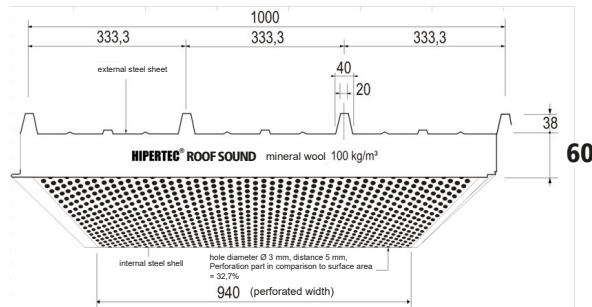


Span table 03-06

Hipertec Roof Sound (T/P-L), d = 60 mm

t_N = 0,60 / 0,60 mm, S 320 GD

The following maximum spans have been calculated according Zulassung Z-10.49-517 of May 20th 2022 for Metecno sandwich panels with mineral wool core. For the perforated internal sheets, reduced surface due to perforation as well as reduced crease tension have been taken into account. Sandwich panels with perforated sheets are not covered by DIN EN 14509. Instructions for the use of the table can be found on the cover sheet.



Valid supporting widths [m] for snow loads

stat. system	colour group	characteristic snow load in kN / m ²									
		0,25	0,60	0,70	0,80	0,90	1,00	1,25	1,50	1,75	2,00
single span	I, II, III	49	72	73	74	75	76	78	81	84	86
		4,58	3,68	3,30	3,00	2,75	2,54	2,16	1,90	1,70	1,55
dual span	I, II, III	40	40	40	45	49	54	65	77	84	86
		1,80	1,80	1,80	1,80	1,80	1,80	1,80	1,80	1,70	1,55
multiple span	I, II	40	40	40	41	45	49	60	71	81	86
		1,65	1,65	1,65	1,65	1,65	1,65	1,65	1,65	1,65	1,55
multiple span	III	60	65	73	82	90	99	120	141	162	172
		0,53*	0,53*	0,53*	0,53*	0,53*	0,53*	0,53*	0,53*	0,53*	0,53*
stat. system	colour group	characteristic snow load in kN / m ²									
		2,25	2,50	2,75	3,00	3,25	3,50	4,00	4,25	4,50	5,00
single span	I, II, III	89	91	94	96	98	101	106	108	110	115
		1,43	1,33	1,25	1,18	1,12	1,07	0,99	0,95	0,92	0,87
dual span	I, II, III	89	91	94	96	98	101	106	108	110	115
		1,43	1,33	1,25	1,18	1,12	1,07	0,99	0,95	0,92	0,87
multiple span	I, II	177	182	187	192	197	202	212	216	221	231
		1,43	1,33	1,25	1,18	1,12	1,07	0,99	0,95	0,92	0,87
multiple span	III	40	40	40	43	47	50	57	60	64	70
		0,53*	0,53*	0,53*	0,53*	0,53*	0,53*	0,53*	0,53*	0,53*	0,53*

Valid supporting widths [m] for wind suction

stat. system	colour group	characteristic wind suction in kN / m ²									
		0,25	0,40	0,50	0,60	0,70	0,80	0,90	1,00	1,25	1,50
single span	I, II, III	4,58	4,58	4,33	3,86	3,28	2,85	2,54	2,29	1,87	1,60
dual span	I, II, III	1,80	1,80	1,80	1,80	1,80	1,80	1,80	1,80	1,80	1,60
multiple span	I, II	1,65	1,65	1,65	1,65	1,65	1,65	1,65	1,65	1,65	1,60
	III	0,53*	0,53*	0,53*	0,53*	0,53*	0,53*	0,53*	0,53*	0,53*	0,53*
stat. system	colour group	characteristic wind suction in kN / m ²									
		1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	4,00	5,00
single span	I, II, III	1,42	1,28	1,18	1,09	1,03	0,98	0,93	0,89	0,82	0,73
dual span	I, II, III	1,42	1,28	1,18	1,09	1,03	0,98	0,93	0,89	0,82	0,73
multiple span	I, II	1,42	1,28	1,18	1,09	1,03	0,98	0,93	0,89	0,82	0,73
	III	0,53*	0,53*	0,53*	0,53*	0,53*	0,53*	0,53*	0,53*	0,53*	0,53*

*) größere Stützweiten sind im Einzelfall möglich; dies ist im Rahmen einer statischen Berechnung mit der konkreten Stützweite nachzuweisen

Subject to changes · As of 02/24

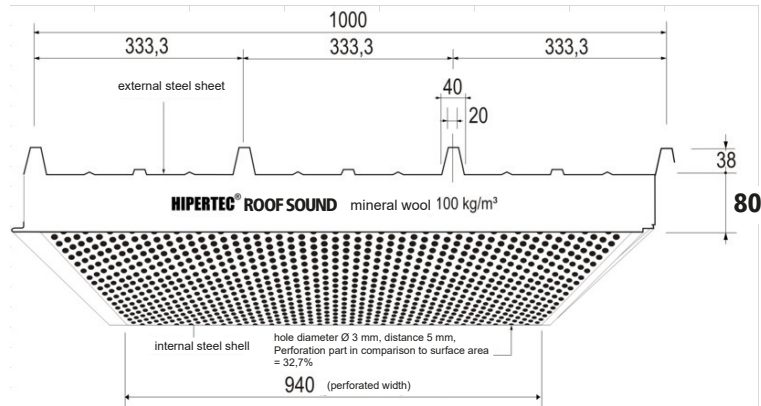


Span table 03-08

Hipertec Roof Sound (T/P-L), d = 80 mm

$t_N = 0,60 / 0,60$ mm, S 320 GD

The following maximum spans have been calculated according Zulassung Z-10.49-517 of May 20th 2022 for Metecno sandwich panels with mineral wool core. For the perforated internal sheets, reduced surface due to perforation as well as reduced crease tension have been taken into account. Sandwich panels with perforated sheets are not covered by DIN EN 14509. Instructions for the use of the table can be found on the cover sheet.



Valid supporting widths [m] for snow loads

stat. system	colour group	characteristic snow load in kN / m ²									
		0,25	0,60	0,70	0,80	0,90	1,00	1,25	1,50	1,75	2,00
single span	I, II, III	74	89	90	91	91	92	94	97	99	101
		6,67	4,40	3,95	3,58	3,28	3,03	2,56	2,24	1,99	1,80
dual span	I, II, III	40	41	46	51	56	61	74	87	99	101
		2,02	2,02	2,02	2,02	2,02	2,02	2,02	2,02	1,99	1,80
multiple span	I, II, III	40	40	42	47	52	57	69	81	92	101
		1,86	1,86	1,86	1,86	1,86	1,86	1,86	1,86	1,86	1,80
		60	75	85	94	104	113	137	161	185	202

stat. system	colour group	characteristic snow load in kN / m ²									
		2,25	2,50	2,75	3,00	3,25	3,50	4,00	4,25	4,50	5,00
single span	I, II, III	104	106	108	111	113	115	119	121	124	128
		1,66	1,53	1,43	1,35	1,28	1,21	1,11	1,06	1,03	0,96
dual span	I, II, III	104	106	108	111	113	115	119	121	124	128
		1,66	1,53	1,43	1,35	1,28	1,21	1,11	1,06	1,03	0,96
multiple span	I, II, III	104	106	108	111	113	115	119	121	124	128
		1,66	1,53	1,43	1,35	1,28	1,21	1,11	1,06	1,03	0,96
		208	211	216	221	226	229	239	242	248	256

Valid supporting widths [m] for wind suction

stat. system	colour group	characteristic wind suction in kN / m ²									
		0,25	0,40	0,50	0,60	0,70	0,80	0,90	1,00	1,25	1,50
single span	I, II, III	7,09	5,93	5,05	4,48	4,07	3,76	3,51	3,20	2,56	2,16
dual span	I, II, III	2,02	2,02	2,02	2,02	2,02	2,02	2,02	2,02	2,02	2,02
multiple span	I, II, III	1,86	1,86	1,86	1,86	1,86	1,86	1,86	1,86	1,86	1,86

stat. system	colour group	characteristic wind suction in kN / m ²									
		1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	4,00	5,00
single span	I, II, III	1,88	1,67	1,52	1,39	1,29	1,21	1,14	1,08	0,99	0,86
dual span	I, II, III	1,88	1,67	1,52	1,39	1,29	1,21	1,14	1,08	0,99	0,86
multiple span	I, II, III	1,86	1,67	1,52	1,39	1,29	1,21	1,14	1,08	0,99	0,86

Subject to changes · As of 02/24

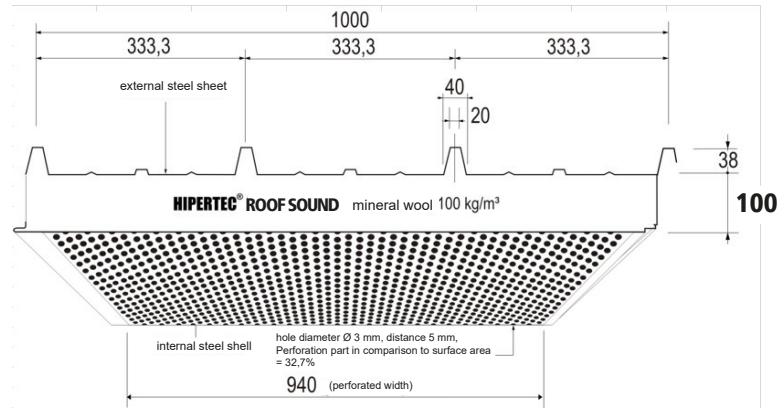


Span table 03-10

Hipertec Roof Sound (T/P-L), d = 100 mm

$t_N = 0,60 / 0,60$ mm, S 320 GD

The following maximum spans have been calculated according Zulassung Z-10.49-517 of May 20th 2022 for Metecno sandwich panels with mineral wool core. For the perforated internal sheets, reduced surface due to perforation as well as reduced crease tension have been taken into account. Sandwich panels with perforated sheets are not covered by DIN EN 14509. Instructions for the use of the table can be found on the cover sheet.



Valid supporting widths [m] for snow loads

stat. system	colour group	characteristic snow load in kN / m ²									
		0,25	0,60	0,70	0,80	0,90	1,00	1,25	1,50	1,75	2,00
single span	I, II, III	88	106	107	108	109	109	112	113	116	117
		7,54	5,12	4,59	4,16	3,82	3,52	2,98	2,58	2,30	2,07
dual span	I, II, III	40	46	52	58	64	69	84	98	113	117
		2,24	2,24	2,24	2,24	2,24	2,24	2,24	2,24	2,24	2,07
multiple span	I, II, III	60	93	104	116	127	139	168	197	225	235
		2,06	2,06	2,06	2,06	2,06	2,06	2,06	2,06	2,06	2,06
multiple span	I, II, III	40	43	48	53	59	64	77	90	104	117
		2,06	2,06	2,06	2,06	2,06	2,06	2,06	2,06	2,06	2,06
multiple span	I, II, III	60	85	96	107	117	128	154	181	207	234
		2,06	2,06	2,06	2,06	2,06	2,06	2,06	2,06	2,06	2,06

stat. system	colour group	characteristic snow load in kN / m ²									
		2,25	2,50	2,75	3,00	3,25	3,50	4,00	4,25	4,50	5,00
single span	I, II, III	119	122	124	126	128	130	134	136	138	142
		1,89	1,75	1,63	1,53	1,44	1,36	1,24	1,19	1,14	1,06
dual span	I, II, III	120	122	124	126	128	130	134	136	138	142
		1,90	1,75	1,63	1,53	1,44	1,36	1,24	1,19	1,14	1,06
multiple span	I, II, III	240	224	248	252	256	259	268	273	276	284
		1,90	1,75	1,63	1,53	1,44	1,36	1,24	1,19	1,14	1,06
multiple span	I, II, III	120	122	124	126	128	130	134	136	138	142
		1,90	1,75	1,63	1,53	1,44	1,36	1,24	1,19	1,14	1,06
multiple span	I, II, III	240	224	248	252	256	259	268	273	276	284
		1,90	1,75	1,63	1,53	1,44	1,36	1,24	1,19	1,14	1,06

Valid supporting widths [m] for wind suction

stat. system	colour group	characteristic wind suction in kN / m ²									
		0,25	0,40	0,50	0,60	0,70	0,80	0,90	1,00	1,25	1,50
single span	I, II, III	7,97	6,79	5,74	5,06	4,58	4,22	3,93	3,70	3,26	2,72
dual span	I, II, III	2,24	2,24	2,24	2,24	2,24	2,24	2,24	2,24	2,24	2,24
multiple span	I, II, III	2,06	2,06	2,06	2,06	2,06	2,06	2,06	2,06	2,06	2,06

stat. system	colour group	characteristic wind suction in kN / m ²									
		1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	4,00	5,00
single span	I, II, III	2,34	2,07	1,86	1,70	1,56	1,46	1,36	1,28	1,16	0,99
dual span	I, II, III	2,24	2,07	1,86	1,70	1,56	1,46	1,36	1,28	1,16	0,99
multiple span	I, II, III	2,06	2,07	1,86	1,70	1,56	1,46	1,36	1,28	1,16	0,99

Subject to changes · As of 02/24

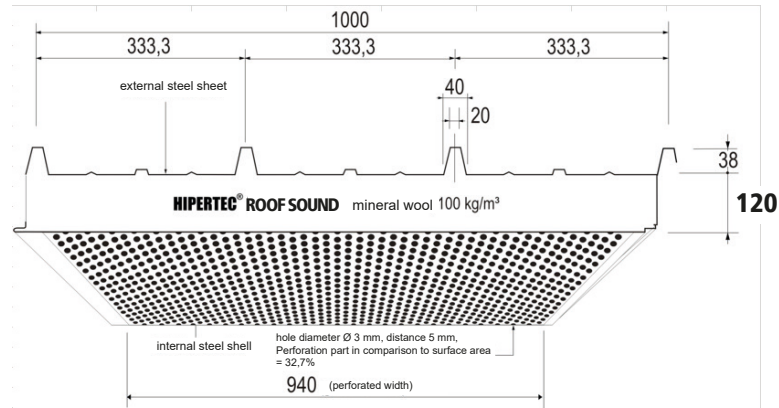


Span table 03-12

Hipertec Roof Sound (T/P-L), d = 120 mm

$t_N = 0,60 / 0,60$ mm, S 320 GD

The following maximum spans have been calculated according Zulassung Z-10.49-517 of May 20th 2022 for Metecno sandwich panels with mineral wool core. For the perforated internal sheets, reduced surface due to perforation as well as reduced crease tension have been taken into account. Sandwich panels with perforated sheets are not covered by DIN EN 14509. Instructions for the use of the table can be found on the cover sheet.



Valid supporting widths [m] for snow loads

stat. system	colour group	characteristic snow load in kN / m ²									
		0,25	0,60	0,70	0,80	0,90	1,00	1,25	1,50	1,75	2,00
single span	I, II, III	102	124	124	125	126	127	128	131	132	134
		8,33	5,81	5,22	4,74	4,34	4,02	3,38	2,94	2,60	2,34
dual span	I, II, III	45	78	88	97	107	116	128	131	132	134
		3,68	3,68	3,68	3,68	3,68	3,68	3,38	2,94	2,60	2,34
multiple span	I, II, III	57	99	111	123	126	127	128	131	132	134
		4,67	4,67	4,67	4,67	4,34	4,01	3,38	2,94	2,60	2,34
		115	199	223	247	253	253	257	261	264	268

stat. system	colour group	characteristic snow load in kN / m ²									
		2,25	2,50	2,75	3,00	3,25	3,50	4,00	4,25	4,50	5,00
single span	I, II, III	136	138	140	142	144	146	150	152	153	157
		2,14	1,97	1,83	1,71	1,61	1,52	1,38	1,32	1,26	1,17
dual span	I, II, III	136	138	140	142	144	146	150	152	153	157
		2,14	1,97	1,83	1,71	1,61	1,52	1,38	1,32	1,26	1,17
multiple span	I, II, III	136	138	140	142	144	146	150	152	153	157
		2,14	1,97	1,83	1,71	1,61	1,52	1,38	1,32	1,26	1,17
		273	276	280	284	288	291	300	304	306	315

Valid supporting widths [m] for wind suction

stat. system	colour group	characteristic wind suction in kN / m ²									
		0,25	0,40	0,50	0,60	0,70	0,80	0,90	1,00	1,25	1,50
single span	I, II, III	8,77	8,77	7,37	6,47	5,83	5,34	4,98	4,67	3,98	3,29
dual span	I, II, III	3,70	3,70	3,70	3,70	3,70	3,70	3,70	3,70	3,70	3,29
multiple span	I, II, III	4,71	4,71	4,71	4,71	4,71	4,71	4,71	4,67	3,98	3,29

stat. system	colour group	characteristic wind suction in kN / m ²									
		1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	4,00	5,00
single span	I, II, III	2,82	2,47	2,21	2,01	1,84	1,71	1,59	1,50	1,34	1,12
dual span	I, II, III	2,82	2,47	2,21	2,01	1,84	1,71	1,59	1,50	1,34	1,12
multiple span	I, II, III	2,82	2,47	2,21	2,01	1,84	1,71	1,59	1,50	1,34	1,12

Subject to changes · As of 02/24

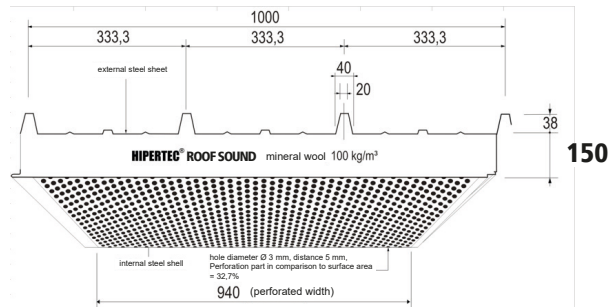


Span table 03-15

Hipertec Roof Sound (T/P-L), d = 150 mm

$t_N = 0,60 / 0,60$ mm, S 320 GD

The following maximum spans have been calculated according Zulassung Z-10.49-517 of May 20th 2022 for Metecno sandwich panels with mineral wool core. For the perforated internal sheets, reduced surface due to perforation as well as reduced crease tension have been taken into account. Sandwich panels with perforated sheets are not covered by DIN EN 14509. Instructions for the use of the table can be found on the cover sheet.



Valid supporting widths [m] for snow loads

stat. system	colour group	characteristic snow load in kN / m ²									
		0,25	0,60	0,70	0,80	0,90	1,00	1,25	1,50	1,75	2,00
single span	I, II, III	123	150	151	152	152	153	155	157	158	160
		9,39	6,79	6,11	5,56	5,10	4,72	3,98	3,46	3,06	2,75
dual span	I, II, III	52	88	98	108	119	129	147	152	158	160
		3,98	3,98	3,98	3,98	3,98	3,98	3,98	3,37	3,06	2,75
multiple span	I, II, III	65	109	122	134	147	153	155	156	158	160
		4,93	4,93	4,93	4,93	4,93	4,72	3,98	3,45	3,06	2,75
		129	218	243	269	294	306	309	312	316	320
stat. system	colour group	characteristic snow load in kN / m ²									
		2,25	2,50	2,75	3,00	3,25	3,50	4,00	4,25	4,50	5,00
single span	I, II, III	161	163	165	167	169	170	174	175	177	181
		2,50	2,30	2,13	1,99	1,87	1,76	1,59	1,51	1,45	1,34
dual span	I, II, III	161	163	165	167	169	170	173	175	177	181
		2,50	2,30	2,13	1,99	1,87	1,76	1,58	1,51	1,45	1,34
multiple span	I, II, III	161	163	165	167	169	170	173	175	177	181
		2,50	2,30	2,13	1,99	1,87	1,76	1,58	1,51	1,45	1,34
		323	326	330	334	338	340	346	350	355	362

Valid supporting widths [m] for wind suction

stat. system	colour group	characteristic wind suction in kN / m ²									
		0,25	0,40	0,50	0,60	0,70	0,80	0,90	1,00	1,25	1,50
single span	I, II, III	9,86	9,86	8,52	7,40	6,63	6,07	5,62	5,27	4,61	4,15
dual span	I	3,99	3,99	3,99	3,99	3,99	3,99	3,99	3,99	3,99	3,99
	II	3,99	3,99	3,99	3,99	3,99	3,99	3,99	3,99	3,99	3,99
	III	3,98	3,98	3,98	3,98	3,98	3,98	3,98	3,98	3,98	3,62
multiple span	I	4,98	4,98	4,98	4,98	4,98	4,98	4,98	4,98	4,59	4,14
	II	4,98	4,98	4,98	4,98	4,98	4,98	4,98	4,98	4,59	4,14
	III	4,93	4,93	4,93	4,93	4,93	4,93	4,93	4,93	4,61	4,15
stat. system	colour group	characteristic wind suction in kN / m ²									
		1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	4,00	5,00
single span	I, II, III	3,54	3,08	2,74	2,47	2,26	2,08	1,93	1,81	1,60	1,33
dual span	I	3,52	3,08	2,74	2,47	2,26	2,08	1,93	1,81	1,60	1,33
	II	3,52	3,08	2,74	2,47	2,26	2,08	1,93	1,81	1,60	1,33
	III	3,15	2,79	2,54	2,34	2,18	2,04	1,92	1,81	1,60	1,33
multiple span	I	3,52	3,08	2,74	2,47	2,26	2,08	1,93	1,81	1,60	1,33
	II	3,52	3,08	2,74	2,47	2,26	2,08	1,93	1,81	1,60	1,33
	III	3,54	3,08	2,74	2,47	2,26	2,08	1,93	1,81	1,60	1,33

Subject to changes · As of 02/24

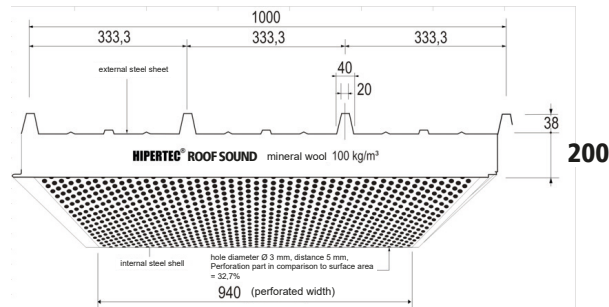


Span table 03-20

Hipertec Roof Sound (T/P-L), d = 200 mm

$t_N = 0,60 / 0,60$ mm, S 320 GD

The following maximum spans have been calculated according Zulassung Z-10.49-517 of May 20th 2022 for Metecno sandwich panels with mineral wool core. For the perforated internal sheets, reduced surface due to perforation as well as reduced crease tension have been taken into account. Sandwich panels with perforated sheets are not covered by DIN EN 14509. Instructions for the use of the table can be found on the cover sheet.



Valid supporting widths [m] for snow loads

stat. system	colour group	characteristic snow load in kN / m ²									
		0,25	0,60	0,70	0,80	0,90	1,00	1,25	1,50	1,75	2,00
single span	I, II, III	158	195	195	196	197	197	199	201	202	203
		10,92	8,29	7,49	6,84	6,30	5,84	4,94	4,30	3,80	3,42
dual span	I, II, III	63	103	114	125	137	148	166	173	178	183
		4,38	4,38	4,38	4,38	4,38	4,38	4,14	3,70	3,36	3,08
multiple span	I, II, III	76	124	137	151	164	178	187	193	198	203
		5,26	5,26	5,26	5,26	5,26	5,26	4,66	4,14	3,74	3,41
		153	247	274	301	328	355	375	386	397	406
stat. system	colour group	characteristic snow load in kN / m ²									
		2,25	2,50	2,75	3,00	3,25	3,50	4,00	4,25	4,50	5,00
single span	I, II, III	204	206	208	210	211	212	215	217	218	221
		3,10	2,85	2,64	2,46	2,30	2,16	1,94	1,85	1,76	1,62
dual span	I, II, III	188	192	197	201	204	208	215	217	218	221
		2,85	2,66	2,50	2,36	2,23	2,12	1,94	1,85	1,76	1,62
multiple span	I, II, III	376	385	394	402	409	416	430	434	436	443
		204	206	208	210	211	212	215	217	218	221
		3,10	2,85	2,64	2,46	2,30	2,16	1,94	1,85	1,76	1,62
		409	412	4,16	419	422	424	430	434	436	443

Valid supporting widths [m] for wind suction

stat. system	colour group	characteristic wind suction in kN / m ²									
		0,25	0,40	0,50	0,60	0,70	0,80	0,90	1,00	1,25	1,50
single span	I, II, III	11,37	11,37	10,48	8,95	7,94	7,21	6,65	6,20	5,39	4,83
dual span	I	4,40	4,40	4,40	4,40	4,40	4,40	4,40	4,40	4,40	3,66
	II	4,40	4,40	4,40	4,40	4,40	4,40	4,40	4,40	3,94	3,27
	III	4,40	4,40	4,40	4,40	4,40	4,20	3,28	2,94	2,50	2,25
multiple span	I	5,30	5,30	5,30	5,30	5,30	5,30	5,30	5,30	5,30	4,40
	II	5,30	5,30	5,30	5,30	5,30	5,30	5,30	5,30	5,04	4,11
	III	5,30	5,30	5,30	5,30	5,30	5,30	5,30	5,30	4,50	3,64
stat. system	colour group	characteristic wind suction in kN / m ²									
		1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	4,00	5,00
single span	I, II, III	4,42	4,10	3,66	3,28	2,98	2,73	2,52	2,35	2,07	1,68
dual span	I	3,16	2,80	2,53	2,32	2,14	2,00	1,88	1,77	1,60	1,35
	II	2,84	2,53	2,30	2,12	1,97	1,84	1,74	1,65	1,50	1,28
	III	2,08	1,95	1,84	1,76	1,68	1,61	1,56	1,48	1,36	1,18
multiple span	I	3,74	3,27	2,91	2,63	2,41	2,23	2,08	1,94	1,74	1,45
	II	3,49	3,04	2,71	2,46	2,25	2,08	1,94	1,83	1,64	1,38
	III	3,09	2,70	2,41	2,19	2,02	1,88	1,76	1,66	1,50	1,28

Subject to changes · As of 02/24

