

# Joist depth selection

XX.X	: Linear weight (kg/m)
XX.X	: Load to produce a deflection of L/360 (kN/m)
XX.X	: Price factor based on the economical depth (1.0 is the most economical)

Span (m)	Depth (mm)	Factored load (kN/m)												
		4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5
3	200	9.0	9.0	9.0	9.0	9.3	9.3	9.7	9.7	9.7	9.8	10.1	10.4	12.0
		6.0	7.7	7.7	7.7	9.6	9.6	10.1	10.1	10.1	10.3	10.5	10.9	12.9
		1.03	1.03	1.03	1.01	1.01	1.01	1.02	1.02	1.01	1.03	1.03	1.05	1.09
	250	9.1	9.1	9.1	9.1	9.5	9.5	9.9	9.9	9.9	9.9	10.3	10.3	10.3
		6.0	8.0	10.0	11.5	14.0	14.1	15.0	15.0	15.0	15.0	15.7	15.7	15.7
		1.03	1.03	1.03	1.01	1.02	1.02	1.02	1.02	1.01	1.01	1.02	1.02	1.03
	300	9.0	9.0	9.0	9.6	9.6	9.6	9.8	9.8	10.1	10.1	10.2	10.2	10.2
		6.0	8.0	10.0	12.0	14.0	16.0	18.0	19.9	20.2	20.3	21.3	21.3	21.3
		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	350	9.1	9.1	9.1	9.8	10.0	10.0	10.0	10.0	10.5	10.5	10.5	10.5	11.0
		6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	27.3	28.9
		1.00	1.00	1.00	1.03	1.01	1.01	1.00	1.00	1.01	1.01	1.00	1.00	1.01
	400	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
		6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0
		1.25	1.25	1.25	1.22	1.19	1.19	1.19	1.19	1.17	1.17	1.16	1.17	1.16
	450	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9
		6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0
		1.26	1.26	1.26	1.23	1.20	1.20	1.19	1.19	1.18	1.18	1.17	1.17	1.16
	500	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
		6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0
		1.26	1.26	1.26	1.23	1.20	1.20	1.20	1.20	1.18	1.18	1.17	1.17	1.16

Span (m)	Depth (mm)	Factored load (kN/m)												
		4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5
4	200	8.8	8.8	8.9	9.4	9.4	11.5	12.2	12.1	13.4	14.3	15.2	17.0	17.8
		4.0	4.0	4.2	4.6	4.6	5.4	5.8	6.2	6.9	7.5	8.1	9.1	9.5
		1.03	1.01	1.01	1.02	1.02	1.06	1.05	1.09	1.12	1.12	1.08	1.13	1.16
	250	8.9	8.9	8.9	9.6	9.6	10.0	10.0	11.4	12.9	12.5	12.9	13.7	14.9
		6.0	6.1	6.0	7.0	7.0	7.2	7.2	8.3	9.0	9.3	9.7	10.5	11.3
		1.03	1.01	1.01	1.02	1.01	1.01	1.01	1.05	1.04	1.04	1.01	1.01	1.01
	300	8.9	9.1	9.1	10.2	10.4	10.6	11.2	11.7	12.6	13.3	14.7	15.0	16.1
		6.0	8.0	8.0	8.7	9.3	9.4	10.1	10.3	11.0	11.8	13.3	13.8	14.7
		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.01	1.01	1.03	1.03	1.00	1.03
	350	9.1	9.3	9.3	11.0	10.5	11.0	11.4	11.8	12.4	12.8	14.2	14.7	15.3
		6.0	8.0	10.0	10.2	12.1	12.9	13.2	13.5	14.2	14.5	15.3	16.7	17.6
		1.00	1.00	1.00	1.03	1.02	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	400	11.8	11.8	11.8	13.2	13.2	13.2	13.2	13.3	13.3	13.3	13.7	14.4	15.3
		6.0	8.0	10.0	12.0	14.0	16.0	18.0	19.4	19.4	19.3	19.9	20.8	21.7
		1.20	1.18	1.18	1.19	1.18	1.14	1.11	1.11	1.09	1.08	1.03	1.05	1.09
	450	12.0	12.0	12.0	12.0	13.3	13.3	13.3	13.4	13.4	13.4	13.8	14.1	15.4
		6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	23.6	24.2	24.8	26.5
		1.21	1.18	1.18	1.14	1.18	1.14	1.11	1.11	1.09	1.08	1.03	1.04	1.09
	500	12.1	12.1	12.1	12.1	13.4	13.4	13.4	13.5	13.5	13.5	13.5	14.2	14.7
		6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0
		1.21	1.19	1.19	1.15	1.18	1.14	1.12	1.12	1.09	1.08	1.02	1.04	1.06


Most economical joist

# Joist depth selection

XX.X	: Linear weight (kg/m)
XX.X	: Load to produce a deflection of L/360 (kN/m)
XX.X	: Price factor based on the economical depth (1.0 is the most economical)

Span (m)	Depth (mm)	Factored load (kN/m)												
		4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5
5	250	9.1 3.6 1.05	9.1 3.6 1.01	9.1 3.6 1.01	9.8 3.8 1.06	11.3 4.5 1.05	12.4 5.1 1.07	13.7 5.6 1.09	14.6 6.0 1.09	15.8 6.6 1.09	18.3 7.6 1.20	18.4 8.0 1.16	20.0 8.6 1.19	21.0 9.2 1.18
	300	8.8 4.3 1.00	9.1 4.9 1.00	9.5 5.1 1.00	9.5 5.1 1.00	11.1 5.8 1.00	11.4 6.1 1.03	12.6 7.0 1.02	13.7 7.5 1.02	14.7 8.2 1.01	15.1 8.6 1.06	17.4 9.9 1.08	17.8 10.2 1.06	19.0 11.0 1.05
	350	9.1 6.0 1.01	9.4 6.6 1.01	9.7 6.7 1.01	9.9 6.9 1.01	11.5 7.3 1.02	11.3 7.6 1.00	11.8 8.2 1.00	12.9 8.9 1.00	13.8 9.7 1.03	14.6 10.4 1.01	15.4 11.0 1.01	17.0 12.1 1.01	17.8 13.1 1.01
	400	11.6 6.0 1.22	11.6 8.0 1.18	11.6 9.7 1.17	12.9 10.7 1.20	12.9 10.7 1.13	12.9 10.7 1.12	12.9 10.7 1.09	12.9 10.7 1.07	13.1 10.8 1.00	13.6 11.1 1.00	13.6 11.1 1.00	15.3 12.3 1.07	16.2 13.4 1.06
	450	11.8 6.0 1.23	11.8 8.0 1.18	11.8 10.0 1.17	11.8 11.9 1.15	13.1 13.2 1.13	13.1 13.2 1.11	13.1 13.2 1.09	13.1 13.3 1.07	13.1 13.3 1.00	13.3 13.4 1.06	13.7 13.7 1.01	13.8 13.8 1.00	15.7 15.3 1.00
	500	11.9 6.0 1.23	11.9 8.0 1.19	11.9 10.0 1.17	11.9 12.0 1.15	13.2 14.0 1.13	13.2 15.8 1.12	13.2 15.8 1.09	13.3 16.0 1.07	13.3 15.9 1.00	13.4 16.1 1.06	13.6 16.2 1.01	14.0 16.6 1.01	15.4 17.7 1.02
	550	12.0 6.0 1.24	12.0 8.0 1.19	12.0 10.0 1.18	12.0 12.0 1.16	13.3 14.0 1.14	13.3 16.0 1.12	13.4 18.0 1.09	13.4 18.7 1.07	13.4 18.7 1.00	13.5 18.8 1.06	13.7 19.1 1.01	14.2 19.6 1.01	14.2 19.5 1.07

Span (m)	Depth (mm)	Factored load (kN/m)												
		4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5
6	300	8.9 2.9 1.00	9.0 2.9 1.00	10.5 3.3 1.00	12.0 3.9 1.04	13.2 4.4 1.02	14.2 4.9 1.02	15.4 5.4 1.04	17.8 6.2 1.11	18.6 6.6 1.09	20.6 7.4 1.13	22.3 7.9 1.16	23.6 8.6 1.18	24.6 9.0 1.23
	350	9.0 3.8 1.01	9.4 4.0 1.01	10.3 4.2 1.00	11.0 4.5 1.00	12.6 5.4 1.00	14.2 6.1 1.00	14.6 6.5 1.01	15.9 7.1 1.05	17.9 7.9 1.03	19.4 8.8 1.06	20.0 9.2 1.06	21.5 9.8 1.08	21.8 10.2 1.11
	400	11.2 5.9 1.17	12.6 6.7 1.21	12.8 6.8 1.14	12.8 6.8 1.12	12.8 6.8 1.08	13.4 7.0 1.08	14.7 7.5 1.09	15.7 8.3 1.11	16.4 8.7 1.06	17.5 9.4 1.08	18.6 10.0 1.11	19.7 10.7 1.16	22.1 11.9 1.29
	450	11.3 6.0 1.18	11.4 7.5 1.15	12.7 8.3 1.11	12.9 8.5 1.12	12.9 8.5 1.08	12.9 8.4 1.05	13.5 8.7 1.03	15.0 9.4 1.08	15.2 9.7 1.02	16.5 10.8 1.05	17.4 11.3 1.07	18.3 12.0 1.05	20.2 13.3 1.19
	500	11.4 6.0 1.18	11.5 8.0 1.16	12.8 10.0 1.12	13.0 10.2 1.12	13.0 10.2 1.08	13.0 10.2 1.05	13.6 10.6 1.03	15.1 11.4 1.08	15.1 11.4 1.01	15.9 12.0 1.03	16.6 13.1 1.02	17.4 13.4 1.03	18.5 14.5 1.04
	550	11.5 6.0 1.18	11.5 8.0 1.16	12.9 10.0 1.12	12.9 11.8 1.09	13.1 12.0 1.08	13.1 12.0 1.04	13.1 12.0 1.00	13.7 12.3 1.00	15.2 13.2 1.00	15.2 13.2 1.00	16.0 14.0 1.00	17.5 15.6 1.02	17.5 15.6 1.01
	600	11.6 6.0 1.19	11.6 8.0 1.16	13.0 10.0 1.12	13.0 12.0 1.10	13.2 13.9 1.08	13.2 13.9 1.04	13.2 13.9 1.00	13.8 14.3 1.01	15.3 15.3 1.00	15.3 15.3 1.01	15.8 15.9 1.01	17.1 17.7 1.00	17.6 18.0 1.00

 Most economical joist

**XX.X** : Linear weight (kg/m)

**XX.X** : Load to produce a deflection of L/360 (kN/m)

**XX.X** : Price factor based on the economical depth (1.0 is the most economical)

Span (m)	Depth (mm)	Factored load (kN/m)												
		4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5
7	350	9.5	9.6	12.4	13.6	14.5	17.4	18.3	19.7	21.9	23.7	25.0	27.0	28.9
		2.6	2.7	3.3	3.8	4.3	5.0	5.5	6.1	6.7	7.4	7.9	8.4	9.1
		1.00	1.00	1.00	1.00	1.02	1.10	1.13	1.18	1.17	1.20	1.28	1.27	1.27
	400	11.1	12.6	12.6	12.7	13.1	15.5	16.3	17.3	18.8	20.5	21.7	24.1	25.3
		4.0	4.5	4.5	4.5	4.7	5.6	6.1	6.4	7.1	7.8	8.2	9.2	9.7
	450	11.2	12.6	12.7	12.7	13.0	13.7	15.8	16.5	17.4	19.2	20.6	21.9	23.8
		4.9	5.6	5.6	5.6	5.7	6.1	7.0	7.6	8.0	8.8	9.5	10.2	11.2
7	500	11.3	11.4	12.7	12.8	12.9	12.9	14.0	16.0	16.6	17.5	18.7	19.8	21.9
		6.0	6.0	6.7	6.8	6.8	6.8	7.3	8.5	9.0	9.5	10.3	11.0	12.1
		1.14	1.11	1.05	1.04	1.00	1.01	1.04	1.08	1.04	1.05	1.10	1.08	1.16
	550	11.4	11.5	12.8	13.0	13.1	13.1	13.8	15.5	16.2	16.3	17.3	18.5	19.8
		6.0	7.2	8.0	8.0	8.1	8.1	8.4	9.3	10.1	10.3	11.0	11.8	12.7
	600	11.6	11.6	13.0	13.0	13.2	13.2	13.4	14.0	15.7	16.4	17.1	18.0	19.0
		6.0	8.0	9.1	9.1	9.3	9.3	9.4	9.7	10.9	11.6	12.1	12.8	13.8
7	650	11.7	11.7	13.1	13.1	13.4	13.4	13.6	14.0	15.9	16.5	17.1	17.6	18.9
		6.0	8.0	10.0	10.4	10.6	10.6	10.7	10.9	12.4	13.1	13.5	14.0	15.2
		1.15	1.12	1.06	1.03	1.01	1.00	1.00	1.01	1.00	1.00	1.00	1.00	1.00

Span (m)	Depth (mm)	Factored load (kN/m)												
		4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5
8	400	11.0	12.5	12.6	14.3	16.1	18.4	20.1	22.5	24.7	27.1	28.8	30.7	32.7
		2.8	3.1	3.1	3.7	4.3	4.9	5.5	6.1	6.7	7.4	7.9	8.4	9.0
		1.02	1.07	1.03	1.11	1.15	1.23	1.27	1.30	1.39	1.41	1.39	1.38	1.34
	450	11.2	12.6	12.7	13.1	13.9	16.4	17.2	18.9	20.5	22.2	23.8	25.2	27.1
		3.5	3.9	3.9	4.1	4.4	5.3	5.6	6.3	6.8	7.4	7.9	8.5	9.2
	500	11.2	12.6	12.8	12.8	13.8	14.7	16.5	17.5	18.7	20.3	21.3	23.2	25.0
		4.2	4.7	4.7	4.7	5.3	5.7	6.4	6.9	7.3	8.1	8.5	9.2	10.0
8	550	11.4	11.4	12.8	12.9	13.1	14.3	14.9	16.6	17.9	18.8	20.1	21.6	23.1
		5.0	5.0	5.6	5.6	5.7	6.4	6.7	7.5	8.2	8.6	9.3	10.1	10.8
		1.01	1.00	1.00	1.00	1.02	1.05	1.05	1.06	1.07	1.09	1.07	1.07	1.07
	600	11.5	11.5	13.0	13.1	13.3	13.6	14.9	16.4	17.3	18.6	19.7	20.7	21.8
		5.8	5.8	6.5	6.5	6.6	6.8	7.6	8.3	8.8	9.6	10.3	11.0	11.6
	650	11.7	11.7	13.1	13.2	13.4	13.5	14.0	15.2	17.1	17.9	19.0	19.9	22.0
		6.0	6.6	7.4	7.5	7.6	7.6	8.0	8.7	9.8	10.5	11.3	11.8	13.2
8	700	11.8	11.9	13.2	13.6	13.6	13.7	13.9	15.4	16.9	17.7	18.6	19.5	21.0
		6.0	7.6	8.5	8.6	8.6	8.6	8.8	9.9	10.7	11.6	12.3	13.0	13.9
		1.03	1.02	1.01	1.04	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00


Most economical joist

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XX.X	: Linear weight (kg/m)
XX.X	: Load to produce a deflection of L/360 (kN/m)
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Span (m)	Depth (mm)	Factored load (kN/m)												
		4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5
9	450	12.4	12.6	13.6	15.3	17.9	19.9	22.6	25.1	27.3	29.5	31.7	34.0	37.1
		2.8	2.8	3.2	3.6	4.3	4.8	5.5	6.1	6.7	7.3	7.9	8.4	9.2
		1.06	1.05	1.06	1.11	1.19	1.25	1.26	1.36	1.37	1.39	1.31	1.36	1.72
	500	11.2	12.6	12.8	13.8	16.4	17.6	19.0	20.7	22.8	24.8	26.8	28.6	31.0
		3.0	3.4	3.4	3.8	4.6	5.0	5.5	6.0	6.7	7.3	7.9	8.5	9.2
		1.02	1.03	1.01	1.06	1.11	1.16	1.14	1.16	1.18	1.25	1.18	1.21	1.19
	550	11.3	12.7	13.0	13.4	14.6	17.0	17.8	19.3	21.1	22.6	25.2	26.5	28.7
		3.6	4.1	4.1	4.3	4.8	5.7	6.0	6.6	7.2	7.8	8.6	9.1	9.9
10	600	11.5	12.9	13.0	13.2	14.2	15.1	17.6	18.4	19.7	21.3	22.9	24.7	26.4
		4.2	4.7	4.7	4.8	5.3	5.7	6.7	7.1	7.7	8.3	9.0	9.7	10.3
		1.00	1.04	1.01	1.01	1.03	1.04	1.08	1.07	1.08	1.07	1.02	1.10	1.09
	650	11.6	11.7	13.3	13.4	13.8	14.6	16.0	17.8	18.8	20.0	21.2	23.0	25.2
		4.8	4.9	5.5	5.5	5.8	6.2	6.9	7.7	8.3	8.9	9.4	10.2	11.1
		1.02	1.00	1.00	1.00	1.01	1.01	1.02	1.04	1.05	1.04	1.01	1.04	1.05
	700	11.7	11.9	13.5	13.5	13.8	14.8	15.8	17.6	18.6	19.7	20.9	22.2	23.9
		5.5	5.6	6.3	6.3	6.4	7.1	7.6	8.5	9.2	9.7	10.2	11.0	11.7
11	750	11.9	12.0	13.7	13.7	13.9	14.4	15.4	16.3	18.4	19.0	20.7	21.4	23.3
		6.0	6.3	7.1	7.1	7.2	7.5	8.1	8.7	10.0	10.4	11.2	11.6	12.7
		1.03	1.00	1.03	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Span (m)	Depth (mm)	Factored load (kN/m)												
		4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5
10	500	12.5	12.7	14.3	17.1	19.8	22.1	24.7	27.6	29.9	32.6	35.8	37.9	41.4
		2.5	2.5	3.0	3.7	4.3	4.9	5.5	6.1	6.7	7.3	8.0	8.5	9.2
		1.07	1.02	1.10	1.20	1.27	1.26	1.32	1.32	1.30	1.34	1.36	1.72	1.57
	550	12.6	12.8	13.9	15.1	17.5	19.0	21.3	23.5	25.5	27.8	30.3	32.2	36.4
		3.0	3.0	3.4	3.8	4.4	4.9	5.5	6.1	6.7	7.3	8.0	8.5	9.6
		1.07	1.01	1.09	1.11	1.19	1.17	1.17	1.22	1.19	1.21	1.23	1.21	1.50
	600	11.5	13.0	13.4	14.2	16.9	17.8	19.5	21.8	22.9	25.7	27.4	29.2	31.5
		3.2	3.6	3.7	4.0	4.8	5.2	5.7	6.5	6.9	7.7	8.2	8.8	9.5
		1.03	1.01	1.06	1.08	1.14	1.12	1.11	1.13	1.09	1.13	1.16	1.14	1.38
	650	11.6	13.2	13.3	14.4	15.3	17.6	18.7	20.4	22.1	24.0	26.4	27.9	29.3
		3.7	4.1	4.1	4.7	4.9	5.8	6.3	6.8	7.5	8.1	9.0	9.6	10.1
		1.04	1.02	1.03	1.09	1.09	1.10	1.08	1.09	1.06	1.07	1.14	1.11	1.02
	700	11.8	13.4	13.4	14.0	14.9	16.2	18.4	19.7	21.2	22.7	24.7	27.0	28.4
		4.2	4.7	4.7	5.0	5.4	5.9	6.9	7.4	8.1	8.6	9.4	10.4	11.0
		1.00	1.00	1.04	1.06	1.07	1.06	1.07	1.06	1.04	1.03	1.08	1.09	1.00
	750	11.8	13.3	13.5	13.5	15.1	17.0	17.8	19.1	21.0	22.6	23.8	26.1	28.6
		4.6	5.2	5.2	5.2	6.0	6.8	7.3	7.8	8.8	9.4	9.8	10.9	11.9
		1.01	1.01	1.00	1.00	1.01	1.05	1.02	1.02	1.00	1.01	1.01	1.38	1.00
	800	12.0	13.4	13.6	13.8	14.8	15.9	17.6	18.7	20.6	22.5	23.6	24.7	27.1
		5.2	5.8	5.9	5.9	6.4	7.0	7.9	8.3	9.2	10.2	10.7	11.1	12.3
		1.01	1.01	1.00	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

 Most economical joist

XX.X : Linear weight (kg/m)  
 XX.X : Load to produce a deflection of L/360 (kN/m)  
 XX.X : Price factor based on the economical depth (1.0 is the most economical)

Span (m)	Depth (mm)	Factored load (kN/m)												
		4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5
11	550	12.6	13.1	15.7	18.6	21.4	24.6	27.3	30.2	32.8	36.0	40.8	44.5	44.5
		2.3	2.4	3.1	3.7	4.3	4.9	5.5	6.1	6.7	7.3	8.3	9.1	9.1
		1.05	1.05	1.11	1.16	1.22	1.28	1.31	1.29	1.27	1.62	1.66	1.68	1.26
	600	12.7	12.9	13.9	16.9	18.6	21.1	23.8	25.7	28.6	31.0	33.8	36.3	38.7
		2.7	2.7	3.1	3.8	4.2	4.8	5.5	6.0	6.8	7.3	7.9	8.5	9.1
		1.06	1.03	1.04	1.09	1.13	1.17	1.22	1.19	1.17	1.16	1.52	1.56	1.21
	650	12.9	13.0	14.0	15.3	17.7	19.2	22.1	23.3	25.5	28.5	30.2	32.7	36.7
		3.1	3.2	3.5	3.9	4.6	5.0	5.8	6.1	6.8	7.7	8.1	8.7	9.8
		1.06	1.01	1.04	1.03	1.09	1.06	1.15	1.11	1.10	1.10	1.44	1.44	1.16
	700	11.7	13.3	13.7	14.7	17.4	18.5	21.0	22.3	24.7	26.4	29.8	31.1	32.9
		3.2	3.6	3.7	4.1	5.0	5.3	6.1	6.6	7.3	7.8	8.7	9.2	9.7
		1.00	1.00	1.01	1.01	1.05	1.03	1.07	1.03	1.07	1.06	1.43	1.41	1.08
	750	11.8	13.4	13.5	14.7	15.8	18.2	20.2	21.2	22.9	25.7	28.0	30.5	32.3
		3.6	4.1	4.1	4.6	5.0	5.9	6.6	7.0	7.5	8.4	9.2	10.0	10.5
		1.01	1.01	1.00	1.00	1.00	1.02	1.04	1.00	1.01	1.04	1.39	1.40	1.08
	800	11.9	13.6	13.8	14.8	15.9	18.1	18.9	20.8	22.9	25.1	26.9	29.9	31.4
		4.0	4.6	4.6	5.1	5.5	6.4	6.7	7.4	8.2	9.0	9.7	10.7	11.3
		1.01	1.03	1.00	1.00	1.02	1.00	1.00	1.00	1.00	1.01	1.04	1.40	1.07
	900	12.2	13.6	13.9	14.2	17.1	17.5	19.5	21.3	23.3	25.5	26.8	28.2	30.6
		5.0	5.6	5.6	5.7	7.0	7.3	8.1	8.9	9.9	10.9	11.4	12.1	13.5
		1.04	1.01	1.00	1.01	1.02	1.02	1.02	1.01	1.01	1.00	1.00	1.00	1.00

Span (m)	Depth (mm)	Factored load (kN/m)												
		4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5
12	600	12.7	13.9	17.3	20.0	23.2	26.5	29.5	32.7	36.0	41.5	44.9	48.3	48.5
		2.1	2.4	3.1	3.7	4.3	4.9	5.5	6.1	6.8	7.7	8.4	9.1	9.1
		1.01	1.07	1.13	1.19	1.23	1.26	1.22	1.23	1.23	1.55	1.30	1.37	1.32
	650	12.8	13.3	15.2	18.0	20.7	23.0	26.4	29.1	31.7	36.3	37.2	41.7	45.1
		2.5	2.6	3.1	3.7	4.3	4.8	5.5	6.2	6.7	7.8	7.8	8.9	9.7
		1.01	1.02	1.05	1.11	1.13	1.11	1.14	1.13	1.13	1.46	1.21	1.23	1.22
	700	12.9	13.1	14.6	17.4	18.9	21.3	23.6	26.9	28.8	31.1	33.8	37.4	38.1
		2.8	2.8	3.3	3.9	4.4	5.0	5.5	6.3	6.8	7.3	7.9	8.9	9.1
		1.00	1.00	1.02	1.07	1.07	1.05	1.02	1.08	1.07	1.34	1.14	1.17	1.16
	750	13.3	13.5	14.5	17.3	18.3	20.4	22.6	26.2	27.9	29.3	33.0	34.5	37.8
		3.2	3.2	3.6	4.3	4.7	5.3	5.9	6.8	7.4	7.8	8.7	9.1	10.1
		1.00	1.01	1.03	1.06	1.02	1.01	1.02	1.06	1.05	1.01	1.13	1.13	1.15
	800	13.5	13.7	14.2	15.8	18.1	19.8	21.8	24.6	26.6	28.5	31.1	33.6	35.0
		3.6	3.6	3.8	4.3	5.1	5.6	6.2	7.0	7.7	8.3	9.0	9.8	10.2
		1.05	1.02	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.01	1.11	1.11	1.09
	900	13.6	13.8	14.2	15.8	18.0	19.9	22.2	24.1	26.2	29.1	30.6	32.4	33.7
		4.4	4.5	4.5	5.2	6.0	6.7	7.4	8.2	9.0	10.0	10.7	11.5	12.0
		1.03	1.00	1.00	1.01	1.02	1.01	1.01	1.02	1.01	1.00	1.05	1.05	1.03
	1 000	14.0	14.4	14.5	15.2	17.8	20.5	22.4	23.7	26.3	27.6	28.8	31.4	32.7
		5.4	5.4	5.5	5.7	6.8	7.8	8.8	9.4	10.5	11.1	11.7	12.9	13.5
		1.67	1.63	1.58	1.50	1.49	1.45	1.35	1.29	1.25	1.20	1.00	1.00	1.00

Most economical joist

# Joist depth selection

XX.X	: Linear weight (kg/m)
XX.X	: Load to produce a deflection of L/360 (kN/m)
XX.X	: Price factor based on the economical depth (1.0 is the most economical)

Span (m)	Depth (mm)	Factored load (kN/m)												
		4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5
13	650	<b>13.0</b>	<b>15.1</b>	<b>18.4</b>	<b>21.7</b>	<b>25.0</b>	<b>28.6</b>	<b>32.2</b>	<b>36.2</b>	<b>41.8</b>	<b>45.0</b>	<b>48.5</b>	<b>51.8</b>	<b>52.3</b>
		2.0	2.4	3.0	3.6	4.2	4.9	5.5	6.2	7.1	7.7	8.3	8.9	9.1
		1.01	1.06	1.13	1.18	1.24	1.19	1.21	1.24	1.59	1.44	1.35	1.32	1.31
	700	<b>13.1</b>	<b>14.2</b>	<b>17.4</b>	<b>19.3</b>	<b>22.7</b>	<b>25.0</b>	<b>28.6</b>	<b>31.3</b>	<b>34.3</b>	<b>38.0</b>	<b>42.5</b>	<b>45.3</b>	<b>49.3</b>
		2.3	2.5	3.2	3.6	4.3	4.8	5.5	6.0	6.6	7.3	8.2	8.8	9.6
	750	<b>13.2</b>	<b>13.7</b>	<b>15.8</b>	<b>18.2</b>	<b>20.9</b>	<b>23.5</b>	<b>26.2</b>	<b>29.1</b>	<b>31.5</b>	<b>34.3</b>	<b>37.7</b>	<b>43.6</b>	<b>46.0</b>
		2.6	2.7	3.2	3.8	4.4	4.9	5.6	6.2	6.8	7.3	8.1	9.4	10.0
14	800	<b>13.4</b>	<b>13.9</b>	<b>15.6</b>	<b>18.2</b>	<b>20.2</b>	<b>22.8</b>	<b>25.6</b>	<b>28.3</b>	<b>30.3</b>	<b>32.9</b>	<b>35.5</b>	<b>39.2</b>	<b>44.2</b>
		2.9	3.0	3.5	4.1	4.7	5.3	6.0	6.7	7.1	7.8	8.4	9.3	10.6
	900	<b>13.5</b>	<b>14.0</b>	<b>15.7</b>	<b>17.7</b>	<b>19.4</b>	<b>22.0</b>	<b>24.8</b>	<b>26.9</b>	<b>28.5</b>	<b>31.9</b>	<b>33.2</b>	<b>35.9</b>	<b>40.9</b>
		3.6	3.6	4.1	4.8	5.3	6.1	6.9	7.4	8.0	9.1	9.5	10.3	11.7
	1 000	<b>13.7</b>	<b>14.1</b>	<b>14.8</b>	<b>17.4</b>	<b>19.8</b>	<b>21.2</b>	<b>23.9</b>	<b>26.1</b>	<b>28.1</b>	<b>30.2</b>	<b>31.5</b>	<b>35.0</b>	<b>36.5</b>
		4.3	4.3	4.5	5.4	6.2	6.8	7.8	8.6	9.3	10.1	10.6	11.7	12.3
	1 100	<b>14.3</b>	<b>14.6</b>	<b>14.7</b>	<b>18.7</b>	<b>20.7</b>	<b>22.1</b>	<b>23.6</b>	<b>26.1</b>	<b>27.6</b>	<b>29.6</b>	<b>31.3</b>	<b>33.4</b>	<b>36.0</b>

Span (m)	Depth (mm)	Factored load (kN/m)												
		4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5
14	700	<b>13.2</b>	<b>16.0</b>	<b>20.0</b>	<b>23.7</b>	<b>26.8</b>	<b>30.5</b>	<b>34.3</b>	<b>38.2</b>	<b>45.2</b>	<b>45.1</b>	<b>51.9</b>	<b>56.2</b>	<b>57.1</b>
		1.9	2.4	3.1	3.7	4.2	4.9	5.4	6.1	7.1	7.2	8.4	9.0	9.2
		1.02	1.07	1.11	1.21	1.16	1.15	1.17	1.42	1.36	1.24	1.34	1.38	1.32
	750	<b>13.1</b>	<b>14.9</b>	<b>18.1</b>	<b>21.0</b>	<b>24.4</b>	<b>27.5</b>	<b>31.3</b>	<b>34.5</b>	<b>37.9</b>	<b>42.0</b>	<b>45.3</b>	<b>49.1</b>	<b>52.9</b>
		2.1	2.5	3.1	3.6	4.3	4.8	5.5	6.1	6.7	7.5	8.1	8.8	9.6
	800	<b>13.3</b>	<b>14.5</b>	<b>17.5</b>	<b>19.7</b>	<b>22.5</b>	<b>25.6</b>	<b>28.4</b>	<b>31.2</b>	<b>37.2</b>	<b>37.6</b>	<b>43.0</b>	<b>45.7</b>	<b>45.9</b>
		2.3	2.6	3.3	3.7	4.3	4.9	5.5	6.1	7.2	7.4	8.4	9.1	9.1
15	900	<b>13.5</b>	<b>14.3</b>	<b>17.1</b>	<b>19.1</b>	<b>22.2</b>	<b>24.4</b>	<b>27.5</b>	<b>30.3</b>	<b>33.3</b>	<b>35.9</b>	<b>37.5</b>	<b>42.2</b>	<b>44.3</b>
		2.9	3.0	3.8	4.3	5.0	5.6	6.3	7.0	7.9	8.5	8.9	10.0	10.7
	1 000	<b>13.9</b>	<b>14.3</b>	<b>17.0</b>	<b>18.5</b>	<b>21.1</b>	<b>24.6</b>	<b>26.5</b>	<b>28.7</b>	<b>31.5</b>	<b>33.2</b>	<b>36.4</b>	<b>40.7</b>	<b>42.0</b>
		3.6	3.6	4.3	4.8	5.7	6.6	7.2	7.9	8.8	9.3	10.3	11.3	11.9
	1 100	<b>14.1</b>	<b>14.5</b>	<b>17.2</b>	<b>19.1</b>	<b>21.5</b>	<b>23.2</b>	<b>26.1</b>	<b>27.8</b>	<b>29.5</b>	<b>32.8</b>	<b>35.4</b>	<b>36.1</b>	<b>41.0</b>
		4.2	4.2	4.8	5.7	6.4	7.1	8.1	8.7	9.4	10.5	11.4	11.7	13.1
	1 200	<b>15.6</b>	<b>15.6</b>	<b>16.3</b>	<b>18.8</b>	<b>22.0</b>	<b>23.6</b>	<b>26.0</b>	<b>27.3</b>	<b>29.7</b>	<b>31.7</b>	<b>33.0</b>	<b>36.4</b>	<b>40.7</b>

Most economical joist

**XX.X** : Linear weight (kg/m)

**XX.X** : Load to produce a deflection of L/360 (kN/m)

**XX.X** : Price factor based on the economical depth (1.0 is the most economical)

Span (m)	Depth (mm)	Factored load (kN/m)												
		4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5
15	750	<b>14.1</b> 1.9 1.04	<b>17.6</b> 2.5 1.09	<b>21.4</b> 3.1 1.12	<b>25.2</b> 3.7 1.11	<b>29.2</b> 4.3 1.11	<b>33.1</b> 4.9 1.20	<b>37.2</b> 5.5 1.10	<b>41.9</b> 6.2 1.26	<b>45.5</b> 6.7 1.27	<b>49.0</b> 7.2 1.24	<b>52.5</b> 7.8 1.30	<b>57.0</b> 8.5 1.33	<b>61.0</b> 9.1 1.38
		<b>13.6</b> 2.0 1.02	<b>16.1</b> 2.5 1.04	<b>19.6</b> 3.1 1.07	<b>22.9</b> 3.7 1.03	<b>26.3</b> 4.2 1.04	<b>30.2</b> 4.9 1.05	<b>34.0</b> 5.5 1.08	<b>37.6</b> 6.1 1.20	<b>42.5</b> 6.9 1.23	<b>45.9</b> 7.6 1.19	<b>49.6</b> 8.2 1.25	<b>53.3</b> 8.9 1.24	<b>58.0</b> 9.6 1.34
		<b>13.7</b> 2.4 1.00	<b>15.4</b> 2.8 1.00	<b>18.2</b> 3.4 1.00	<b>21.2</b> 4.0 1.00	<b>24.4</b> 4.6 1.00	<b>27.6</b> 5.2 1.00	<b>30.8</b> 6.0 1.00	<b>33.8</b> 6.6 1.12	<b>36.7</b> 7.3 1.13	<b>41.6</b> 8.2 1.11	<b>43.8</b> 8.8 1.15	<b>46.7</b> 9.5 1.12	<b>50.9</b> 10.3 1.19
	1 000	<b>13.9</b> 3.0 1.54	<b>14.7</b> 3.1 1.45	<b>18.1</b> 4.0 1.42	<b>20.1</b> 4.5 1.29	<b>24.2</b> 5.4 1.22	<b>26.3</b> 6.0 1.17	<b>28.9</b> 6.7 1.16	<b>31.3</b> 7.3 1.03	<b>35.2</b> 8.2 1.08	<b>36.6</b> 8.7 1.01	<b>41.6</b> 9.7 1.05	<b>42.3</b> 9.9 1.03	<b>46.4</b> 11.1 1.06
		<b>14.1</b> 3.5 1.54	<b>14.7</b> 3.6 1.42	<b>18.1</b> 4.4 1.35	<b>20.2</b> 5.2 1.25	<b>22.4</b> 5.8 1.16	<b>25.7</b> 6.7 1.16	<b>28.0</b> 7.4 1.10	<b>30.6</b> 8.2 1.03	<b>32.9</b> 8.9 1.03	<b>35.7</b> 9.7 1.00	<b>40.6</b> 10.9 1.04	<b>41.2</b> 11.2 1.01	<b>42.9</b> 11.7 1.02
	1 200	<b>15.3</b> 4.2 1.50	<b>15.7</b> 4.3 1.38	<b>18.5</b> 5.2 1.38	<b>20.7</b> 5.8 1.28	<b>22.1</b> 6.4 1.15	<b>25.6</b> 7.6 1.15	<b>27.3</b> 8.2 1.10	<b>29.4</b> 8.9 1.00	<b>31.7</b> 9.7 1.00	<b>35.1</b> 10.7 1.00	<b>36.4</b> 11.3 1.00	<b>40.9</b> 12.4 1.00	<b>42.3</b> 12.9 1.00
		<b>15.6</b> 4.8 1.56	<b>16.3</b> 5.0 1.49	<b>18.3</b> 5.6 1.42	<b>20.1</b> 6.2 1.30	<b>23.3</b> 7.4 1.21	<b>24.6</b> 8.1 1.14	<b>27.4</b> 9.0 1.15	<b>29.0</b> 9.8 1.01	<b>31.4</b> 10.5 1.02	<b>33.3</b> 11.4 1.01	<b>36.0</b> 12.3 1.01	<b>41.1</b> 13.8 1.02	<b>42.0</b> 14.2 1.01

Span (m)	Depth (mm)	Factored load (kN/m)												
		4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5
16	750	<b>15.6</b> 1.8 1.08	<b>18.4</b> 2.2 1.14	<b>21.3</b> 2.6 1.14	<b>23.9</b> 2.9 1.18	<b>27.2</b> 3.3 1.18	<b>29.4</b> 3.6 1.14	<b>32.6</b> 4.0 1.22	<b>35.6</b> 4.4 1.23	<b>40.5</b> 5.0 1.20	<b>44.2</b> 5.5 1.22	<b>44.8</b> 5.5 1.29	<b>49.1</b> 6.1 1.40	<b>52.0</b> 6.5 1.37
		<b>14.6</b> 1.8 1.05	<b>17.1</b> 2.2 1.09	<b>19.3</b> 2.6 1.08	<b>21.7</b> 2.9 1.09	<b>24.4</b> 3.3 1.12	<b>27.1</b> 3.7 1.07	<b>29.8</b> 4.0 1.22	<b>32.2</b> 4.4 1.13	<b>34.7</b> 4.7 1.11	<b>37.2</b> 5.1 1.12	<b>42.2</b> 5.8 1.26	<b>42.7</b> 5.8 1.27	<b>46.0</b> 6.4 1.25
		<b>14.0</b> 2.1 1.00	<b>15.2</b> 2.3 1.00	<b>17.9</b> 2.8 1.00	<b>19.4</b> 3.1 1.00	<b>20.9</b> 3.3 1.00	<b>23.6</b> 3.8 1.00	<b>25.3</b> 4.1 1.00	<b>27.2</b> 4.4 1.00	<b>29.8</b> 4.8 1.00	<b>31.7</b> 5.2 1.00	<b>33.1</b> 5.5 1.08	<b>36.1</b> 6.0 1.12	<b>37.5</b> 6.3 1.10
	1 000	<b>14.1</b> 2.5 1.52	<b>15.2</b> 2.8 1.49	<b>17.5</b> 3.2 1.42	<b>19.1</b> 3.5 1.39	<b>20.9</b> 3.9 1.34	<b>23.0</b> 4.3 1.23	<b>25.2</b> 4.8 1.25	<b>26.6</b> 5.1 1.22	<b>27.9</b> 5.3 1.15	<b>30.2</b> 5.9 1.16	<b>31.5</b> 6.2 1.03	<b>33.4</b> 6.6 1.07	<b>36.0</b> 7.1 1.07
		<b>14.3</b> 3.0 1.51	<b>14.9</b> 3.1 1.46	<b>17.7</b> 3.6 1.34	<b>19.4</b> 4.1 1.37	<b>20.5</b> 4.4 1.26	<b>22.3</b> 4.8 1.19	<b>24.2</b> 5.2 1.20	<b>25.7</b> 5.7 1.18	<b>27.4</b> 6.2 1.13	<b>29.5</b> 6.6 1.12	<b>31.0</b> 7.0 1.01	<b>32.4</b> 7.4 1.04	<b>35.2</b> 8.0 1.06
	1 200	<b>15.5</b> 3.6 1.47	<b>15.6</b> 3.6 1.41	<b>16.7</b> 3.8 1.34	<b>18.8</b> 4.4 1.33	<b>20.2</b> 4.8 1.27	<b>21.4</b> 5.2 1.18	<b>22.8</b> 5.6 1.16	<b>25.0</b> 6.2 1.17	<b>26.2</b> 6.6 1.11	<b>28.3</b> 7.2 1.10	<b>30.2</b> 7.7 1.01	<b>31.9</b> 8.2 1.05	<b>33.2</b> 8.6 1.01
		<b>15.3</b> 4.0 1.49	<b>15.9</b> 4.2 1.44	<b>17.3</b> 4.5 1.39	<b>18.6</b> 4.9 1.34	<b>21.3</b> 5.8 1.33	<b>22.2</b> 5.9 1.22	<b>22.3</b> 6.1 1.18	<b>23.4</b> 6.5 1.14	<b>26.5</b> 7.4 1.13	<b>27.1</b> 7.7 1.11	<b>28.7</b> 8.2 1.00	<b>29.8</b> 8.6 1.00	<b>31.1</b> 9.0 1.00

Most economical joist

# Joist depth selection

XX.X	: Linear weight (kg/m)
XX.X	: Load to produce a deflection of L/360 (kN/m)
XX.X	: Price factor based on the economical depth (1.0 is the most economical)

Span (m)	Depth (mm)	Factored load (kN/m)												
		4.5	5.4	6.3	7.2	8.1	9.0	9.9	10.8	11.7	12.6	13.5	14.4	15.3
17	800	16.6	19.7	22.4	25.3	28.9	31.7	34.5	37.0	41.0	44.7	48.7	52.2	52.3
		1.8	2.2	2.6	2.9	3.3	3.7	4.0	4.4	4.8	5.2	5.7	6.2	6.2
		1.07	1.10	1.12	1.12	1.12	1.12	1.10	1.08	1.09	1.27	1.33	1.35	1.33
	900	15.1	17.4	19.1	21.6	24.4	26.5	29.4	31.5	34.3	36.2	38.3	41.7	46.0
		1.9	2.3	2.6	3.0	3.3	3.7	4.1	4.4	4.8	5.1	5.4	5.9	6.7
		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.13	1.15	1.14	1.18
	1 000	14.2	16.9	18.3	21.0	23.1	25.2	27.3	29.1	30.9	33.1	36.1	36.7	41.5
		2.1	2.6	2.9	3.3	3.6	4.0	4.4	4.8	5.1	5.5	6.0	6.2	7.0
		1.44	1.41	1.36	1.39	1.21	1.23	1.15	1.16	1.11	1.07	1.09	1.07	1.11
17	1 100	14.6	17.4	19.1	20.3	21.8	24.4	26.0	27.7	29.5	31.2	32.6	36.0	40.1
		2.6	3.0	3.4	3.7	4.0	4.5	4.9	5.3	5.7	6.0	6.3	7.1	7.7
		1.43	1.34	1.32	1.26	1.16	1.15	1.10	1.08	1.06	1.00	1.02	1.05	1.07
	1 200	15.3	15.8	18.4	19.7	21.2	22.5	25.8	27.0	28.5	30.7	32.0	33.4	36.1
		3.0	3.1	3.7	4.0	4.4	4.7	5.6	5.9	6.2	6.8	7.1	7.5	8.1
		1.38	1.28	1.32	1.25	1.14	1.11	1.10	1.07	1.02	1.02	1.01	1.01	1.02
	1 300	15.7	16.3	18.4	20.2	21.5	22.4	24.7	26.6	28.0	29.3	30.6	31.9	34.3
		3.5	3.6	4.2	4.7	5.0	5.3	6.0	6.5	6.8	7.2	7.6	7.9	8.6
		1.44	1.38	1.35	1.31	1.19	1.13	1.08	1.08	1.06	1.02	1.00	1.01	1.02
17	1 400	15.6	16.2	17.7	19.8	21.8	22.9	23.8	26.1	27.6	29.0	30.4	32.3	33.3
		3.9	4.1	4.4	5.0	5.6	6.0	6.3	7.1	7.5	7.9	8.4	8.9	9.3
		1.46	1.36	1.33	1.28	1.20	1.13	1.06	1.08	1.06	1.00	1.00	1.00	1.00

Span (m)	Depth (mm)	Factored load (kN/m)												
		4.5	5.4	6.3	7.2	8.1	9.0	9.9	10.8	11.7	12.6	13.5	14.4	15.3
18	900	16.3	19.3	22.0	24.8	28.0	30.5	33.4	37.5	38.8	44.9	45.7	49.5	52.9
		1.8	2.2	2.6	2.9	3.3	3.6	4.0	4.5	4.8	5.5	5.7	6.1	6.6
		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.03	1.17	1.21	1.17	1.24	1.26
	1 000	15.2	17.3	19.6	22.8	25.0	26.8	29.2	31.1	33.2	36.4	40.9	41.7	43.2
		2.0	2.3	2.6	3.1	3.5	3.8	4.1	4.4	4.8	5.3	5.9	6.1	6.3
		1.38	1.29	1.27	1.16	1.12	1.09	1.08	1.06	1.06	1.10	1.09	1.08	1.10
	1 100	15.7	18.2	20.4	21.3	24.4	26.8	28.0	29.2	31.8	35.3	36.0	41.1	41.8
		2.3	2.8	3.1	3.4	3.9	4.3	4.6	4.8	5.3	5.9	6.1	6.9	7.0
		1.31	1.25	1.26	1.10	1.11	1.08	1.03	1.01	1.02	1.07	1.05	1.06	1.04
18	1 200	16.0	18.3	19.8	21.6	22.7	26.0	27.5	29.1	30.7	32.6	36.3	37.0	41.2
		2.7	3.1	3.5	3.8	4.1	4.8	5.1	5.5	5.8	6.3	7.0	7.2	7.9
		1.32	1.29	1.22	1.13	1.06	1.07	1.03	1.02	1.02	1.04	1.03	1.02	1.03
	1 300	15.5	16.5	18.7	21.1	22.1	24.4	26.3	27.6	30.0	31.7	33.1	35.7	37.1
		2.9	3.1	3.6	4.2	4.5	5.1	5.5	5.8	6.4	6.8	7.1	7.7	8.2
		1.33	1.25	1.21	1.11	1.06	1.04	1.01	1.01	1.00	1.03	1.01	1.01	1.01
	1 400	15.8	17.2	18.7	22.1	23.0	24.0	26.6	27.8	29.7	31.0	32.6	35.4	39.7
		3.4	3.7	4.1	4.9	5.2	5.5	6.1	6.5	7.1	7.4	7.8	8.5	9.3
		1.36	1.27	1.20	1.16	1.08	1.03	1.03	1.00	1.00	1.00	1.00	1.00	1.01
18	1 600	19.1	19.4	20.2	21.1	24.8	26.0	27.6	29.1	30.6	33.3	38.0	38.4	39.2
		4.9	4.9	5.1	5.4	6.6	7.0	7.5	7.9	8.6	9.2	10.2	10.5	10.9
		1.51	1.35	1.25	1.12	1.12	1.09	1.04	1.03	1.02	1.03	1.03	1.00	1.00

Most economical joist



XX.X : Linear weight (kg/m)  
 XX.X : Load to produce a deflection of L/360 (kN/m)  
 XX.X : Price factor based on the economical depth (1.0 is the most economical)

Span (m)	Depth (mm)	Factored load (kN/m)												
		4.5	5.4	6.3	7.2	8.1	9.0	9.9	10.8	11.7	12.6	13.5	14.4	15.3
19	1 000	17.3 2.0 1.10	18.9 2.2 1.04	22.2 2.6 1.06	25.0 3.0 1.07	27.1 3.3 1.11	30.0 3.7 1.09	32.7 4.1 1.11	37.6 4.7 1.15	37.6 4.7 1.11	41.5 5.2 1.12	46.1 5.9 1.16	46.1 5.9 1.12	49.9 6.4 1.15
	1 100	17.4 2.2 1.04	19.2 2.5 1.02	21.1 2.9 1.01	23.2 3.2 1.02	25.9 3.6 1.05	27.5 3.9 1.02	30.0 4.3 1.04	32.0 4.6 1.03	35.6 5.2 1.05	39.5 5.7 1.07	41.4 6.1 1.05	42.1 6.2 1.06	43.5 6.4 1.04
	1 200	16.2 2.3 1.00	19.6 3.0 1.01	20.5 3.2 1.00	22.3 3.5 1.00	25.8 4.1 1.05	26.7 4.3 1.00	28.2 4.6 1.00	30.6 5.1 1.01	33.0 5.5 1.03	36.3 6.1 1.05	37.3 6.3 1.01	41.5 6.9 1.05	42.9 7.2 1.04
	1 300	16.3 2.7 1.06	18.4 3.1 1.00	20.4 3.5 1.00	22.4 3.9 1.02	24.6 4.4 1.04	26.5 4.7 1.02	28.2 5.2 1.03	30.1 5.5 1.03	32.6 6.1 1.02	34.0 6.4 1.04	36.8 6.9 1.03	41.6 7.8 1.08	42.7 8.0 1.05
	1 400	16.2 3.0 1.05	18.4 3.5 1.00	20.9 4.0 1.05	21.8 4.3 1.00	23.6 4.7 1.00	26.1 5.2 1.00	27.9 5.7 1.00	29.8 6.1 1.00	31.4 6.5 1.00	33.5 7.1 1.00	36.4 7.7 1.04	41.1 8.5 1.06	41.7 8.7 1.03
	1 600	19.8 4.3 1.16	19.8 4.3 1.03	22.3 4.9 1.06	24.5 5.6 1.06	26.3 6.1 1.07	27.4 6.4 1.02	29.7 7.1 1.05	35.9 8.1 1.09	36.4 8.4 1.04	37.2 8.7 1.03	37.7 8.9 1.00	39.7 9.6 1.00	43.8 10.4 1.03
	1 800	21.4 5.4 1.18	21.4 5.4 1.05	21.8 5.6 1.03	23.1 6.2 1.02	26.8 7.2 1.09	28.0 7.6 1.05	29.0 8.1 1.04	30.2 8.5 1.00	31.8 9.1 1.00	34.5 9.8 1.00	39.4 11.1 1.04	40.2 11.5 1.02	41.1 11.8 1.00

Span (m)	Depth (mm)	Factored load (kN/m)												
		4.5	5.4	6.3	7.2	8.1	9.0	9.9	10.8	11.7	12.6	13.5	14.4	15.3
20	1 000	18.1 1.8 1.05	20.8 2.2 1.09	24.6 2.6 1.09	27.6 2.9 1.12	30.3 3.3 1.09	33.4 3.6 1.11	37.1 4.1 1.14	42.0 4.6 1.18	45.1 5.0 1.17	49.1 5.4 1.19	49.3 5.5 1.17	52.7 5.9 1.19	57.5 6.4 1.27
	1 100	18.3 2.1 1.00	20.3 2.4 1.05	22.8 2.7 1.02	25.2 3.1 1.06	27.7 3.4 1.03	30.1 3.7 1.04	32.7 4.1 1.05	35.8 4.5 1.09	40.6 5.1 1.11	42.0 5.4 1.07	43.5 5.6 1.08	46.1 6.0 1.07	50.4 6.6 1.14
	1 200	18.1 2.3 1.02	19.7 2.6 1.01	22.2 3.0 1.02	24.1 3.3 1.04	27.1 3.8 1.02	28.4 4.0 1.01	30.9 4.4 1.03	33.8 4.9 1.07	36.6 5.3 1.06	41.3 6.0 1.06	42.1 6.2 1.05	44.2 6.6 1.08	47.3 7.1 1.08
	1 300	18.1 2.6 1.04	19.7 3.0 1.03	21.5 3.3 1.02	24.3 3.8 1.04	26.2 4.1 1.01	28.4 4.6 1.01	30.1 4.9 1.02	32.0 5.2 1.04	34.2 5.6 1.03	37.0 6.1 1.02	41.2 6.8 1.04	42.6 7.1 1.05	43.5 7.2 1.04
	1 400	17.4 2.8 1.00	18.7 3.1 1.00	21.0 3.6 1.00	22.6 3.9 1.00	25.7 4.5 1.00	27.5 4.9 1.00	28.8 5.2 1.00	31.7 5.8 1.03	33.1 6.1 1.01	36.5 6.8 1.01	41.1 7.5 1.04	41.9 7.7 1.03	42.7 7.9 1.03
	1 600	18.9 3.7 1.07	19.3 3.7 1.04	20.4 4.1 1.02	22.8 4.8 1.02	25.6 5.4 1.03	27.4 5.9 1.01	28.7 6.2 1.00	30.1 6.6 1.00	32.8 7.2 1.00	35.8 7.9 1.01	39.9 8.7 1.01	40.8 9.0 1.01	42.3 9.4 1.01
	1 800	21.7 4.8 1.11	21.7 4.8 1.06	24.2 5.4 1.06	27.0 6.3 1.09	28.3 6.7 1.05	29.4 7.1 1.03	30.5 7.4 1.01	37.1 8.8 1.07	37.7 9.2 1.04	38.3 9.5 1.00	39.8 9.8 1.00	44.5 10.9 1.00	45.2 11.3 1.00

Most economical joist

# Joist depth selection

XX.X	: Linear weight (kg/m)
XX.X	: Load to produce a deflection of L/360 (kN/m)
XX.X	: Price factor based on the economical depth (1.0 is the most economical)

Span (m)	Depth (mm)	Factored load (kN/m)												
		4.5	5.4	6.3	7.2	8.1	9.0	9.9	10.8	11.7	12.6	13.5	14.4	15.3
22	1 100	20.3 1.8 1.06	23.4 2.2 1.02	26.7 2.5 1.06	30.1 2.9 1.07	33.8 3.3 1.10	36.7 3.6 1.11	41.0 4.0 1.13	45.6 4.6 1.15	49.3 5.0 1.16	53.1 5.4 1.20	53.4 5.4 1.21	57.8 5.8 1.29	61.9 6.3 1.32
	1 200	19.7 2.0 1.02	21.9 2.3 1.01	25.5 2.8 1.04	28.2 3.1 1.03	30.5 3.4 1.03	33.4 3.7 1.07	37.1 4.2 1.08	41.0 4.6 1.09	42.8 4.8 1.06	46.7 5.4 1.10	50.8 5.9 1.18	51.2 5.9 1.18	54.9 6.4 1.19
	1 300	19.2 2.2 1.03	21.6 2.5 1.01	24.1 2.9 1.01	26.6 3.3 1.00	28.3 3.5 1.02	31.8 4.0 1.06	33.7 4.3 1.04	37.2 4.8 1.06	41.7 5.3 1.05	43.3 5.6 1.06	44.8 5.8 1.10	51.3 6.8 1.17	52.1 6.8 1.16
	1 400	18.6 2.4 1.00	21.6 2.8 1.00	23.3 3.1 1.00	26.7 3.7 1.00	28.6 4.0 1.01	31.7 4.5 1.03	33.7 4.8 1.04	36.4 5.3 1.05	41.3 5.9 1.04	42.5 6.1 1.04	44.0 6.4 1.05	46.0 6.7 1.09	52.3 7.8 1.14
	1 600	18.8 2.8 1.03	21.9 3.5 1.01	22.9 3.7 1.00	26.0 4.3 1.00	28.6 4.8 1.00	30.4 5.2 1.00	32.1 5.5 1.00	36.3 6.3 1.06	40.6 6.9 1.01	42.0 7.4 1.02	42.8 7.6 1.03	43.8 7.7 1.04	48.7 8.6 1.10
	1 800	21.4 3.7 1.06	22.2 4.0 1.01	24.9 4.6 1.02	26.7 5.1 1.01	28.6 5.5 1.01	30.6 6.1 1.02	32.1 6.4 1.00	34.0 6.9 1.00	40.3 8.0 1.00	41.0 8.3 1.00	42.3 8.7 1.00	43.0 9.0 1.00	44.0 9.2 1.00
	2 000	22.7 4.5 1.10	26.1 5.0 1.12	27.0 5.4 1.09	28.4 6.0 1.05	29.9 6.6 1.03	36.8 7.6 1.11	38.2 8.3 1.10	39.4 8.6 1.08	39.9 8.9 1.01	44.0 9.6 1.06	45.1 10.2 1.08	46.1 10.5 1.07	51.1 11.3 1.12

Span (m)	Depth (mm)	Factored load (kN/m)												
		4.5	5.4	6.3	7.2	8.1	9.0	9.9	10.8	11.7	12.6	13.5	14.4	15.3
24	1 200	21.8 1.8 1.02	25.5 2.2 1.04	29.2 2.6 1.07	32.5 2.9 1.06	36.5 3.3 1.10	41.1 3.7 1.09	45.6 4.2 1.10	49.7 4.6 1.17	53.1 4.9 1.21	57.5 5.3 1.23	61.8 5.7 1.29	66.4 6.1 1.26	66.9 6.2 1.22
	1 300	21.4 2.0 1.01	24.5 2.4 1.01	27.0 2.6 1.02	29.4 2.9 1.00	32.8 3.3 1.05	36.4 3.7 1.03	41.9 4.3 1.07	42.9 4.4 1.08	47.1 4.9 1.11	51.2 5.3 1.13	55.1 5.8 1.15	59.7 6.3 1.16	60.2 6.3 1.13
	1 400	21.2 2.2 1.00	23.7 2.6 1.00	26.6 2.9 1.00	29.3 3.2 1.00	31.8 3.6 1.02	36.1 4.1 1.04	41.3 4.7 1.04	42.9 4.9 1.06	45.1 5.2 1.10	51.5 6.1 1.12	52.2 6.2 1.09	52.6 6.2 1.03	60.3 7.2 1.11
	1 600	21.9 2.7 1.03	23.2 3.0 1.02	27.3 3.6 1.05	29.8 4.0 1.02	31.1 4.2 1.00	33.9 4.7 1.00	40.7 5.5 1.03	42.2 5.8 1.05	43.6 6.1 1.07	44.3 6.3 1.07	50.2 7.2 1.07	53.4 7.8 1.04	53.7 7.8 1.00
	1 800	22.8 3.2 1.02	27.2 3.9 1.05	27.5 4.1 1.02	29.7 4.6 1.02	31.8 5.1 1.00	38.1 5.8 1.02	39.4 6.2 1.00	40.9 6.6 1.00	41.8 6.8 1.00	46.4 7.6 1.00	47.3 7.8 1.00	52.5 8.5 1.02	55.9 9.4 1.04
	2 000	27.5 4.3 1.15	28.3 4.4 1.09	30.5 5.3 1.09	43.7 6.4 1.29	44.6 7.0 1.26	45.9 7.3 1.21	46.7 7.6 1.16	47.7 8.1 1.15	48.4 8.4 1.14	50.1 8.9 1.09	50.9 9.1 1.06	51.9 9.5 1.00	53.2 9.8 1.00
	2 200	28.0 5.1 1.20	28.3 5.1 1.12	30.3 6.1 1.09	31.3 6.3 1.05	32.4 6.6 1.04	39.1 7.8 1.06	39.8 8.1 1.01	40.4 8.4 1.01	45.0 9.0 1.07	46.4 9.6 1.02	47.4 9.9 1.01	52.7 10.7 1.04	53.9 11.2 1.02

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