Dimensioning aid
best wood **GLULAM – CEILING**



Perm. loads* [kN/m²]	Live loads [kN/m²]	Span length of single span beams [m]						Span lengths of double span beams [m]					
		3.00	4.00	5.00	6.00	7.00	8.00	3.00	4.00	5.00	6.00	7.00	8.00
1.00	1.00	100	100	140	180	200	200	100	100	140	180	200	200
	1.50						220		100				
	2.00												
	3.00		120										
	5.00	100		160	200	220	260	100	120				220
2.50	1.00	100	120	160	180	220	240	100	120	160	160	160	180
	1.50						260						200
	2.00	100						100				180	
	3.00				200								
	5.00		140	180		240	280				180	200	220
4.00	1.00	100	140	180	200	240	280	100	140	140	160	180	200
	1.50												
	2.00												220
	3.00				220							200	
	5.00	120				260	-				180		240

* The dead weight of the best wood GLULAM board has already been taken into account.

These tables are only intended for pre-dimensioning and are no substitute for structural analysis.

Fire resistance: R60 R90

Example for a GLULAM ceiling in a detached house:

Design values:		**Result:**
Permanent load	g = 1.0 kN/m²	Demanded thickness of ceiling =
Live load	q = 2.0 kN/m²	140 mm
Span length	l = 5.0 m	Charring rate = R90

This pre-measuring is no substitute for structural verification.

The following parameters and certificates were taken into account in the calculations:

Certificate of load-bearing capacity according to DIN EN 1995-1-1:2010-12 with NA:2013-08

Certificate of structural fire design according to DIN EN 1995-1-2:2010-12 with NA:2010-12

Application class 1

Load duration class of the intermittent load: medium

$\Psi_2 = 0.3$; $k_{def} = 0.60$; GL24h

Ultimate limit state; certificate of bending stress; certificate of (rolling) shear stress

Serviceability limit state; initial deflection ≤ l/300; final deflection ≤ l/200; total deflection ≤ l/300

Verification of vibration: Width of the ceiling panel b = 1.2 * span length; additional rigidity $EI_{x,y}$ from 5 cm screed slab; modal damping ratio $\zeta = 0.03$; limitation of acceleration a ≤ 0.4 m/s²

best wood SCHNEIDER

Dimensioning aid
best wood **CLT – CEILING | CEILING XL**



Perm. loads* [kN/m²]	Live loads [kN/m²]	Span length of single span beams [m]						Span lengths of double span beams [m]					
		3.00	4.00	5.00	6.00	7.00	8.00	3.00	4.00	5.00	6.00	7.00	8.00
1.00	1.00	80	100	140	200	200	220	60	90	160	200	200	220
	1.50												
	2.00	80						80					
	3.00		110			220	240		100				
	5.00	100	130	160	220		260	80	110			220	220
2.50	1.00	90	130	160	200	220	260	80	130	160	170	170	200
	1.50												
	2.00												220
	3.00	100			220							200	
	5.00		140	180		240	280	90			180	220	240
4.00	1.00	100	140	180	220	240	280	90	140	150	160	200	220
	1.50						-						
	2.00												
	3.00	110		200		260					170	220	
	5.00		160							160	200		240

* The dead weight of the best wood CLT panel has already been taken into account

These tables are only intended for pre-dimensioning and are no substitute for structural analysis.

	R0	R30	R60	R90
Fire resistance:				

Example for a CLT ceiling in a detached house:

Design values:		**Result:**
Permanent load	g = 1.0 kN/m²	Demanded thickness of ceiling =
Live load	q = 2.0 kN/m²	140 mm
Span length	l = 5.0 m	Charring rate = R60

This pre-measuring is no substitute for structural verification.

The following parameters and certificates were taken into account in the calculations:

Certificate of load-bearing capacity according to DIN EN 1995-1-1:2010-12 with NA:2013-08

Certificate of structural fire design according to DIN EN 1995-1-2:2010-12 with NA:2010-12

Application class 1

Load duration class of the intermittent load: medium

$\Psi_2 = 0.3$; $k_{def} = 0.60$; C24

Ultimate limit state; certificate of bending stress; certificate of (rolling) shear stress

Serviceability limit state; initial deflection ≤ l/300; final deflection ≤ l/200; total deflection ≤ l/300

Verification of vibration: Width of the ceiling panel b = 1.2 * span length; additional rigidity $EI_{x,y}$ from 5 cm screed slab; modal damping ratio $\zeta = 0.03$; limitation of acceleration a ≤ 0.4 m/s²

best wood SCHNEIDER

Dimensioning aid
best wood **CLT BOX**

(lower CLT panel 60 mm)



Perm. loads* [kN/m²]	Live loads [kN/m²]	Span length of single span beams [m]						Span lengths of double span beams [m]					
		6.00	7.00	8.00	9.00	10.00	11.00	3.00	4.00	5.00	6.00	7.00	8.00
1.00	1.00	220/80	220/80	240/80	260/80	300/80	340/80	220/80	220/80	220/80	220/80	240/80	240/100
	1.50												
	2.00				280/80	320/80							
	3.00			260/80	300/80	340/80	380/80						
	5.00		260/80	300/80	340/80	380/80	420/100				220/100	240/100	260/100
2.50	1.00	220/80	240/80	280/80	320/80	360/80	400/80	220/80	220/80	220/80	220/80	220/80	220/80
	1.50					360/100	400/120						
	2.00		260/80	300/80	340/80	380/80	420/80						220/100
	3.00						420/100					220/100	240/100
	5.00	240/80	280/80	320/80	360/100	420/80	460/100			220/100	220/120	240/120	280/100
4.00	1.00	240/80	280/80	320/80	360/80	420/80	460/100	220/80	220/80	220/80	220/80	220/100	240/100
	1.50				360/120								
	2.00				380/80		460/120				220/100		
	3.00		280/100	340/80		420/120	480/100					220/120	260/100
	5.00	260/80	300/80		400/80	440/100	-			220/100	220/120	260/120	300/120

* The dead weight of the best wood CLT BOX has already been taken into account

These tables are only intended for pre-dimensioning and are no substitute for structural analysis.

Fire resistance: R60

Example for a CLT BOX in a multi-family house:

Design values:		**Result: 340/80**	
Permanent load	g = 2.50 kN/m²	Thickness of ceiling	= 340 mm
Live load	q = 3.00 kN/m²	Rib width	= 80 mm
Span length	l = 9.00 m	Charring rate	= R60

The following parameters and certificates were taken into account in the calculations:

Certificate of load-bearing capacity according to DIN EN 1995-1-1:2010-12 with NA:2013-08

Certificate of structural fire design according to DIN EN 1995-1-2:2010-12 with NA:2010-12

Upper CLT panel: 60 mm; lower CLT panel: 60 mm

Application class 1

Load duration class of the intermittent load: medium

$\Psi_2 = 0.3$; $k_{def} = 0.60$; C24

Ultimate limit state: Certificate of bending stress, certificate of (rolling) shear stress

Serviceability limit state: Initial deflection ≤l/300; final deflection ≤ l/200; total deflection ≤ l/300

Verification of vibration: Width of the ceiling panel b = 1.2* l; additional rigidity $EI_{x,y}$ from 5 cm screed slab; modal damping ratio ζ = 0.03; imitation of acceleration a ≤ 0.4 m/s²

best wood SCHNEIDER

Dimensioning aid
best wood **CLT BOX – CEILING FS**

(lower CLT panel 60 mm)



Perm. loads* [kN/m²]	Live loads [kN/m²]	Span length of single span beams [m]						Span lengths of double span beams [m]					
		6.00	7.00	8.00	9.00	10.00	11.00	3.00	4.00	5.00	6.00	7.00	8.00
1.00	1.00	240/80	300/80	360/80	280/80	320/80	340/80	220/80	220/80	220/80	240/80	300/80	360/80
	1.50						360/80						
	2.00												
	3.00				300/80	340/80	380/80						
	5.00	240/100			340/100	380/100	420/120			220/100	240/100	300/100	360/100
2.50	1.00	280/80	240/80	280/80	320/120	380/80	420/80	220/80	220/80	220/80	280/80	220/100	220/100
	1.50												
	2.00		260/80	300/80	340/80		420/100						220/120
	3.00					400/80	440/80			220/100		220/120	240/120
	5.00	280/100	280/100	320/100	360/100	420/100	460/100		220/100	220/120	280/100	260/120	300/120
4.00	1.00	240/100	280/100	320/100	360/120	420/80	460/100	220/80	220/80	240/100	220/100	220/120	240/120
	1.50				380/80		460/120						
	2.00			340/80		420/100	480/100						
	3.00		300/100	340/100	380/100	440/100	480/100		220/100		220/120	240/120	280/120
	5.00	260/100		340/120	400/100	440/120	-			240/120	260/120	300/120	340/120

* The dead weight of the best wood CLT BOX – CEILING FS and the chippings in the rafter has already been taken into account.

These tables are only intended for pre-dimensioning and are no substitute for structural analysis.

Fire resistance: R60

Example for a CLT BOX– CEILING FS in a multi-family house:

Design values:		**Result: 340/80**	
Permanent load	g = 2.50 kN/m²	Thickness of ceiling	= 340 mm
Live load	q = 3.00 kN/m²	Rib width	= 80 mm
Span length	l = 9.00 m	Charring rate	= R60

The following parameters and certificates were taken into account in the calculations for the dimensioning aid best wood CLT BOX – CEILING FS:

- Element width: 1.25 m
- Verification with 40 kg/m² chippings in the CLT BOX – CEILING FS
- Certificate of load-bearing capacity according to DIN EN 1995-1-1:2010-12 with NA:2013-08
- Certificate of structural fire design according to DIN EN 1995-1-2:2010-12 with NA:2010-12
- Upper CLT panel: 60 mm; lower CLT panel: 60 mm
- Application class 1
- Load duration class of the intermittent load: medium
- $\Psi_2 = 0.3$; $k_{def} = 0.60$; C24
- Ultimate limit state: Certificate of bending stress, certificate of (rolling) shear stress
- Serviceability limit state: Initial deflection ≤l/300; final deflection ≤ l/200; total deflection ≤ l/300
- Verification of vibration: Width of the ceiling panel b = 1.2* l; additional rigidity $EI_{x,y}$ from 5 cm screed slab; modal damping ratio ζ = 0.03; limitation of acceleration a ≤ 0.4 m/s²

best wood SCHNEIDER

Dimensioning aid
best wood **CLT BOX – CEILING FS**

(lower CLT panel 90 mm)



Perm. loads* [kN/m²]	Live loads [kN/m²]	Span length of single span beams [m]						Span lengths of double span beams [m]					
		6.00	7.00	8.00	9.00	10.00	11.00	3.00	4.00	5.00	6.00	7.00	8.00
1.00	1.00	250/80	310/80	310/120	290/80	310/80	350/80	250/80	250/80	250/80	250/80	310/80	310/120
	1.50					330/80							
	2.00						370/80						
	3.00				310/80	350/80	390/80						
	5.00	250/100			350/100	390/100	430/100			250/100	250/100	310/100	
2.50	1.00	290/80	250/80	290/80	330/80	370/80	410/80	250/80	250/80	250/80	290/80	250/100	250/100
	1.50						410/120						
	2.00				330/120	390/80	430/80						
	3.00		270/80	310/80	350/80							250/120	250/120
	5.00	290/100	290/100	330/100	370/100	410/100	450/120			250/100	290/100	270/120	310/120
4.00	1.00	250/80	290/80	330/80	370/80	410/100	470/80	250/80	250/80	250/100	250/100	250/120	250/120
	1.50					430/80							
	2.00				370/100								
	3.00	250/100	290/100	330/100	390/100	430/100	490/100				250/120		290/120
	5.00	250/120	310/100	350/100		450/100			250/100	250/120	270/120	310/120	350/120

* The dead weight of the best wood CLT BOX – CEILING FS and the chippings in the rafter has already been taken into account.

These tables are only intended for pre-dimensioning and are no substitute for structural analysis.

Fire resistance: R90

Example for a CLT BOX– CEILING FS in a multi-family house:

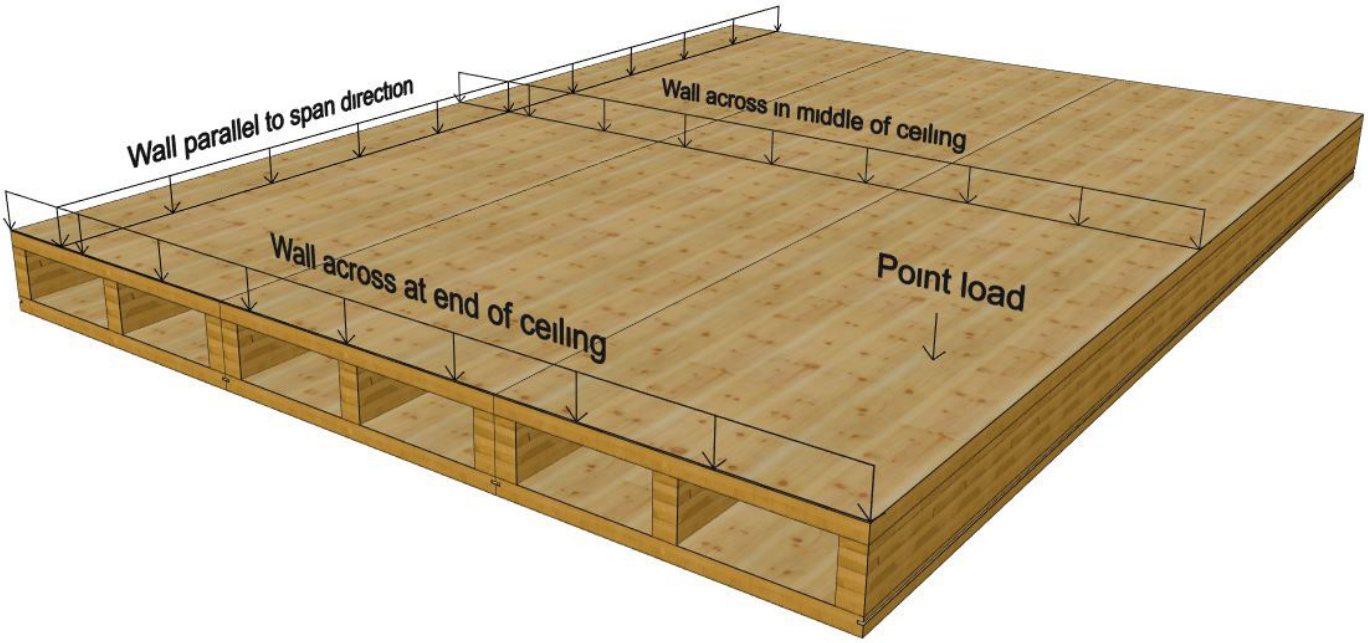
Design values:		**Result: 350/80**	
Permanent load	g = 2.50 kN/m²	Thickness of ceiling	= 350 mm
Live load	q = 3.00 kN/m²	Rib width	= 80 mm
Span length	l = 9.00 m	Charring rate	= R90

The following parameters and certificates were taken into account in the calculations for the dimensioning aid best wood CLT BOX – CEILING FS:

- Element width: 1.25 m
- Verification with 40 kg/m² chippings in the CLT BOX – CEILING FS
- Certificate of load-bearing capacity according to DIN EN 1995-1-1:2010-12 with NA:2013-08
- Certificate of structural fire design according to DIN EN 1995-1-2:2010-12 with NA:2010-12
- Upper CLT panel: 60 mm; lower CLT panel: 90 mm
- Application class 1
- Load duration class of the intermittent load: medium
- $\Psi_2 = 0.3$; $k_{def} = 0.60$; C24
- Ultimate limit state: Certificate of bending stress, certificate of (rolling) shear stress
- Serviceability limit state: Initial deflection ≤l/300; final deflection ≤ l/200; total deflection ≤ l/300
- Verification of vibration: Width of the ceiling panel b = 1.2* l; additional rigidity $EI_{x,y}$ from 5 cm screed slab; modal damping ratio ζ = 0.03; limitation of acceleration a ≤ 0.4 m/s²

Maximum line loads and point loads on closed CLT BOX elements

The line loads and point loads listed in the following are possible on closed CLT BOX elements The specified values must be multiplied by the relevant modification coefficient k_{mod}. The resulting value is the maximum rated value of the effect from the wall standing on the CLT BOX – CEILING.



Line loads:

Wall parallel to ceiling span direction

Ceiling width b [mm]	Wall width b [mm]													
	40	60	80	100	120	140	160	180	200	220	240	260	280	300
900	11.45	11.72	12.01	12.31	12.62	12.96	13.31	13.68	14.07	14.48	14.92	15.38	15.88	16.41
910	11.32	11.58	11.86	12.16	12.46	12.79	13.13	13.49	13.87	14.27	14.70	15.15	15.63	16.14
920	11.19	11.45	11.72	12.01	12.31	12.62	12.96	13.31	13.68	14.07	14.48	14.92	15.38	15.88
930	11.06	11.32	11.58	11.86	12.16	12.46	12.79	13.13	13.49	13.87	14.27	14.70	15.15	15.63
940	10.94	11.19	11.45	11.72	12.01	12.31	12.62	12.96	13.31	13.68	14.07	14.48	14.92	15.38
950	10.82	11.06	11.32	11.58	11.86	12.16	12.46	12.79	13.13	13.49	13.87	14.27	14.70	15.15
960	10.70	10.94	11.19	11.45	11.72	12.01	12.31	12.62	12.96	13.31	13.68	14.07	14.48	14.92
970	10.59	10.82	11.06	11.32	11.58	11.86	12.16	12.46	12.79	13.13	13.49	13.87	14.27	14.70
980	10.47	10.70	10.94	11.19	11.45	11.72	12.01	12.31	12.62	12.96	13.31	13.68	14.07	14.48
990	10.36	10.59	10.82	11.06	11.32	11.58	11.86	12.16	12.46	12.79	13.13	13.49	13.87	14.27
1000	10.26	10.47	10.70	10.94	11.19	11.45	11.72	12.01	12.31	12.62	12.96	13.31	13.68	14.07
1010	10.15	10.36	10.59	10.82	11.06	11.32	11.58	11.86	12.16	12.46	12.79	13.13	13.49	13.87
1020	10.05	10.26	10.47	10.70	10.94	11.19	11.45	11.72	12.01	12.31	12.62	12.96	13.31	13.68
1030	9.95	10.15	10.36	10.59	10.82	11.06	11.32	11.58	11.86	12.16	12.46	12.79	13.13	13.49
1040	9.85	10.05	10.26	10.47	10.70	10.94	11.19	11.45	11.72	12.01	12.31	12.62	12.96	13.31
1050	9.75	9.95	10.15	10.36	10.59	10.82	11.06	11.32	11.58	11.86	12.16	12.46	12.79	13.13
1060	9.65	9.85	10.05	10.26	10.47	10.70	10.94	11.19	11.45	11.72	12.01	12.31	12.62	12.96
1070	9.56	9.75	9.95	10.15	10.36	10.59	10.82	11.06	11.32	11.58	11.86	12.16	12.46	12.79
1080	9.47	9.65	9.85	10.05	10.26	10.47	10.70	10.94	11.19	11.45	11.72	12.01	12.31	12.62
1090	9.38	9.56	9.75	9.95	10.15	10.36	10.59	10.82	11.06	11.32	11.58	11.86	12.16	12.46
1100	9.29	9.47	9.65	9.85	10.05	10.26	10.47	10.70	10.94	11.19	11.45	11.72	12.01	12.31
1110	9.20	9.38	9.56	9.75	9.95	10.15	10.36	10.59	10.82	11.06	11.32	11.58	11.86	12.16
1120	9.12	9.29	9.47	9.65	9.85	10.05	10.26	10.47	10.70	10.94	11.19	11.45	11.72	12.01
1130	9.03	9.20	9.38	9.56	9.75	9.95	10.15	10.36	10.59	10.82	11.06	11.32	11.58	11.86
1140	8.95	9.12	9.29	9.47	9.65	9.85	10.05	10.26	10.47	10.70	10.94	11.19	11.45	11.72
1150	8.87	9.03	9.20	9.38	9.56	9.75	9.95	10.15	10.36	10.59	10.82	11.06	11.32	11.58
1160	8.79	8.95	9.12	9.29	9.47	9.65	9.85	10.05	10.26	10.47	10.70	10.94	11.19	11.45
1170	8.71	8.87	9.03	9.20	9.38	9.56	9.75	9.95	10.15	10.36	10.59	10.82	11.06	11.32
1180	8.64	8.79	8.95	9.12	9.29	9.47	9.65	9.85	10.05	10.26	10.47	10.70	10.94	11.19
1190	8.56	8.71	8.87	9.03	9.20	9.38	9.56	9.75	9.95	10.15	10.36	10.59	10.82	11.06
1200	8.49	8.64	8.79	8.95	9.12	9.29	9.47	9.65	9.85	10.05	10.26	10.47	10.70	10.94
1210	8.42	8.56	8.71	8.87	9.03	9.20	9.38	9.56	9.75	9.95	10.15	10.36	10.59	10.82
1220	8.34	8.49	8.64	8.79	8.95	9.12	9.29	9.47	9.65	9.85	10.05	10.26	10.47	10.70
1230	8.27	8.42	8.56	8.71	8.87	9.03	9.20	9.38	9.56	9.75	9.95	10.15	10.36	10.59
1240	8.21	8.34	8.49	8.64	8.79	8.95	9.12	9.29	9.47	9.65	9.85	10.05	10.26	10.47
1250	8.14	8.27	8.42	8.56	8.71	8.87	9.03	9.20	9.38	9.56	9.75	9.95	10.15	10.36

The specified loads are in kN/m

Wall across ceiling span direction - on end of ceiling

Ceiling width b [mm]	Wall width b [mm]													
	40	60	80	100	120	140	160	180	200	220	240	260	280	300
900	3.89	5.83	7.78	9.72	11.67	13.61	15.56	17.50	19.45	21.39	23.34	25.28	27.23	29.17
910	3.80	5.71	7.61	9.51	11.41	13.32	15.22	17.12	19.02	20.93	22.83	24.73	26.63	28.54
920	3.72	5.58	7.45	9.31	11.17	13.03	14.89	16.75	18.61	20.47	22.34	24.20	26.06	27.92
930	3.64	5.46	7.29	9.11	10.93	12.75	14.57	16.39	18.21	20.04	21.86	23.68	25.50	27.32
940	3.57	5.35	7.13	8.91	10.70	12.48	14.26	16.05	17.83	19.61	21.39	23.18	24.96	26.74
950	3.49	5.24	6.98	8.73	10.47	12.22	13.96	15.71	17.46	19.20	20.95	22.69	24.44	26.18
960	3.42	5.13	6.84	8.55	10.26	11.97	13.68	15.38	17.09	18.80	20.51	22.22	23.93	25.64
970	3.35	5.02	6.70	8.37	10.05	11.72	13.39	15.07	16.74	18.42	20.09	21.77	23.44	25.12
980	3.28	4.92	6.56	8.20	9.84	11.48	13.12	14.76	16.40	18.04	19.68	21.32	22.96	24.61
990	3.21	4.82	6.43	8.04	9.64	11.25	12.86	14.47	16.07	17.68	19.29	20.90	22.50	24.11
1000	3.15	4.73	6.30	7.88	9.45	11.03	12.60	14.18	15.75	17.33	18.90	20.48	22.06	23.63
1010	3.09	4.63	6.18	7.72	9.27	10.81	12.35	13.90	15.44	16.99	18.53	20.08	21.62	23.17
1020	3.03	4.54	6.06	7.57	9.09	10.60	12.11	13.63	15.14	16.66	18.17	19.68	21.20	22.71
1030	2.97	4.45	5.94	7.42	8.91	10.39	11.88	13.36	14.85	16.33	17.82	19.30	20.79	22.27
1040	2.91	4.37	5.83	7.28	8.74	10.20	11.65	13.11	14.57	16.02	17.48	18.93	20.39	21.85
1050	2.86	4.29	5.72	7.14	8.57	10.00	11.43	12.86	14.29	15.72	17.15	18.58	20.00	21.43
1060	2.80	4.21	5.61	7.01	8.41	9.81	11.22	12.62	14.02	15.42	16.83	18.23	19.63	21.03
1070	2.75	4.13	5.50	6.88	8.26	9.63	11.01	12.38	13.76	15.14	16.51	17.89	19.26	20.64
1080	2.70	4.05	5.40	6.75	8.10	9.45	10.81	12.16	13.51	14.86	16.21	17.56	18.91	20.26
1090	2.65	3.98	5.30	6.63	7.96	9.28	10.61	11.93	13.26	14.59	15.91	17.24	18.56	19.89
1100	2.60	3.91	5.21	6.51	7.81	9.11	10.42	11.72	13.02	14.32	15.62	16.93	18.23	19.53
1110	2.56	3.84	5.11	6.39	7.67	8.95	10.23	11.51	12.79	14.06	15.34	16.62	17.90	19.18
1120	2.51	3.77	5.02	6.28	7.54	8.79	10.05	11.30	12.56	13.81	15.07	16.33	17.58	18.84
1130	2.47	3.70	4.94	6.17	7.40	8.64	9.87	11.10	12.34	13.57	14.81	16.04	17.27	18.51
1140	2.42	3.64	4.85	6.06	7.27	8.49	9.70	10.91	12.12	13.33	14.55	15.76	16.97	18.18
1150	2.38	3.57	4.76	5.96	7.15	8.34	9.53	10.72	11.91	13.10	14.29	15.49	16.68	17.87
1160	2.34	3.51	4.68	5.85	7.02	8.20	9.37	10.54	11.71	12.88	14.05	15.22	16.39	17.56
1170	2.30	3.45	4.60	5.75	6.91	8.06	9.21	10.36	11.51	12.66	13.81	14.96	16.11	17.26
1180	2.26	3.39	4.53	5.66	6.79	7.92	9.05	10.18	11.31	12.45	13.58	14.71	15.84	16.97
1190	2.22	3.34	4.45	5.56	6.67	7.79	8.90	10.01	11.12	12.24	13.35	14.46	15.57	16.69
1200	2.19	3.28	4.38	5.47	6.56	7.66	8.75	9.85	10.94	12.03	13.13	14.22	15.32	16.41
1210	2.15	3.23	4.30	5.38	6.46	7.53	8.61	9.68	10.76	11.84	12.91	13.99	15.06	16.14
1220	2.12	3.18	4.23	5.29	6.35	7.41	8.47	9.53	10.58	11.64	12.70	13.76	14.82	15.88
1230	2.08	3.12	4.17	5.21	6.25	7.29	8.33	9.37	10.41	11.45	12.50	13.54	14.58	15.62
1240	2.05	3.07	4.10	5.12	6.15	7.17	8.20	9.22	10.25	11.27	12.29	13.32	14.34	15.37
1250	2.02	3.02	4.03	5.04	6.05	7.06	8.07	9.07	10.08	11.09	12.10	13.11	14.12	15.12

The specified loads are in kN/m

Wall across ceiling span direction - on middle of ceiling

Ceiling width b [mm]	Wall width b [mm]													
	40	60	80	100	120	140	160	180	200	220	240	260	280	300
900	5.83	8.75	11.67	14.59	17.50	20.42	23.34	26.26	29.17	32.09	35.01	37.93	40.84	43.76
910	5.71	8.56	11.41	14.27	17.12	19.98	22.83	25.68	28.54	31.39	34.24	37.10	39.95	42.80
920	5.58	8.38	11.17	13.96	16.75	19.54	22.34	25.13	27.92	30.71	33.50	36.29	39.09	41.88
930	5.46	8.20	10.93	13.66	16.39	19.13	21.86	24.59	27.32	30.05	32.79	35.52	38.25	40.98
940	5.35	8.02	10.70	13.37	16.05	18.72	21.39	24.07	26.74	29.42	32.09	34.77	37.44	40.12
950	5.24	7.86	10.47	13.09	15.71	18.33	20.95	23.57	26.18	28.80	31.42	34.04	36.66	39.28
960	5.13	7.69	10.26	12.82	15.38	17.95	20.51	23.08	25.64	28.21	30.77	33.33	35.90	38.46
970	5.02	7.53	10.05	12.56	15.07	17.58	20.09	22.60	25.12	27.63	30.14	32.65	35.16	37.67
980	4.92	7.38	9.84	12.30	14.76	17.22	19.68	22.14	24.61	27.07	29.53	31.99	34.45	36.91
990	4.82	7.23	9.64	12.06	14.47	16.88	19.29	21.70	24.11	26.52	28.93	31.34	33.75	36.17
1000	4.73	7.09	9.45	11.82	14.18	16.54	18.90	21.27	23.63	25.99	28.36	30.72	33.08	35.45
1010	4.63	6.95	9.27	11.58	13.90	16.22	18.53	20.85	23.17	25.48	27.80	30.11	32.43	34.75
1020	4.54	6.81	9.09	11.36	13.63	15.90	18.17	20.44	22.71	24.98	27.26	29.53	31.80	34.07
1030	4.45	6.68	8.91	11.14	13.36	15.59	17.82	20.05	22.27	24.50	26.73	28.96	31.18	33.41
1040	4.37	6.55	8.74	10.92	13.11	15.29	17.48	19.66	21.85	24.03	26.22	28.40	30.59	32.77
1050	4.29	6.43	8.57	10.72	12.86	15.00	17.15	19.29	21.43	23.58	25.72	27.86	30.01	32.15
1060	4.21	6.31	8.41	10.52	12.62	14.72	16.83	18.93	21.03	23.13	25.24	27.34	29.44	31.55
1070	4.13	6.19	8.26	10.32	12.38	14.45	16.51	18.58	20.64	22.70	24.77	26.83	28.90	30.96
1080	4.05	6.08	8.10	10.13	12.16	14.18	16.21	18.23	20.26	22.29	24.31	26.34	28.36	30.39
1090	3.98	5.97	7.96	9.94	11.93	13.92	15.91	17.90	19.89	21.88	23.87	25.86	27.85	29.83
1100	3.91	5.86	7.81	9.76	11.72	13.67	15.62	17.58	19.53	21.48	23.44	25.39	27.34	29.29
1110	3.84	5.75	7.67	9.59	11.51	13.43	15.34	17.26	19.18	21.10	23.02	24.93	26.85	28.77
1120	3.77	5.65	7.54	9.42	11.30	13.19	15.07	16.95	18.84	20.72	22.61	24.49	26.37	28.26
1130	3.70	5.55	7.40	9.25	11.10	12.95	14.81	16.66	18.51	20.36	22.21	24.06	25.91	27.76
1140	3.64	5.45	7.27	9.09	10.91	12.73	14.55	16.36	18.18	20.00	21.82	23.64	25.46	27.27
1150	3.57	5.36	7.15	8.93	10.72	12.51	14.29	16.08	17.87	19.66	21.44	23.23	25.02	26.80
1160	3.51	5.27	7.02	8.78	10.54	12.29	14.05	15.81	17.56	19.32	21.07	22.83	24.59	26.34
1170	3.45	5.18	6.91	8.63	10.36	12.08	13.81	15.54	17.26	18.99	20.72	22.44	24.17	25.89
1180	3.39	5.09	6.79	8.49	10.18	11.88	13.58	15.27	16.97	18.67	20.37	22.06	23.76	25.46
1190	3.34	5.01	6.67	8.34	10.01	11.68	13.35	15.02	16.69	18.36	20.02	21.69	23.36	25.03
1200	3.28	4.92	6.56	8.21	9.85	11.49	13.13	14.77	16.41	18.05	19.69	21.33	22.97	24.62
1210	3.23	4.84	6.46	8.07	9.68	11.30	12.91	14.53	16.14	17.75	19.37	20.98	22.60	24.21
1220	3.18	4.76	6.35	7.94	9.53	11.11	12.70	14.29	15.88	17.46	19.05	20.64	22.23	23.81
1230	3.12	4.69	6.25	7.81	9.37	10.93	12.50	14.06	15.62	17.18	18.74	20.31	21.87	23.43
1240	3.07	4.61	6.15	7.68	9.22	10.76	12.29	13.83	15.37	16.91	18.44	19.98	21.52	23.05
1250	3.02	4.54	6.05	7.56	9.07	10.59	12.10	13.61	15.12	16.64	18.15	19.66	21.17	22.69

The specified loads are in kN/m

Point loads:

Contact surface length in ceiling span direction

Ceiling width b [mm]	Max. char. point load max Qk		
	ℓ = 50 mm	ℓ = 100 mm	ℓ = 150 mm
900	1.35	2.69	4.04
910	1.33	2.67	4.00
920	1.32	2.64	3.95
930	1.30	2.61	3.91
940	1.29	2.58	3.87
950	1.28	2.55	3.83
960	1.26	2.53	3.79
970	1.25	2.50	3.75
980	1.24	2.47	3.71
990	1.22	2.45	3.67
1000	1.21	2.43	3.64
1010	1.20	2.40	3.60
1020	1.19	2.38	3.57
1030	1.18	2.35	3.53
1040	1.17	2.33	3.50
1050	1.15	2.31	3.46
1060	1.14	2.29	3.43
1070	1.13	2.27	3.40
1080	1.12	2.25	3.37
1090	1.11	2.22	3.34
1100	1.10	2.20	3.31
1110	1.09	2.18	3.28
1120	1.08	2.17	3.25
1130	1.07	2.15	3.22
1140	1.06	2.13	3.19
1150	1.05	2.11	3.16
1160	1.05	2.09	3.14
1170	1.04	2.07	3.11
1180	1.03	2.06	3.08
1190	1.02	2.04	3.06
1200	1.01	2.02	3.03
1210	1.00	2.00	3.01
1220	0.99	1.99	2.98
1230	0.99	1.97	2.96
1240	0.98	1.96	2.93
1250	0.97	1.94	2.91

The specified loads are in kN