

### BauBuche Q

as per declaration of performance PM-003-2015

**EXAMPLE 1** wanted: necessary board thickness

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Specified: Snow = 2.5 kN/m<sup>2</sup>  
Roofing + self-weight of board = 1.2 kN/m<sup>2</sup>  
 $q = 2.5 + 1.2 = 3.70 \text{ kN/m}^2$   
Double span continuous beam with  $l = 2.00 \text{ m}$   
 $w_{\max} = l/300$

Required:  $h = 40 \text{ mm}$  ( $q = 4.0 \text{ kN/m}^2$ ,  $l = 2.13 \text{ m}$ )

**EXAMPLE 2** wanted: necessary board thickness

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Specified: Snow = 2.5 kN/m<sup>2</sup>  
Roofing + self-weight of board = 1.2 kN/m<sup>2</sup>  
 $q = 2.5 + 1.2 = 3.70 \text{ kN/m}^2$   
Cantilever  $l = 1.00 \text{ m}$ , cover layer in load-bearing direction  
 $w_{\max} = l/150$

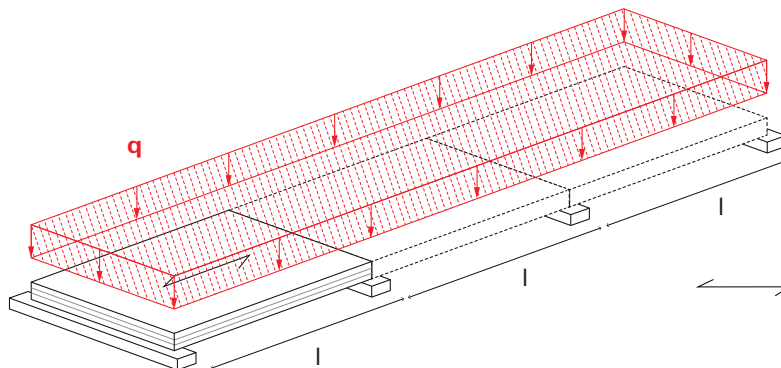
Required:  $h = 60 \text{ mm}$  ( $q = 4.0 \text{ kN/m}^2$ ,  $l = 1.12 \text{ m}$ )

**Note:** Board thicknesses of 40 and 60 mm are currently available.

Single, double and triple span continuous beams

Max. span l [m]

Load q [kN/m <sup>2</sup> ]	Single-span		Double-span		Triple-span continuous beam	
	40	60	40	60	40	60 [mm]
1.0 $w_{max} = l/200$ $w_{max} = l/300$	2.89	4.34	3.87	5.81	3.60	5.39
	2.53	3.79	3.38	5.07	3.14	4.71
1.5 $w_{max} = l/200$ $w_{max} = l/300$	2.53	3.79	3.38	5.07	3.14	4.71
	2.21	3.31	2.96	4.43	2.74	4.12
2.0 $w_{max} = l/200$ $w_{max} = l/300$	2.29	3.44	3.07	4.61	2.85	4.28
	2.00	3.01	2.69	4.03	2.49	3.74
2.5 $w_{max} = l/200$ $w_{max} = l/300$	2.13	3.20	2.85	4.28	2.65	3.97
	1.86	2.79	2.49	3.74	2.31	3.47
3.0 $w_{max} = l/200$ $w_{max} = l/300$	2.00	3.01	2.69	4.03	2.49	3.74
	1.75	2.63	2.35	3.52	2.18	3.27
3.5 $w_{max} = l/200$ $w_{max} = l/300$	1.90	2.86	2.55	3.83	2.37	3.55
	1.66	2.50	2.23	3.34	2.07	3.10
4.0 $w_{max} = l/200$ $w_{max} = l/300$	1.82	2.73	2.44	3.66	2.26	3.40
	1.59	2.39	2.13	3.20	1.98	2.97
4.5 $w_{max} = l/200$ $w_{max} = l/300$	1.75	2.63	2.35	3.52	2.18	3.27
	1.53	2.29	2.05	3.07	1.90	2.85
5.0 $w_{max} = l/200$ $w_{max} = l/300$	1.69	2.54	2.26	3.40	2.10	3.15
	1.48	2.22	1.98	2.97	1.84	2.76



Grain direction of the cover layer

**Note:** The deformation criterion is always the decisive factor.

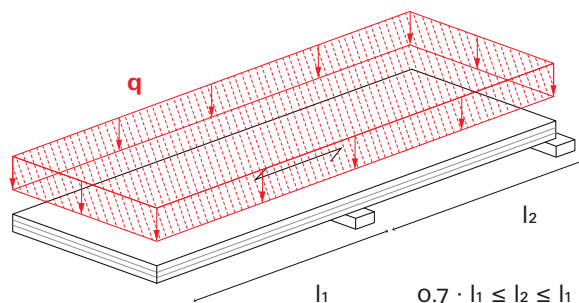
No wood creeping is taken into account. No vibration-damping requirements are taken into account. No fire protection requirements are taken into account. The self-weight of the board must be taken into account (8 kN/m<sup>3</sup>). Uniform load. Equal span widths. Span-by-span load is not taken into account. An approximate calculation is made using  $k_{mod} = 0.8$ ;  $\gamma_m = 1.3$  and  $\gamma_F = 1.4$ . Deformation under full load.

**The tables are used for preliminary dimensioning. An accurate structural analysis must always be carried out prior to construction.**

**Cantilever – cover layer in load-bearing direction**

Max. span  $l_1$  [m]

Load $q$ [kN/m <sup>2</sup> ]		Board thickness [mm]	
		40	60
1.0	$w_{max} = l/100$	1.36	2.04
	$w_{max} = l/150$	1.19	1.78
1.5	$w_{max} = l/100$	1.19	1.78
	$w_{max} = l/150$	1.04	1.56
2.0	$w_{max} = l/100$	1.08	1.62
	$w_{max} = l/150$	0.94	1.41
2.5	$w_{max} = l/100$	1.00	1.50
	$w_{max} = l/150$	0.88	1.31
3.0	$w_{max} = l/100$	0.94	1.41
	$w_{max} = l/150$	0.82	1.24
3.5	$w_{max} = l/100$	0.90	1.34
	$w_{max} = l/150$	0.78	1.17
4.0	$w_{max} = l/100$	0.86	1.29
	$w_{max} = l/150$	0.75	1.12
4.5	$w_{max} = l/100$	0.82	1.24
	$w_{max} = l/150$	0.72	1.08
5.0	$w_{max} = l/100$	0.80	1.19
	$w_{max} = l/150$	0.69	1.04



← Grain direction of the cover layer

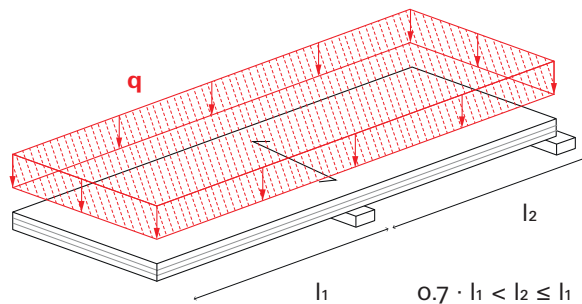
**Note:** The deformation criterion at the end of the cantilever is always the decisive factor.

No wood creeping is taken into account. No vibration-damping requirements are taken into account. No fire protection requirements are taken into account. The self-weight of the board must be taken into account (8 kN/m<sup>3</sup>). Uniform load. Equal span widths. Span-by-span load is not taken into account. An approximate calculation is made using  $k_{mod} = 0.8$ ;  $\gamma_m = 1.3$  and  $\gamma_F = 1.4$ . Deformation under full load.

**The tables are used for preliminary dimensioning. An accurate structural analysis must always be carried out prior to construction.**

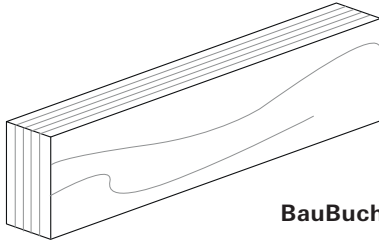
**Cantilever – cover layer transverse to load-bearing direction**  
**Max. span  $l_1$  [m]**

Load $q$ [kN/m <sup>2</sup> ]		Board thickness [mm]	
		40	60
1.0	$w_{\max} = l/100$	0.78	1.17
	$w_{\max} = l/150$	0.68	1.02
1.5	$w_{\max} = l/100$	0.68	1.02
	$w_{\max} = l/150$	0.59	0.89
2.0	$w_{\max} = l/100$	0.62	0.93
	$w_{\max} = l/150$	0.54	0.81
2.5	$w_{\max} = l/100$	0.57	0.86
	$w_{\max} = l/150$	0.50	0.75
3.0	$w_{\max} = l/100$	0.54	0.81
	$w_{\max} = l/150$	0.47	0.71
3.5	$w_{\max} = l/100$	0.51	0.77
	$w_{\max} = l/150$	0.45	0.67
4.0	$w_{\max} = l/100$	0.49	0.73
	$w_{\max} = l/150$	0.43	0.64
4.5	$w_{\max} = l/100$	0.47	0.71
	$w_{\max} = l/150$	0.41	0.62
5.0	$w_{\max} = l/100$	0.45	0.68
	$w_{\max} = l/150$	0.40	0.60



← Grain direction of the cover layer  
**Note:** The deformation criterion at the end of the cantilever is always the decisive factor.

No wood creeping is taken into account. No vibration-damping requirements are taken into account. No fire protection requirements are taken into account. The self-weight of the board must be taken into account (8 kN/m<sup>3</sup>). Uniform load. Equal span widths. Span-by-span load is not taken into account. An approximate calculation is made using  $k_{\text{mod}} = 0.8$ ;  $\gamma_m = 1.3$  and  $\gamma_F = 1.4$ . Deformation under full load.  
**The tables are used for preliminary dimensioning. An accurate structural analysis must always be carried out prior to construction.**



### BauBuche S

as per declaration of performance PM-003-2015

#### EXAMPLE 1

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Specified: Snow = 2.5 kN/m<sup>2</sup>  
Roofing + self-weight of beam = 1.2 kN/m<sup>2</sup>  
Tributary width e = 750 mm  
Beam width b = 60 mm  
Single-span with l = 4.5 m  
 $q = (2.5 + 1.2) \cdot 750 / 1000 = 2.8 \text{ kN/m}$

Required: h = 240 mm (q = 3 kN/m, l = 4.63 m)

#### EXAMPLE 2

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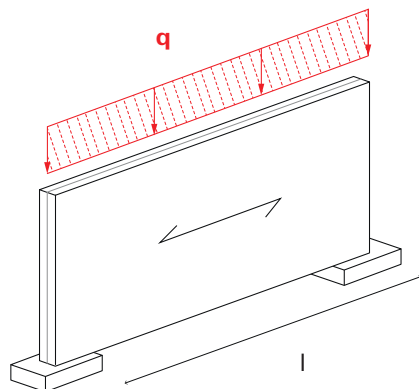
Specified: Snow = 9.5 kN/m<sup>2</sup>  
Roofing + self-weight of beam = 3.5 kN/m<sup>2</sup>  
Beam height h = 400 mm  
Double-span with l = 6.0 m  
 $q = (9.5 + 3.5) = 13.0 \text{ kN/m}$

Required: w = 80 mm (q = 14 kN/m, l = 6.23 m)

**Note:** Board thicknesses of 40 and 60 mm are currently available.

**Single-span – board thickness = 40 mm**  
**Max. span l [m]**

Beam height	Load q [kN/m]														
	1	2	3	4	5	6	7	8	9	10	12	14	16	18	20
80	1.94	1.54	1.35	1.22	1.14	1.07	1.02	0.97	0.93	0.90	0.85	0.81	0.77	0.74	0.72
120	2.92	2.31	2.02	1.84	1.70	1.60	1.52	1.46	1.40	1.35	1.27	1.21	1.16	1.11	1.07
160	3.89	3.08	2.69	2.45	2.27	2.14	2.03	1.94	1.87	1.80	1.70	1.61	1.54	1.48	1.43
200	4.86	3.86	3.37	3.06	2.84	2.67	2.54	2.43	2.34	2.26	2.12	2.02	1.93	1.85	1.79
240	5.83	4.63	4.04	3.67	3.41	3.21	3.05	2.92	2.80	2.71	2.55	2.42	2.31	2.22	2.15
280	6.80	5.40	4.72	4.28	3.98	3.74	3.56	3.40	3.27	3.16	2.97	2.82	2.70	2.60	2.51
320	7.77	6.17	5.39	4.90	4.55	4.28	4.06	3.89	3.74	3.61	3.40	3.23	3.08	2.97	2.86
360	8.75	6.94	6.06	5.51	5.11	4.81	4.57	4.37	4.20	4.06	3.82	3.63	3.47	3.34	3.22
400	9.72	7.71	6.74	6.12	5.68	5.35	5.08	4.86	4.67	4.51	4.24	4.03	3.86	3.71	3.58
440	10.69	8.48	7.41	6.73	6.25	5.88	5.59	5.34	5.14	4.96	4.67	4.43	4.24	4.08	3.94
480	11.66	9.25	8.08	7.35	6.82	6.42	6.10	5.83	5.61	5.41	5.09	4.84	4.63	4.45	4.30
520	12.63	10.03	8.76	7.96	7.39	6.95	6.60	6.32	6.07	5.86	5.52	5.24	5.01	4.82	4.65
560	13.60	10.80	9.43	8.57	7.96	7.49	7.11	6.80	6.54	6.31	5.94	5.64	5.40	5.19	5.01
600	14.58	11.57	10.11	9.18	8.52	8.02	7.62	7.29	7.01	6.77	6.37	6.05	5.78	5.56	5.37
640	15.55	12.34	10.78	9.79	9.09	8.56	8.13	7.77	7.47	7.22	6.79	6.45	6.17	5.93	5.73
680	16.52	13.11	11.45	10.41	9.66	9.09	8.64	8.26	7.94	7.67	7.22	6.85	6.56	6.30	6.07
720	17.49	13.88	12.13	11.02	10.23	9.63	9.14	8.75	8.41	8.12	7.64	7.26	6.94	6.67	6.41
760	18.46	14.65	12.80	11.63	10.80	10.16	9.65	9.23	8.88	8.57	8.06	7.66	7.33	7.04	6.74
800	19.43	15.42	13.47	12.24	11.37	10.70	10.16	9.72	9.34	9.02	8.49	8.06	7.71	7.42	7.07
840	20.41	16.20	14.15	12.85	11.93	11.23	10.67	10.20	9.81	9.47	8.91	8.47	8.10	7.79	7.40
880	21.38	16.97	14.82	13.47	12.50	11.76	11.18	10.69	10.28	9.92	9.34	8.87	8.48	8.15	7.74
920	22.35	17.74	15.50	14.08	13.07	12.30	11.68	11.17	10.74	10.37	9.76	9.27	8.87	8.50	8.07
960	23.32	18.51	16.17	14.69	13.64	12.83	12.19	11.66	11.21	10.82	10.19	9.68	9.25	8.85	8.39
1000	24.29	19.28	16.84	15.30	14.21	13.37	12.70	12.15	11.68	11.28	10.61	10.08	9.64	9.19	8.72



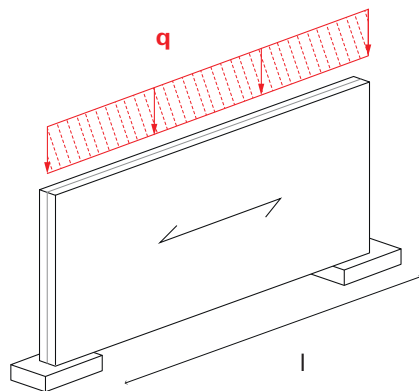
- Deflection decisive ( $l/300$ )
- Bending moment decisive
- Shear force decisive

↔ Grain direction

No wood creeping is taken into account. No vibration-damping requirements are taken into account. No fire protection requirements are taken into account. The self-weight of the board must be taken into account ( $8 \text{ kN/m}^3$ ). Uniform load. Equal span widths. Span-by-span load is not taken into account. An approximate calculation is made using  $k_{\text{mod}} = 0.8$ ;  $\gamma_m = 1.3$  and  $\gamma_F = 1.4$ .  $w_{\text{max}} = l/300$  under full load. The compression zone of the beams is continuously supported. **The tables are used for preliminary dimensioning. An accurate structural analysis must always be carried out prior to construction.**

**Single-span – board thickness = 60 mm**  
**Max. span l [m]**

Beam height	Load q [kN/m]														
	1	2	3	4	5	6	7	8	9	10	12	14	16	18	20
80	2.22	1.77	1.54	1.40	1.30	1.22	1.16	1.11	1.07	1.03	0.97	0.92	0.88	0.85	0.82
120	3.34	2.65	2.31	2.10	1.95	1.84	1.74	1.67	1.60	1.55	1.46	1.38	1.32	1.27	1.23
160	4.45	3.53	3.08	2.80	2.60	2.45	2.33	2.22	2.14	2.07	1.94	1.85	1.77	1.70	1.64
200	5.56	4.41	3.86	3.50	3.25	3.06	2.91	2.78	2.67	2.58	2.43	2.31	2.21	2.12	2.05
240	6.67	5.30	4.63	4.20	3.90	3.67	3.49	3.34	3.21	3.10	2.92	2.77	2.65	2.55	2.46
280	7.79	6.18	5.40	4.91	4.55	4.28	4.07	3.89	3.74	3.61	3.40	3.23	3.09	2.97	2.87
320	8.90	7.06	6.17	5.61	5.20	4.90	4.65	4.45	4.28	4.13	3.89	3.69	3.53	3.40	3.28
360	10.01	7.95	6.94	6.31	5.85	5.51	5.23	5.01	4.81	4.65	4.37	4.15	3.97	3.82	3.69
400	11.12	8.83	7.71	7.01	6.50	6.12	5.81	5.56	5.35	5.16	4.86	4.62	4.41	4.24	4.10
440	12.24	9.71	8.48	7.71	7.16	6.73	6.40	6.12	5.88	5.68	5.34	5.08	4.86	4.67	4.51
480	13.35	10.59	9.25	8.41	7.81	7.35	6.98	6.67	6.42	6.20	5.83	5.54	5.30	5.09	4.92
520	14.46	11.48	10.03	9.11	8.46	7.96	7.56	7.23	6.95	6.71	6.32	6.00	5.74	5.52	5.33
560	15.57	12.36	10.80	9.81	9.11	8.57	8.14	7.79	7.49	7.23	6.80	6.46	6.18	5.94	5.74
600	16.68	13.24	11.57	10.51	9.76	9.18	8.72	8.34	8.02	7.74	7.29	6.92	6.62	6.37	6.15
640	17.80	14.13	12.34	11.21	10.41	9.79	9.30	8.90	8.56	8.26	7.77	7.38	7.06	6.79	6.56
680	18.91	15.01	13.11	11.91	11.06	10.41	9.89	9.45	9.09	8.78	8.26	7.85	7.50	7.22	6.97
720	20.02	15.89	13.88	12.61	11.71	11.02	10.47	10.01	9.63	9.29	8.75	8.31	7.95	7.64	7.38
760	21.13	16.77	14.65	13.31	12.36	11.63	11.05	10.57	10.16	9.81	9.23	8.77	8.39	8.06	7.79
800	22.25	17.66	15.42	14.01	13.01	12.24	11.63	11.12	10.70	10.33	9.72	9.23	8.83	8.49	8.20
840	23.36	18.54	16.20	14.72	13.66	12.85	12.21	11.68	11.23	10.84	10.20	9.69	9.27	8.91	8.61
880	24.47	19.42	16.97	15.42	14.31	13.47	12.79	12.24	11.76	11.36	10.69	10.15	9.71	9.34	9.02
920	25.58	20.31	17.74	16.12	14.96	14.08	13.37	12.79	12.30	11.87	11.17	10.61	10.15	9.76	9.43
960	26.70	21.19	18.51	16.82	15.61	14.69	13.96	13.35	12.83	12.39	11.66	11.08	10.59	10.19	9.83
1000	27.81	22.07	19.28	17.52	16.26	15.30	14.54	13.90	13.37	12.91	12.15	11.54	11.04	10.61	10.24



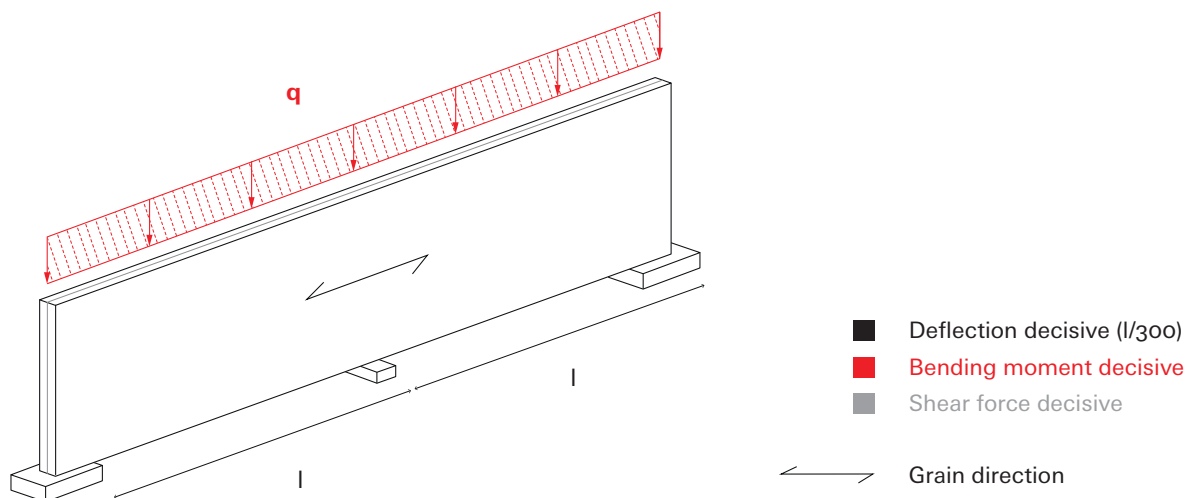
- Deflection decisive ( $l/300$ )
- Bending moment decisive
- Shear force decisive

↔ Grain direction

No wood creeping is taken into account. No vibration-damping requirements are taken into account. No fire protection requirements are taken into account. The self-weight of the board must be taken into account ( $8 \text{ kN/m}^3$ ). Uniform load. Equal span widths. Span-by-span load is not taken into account. An approximate calculation is made using  $k_{\text{mod}} = 0.8$ ;  $\gamma_m = 1.3$  and  $\gamma_F = 1.4$ .  $w_{\text{max}} = l/300$  under full load. The compression zone of the beams is continuously supported. **The tables are used for preliminary dimensioning. An accurate structural analysis must always be carried out prior to construction.**

**Double-span – board thickness = 40 mm**  
**Max. span l [m]**

Beam height	Load q [kN/m]														
	1	2	3	4	5	6	7	8	9	10	12	14	16	18	20
80	2.60	2.07	1.81	1.64	1.50	1.37	1.27	1.19	1.12	1.06	0.97	0.86	0.75	0.67	0.60
120	3.90	3.10	2.71	2.46	2.25	2.05	1.90	1.78	1.68	1.59	1.45	1.29	1.13	1.00	0.90
160	5.21	4.13	3.61	3.28	3.00	2.74	2.54	2.37	2.24	2.12	1.94	1.71	1.50	1.33	1.20
200	6.51	5.17	4.51	4.10	3.75	3.42	3.17	2.96	2.80	2.65	2.42	2.14	1.88	1.67	1.50
240	7.81	6.20	5.42	4.92	4.50	4.11	3.80	3.56	3.35	3.18	2.91	2.57	2.25	2.00	1.80
280	9.11	7.23	6.32	5.74	5.25	4.79	4.44	4.15	3.91	3.71	3.39	3.00	2.63	2.33	2.10
320	10.41	8.26	7.22	6.56	5.98	5.46	5.05	4.73	4.46	4.23	3.86	3.43	3.00	2.67	2.40
360	11.71	9.30	8.12	7.38	6.68	6.10	5.64	5.28	4.98	4.72	4.31	3.86	3.38	3.00	2.70
400	13.02	10.33	9.03	8.20	7.37	6.73	6.23	5.83	5.50	5.21	4.76	4.29	3.75	3.33	3.00
440	14.32	11.36	9.93	9.02	8.06	7.36	6.81	6.37	6.01	5.70	5.21	4.72	4.13	3.67	3.30
480	15.62	12.40	10.83	9.78	8.75	7.99	7.40	6.92	6.52	6.19	5.65	5.14	4.50	4.00	3.60
520	16.92	13.43	11.73	10.55	9.43	8.61	7.97	7.46	7.03	6.67	6.09	5.57	4.88	4.33	3.90
560	18.22	14.46	12.64	11.31	10.12	9.23	8.55	8.00	7.54	7.15	6.53	6.00	5.25	4.67	4.20
600	19.52	15.50	13.54	12.07	10.79	9.85	9.12	8.53	8.04	7.63	6.97	6.43	5.63	5.00	4.50
640	20.83	16.53	14.44	12.82	11.47	10.47	9.69	9.07	8.55	8.11	7.40	6.85	6.00	5.33	4.80
680	22.13	17.56	15.34	13.57	12.14	11.08	10.26	9.60	9.05	8.58	7.84	7.26	6.38	5.67	5.10
720	23.43	18.60	16.25	14.32	12.81	11.69	10.83	10.13	9.55	9.06	8.27	7.66	6.75	6.00	5.40
760	24.73	19.63	17.15	15.07	13.48	12.30	11.39	10.66	10.05	9.53	8.70	8.06	7.13	6.33	5.70
800	26.03	20.66	18.05	15.81	14.14	12.91	11.95	11.18	10.54	10.00	9.13	8.45	7.50	6.67	6.00
840	27.33	21.70	18.95	16.56	14.81	13.52	12.52	11.71	11.04	10.47	9.56	8.85	7.88	7.00	6.30
880	28.64	22.73	19.86	17.30	15.47	14.12	13.07	12.23	11.53	10.94	9.99	9.25	8.25	7.34	6.60
920	29.94	23.76	20.76	18.03	16.13	14.72	13.63	12.75	12.02	11.41	10.41	9.64	8.63	7.67	6.90
960	31.24	24.79	21.66	18.77	16.79	15.33	14.19	13.27	12.51	11.87	10.84	10.03	9.00	8.00	7.20
1000	32.54	25.83	22.52	19.50	17.45	15.93	14.74	13.79	13.00	12.34	11.26	10.43	9.38	8.34	7.50

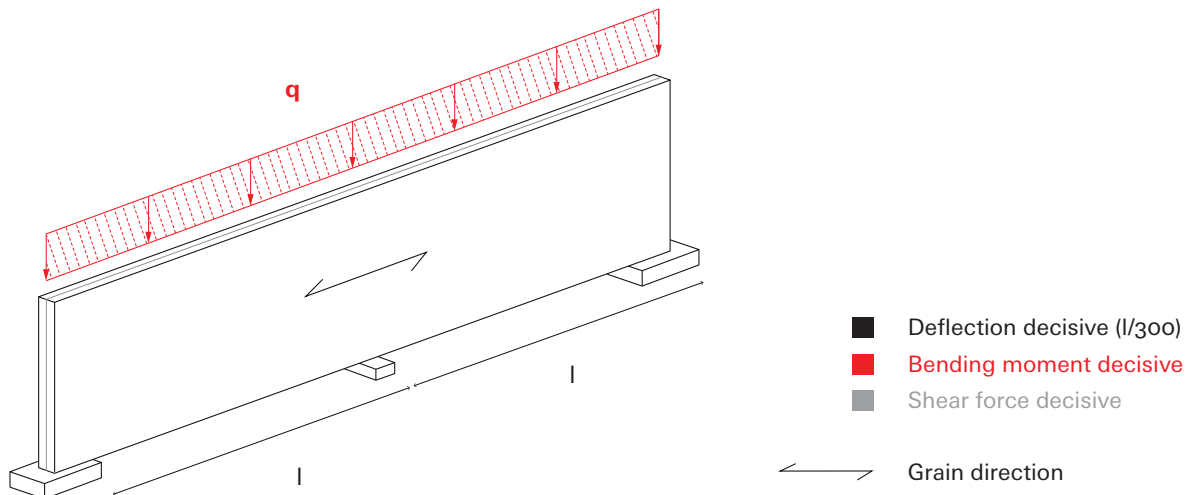


No wood creeping is taken into account. No vibration-damping requirements are taken into account. No fire protection requirements are taken into account. The self-weight of the board must be taken into account ( $8 \text{ kN/m}^3$ ). Uniform load. Equal span widths. Span-by-span load is not taken into account. An approximate calculation is made using  $k_{\text{mod}} = 0.8$ ;  $\gamma_m = 1.3$  and  $\gamma_F = 1.4$ .  $w_{\text{max}} = l/300$  under full load. The compression zone of the beams is continuously supported. **The tables are used for preliminary dimensioning. An accurate structural analysis must always be carried out prior to construction.**

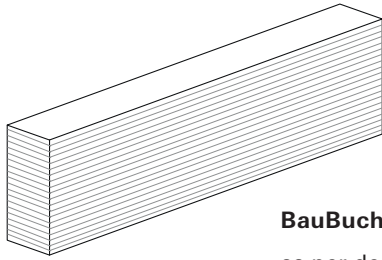


**Double-span – board thickness = 60 mm**  
**Max. span l [m]**

Beam height	Load q [kN/m]														
	1	2	3	4	5	6	7	8	9	10	12	14	16	18	20
80	2.98	2.37	2.07	1.88	1.74	1.64	1.55	1.45	1.37	1.30	1.19	1.10	1.03	0.97	0.90
120	4.47	3.55	3.10	2.82	2.61	2.46	2.33	2.18	2.05	1.95	1.78	1.65	1.54	1.45	1.35
160	5.96	4.73	4.13	3.75	3.49	3.28	3.11	2.91	2.74	2.60	2.37	2.20	2.05	1.94	1.80
200	7.45	5.91	5.17	4.69	4.36	4.10	3.88	3.63	3.42	3.25	2.96	2.75	2.57	2.42	2.25
240	8.94	7.10	6.20	5.63	5.23	4.92	4.66	4.36	4.11	3.90	3.56	3.29	3.08	2.91	2.70
280	10.43	8.28	7.23	6.57	6.10	5.74	5.43	5.08	4.79	4.55	4.15	3.84	3.59	3.39	3.15
320	11.92	9.46	8.26	7.51	6.97	6.56	6.19	5.79	5.46	5.18	4.73	4.38	4.09	3.86	3.60
360	13.41	10.64	9.30	8.45	7.84	7.38	6.91	6.47	6.10	5.78	5.28	4.89	4.57	4.31	4.05
400	14.90	11.83	10.33	9.39	8.71	8.20	7.63	7.14	6.73	6.38	5.83	5.40	5.05	4.76	4.50
440	16.39	13.01	11.36	10.33	9.59	9.02	8.35	7.81	7.36	6.98	6.37	5.90	5.52	5.21	4.94
480	17.88	14.19	12.40	11.26	10.46	9.78	9.06	8.47	7.99	7.58	6.92	6.40	5.99	5.65	5.36
520	19.37	15.37	13.43	12.20	11.33	10.55	9.77	9.14	8.61	8.17	7.46	6.91	6.46	6.09	5.78
560	20.86	16.56	14.46	13.14	12.20	11.31	10.47	9.79	9.23	8.76	8.00	7.40	6.93	6.53	6.19
600	22.35	17.74	15.50	14.08	13.07	12.07	11.17	10.45	9.85	9.35	8.53	7.90	7.39	6.97	6.61
640	23.84	18.92	16.53	15.02	13.94	12.82	11.87	11.10	10.47	9.93	9.07	8.39	7.85	7.40	7.02
680	25.33	20.10	17.56	15.96	14.81	13.57	12.57	11.76	11.08	10.51	9.60	8.89	8.31	7.84	7.43
720	26.82	21.29	18.60	16.90	15.68	14.32	13.26	12.40	11.69	11.09	10.13	9.38	8.77	8.27	7.84
760	28.31	22.47	19.63	17.83	16.51	15.07	13.95	13.05	12.30	11.67	10.66	9.87	9.23	8.70	8.25
800	29.80	23.65	20.66	18.77	17.32	15.81	14.64	13.70	12.91	12.25	11.18	10.35	9.68	9.13	8.66
840	31.29	24.84	21.70	19.71	18.14	16.56	15.33	14.34	13.52	12.82	11.71	10.84	10.14	9.56	9.07
880	32.78	26.02	22.73	20.65	18.95	17.30	16.01	14.98	14.12	13.40	12.23	11.32	10.59	9.99	9.47
920	34.27	27.20	23.76	21.59	19.76	18.03	16.70	15.62	14.72	13.97	12.75	11.81	11.04	10.41	9.88
960	35.76	28.38	24.79	22.53	20.56	18.77	17.38	16.26	15.33	14.54	13.27	12.29	11.49	10.84	10.28
1000	37.25	29.57	25.83	23.47	21.37	19.50	18.06	16.89	15.93	15.11	13.79	12.77	11.94	11.26	10.68



No wood creeping is taken into account. No vibration-damping requirements are taken into account. No fire protection requirements are taken into account. The self-weight of the board must be taken into account ( $8 \text{ kN/m}^3$ ). Uniform load. Equal span widths. Span-by-span load is not taken into account. An approximate calculation is made using  $k_{\text{mod}} = 0.8$ ;  $\gamma_m = 1.3$  and  $\gamma_F = 1.4$ .  $w_{\text{max}} = l/300$  under full load. The compression zone of the beams is continuously supported. **The tables are used for preliminary dimensioning. An accurate structural analysis must always be carried out prior to construction.**



### BauBuche GL70

as per declaration of performance PM-004-2015

#### EXAMPLE 1

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Specified: Snow = 2.5 kN/m<sup>2</sup>  
Roofing + self-weight of beam = 0.7 kN/m<sup>2</sup>  
tributary width e = 1500 mm  
Beam width b = 80 mm  
Single-span with l = 7.5 m  
 $q = (2.5 + 0.7) \cdot 1500/1000 = 4.8 \text{ kN/m}$

Required: h = 440 mm (q = 5 kN/m, l = 7.86 m)

#### EXAMPLE 2

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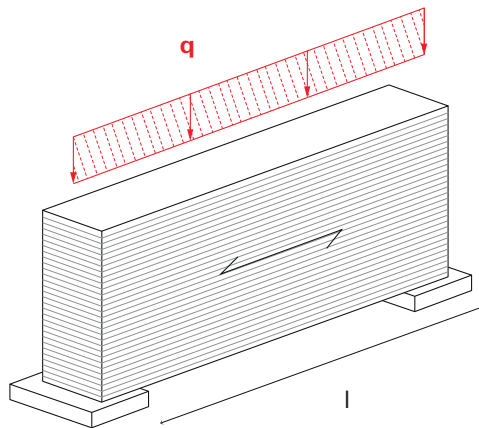
Specified: Snow = 17.0 kN/m  
Roofing + self-weight of beam = 7.0 kN/m  
Beam height h = 400 mm  
Double-span with l = 4.5 m  
 $q = (17.0 + 7.0) = 24.0 \text{ kN/m}$

Required: w = 160 mm (q = 25 kN/m, l = 5.31 m)

**Note:** Widths of 50 – 300 mm are allowed as per the approval.

**Single-span – beam width = 80 mm**  
**Max. span l [m]**

Beam height	Load q [kN/m]																
	1	2	3	4	5	6	7	8	9	10	12	14	16	18	20	25	30
120	3.67	2.91	2.54	2.31	2.14	2.02	1.92	1.83	1.76	1.70	1.60	1.52	1.45	1.40	1.35	1.25	1.12
160	4.89	3.88	3.39	3.08	2.86	2.69	2.55	2.44	2.35	2.27	2.13	2.03	1.94	1.86	1.80	1.67	1.39
200	6.11	4.85	4.24	3.85	3.57	3.36	3.19	3.05	2.94	2.84	2.67	2.53	2.42	2.33	2.25	1.97	1.65
240	7.33	5.82	5.08	4.62	4.29	4.03	3.83	3.67	3.52	3.40	3.20	3.04	2.91	2.80	2.70	2.26	1.89
280	8.55	6.79	5.93	5.39	5.00	4.71	4.47	4.28	4.11	3.97	3.74	3.55	3.39	3.26	3.15	2.54	2.12
320	9.77	7.76	6.78	6.16	5.72	5.38	5.11	4.89	4.70	4.54	4.27	4.06	3.88	3.73	3.51	2.81	2.34
360	11.00	8.73	7.62	6.93	6.43	6.05	5.75	5.50	5.29	5.10	4.80	4.56	4.36	4.20	3.84	3.07	2.56
400	12.22	9.70	8.47	7.70	7.15	6.72	6.39	6.11	5.87	5.67	5.34	5.07	4.85	4.61	4.15	3.32	2.77
440	13.44	10.67	9.32	8.47	7.86	7.40	7.03	6.72	6.46	6.24	5.87	5.58	5.33	4.95	4.46	3.57	2.97
480	14.66	11.64	10.17	9.24	8.57	8.07	7.66	7.33	7.05	6.81	6.40	6.08	5.82	5.29	4.76	3.81	3.17
520	15.88	12.61	11.01	10.01	9.29	8.74	8.30	7.94	7.64	7.37	6.94	6.59	6.30	5.62	5.05	4.04	3.37
560	17.11	13.58	11.86	10.78	10.00	9.41	8.94	8.55	8.22	7.94	7.47	7.10	6.68	5.94	5.34	4.27	3.56
600	18.33	14.55	12.71	11.55	10.72	10.09	9.58	9.16	8.81	8.51	8.01	7.60	7.03	6.25	5.63	4.50	3.75

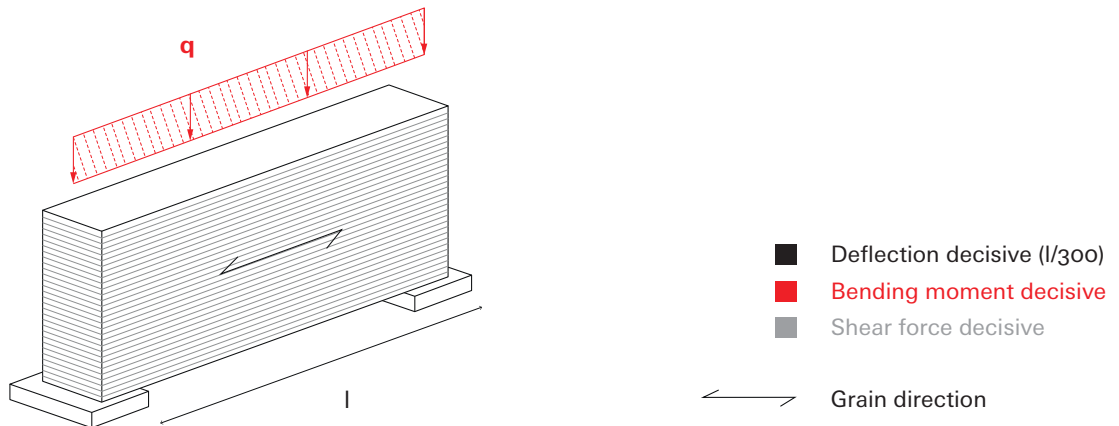


- Deflection decisive ( $l/300$ )
- Bending moment decisive
- Shear force decisive
- ↔ Grain direction

No wood creeping is taken into account. No vibration-damping requirements are taken into account. No fire protection requirements are taken into account. The self-weight of the board must be taken into account ( $8 \text{ kN/m}^3$ ). Uniform load. Equal span widths. Span-by-span load is not taken into account. An approximate calculation is made using  $k_{\text{mod}} = 0.8$ ;  $\gamma_m = 1.3$  and  $\gamma_F = 1.4$ .  $w_{\text{max}} = l/300$  under full load. The compression zone of the beams is continuously supported. Horizontal laminations (flatwise strain). **The tables are used for preliminary dimensioning. An accurate structural analysis must always be carried out prior to construction.**

**Single-span – beam width = 120 mm**  
**Max. span l [m]**

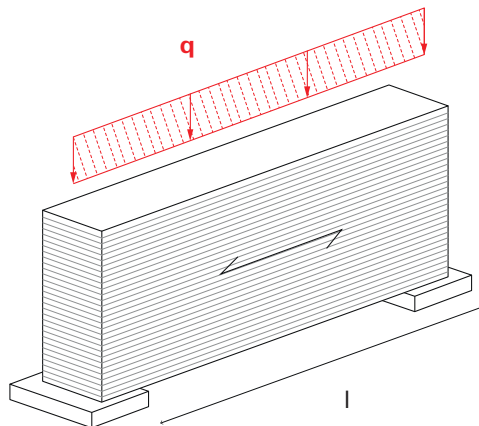
Beam height	Load q [kN/m]																
	1	2	3	4	5	6	7	8	9	10	12	14	16	18	20	25	30
120	4.20	3.33	2.91	2.64	2.45	2.31	2.19	2.10	2.02	1.95	1.83	1.74	1.67	1.60	1.55	1.44	1.35
160	5.59	4.44	3.88	3.52	3.27	3.08	2.92	2.80	2.69	2.60	2.44	2.32	2.22	2.13	2.06	1.91	1.80
200	6.99	5.55	4.85	4.41	4.09	3.85	3.66	3.50	3.36	3.25	3.05	2.90	2.78	2.67	2.58	2.39	2.25
240	8.39	6.66	5.82	5.29	4.91	4.62	4.39	4.20	4.03	3.90	3.67	3.48	3.33	3.20	3.09	2.87	2.70
280	9.79	7.77	6.79	6.17	5.73	5.39	5.12	4.90	4.71	4.54	4.28	4.06	3.89	3.74	3.61	3.35	3.15
320	11.19	8.88	7.76	7.05	6.54	6.16	5.85	5.59	5.38	5.19	4.89	4.64	4.44	4.27	4.12	3.83	3.51
360	12.59	9.99	8.73	7.93	7.36	6.93	6.58	6.29	6.05	5.84	5.50	5.22	5.00	4.80	4.64	4.31	3.84
400	13.99	11.10	9.70	8.81	8.18	7.70	7.31	6.99	6.72	6.49	6.11	5.80	5.55	5.34	5.15	4.78	4.15
440	15.39	12.21	10.67	9.69	9.00	8.47	8.04	7.69	7.40	7.14	6.72	6.38	6.11	5.87	5.67	5.26	4.46
480	16.78	13.32	11.64	10.57	9.82	9.24	8.77	8.39	8.07	7.79	7.33	6.96	6.66	6.40	6.18	5.71	4.76
520	18.18	14.43	12.61	11.45	10.63	10.01	9.51	9.09	8.74	8.44	7.94	7.54	7.22	6.94	6.70	6.06	5.05
560	19.58	15.54	13.58	12.34	11.45	10.78	10.24	9.79	9.41	9.09	8.55	8.12	7.77	7.47	7.21	6.41	5.34
600	20.98	16.65	14.55	13.22	12.27	11.55	10.97	10.49	10.09	9.74	9.16	8.70	8.33	8.01	7.73	6.75	5.63



No wood creeping is taken into account. No vibration-damping requirements are taken into account. No fire protection requirements are taken into account. The self-weight of the board must be taken into account ( $8 \text{ kN/m}^3$ ). Uniform load. Equal span widths. Span-by-span load is not taken into account. An approximate calculation is made using  $k_{\text{mod}} = 0.8$ ;  $\gamma_m = 1.3$  and  $\gamma_F = 1.4$ .  $w_{\text{max}} = l/300$  under full load. The compression zone of the beams is continuously supported. Horizontal laminations (flatwise strain). **The tables are used for preliminary dimensioning. An accurate structural analysis must always be carried out prior to construction.**

**Single-span – beam width = 160 mm**  
**Max. span l [m]**

Beam height	Load q [kN/m]																
	1	2	3	4	5	6	7	8	9	10	12	14	16	18	20	25	30
120	4.62	3.67	3.20	2.91	2.70	2.54	2.41	2.31	2.22	2.14	2.02	1.92	1.83	1.76	1.70	1.58	1.49
160	6.16	4.89	4.27	3.88	3.60	3.39	3.22	3.08	2.96	2.86	2.69	2.55	2.44	2.35	2.27	2.11	1.98
200	7.70	6.11	5.34	4.85	4.50	4.24	4.02	3.85	3.70	3.57	3.36	3.19	3.05	2.94	2.84	2.63	2.48
240	9.24	7.33	6.40	5.82	5.40	5.08	4.83	4.62	4.44	4.29	4.03	3.83	3.67	3.52	3.40	3.16	2.97
280	10.78	8.55	7.47	6.79	6.30	5.93	5.63	5.39	5.18	5.00	4.71	4.47	4.28	4.11	3.97	3.69	3.47
320	12.32	9.77	8.54	7.76	7.20	6.78	6.44	6.16	5.92	5.72	5.38	5.11	4.89	4.70	4.54	4.21	3.96
360	13.85	11.00	9.61	8.73	8.10	7.62	7.24	6.93	6.66	6.43	6.05	5.75	5.50	5.29	5.10	4.74	4.46
400	15.39	12.22	10.67	9.70	9.00	8.47	8.05	7.70	7.40	7.15	6.72	6.39	6.11	5.87	5.67	5.26	4.95
440	16.93	13.44	11.74	10.67	9.90	9.32	8.85	8.47	8.14	7.86	7.40	7.03	6.72	6.46	6.24	5.79	5.45
480	18.47	14.66	12.81	11.64	10.80	10.17	9.66	9.24	8.88	8.57	8.07	7.66	7.33	7.05	6.81	6.32	5.95
520	20.01	15.88	13.88	12.61	11.70	11.01	10.46	10.01	9.62	9.29	8.74	8.30	7.94	7.64	7.37	6.84	6.44
560	21.55	17.11	14.94	13.58	12.60	11.86	11.27	10.78	10.36	10.00	9.41	8.94	8.55	8.22	7.94	7.37	6.94
600	23.09	18.33	16.01	14.55	13.50	12.71	12.07	11.55	11.10	10.72	10.09	9.58	9.16	8.81	8.51	7.90	7.43



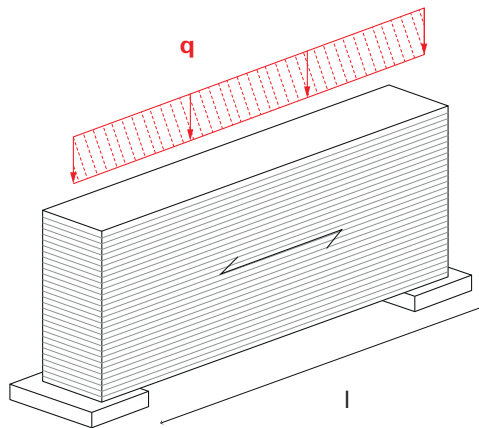
- Deflection decisive ( $l/300$ )
- Bending moment decisive
- Shear force decisive

↔ Grain direction

No wood creeping is taken into account. No vibration-damping requirements are taken into account. No fire protection requirements are taken into account. The self-weight of the board must be taken into account ( $8 \text{ kN/m}^3$ ). Uniform load. Equal span widths. Span-by-span load is not taken into account. An approximate calculation is made using  $k_{\text{mod}} = 0.8$ ;  $\gamma_m = 1.3$  and  $\gamma_F = 1.4$ .  $w_{\text{max}} = l/300$  under full load. The compression zone of the beams is continuously supported. Horizontal laminations (flatwise strain). **The tables are used for preliminary dimensioning. An accurate structural analysis must always be carried out prior to construction.**

**Single-span – beam width = 200 mm**  
**Max. span l [m]**

Beam height	Load q [kN/m]																
	1	2	3	4	5	6	7	8	9	10	12	14	16	18	20	25	30
120	4.97	3.95	3.45	3.13	2.91	2.74	2.60	2.49	2.39	2.31	2.17	2.06	1.97	1.90	1.83	1.70	1.60
160	6.63	5.26	4.60	4.18	3.88	3.65	3.47	3.32	3.19	3.08	2.90	2.75	2.63	2.53	2.44	2.27	2.13
200	8.29	6.58	5.75	5.22	4.85	4.56	4.33	4.15	3.99	3.85	3.62	3.44	3.29	3.16	3.05	2.84	2.67
240	9.95	7.90	6.90	6.27	5.82	5.48	5.20	4.97	4.78	4.62	4.35	4.13	3.95	3.80	3.67	3.40	3.20
280	11.61	9.21	8.05	7.31	6.79	6.39	6.07	5.80	5.58	5.39	5.07	4.82	4.61	4.43	4.28	3.97	3.74
320	13.27	10.53	9.20	8.36	7.76	7.30	6.94	6.63	6.38	6.16	5.79	5.50	5.26	5.06	4.89	4.54	4.27
360	14.92	11.85	10.35	9.40	8.73	8.21	7.80	7.46	7.18	6.93	6.52	6.19	5.92	5.69	5.50	5.10	4.80
400	16.58	13.16	11.50	10.45	9.70	9.13	8.67	8.29	7.97	7.70	7.24	6.88	6.58	6.33	6.11	5.67	5.34
440	18.24	14.48	12.65	11.49	10.67	10.04	9.54	9.12	8.77	8.47	7.97	7.57	7.24	6.96	6.72	6.24	5.87
480	19.90	15.79	13.80	12.54	11.64	10.95	10.40	9.95	9.57	9.24	8.69	8.26	7.90	7.59	7.33	6.81	6.40
520	21.56	17.11	14.95	13.58	12.61	11.86	11.27	10.78	10.36	10.01	9.42	8.94	8.56	8.23	7.94	7.37	6.94
560	23.22	18.43	16.10	14.63	13.58	12.78	12.14	11.61	11.16	10.78	10.14	9.63	9.21	8.86	8.55	7.94	7.47
600	24.87	19.74	17.25	15.67	14.55	13.69	13.00	12.44	11.96	11.55	10.86	10.32	9.87	9.49	9.16	8.51	8.01



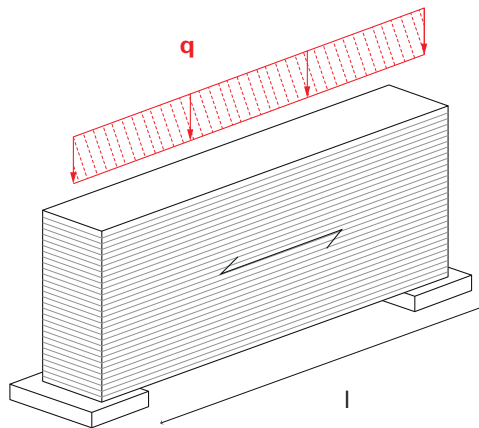
- Deflection decisive ( $l/300$ )
- Bending moment decisive
- Shear force decisive

↔ Grain direction

No wood creeping is taken into account. No vibration-damping requirements are taken into account. No fire protection requirements are taken into account. The self-weight of the board must be taken into account ( $8 \text{ kN/m}^3$ ). Uniform load. Equal span widths. Span-by-span load is not taken into account. An approximate calculation is made using  $k_{\text{mod}} = 0.8$ ;  $\gamma_m = 1.3$  and  $\gamma_F = 1.4$ .  $w_{\text{max}} = l/300$  under full load. The compression zone of the beams is continuously supported. Horizontal laminations (flatwise strain). **The tables are used for preliminary dimensioning. An accurate structural analysis must always be carried out prior to construction.**

**Single-span – beam width = 240 mm**  
**Max. span l [m]**

Beam height	Load q [kN/m]																
	1	2	3	4	5	6	7	8	9	10	12	14	16	18	20	25	30
120	5.29	4.20	3.67	3.33	3.09	2.91	2.76	2.64	2.54	2.45	2.31	2.19	2.10	2.02	1.95	1.81	1.70
160	7.05	5.59	4.89	4.44	4.12	3.88	3.68	3.52	3.39	3.27	3.08	2.92	2.80	2.69	2.60	2.41	2.27
200	8.81	6.99	6.11	5.55	5.15	4.85	4.61	4.41	4.24	4.09	3.85	3.66	3.50	3.36	3.25	3.01	2.84
240	10.57	8.39	7.33	6.66	6.18	5.82	5.53	5.29	5.08	4.91	4.62	4.39	4.20	4.03	3.90	3.62	3.40
280	12.34	9.79	8.55	7.77	7.21	6.79	6.45	6.17	5.93	5.73	5.39	5.12	4.90	4.71	4.54	4.22	3.97
320	14.10	11.19	9.77	8.88	8.24	7.76	7.37	7.05	6.78	6.54	6.16	5.85	5.59	5.38	5.19	4.82	4.54
360	15.86	12.59	11.00	9.99	9.27	8.73	8.29	7.93	7.62	7.36	6.93	6.58	6.29	6.05	5.84	5.42	5.10
400	17.62	13.99	12.22	11.10	10.31	9.70	9.21	8.81	8.47	8.18	7.70	7.31	6.99	6.72	6.49	6.03	5.67
440	19.38	15.39	13.44	12.21	11.34	10.67	10.13	9.69	9.32	9.00	8.47	8.04	7.69	7.40	7.14	6.63	6.24
480	21.15	16.78	14.66	13.32	12.37	11.64	11.05	10.57	10.17	9.82	9.24	8.77	8.39	8.07	7.79	7.23	6.81
520	22.91	18.18	15.88	14.43	13.40	12.61	11.98	11.45	11.01	10.63	10.01	9.51	9.09	8.74	8.44	7.83	7.37
560	24.67	19.58	17.11	15.54	14.43	13.58	12.90	12.34	11.86	11.45	10.78	10.24	9.79	9.41	9.09	8.44	7.94
600	26.43	20.98	18.33	16.65	15.46	14.55	13.82	13.22	12.71	12.27	11.55	10.97	10.49	10.09	9.74	9.04	8.51



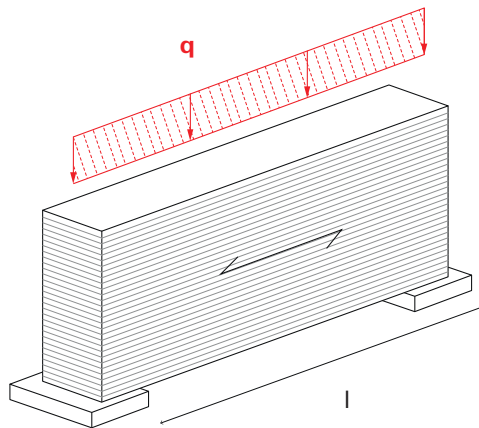
- Deflection decisive ( $l/300$ )
- Bending moment decisive
- Shear force decisive

↔ Grain direction

No wood creeping is taken into account. No vibration-damping requirements are taken into account. No fire protection requirements are taken into account. The self-weight of the board must be taken into account (8 kN/m<sup>3</sup>). Uniform load. Equal span widths. Span-by-span load is not taken into account. An approximate calculation is made using  $k_{mod} = 0.8$ ;  $\gamma_m = 1.3$  and  $\gamma_F = 1.4$ .  $w_{max} = l/300$  under full load. The compression zone of the beams is continuously supported. Horizontal laminations (flatwise strain). **The tables are used for preliminary dimensioning. An accurate structural analysis must always be carried out prior to construction.**

**Single-span – beam width = 280 mm**  
**Max. span l [m]**

Beam height	Load q [kN/m]																
	1	2	3	4	5	6	7	8	9	10	12	14	16	18	20	25	30
120	5.57	4.42	3.86	3.51	3.25	3.06	2.91	2.78	2.68	2.58	2.43	2.31	2.21	2.12	2.05	1.90	1.79
160	7.42	5.89	5.15	4.67	4.34	4.08	3.88	3.71	3.57	3.44	3.24	3.08	2.94	2.83	2.73	2.54	2.39
200	9.28	7.36	6.43	5.84	5.42	5.10	4.85	4.64	4.46	4.31	4.05	3.85	3.68	3.54	3.42	3.17	2.99
240	11.13	8.83	7.72	7.01	6.51	6.13	5.82	5.57	5.35	5.17	4.86	4.62	4.42	4.25	4.10	3.81	3.58
280	12.99	10.31	9.00	8.18	7.59	7.15	6.79	6.49	6.24	6.03	5.67	5.39	5.15	4.96	4.78	4.44	4.18
320	14.84	11.78	10.29	9.35	8.68	8.17	7.76	7.42	7.13	6.89	6.48	6.16	5.89	5.66	5.47	5.08	4.78
360	16.70	13.25	11.58	10.52	9.76	9.19	8.73	8.35	8.03	7.75	7.29	6.93	6.63	6.37	6.15	5.71	5.37
400	18.55	14.72	12.86	11.69	10.85	10.21	9.70	9.28	8.92	8.61	8.10	7.70	7.36	7.08	6.83	6.34	5.97
440	20.41	16.20	14.15	12.86	11.93	11.23	10.67	10.20	9.81	9.47	8.91	8.47	8.10	7.79	7.52	6.98	6.57
480	22.26	17.67	15.44	14.02	13.02	12.25	11.64	11.13	10.70	10.33	9.72	9.24	8.83	8.49	8.20	7.61	7.16
520	24.12	19.14	16.72	15.19	14.10	13.27	12.61	12.06	11.59	11.19	10.53	10.01	9.57	9.20	8.88	8.25	7.76
560	25.97	20.61	18.01	16.36	15.19	14.29	13.58	12.99	12.49	12.05	11.34	10.78	10.31	9.91	9.57	8.88	8.36
600	27.83	22.09	19.29	17.53	16.27	15.31	14.55	13.91	13.38	12.92	12.15	11.55	11.04	10.62	10.25	9.52	8.96



- Deflection decisive ( $l/300$ )
- Bending moment decisive
- Shear force decisive

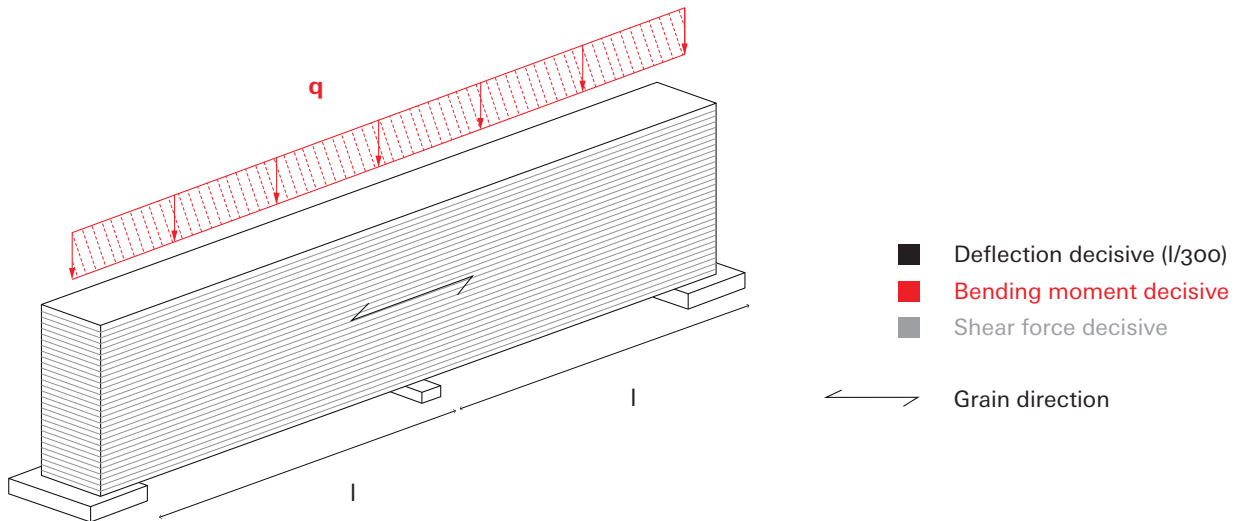
↔ Grain direction

No wood creeping is taken into account. No vibration-damping requirements are taken into account. No fire protection requirements are taken into account. The self-weight of the board must be taken into account ( $8 \text{ kN/m}^3$ ). Uniform load. Equal span widths. Span-by-span load is not taken into account. An approximate calculation is made using  $k_{\text{mod}} = 0.8$ ;  $\gamma_m = 1.3$  and  $\gamma_F = 1.4$ .  $w_{\text{max}} = l/300$  under full load. The compression zone of the beams is continuously supported. Horizontal laminations (flatwise strain). **The tables are used for preliminary dimensioning. An accurate structural analysis must always be carried out prior to construction.**



**Double-span – beam width = 80 mm**  
**Max. span l [m]**

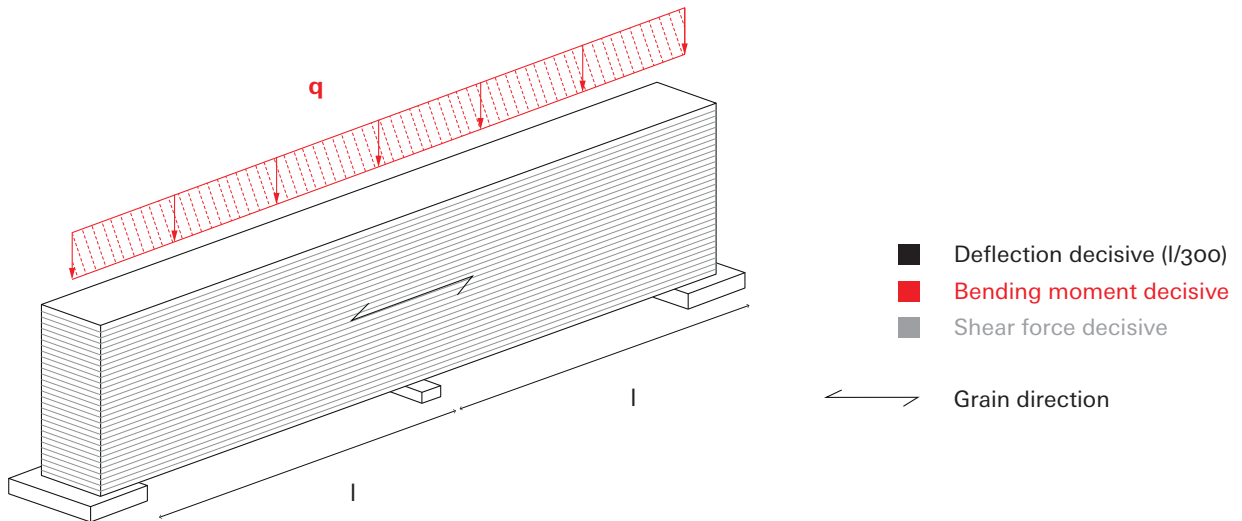
Beam height	Load q [kN/m]																
	1	2	3	4	5	6	7	8	9	10	12	14	16	18	20	25	30
120	4.91	3.90	3.40	3.09	2.87	2.70	2.57	2.46	2.36	2.28	2.14	1.92	1.68	1.50	1.35	1.08	0.90
160	6.55	5.20	4.54	4.12	3.83	3.60	3.42	3.27	3.15	3.04	2.78	2.39	2.09	1.86	1.67	1.34	1.11
200	8.18	6.50	5.67	5.16	4.79	4.50	4.28	4.09	3.93	3.80	3.29	2.82	2.47	2.19	1.97	1.58	1.32
240	9.82	7.79	6.81	6.19	5.74	5.40	5.13	4.91	4.72	4.53	3.77	3.23	2.83	2.52	2.26	1.81	1.51
280	11.46	9.09	7.94	7.22	6.70	6.31	5.99	5.73	5.51	5.08	4.24	3.63	3.18	2.82	2.54	2.03	1.69
320	13.09	10.39	9.08	8.25	7.66	7.21	6.84	6.55	6.24	5.62	4.68	4.01	3.51	3.12	2.81	2.25	1.87
360	14.73	11.69	10.21	9.28	8.61	8.11	7.70	7.37	6.82	6.14	5.11	4.38	3.84	3.41	3.07	2.45	2.05
400	16.37	12.99	11.35	10.31	9.57	9.01	8.56	8.18	7.38	6.64	5.53	4.74	4.15	3.69	3.32	2.66	2.21
440	18.00	14.29	12.48	11.34	10.53	9.91	9.41	8.92	7.93	7.13	5.94	5.10	4.46	3.96	3.57	2.85	2.38
480	19.64	15.59	13.62	12.37	11.49	10.81	10.27	9.52	8.46	7.61	6.35	5.44	4.76	4.23	3.81	3.05	2.54
520	21.28	16.89	14.75	13.40	12.44	11.71	11.12	10.11	8.98	8.09	6.74	5.78	5.05	4.49	4.04	3.23	2.70
560	22.91	18.19	15.89	14.43	13.40	12.61	11.98	10.69	9.50	8.55	7.12	6.11	5.34	4.75	4.27	3.42	2.85
600	24.55	19.49	17.02	15.47	14.36	13.51	12.83	11.25	10.00	9.00	7.50	6.43	5.63	5.00	4.50	3.60	3.00



No wood creeping is taken into account. No vibration-damping requirements are taken into account. No fire protection requirements are taken into account. The self-weight of the board must be taken into account ( $8 \text{ kN/m}^3$ ). Uniform load. Equal span widths. Span-by-span load is not taken into account. An approximate calculation is made using  $k_{\text{mod}} = 0.8$ ;  $\gamma_m = 1.3$  and  $\gamma_F = 1.4$ .  $w_{\text{max}} = l/300$  under full load. The compression zone of the beams is continuously supported. Horizontal laminations (flatwise strain). **The tables are used for preliminary dimensioning. An accurate structural analysis must always be carried out prior to construction.**

**Double-span – beam width = 120mm**  
**Max. span l [m]**

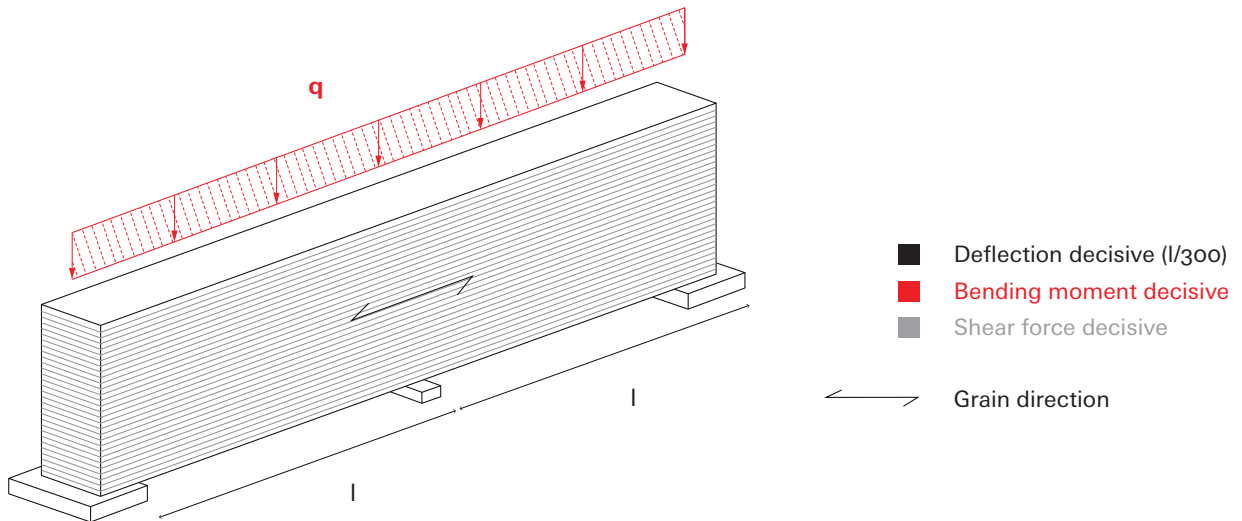
Beam height	Load q [kN/m]																
	1	2	3	4	5	6	7	8	9	10	12	14	16	18	20	25	30
120	5.62	4.46	3.90	3.54	3.29	3.09	2.94	2.81	2.70	2.61	2.46	2.33	2.23	2.14	2.02	1.62	1.35
160	7.49	5.95	5.20	4.72	4.38	4.12	3.92	3.75	3.60	3.48	3.27	3.11	2.97	2.78	2.51	2.00	1.67
200	9.37	7.44	6.50	5.90	5.48	5.16	4.90	4.68	4.50	4.35	4.09	3.89	3.70	3.29	2.96	2.37	1.97
240	11.24	8.92	7.79	7.08	6.57	6.19	5.88	5.62	5.40	5.22	4.91	4.66	4.24	3.77	3.40	2.72	2.26
280	13.12	10.41	9.09	8.26	7.67	7.22	6.86	6.56	6.31	6.09	5.73	5.44	4.77	4.24	3.81	3.05	2.54
320	14.99	11.90	10.39	9.44	8.77	8.25	7.84	7.49	7.21	6.96	6.55	6.02	5.27	4.68	4.21	3.37	2.81
360	16.86	13.38	11.69	10.62	9.86	9.28	8.81	8.43	8.11	7.83	7.37	6.58	5.75	5.11	4.60	3.68	3.07
400	18.74	14.87	12.99	11.80	10.96	10.31	9.79	9.37	9.01	8.70	8.18	7.12	6.23	5.53	4.98	3.99	3.32
440	20.61	16.36	14.29	12.98	12.05	11.34	10.77	10.30	9.91	9.57	8.92	7.64	6.69	5.94	5.35	4.28	3.57
480	22.48	17.84	15.59	14.16	13.15	12.37	11.75	11.24	10.81	10.44	9.52	8.16	7.14	6.35	5.71	4.57	3.81
520	24.36	19.33	16.89	15.34	14.24	13.40	12.73	12.18	11.71	11.31	10.11	8.66	7.58	6.74	6.06	4.85	4.04
560	26.23	20.82	18.19	16.52	15.34	14.43	13.71	13.12	12.61	12.17	10.69	9.16	8.01	7.12	6.41	5.13	4.27
600	28.10	22.31	19.49	17.70	16.44	15.47	14.69	14.05	13.51	13.04	11.25	9.65	8.44	7.50	6.75	5.40	4.50



No wood creeping is taken into account. No vibration-damping requirements are taken into account. No fire protection requirements are taken into account. The self-weight of the board must be taken into account ( $8 \text{ kN/m}^3$ ). Uniform load. Equal span widths. Span-by-span load is not taken into account. An approximate calculation is made using  $k_{mod} = 0.8$ ;  $\gamma_m = 1.3$  and  $\gamma_F = 1.4$ .  $w_{max} = l/300$  under full load. The compression zone of the beams is continuously supported. Horizontal laminations (flatwise strain). **The tables are used for preliminary dimensioning. An accurate structural analysis must always be carried out prior to construction.**

**Double-span – beam width = 160 mm**  
**Max. span l [m]**

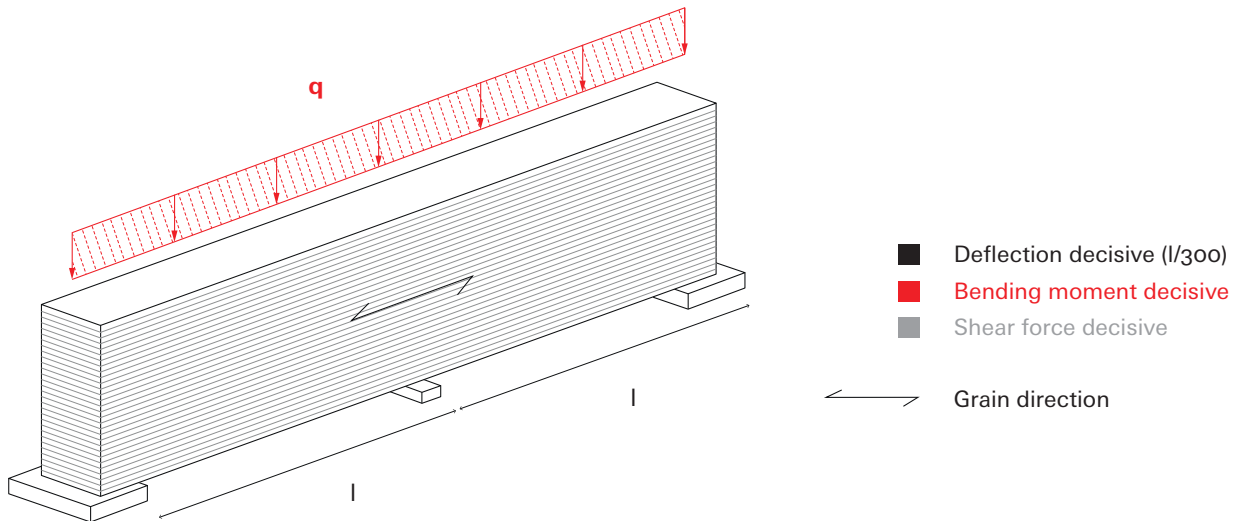
Beam height	Load q [kN/m]																
	1	2	3	4	5	6	7	8	9	10	12	14	16	18	20	25	30
120	6.19	4.91	4.29	3.90	3.62	3.40	3.23	3.09	2.97	2.87	2.70	2.57	2.46	2.36	2.28	2.12	1.79
160	8.25	6.55	5.72	5.20	4.82	4.54	4.31	4.12	3.97	3.83	3.60	3.42	3.27	3.15	3.04	2.67	2.23
200	10.31	8.18	7.15	6.50	6.03	5.67	5.39	5.16	4.96	4.79	4.50	4.28	4.09	3.93	3.80	3.16	2.63
240	12.37	9.82	8.58	7.79	7.24	6.81	6.47	6.19	5.95	5.74	5.40	5.13	4.91	4.72	4.53	3.62	3.02
280	14.43	11.46	10.01	9.09	8.44	7.94	7.55	7.22	6.94	6.70	6.31	5.99	5.73	5.51	5.08	4.07	3.39
320	16.50	13.09	11.44	10.39	9.65	9.08	8.62	8.25	7.93	7.66	7.21	6.84	6.55	6.24	5.62	4.49	3.75
360	18.56	14.73	12.87	11.69	10.85	10.21	9.70	9.28	8.92	8.61	8.11	7.70	7.37	6.82	6.14	4.91	4.09
400	20.62	16.37	14.30	12.99	12.06	11.35	10.78	10.31	9.91	9.57	9.01	8.56	8.18	7.38	6.64	5.31	4.43
440	22.68	18.00	15.73	14.29	13.27	12.48	11.86	11.34	10.91	10.53	9.91	9.41	8.92	7.93	7.13	5.71	4.76
480	24.75	19.64	17.16	15.59	14.47	13.62	12.94	12.37	11.90	11.49	10.81	10.27	9.52	8.46	7.61	6.09	5.08
520	26.81	21.28	18.59	16.89	15.68	14.75	14.01	13.40	12.89	12.44	11.71	11.12	10.11	8.98	8.09	6.47	5.39
560	28.87	22.91	20.02	18.19	16.88	15.89	15.09	14.43	13.88	13.40	12.61	11.98	10.69	9.50	8.55	6.84	5.70
600	30.93	24.55	21.45	19.49	18.09	17.02	16.17	15.47	14.87	14.36	13.51	12.83	11.25	10.00	9.00	7.20	6.00



No wood creeping is taken into account. No vibration-damping requirements are taken into account. No fire protection requirements are taken into account. The self-weight of the board must be taken into account ( $8 \text{ kN/m}^3$ ). Uniform load. Equal span widths. Span-by-span load is not taken into account. An approximate calculation is made using  $k_{\text{mod}} = 0.8$ ;  $\gamma_m = 1.3$  and  $\gamma_F = 1.4$ .  $w_{\text{max}} = l/300$  under full load. The compression zone of the beams is continuously supported. Horizontal laminations (flatwise strain). **The tables are used for preliminary dimensioning. An accurate structural analysis must always be carried out prior to construction.**

**Double-span – beam width = 200 mm**  
**Max. span l [m]**

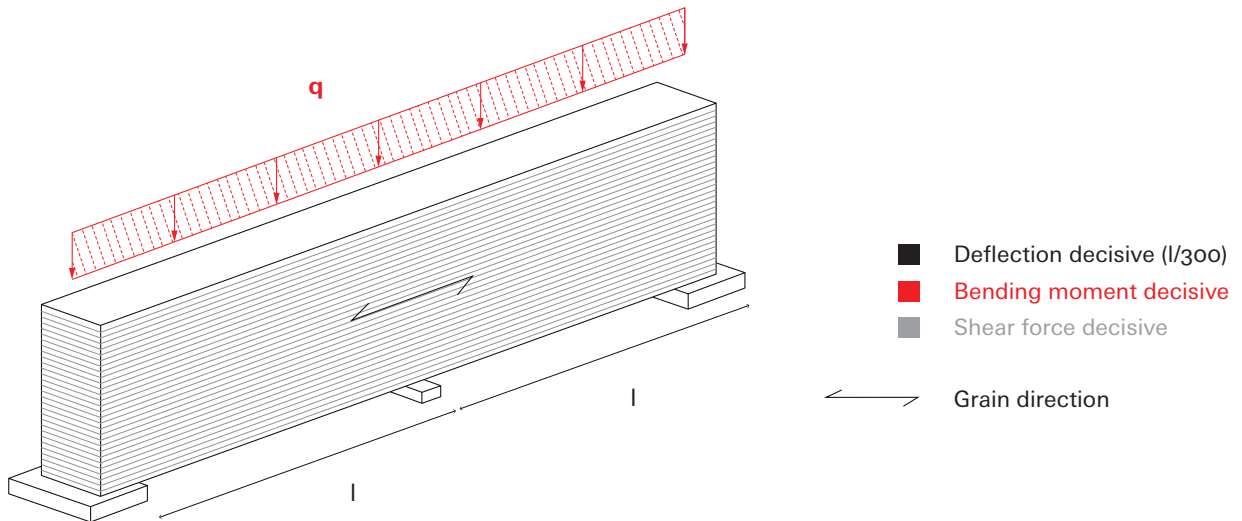
Beam height	Load q [kN/m]																
	1	2	3	4	5	6	7	8	9	10	12	14	16	18	20	25	30
120	6.66	5.29	4.62	4.20	3.90	3.67	3.48	3.33	3.20	3.09	2.91	2.77	2.64	2.54	2.46	2.28	2.14
160	8.89	7.05	6.16	5.60	5.20	4.89	4.64	4.44	4.27	4.12	3.88	3.69	3.53	3.39	3.27	3.04	2.78
200	11.11	8.82	7.70	7.00	6.50	6.11	5.81	5.55	5.34	5.16	4.85	4.61	4.41	4.24	4.09	3.80	3.29
240	13.33	10.58	9.24	8.40	7.79	7.33	6.97	6.66	6.41	6.19	5.82	5.53	5.29	5.09	4.91	4.53	3.77
280	15.55	12.34	10.78	9.80	9.09	8.56	8.13	7.77	7.48	7.22	6.79	6.45	6.17	5.93	5.73	5.08	4.24
320	17.77	14.10	12.32	11.20	10.39	9.78	9.29	8.89	8.54	8.25	7.76	7.37	7.05	6.78	6.55	5.62	4.68
360	19.99	15.87	13.86	12.59	11.69	11.00	10.45	10.00	9.61	9.28	8.73	8.30	7.93	7.63	7.37	6.14	5.11
400	22.21	17.63	15.40	13.99	12.99	12.22	11.61	11.11	10.68	10.31	9.70	9.22	8.82	8.48	8.18	6.64	5.53
440	24.44	19.39	16.94	15.39	14.29	13.45	12.77	12.22	11.75	11.34	10.67	10.14	9.70	9.32	8.92	7.13	5.94
480	26.66	21.16	18.48	16.79	15.59	14.67	13.93	13.33	12.82	12.37	11.64	11.06	10.58	10.17	9.52	7.61	6.35
520	28.88	22.92	20.02	18.19	16.89	15.89	15.10	14.44	13.88	13.40	12.61	11.98	11.46	11.02	10.11	8.09	6.74
560	31.10	24.68	21.56	19.59	18.19	17.11	16.26	15.55	14.95	14.43	13.58	12.90	12.34	11.87	10.69	8.55	7.12
600	33.32	26.45	23.10	20.99	19.49	18.34	17.42	16.66	16.02	15.47	14.55	13.83	13.22	12.50	11.25	9.00	7.50



No wood creeping is taken into account. No vibration-damping requirements are taken into account. No fire protection requirements are taken into account. The self-weight of the board must be taken into account ( $8 \text{ kN/m}^3$ ). Uniform load. Equal span widths. Span-by-span load is not taken into account. An approximate calculation is made using  $k_{\text{mod}} = 0.8$ ;  $\gamma_m = 1.3$  and  $\gamma_F = 1.4$ .  $w_{\text{max}} = l/300$  under full load. The compression zone of the beams is continuously supported. Horizontal laminations (flatwise strain). **The tables are used for preliminary dimensioning. An accurate structural analysis must always be carried out prior to construction.**

**Double-span – beam width = 240 mm**  
**Max. span l [m]**

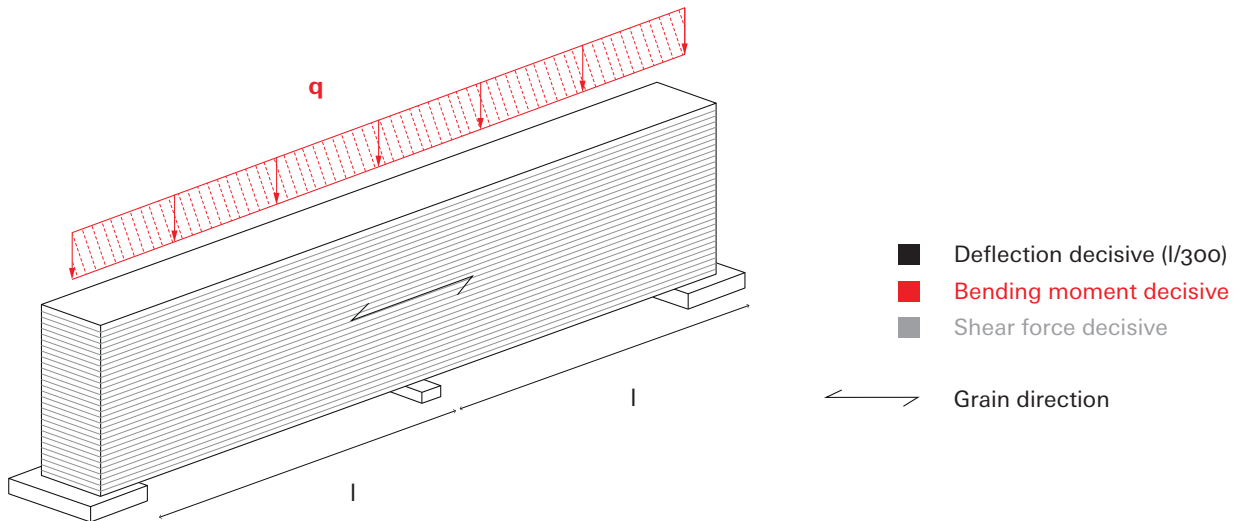
Beam height	Load q [kN/m]																
	1	2	3	4	5	6	7	8	9	10	12	14	16	18	20	25	30
120	7.08	5.62	4.91	4.46	4.14	3.90	3.70	3.54	3.40	3.29	3.09	2.94	2.81	2.70	2.61	2.42	2.28
160	9.44	7.49	6.55	5.95	5.52	5.20	4.94	4.72	4.54	4.38	4.12	3.92	3.75	3.60	3.48	3.23	3.04
200	11.80	9.37	8.18	7.44	6.90	6.50	6.17	5.90	5.67	5.48	5.16	4.90	4.68	4.50	4.35	4.04	3.80
240	14.16	11.24	9.82	8.92	8.28	7.79	7.40	7.08	6.81	6.57	6.19	5.88	5.62	5.40	5.22	4.84	4.53
280	16.52	13.12	11.46	10.41	9.66	9.09	8.64	8.26	7.94	7.67	7.22	6.86	6.56	6.31	6.09	5.65	5.08
320	18.88	14.99	13.09	11.90	11.04	10.39	9.87	9.44	9.08	8.77	8.25	7.84	7.49	7.21	6.96	6.46	5.62
360	21.25	16.86	14.73	13.38	12.42	11.69	11.11	10.62	10.21	9.86	9.28	8.81	8.43	8.11	7.83	7.27	6.14
400	23.61	18.74	16.37	14.87	13.80	12.99	12.34	11.80	11.35	10.96	10.31	9.79	9.37	9.01	8.70	7.97	6.64
440	25.97	20.61	18.00	16.36	15.19	14.29	13.57	12.98	12.48	12.05	11.34	10.77	10.30	9.91	9.57	8.56	7.13
480	28.33	22.48	19.64	17.84	16.57	15.59	14.81	14.16	13.62	13.15	12.37	11.75	11.24	10.81	10.44	9.14	7.61
520	30.69	24.36	21.28	19.33	17.95	16.89	16.04	15.34	14.75	14.24	13.40	12.73	12.18	11.71	11.31	9.70	8.09
560	33.05	26.23	22.91	20.82	19.33	18.19	17.28	16.52	15.89	15.34	14.43	13.71	13.12	12.61	12.17	10.26	8.55
600	35.41	28.10	24.55	22.31	20.71	19.49	18.51	17.70	17.02	16.44	15.47	14.69	14.05	13.51	13.04	10.80	9.00



No wood creeping is taken into account. No vibration-damping requirements are taken into account. No fire protection requirements are taken into account. The self-weight of the board must be taken into account ( $8 \text{ kN/m}^3$ ). Uniform load. Equal span widths. Span-by-span load is not taken into account. An approximate calculation is made using  $k_{\text{mod}} = 0.8$ ;  $\gamma_m = 1.3$  and  $\gamma_F = 1.4$ .  $w_{\text{max}} = l/300$  under full load. The compression zone of the beams is continuously supported. Horizontal laminations (flatwise strain). **The tables are used for preliminary dimensioning. An accurate structural analysis must always be carried out prior to construction.**

**Double-span – beam width = 280 mm**  
**Max. span l [m]**

Beam height	Load q [kN/m]																
	1	2	3	4	5	6	7	8	9	10	12	14	16	18	20	25	30
120	7.46	5.92	5.17	4.70	4.36	4.10	3.90	3.73	3.58	3.46	3.26	3.09	2.96	2.84	2.75	2.55	2.40
160	9.94	7.89	6.89	6.26	5.81	5.47	5.20	4.97	4.78	4.61	4.34	4.12	3.94	3.79	3.66	3.40	3.20
200	12.43	9.86	8.62	7.83	7.27	6.84	6.50	6.21	5.97	5.77	5.43	5.16	4.93	4.74	4.58	4.25	4.00
240	14.91	11.83	10.34	9.39	8.72	8.21	7.79	7.46	7.17	6.92	6.51	6.19	5.92	5.69	5.49	5.10	4.80
280	17.40	13.81	12.06	10.96	10.17	9.57	9.09	8.70	8.36	8.07	7.60	7.22	6.90	6.64	6.41	5.95	5.60
320	19.88	15.78	13.78	12.52	11.63	10.94	10.39	9.94	9.56	9.23	8.68	8.25	7.89	7.59	7.32	6.80	6.40
360	22.37	17.75	15.51	14.09	13.08	12.31	11.69	11.18	10.75	10.38	9.77	9.28	8.88	8.53	8.24	7.65	7.16
400	24.85	19.72	17.23	15.65	14.53	13.68	12.99	12.43	11.95	11.53	10.85	10.31	9.86	9.48	9.15	8.50	7.75
440	27.34	21.70	18.95	17.22	15.99	15.04	14.29	13.67	13.14	12.69	11.94	11.34	10.85	10.43	10.07	9.35	8.32
480	29.82	23.67	20.68	18.79	17.44	16.41	15.59	14.91	14.34	13.84	13.03	12.37	11.83	11.38	10.99	10.20	8.88
520	32.31	25.64	22.40	20.35	18.89	17.78	16.89	16.15	15.53	14.99	14.11	13.40	12.82	12.33	11.90	11.05	9.43
560	34.79	27.61	24.12	21.92	20.35	19.15	18.19	17.40	16.73	16.15	15.20	14.43	13.81	13.28	12.82	11.90	9.97
600	37.28	29.59	25.85	23.48	21.80	20.51	19.49	18.64	17.92	17.30	16.28	15.47	14.79	14.22	13.73	12.60	10.50



No wood creeping is taken into account. No vibration-damping requirements are taken into account. No fire protection requirements are taken into account. The self-weight of the board must be taken into account ( $8 \text{ kN/m}^3$ ). Uniform load. Equal span widths. Span-by-span load is not taken into account. An approximate calculation is made using  $k_{\text{mod}} = 0.8$ ;  $\gamma_m = 1.3$  and  $\gamma_F = 1.4$ .  $w_{\text{max}} = l/300$  under full load. The compression zone of the beams is continuously supported. Horizontal laminations (flatwise strain). **The tables are used for preliminary dimensioning. An accurate structural analysis must always be carried out prior to construction.**