

General notes on span tables for wall panels

Note the following:

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

Example:

From wind pressure table:

40
5,05
60

- end support width necessary (mm)
- valid supporting width (m)
- intermediate support width necessary (mm)

From wind suction table:

4,73

- valid supporting width (m)

**valid supporting
width
= 4,73 m**

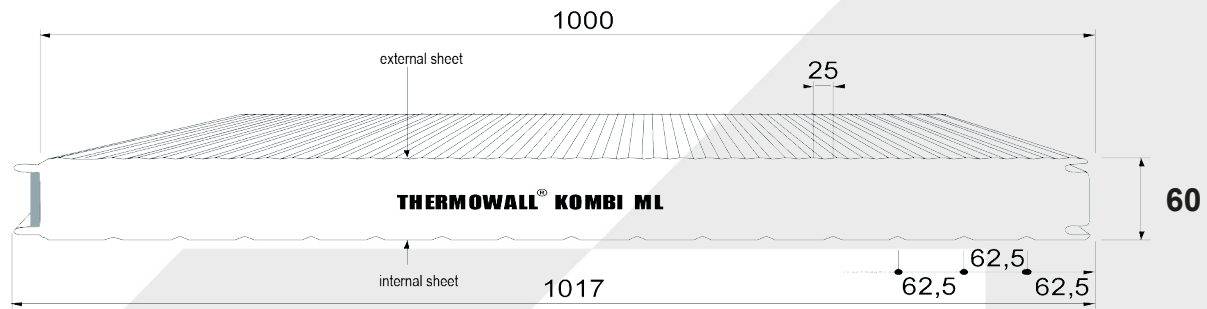
Span Table 25-06

As of 11 / 2018

Thermowall-Kombi ML (SU1/S) 60 mm

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

Max. valid supporting widths stated in the following are calculated according to approval Z-10.49-516 with additions from 23rd June 2011 in accordance with EN 14509. Instructions for the application of the table can be gathered from the front page.



Wind Pressure Loads

Stat. System	Colour Group	Characteristic Wind Pressure Load in kN / m ²										
		0,25	0,30	0,40	0,50	0,60	0,80	1,00	1,25	1,50	1,75	2,00
single span	I, II, III	40	40	40	40	40	40	40	42	46	49	53
		6,68	6,42	5,98	5,57	5,25	4,76	4,29	3,84	3,51	3,25	3,04
dual span	I, II, III	40	40	40	40	40	40	40	42	46	50	
		5,98	5,58	5,00	4,62	4,33	3,92	3,64	3,38	3,19	3,04	
		60	60	60	60	60	60	63	74	83	93	101
multiple span	I, II, III	40	40	40	40	40	40	40	45	49	53	
		7,86	7,21	6,30	5,68	5,21	4,55	4,11	3,71	3,42	3,20	
		60	60	60	60	60	63	72	81	89	97	105

Wind Suction Loads

Stat. System	Colour Group	Characteristic Wind Suction Load in kN / m ²										
		0,25	0,30	0,40	0,50	0,60	0,80	1,00	1,25	1,50	1,75	2,00
single span	I, II, III	5,66	5,49	5,22	4,99	4,73	4,09	3,66	3,28	2,99	2,77	2,59
dual span	I, II	7,32	6,69	5,79	5,18	4,73	4,09	3,66	3,28	2,99	2,77	2,59
	III	5,39	5,08	4,63	4,32	4,09	3,75	3,51	3,28	2,99	2,77	2,59
multiple span	I, II	7,32	6,69	5,79	5,18	4,73	4,09	3,66	3,28	2,99	2,77	2,59
	III	7,32	6,69	5,79	5,18	4,73	4,09	3,66	3,28	2,99	2,77	2,59

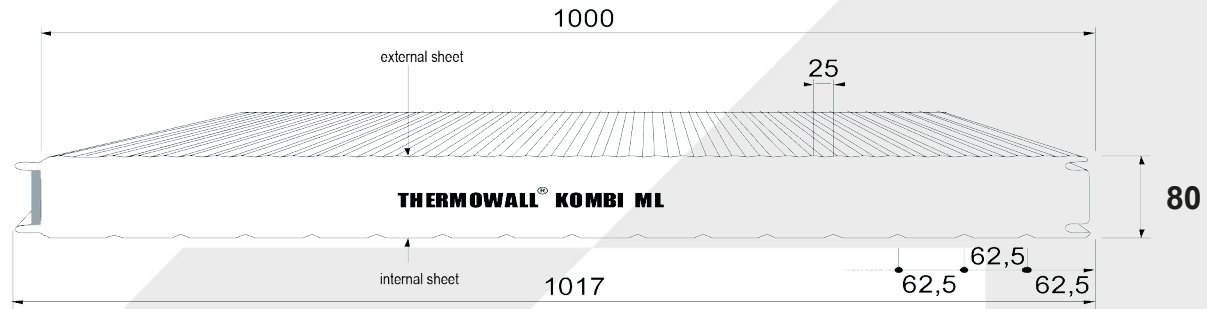
Span Table 25-08

As of 11 / 2018

Thermowall-Kombi ML (SU1/S) 80 mm

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

Max. valid supporting widths stated in the following are calculated according to approval Z-10.49-516 with additions from 23rd June 2011 in accordance with EN 14509. Instructions for the application of the table can be gathered from the front page.



Wind Pressure Loads

Stat. System	Colour Group	Characteristic Wind Pressure Load in kN / m ²										
		0,25	0,30	0,40	0,50	0,60	0,80	1,00	1,25	1,50	1,75	2,00
single span	I, II, III	40	40	40	40	40	40	43	48	53	57	61
		8,46	8,09	7,40	6,87	6,42	5,56	4,97	4,45	4,06	3,76	3,52
dual span	I, II, III	40	40	40	40	40	40	40	43	49	54	59
		7,00	6,53	5,87	5,42	5,09	4,61	4,28	3,98	3,76	3,56	3,40
		60	60	60	60	60	64	74	87	98	108	118
multiple span	I, II, III	40	40	40	40	40	40	42	47	52	57	61
		9,13	8,37	7,32	6,59	6,05	5,29	4,78	4,32	3,99	3,73	3,52
		60	60	60	60	63	74	83	94	104	114	122

Wind Suction Loads

Stat. System	Colour Group	Characteristic Wind Suction Load in kN / m ²										
		0,25	0,30	0,40	0,50	0,60	0,80	1,00	1,25	1,50	1,75	2,00
single span	I, II, III	8,46	7,74	6,70	6,00	5,47	4,74	4,24	3,79	3,46	3,20	3,00
dual span	I, II	8,48	7,74	6,70	6,00	5,47	4,74	4,24	3,79	3,46	3,20	3,00
	III	6,35	5,99	5,47	5,10	4,83	4,43	4,15	3,79	3,46	3,20	3,00
multiple span	I, II	8,48	7,74	6,70	6,00	5,47	4,74	4,24	3,79	3,46	3,20	3,00
	III	8,48	7,74	6,70	6,00	5,47	4,74	4,24	3,79	3,46	3,20	3,00

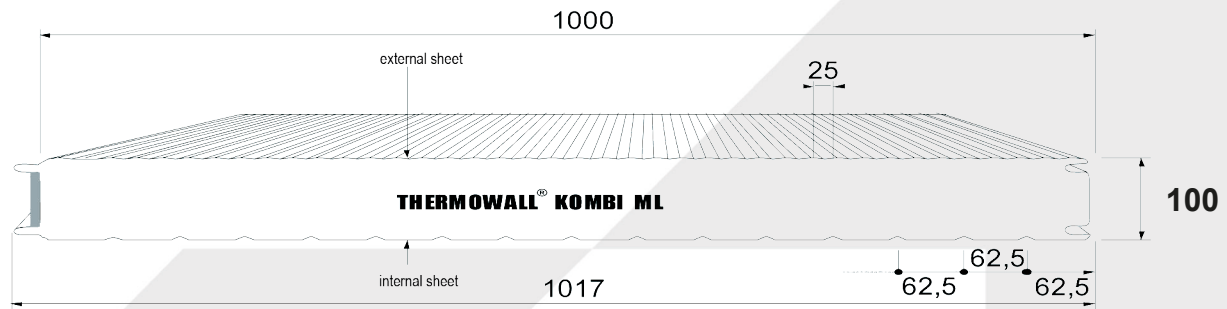
Span Table 25-10

As of 11 / 2018

Thermowall-Kombi ML (SU1/S) 100 mm

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

Max. valid supporting widths stated in the following are calculated according to approval Z-10.49-516 with additions from 23rd June 2011 in accordance with EN 14509. Instructions for the application of the table can be gathered from the front page.



Wind Pressure Loads

Stat. System	Colour Group	Characteristic Wind Pressure Load in kN / m ²										
		0,25	0,30	0,40	0,50	0,60	0,80	1,00	1,25	1,50	1,75	2,00
single span	I, II, III	40	40	40	40	40	43	48	54	59	64	68
		10,11	9,58	8,74	7,84	7,19	6,22	5,57	4,98	4,54	4,21	3,94
dual span	I, II, III	40	40	40	40	40	40	42	49	55	61	66
		7,84	7,31	6,58	6,07	5,70	5,16	4,80	4,47	4,22	3,99	3,80
		60	60	60	60	60	72	84	97	110	121	132
multiple span	I, II, III	40	40	40	40	40	41	47	53	58	64	68
		10,22	9,37	8,19	7,37	6,77	5,92	5,35	4,84	4,46	4,17	3,94
		60	60	60	64	61	83	93	105	117	127	136

Wind Suction Loads

Stat. System	Colour Group	Characteristic Wind Suction Load in kN / m ²										
		0,25	0,30	0,40	0,50	0,60	0,80	1,00	1,25	1,50	1,75	2,00
single span	I, II, III	8,81	8,52	7,50	6,71	6,13	5,67	4,75	4,25	3,88	3,59	3,36
dual span	I, II	9,49	8,67	7,50	6,71	6,13	5,67	4,75	4,25	3,88	3,59	3,36
	III	7,11	6,70	6,12	5,71	5,41	4,96	4,65	4,25	3,88	3,59	3,36
multiple span	I, II	9,49	8,67	7,50	6,71	6,13	5,67	4,75	4,25	3,88	3,59	3,36
	III	9,49	8,67	7,50	6,71	6,13	5,31	4,75	4,25	3,88	3,59	3,36

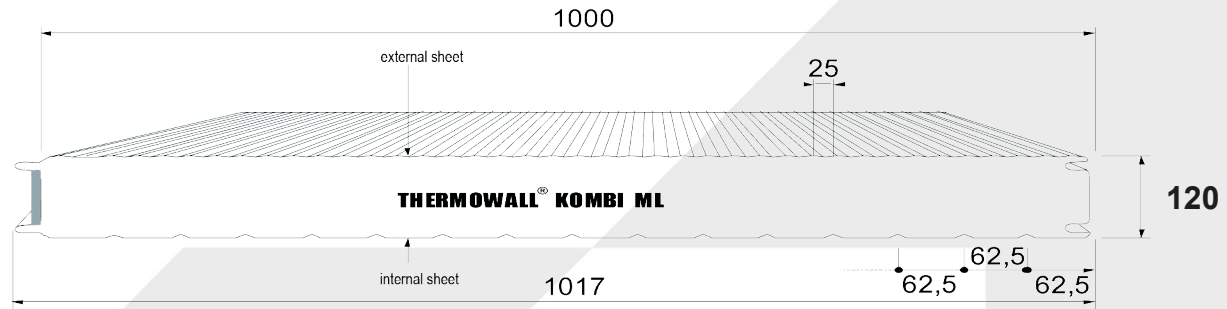
Span Table 25-12

As of 11 / 2018

Thermowall-Kombi ML (SU1/S) 120 mm

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

Max. valid supporting widths stated in the following are calculated according to approval Z-10.49-516 with additions from 23rd June 2011 in accordance with EN 14509. Instructions for the application of the table can be gathered from the front page.



Wind Pressure Loads

Stat. System	Colour Group	Characteristic Wind Pressure Load in kN / m ²										
		0,25	0,30	0,40	0,50	0,60	0,80	1,00	1,25	1,50	1,75	2,00
single span	I, II, III	40	40	40	40	41	47	53	59	65	70	75
		11,66	11,02	9,65	8,63	7,88	6,82	6,10	5,46	4,98	4,61	4,32
dual span	I, II, III	40	40	40	40	40	41	47	54	61	67	67
		9,15	8,49	7,57	6,95	6,49	5,84	5,39	4,99	4,68	4,42	4,20
		60	60	60	60	68	81	94	109	122	135	146
multiple span	I, II, III	40	40	40	40	40	47	53	59	65	70	75
		11,72	10,72	9,33	8,38	7,68	6,71	6,05	5,46	4,98	4,61	4,32
		60	60	65	73	80	93	105	119	130	140	150

Wind Suction Loads

Stat. System	Colour Group	Characteristic Wind Suction Load in kN / m ²										
		0,25	0,30	0,40	0,50	0,60	0,80	1,00	1,25	1,50	1,75	2,00
single span	I, II, III	10,35	9,73	8,43	7,54	6,88	5,96	5,33	4,77	4,35	4,03	3,77
dual span	I, II	10,66	9,73	8,43	7,54	6,88	5,96	5,33	4,77	4,35	4,03	3,77
	III	7,58	7,14	6,51	6,07	5,74	5,26	4,93	4,62	4,35	4,03	3,77
multiple span	I, II	10,66	9,73	8,43	7,54	6,88	5,96	5,33	4,77	4,35	4,03	3,77
	III	10,66	9,73	8,43	7,54	6,88	5,96	5,33	4,77	4,35	4,03	3,77

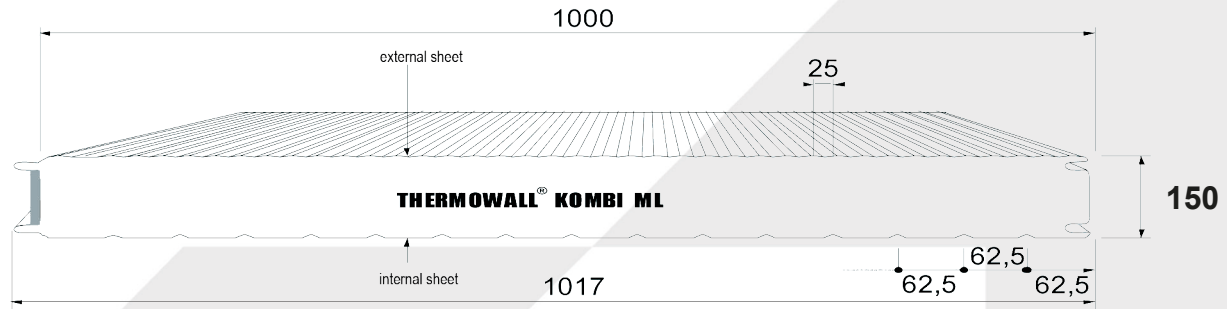
Span Table 25-15

As of 11 / 2018

Thermowall-Kombi ML (SU1/S) 150 mm

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

Max. valid supporting widths stated in the following are calculated according to approval Z-10.49-516 with additions from 23rd June 2011 in accordance with EN 14509. Instructions for the application of the table can be gathered from the front page.



Wind Pressure Loads

Stat. System	Colour Group	Characteristic Wind Pressure Load in kN / m ²										
		0,25	0,30	0,40	0,50	0,60	0,80	1,00	1,25	1,50	1,75	2,00
single span	I, II, III	40	40	40	40	40	40	40	42	46	49	53
		13,66	12,47	10,80	9,66	8,82	7,64	6,83	6,11	5,58	5,16	4,83
dual span	I, II, III	40	40	40	40	40	40	40	40	45	49	53
		11,25	10,41	9,22	8,42	7,83	7,01	6,42	5,86	5,46	5,14	4,83
		60	60	60	60	60	61	70	80	89	98	105
multiple span	I, II, III	40	40	40	40	40	40	40	42	46	49	53
		13,66	12,47	10,79	9,66	8,82	7,64	6,83	6,11	5,58	5,16	4,83
		60	60	60	60	60	66	74	83	91	98	105

Wind Suction Loads

Stat. System	Colour Group	Characteristic Wind Suction Load in kN / m ²										
		0,25	0,30	0,40	0,50	0,60	0,80	1,00	1,25	1,50	1,75	2,00
single span	I, II, III	12,38	11,31	9,79	8,76	7,99	6,92	6,19	5,54	5,06	4,68	4,38
dual span	I, II	12,38	11,31	9,79	8,76	7,99	6,92	6,19	5,54	5,06	4,68	4,38
	III	8,48	7,99	7,28	6,79	6,42	5,89	5,52	5,17	4,91	4,68	4,38
multiple span	I, II	12,38	11,31	9,79	8,76	7,99	6,92	6,19	5,54	5,06	4,68	4,38
	III	12,10	11,11	9,73	8,76	7,99	6,92	6,19	5,54	5,06	4,68	4,38