

General notes on span tables for roof panels

Note the following:

- The characteristic loads are to be determined according to the terms of valid standards and eurocodes.
- Choose the minimal supporting width from wind pressure, snow load or wind suction for the respective case of application. The wind pressure that possibly needs to be taken into account may be added to the snow load for safety reasons. When doing so, the combination coefficients Ψ according to DIN EN 14509, Appendix E, Table E6 can be considered.
- Colour groups I (very light), II (light) and III (dark) – see approval.
- This span table is valid for buildings with normal interior climate (no cold store or ripening facilities).
- Valid supporting widths are stated in meters (m), support widths in millimetres (mm), see example below.
- The deflection amounts to a maximum of $L/100$ under consideration of all unfavourable loads, including long-time exposure, and to a maximum of $L/200$ for short-term exposure.
- In each case a separate proof for fixing material is required (for tensile load of wind suction and temperature, for pulling out of the subconstruction and the screw head deflection).

Example:

from snow load table (incl. wind pressure):

40	→ end support width necessary (mm)
3,44	→ valid supporting width (m)
60	→ intermediate support width necessary (mm)

from wind suction table:

5,19	→ valid supporting width (m)
-------------	------------------------------

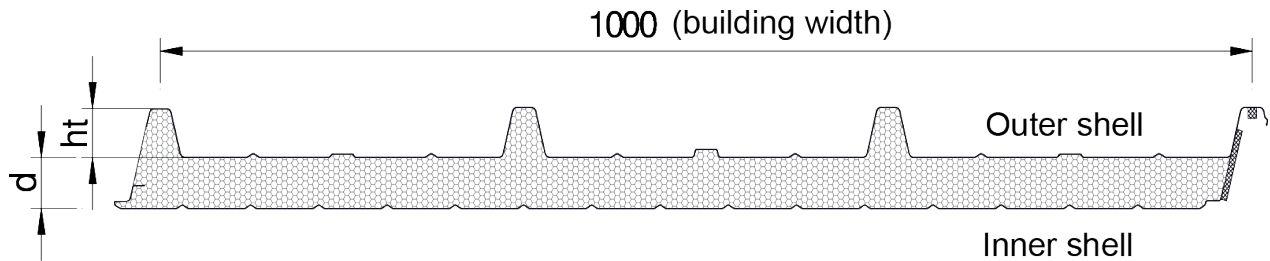
} valid supporting width = 3,44 m (lowest value of both tables)

Span table 02-03

G4 (T/S), d = 30 mm

t_N = 0,60 / 0,45 mm, S320GD

Max. valid supporting widths stated in the following are attested according to approval Z-10.49-516 of December 06, 2019 in accordance with EN 14509. Instructions for the application of the table can be gathered from the front page.



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	40	40	40	40	40	40	40	40	40	40	40
		4,15	3,11	2,85	2,64	2,46	2,30	2,01	1,80	1,64	1,52	
dual span	I, II, III	40	40	40	40	40	40	40	40	40	40	
		4,60	3,10	2,85	2,64	2,46	2,30	2,01	1,80	1,64	1,52	
multiple span	I, II, III	40	40	40	40	40	40	40	40	40	40	
		4,81	3,11	2,85	2,64	2,46	2,30	2,01	1,80	1,64	1,52	
		60	60	60	60	60	60	60	60	60	60	

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	40	40	40	40	40	40	40	40	40	40
		1,42	1,33	1,26	1,20	1,15	1,10	1,02	0,99	0,96	0,90
dual span	I, II, III	40	40	40	40	40	40	40	40	40	40
		1,42	1,33	1,26	1,20	1,15	1,10	1,02	0,99	0,96	0,90
multiple span	I, II, III	40	40	40	40	40	40	40	40	40	40
		1,42	1,33	1,26	1,20	1,15	1,10	1,02	0,99	0,96	0,90
		60	60	62	65	67	69	73	75	77	80

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	4,56	4,56	4,40	3,94	3,56	3,26	3,02	2,82	2,43	2,15
dual span	I, II, III	5,90	4,99	4,40	3,94	3,56	3,26	3,02	2,82	2,43	2,15
multiple span	I, II, III	6,56	4,99	4,40	3,94	3,56	3,26	3,02	2,82	2,43	2,15

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	1,94	1,77	1,63	1,52	1,43	1,35	1,28	1,22	1,12	0,98
dual span	I, II, III	1,94	1,77	1,63	1,52	1,43	1,35	1,28	1,22	1,12	0,98
multiple span	I, II, III	1,94	1,77	1,63	1,52	1,43	1,35	1,28	1,22	1,12	0,98

Subject to changes · As of 12/20

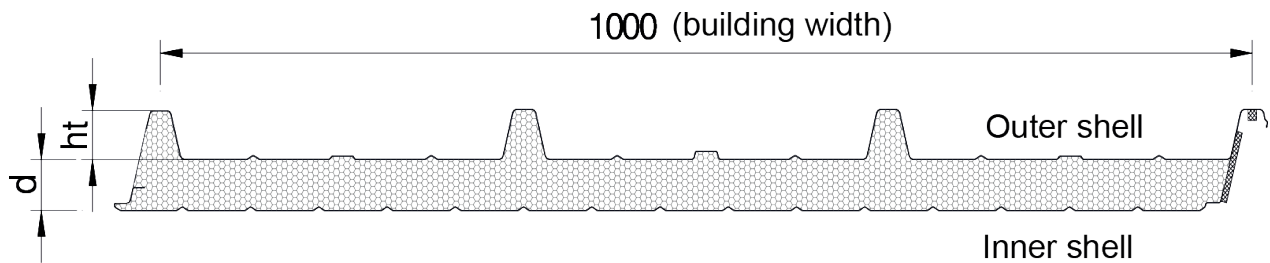


Span table 02-04

G4 (T/S), d = 40 mm

$t_N = 0,60 / 0,45$ mm, S320GD

Max. valid supporting widths stated in the following are attested according to approval Z-10.49-516 of December 06, 2019 in accordance with EN 14509. Instructions for the application of the table can be gathered from the front page.



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	40	40	40	40	40	40	40	40	40	40	40
		4,74	3,70	3,36	3,09	2,86	2,67	2,29	2,02	1,82	1,66	
dual span	I, II, III	40	40	40	40	40	40	40	40	40	40	
		4,88	3,24	2,99	2,79	2,62	2,48	2,21	2,00	1,82	1,66	
multiple span	I, II, III	40	40	40	40	40	40	40	40	40	40	
		5,61	3,70	3,36	3,09	2,86	2,67	2,29	2,02	1,82	1,66	
		60	60	60	60	60	60	60	60	60	60	

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	40	40	40	40	40	40	40	40	40	40	42
		1,54	1,43	1,35	1,28	1,21	1,16	1,07	1,03	1,00	0,94	
dual span	I, II, III	40	40	40	40	40	40	40	40	40	40	42
		1,54	1,43	1,35	1,28	1,21	1,16	1,07	1,03	1,00	0,94	
multiple span	I, II, III	40	40	40	40	40	40	40	40	40	40	42
		1,54	1,43	1,35	1,28	1,21	1,16	1,07	1,03	1,00	0,94	
		63	65	67	69	71	73	76	78	80	83	

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	5,20	5,20	5,11	4,62	4,25	3,96	3,70	3,45	2,97	2,61
dual span	I, II, III	6,94	5,82	5,11	4,60	4,07	3,37	3,37	3,12	2,67	2,36
multiple span	I, II, III	7,46	5,82	5,11	4,62	4,25	3,70	3,70	3,45	2,97	2,61

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	2,33	2,11	1,93	1,78	1,66	1,55	1,46	1,38	1,25	1,06
dual span	I, II, III	2,14	1,96	1,82	1,71	1,62	1,54	1,46	1,38	1,25	1,06
multiple span	I, II, III	2,33	2,11	1,93	1,78	1,66	1,55	1,46	1,38	1,25	1,06

Subject to changes · As of 12/20

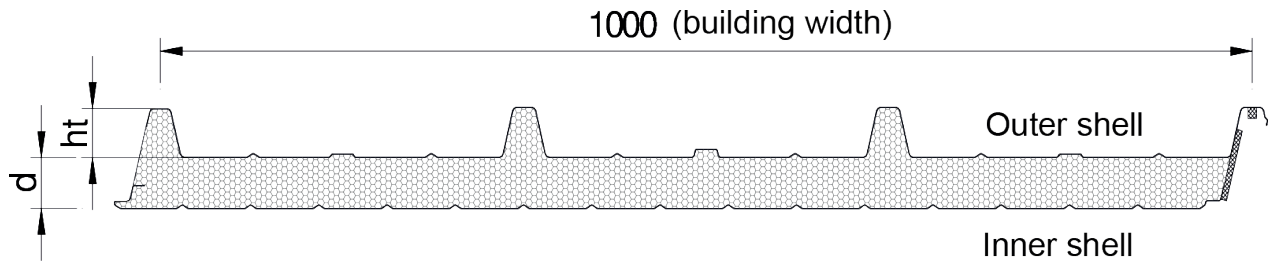


Span table 02-06

G4 (T/S), d = 60 mm

$t_N = 0,60 / 0,45$ mm, S320GD

Max. valid supporting widths stated in the following are attested according to approval Z-10.49-516 of December 06, 2019 in accordance with EN 14509. Instructions for the application of the table can be gathered from the front page.



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	40	40	40	40	40	40	40	40	40	40	40
		5,91	5,01	4,56	4,18	3,86	3,58	3,01	2,59	2,27	2,03	
dual span	I, II, III	40	40	40	40	40	40	40	40	40	40	
		5,37	3,50	3,22	2,99	2,80	2,64	2,33	2,10	1,93	1,80	
multiple span	I, II, III	40	40	40	40	40	40	40	40	40	40	
		6,15	3,98	3,66	3,40	3,18	2,99	2,64	2,38	2,18	2,02	
		60	60	60	60	60	60	60	60	62	66	
		60	60	60	60	60	60	62	67	71	74	

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	40	40	40	40	40	41	42	43	44	45
		1,84	1,69	1,56	1,46	1,38	1,30	1,18	1,13	1,09	1,01
dual span	I, II, III	40	40	40	40	40	41	42	43	44	45
		1,68	1,59	1,51	1,44	1,38	1,30	1,18	1,13	1,09	1,01
multiple span	I, II, III	40	40	40	40	40	41	42	43	44	45
		1,84	1,69	1,56	1,46	1,38	1,30	1,18	1,13	1,09	1,01
		69	72	75	78	81	82	84	86	87	90
		76	77	78	79	81	82	84	86	87	90

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	6,48	6,48	6,06	5,45	5,01	4,65	4,37	4,13	3,68	3,36
dual span	I, II, III	7,44	6,93	6,06	5,45	4,78	4,28	3,89	3,58	3,02	2,64
multiple span	I, II, III	9,17	6,93	6,06	5,45	5,01	4,65	4,37	4,13	3,61	3,13

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	3,12	2,92	2,70	2,48	2,29	2,12	1,97	1,84	1,62	1,32
dual span	I, II, III	2,37	2,16	2,00	1,87	1,76	1,66	1,58	1,51	1,40	1,22
multiple span	I, II, III	2,78	2,52	2,31	2,14	2,00	1,89	1,79	1,70	1,56	1,32

Subject to changes · As of 12/20

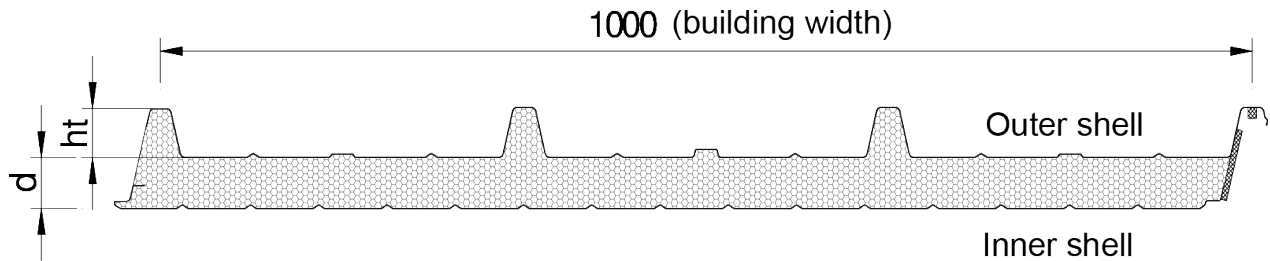


Span table 02-08

G4 (T/S), d = 80 mm

$t_N = 0,60 / 0,45$ mm, S320GD

Max. valid supporting widths stated in the following are attested according to approval Z-10.49-516 of December 06, 2019 in accordance with EN 14509. Instructions for the application of the table can be gathered from the front page.



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	40	40	40	40	43	43	45	45	45	45
		6,99	6,22	5,68	5,22	4,82	4,47	3,75	3,19	2,76	2,42
dual span	I, II, III	40	40	40	40	40	40	40	40	40	40
		5,67	3,66	3,36	3,12	2,92	2,74	2,42	2,18	1,99	1,85
multiple span	I, II, III	40	40	40	40	40	40	40	40	40	40
		6,46	4,15	3,80	3,52	3,29	3,09	2,71	2,44	2,23	2,07
		60	60	60	60	60	60	64	69	72	76

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	44	44	44	44	45	45	46	46	47	48
		2,15	1,94	1,60	1,47	1,52	1,43	1,28	1,22	1,16	1,08
dual span	I, II, III	40	40	40	40	42	43	45	46	47	48
		1,73	1,63	1,55	1,48	1,42	1,36	1,27	1,22	1,16	1,08
multiple span	I, II, III	40	41	43	44	45	45	46	46	47	48
		1,93	1,82	1,73	1,63	1,52	1,43	1,28	1,22	1,16	1,08
		80	83	86	88	89	90	92	93	93	96

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	7,66	7,66	6,92	6,22	5,70	5,29	4,96	4,69	4,17	3,79
dual span	I, II, III	8,06	7,93	6,92	6,15	5,34	4,75	4,29	3,93	3,29	2,86
multiple span	I, II, III	10,54	7,93	6,92	6,22	5,70	5,29	4,96	4,69	3,92	3,37

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	3,51	3,28	3,10	2,94	2,81	2,70	2,54	2,36	2,07	1,62
dual span	I, II, III	2,56	2,33	2,15	2,00	1,88	1,77	1,68	1,60	1,47	1,28
multiple span	I, II, III	2,98	2,68	2,45	2,27	2,12	1,99	1,88	1,78	1,63	1,41

Subject to changes · As of 12/20

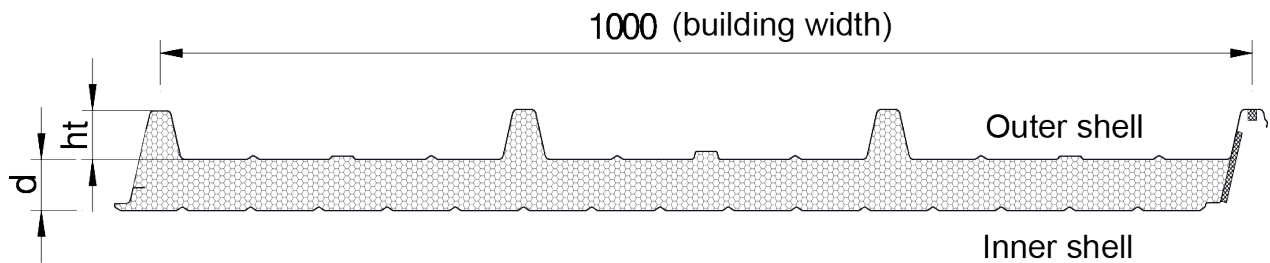


Span table 02-10

G4 (T/S), d = 100 mm

$t_N = 0,60 / 0,45$ mm, S320GD

Max. valid supporting widths stated in the following are attested according to approval Z-10.49-516 of December 06, 2019 in accordance with EN 14509. Instructions for the application of the table can be gathered from the front page.



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	40	46	49	51	53	54	56	57	57	56
		8,02	7,29	6,86	6,34	5,89	5,50	4,68	4,02	3,48	3,04
dual span	I, II, III	40	40	40	40	40	40	40	40	40	40
		6,02	3,87	3,55	3,28	3,07	2,88	2,53	2,27	2,07	1,92
multiple span	I, II, III	40	40	40	40	40	40	40	40	40	40
		6,83	4,36	3,99	3,69	3,44	3,23	2,82	2,53	2,30	2,13
		60	60	60	60	60	63	68	72	75	79

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	55	54	53	52	52	52	51	52	52	52
		2,67	2,37	2,13	1,93	1,77	1,64	1,43	1,36	1,28	1,17
dual span	I, II, III	40	40	40	41	43	44	47	48	49	51
		1,79	1,68	1,60	1,52	1,45	1,39	1,30	1,25	1,21	1,15
multiple span	I, II, III	41	43	44	46	47	49	51	52	52	52
		1,99	1,87	1,77	1,68	1,61	1,54	1,43	1,36	1,28	1,17
		74	77	80	83	85	88	93	95	97	103
		82	85	89	91	95	97	103	104	103	104

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	8,76	8,76	7,72	6,92	6,33	5,87	5,50	5,19	4,61	4,19
dual span	I, II, III	8,52	8,52	7,71	6,92	5,98	5,28	4,75	4,34	3,60	3,12
multiple span	I, II, III	11,12	8,88	7,71	6,92	6,33	5,87	5,50	5,19	4,30	3,67

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	3,87	3,62	3,41	3,23	3,08	2,96	2,84	2,73	2,51	2,11
dual span	I, II, III	2,78	2,52	2,31	2,15	2,01	1,89	1,79	1,71	1,56	1,35
multiple span	I, II, III	3,23	2,89	2,63	2,42	2,26	2,11	1,99	1,89	1,72	1,48

Subject to changes · As of 12/20

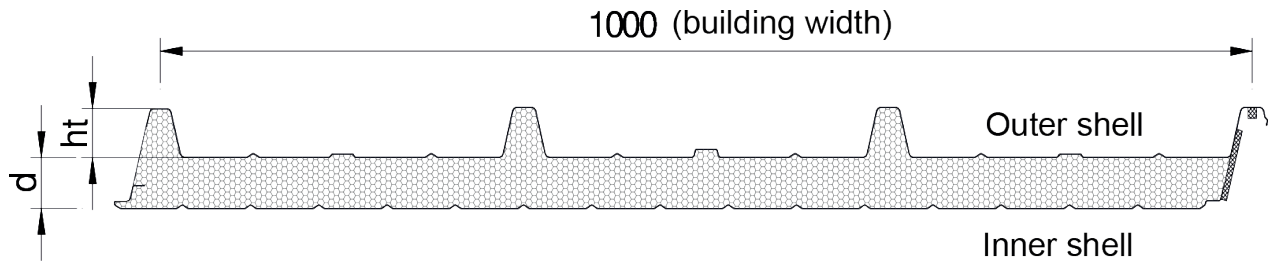


Span table 02-12

G4 (T/S), d = 120 mm

$t_N = 0,60 / 0,45$ mm, S320GD

Max. valid supporting widths stated in the following are attested according to approval Z-10.49-516 of December 06, 2019 in accordance with EN 14509. Instructions for the application of the table can be gathered from the front page.



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	40	53	59	62	64	66	70	73	75	76
		9,07	8,28	8,09	7,61	7,13	6,70	5,84	5,15	4,58	4,10
dual span	I, II, III	40	40	40	40	40	40	40	40	40	40
		6,61	4,24	3,88	3,58	3,34	3,13	2,72	2,43	2,21	2,04
multiple span	I, II, III	40	40	40	40	40	40	40	40	40	42
		7,49	4,77	4,35	4,01	3,73	3,49	3,03	2,70	2,45	2,25
		60	60	60	60	60	62	65	69	72	76
		60	61	63	65	67	69	73	77	80	84

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	76	76	75	73	72	70	67	66	65	63
		3,68	3,31	2,98	2,69	2,44	2,22	1,86	1,73	1,61	1,42
dual span	I, II, III	40	41	42	43	45	46	48	50	51	53
		1,90	1,78	1,68	1,59	1,52	1,45	1,34	1,30	1,26	1,18
multiple span	I, II, III	43	45	46	48	49	51	53	55	56	58
		2,09	1,96	1,85	1,76	1,68	1,60	1,48	1,43	1,39	1,30
		79	82	84	87	89	92	96	99	102	105
		87	90	93	96	99	101	106	109	112	116

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	9,87	9,87	8,68	7,76	7,09	6,57	6,15	5,80	5,14	4,67
dual span	I, II, III	9,47	9,47	8,67	7,76	6,89	6,06	5,43	4,93	4,06	3,49
multiple span	I, II, III	12,38	10,00	8,67	7,76	7,09	6,57	6,15	5,80	4,90	4,16

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	4,30	4,02	3,78	3,59	3,42	3,27	3,14	3,03	2,83	2,54
dual span	I, II, III	3,09	2,78	2,55	2,36	2,20	2,07	1,96	1,86	1,70	1,46
multiple span	I, II, III	3,63	3,24	2,93	2,69	2,49	2,32	2,18	2,06	1,87	1,59

Subject to changes · As of 12/20

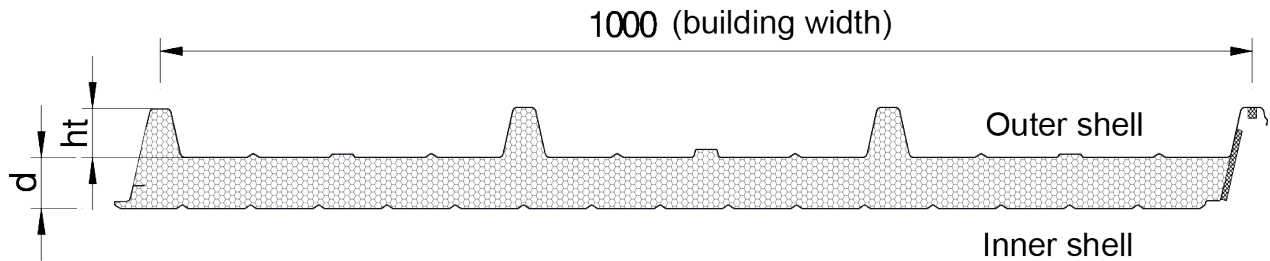


Span table 02-15

G4 (T/S), d = 150 mm

$t_N = 0,60 / 0,45$ mm, S320GD

Max. valid supporting widths stated in the following are attested according to approval Z-10.49-516 of December 06, 2019 in accordance with EN 14509. Instructions for the application of the table can be gathered from the front page.



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	40	41	46	48	50	52	56	58	61	62
		10,43	9,55	9,34	8,83	8,30	7,84	6,88	6,13	5,52	4,99
dual span	I, II, III	40	40	40	40	40	40	40	40	40	40
		7,05	4,53	4,14	3,82	3,56	3,34	2,90	2,58	2,34	2,15
multiple span	I, II, III	40	40	40	40	40	40	40	40	40	40
		7,96	5,08	4,63	4,26	3,96	3,70	3,20	2,85	2,57	2,36

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	63	63	63	63	62	60	57	56	54	51
		4,54	4,13	3,77	3,44	3,14	2,86	2,38	2,18	2,00	1,71
dual span	I, II, III	40	40	40	40	40	40	40	40	40	40
		2,00	1,87	1,76	1,66	1,58	1,52	1,40	1,35	1,30	1,22
multiple span	I, II, III	40	40	40	40	40	40	40	40	40	40
		2,19	2,04	1,92	1,82	1,74	1,66	1,53	1,48	1,43	1,34

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	11,31	11,31	10,11	9,03	8,24	7,62	7,13	6,72	5,95	5,39
dual span	I, II, III	11,09	11,09	10,11	8,88	7,56	6,61	5,89	5,33	4,36	3,73
multiple span	I, II, III	13,47	11,70	10,11	9,03	8,24	7,62	7,13	6,53	5,28	4,46

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	4,97	4,63	4,36	4,13	3,93	3,76	3,61	3,48	3,25	2,91
dual span	I, II, III	3,29	2,96	2,71	2,50	2,33	2,19	2,07	1,96	1,78	1,52
multiple span	I, II, III	3,87	3,44	3,11	2,84	2,62	2,44	2,29	2,16	1,95	1,65