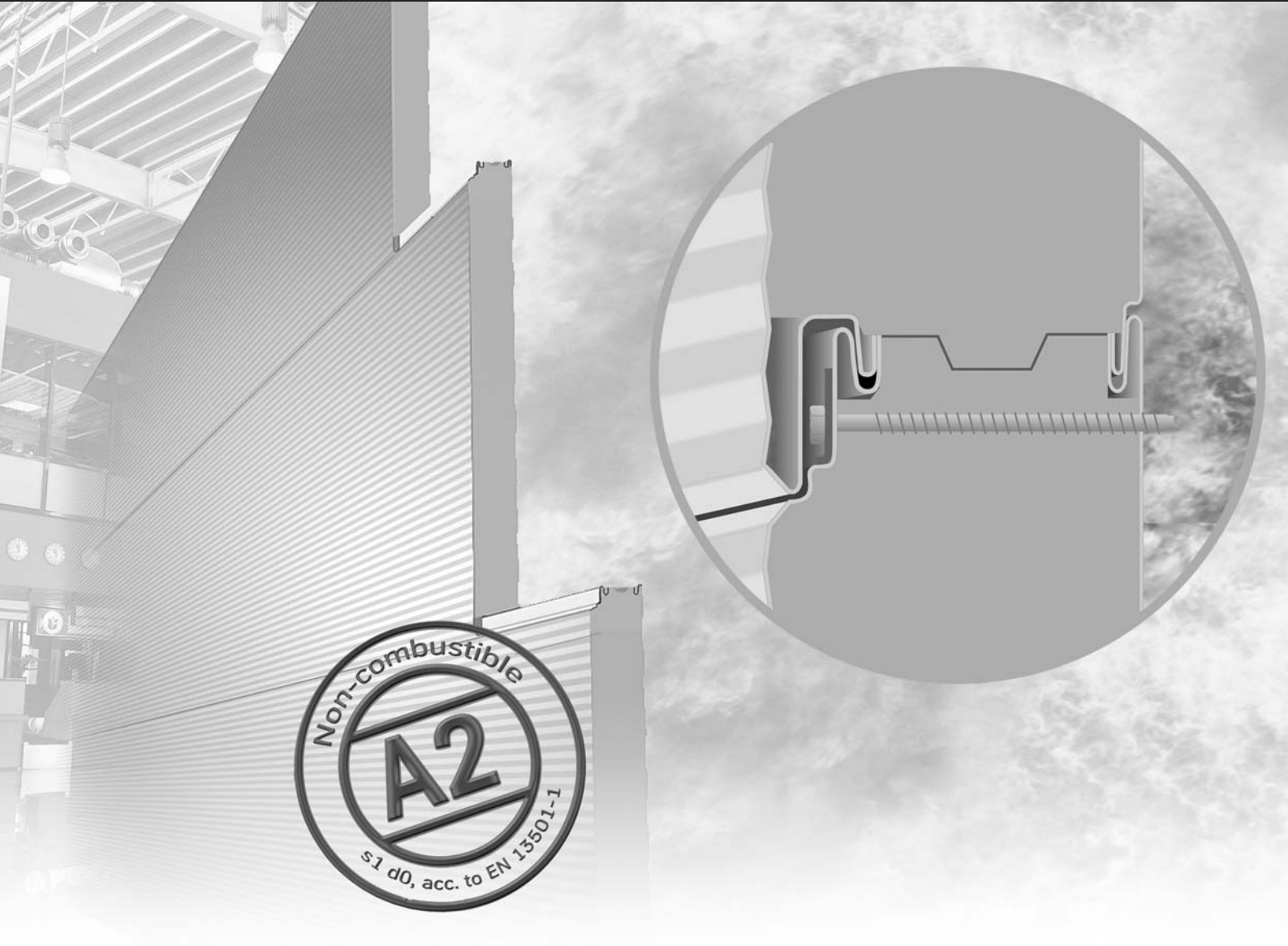


# Load tables Hoesch isorock® vario

## Info 2.3.4 GB

ThyssenKrupp Bausysteme GmbH, Hammerstrasse 11, D-57223 Kreuztal,  
Phone: +49 / 27 32 / 599 1 221, Fax: +49 / 27 32 / 599 1 219, export. tks-bau@thyssenkrupp.com, www.tks-bau.com



A company  
of ThyssenKrupp  
Steel

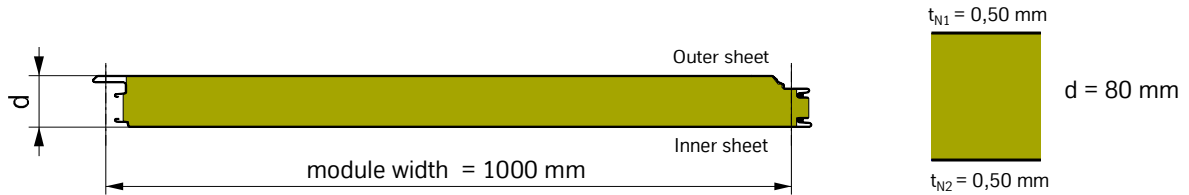
**ThyssenKrupp Bausysteme**



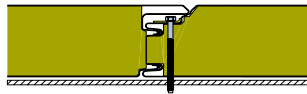
**ThyssenKrupp**

## Load tables "permissible q, wind" for preliminary design

- horizontal installation -

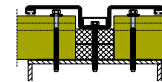


### Type of fixing



### End support:

2 screws with washer  $d=16$  mm  
characteristic tensile force  $F_z, k(b_A) = 4,0$  kN



### Intermediate support:

screw with load distributor  
characteristic tensile force  $F_z, k(b_B) = 3,3$  kN

The connection load distributor / supporting structure must be calculated separately!

Line  $b_A$ : Minimum end support width  $b_A$  in [mm] for the relevant permissible wind-pressure load

Line  $b_B$ : Minimum intermediate support width  $b_B$  in [mm] for the relevant permissible wind-pressure load

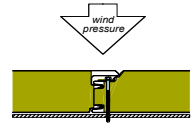
Lines CG I Permissible wind load in  $[kN/m^2]$  with due consideration of the deflection restriction  $\max f = L/100$ . The following CG II, CG III: temperature differences between the cover sheets have been taken into consideration for secondary loads in the cover sheets, in accordance with the general approval issued by the building inspection authorities:

Season	Color Group	$t_{\text{outdoor}} - t_{\text{indoor}}$
summer	I / II / III	+30 / +40 / +55 °C
winter	all	-40 °C

The tables do not replace the structural analysis required for execution of the constructional work. The permissible wind loads in specified  $[kN/m^2]$  have been determined in accordance with the provisions of official approval no. Z-10.4-235 issued by the German building inspection authorities.

Please note the maximum length supplied, especially in the case of multi-span girders.

## Load tables for wind pressure



**Single-span girder, permissible wind pressure load perm.  $w_p$  [kN/m<sup>2</sup>]**

Span L[m]	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	5.25	5.50	5.75	6.00	
$b_A = 60$ [mm]	60	60	60	60	60	60	60	60	60	60	60	57	53	50	47	45	43	41	40	40	40	
<b>CG I-III</b>	3.24	2.60	2.16	1.85	1.62	1.44	1.30	1.18	1.08	1.00	0.93	0.82	0.72	0.64	0.57	0.51	0.46	0.42	0.38	0.35	0.32	
$b_A \leq 80$ [mm]	66	66	66	66	66	66	66	66	66	66	61	57	53	50	47	45	43	41	40	40	40	
<b>CG I-III</b>	3.56	2.85	2.38	2.04	1.78	1.58	1.42	1.30	1.19	1.09	0.94	0.82	0.72	0.64	0.57	0.51	0.46	0.42	0.38	0.35	0.32	

**Two-span girder, permissible wind pressure load perm.  $w_p$  [kN/m<sup>2</sup>]**

Span L[m]	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	5.25	5.50	5.75	6.00	
$b_A = 60$ [mm]	40	40	40	40	40	40	40	40														
<b>CG I</b>	0.55	0.38	0.31	0.29	0.29	0.29	0.29	0.29														
$b_B = 60$ [mm]	60	60	60	60	60	60	60	60														
$b_A \leq 60$ [mm]	40	40	40	40	40	40	40	40														
<b>CG I</b>	2.13	1.61	1.32	1.14	1.02	0.93	0.56	0.34														
$b_B \leq 100$ [mm]	100	100	100	100	100	100	79	64														
$b_A \leq 80$ [mm]	66	66	64	64	60	40	40	40														
<b>CG I</b>	3.56	2.83	2.32	1.98	1.61	0.93	0.56	0.34														
$b_B \leq 140$ [mm]	140	140	140	140	132	100	79	64														

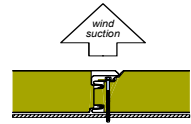
**Three-span girder, permissible wind pressure load perm.  $w_p$  [kN/m<sup>2</sup>]**

Span L[m]	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	5.25	5.50	5.75	6.00	
$b_A = 60$ [mm]	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40						
<b>CG I-II</b>	1.22	1.02	0.91	0.82	0.76	0.70	0.65	0.59	0.52	0.41	0.34	0.28	0.24	0.21	0.18	0.13						
$b_B = 60$ [mm]	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60						
$b_A \leq 60$ [mm]	50	50	50	50	50	50	40	40	40	40	40	40	40	40	40	40						
<b>CG I-II</b>	2.70	2.16	1.80	1.54	1.35	1.19	0.87	0.66	0.52	0.41	0.34	0.28	0.24	0.21	0.18	0.13						
$b_B \leq 100$ [mm]	100	100	100	100	100	99	80	67	60	60	60	60	60	60	60	60						
$b_A \leq 80$ [mm]	66	66	66	66	64	50	40	40	40	40	40	40	40	40	40	40						
<b>CG I-II</b>	3.56	2.85	2.37	2.04	1.72	1.19	0.87	0.66	0.52	0.41	0.34	0.28	0.24	0.21	0.18	0.13						
$b_B \leq 140$ [mm]	132	132	132	132	128	99	80	67	60	60	60	60	60	60	60	60						

**Four-span girder, permissible wind pressure load perm.  $w_p$  [kN/m<sup>2</sup>]**

Span L[m]	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	5.25	5.50	5.75	6.00	
$b_A = 60$ [mm]	40	40	40	40	40	40	40	40	40	40	40											
<b>CG I-II</b>	1.40	1.13	0.96	0.84	0.75	0.68	0.62	0.58	0.47	0.37	0.29											
$b_B = 60$ [mm]	60	60	60	60	60	60	60	60	60	60	60											
$b_A \leq 60$ [mm]	50	50	50	50	50	49	40	40	40	40	40											
<b>CG I-II</b>	2.70	2.16	1.80	1.54	1.35	1.17	0.84	0.62	0.47	0.37	0.29											
$b_B \leq 100$ [mm]	100	100	100	100	100	98	77	63	60	60	60											
$b_A \leq 80$ [mm]	66	66	66	66	64	49	40	40	40	40	40											
<b>CG I-II</b>	3.56	2.85	2.37	2.04	1.72	1.17	0.84	0.62	0.47	0.37	0.29											
$b_B \leq 140$ [mm]	132	132	132	132	127	98	77	63	60	60	60											

## Load tables for wind suction



**Single-span girder, permissible wind suction load perm.  $w_s$  [kN/m<sup>2</sup>]**

Span L[m]	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	5.25	5.50	5.75	6.00	
CG I-III	3.56	2.85	2.38	2.04	1.78	1.58	1.42	1.30	1.19	1.09	0.94	0.82	0.72	0.64	0.57	0.51	0.46	0.42	0.38	0.35	0.32	

**Two-span girder, permissible wind suction load perm.  $w_s$  [kN/m<sup>2</sup>]**

Span L[m]	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	5.25	5.50	5.75	6.00		
CG I	1.14	0.84	0.68	0.59	0.53	0.50	0.47	0.44															
CG II																							
CG III																							

**Three-span girder, permissible wind suction load perm.  $w_s$  [kN/m<sup>2</sup>]**

Span L[m]	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	5.25	5.50	5.75	6.00	
CG I	1.56	1.24	1.02	0.87	0.76	0.67	0.61	0.55	0.50	0.46	0.43	0.40	0.38	0.35	0.33	0.32	0.30	0.29	0.27	0.26	0.25	
CG II	1.34	1.11	0.97	0.87	0.76	0.67	0.61	0.55	0.50	0.46	0.38	0.31	0.26	0.22	0.19	0.16						
CG III																						

**Four-span girder, permissible wind suction load perm.  $w_s$  [kN/m<sup>2</sup>]**

Span L[m]	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	5.25	5.50	5.75	6.00	
CG I	1.57	1.24	1.03	0.87	0.76	0.67	0.60	0.54	0.50	0.46	0.42	0.39	0.37	0.35	0.33	0.31	0.29	0.28	0.27	0.25		
CG II	1.53	1.23	1.03	0.87	0.76	0.67	0.60	0.54	0.50	0.41	0.31											
CG III																						

**ThyssenKrupp Bausysteme GmbH**

Hammerstraße 11 · D-57223 Kreuztal

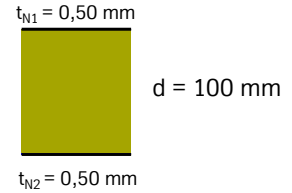
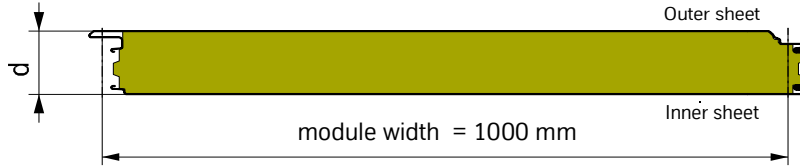
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e-mail: [export.tks-bau@thyssenkrupp.com](mailto:export.tks-bau@thyssenkrupp.com) · Internet: [www.tks-bau.com](http://www.tks-bau.com)

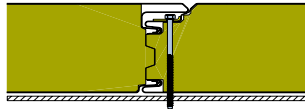


## Load tables "permissible q, wind" for preliminary design

- horizontal installation -

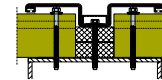


### Type of fixing



### End support:

2 screws with washer  $d=16$  mm  
characteristic tensile force  $F_{z,k}(b_A) = 4,0$  kN



### Intermediate support:

screw with load distributor  
characteristic tensile force  $F_{z,k}(b_B) = 3,4$  kN

The connection load distributor / supporting structure must be calculated separately!

Line  $b_A$ : Minimum end support width  $b_A$  in [mm] for the relevant permissible wind-pressure load  
Line  $b_B$ : Minimum intermediate support width  $b_B$  in [mm] for the relevant permissible wind-pressure load

Lines CG I Permissible wind load in  $[kN/m^2]$  with due consideration of the deflection restriction  $\max f = L/100$ . The following CG II, CG III: temperature differences between the cover sheets have been taken into consideration for secondary loads in the cover sheets, in accordance with the general approval issued by the building inspection authorities:

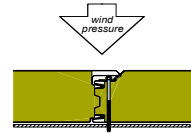
Season	Color Group	$t_{\text{outdoor}} - t_{\text{indoor}}$
summer	I / II / III	+30 / +40 / +55 °C
winter	all	-40 °C

The tables do not replace the structural analysis required for execution of the constructional work. The permissible wind loads in specified  $[kN/m^2]$  have been determined in accordance with the provisions of official approval no. Z-10.4-235 issued by the German building inspection authorities.

Please note the maximum length supplied, especially in the case of multi-span girders.

# Hoesch isorock® vario 100

## Load tables for wind pressure



### Single-span girder, permissible wind pressure load perm. $w_p$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	
$b_A = 60$ [mm]	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	56	54	51	49	47	45	
<b>CG I-III</b>	3.24	2.60	2.16	1.85	1.62	1.44	1.30	1.18	1.08	1.00	0.93	0.87	0.81	0.76	0.71	0.64	0.58	0.53	0.48	0.44	0.40	
$b_A \leq 80$ [mm]	74	74	74	74	74	74	74	74	74	74	74	71	67	63	60	56	54	51	49	47	45	
<b>CG I-III</b>	4.01	3.21	2.68	2.30	2.01	1.79	1.61	1.46	1.34	1.24	1.15	1.03	0.90	0.80	0.71	0.64	0.58	0.53	0.48	0.44	0.40	

### Two-span girder, permissible wind pressure load perm. $w_p$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	
$b_A = 60$ [mm]	40	40	40	40	40	40	40	40	40	40												
<b>CG I</b>	0.62	0.37	0.27	0.22	0.21	0.21	0.21	0.22	0.22	0.22												
$b_B = 60$ [mm]	60	60	60	60	60	60	60	60	60	60												
$b_A \leq 60$ [mm]	41	40	40	40	40	40	40	40	40	40												
<b>CG I</b>	2.22	1.62	1.29	1.09	0.96	0.86	0.80	0.74	0.49	0.32												
$b_B \leq 100$ [mm]	100	100	100	100	100	100	100	100	82	69												
$b_A \leq 80$ [mm]	70	67	64	63	63	63	54	40	40	40												
<b>CG I</b>	3.78	2.88	2.31	1.95	1.70	1.52	1.17	0.75	0.49	0.32												
$b_B \leq 140$ [mm]	140	140	140	140	140	140	125	101	82	69												

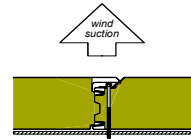
### Three-span girder, permissible wind pressure load perm. $w_p$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	
$b_A = 60$ [mm]	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	
<b>CG I-II</b>	1.17	0.94	0.82	0.74	0.69	0.64	0.60	0.56	0.54	0.50	0.46	0.40	0.34	0.29	0.25	0.21	0.19	0.17	0.15	0.13		
$b_B = 60$ [mm]	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	
$b_A \leq 60$ [mm]	50	50	50	50	50	50	50	50	42	40	40	40	40	40	40	40	40	40	40	40	40	
<b>CG I-II</b>	2.70	2.16	1.80	1.55	1.35	1.20	1.08	0.98	0.75	0.59	0.48	0.40	0.34	0.29	0.25	0.21	0.19	0.17	0.15	0.13		
$b_B \leq 100$ [mm]	100	100	100	100	100	100	100	99	83	71	63	60	60	60	60	60	60	60	60	60	60	
$b_A \leq 80$ [mm]	70	70	70	70	70	70	61	50	42	40	40	40	40	40	40	40	40	40	40	40	40	
<b>CG I-II</b>	3.78	3.03	2.52	2.16	1.89	1.68	1.32	0.98	0.75	0.59	0.48	0.40	0.34	0.29	0.25	0.21	0.19	0.17	0.15	0.13		
$b_B \leq 140$ [mm]	140	140	140	140	140	140	122	99	83	71	63	60	60	60	60	60	60	60	60	60	60	

### Four-span girder, permissible wind pressure load perm. $w_p$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	
$b_A = 60$ [mm]	42	40	40	40	40	40	40	40	40	40	40	40	40	40								
<b>CG I-II</b>	1.36	1.09	0.91	0.80	0.71	0.64	0.59	0.54	0.51	0.48	0.45	0.36	0.29	0.24								
$b_B = 60$ [mm]	60	60	60	60	60	60	60	60	60	60	60	60	60	60								
$b_A \leq 60$ [mm]	50	50	50	50	50	50	50	49	40	40	40	40	40	40								
<b>CG I-II</b>	2.70	2.16	1.80	1.54	1.35	1.20	1.08	0.97	0.73	0.56	0.45	0.36	0.29	0.24								
$b_B \leq 100$ [mm]	100	100	100	100	100	100	100	99	81	68	60	60	60	60								
$b_A \leq 80$ [mm]	68	70	70	70	70	70	61	49	40	40	40	40	40	40								
<b>CG I-II</b>	3.70	3.03	2.52	2.16	1.89	1.68	1.31	0.97	0.73	0.56	0.45	0.36	0.29	0.24								
$b_B \leq 140$ [mm]	140	140	140	140	140	140	121	99	81	68	60	60	60	60								

## Load tables for wind suction



### Single-span girder, permissible wind suction load perm. $w_s$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	
CG I-III	4.00	3.20	2.67	2.29	2.00	1.78	1.60	1.45	1.33	1.23	1.14	1.03	0.90	0.80	0.71	0.64	0.58	0.53	0.48	0.44	0.40	

### Two-span girder, permissible wind suction load perm. $w_s$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00		
CG I	1.32	0.93	0.72	0.60	0.53	0.48	0.45	0.42	0.40	0.38													
CG II																							
CG III																							

### Three-span girder, permissible wind suction load perm. $w_s$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	
CG I	1.62	1.28	1.06	0.90	0.79	0.70	0.63	0.57	0.52	0.48	0.44	0.41	0.39	0.37	0.34	0.33	0.31	0.30	0.28	0.27	0.26	
CG II	1.39	1.11	0.95	0.85	0.78	0.70	0.63	0.57	0.52	0.48	0.44	0.41	0.39	0.32	0.27	0.23	0.20	0.18	0.16	0.14		
CG III																						

### Four-span girder, permissible wind suction load perm. $w_s$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	
CG I	1.63	1.29	1.07	0.91	0.79	0.70	0.62	0.56	0.52	0.47	0.44	0.41	0.38	0.36	0.34	0.32	0.30	0.29	0.27	0.26	0.25	
CG II	1.59	1.26	1.06	0.91	0.79	0.70	0.62	0.56	0.52	0.47	0.44	0.41	0.34	0.27								
CG III																						

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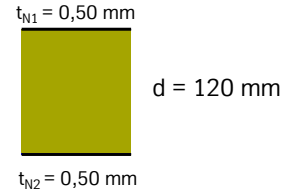
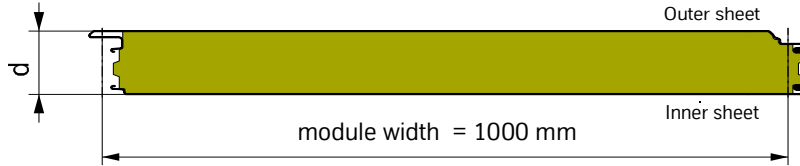
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e-mail: [export.tks-bau@thyssenkrupp.com](mailto:export.tks-bau@thyssenkrupp.com) · Internet: [www.tks-bau.com](http://www.tks-bau.com)

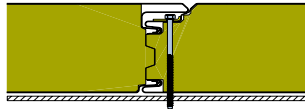


## Load tables "permissible q, wind" for preliminary design

- horizontal installation -

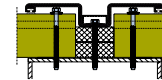


### Type of fixing



### End support:

2 screws with washer  $d=16 \text{ mm}$   
characteristic tensile force  $F_{z,k}(b_A) = 4,0 \text{ kN}$



### Intermediate support:

screw with load distributor  
characteristic tensile force  $F_{z,k}(b_B) = 3,4 \text{ kN}$

The connection load distributor / supporting structure must be calculated separately!

Line  $b_A$ : Minimum end support width  $b_A$  in [mm] for the relevant permissible wind-pressure load  
Line  $b_B$ : Minimum intermediate support width  $b_B$  in [mm] for the relevant permissible wind-pressure load

Lines CG I Permissible wind load in  $[\text{kN/m}^2]$  with due consideration of the deflection restriction  $\max f = L/100$ . The following CG II, CG III: temperature differences between the cover sheets have been taken into consideration for secondary loads in the cover sheets, in accordance with the general approval issued by the building inspection authorities:

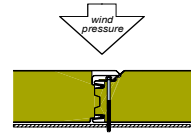
Season	Color Group	$t_{\text{outdoor}} - t_{\text{indoor}}$
summer	I / II / III	+30 / +40 / +55 °C
winter	all	-40 °C

The tables do not replace the structural analysis required for execution of the constructional work. The permissible wind loads in specified  $[\text{kN/m}^2]$  have been determined in accordance with the provisions of official approval no. Z-10.4-235 issued by the German building inspection authorities.

Please note the maximum length supplied, especially in the case of multi-span girders.

# Hoesch isorock® vario 120

## Load tables for wind pressure



### Single-span girder, permissible wind pressure load perm. $w_p$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	
$b_A = 60$ [mm]	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	58	56	54	
<b>CG I-III</b>	3.24	2.60	2.16	1.85	1.62	1.44	1.30	1.18	1.08	1.00	0.93	0.87	0.81	0.76	0.72	0.68	0.65	0.62	0.57	0.53	0.48	
$b_A \leq 80$ [mm]	79	79	79	79	79	79	79	79	79	79	79	79	79	76	71	68	64	61	58	56	54	
<b>CG I-III</b>	4.29	3.43	2.86	2.45	2.15	1.91	1.72	1.56	1.43	1.32	1.23	1.14	1.07	0.96	0.86	0.77	0.70	0.63	0.57	0.53	0.48	

### Two-span girder, permissible wind pressure load perm. $w_p$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	
$b_A = 60$ [mm]	40	40	40	40	40	40	40	40	40	40	40	40	40									
<b>CG I</b>	0.79	0.47	0.31	0.23	0.19	0.18	0.17	0.17	0.18	0.18	0.18	0.18	0.19									
$b_B = 60$ [mm]	60	60	60	60	60	60	60	60	60	60	60	60	60									
$b_A \leq 60$ [mm]	45	40	40	40	40	40	40	40	40	40	40	40	40									
<b>CG I</b>	2.42	1.74	1.35	1.11	0.95	0.84	0.77	0.71	0.66	0.63	0.47	0.33	0.23									
$b_B \leq 100$ [mm]	100	100	100	100	100	100	100	100	100	100	88	75	65									
$b_A \leq 80$ [mm]	70	70	67	64	63	63	63	63	54	40	40	40	40									
<b>CG I</b>	3.79	3.03	2.40	1.99	1.71	1.51	1.36	1.24	0.97	0.67	0.47	0.33	0.23									
$b_B \leq 140$ [mm]	140	140	140	140	140	140	140	140	125	104	88	75	65									

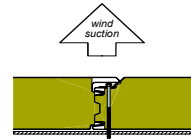
### Three-span girder, permissible wind pressure load perm. $w_p$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	
$b_A = 60$ [mm]	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
<b>CG I-II</b>	1.20	0.93	0.79	0.70	0.64	0.59	0.56	0.53	0.50	0.47	0.45	0.43	0.41	0.38	0.33	0.29	0.25	0.22	0.20	0.17	0.16	
$b_B = 60$ [mm]	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
$b_A \leq 60$ [mm]	50	50	50	50	50	50	50	50	50	50	44	40	40	40	40	40	40	40	40	40	40	40
<b>CG I-II</b>	2.70	2.16	1.80	1.55	1.35	1.20	1.08	0.98	0.90	0.83	0.68	0.55	0.46	0.39	0.33	0.29	0.25	0.22	0.20	0.17	0.16	
$b_B \leq 100$ [mm]	100	100	100	100	100	100	100	100	100	100	88	77	68	61	60	60	60	60	60	60	60	60
$b_A \leq 80$ [mm]	70	69	69	70	70	70	70	70	61	51	44	40	40	40	40	40	40	40	40	40	40	40
<b>CG I-II</b>	3.78	2.98	2.47	2.15	1.89	1.68	1.51	1.38	1.09	0.85	0.68	0.55	0.46	0.39	0.33	0.29	0.25	0.22	0.20	0.17	0.16	
$b_B \leq 140$ [mm]	140	138	137	139	140	140	140	140	121	102	88	77	68	61	60	60	60	60	60	60	60	60

### Four-span girder, permissible wind pressure load perm. $w_p$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	
$b_A = 60$ [mm]	42	41	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40				
<b>CG I-II</b>	1.39	1.09	0.91	0.78	0.69	0.62	0.57	0.53	0.49	0.46	0.43	0.41	0.39	0.36	0.30	0.25	0.21	0.19				
$b_B = 60$ [mm]	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60				
$b_A \leq 60$ [mm]	51	50	50	50	50	50	50	50	50	50	43	40	40	40	40	40	40	40				
<b>CG I-II</b>	2.70	2.16	1.80	1.54	1.35	1.20	1.08	0.98	0.90	0.83	0.66	0.53	0.43	0.36	0.30	0.25	0.21	0.19				
$b_B \leq 100$ [mm]	100	100	100	100	100	100	100	100	100	100	86	74	65	60	60	60	60	60				
$b_A \leq 80$ [mm]	64	64	66	68	70	70	70	70	61	51	43	40	40	40	40	40	40	40				
<b>CG I-II</b>	3.44	2.78	2.38	2.10	1.89	1.68	1.51	1.38	1.09	0.84	0.66	0.53	0.43	0.36	0.30	0.25	0.21	0.19				
$b_B \leq 140$ [mm]	140	140	140	140	140	140	140	140	121	101	86	74	65	60	60	60	60	60				

## Load tables for wind suction



### Single-span girder, permissible wind suction load perm. $w_s$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	
CG I-III	4.00	3.20	2.67	2.29	2.00	1.78	1.60	1.45	1.33	1.23	1.14	1.07	1.00	0.94	0.86	0.77	0.70	0.63	0.57	0.53	0.48	

### Two-span girder, permissible wind suction load perm. $w_s$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	
CG I	1.48	1.04	0.79	0.63	0.54	0.47	0.43	0.40	0.37	0.35	0.34	0.33	0.31									
CG II																						
CG III																						

### Three-span girder, permissible wind suction load perm. $w_s$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	
CG I	1.63	1.29	1.07	0.91	0.79	0.70	0.63	0.57	0.52	0.48	0.45	0.42	0.39	0.37	0.35	0.33	0.31	0.30	0.28	0.27	0.26	
CG II	1.45	1.12	0.93	0.81	0.74	0.68	0.63	0.57	0.52	0.48	0.45	0.42	0.39	0.37	0.35	0.33	0.29	0.25	0.22	0.19	0.17	
CG III																						

### Four-span girder, permissible wind suction load perm. $w_s$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	
CG I	1.64	1.30	1.08	0.92	0.80	0.70	0.63	0.57	0.52	0.48	0.44	0.41	0.39	0.36	0.34	0.32	0.31	0.29	0.28	0.26	0.25	
CG II	1.64	1.28	1.06	0.91	0.80	0.70	0.63	0.57	0.52	0.48	0.44	0.41	0.39	0.36	0.34	0.29	0.24	0.20				
CG III																						

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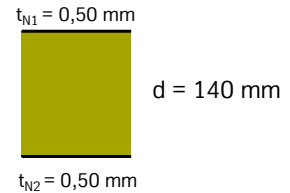
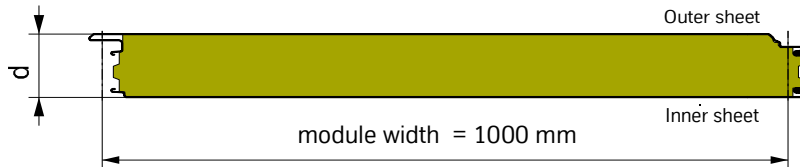
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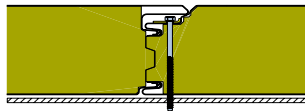


## Load tables "permissible q, wind" for preliminary design

- horizontal installation -

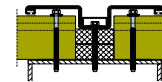


### Type of fixing



### End support:

2 screws with washer  $d=16$  mm  
characteristic tensile force  $F_{z,k}(b_A) = 4,0$  kN



### Intermediate support:

screw with load distributor  
characteristic tensile force  $F_{z,k}(b_B) = 3,4$  kN

The connection load distributor / supporting structure must be calculated separately!

Line  $b_A$ : Minimum end support width  $b_A$  in [mm] for the relevant permissible wind-pressure load  
Line  $b_B$ : Minimum intermediate support width  $b_B$  in [mm] for the relevant permissible wind-pressure load

Lines CG I Permissible wind load in  $[kN/m^2]$  with due consideration of the deflection restriction  $\max f = L/100$ . The following CG II, CG III: temperature differences between the cover sheets have been taken into consideration for secondary loads in the cover sheets, in accordance with the general approval issued by the building inspection authorities:

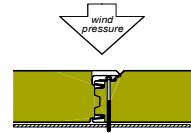
Season	Color Group	$t_{\text{outdoor}} - t_{\text{indoor}}$
summer	I / II / III	+30 / +40 / +55 °C
winter	all	-40 °C

The tables do not replace the structural analysis required for execution of the constructional work. The permissible wind loads in specified  $[kN/m^2]$  have been determined in accordance with the provisions of official approval no. Z-10.4-235 issued by the German building inspection authorities.

Please note the maximum length supplied, especially in the case of multi-span girders.

# Hoesch isorock® vario 140

## Load tables for wind pressure



### Single-span girder, permissible wind pressure load perm. $w_p$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	
$b_A = 60$ [mm]	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	57	55	52	
<b>CG I-III</b>	3.24	2.60	2.16	1.85	1.62	1.44	1.30	1.18	1.08	1.00	0.93	0.87	0.81	0.76	0.72	0.68	0.65	0.62	0.56	0.51	0.47	
$b_A \leq 80$ [mm]	80	80	80	80	80	80	80	80	80	80	80	80	78	74	70	66	63	60	57	55	52	
<b>CG I-III</b>	4.33	3.46	2.88	2.47	2.16	1.92	1.73	1.57	1.44	1.33	1.24	1.15	1.06	0.94	0.84	0.75	0.68	0.62	0.56	0.51	0.47	

### Two-span girder, permissible wind pressure load perm. $w_p$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	
$b_A = 60$ [mm]	40	40	40	40	40	40	40	40	40	40												
<b>CG I</b>	0.93	0.56	0.36	0.25	0.20	0.17	0.15	0.15	0.15	0.15												
$b_B = 60$ [mm]	60	60	60	60	60	60	60	60	60	60												
$b_A \leq 60$ [mm]	48	43	40	40	40	40	40	40	40	40												
<b>CG I</b>	2.58	1.86	1.42	1.15	0.97	0.84	0.75	0.69	0.64	0.43												
$b_B \leq 100$ [mm]	100	100	100	100	100	100	100	100	100	85												
$b_A \leq 80$ [mm]	70	70	69	66	64	63	63	63	42	40												
<b>CG I</b>	3.78	3.03	2.49	2.05	1.74	1.52	1.36	1.23	0.75	0.43												
$b_B \leq 140$ [mm]	140	140	140	140	140	140	140	140	109	85												

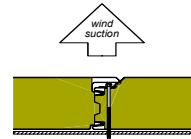
### Three-span girder, permissible wind pressure load perm. $w_p$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	
$b_A = 60$ [mm]	40	40	40	40	40	40	40	40	40													
<b>CG I-II</b>	1.25	0.94	0.77	0.67	0.60	0.56	0.52	0.49	0.47													
$b_B = 60$ [mm]	60	60	60	60	60	60	60	60	60													
$b_A \leq 60$ [mm]	50	50	50	50	50	50	50	49	40													
<b>CG I-II</b>	2.70	2.16	1.80	1.54	1.35	1.20	1.08	0.97	0.66													
$b_B \leq 100$ [mm]	100	100	100	100	100	100	100	99	74													
$b_A \leq 80$ [mm]	70	70	70	70	70	70	68	49	40													
<b>CG I-II</b>	3.78	3.03	2.52	2.16	1.89	1.68	1.47	0.97	0.66													
$b_B \leq 140$ [mm]	140	140	140	140	140	140	136	99	74													

### Four-span girder, permissible wind pressure load perm. $w_p$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	
$b_A = 60$ [mm]	43	43	41	40	40	40																
<b>CG I-II</b>	1.42	1.09	0.90	0.77	0.68	0.61																
$b_B = 60$ [mm]	60	60	60	60	60	60																
$b_A \leq 60$ [mm]	51	51	50	50	50	50																
<b>CG I-II</b>	2.70	2.16	1.80	1.55	1.35	1.20																
$b_B \leq 100$ [mm]	100	100	100	100	100	100																
$b_A \leq 80$ [mm]	70	70	70	70	70	53																
<b>CG I-II</b>	3.79	3.03	2.52	2.16	1.89	1.27																
$b_B \leq 140$ [mm]	140	140	140	140	140	105																

## Load tables for wind suction



### Single-span girder, permissible wind suction load perm. $w_s$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	
CG I-III	4.00	3.20	2.67	2.29	2.00	1.78	1.60	1.45	1.33	1.23	1.14	1.07	1.00	0.94	0.84	0.75	0.68	0.62	0.56	0.51	0.47	

### Two-span girder, permissible wind suction load perm. $w_s$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	
CG I	1.59	1.11	0.83	0.66	0.54	0.47	0.42	0.38	0.35	0.33												
CG II																						
CG III																						

### Three-span girder, permissible wind suction load perm. $w_s$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	
CG I	1.65	1.30	1.08	0.92	0.80	0.71	0.63	0.57	0.52	0.48	0.45											
CG II	1.50	1.12	0.91	0.78	0.70	0.64	0.60	0.56	0.52													
CG III																						

### Four-span girder, permissible wind suction load perm. $w_s$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	
CG I	1.65	1.31	1.08	0.92	0.80	0.71	0.64	0.57	0.52	0.48	0.45											
CG II	1.65	1.28	1.05	0.90	0.79	0.70																
CG III																						

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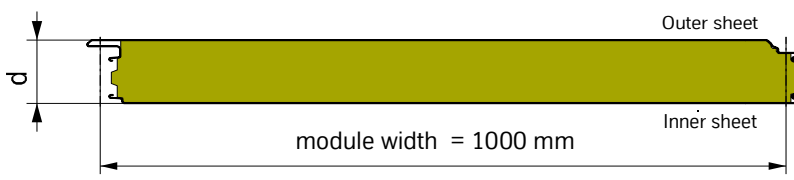
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## Load tables "permissible q, wind" for preliminary design

- horizontal installation -

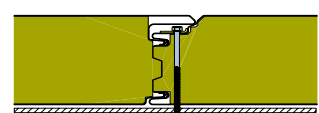


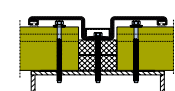
$t_{N1} = 0,50 \text{ mm}$



$d = 160 \text{ mm}$

$t_{N2} = 0,50 \text{ mm}$

**Type of fixing** 

**End support:** 2 screws with washer  $d=16 \text{ mm}$   
characteristic tensile force  $F_z, k(b_A) = 4,0 \text{ kN}$  

**Intermediate support:** screw with load distributor  
characteristic tensile force  $F_z, k(b_B) = 3,4 \text{ kN}$

The connection load distributor / supporting structure must be calculated separately!

Line  $b_A$ : Minimum end support width  $b_A$  in [mm] for the relevant permissible wind-pressure load  
Line  $b_B$ : Minimum intermediate support width  $b_B$  in [mm] for the relevant permissible wind-pressure load

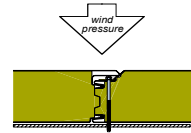
Lines CG I Permissible wind load in  $[\text{kN/m}^2]$  with due consideration of the deflection restriction  $\max f = L/100$ . The following CG II, CG III: temperature differences between the cover sheets have been taken into consideration for secondary loads in the cover sheets, in accordance with the general approval issued by the building inspection authorities:

Season	Color Group	$t_{\text{outdoor}} - t_{\text{indoor}}$
summer	I / II / III	+30 / +40 / +55 °C
winter	all	-40 °C

The tables do not replace the structural analysis required for execution of the constructional work. The permissible wind loads in specified  $[\text{kN/m}^2]$  have been determined in accordance with the provisions of official approval no. Z-10.4-235 issued by the German building inspection authorities.

Please note the maximum length supplied, especially in the case of multi-span girders.

## Load tables for wind pressure



### Single-span girder, permissible wind pressure load perm. $w_p$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50
$b_A = 60$ [mm]	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	57	55
<b>CG I-III</b>	3.24	2.60	2.16	1.85	1.62	1.44	1.30	1.18	1.08	1.00	0.93	0.87	0.81	0.76	0.72	0.68	0.65	0.62	0.59	0.56	0.54	0.50	0.46
$b_A \leq 80$ [mm]	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	76	72	68	65	62	60	57	55
<b>CG I-III</b>	4.33	3.46	2.88	2.47	2.16	1.92	1.73	1.57	1.44	1.33	1.24	1.15	1.08	1.02	0.96	0.86	0.78	0.70	0.64	0.59	0.54	0.50	0.46

### Two-span girder, permissible wind pressure load perm. $w_p$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50
$b_A = 60$ [mm]	40	40	40	40	40	40	40	40	40	40	40	40											
<b>CG I</b>	1.12	0.70	0.46	0.32	0.24	0.19	0.16	0.15	0.14	0.13	0.13	0.13											
$b_B = 60$ [mm]	60	60	60	60	60	60	60	60	60	60	60	60											
$b_A \leq 60$ [mm]	50	47	43	40	40	40	40	40	40	40	40	40											
<b>CG I</b>	2.70	2.01	1.54	1.23	1.02	0.88	0.77	0.70	0.64	0.59	0.55	0.38											
$b_B \leq 100$ [mm]	100	100	100	100	100	100	100	100	100	100	100	85											
$b_A \leq 80$ [mm]	70	70	70	69	67	65	64	63	63	58	40	40											
<b>CG I</b>	3.78	3.03	2.52	2.14	1.81	1.57	1.39	1.25	1.14	0.96	0.61	0.38											
$b_B \leq 140$ [mm]	140	140	140	140	140	140	140	140	140	132	105	85											

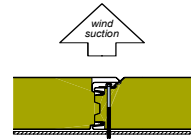
### Three-span girder, permissible wind pressure load perm. $w_p$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50
$b_A = 60$ [mm]	40	40	40	40	40	40	40	40	40	40	40												
<b>CG I-II</b>	1.35	0.99	0.79	0.67	0.59	0.54	0.50	0.47	0.45	0.42	0.41												
$b_B = 60$ [mm]	60	60	60	60	60	60	60	60	60	60	60												
$b_A \leq 60$ [mm]	50	50	50	50	50	50	50	50	50	46	40												
<b>CG I-II</b>	2.70	2.16	1.80	1.54	1.35	1.20	1.08	0.98	0.90	0.76	0.54												
$b_B \leq 100$ [mm]	100	100	100	100	100	100	100	100	100	91	72												
$b_A \leq 80$ [mm]	70	70	70	70	70	70	70	70	60	46	40												
<b>CG I-II</b>	3.78	3.03	2.52	2.16	1.89	1.68	1.51	1.38	1.08	0.76	0.54												
$b_B \leq 140$ [mm]	140	140	140	140	140	140	140	140	120	91	72												

### Four-span girder, permissible wind pressure load perm. $w_p$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50
$b_A = 60$ [mm]	42	43	42	41	40	40	40	40															
<b>CG I-II</b>	1.48	1.13	0.92	0.78	0.68	0.61	0.55	0.50															
$b_B = 60$ [mm]	60	60	60	60	60	60	60	60															
$b_A \leq 60$ [mm]	50	51	51	50	50	50	50	40															
<b>CG I-II</b>	2.70	2.16	1.80	1.54	1.35	1.20	1.08	0.50															
$b_B \leq 100$ [mm]	100	100	100	100	100	100	100	60															
$b_A \leq 80$ [mm]	70	70	70	70	70	70	57	40															
<b>CG I-II</b>	3.78	3.03	2.52	2.16	1.89	1.68	1.24	0.50															
$b_B \leq 140$ [mm]	140	140	140	140	140	140	114	60															

## Load tables for wind suction



### Single-span girder, permissible wind suction load perm. $w_s$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50
CG I-III	4.00	3.20	2.67	2.29	2.00	1.78	1.60	1.45	1.33	1.23	1.14	1.07	1.00	0.94	0.89	0.84	0.78	0.70	0.64	0.59	0.54	0.50	0.46

### Two-span girder, permissible wind suction load perm. $w_s$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50	
CG I	1.65	1.22	0.91	0.71	0.58	0.49	0.43	0.38	0.35	0.33	0.31	0.29												
CG II																								
CG III																								

### Three-span girder, permissible wind suction load perm. $w_s$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50	
CG I	1.66	1.31	1.08	0.92	0.80	0.71	0.64	0.58	0.53	0.48	0.45	0.42	0.39											
CG II	1.59	1.17	0.93	0.79	0.69	0.62	0.58	0.54	0.51	0.48	0.45													
CG III																								

### Four-span girder, permissible wind suction load perm. $w_s$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50	
CG I	1.66	1.32	1.09	0.93	0.81	0.71	0.64	0.58	0.53	0.49	0.45	0.42	0.39											
CG II	1.66	1.31	1.07	0.90	0.79	0.70	0.64	0.58																
CG III																								

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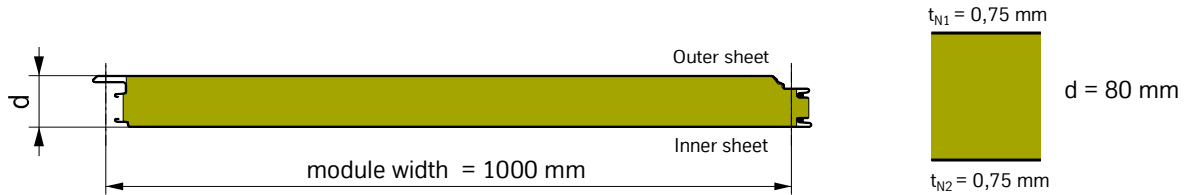
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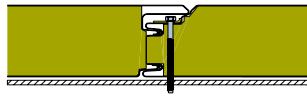


## Load tables "permissible q, wind" for preliminary design

- horizontal installation -

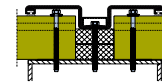


### Type of fixing



### End support:

2 screws with washer  $d=16$  mm  
characteristic tensile force  $F_z, k(b_A) = 6,0$  kN



### Intermediate support:

screw with load distributor  
characteristic tensile force  $F_z, k(b_B) = 4,19$  kN

The connection load distributor / supporting structure must be calculated separately!

Line  $b_A$ : Minimum end support width  $b_A$  in [mm] for the relevant permissible wind-pressure load  
Line  $b_B$ : Minimum intermediate support width  $b_B$  in [mm] for the relevant permissible wind-pressure load

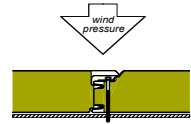
Lines CG I Permissible wind load in [kN/m<sup>2</sup>] with due consideration of the deflection restriction  $\max f = L/100$ . The following  
CG II, CG III: temperature differences between the cover sheets have been taken into consideration for secondary loads in the cover sheets, in accordance with the general approval issued by the building inspection authorities:

Season	Color Group	$t_{\text{outdoor}} - t_{\text{indoor}}$
summer	I / II / III	+30 / +40 / +55 °C
winter	all	-40 °C

The tables do not replace the structural analysis required for execution of the constructional work. The permissible wind loads in specified [kN/m<sup>2</sup>] have been determined in accordance with the provisions of official approval no. Z-10.4-235 issued by the German building inspection authorities.

Please note the maximum length supplied, especially in the case of multi-span girders.

## Load tables for wind pressure



### Single-span girder, permissible wind pressure load perm. $w_p$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50
$b_A = 60$ [mm]	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	57	55	53	51
<b>CG I-III</b>	3.24	2.60	2.16	1.85	1.62	1.44	1.30	1.18	1.08	1.00	0.93	0.87	0.81	0.76	0.72	0.68	0.65	0.62	0.59	0.54	0.49	0.46	0.42
$b_A \leq 80$ [mm]	66	66	66	65	65	65	65	65	65	66	66	65	65	65	66	65	65	63	60	57	55	53	51
<b>CG I-III</b>	3.54	2.83	2.36	2.02	1.77	1.57	1.42	1.29	1.18	1.09	1.01	0.94	0.88	0.83	0.79	0.75	0.71	0.65	0.59	0.54	0.49	0.46	0.42

### Two-span girder, permissible wind pressure load perm. $w_p$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50	
$b_A = 60$ [mm]	40																							
<b>CG I</b>	0.30																							
$b_B = 60$ [mm]	60																							
$b_A \leq 60$ [mm]	40	40	40	40	40	40	40	40	40	40	40													
<b>CG I</b>	1.91	1.35	1.05	0.88	0.78	0.71	0.66	0.63	0.60	0.45	0.30													
$b_B \leq 100$ [mm]	100	100	100	100	100	100	100	100	100	89	76													
$b_A \leq 80$ [mm]	65	60	58	57	56	57	58	51	40	40														
<b>CG I</b>	3.52	2.61	2.08	1.75	1.52	1.37	1.25	1.01	0.66	0.45	0.30													
$b_B \leq 140$ [mm]	140	140	140	140	140	140	140	129	106	89	76													

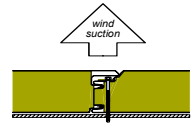
### Three-span girder, permissible wind pressure load perm. $w_p$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50	
$b_A = 60$ [mm]	41	41	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
<b>CG I-II</b>	0.92	0.75	0.66	0.61	0.58	0.55	0.53	0.50	0.48	0.46	0.44	0.42	0.41	0.36	0.31	0.27	0.24	0.21	0.19	0.17	0.15	0.13	0.13	0.13
$b_B = 60$ [mm]	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
$b_A \leq 60$ [mm]	52	51	50	49	50	50	50	50	50	46	40	40	40	40	40	40	40	40	40	40	40	40	40	40
<b>CG I-II</b>	2.56	2.04	1.74	1.52	1.35	1.20	1.08	0.98	0.90	0.77	0.62	0.51	0.43	0.36	0.31	0.27	0.24	0.21	0.19	0.17	0.15	0.13	0.13	0.13
$b_B \leq 100$ [mm]	100	100	100	100	100	100	100	100	100	92	80	70	63	60	60	60	60	60	60	60	60	60	60	60
$b_A \leq 80$ [mm]	60	59	61	63	65	66	65	64	54	46	40	40	40	40	40	40	40	40	40	40	40	40	40	40
<b>CG I-II</b>	3.22	2.56	2.18	1.94	1.77	1.57	1.42	1.25	0.97	0.77	0.62	0.51	0.43	0.36	0.31	0.27	0.24	0.21	0.19	0.17	0.15	0.13	0.13	0.13
$b_B \leq 140$ [mm]	119	118	121	126	131	131	131	128	108	92	80	70	63	60	60	60	60	60	60	60	60	60	60	60

### Four-span girder, permissible wind pressure load perm. $w_p$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50	
$b_A = 60$ [mm]	47	45	42	40	40	40	40	40	40	40	40	40	40	40	40									
<b>CG I-II</b>	1.15	0.92	0.78	0.68	0.61	0.56	0.52	0.48	0.45	0.43	0.40	0.38	0.37	0.32	0.27									
$b_B = 60$ [mm]	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60									
$b_A \leq 60$ [mm]	57	54	52	50	50	50	50	50	50	44	40	40	40	40	40									
<b>CG I-II</b>	2.70	2.16	1.80	1.55	1.35	1.20	1.08	0.98	0.90	0.73	0.58	0.46	0.38	0.32	0.27									
$b_B \leq 100$ [mm]	100	100	100	100	100	100	100	100	100	88	76	68	61	60	60									
$b_A \leq 80$ [mm]	58	56	59	62	65	66	65	63	52	44	40	40	40	40	40									
<b>CG I-II</b>	2.86	2.41	2.13	1.92	1.76	1.57	1.42	1.25	0.95	0.73	0.58	0.46	0.38	0.32	0.27									
$b_B \leq 140$ [mm]	106	111	118	125	130	131	131	127	105	88	76	68	61	60	60									

## Load tables for wind suction



### Single-span girder, permissible wind suction load perm. $w_s$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50
CG I-III	3.54	2.83	2.36	2.02	1.77	1.57	1.42	1.29	1.18	1.09	1.01	0.94	0.88	0.83	0.79	0.75	0.71	0.65	0.59	0.54	0.49	0.46	0.42

### Two-span girder, permissible wind suction load perm. $w_s$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50
CG I	1.69	1.20	0.93	0.78	0.68	0.61	0.56	0.53	0.50	0.48	0.46												
CG II																							
CG III																							

### Three-span girder, permissible wind suction load perm. $w_s$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50
CG I	2.00	1.58	1.31	1.12	0.97	0.86	0.77	0.70	0.64	0.59	0.55	0.51	0.48	0.45	0.43	0.40	0.38	0.36	0.35	0.33	0.32	0.31	0.29
CG II	1.76	1.40	1.20	1.06	0.97	0.86	0.77	0.70	0.64	0.59	0.55	0.51	0.48	0.42	0.36	0.30	0.26	0.23	0.20	0.18	0.16	0.14	
CG III																							

### Four-span girder, permissible wind suction load perm. $w_s$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50
CG I	2.01	1.60	1.32	1.12	0.97	0.86	0.77	0.70	0.64	0.59	0.54	0.50	0.47	0.44	0.42	0.39	0.37	0.36	0.34	0.32	0.31	0.30	0.29
CG II	2.01	1.59	1.32	1.12	0.97	0.86	0.77	0.70	0.64	0.59	0.54	0.50	0.44	0.35	0.29								
CG III																							

**ThyssenKrupp Bausysteme GmbH**

Hammerstraße 11 · D-57223 Kreuztal

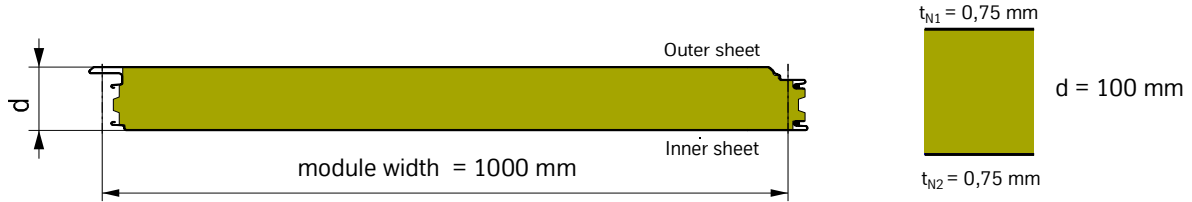
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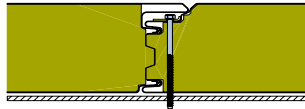


## Load tables "permissible q, wind" for preliminary design

- horizontal installation -

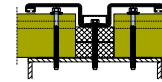


### Type of fixing



### End support:

2 screws with washer  $d=16$  mm  
characteristic tensile force  $F_{z,k}(b_A) = 6,0$  kN



### Intermediate support:

screw with load distributor  
characteristic tensile force  $F_{z,k}(b_B) = 4,4$  kN

The connection load distributor / supporting structure must be calculated separately!

Line  $b_A$ : Minimum end support width  $b_A$  in [mm] for the relevant permissible wind-pressure load  
Line  $b_B$ : Minimum intermediate support width  $b_B$  in [mm] for the relevant permissible wind-pressure load

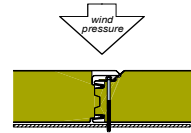
Lines CG I Permissible wind load in  $[kN/m^2]$  with due consideration of the deflection restriction  $\max f = L/100$ . The following CG II, CG III: temperature differences between the cover sheets have been taken into consideration for secondary loads in the cover sheets, in accordance with the general approval issued by the building inspection authorities:

Season	Color Group	$t_{\text{outdoor}} - t_{\text{indoor}}$
summer	I / II / III	+30 / +40 / +55 °C
winter	all	-40 °C

The tables do not replace the structural analysis required for execution of the constructional work. The permissible wind loads in specified  $[kN/m^2]$  have been determined in accordance with the provisions of official approval no. Z-10.4-235 issued by the German building inspection authorities.

Please note the maximum length supplied, especially in the case of multi-span girders.

## Load tables for wind pressure



**Single-span girder, permissible wind pressure load perm.  $w_p$  [kN/m<sup>2</sup>]**

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50	
$b_A \leq 60$ [mm]	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
<b>CG I-III</b>	3.24	2.60	2.16	1.85	1.62	1.44	1.30	1.18	1.08	1.00	0.93	0.87	0.81	0.76	0.72	0.68	0.65	0.62	0.59	0.56	0.54	0.52	0.50	
$b_A \leq 80$ [mm]	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	72	69	66	63	
<b>CG I-III</b>	3.99	3.20	2.67	2.28	2.00	1.78	1.60	1.45	1.33	1.23	1.14	1.07	1.00	0.94	0.89	0.84	0.80	0.76	0.73	0.67	0.62	0.57	0.53	

**Two-span girder, permissible wind pressure load perm.  $w_p$  [kN/m<sup>2</sup>]**

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50	
$b_A \leq 60$ [mm]	40	40																						
<b>CG I</b>	0.43	0.14																						
$b_B \leq 60$ [mm]	60	60																						
$b_A \leq 60$ [mm]	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
<b>CG I</b>	2.06	1.43	1.07	0.86	0.73	0.65	0.59	0.55	0.52	0.50	0.48	0.47	0.34	0.25										
$b_B \leq 100$ [mm]	100	100	100	100	100	100	100	100	100	100	100	100	88	77										
$b_A \leq 80$ [mm]	68	63	59	56	55	55	55	55	56	57	43	40	40	40	40	40	40	40	40	40	40	40	40	40
<b>CG I</b>	3.70	2.71	2.12	1.74	1.49	1.32	1.19	1.09	1.01	0.95	0.66	0.48	0.34	0.25										
$b_B \leq 140$ [mm]	140	140	140	140	140	140	140	140	140	140	118	101	88	77										

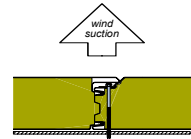
**Three-span girder, permissible wind pressure load perm.  $w_p$  [kN/m<sup>2</sup>]**

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50	
$b_A \leq 60$ [mm]	41	42	42	41	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
<b>CG I-II</b>	0.91	0.68	0.58	0.53	0.49	0.47	0.45	0.44	0.42	0.41	0.39	0.38	0.37	0.36	0.35	0.33	0.32	0.29	0.26	0.23	0.21	0.19	0.17	
$b_B \leq 60$ [mm]	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
$b_A \leq 60$ [mm]	52	53	52	51	50	49	50	50	50	50	50	50	46	41	40	40	40	40	40	40	40	40	40	40
<b>CG I-II</b>	2.56	1.99	1.66	1.45	1.29	1.18	1.08	0.98	0.90	0.83	0.77	0.72	0.62	0.52	0.44	0.38	0.33	0.29	0.26	0.23	0.21	0.19	0.17	
$b_B \leq 100$ [mm]	100	100	100	100	100	100	100	100	100	100	100	100	91	81	73	67	61	60	60	60	60	60	60	60
$b_A \leq 80$ [mm]	65	62	62	63	65	67	69	70	70	69	59	51	46	41	40	40	40	40	40	40	40	40	40	40
<b>CG I-II</b>	3.51	2.69	2.23	1.95	1.76	1.61	1.50	1.38	1.26	1.14	0.91	0.74	0.62	0.52	0.44	0.38	0.33	0.29	0.26	0.23	0.21	0.19	0.17	
$b_B \leq 140$ [mm]	130	125	124	127	130	134	139	140	140	137	118	103	91	81	73	67	61	60	60	60	60	60	60	60

**Four-span girder, permissible wind pressure load perm.  $w_p$  [kN/m<sup>2</sup>]**

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50	
$b_A \leq 60$ [mm]	49	48	46	44	42	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
<b>CG I-II</b>	1.13	0.88	0.73	0.63	0.57	0.52	0.47	0.44	0.41	0.39	0.37	0.35	0.34	0.32	0.31	0.30	0.29	0.25	0.13					
$b_B \leq 60$ [mm]	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
$b_A \leq 60$ [mm]	59	58	56	54	51	50	50	50	50	50	50	50	43	40	40	40	40	40	40	40	40	40	40	40
<b>CG I-II</b>	2.70	2.16	1.80	1.54	1.35	1.20	1.08	0.98	0.90	0.83	0.77	0.72	0.59	0.48	0.40	0.34	0.29	0.25	0.13					
$b_B \leq 100$ [mm]	100	100	100	100	100	100	100	100	100	100	100	100	87	77	70	65	60	60	60	60	60	60	60	60
$b_A \leq 80$ [mm]	61	60	59	61	64	67	69	70	70	68	58	50	43	40	40	40	40	40	40	40	40	40	40	40
<b>CG I-II</b>	2.99	2.42	2.10	1.89	1.73	1.61	1.50	1.38	1.26	1.13	0.90	0.72	0.59	0.48	0.40	0.34	0.29	0.25	0.13					
$b_B \leq 140$ [mm]	111	112	117	122	128	134	138	140	140	136	116	100	87	77	70	65	60	60	60	60	60	60	60	60

## Load tables for wind suction



### Single-span girder, permissible wind suction load perm. $w_s$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50
CG I-III	3.99	3.20	2.67	2.28	2.00	1.78	1.60	1.45	1.33	1.23	1.14	1.07	1.00	0.94	0.89	0.84	0.80	0.76	0.73	0.67	0.62	0.57	0.53

### Two-span girder, permissible wind suction load perm. $w_s$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50	
CG I	2.00	1.41	1.07	0.86	0.73	0.64	0.58	0.53	0.50	0.47	0.45	0.43	0.42	0.40										
CG II																								
CG III																								

### Three-span girder, permissible wind suction load perm. $w_s$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50	
CG I	2.12	1.68	1.39	1.18	1.03	0.91	0.81	0.74	0.68	0.62	0.58	0.54	0.50	0.47	0.45	0.42	0.40	0.38	0.37	0.35	0.33	0.32	0.31	
CG II	1.95	1.49	1.24	1.08	0.97	0.89	0.81	0.74	0.68	0.62	0.58	0.54	0.50	0.47	0.45	0.42	0.39	0.34	0.29	0.26	0.23	0.20	0.18	
CG III																								

### Four-span girder, permissible wind suction load perm. $w_s$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50	
CG I	2.13	1.69	1.40	1.19	1.03	0.91	0.82	0.74	0.67	0.62	0.57	0.53	0.50	0.47	0.44	0.42	0.40	0.38	0.36	0.34	0.33	0.31	0.30	
CG II	2.13	1.69	1.40	1.19	1.03	0.91	0.82	0.74	0.67	0.62	0.57	0.53	0.50	0.47	0.44	0.40	0.33	0.28	0.23					
CG III																								

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## Load tables "permissible q, wind" for preliminary design

- horizontal installation -

**Type of fixing**

**End support:** 2 screws with washer  $d=16$  mm  
characteristic tensile force  $F_z, k(b_A) = 6,0$  kN

**Intermediate support:** screw with load distributor  
characteristic tensile force  $F_z, k(b_B) = 4,38$  kN

The connection load distributor / supporting structure must be calculated separately!

Line  $b_A$ : Minimum end support width  $b_A$  in [mm] for the relevant permissible wind-pressure load  
Line  $b_B$ : Minimum intermediate support width  $b_B$  in [mm] for the relevant permissible wind-pressure load

Lines CG I Permissible wind load in  $[kN/m^2]$  with due consideration of the deflection restriction  $\max f = L/100$ . The following CG II, CG III: temperature differences between the cover sheets have been taken into consideration for secondary loads in the cover sheets, in accordance with the general approval issued by the building inspection authorities:

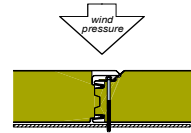
Season	Color Group	$t_{\text{outdoor}} - t_{\text{indoor}}$
summer	I / II / III	+30 / +40 / +55 °C
winter	all	-40 °C

The tables do not replace the structural analysis required for execution of the constructional work. The permissible wind loads in specified  $[kN/m^2]$  have been determined in accordance with the provisions of official approval no. Z-10.4-235 issued by the German building inspection authorities.

Please note the maximum length supplied, especially in the case of multi-span girders.

# Hoesch isorock® vario 120

## Load tables for wind pressure



### Single-span girder, permissible wind pressure load perm. $w_p$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50	
$b_A = 60$ [mm]	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
<b>CG I-III</b>	3.24	2.60	2.16	1.85	1.62	1.44	1.30	1.18	1.08	1.00	0.93	0.87	0.81	0.76	0.72	0.68	0.65	0.62	0.59	0.56	0.54	0.52	0.50	
$b_A \leq 80$ [mm]	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	76
<b>CG I-III</b>	4.27	3.42	2.85	2.44	2.14	1.90	1.71	1.55	1.42	1.32	1.22	1.14	1.07	1.01	0.95	0.90	0.85	0.81	0.78	0.74	0.71	0.68	0.63	

### Two-span girder, permissible wind pressure load perm. $w_p$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50	
$b_A = 60$ [mm]	40	40	40																					
<b>CG I</b>	0.69	0.32	0.14																					
$b_B = 60$ [mm]	60	60	60																					
$b_A \leq 60$ [mm]	43	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40							
<b>CG I</b>	2.35	1.63	1.21	0.94	0.77	0.66	0.59	0.54	0.50	0.47	0.45	0.43	0.41	0.40	0.39	0.31	0.23							
$b_B \leq 100$ [mm]	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	91	81							
$b_A \leq 80$ [mm]	70	68	63	60	57	56	55	55	55	55	56	57	53	42	40	40	40							
<b>CG I</b>	3.79	2.93	2.27	1.84	1.55	1.35	1.20	1.08	0.99	0.92	0.87	0.82	0.71	0.54	0.41	0.31	0.23							
$b_B \leq 140$ [mm]	140	140	140	140	140	140	140	140	140	140	140	140	133	116	102	91	81							

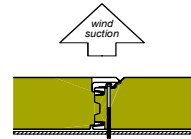
### Three-span girder, permissible wind pressure load perm. $w_p$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50	
$b_A = 60$ [mm]	40	41	42	42	42	41	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
<b>CG I-II</b>	1.02	0.73	0.58	0.50	0.46	0.43	0.41	0.39	0.38	0.37	0.36	0.35	0.34	0.33	0.32	0.31	0.30	0.29	0.29	0.28	0.27	0.25	0.22	
$b_B = 60$ [mm]	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
$b_A \leq 60$ [mm]	51	52	52	52	51	50	49	49	50	50	50	50	50	50	50	47	42	40	40	40	40	40	40	40
<b>CG I-II</b>	2.69	2.04	1.67	1.43	1.26	1.14	1.05	0.97	0.90	0.83	0.77	0.72	0.68	0.64	0.60	0.53	0.46	0.40	0.35	0.31	0.28	0.25	0.22	
$b_B \leq 100$ [mm]	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	93	85	77	72	66	62	60	60	60
$b_A \leq 80$ [mm]	65	60	58	58	59	60	62	63	65	67	69	70	66	58	52	47	42	40	40	40	40	40	40	40
<b>CG I-II</b>	3.53	2.61	2.10	1.79	1.58	1.44	1.33	1.25	1.18	1.12	1.06	1.01	0.89	0.74	0.62	0.53	0.46	0.40	0.35	0.31	0.28	0.25	0.22	
$b_B \leq 140$ [mm]	130	121	117	116	117	120	123	127	131	134	137	140	132	116	103	93	85	77	72	66	62	60	60	60

### Four-span girder, permissible wind pressure load perm. $w_p$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50	
$b_A = 60$ [mm]	48	49	48	46	45	43	41	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
<b>CG I-II</b>	1.20	0.91	0.74	0.63	0.56	0.50	0.46	0.43	0.40	0.37	0.35	0.34	0.32	0.31	0.29	0.28	0.27	0.27	0.26	0.25	0.24	0.21	0.19	
$b_B = 60$ [mm]	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
$b_A \leq 60$ [mm]	58	59	58	56	54	52	50	50	50	50	50	50	50	50	50	45	40	40	40	40	40	40	40	40
<b>CG I-II</b>	2.70	2.16	1.80	1.54	1.35	1.20	1.08	0.98	0.90	0.83	0.77	0.72	0.68	0.64	0.60	0.51	0.43	0.37	0.32	0.28	0.24	0.21	0.19	
$b_B \leq 100$ [mm]	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	89	80	74	69	64	60	60	60	60
$b_A \leq 80$ [mm]	59	59	59	57	56	59	61	63	65	67	69	70	65	57	50	45	40	40	40	40	40	40	40	40
<b>CG I-II</b>	2.85	2.22	1.87	1.66	1.52	1.41	1.32	1.24	1.17	1.11	1.06	1.01	0.88	0.73	0.60	0.51	0.43	0.37	0.32	0.28	0.24	0.21	0.19	
$b_B \leq 140$ [mm]	106	102	104	108	112	117	122	126	130	134	137	140	130	114	100	89	80	74	69	64	60	60	60	60

## Load tables for wind suction



### Single-span girder, permissible wind suction load perm. $w_s$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50
CG I-III	4.27	3.42	2.85	2.44	2.14	1.90	1.71	1.55	1.42	1.32	1.22	1.14	1.07	1.01	0.95	0.90	0.85	0.81	0.78	0.74	0.71	0.68	0.63

### Two-span girder, permissible wind suction load perm. $w_s$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50
CG I	2.11	1.57	1.18	0.93	0.77	0.66	0.58	0.52	0.48	0.45	0.42	0.40	0.39	0.37	0.36	0.35	0.34	0.33	0.32	0.31	0.30	0.29	0.28
CG II																							
CG III																							

### Three-span girder, permissible wind suction load perm. $w_s$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50
CG I	2.13	1.68	1.39	1.18	1.03	0.91	0.82	0.74	0.68	0.62	0.58	0.54	0.50	0.47	0.45	0.42	0.40	0.38	0.36	0.35	0.33	0.32	0.31
CG II	2.07	1.54	1.24	1.06	0.94	0.85	0.78	0.73	0.68	0.62	0.58	0.54	0.50	0.47	0.45	0.42	0.40	0.38	0.36	0.35	0.32	0.29	0.25
CG III																							

### Four-span girder, permissible wind suction load perm. $w_s$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50
CG I	2.13	1.69	1.40	1.19	1.04	0.92	0.82	0.74	0.68	0.62	0.58	0.54	0.50	0.47	0.44	0.42	0.40	0.38	0.36	0.34	0.33	0.31	0.30
CG II	2.13	1.69	1.40	1.19	1.04	0.92	0.82	0.74	0.68	0.62	0.58	0.54	0.50	0.47	0.44	0.42	0.40	0.38	0.36	0.32	0.28	0.24	0.21
CG III																							

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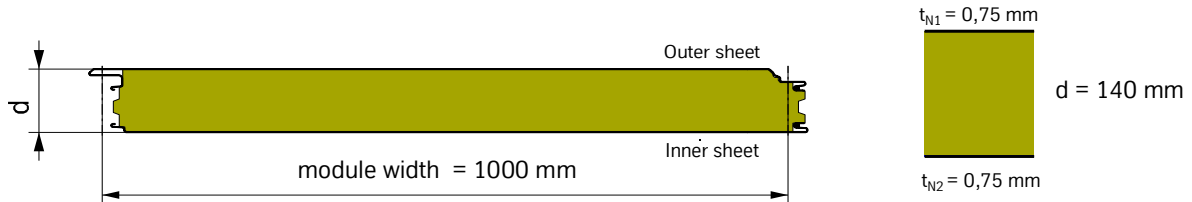
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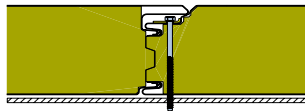


## Load tables "permissible q, wind" for preliminary design

- horizontal installation -

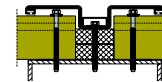


### Type of fixing



### End support:

2 screws with washer  $d=16$  mm  
characteristic tensile force  $F_{z,k}(b_A) = 6,0$  kN



### Intermediate support:

screw with load distributor  
characteristic tensile force  $F_{z,k}(b_B) = 4,36$  kN

The connection load distributor / supporting structure must be calculated separately!

Line  $b_A$ : Minimum end support width  $b_A$  in [mm] for the relevant permissible wind-pressure load

Line  $b_B$ : Minimum intermediate support width  $b_B$  in [mm] for the relevant permissible wind-pressure load

Lines CG I Permissible wind load in  $[\text{kN}/\text{m}^2]$  with due consideration of the deflection restriction  $\max f = L/100$ . The following CG II, CG III: temperature differences between the cover sheets have been taken into consideration for secondary loads in the cover sheets, in accordance with the general approval issued by the building inspection authorities:

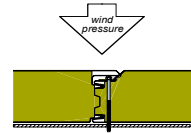
Season	Color Group	$t_{\text{outdoor}} - t_{\text{indoor}}$
summer	I / II / III	+30 / +40 / +55 °C
winter	all	-40 °C

The tables do not replace the structural analysis required for execution of the constructional work. The permissible wind loads in specified  $[\text{kN}/\text{m}^2]$  have been determined in accordance with the provisions of official approval no. Z-10.4-235 issued by the German building inspection authorities.

Please note the maximum length supplied, especially in the case of multi-span girders.

# Hoesch isorock® vario 140

## Load tables for wind pressure



### Single-span girder, permissible wind pressure load perm. $w_p$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50	
$b_A \leq 60$ [mm]	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
CG I-III	3.24	2.60	2.16	1.85	1.62	1.44	1.30	1.18	1.08	1.00	0.93	0.87	0.81	0.76	0.72	0.68	0.65	0.62	0.59	0.56	0.54	0.52	0.50	
$b_A \leq 80$ [mm]	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	77	74	
CG I-III	4.33	3.46	2.88	2.47	2.16	1.92	1.73	1.57	1.44	1.33	1.24	1.15	1.08	1.02	0.96	0.91	0.87	0.82	0.79	0.75	0.72	0.67	0.62	

### Two-span girder, permissible wind pressure load perm. $w_p$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50	
$b_A \leq 60$ [mm]	40	40	40	40																				
CG I	0.87	0.46	0.23	0.10																				
$b_B \leq 60$ [mm]	60	60	60	60																				
$b_A \leq 60$ [mm]	47	41	40	40	40	40	40	40	40	40	40	40	40											
CG I	2.54	1.78	1.31	1.02	0.82	0.69	0.60	0.53	0.48	0.45	0.42	0.40	0.38											
$b_B \leq 100$ [mm]	100	100	100	100	100	100	100	100	100	100	100	100	100											
$b_A \leq 80$ [mm]	70	70	67	62	60	57	56	55	55	55	55	51	40											
CG I	3.78	3.03	2.40	1.93	1.61	1.38	1.21	1.09	0.99	0.91	0.85	0.74	0.48											
$b_B \leq 140$ [mm]	140	140	140	140	140	140	140	140	140	140	140	135	110											

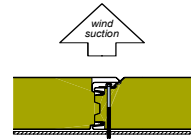
### Three-span girder, permissible wind pressure load perm. $w_p$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50	
$b_A \leq 60$ [mm]	40	41	42	43	43	42	41	41	40	40	40	40												
CG I-II	1.11	0.77	0.59	0.49	0.43	0.39	0.37	0.35	0.34	0.33	0.32	0.31												
$b_B \leq 60$ [mm]	60	60	60	60	60	60	60	60	60	60	60	60												
$b_A \leq 60$ [mm]	50	52	53	53	53	52	51	50	49	49	50	46												
CG I-II	2.70	2.10	1.68	1.42	1.24	1.11	1.01	0.94	0.88	0.82	0.77	0.66												
$b_B \leq 100$ [mm]	100	100	100	100	100	100	100	100	100	100	100	92												
$b_A \leq 80$ [mm]	70	70	70	70	70	70	70	70	70	70	58	46												
CG I-II	3.79	3.03	2.52	2.16	1.89	1.68	1.51	1.38	1.26	1.16	0.89	0.66												
$b_B \leq 140$ [mm]	140	140	140	140	140	140	140	140	140	140	115	92												

### Four-span girder, permissible wind pressure load perm. $w_p$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50	
$b_A \leq 60$ [mm]	48	49	49	48	47	45	44	42	40															
CG I-II	1.27	0.93	0.74	0.63	0.55	0.49	0.45	0.41	0.25															
$b_B \leq 60$ [mm]	60	60	60	60	60	60	60	60	60															
$b_A \leq 60$ [mm]	58	59	59	58	57	55	53	52	43															
CG I-II	2.70	2.16	1.80	1.54	1.35	1.20	1.08	0.98	0.50															
$b_B \leq 100$ [mm]	100	100	100	100	100	100	100	100	69															
$b_A \leq 80$ [mm]	70	70	70	70	70	70	70	69	56															
CG I-II	3.79	3.03	2.52	2.16	1.89	1.68	1.51	1.36	1.00															
$b_B \leq 140$ [mm]	140	140	140	140	140	140	140	138	111															

## Load tables for wind suction



### Single-span girder, permissible wind suction load perm. $w_s$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50
CG I-III	5.00	3.99	3.33	2.85	2.50	2.22	2.00	1.82	1.67	1.54	1.43	1.33	1.25	1.18	1.11	1.05	1.00	0.95	0.86	0.79	0.73	0.67	0.62

### Two-span girder, permissible wind suction load perm. $w_s$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50	
CG I	2.12	1.66	1.25	0.98	0.80	0.67	0.58	0.51	0.47	0.43	0.40	0.38	0.36											
CG II																								
CG III																								

### Three-span girder, permissible wind suction load perm. $w_s$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50	
CG I	2.13	1.69	1.40	1.19	1.03	0.91	0.82	0.74	0.68	0.62	0.58	0.54	0.50	0.47	0.45									
CG II	2.13	1.57	1.24	1.04	0.90	0.81	0.74	0.69	0.65	0.61	0.58	0.54												
CG III																								

### Four-span girder, permissible wind suction load perm. $w_s$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50	
CG I	2.13	1.70	1.40	1.20	1.04	0.92	0.82	0.75	0.68	0.63	0.58	0.54	0.50	0.47	0.44									
CG II	2.13	1.70	1.40	1.18	1.03	0.91	0.82	0.75	0.68															
CG III																								

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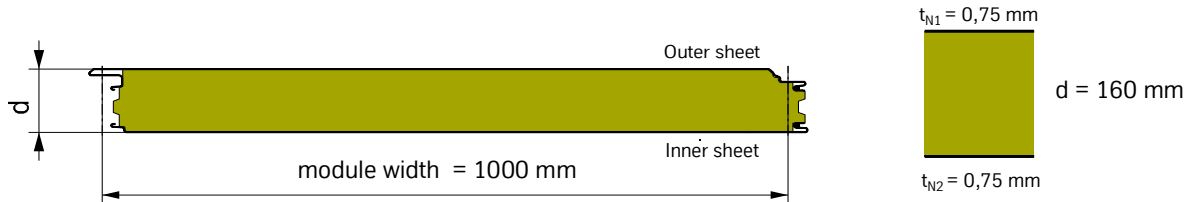
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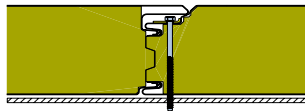


## Load tables "permissible q, wind" for preliminary design

- horizontal installation -

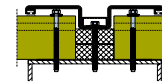


### Type of fixing



### End support:

2 screws with washer  $d=16$  mm  
characteristic tensile force  $F_{z,k}(b_A) = 6,0$  kN



### Intermediate support:

screw with load distributor  
characteristic tensile force  $F_{z,k}(b_B) = 4,35$  kN

The connection load distributor / supporting structure must be calculated separately!

Line  $b_A$ : Minimum end support width  $b_A$  in [mm] for the relevant permissible wind-pressure load

Line  $b_B$ : Minimum intermediate support width  $b_B$  in [mm] for the relevant permissible wind-pressure load

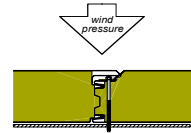
Lines CG I Permissible wind load in  $[\text{kN}/\text{m}^2]$  with due consideration of the deflection restriction  $\max f = L/100$ . The following CG II, CG III: temperature differences between the cover sheets have been taken into consideration for secondary loads in the cover sheets, in accordance with the general approval issued by the building inspection authorities:

Season	Color Group	$t_{\text{outdoor}} - t_{\text{indoor}}$
summer	I / II / III	+30 / +40 / +55 °C
winter	all	-40 °C

The tables do not replace the structural analysis required for execution of the constructional work. The permissible wind loads in specified  $[\text{kN}/\text{m}^2]$  have been determined in accordance with the provisions of official approval no. Z-10.4-235 issued by the German building inspection authorities.

Please note the maximum length supplied, especially in the case of multi-span girders.

## Load tables for wind pressure



**Single-span girder, permissible wind pressure load perm.  $w_p$  [kN/m<sup>2</sup>]**

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50	
$b_A = 60$ [mm]	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
<b>CG I-III</b>	3.24	2.60	2.16	1.85	1.62	1.44	1.30	1.18	1.08	1.00	0.93	0.87	0.81	0.76	0.72	0.68	0.65	0.62	0.59	0.56	0.54	0.52	0.50	
$b_A \leq 80$ [mm]	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
<b>CG I-III</b>	4.33	3.46	2.88	2.47	2.16	1.92	1.73	1.57	1.44	1.33	1.24	1.15	1.08	1.02	0.96	0.91	0.87	0.82	0.79	0.75	0.72	0.69	0.67	

**Two-span girder, permissible wind pressure load perm.  $w_p$  [kN/m<sup>2</sup>]**

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50	
$b_A = 60$ [mm]	40	40	40	40	40																			
<b>CG I</b>	1.06	0.62	0.36	0.20	0.10																			
$b_B = 60$ [mm]	60	60	60	60	60																			
$b_A \leq 60$ [mm]	50	45	40	40	40	40	40	40	40	40	40	40	40	40	40	40								
<b>CG I</b>	2.70	1.95	1.45	1.13	0.90	0.75	0.64	0.55	0.50	0.45	0.42	0.39	0.37	0.36	0.34	0.32								
$b_B \leq 100$ [mm]	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	99								
$b_A \leq 80$ [mm]	70	70	70	66	63	61	58	57	56	55	55	55	55	55	40	40								
<b>CG I</b>	3.78	3.02	2.52	2.05	1.70	1.45	1.26	1.12	1.01	0.92	0.85	0.79	0.74	0.70	0.48	0.32								
$b_B \leq 140$ [mm]	140	140	140	140	140	140	140	140	140	140	140	140	140	140	117	99								

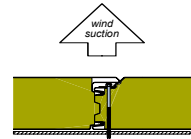
**Three-span girder, permissible wind pressure load perm.  $w_p$  [kN/m<sup>2</sup>]**

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50	
$b_A = 60$ [mm]	40	40	41	42	42	42	42	42	41	40	40	40	40	40										
<b>CG I-II</b>	1.23	0.85	0.63	0.51	0.43	0.38	0.36	0.33	0.32	0.31	0.30	0.29	0.28	0.28										
$b_B = 60$ [mm]	60	60	60	60	60	60	60	60	60	60	60	60	60	60										
$b_A \leq 60$ [mm]	50	50	52	53	53	53	52	51	51	50	49	50	50	47										
<b>CG I-II</b>	2.70	2.16	1.74	1.45	1.25	1.11	1.00	0.92	0.85	0.80	0.75	0.71	0.68	0.60										
$b_B \leq 100$ [mm]	100	100	100	100	100	100	100	100	100	100	100	100	100	95										
$b_A \leq 80$ [mm]	70	70	70	70	70	70	70	70	70	70	70	70	58	47										
<b>CG I-II</b>	3.78	3.03	2.52	2.16	1.89	1.68	1.51	1.38	1.26	1.16	1.08	1.01	0.79	0.60										
$b_B \leq 140$ [mm]	140	140	140	140	140	140	140	140	140	140	140	140	117	95										

**Four-span girder, permissible wind pressure load perm.  $w_p$  [kN/m<sup>2</sup>]**

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50	
$b_A = 60$ [mm]	46	49	49	49	48	47	46	44	43	42														
<b>CG I-II</b>	1.35	0.98	0.77	0.64	0.55	0.49	0.44	0.40	0.38	0.35														
$b_B = 60$ [mm]	60	60	60	60	60	60	60	60	60	60														
$b_A \leq 60$ [mm]	55	58	59	59	58	57	56	54	52	51														
<b>CG I-II</b>	2.70	2.16	1.80	1.54	1.35	1.20	1.08	0.98	0.90	0.83														
$b_B \leq 100$ [mm]	100	100	100	100	100	100	100	100	100	100														
$b_A \leq 80$ [mm]	70	70	70	70	70	70	70	70	70	64														
<b>CG I-II</b>	3.78	3.03	2.52	2.16	1.89	1.68	1.51	1.38	1.26	1.07														
$b_B \leq 140$ [mm]	140	140	140	140	140	140	140	140	140	129														

## Load tables for wind suction



### Single-span girder, permissible wind suction load perm. $w_s$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50
CG I-III	5.72	4.57	3.81	3.26	2.86	2.54	2.29	2.08	1.91	1.76	1.63	1.52	1.43	1.34	1.27	1.20	1.14	1.08	0.99	0.90	0.83	0.76	0.71

### Two-span girder, permissible wind suction load perm. $w_s$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50	
CG I	2.13	1.69	1.35	1.06	0.86	0.72	0.62	0.54	0.48	0.44	0.40	0.37	0.35	0.33	0.32	0.31								
CG II																								
CG III																								

### Three-span girder, permissible wind suction load perm. $w_s$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50	
CG I	2.13	1.69	1.40	1.19	1.04	0.92	0.82	0.74	0.68	0.62	0.58	0.54	0.50	0.47	0.45	0.42	0.40	0.38						
CG II	2.13	1.66	1.30	1.07	0.91	0.80	0.73	0.67	0.62	0.59	0.56	0.53	0.50	0.47										
CG III																								

### Four-span girder, permissible wind suction load perm. $w_s$ [kN/m<sup>2</sup>]

Span L[m]	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	5.25	5.50	5.75	6.00	6.25	6.50	
CG I	2.14	1.70	1.41	1.20	1.04	0.92	0.83	0.75	0.68	0.63	0.58	0.54	0.51	0.47	0.45	0.42	0.40							
CG II	2.14	1.70	1.41	1.20	1.04	0.92	0.82	0.75	0.68	0.63														
CG III																								

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