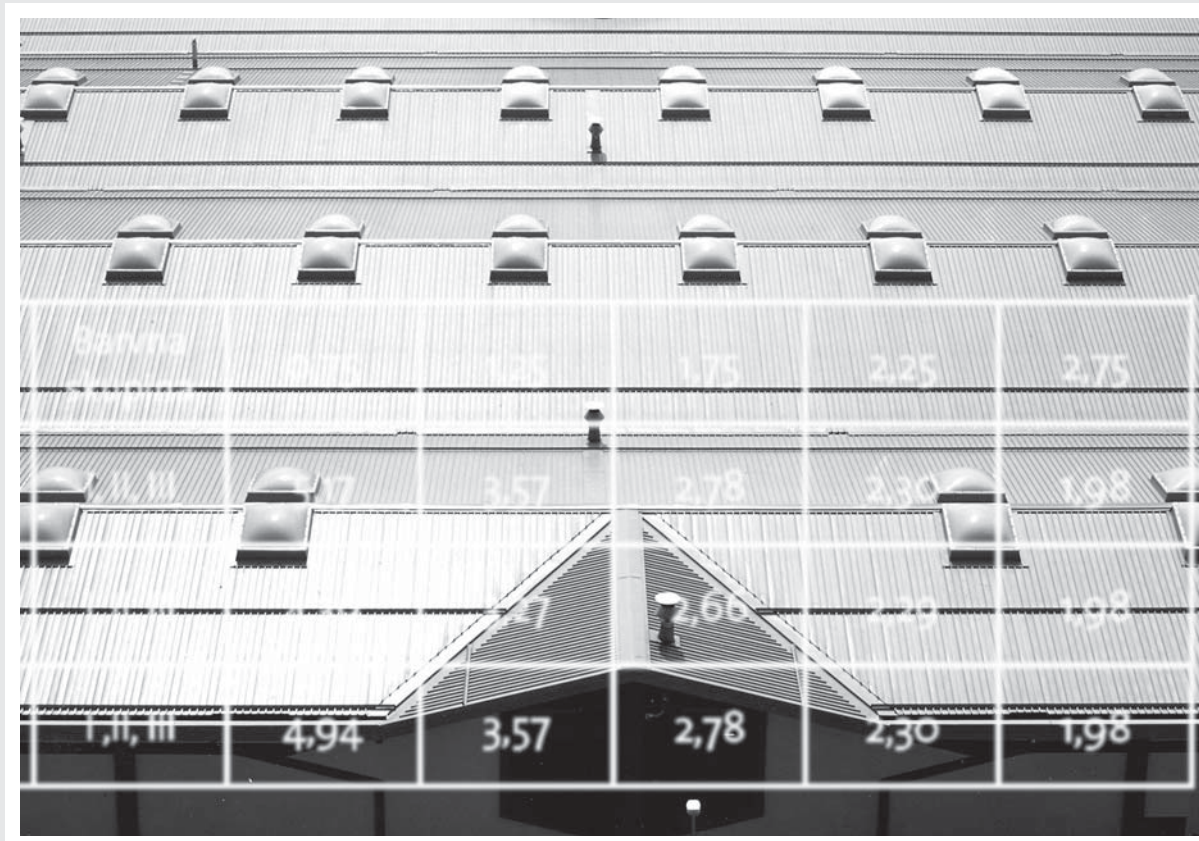
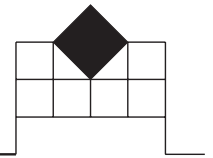


Structural Design Data

Roof Panels Trimoterm SNV





Appendix 3

Load Span Tables

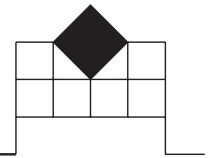
CONTENT

Trimoterm roof panels are verified in accordance with Sales Certificate No. Z-10.4-240 of 20 August 2001

- Load span table for roof panels SNV_{TS} , $t_N = 0,60/0,60$, $d/D = 60$ mm	2
- Load span table for roof panels SNV_{TS} , $t_N = 0,60/0,60$, $d/D = 80$ mm	2
- Load span table for roof panels SNV_{TS} , $t_N = 0,60/0,60$, $d/D = 100$ mm	2
- Load span table for roof panels SNV_{TS} , $t_N = 0,60/0,60$, $d/D = 120$ mm	3
- Load span table for roof panels SNV_{TS} , $t_N = 0,60/0,60$, $d/D = 150$ mm	3
- Load span table for roof panels SNV_{TS} , $t_N = 0,60/0,60$, $d/D = 200$ mm	3
- Colour groups	5
- Wind load in accordance with DIN 1055, Edition 8.86	5

EXAMPLE OF READING

46	Required width of end supports [mm]
5.65	Max. allowed span between supports [m]
92	Required width of intermediate supports [mm]



Load Span Table for Roof Panels Trimoterm SNV_{TS} 60, t_N = 0.60/0.60 mm

Span distances are stated further on are verified in accordance with Sales Certificate No. Z-10.4-240 of 20 August 2001 for the least favourable load cases due to self weight, snow, wind, temperature and long-term load activity.

The following should be considered:

- Load span table is valid for buildings with normal inner climate and maximum roof slope of 25°.
- Load span table is valid for closed buildings in accordance with DIN 1055, Part 4. The maximum pressure has been considered - 1.3 kN/m² (Building height ≥ 100 m).
- Max. allowed spans are stated in metres [m]. See front page for reading of required width.
- Deflection is limited amounts to max. 1/100 under consideration of all unfavourable loads in accordance with Sales Certificate, Appendix A, Section 7.6, including long-term loads (additional line in colour group marked by (f)).
- Fixing of panels should be for each individual case (displacement of screw head and fixing with respect to wind suction).
- Colour groups I (very light), II (light) and III (dark) - see Sales Certificate, Appendix A, Paragraph 3.4.2.

Roof Panel Trimoterm SNV _{TS} 60, t _N = 0,60/0,60 mm																			
Static System	Col. group	Snow load [kN/m ²]																	
		0,75	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00	4,25	4,50	4,75	5,00
Single-span support	I, II, III	41	42	43	45	46	47	48	50	51	52	53	55	56	57	58	59	61	62
		3,87	3,15	2,68	2,35	2,11	1,92	1,77	1,65	1,54	1,46	1,38	1,32	1,27	1,22	1,17	1,13	1,10	1,06
Double-span support	I, II, III	41	42	43	45	46	47	48	50	51	52	53	55	56	57	58	59	61	62
		3,85	3,14	2,67	2,35	2,10	1,92	1,76	1,64	1,54	1,46	1,38	1,32	1,27	1,22	1,17	1,13	1,10	1,06
Triple-span support	I, II, III	41	42	43	45	46	47	48	50	51	52	53	55	56	57	58	59	61	62
		3,85	3,14	2,67	2,35	2,10	1,92	1,76	1,64	1,54	1,46	1,38	1,32	1,27	1,22	1,17	1,13	1,10	1,06
		81	83	86	89	91	94	96	98	101	104	106	109	111	113	116	118	121	123

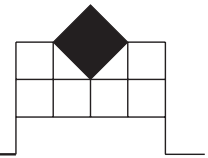
Load Span Table for Roof Panels Trimoterm SNV_{TS} 80, t_N = 0.60/0.60 mm

Span distances are stated further on are verified in accordance with Sales Certificate No. Z-10.4-240 of 20 August 2001 for the least favourable load cases due to self weight, snow, wind, temperature and long-term load activity.

The following should be considered:

- Load span table is valid for buildings with normal inner climate and maximum roof slope of 25°.
- Load span table is valid for closed buildings in accordance with DIN 1055, Part 4. The maximum pressure has been considered - 1.3 kN/m² (Building height ≥ 100 m).
- Max. allowed spans are stated in metres [m]. See front page for reading of required width.
- Deflection is limited amounts to max. 1/100 under consideration of all unfavourable loads in accordance with Sales Certificate, Appendix A, Section 7.6, including long-term loads (additional line in colour group marked by (f)).
- Fixing of panels should be for each individual case (displacement of screw head and fixing with respect to wind suction).
- Colour groups I (very light), II (light) and III (dark) - see Sales Certificate, Appendix A, Paragraph 3.4.2.

Roof Panel Trimoterm SNV _{TS} 80, t _N = 0,60/0,60 mm																			
Static system	Col. group	Snow load [kN/m ²]																	
		0,75	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00	4,25	4,50	4,75	5,00
Single-span support	I, II, III	46	47	48	50	51	52	53	54	55	57	58	59	60	61	62	63	64	65
		4,27	3,48	2,95	2,58	2,31	2,10	1,92	1,78	1,67	1,57	1,49	1,42	1,35	1,30	1,25	1,20	1,16	1,12
Double-span support	I, II, III	46	47	48	50	51	52	53	54	55	57	58	59	60	61	62	63	64	65
		4,25	3,46	2,94	2,58	2,30	2,09	1,92	1,78	1,67	1,57	1,49	1,42	1,35	1,30	1,25	1,20	1,16	1,12
Triple-span support	I, II, III	46	47	48	50	51	52	53	54	55	57	58	59	60	61	62	63	64	65
		4,25	3,46	2,94	2,58	2,30	2,09	1,92	1,78	1,67	1,57	1,49	1,42	1,35	1,30	1,25	1,20	1,16	1,12
		91	94	96	99	101	103	106	108	110	113	114	117	119	121	123	126	128	130



Load Span Table for Roof Panels Trimoterm SNV_{TS} 100, t_N = 0.60/0.60 mm

Span distances are stated further on are verified in accordance with Sales Certificate No. Z-10.4-240 of 20 August 2001 for the least favourable load cases due to self weight, snow, wind, temperature and long-term load activity.

The following should be considered:

- Load span table is valid for buildings with normal inner climate and maximum roof slope of 25°.
- Load span table is valid for closed buildings in accordance with DIN 1055, Part 4. The maximum pressure has been considered - 1.3 kN/m² (Building height ≥ 100 m).
- Max. allowed spans are stated in metres [m]. See front page for reading of required width.

- Deflection is limited amounts to max. l/100 under consideration of all unfavourable loads in accordance with Sales Certificate, Appendix A, Section 7.6, including long-term loads (additional line in colour group marked by (f)).
- Fixing of panels should be for each individual case (displacement of screw head and fixing with respect to wind suction).
- Colour groups I (very light), II (light) and III (dark) - see Sales Certificate, Appendix A, Paragraph 3.4.2.

Roof Panel Trimoterm SNV _{TS} 100, t _N = 0,60/0,60 mm																			
Static System	Col. group	Snow load [kN/m ²]																	
		0,75	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00	4,25	4,50	4,75	5,00
Single-span support	I, II, III	49	50	51	52	53	55	56	57	58	59	60	61	62	63	64	65	66	67
		4,43	3,62	3,07	2,69	2,40	2,18	2,00	1,85	1,73	1,62	1,54	1,46	1,39	1,33	1,28	1,23	1,19	1,15
Double-span support	I, II, III	49	50	51	52	53	55	56	57	58	59	60	61	62	63	64	65	66	67
		4,41	3,60	3,06	2,68	2,39	2,17	1,99	1,84	1,72	1,62	1,54	1,46	1,39	1,33	1,28	1,23	1,19	1,15
		97	100	102	104	106	108	110	112	115	117	119	124	126	128	130	132	134	
Triple-span support	I, II, III	49	50	51	52	53	55	56	57	58	59	60	61	62	63	64	65	66	67
		4,41	3,60	3,06	2,68	2,39	2,17	1,99	1,84	1,72	1,62	1,54	1,46	1,39	1,33	1,28	1,23	1,19	1,15
		97	100	102	104	106	108	110	112	115	117	119	124	126	128	130	132	134	

Load Span Table for Roof Panels Trimoterm SNV_{TS} 120, t_N = 0.60/0.60 mm

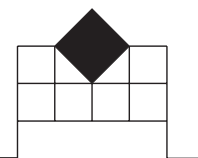
Span distances are stated further on are verified in accordance with Sales Certificate No. Z-10.4-240 of 20 August 2001 for the least favourable load cases due to self weight, snow, wind, temperature and long-term load activity.

The following should be considered:

- Load span table is valid for buildings with normal inner climate and maximum roof slope of 25°.
- Load span table is valid for closed buildings in accordance with DIN 1055, Part 4. The maximum pressure has been considered - 1.3 kN/m² (Building height ≥ 100 m).
- Max. allowed spans are stated in metres [m]. See front page for reading of required width.

- Deflection is limited amounts to max. l/100 under consideration of all unfavourable loads in accordance with Sales Certificate, Appendix A, Section 7.6, including long-term loads (additional line in colour group marked by (f)).
- Fixing of panels should be for each individual case (displacement of screw head and fixing with respect to wind suction).
- Colour groups I (very light), II (light) and III (dark) - see Sales Certificate, Appendix A, Paragraph 3.4.2.

Roof Panel Trimoterm SNV _{TS} 120, t _N = 0,60/0,60 mm																			
Static system	Col. group	Snow load [kN/m ²]																	
		0,75	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00	4,25	4,50	4,75	5,00
Single-span support	I, II, III	52	53	54	55	56	57	58	59	60	61	62	63	64	65	67	67	68	69
		4,58	3,74	3,19	2,79	2,49	2,25	2,07	1,91	1,78	1,68	1,58	1,50	1,43	1,37	1,32	1,26	1,22	1,18
Double-span support	I, II, III	52	53	54	55	56	57	58	59	60	61	62	63	64	65	67	67	68	69
		4,55	3,72	3,17	2,78	2,48	2,25	2,06	1,91	1,78	1,68	1,58	1,50	1,43	1,37	1,32	1,26	1,22	1,18
		103	105	107	109	111	114	115	118	120	122	124	126	128	130	132	134	136	138
Triple-span support	I, II, III	52	53	54	55	56	57	58	59	60	61	62	63	64	65	67	67	68	69
		4,55	3,72	3,17	2,78	2,48	2,25	2,06	1,91	1,78	1,68	1,58	1,50	1,43	1,37	1,32	1,26	1,22	1,18
		103	105	107	109	111	114	115	118	120	122	124	126	128	130	132	134	136	138



Load Span Table for Roof Panels Trimoterm SNV_{TS} 150, t_N = 0.60/0.60 mm

Span distances are stated further on are verified in accordance with Sales Certificate No. Z-10.4-240 of 20 August 2001 for the least favourable load cases due to self weight, snow, wind, temperature and long-term load activity.

The following should be considered:

- Load span table is valid for buildings with normal inner climate and maximum roof slope of 25°.
- Load span table is valid for closed buildings in accordance with DIN 1055, Part 4. The maximum pressure has been considered - 1.3 kN/m² (Building height ≥ 100 m).
- Max. allowed spans are stated in metres [m]. See front page for reading of required width.

- Deflection is limited amounts to max. l/100 under consideration of all unfavourable loads in accordance with Sales Certificate, Appendix A, Section 7.6, including long-term loads (additional line in colour group marked by (f)).
- Fixing of panels should be for each individual case (displacement of screw head and fixing with respect to wind suction).
- Colour groups I (very light), II (light) and III (dark) - see Sales Certificate, Appendix A, Paragraph 3.4.2.

Roof panel Trimoterm SNV _{TS} 150, t _N = 0,60/0,60 mm																			
Static system	Col. group	Snow load [kN/m ²]																	
		0,75	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00	4,25	4,50	4,75	5,00
Single-span support	I, II, III	63	63	65	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
		5,32	4,36	3,72	3,25	2,89	2,62	2,40	2,21	2,06	1,93	1,82	1,72	1,64	1,56	1,50	1,44	1,38	1,33
Double-span support	I, II, III	62	63	65	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
		5,28	4,34	3,70	3,23	2,88	2,61	2,39	2,20	2,05	1,92	1,81	1,72	1,64	1,56	1,50	1,44	1,38	1,33
		124	126	128	130	132	134	136	137	139	141	143	146	147	149	151	153	155	157
Triple-span support	I, II, III	62	63	65	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
		5,28	4,34	3,70	3,23	2,88	2,61	2,39	2,20	2,05	1,92	1,81	1,72	1,64	1,56	1,50	1,44	1,38	1,33
		124	126	128	130	132	134	136	137	139	141	143	146	147	149	151	153	155	157

Load Span Table for Roof Panels Trimoterm SNV_{TS} 200, t_N = 0.60/0.60 mm

Span distances are stated further on are verified in accordance with Sales Certificate No. Z-10.4-240 of 20 August 2001 for the least favourable load cases due to self weight, snow, wind, temperature and long-term load activity.

The following should be considered:

- Load span table is valid for buildings with normal inner climate and maximum roof slope of 25°.
- Load span table is valid for closed buildings in accordance with DIN 1055, Part 4. The maximum pressure has been considered - 1.3 kN/m² (Building height ≥ 100 m).
- Max. allowed spans are stated in metres [m]. See front page for reading of required width.

- Deflection is limited amounts to max. l/100 under consideration of all unfavourable loads in accordance with Sales Certificate, Appendix A, Section 7.6, including long-term loads (additional line in colour group marked by (f)).
- Fixing of panels should be for each individual case (displacement of screw head and fixing with respect to wind suction).
- Colour groups I (very light), II (light) and III (dark) - see Sales Certificate, Appendix A, Paragraph 3.4.2.

Roof Panel Trimoterm SNV _{TS} 200, t _N = 0,60/0,60 mm																			
Static system	Farb-gruppe	Snow load [kN/m ²]																	
		0,75	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00	4,25	4,50	4,75	5,00
Single-span support	I, II, III	80	81	82	83	84	85	86	87	88	89	90	91	91	92	93	94	95	96
		6,45	5,33	4,56	3,99	3,56	3,22	2,94	2,71	2,52	2,36	2,22	2,10	1,99	1,89	1,81	1,73	1,66	1,60
Double-span support	I, II, III	80	81	82	83	84	85	86	87	88	89	90	91	91	92	93	94	95	96
		6,41	5,30	4,53	3,97	3,54	3,20	2,93	2,70	2,51	2,35	2,21	2,09	1,98	1,89	1,81	1,73	1,66	1,60
		159	161	163	165	167	168	171	172	174	176	178	180	181	184	185	187	189	191
Triple-span support	I, II, III	80	81	82	83	84	85	86	87	88	89	90	91	91	92	93	94	95	96
		6,41	5,30	4,53	3,97	3,54	3,20	2,93	2,70	2,51	2,35	2,21	2,09	1,98	1,89	1,81	1,73	1,66	1,60
		159	161	163	165	167	168	171	172	174	176	178	180	181	184	185	187	189	191

Colour groups

RAL	Colour shade	Colour group	RAL	Colour shade	Colour group
9010	pure white	I.	2002	blood orange	III.
9001	cream white		6010	grass green	
1013	pearl white		8025	pale brown	
1015	light ivory		8004	copper brown	
9002	grey white		5007	briliant blue	
1018	zinc yellow		6001	emerald green	
1016	sulphur yellow		9000	fire red	
7035	light grey		6002	leaf red	
			3002	carmine red	
			6003	olive green	
1001	beige	II.	3009	oxide red	III.
1002	sand yellow		5009	sky blue	
7038	agate grey		7015	slate grey	
7032	cream grey		8007	deer brown	
9006	white aluminium		7013	brown grey	
1007	chromium yellow		5010	gentian blue	
1024	ochre yellow		8011	walnut brown	
2003	pastel orange		6005	moor green	
3021	pale green		7016	anthracite grey	
1020	olive yellow		3004	scarlet red	
7001	silver grey		5002	ultramarine blue	
2000	yellow orange		8014	sepia brown	
6018	yellow green		8016	mahogany brown	
7002	olive grey		6008	brown green	
6011	reseda green		5013	cobalt blue	
5012	light blue		7011	steel grey	
2004	pure orange				
8003	orange brown				
2001	red orange				
9007	grey aluminium				
5014	pigeon blue				
5023	light blue				
5024	pastel blue				
7037	dusty grey				

Wind load in accordance with DIN 1055, Edition 8.86

Height above the ground (m)	0 ... 8		> 8 ... 20		> 20 ... 100	
Form of a building h/a	< 0,25	> 0,50	< 0,25	> 0,50	< 0,25	> 0,50

Closed buildings

Wind pressure (kN/m ²)	0,50	0,50	0,80	0,80	1,10	1,10
Wind suction (kN/m ²)	0,25	0,35	0,40	0,56	0,55	0,77

Buildings with open sides

Wind pressure (kN/m ²)	0,75	0,75	1,20	1,20	1,65	1,65
Wind suction (kN/m ²)	0,75	0,75	1,20	1,36	1,65	1,87

Barvna skupina	0,75	1,25	1,75	2,25	2,75
I, II, III	5,17	3,57	2,78	2,30	1,98
I, II, III	4,39	3,27	2,66	2,29	1,98
I, II, III	4,94	3,57	2,78	2,30	1,98



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