	

Permissible spans for ROMA wall elements FP140 LL/ML 0.6/0.5 or FV140 ML/LL 0.6/0.5



The following spans have been verified in accordance with the general building authority approval Z-10.49-837 of June 10. 2021 as well as based on EN 14509, Annex E, particularly using table E.6 and E.8. The most adverse loading condition combination consisting of wind and temperature has been verified in accordance with EN 14509, Annex E. The application notes (see page 2) must be observed.

Table W.40: Wind pressure

Structural system	Color group	Charakteristischer Winddruck kN/m ²											
		0,25	0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00
1- span	I,II,III	40	96	118	136	152	166	167	167	167	167	167	167
		12,83	9,07	7,41	6,42	5,74	5,24	4,50	3,94	3,50	3,15	2,86	2,62
2- span	I,II	40	40	51	60	69	77	83	83	83	83	83	83
		10,4	7,61	6,39	5,67	5,18	4,83	4,5	3,94	3,5	3,15	2,86	2,62
	60	81	101	120	137	153	167	167	167	167	167	167	
	40	40	40	40	46	55	64	74	83	83	83	83	
III	3,48	3,48	3,48	3,48	3,48	3,48	3,48	3,48	3,48	3,15	2,86	2,62	
	60	60	60	74	92	110	129	147	166	167	167	167	
3- span	I	40	48	59	68	76	83	83	83	83	83	83	83
		12,83	9,07	7,41	6,42	5,74	5,24	4,50	3,94	3,50	3,15	2,86	2,62
	68	96	118	136	152	166	167	167	167	167	167	167	
	II	40	48	59	68	76	83	83	83	83	83	83	83
		12,83	9,07	7,41	6,42	5,74	5,24	4,50	3,94	3,50	3,15	2,86	2,62
	68	96	118	136	152	166	167	167	167	167	167	167	
III	40	48	59	68	76	83	83	83	83	83	83	83	
	12,83	9,07	7,41	6,42	5,74	5,24	4,50	3,94	3,50	3,15	2,86	2,62	
68	96	118	136	152	166	167	167	167	167	167	167	167	

Table W.41: Wind uplift pressure

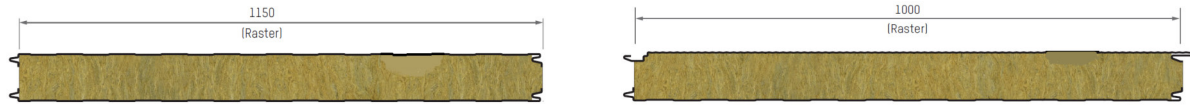
(see Comments no. 8)

Structural system	Color group	Wind uplift pressure kN/m ²											
		-0,25	-0,50	-0,75	-1,00	-1,25	-1,50	-1,75	-2,00	-2,25	-2,50	-2,75	-3,00
1- span	I,II,III	9,27	9,27	9,28	8,33	6,40	5,20	4,38	3,78	3,32	2,96	2,68	2,44
2- span	I	8,16	6,89	3,32	2,14	1,62	1,36	1,20	1,08	0,98	0,90	0,84	0,78
	II	8,16	2,40	1,23	1,08	0,98	0,91	0,86	0,81	0,77	0,74	0,71	0,68
	III	0,79	0,74	0,71	0,68	0,65	0,63	0,61	0,59	0,57	0,55	0,54	0,52
3- span	I	10,72	8,98	4,87	3,24	2,39	1,88	1,55	1,33	1,16	1,04	0,94	0,87
	II	10,72	8,78	4,65	3,01	2,16	1,67	1,37	1,17	1,03	0,92	0,84	0,78
	III	10,72	8,46	4,27	2,58	1,17	0,92	0,82	0,75	0,70	0,67	0,63	0,61

Table W.42: Characteristic wind uplift for screws in kN/m², direct fastening with 3 or 5 screws per support (see Comments no. 9)

Structural system	Color group	Characteristic wind uplift for screws in kN/m ²											
		-0,25	-0,50	-0,75	-1,00	-1,25	-1,50	-1,75	-2,00	-2,25	-2,50	-2,75	-3,00
1- span	I,II,III	3	3	3	3	3	3	3	3	3	3	3	3
		9,27	9,27	9,28	8,33	6,40	5,20	4,38	3,78	3,32	2,96	2,68	2,44
		5	5	5	5	5	5	5	5	5	5	5	5
		9,27	9,27	9,28	8,33	6,40	5,20	4,38	3,78	3,32	2,96	2,68	2,44
2- span	I	3	3	3	3	3	3	3	3	3	3	3	3
		8,16	6,89	3,32	2,14	1,62	1,36	1,20	1,08	0,98	0,90	0,84	0,78
		5	5	5	5	5	5	5	5	5	5	5	5
		8,16	6,89	3,32	2,14	1,62	1,36	1,20	1,08	0,98	0,90	0,84	0,78
	II	3	3	3	3	3	3	3	3	3	3	3	3
		8,16	2,40	1,23	1,08	0,98	0,91	0,86	0,81	0,77	0,74	0,71	0,68
		5	5	5	5	5	5	5	5	5	5	5	5
		8,16	2,40	1,23	1,08	0,98	0,91	0,86	0,81	0,77	0,74	0,71	0,68
	III	3	3	3	3	3	3	3	3	3	3	3	3
		0,79	0,74	0,71	0,68	0,65	0,63	0,61	0,59	0,57	0,55	0,54	0,52
		5	5	5	5	5	5	5	5	5	5	5	5
		0,79	0,74	0,71	0,68	0,65	0,63	0,61	0,59	0,57	0,55	0,54	0,52
3- span	I	3	3	3	3	3	3	3	3	3	3	3	3
		10,72	8,98	4,87	3,24	2,39	1,88	1,55	1,33	1,16	1,04	0,94	0,87
		5	5	5	5	5	5	5	5	5	5	5	5
		10,72	8,98	4,87	3,24	2,39	1,88	1,55	1,33	1,16	1,04	0,94	0,87
	II	3	3	3	3	3	3	3	3	3	3	3	3
		10,72	8,78	4,65	3,01	2,16	1,67	1,37	1,17	1,03	0,92	0,84	0,78
		5	5	5	5	5	5	5	5	5	5	5	5
		10,72	8,78	4,65	3,01	2,16	1,67	1,37	1,17	1,03	0,92	0,84	0,78
	III	3	3	3	3	3	3	3	3	3	3	3	3
		10,72	8,46	4,27	2,58	1,17	0,92	0,82	0,75	0,70	0,67	0,63	0,61
		5	5	5	5	5	5	5	5	5	5	5	5
		10,72	8,46	4,27	2,58	1,17	0,92	0,82	0,75	0,70	0,67	0,63	0,61

Permissible spans for ROMA wall elements FP150 LL/ML 0.6/0.5 or FV150 ML/LL 0.6/0.5



The following spans have been verified in accordance with the general building authority approval Z-10.49-837 of June 10. 2021 as well as based on EN 14509. Annex E. particularly using table E.6 and E.8. The most adverse loading condition combination consisting of wind and temperature has been verified in accordance with EN 14509. Annex E. The application notes (see page 2) must be observed.

Table W.43: Wind pressure

Structural system	Color group	Charakteristischer Winddruck kN/m ²											
		0,25	0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00
1- span	I,II,III	40	99	121	140	156	171	179	179	179	179	179	179
		13,21	9,34	7,63	6,61	5,91	5,39	4,82	4,22	3,75	3,38	3,07	2,81
2- span	I,II	40	41	52	61	70	78	86	89	89	89	89	89
		10,56	7,74	6,51	5,79	5,29	4,93	4,65	4,22	3,75	3,38	3,07	2,81
	60	82	103	122	140	156	172	179	179	179	179	179	
	40	40	40	40	46	55	65	74	83	89	89	89	
3- span	III	3,48	3,48	3,48	3,48	3,48	3,48	3,48	3,48	3,48	3,38	3,07	2,81
		60	60	60	74	92	111	129	147	166	179	179	179
	I	40	49	61	70	78	86	89	89	89	89	89	89
		13,21	9,34	7,63	6,61	5,91	5,39	4,82	4,22	3,75	3,38	3,07	2,81
3- span	II	70	99	121	140	156	171	179	179	179	179	179	179
		40	49	61	70	78	86	89	89	89	89	89	89
	13,21	9,34	7,62	6,61	5,91	5,39	4,82	4,22	3,75	3,38	3,07	2,81	
	70	99	121	140	156	171	179	179	179	179	179	179	
III	40	49	61	70	78	86	89	89	89	89	89	89	
	13,21	9,34	7,63	6,61	5,91	5,39	4,82	4,22	3,75	3,38	3,07	2,81	
		70	99	121	140	156	171	179	179	179	179	179	

Table W.44: Wind uplift pressure

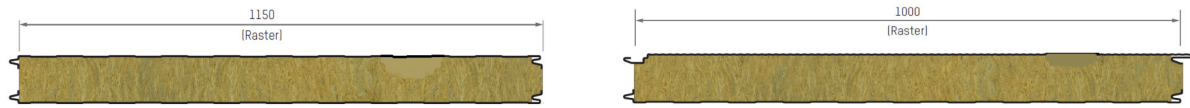
(see Comments no. 8)

Structural system	Color group	Wind uplift pressure kN/m ²											
		-0,25	-0,50	-0,75	-1,00	-1,25	-1,50	-1,75	-2,00	-2,25	-2,50	-2,75	-3,00
1- span	I,II,III	12,29	8,69	7,10	6,14	5,50	5,02	4,64	4,22	3,75	3,38	3,07	2,81
2- span	I	10,76	7,83	6,55	5,77	5,23	4,83	4,52	4,22	3,75	3,38	3,07	2,81
	II	7,24	5,63	4,91	4,47	4,16	3,93	3,75	3,60	3,48	3,37	3,07	2,81
	III	3,26	3,10	2,98	2,89	2,81	2,74	2,68	2,63	2,58	2,54	2,50	2,47
3- span	I	12,29	8,69	7,10	6,14	5,50	5,02	4,64	4,22	3,75	3,38	3,07	2,81
	II	10,98	7,88	6,52	5,71	5,17	4,77	4,46	4,21	3,75	3,38	3,07	2,81
	III	5,05	4,13	3,69	3,40	3,20	3,05	2,93	2,82	2,74	2,66	2,59	2,54

Table W.45: Characteristic wind uplift for screws in kN/m², direct fastening with 3 or 5 screws per support (see Comments no. 9)

Structural system	Color group	Characteristic wind uplift for screws in kN/m ²												
		-0,25	-0,50	-0,75	-1,00	-1,25	-1,50	-1,75	-2,00	-2,25	-2,50	-2,75	-3,00	
1- span	I,II,III	3	3	3	3	3	3	3	3	3	3	3	3	3
		9,65	8,69	7,10	6,14	5,50	5,02	4,40	3,79	3,34	2,98	2,69	2,45	
		5	5	5	5	5	5	5	5	5	5	5	5	5
		12,29	8,69	7,10	6,14	5,50	5,02	4,64	4,22	3,75	3,38	3,07	2,81	
2- span	I	3	3	3	3	3	3	3	3	3	3	3	3	
		8,13	6,96	3,26	2,10	1,53	1,31	1,18	1,07	0,98	0,90	0,84	0,78	
		5	5	5	5	5	5	5	5	5	5	5	5	
		10,76	7,83	5,34	3,87	3,03	2,50	2,14	1,88	1,68	1,53	1,41	1,31	
	II	3	3	3	3	3	3	3	3	3	3	3	3	
		7,24	1,41	1,17	1,05	0,96	0,90	0,85	0,80	0,77	0,73	0,70	0,68	
		5	5	5	5	5	5	5	5	5	5	5	5	
		7,24	5,63	4,91	3,52	2,71	2,22	1,90	1,68	1,51	1,38	1,28	1,19	
	III	3	3	3	3	3	3	3	3	3	3	3	3	
		0,77	0,73	0,70	0,67	0,65	0,62	0,60	0,58	0,56	0,55	0,53	0,52	
		5	5	5	5	5	5	5	5	5	5	5	5	
		3,26	3,10	2,98	1,84	1,50	1,34	1,24	1,16	1,09	1,04	1,00	0,96	
3- span	I	3	3	3	3	3	3	3	3	3	3	3	3	
		10,70	8,69	4,90	3,24	2,38	1,86	1,54	1,31	1,15	1,03	0,94	0,86	
		5	5	5	5	5	5	5	5	5	5	5	5	
		12,29	8,69	6,64	4,91	3,87	3,18	2,69	2,34	2,06	1,84	1,67	1,52	
	II	3	3	3	3	3	3	3	3	3	3	3	3	
		10,69	7,88	4,66	2,98	2,12	1,64	1,34	1,15	1,01	0,91	0,84	0,77	
		5	5	5	5	5	5	5	5	5	5	5	5	
		10,98	7,88	6,52	4,78	3,74	3,05	2,57	2,22	1,94	1,73	1,57	1,43	
	III	3	3	3	3	3	3	3	3	3	3	3	3	
		5,05	4,13	3,69	2,50	0,99	0,86	0,78	0,73	0,68	0,65	0,62	0,60	
		5	5	5	5	5	5	5	5	5	5	5	5	
		5,05	4,13	3,69	3,40	3,20	2,85	2,37	2,02	1,76	1,56	1,41	1,28	

Permissible spans for ROMA wall elements FP170 LL/ML 0.6/0.5 or FV170 ML/LL 0.6/0.5



The following spans have been verified in accordance with the general building authority approval Z-10.49-837 of June 10. 2021 as well as based on EN 14509, Annex E, particularly using table E.6 and E.8. The most adverse loading condition combination consisting of wind and temperature has been verified in accordance with EN 14509, Annex E. The application notes (see page 2) must be observed.

Table W.46: Wind pressure

Structural system	Color group	Charakteristischer Winddruck kN/m ²											
		0,25	0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00
1- span	I,II,III	40	104	128	147	165	180	195	199	199	199	199	199
		13,92	9,84	8,03	6,96	6,22	5,68	5,26	4,70	4,18	3,76	3,42	3,14
2- span	I,II	40	42	53	63	72	81	89	97	100	100	100	100
		10,8	7,94	6,71	5,97	5,48	5,11	4,82	4,59	4,18	3,76	3,42	3,14
	60	84	106	126	145	162	179	194	199	199	199	199	
	40	40	40	40	46	56	65	74	83	93	100	100	
III	3,50	3,50	3,50	3,50	3,50	3,50	3,50	3,50	3,50	3,50	3,42	3,13	
	60	60	60	74	93	111	130	148	167	185	199	199	
3- span	I	40	52	64	74	82	90	97	100	100	100	100	100
		13,92	9,84	8,03	6,96	6,22	5,68	5,26	4,70	4,18	3,76	3,42	3,14
	74	104	128	147	165	180	195	199	199	199	199	199	
	II	40	52	64	74	82	90	97	100	100	100	100	100
		13,92	9,84	8,03	6,96	6,22	5,68	5,26	4,70	4,18	3,76	3,42	3,14
	74	104	128	147	165	180	195	199	199	199	199	199	
III	40	52	64	74	82	90	97	100	100	100	100	100	
	10,82	9,84	8,03	6,96	6,22	5,68	5,26	4,70	4,18	3,76	3,42	3,14	
60	104	128	147	165	180	195	199	199	199	199	199		

Table W.47: Wind uplift pressure

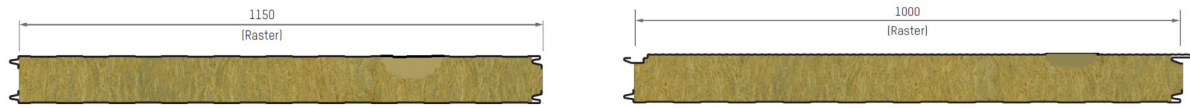
(see Comments no. 8)

Structural system	Color group	Wind uplift pressure kN/m ²											
		-0,25	-0,50	-0,75	-1,00	-1,25	-1,50	-1,75	-2,00	-2,25	-2,50	-2,75	-3,00
1- span	I,II,III	12,94	9,15	7,47	6,47	5,79	5,28	4,89	4,58	4,18	3,76	3,42	3,14
2- span	I	11,10	8,10	6,79	6,02	5,48	5,06	4,75	4,49	4,18	3,76	3,42	3,14
	II	7,28	5,74	5,04	4,60	4,30	4,07	3,89	3,74	3,61	3,51	3,41	3,14
	III	3,30	3,17	3,06	2,97	2,89	2,83	2,77	2,72	2,68	2,64	2,60	2,56
3- span	I	12,94	9,15	7,47	6,47	5,79	5,28	4,89	4,58	4,18	3,76	3,42	3,14
	II	11,25	8,08	6,70	5,88	5,33	4,92	4,60	4,36	4,15	3,76	3,42	3,14
	III	4,80	4,05	3,67	3,42	3,23	3,09	2,97	2,88	2,80	2,72	2,66	2,60

Table W.48: Characteristic wind uplift for screws in kN/m², direct fastening with 3 or 5 screws per support (see Comments no. 9)

Structural system	Color group	Characteristic wind uplift for screws in kN/m ²												
		-0,25	-0,50	-0,75	-1,00	-1,25	-1,50	-1,75	-2,00	-2,25	-2,50	-2,75	-3,00	
1- span	I,II,III	3	3	3	3	3	3	3	3	3	3	3	3	3
		10,31	9,15	7,47	6,47	5,79	5,28	4,44	3,83	3,36	3,00	2,70	2,46	
		5	5	5	5	5	5	5	5	5	5	5	5	5
		12,94	9,15	7,47	6,47	5,79	5,28	4,89	4,58	4,18	3,76	3,42	3,14	
2- span	I	3	3	3	3	3	3	3	3	3	3	3	3	
		8,04	7,15	3,14	1,77	1,42	1,25	1,14	1,05	0,97	0,90	0,83	0,78	
		5	5	5	5	5	5	5	5	5	5	5	5	
		11,10	8,10	5,23	3,77	2,95	2,44	2,09	1,85	1,66	1,52	1,40	1,30	
	II	3	3	3	3	3	3	3	3	3	3	3	3	
		5,04	1,24	1,10	1,00	0,93	0,88	0,83	0,79	0,76	0,72	0,70	0,67	
		5	5	5	5	5	5	5	5	5	5	5	5	
		7,28	5,74	4,81	3,37	2,60	2,14	1,85	1,64	1,48	1,36	1,26	1,18	
	III	3	3	3	3	3	3	3	3	3	3	3	3	
		0,75	0,72	0,69	0,66	0,64	0,62	0,60	0,58	0,56	0,54	0,53	0,52	
		5	5	5	5	5	5	5	5	5	5	5	5	
		3,30	3,17	1,85	1,50	1,35	1,24	1,17	1,10	1,05	1,01	0,97	0,93	
3- span	I	3	3	3	3	3	3	3	3	3	3	3	3	
		10,62	9,15	4,97	3,23	2,34	1,83	1,51	1,29	1,14	1,02	0,93	0,86	
		5	5	5	5	5	5	5	5	5	5	5	5	
		12,94	9,15	6,60	4,86	3,82	3,14	2,66	2,30	2,03	1,82	1,64	1,50	
	II	3	3	3	3	3	3	3	3	3	3	3	3	
		10,62	8,08	4,69	2,92	2,05	1,58	1,30	1,12	0,99	0,90	0,82	0,76	
		5	5	5	5	5	5	5	5	5	5	5	5	
		11,25	8,08	6,46	4,72	3,68	3,00	2,52	2,17	1,90	1,70	1,53	1,40	
	III	3	3	3	3	3	3	3	3	3	3	3	3	
		4,80	4,05	3,67	0,99	0,86	0,79	0,74	0,69	0,66	0,63	0,60	0,58	
		5	5	5	5	5	5	5	5	5	5	5	5	
		4,80	4,05	3,67	3,42	3,23	2,75	2,28	1,94	1,70	1,51	1,36	1,24	

Permissible spans for ROMA wall elements FP200 LL/ML 0.6/0.5 or ML/LL 0.6/0.5



The following spans have been verified in accordance with the general building authority approval Z-10.49-837 of June 10. 2021 as well as based on EN 14509. Annex E. particularly using table E.6 and E.8. The most adverse loading condition combination consisting of wind and temperature has been verified in accordance with EN 14509. Annex E. The application notes (see page 2) must be observed.

Table W.49: Wind pressure

Structural system	Color group	Charakteristischer Winddruck kN/m ²											
		0,25	0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00
1- span	I,II,III	40	111	136	157	176	192	208	222	230	230	230	230
		14,84	10,49	8,57	7,42	6,64	6,06	5,61	5,25	4,84	4,36	3,96	3,63
2- span	I,II	40	43	55	65	75	84	93	101	110	115	115	115
		10,95	8,13	6,9	6,17	5,68	5,31	5,02	4,79	4,6	4,35	3,96	3,63
	60	86	110	131	150	169	186	203	219	230	230	230	
	40	40	40	40	46	55	65	74	83	92	102	111	
III	3,50	3,50	3,50	3,50	3,50	3,50	3,50	3,50	3,49	3,49	3,49	3,49	
	60	60	60	74	92	111	129	148	166	185	203	222	
3- span	I	40	56	68	78	88	96	104	111	115	115	115	115
		14,84	10,49	8,57	7,41	6,64	6,06	5,61	5,25	4,84	4,35	3,96	3,63
	79	111	136	157	176	192	208	222	230	230	230	230	
	II	40	56	68	79	88	96	104	111	115	115	115	115
		14,84	10,49	8,57	7,42	6,64	6,06	5,61	5,25	4,84	4,36	3,96	3,63
	79	111	136	157	176	192	208	222	230	230	230	230	
III	40	40	48	65	81	96	104	111	115	115	115	115	
	6,10	6,10	6,10	6,10	6,10	6,06	5,61	5,25	4,84	4,35	3,96	3,63	
60	65	97	129	161	192	208	222	230	230	230	230		

Table W.50: Wind uplift pressure

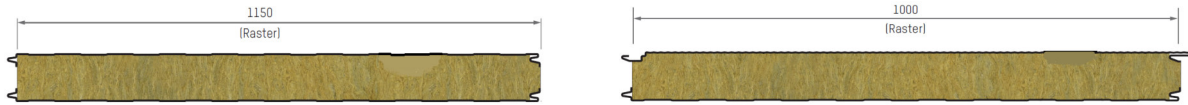
(see Comments no. 8)

Structural system	Color group	Wind uplift pressure kN/m ²											
		-0,25	-0,50	-0,75	-1,00	-1,25	-1,50	-1,75	-2,00	-2,25	-2,50	-2,75	-3,00
1- span	I,II,III	13,80	9,76	7,97	6,90	6,17	5,63	5,22	4,88	4,60	4,36	3,96	3,63
2- span	I	11,46	8,40	7,07	6,28	5,75	5,36	5,04	4,76	4,54	4,35	3,96	3,63
	II	7,19	5,80	5,15	4,74	4,44	4,22	4,05	3,90	3,77	3,67	3,57	3,49
	III	3,35	3,23	3,14	3,06	2,99	2,93	2,88	2,83	2,79	2,75	2,71	2,68
3- span	I	13,80	9,76	7,97	6,90	6,17	5,63	5,22	4,88	4,60	4,35	3,96	3,63
	II	11,45	8,26	6,86	6,04	5,49	5,08	4,76	4,50	4,30	4,12	3,96	3,63
	III	4,37	3,87	3,58	3,38	3,23	3,10	3,00	2,92	2,84	2,78	2,72	2,67

Table W.51: Characteristic wind uplift for screws in kN/m², direct fastening with 3 or 5 screws per support (see Comments no. 9)

Structural system	Color group	Characteristic wind uplift for screws in kN/m ²												
		-0,25	-0,50	-0,75	-1,00	-1,25	-1,50	-1,75	-2,00	-2,25	-2,50	-2,75	-3,00	
1- span	I,II,III	3	3	3	3	3	3	3	3	3	3	3	3	3
		11,23	9,76	7,97	6,90	6,17	5,39	4,51	3,88	3,40	3,03	2,73	2,48	
		5	5	5	5	5	5	5	5	5	5	5	5	5
		13,80	9,76	7,97	6,90	6,17	5,63	5,22	4,88	4,60	4,36	3,96	3,63	
2- span	I	3	3	3	3	3	3	3	3	3	3	3	3	
		7,83	7,49	2,43	1,54	1,33	1,20	1,10	1,03	0,97	0,90	0,83	0,78	
		5	5	5	5	5	5	5	5	5	5	5	5	
			11,46	8,07	5,06	3,63	2,85	2,36	2,04	1,81	1,63	1,50	1,38	1,29
	II	3	3	3	3	3	3	3	3	3	3	3	3	
		1,30	1,14	1,04	0,96	0,90	0,86	0,82	0,78	0,75	0,72	0,69	0,67	
		5	5	5	5	5	5	5	5	5	5	5	5	
			7,19	5,80	4,54	3,16	2,35	1,92	1,70	1,54	1,43	1,34	1,24	1,16
	III	3	3	3	3	3	3	3	3	3	3	3	3	
0,73		0,70	0,68	0,65	0,63	0,61	0,59	0,57	0,56	0,54	0,53	0,51		
5		5	5	5	5	5	5	5	5	5	5	5		
		3,35	1,69	1,45	1,32	1,23	1,16	1,10	1,05	1,01	0,97	0,94	0,91	
3- span	I	3	3	3	3	3	3	3	3	3	3	3	3	
		10,41	9,76	5,09	3,21	2,29	1,78	1,47	1,26	1,12	1,00	0,92	0,85	
		5	5	5	5	5	5	5	5	5	5	5	5	
			13,80	9,76	6,53	4,79	3,76	3,08	2,60	2,25	1,99	1,78	1,61	1,48
	II	3	3	3	3	3	3	3	3	3	3	3	3	
		10,40	8,26	4,74	2,83	1,94	1,50	1,19	1,04	0,95	0,88	0,81	0,75	
		5	5	5	5	5	5	5	5	5	5	5	5	
			11,45	8,26	6,36	4,62	3,59	2,91	2,44	2,10	1,84	1,64	1,49	1,36
	III	3	3	3	3	3	3	3	3	3	3	3	3	
4,37		3,87	0,96	0,85	0,78	0,73	0,70	0,66	0,63	0,61	0,59	0,57		
5		5	5	5	5	5	5	5	5	5	5	5		
		4,37	3,87	3,58	3,38	3,23	2,62	2,16	1,84	1,61	1,44	1,30	1,20	

Permissible spans for ROMA wall elements FP240 LL/ML 0.6/0.5 or FV g240 ML/LL 0.6/0.5



The following spans have been verified in accordance with the general building authority approval Z-10.49-837 of June 10. 2021 as well as based on EN 14509. Annex E. particularly using table E.6 and E.8. The most adverse loading condition combination consisting of wind and temperature has been verified in accordance with EN 14509. Annex E. The application notes (see page 2) must be observed.

Table W.52: Wind pressure

Structural system	Color group	Charakteristischer Winddruck kN/m ²											
		0,25	0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00
1- span	I,II,III	42	118	145	168	188	206	222	238	252	265	266	267
		15,87	11,22	9,16	7,94	7,10	6,48	6,00	5,61	5,29	5,02	4,58	4,20
2- span	I,II	40	43	56	67	77	87	96	105	114	122	130	133
		10,9	8,21	7,02	6,32	5,84	5,48	5,2	4,97	4,78	4,62	4,48	4,2
	60	87	111	134	154	174	193	210	228	244	261	267	
	40	40	40	40	46	55	65	74	83	92	102	111	
	III	3,49	3,49	3,49	3,49	3,49	3,49	3,49	3,49	3,49	3,49	3,49	3,49
		60	60	66	75	92	111	129	148	166	185	203	222
3- span	I	41	59	73	84	94	103	111	119	126	133	133	133
		15,62	11,16	9,16	7,94	7,10	6,48	6,00	5,61	5,29	5,02	4,58	4,20
	83	118	145	168	188	206	222	238	252	265	266	267	
	41	59	73	84	94	103	111	119	126	133	133	133	
	15,61	11,15	9,16	7,94	7,10	6,48	6,00	5,61	5,29	5,02	4,58	4,20	
	83	118	145	168	188	206	222	238	252	266	267	266	
	III	40	40	40	47	59	71	83	95	107	118	130	133
		4,47	4,47	4,47	4,47	4,47	4,47	4,47	4,47	4,47	4,47	4,47	4,20
		60	60	71	95	118	142	166	189	213	237	260	267

Table W.53: Wind uplift pressure

(see Comments no. 8)

Structural system	Color group	Wind uplift pressure kN/m ²											
		-0,25	-0,50	-0,75	-1,00	-1,25	-1,50	-1,75	-2,00	-2,25	-2,50	-2,75	-3,00
1- span	I,II,III	14,76	10,44	8,52	7,38	6,60	6,02	5,58	5,22	4,92	4,67	4,45	4,20
2- span	I	11,69	8,64	7,31	6,52	5,99	5,59	5,28	5,04	4,83	4,63	4,45	4,20
	II	6,94	5,78	5,21	4,84	4,56	4,36	4,19	4,05	3,93	3,82	3,73	3,65
	III	3,38	3,28	3,21	3,14	3,08	3,03	2,98	2,94	2,90	2,86	2,83	2,80
3- span	I	14,76	10,44	8,52	7,38	6,60	6,02	5,58	5,22	4,92	4,67	4,45	4,20
	II	11,43	8,30	6,94	6,13	5,58	5,18	4,87	4,63	4,42	4,24	4,10	3,96
	III	3,92	3,64	3,44	3,30	3,18	3,08	3,00	2,93	2,87	2,81	2,76	2,72

Table W.54: Characteristic wind uplift for screws in kN/m², direct fastening with 3 or 5 screws per support (see Comments no. 9)

Structural system	Color group	Characteristic wind uplift for screws in kN/m ²												
		-0,25	-0,50	-0,75	-1,00	-1,25	-1,50	-1,75	-2,00	-2,25	-2,50	-2,75	-3,00	
1- span	I,II,III	3	3	3	3	3	3	3	3	3	3	3	3	3
		12,30	10,44	8,52	7,38	6,60	5,53	4,61	3,95	3,46	3,07	2,76	2,51	
		5	5	5	5	5	5	5	5	5	5	5	5	5
		14,76	10,44	8,52	7,38	6,60	6,02	5,58	5,22	4,92	4,61	4,19	3,84	
2- span	I	3	3	3	3	3	3	3	3	3	3	3	3	3
		7,52	7,51	1,70	1,42	1,27	1,16	1,08	1,01	0,95	0,90	0,84	0,78	
		5	5	5	5	5	5	5	5	5	5	5	5	5
		11,69	7,82	4,84	3,46	2,73	2,28	1,98	1,77	1,61	1,47	1,37	1,28	
	II	3	3	3	3	3	3	3	3	3	3	3	3	3
		1,18	1,08	1,00	0,94	0,88	0,84	0,80	0,77	0,74	0,71	0,69	0,66	
		5	5	5	5	5	5	5	5	5	5	5	5	5
		6,94	5,78	4,17	2,37	1,92	1,70	1,55	1,44	1,35	1,28	1,22	1,15	
	III	3	3	3	3	3	3	3	3	3	3	3	3	3
		0,72	0,69	0,67	0,64	0,62	0,60	0,59	0,57	0,55	0,54	0,52	0,51	
		5	5	5	5	5	5	5	5	5	5	5	5	5
		1,57	1,40	1,30	1,22	1,15	1,10	1,05	1,01	0,97	0,94	0,91	0,88	
3- span	I	3	3	3	3	3	3	3	3	3	3	3	3	3
		10,01	10,01	5,28	3,20	2,24	1,73	1,43	1,24	1,10	0,99	0,91	0,84	
		5	5	5	5	5	5	5	5	5	5	5	5	5
		14,76	9,92	6,44	4,71	3,68	3,00	2,53	2,19	1,94	1,74	1,58	1,45	
	II	3	3	3	3	3	3	3	3	3	3	3	3	3
		10,01	8,30	4,84	2,71	1,64	1,21	1,06	0,96	0,89	0,84	0,79	0,75	
		5	5	5	5	5	5	5	5	5	5	5	5	5
		11,43	8,30	6,23	4,49	3,46	2,79	2,34	2,01	1,77	1,59	1,44	1,33	
	III	3	3	3	3	3	3	3	3	3	3	3	3	3
		1,10	0,92	0,84	0,78	0,74	0,70	0,67	0,64	0,61	0,59	0,57	0,55	
		5	5	5	5	5	5	5	5	5	5	5	5	5
		3,92	3,64	3,44	3,30	3,08	2,43	2,01	1,72	1,52	1,35	1,24	1,15	