

Made of steel ST37 / S235JR with flat or T-profile edging

- **Fv** - Load value at constant load in kN/m²
- **fv** - Deflection value in cm for load Fv
- **Fp** - Load value at concentrated load in kN on an area 200 x 200 mm
- **fp** - Deflection value in cm for load Fp
- Permissible tension for steel: **1600** daN/cm²
- Safety factor yield point: **1.5**
- Safety factor breaking point: **2.35**
- Minimum grating cover = grating height (not less than 300 mm)
-  Area recommended by the manufacturer. In this area the deflection does not exceed 1/200 of the span and is lower than 4 mm at a migrating concentrated load of daN onto the load charge area 200 x 200 mm at any point of the grating
-  In this area the grating is able to absorb migrating loads of 150 daN onto the load charge area 200 x 200 mm at any point of the grating at a maximum deflection of 1/200 span.
-  In this area the deflection is 4 mm at a constant load of 500 daN/m².
-  In this area the max. deflection is 1/200 of the span at a constant load of 500 daN/m².

GRATINGS WITH MESH SPACING: **33 x 33**, **33 x 22**, **33 x 11** - load values from the table

GRATINGS WITH MESH SPACING: **33 x 44**, **33 x 66** - load values from the table **minus 5%**

Supporting bar - measurements [mm]		Span[mm]															
		500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
20 x 2	Fv	18.4	12.7	9.4	7.2	5.7	4.6	3.8	3.2	2.7	2.3	2.0	1.8	1.6	1.4	1.2	1.1
	f _v	0.20	0.30	0.39	0.51	0.64	0.79	0.96	1.14	1.34	1.56	1.79	2.03	2.29	2.57	2.87	3.17
	Fp	1.8	1.4	1.2	1.0	0.9	0.8	0.7	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.4
	f _p	0.20	0.27	0.36	0.46	0.58	0.70	0.85	1.00	1.16	1.34	1.53	1.73	1.95	2.18	2.42	2.67
20 x 3	Fv	27.7	19.2	14.1	10.8	8.5	6.9	5.7	4.8	4.1	3.5	3.0	2.7	2.4	2.1	1.9	1.7
	f _v	0.20	0.29	0.39	0.51	0.64	0.79	0.96	1.14	1.34	1.56	1.79	2.03	2.29	2.57	2.87	3.17
	Fp	2.7	2.2	1.8	1.5	1.3	1.2	1.1	1.0	0.9	0.8	0.8	0.7	0.7	0.6	0.6	0.5
	f _p	0.20	0.27	0.36	0.46	0.58	0.71	0.85	1.00	1.16	1.34	1.53	1.73	1.95	2.18	2.42	2.67
25 x 2	Fv	28.8	20.0	14.7	11.2	8.9	7.2	6.0	5.0	4.2	3.6	3.2	2.8	2.5	2.2	2.0	1.8
	f _v	0.16	0.23	0.31	0.41	0.51	0.63	0.77	0.91	1.07	1.24	1.43	1.62	1.83	2.05	2.29	2.54
	Fp	2.8	2.2	1.9	1.6	1.4	1.2	1.1	1.0	0.9	0.8	0.8	0.7	0.7	0.6	0.6	0.6
	f _p	0.16	0.22	0.29	0.37	0.46	0.56	0.67	0.80	0.93	1.07	1.22	1.38	1.56	1.74	1.93	2.14
25 x 3	Fv	43.1	30.0	22.0	16.9	13.3	10.8	8.9	7.5	6.4	5.5	4.8	4.2	3.7	3.3	3.0	2.7
	f _v	0.16	0.23	0.31	0.41	0.51	0.63	0.77	0.91	1.07	1.24	1.43	1.62	1.83	2.05	2.29	2.54
	Fp	4.2	3.3	2.8	2.4	2.1	1.8	1.6	1.5	1.4	1.3	1.2	1.1	1.0	1.0	0.9	0.8
	f _p	0.16	0.22	0.29	0.37	0.46	0.56	0.67	0.80	0.93	1.07	1.22	1.38	1.56	1.74	1.93	2.14
30 x 2	Fv	41.5	28.8	21.2	16.2	12.8	10.4	8.5	7.2	6.1	5.3	4.6	4.0	3.6	3.2	2.8	2.6
	f _v	0.13	0.19	0.26	0.34	0.43	0.53	0.64	0.76	0.89	1.04	1.19	1.35	1.53	1.71	1.91	2.12
	Fp	4.0	3.2	2.6	2.3	2.0	1.8	1.6	1.4	1.3	1.2	1.1	1.0	1.0	0.9	0.9	0.8
	f _p	0.13	0.18	0.24	0.31	0.39	0.47	0.56	0.66	0.77	0.89	1.02	1.16	1.30	1.45	1.61	1.78
30 x 3	Fv	62.2	43.2	31.7	24.3	19.2	15.6	12.9	10.8	9.2	7.9	6.9	6.1	5.4	4.8	4.3	3.7
	f _v	0.13	0.19	0.26	0.34	0.43	0.53	0.64	0.76	0.89	1.04	1.19	1.35	1.53	1.71	1.91	2.12
	Fp	5.9	4.8	4.0	3.4	3.0	2.6	2.4	2.1	2.0	1.8	1.7	1.6	1.5	1.4	1.3	1.2
	f _p	0.13	0.18	0.24	0.31	0.39	0.47	0.56	0.66	0.77	0.89	1.02	1.16	1.30	1.45	1.61	1.78
30 x 4	Fv	82.9	57.6	42.3	32.4	25.6	20.7	17.1	14.4	12.3	10.6	9.2	8.1	7.2	6.4	5.7	5.2
	f _v	0.13	0.19	0.26	0.34	0.43	0.53	0.64	0.76	0.89	1.04	1.19	1.35	1.53	1.71	1.91	2.12
	Fp	7.9	6.3	5.3	4.5	4.0	3.5	3.2	2.9	2.6	2.4	2.3	2.1	2.0	1.9	1.8	1.7
	f _p	0.13	0.18	0.24	0.31	0.39	0.47	0.56	0.66	0.77	0.89	1.02	1.16	1.30	1.45	1.61	1.78
35 x 2	Fv	57.0	39.0	30.0	22.0	17.8	14.5	12.5	10.0	8.5	7.5	6.4	5.6	5.0	4.5	4.0	3.5
	f _v	0.14	0.19	0.28	0.35	0.45	0.56	0.71	0.81	0.95	1.10	1.30	1.50	1.70	1.90	2.10	2.30
	Fp	4.2	3.4	2.8	2.4	2.1	1.8	1.6	1.4	1.3	1.2	1.1	1.0	0.9	0.9	0.8	0.8
	f _p	0.14	0.20	0.26	0.34	0.43	0.50	0.60	0.69	0.82	0.95	1.10	1.20	1.30	1.60	1.70	1.90
35 x 3	Fv	90.0	65.0	45.0	35.0	28.0	22.0	18.0	15.0	12.7	11.2	9.6	8.4	7.5	6.8	6.0	5.3
	f _v	0.14	0.22	0.28	0.37	0.47	0.57	0.68	0.81	1.00	1.10	1.30	1.50	1.70	2.00	2.10	2.30
	Fp	6.2	5.1	4.2	3.6	3.1	2.7	2.4	2.1	1.9	1.8	1.6	1.5	1.3	1.3	1.2	1.2
	f _p	0.14	0.20	0.26	0.34	0.42	0.50	0.60	0.69	0.80	0.95	1.10	1.20	1.30	1.50	1.70	1.90
40 x 2	Fv	73.7	51.2	37.6	28.8	22.7	18.4	15.2	12.8	10.9	9.4	8.2	7.2	6.3	5.7	5.1	4.6
	f _v	0.10	0.14	0.19	0.25	0.32	0.40	0.48	0.57	0.67	0.78	0.89	1.02	1.15	1.28	1.43	1.59
	Fp	6.9	5.5	4.6	4.0	3.5	3.1	2.8	2.5	2.3	2.1	2.0	1.8	1.7	1.6	1.5	1.4
	f _p	0.10	0.14	0.18	0.23	0.29	0.35	0.42	0.50	0.58	0.67	0.76	0.87	0.97	1.09	1.21	1.34
40 x 3	Fv	110.6	76.8	56.4	43.2	34.1	27.7	22.9	19.2	16.4	14.1	12.3	10.8	9.5	8.5	7.6	6.9
	f _v	0.10	0.14	0.19	0.25	0.32	0.40	0.48	0.57	0.67	0.78	0.89	1.02	1.15	1.29	1.43	1.59
	Fp	10.4	8.3	6.9	5.9	5.2	4.6	4.2	3.8	3.5	3.2	3.0	2.7	2.6	2.4	2.3	2.2
	f _p	0.10	0.14	0.18	0.23	0.29	0.35	0.42	0.50	0.58	0.67	0.77	0.87	0.97	1.09	1.21	1.34
40 x 4	Fv	147.4	102.3	75.2	57.6	45.5	36.8	30.4	25.6	21.8	18.8	16.4	14.4	12.7	11.4	10.2	9.2
	f _v	0.10	0.14	0.19	0.25	0.32	0.40	0.48	0.57	0.67	0.78	0.89	1.02	1.15	1.28	1.43	1.59
	Fp	13.8	11.0	9.2	7.9	6.9	6.1	5.5	5.0	4.6	4.2	3.9	3.7	3.4	3.2	3.1	2.9
	f _p	0.10	0.14	0.18	0.23	0.29	0.35	0.42	0.50	0.58	0.67	0.76	0.87	0.97	1.09	1.21	1.34
50 x 3	Fv	172.8	120.0	88.2	67.5	53.3	43.2	35.7	30.0	25.6	22.0	19.2	16.9	15.0	13.3	11.9	10.8
	f _v	0.08	0.11	0.16	0.20	0.26	0.32	0.38	0.46	0.54	0.62	0.71	0.81	0.92	1.03	1.15	1.27
	Fp	15.9	12.7	10.6	9.1	8.0	7.1	6.4	5.8	5.3	4.9	4.5	4.2	4.0	3.7	3.5	3.3
	f _p	0.08	0.11	0.15	0.19	0.23	0.28	0.34	0.40	0.46	0.54	0.61	0.69	0.78	0.87	0.97	1.07

GRATINGS WITH MESH SPACING: **22 x 33, 22 x 22, 22 x 11** - load values from the tableGRATINGS WITH MESH SPACING: **22 x 44, 22 x 66** - load values from the table **minus 3%**

Supporting bar - measurements [mm]		Span [mm]															
		500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
20 x 2	Fv	27.6	19.2	14.1	10.8	8.5	6.9	5.7	4.8	4.1	3.5	3.0	2.7	2.4	2.1	1.9	1.7
	f _v	0.20	0.29	0.39	0.51	0.64	0.79	0.96	1.14	1.34	1.55	1.79	2.03	2.29	2.57	2.86	3.17
	Fp	2.4	1.9	1.6	1.4	1.2	1.0	0.9	0.8	0.8	0.7	0.7	0.6	0.6	0.5	0.5	0.5
	f _p	0.20	0.27	0.36	0.46	0.58	0.70	0.84	0.99	1.16	1.34	1.53	1.73	1.94	2.17	2.41	2.67
20 x 3	Fv	41.5	28.8	21.2	16.2	12.8	10.4	8.5	7.2	6.1	5.3	4.6	4.0	3.6	3.2	2.8	2.6
	f _v	0.20	0.29	0.39	0.51	0.64	0.79	0.96	1.14	1.34	1.56	1.79	2.03	2.29	2.57	2.87	3.17
	Fp	3.6	2.8	2.4	2.0	1.8	1.6	1.4	1.3	1.2	1.1	1.0	0.9	0.9	0.8	0.8	0.7
	f _p	0.20	0.27	0.36	0.46	0.58	0.71	0.85	1.00	1.16	1.34	1.53	1.73	1.95	2.18	2.42	2.67
25 x 2	Fv	43.1	30.0	22.0	16.9	13.3	10.8	8.9	7.5	6.4	5.5	4.8	4.2	3.7	3.3	3.0	2.7
	f _v	0.16	0.23	0.31	0.41	0.51	0.63	0.77	0.91	1.07	1.24	1.43	1.62	1.83	2.05	2.29	2.54
	Fp	3.7	2.9	2.5	2.1	1.8	1.6	1.5	1.3	1.2	1.1	1.0	1.0	0.9	0.8	0.8	0.8
	f _p	0.20	0.20	0.29	0.37	0.46	0.56	0.67	0.80	0.93	1.07	1.22	1.38	1.56	1.74	1.93	2.10
25 x 3	Fv	64.7	44.9	33.0	25.3	20.0	16.2	13.4	11.2	9.6	8.2	7.2	6.3	5.6	5.0	4.5	4.0
	f _v	0.16	0.23	0.31	0.41	0.51	0.63	0.77	0.91	1.07	1.24	1.43	1.62	1.83	2.05	2.29	2.54
	Fp	5.5	4.4	3.7	3.1	2.8	2.5	2.2	2.0	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1
	f _p	0.16	0.22	0.29	0.37	0.46	0.56	0.67	0.80	0.93	1.07	1.22	1.38	1.56	1.70	1.93	2.14
30 x 2	Fv	62.2	43.2	31.7	24.3	19.2	15.6	12.9	10.8	9.2	7.9	6.9	6.1	5.4	4.8	4.3	3.9
	f _v	0.13	0.19	0.26	0.34	0.43	0.53	0.64	0.76	0.89	1.04	1.19	1.35	1.53	1.71	1.91	2.12
	Fp	4.3	4.2	3.5	3.0	2.6	2.3	2.1	1.9	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.1
	f _p	0.13	0.18	0.24	0.31	0.39	0.47	0.56	0.66	0.77	0.89	1.02	1.16	1.30	1.45	1.61	1.78
30 x 3	Fv	93.3	64.8	47.6	36.5	28.8	23.3	19.3	16.2	13.8	11.9	10.4	9.1	8.0	7.2	6.4	5.8
	f _v	0.13	0.19	0.26	0.34	0.43	0.53	0.64	0.76	0.89	1.04	1.19	1.35	1.53	1.71	1.91	2.12
	Fp	7.9	6.3	5.3	4.5	3.9	3.5	3.2	2.9	2.6	2.4	2.3	2.1	2.0	1.8	1.7	1.6
	f _p	0.13	0.18	0.24	0.31	0.39	0.47	0.56	0.66	0.77	0.89	1.02	1.16	1.30	1.45	1.61	1.78
30 x 4	Fv	124.4	86.4	63.5	48.6	38.4	31.1	25.7	21.6	18.4	15.9	13.8	12.1	10.8	9.6	8.6	7.8
	f _v	0.13	0.19	0.26	0.34	0.43	0.53	0.64	0.76	0.89	1.04	1.19	1.35	1.53	1.71	1.91	2.12
	Fp	10.5	8.4	7.0	6.0	5.3	4.7	4.2	3.8	3.5	3.2	3.0	2.8	2.6	2.5	2.3	2.2
	f _p	0.13	0.18	0.24	0.31	0.39	0.47	0.56	0.66	0.77	0.89	1.02	1.16	1.30	1.45	1.61	1.78
35 x 2	Fv	90.0	62.0	48.0	33.0	26.7	21.7	18.7	15.0	12.7	11.2	9.6	8.4	7.5	6.7	6.0	5.2
	f _v	0.14	0.21	0.29	0.35	0.45	0.55	0.77	0.81	0.94	1.10	1.30	1.50	1.70	1.80	2.10	2.20
	Fp	6.0	5.0	4.2	3.6	3.1	2.7	2.4	2.1	1.9	1.8	1.6	1.5	1.3	1.3	1.2	1.2
	f _p	0.13	0.19	0.26	0.34	0.41	0.50	0.60	0.69	0.80	1.00	1.10	1.20	1.30	1.50	1.70	1.90
35 x 3	Fv	125.0	93.0	67.0	52.0	42.0	33.0	27.0	22.0	19.0	16.8	14.4	12.6	11.2	10.0	9.0	7.8
	f _v	0.14	0.21	0.29	0.35	0.45	0.55	0.77	0.81	0.94	1.10	1.30	1.50	1.70	1.80	2.10	2.20
	Fp	9.0	7.5	6.3	5.4	4.6	4.0	3.6	3.1	2.8	2.7	2.4	2.2	1.9	1.9	1.8	1.8
	f _p	0.13	0.19	0.26	0.34	0.41	0.50	0.60	0.69	0.80	1.00	1.10	1.20	1.30	1.50	1.70	1.90
40 x 2	Fv	110.5	76.8	56.4	43.2	34.1	27.6	22.8	19.2	16.4	14.1	12.3	10.8	9.5	8.5	7.6	6.9
	f _v	0.10	0.14	0.19	0.25	0.32	0.40	0.48	0.57	0.67	0.78	0.89	1.02	1.15	1.28	1.43	1.59
	Fp	9.2	7.4	6.2	5.3	4.6	4.1	3.7	3.4	3.1	2.8	2.6	2.4	2.3	2.1	2.0	1.9
	f _p	0.10	0.14	0.18	0.23	0.29	0.35	0.42	0.50	0.58	0.67	0.76	0.87	0.97	1.09	1.21	1.34
40 x 3	Fv	165.9	115.2	84.6	64.8	51.2	41.5	34.3	28.8	24.5	21.1	18.4	16.2	14.3	12.8	11.5	10.3
	f _v	0.10	0.14	0.19	0.25	0.32	0.40	0.48	0.57	0.67	0.78	0.89	1.02	1.15	1.29	1.43	1.59
	Fp	13.8	11.1	9.2	7.9	6.9	6.2	5.5	5.0	4.6	4.3	4.0	3.7	3.5	3.3	3.1	2.9
	f _p	0.10	0.14	0.18	0.23	0.29	0.35	0.42	0.50	0.58	0.67	0.77	0.87	0.97	1.09	1.21	1.34
40 x 4	Fv	221.0	153.5	112.8	86.3	68.2	55.3	45.7	38.4	32.7	28.2	24.6	21.6	19.1	17.1	15.3	13.8
	f _v	0.10	0.14	0.19	0.25	0.32	0.40	0.48	0.57	0.67	0.78	0.89	1.02	1.15	1.28	1.43	1.59
	Fp	18.4	14.7	12.3	10.5	9.2	8.2	7.4	6.7	6.1	5.7	5.3	4.9	4.6	4.3	4.1	3.9
	f _p	0.10	0.14	0.18	0.23	0.29	0.35	0.42	0.50	0.58	0.67	0.76	0.87	0.97	1.09	1.21	1.34
50 x 3	Fv	259.2	180.0	132.2	101.3	80.0	64.8	53.6	45.0	38.3	33.1	28.8	25.3	22.4	20.0	18.0	16.2
	f _v	0.08	0.11	0.16	0.20	0.26	0.32	0.38	0.46	0.54	0.62	0.71	0.81	0.92	1.03	1.15	1.27
	Fp	21.3	17.0	14.2	12.2	10.7	9.5	8.5	7.7	7.1	6.6	6.1	5.7	5.3	5.0	4.7	4.5
	f _p	0.08	0.11	0.15	0.19	0.23	0.28	0.34	0.40	0.46	0.54	0.61	0.69	0.78	0.87	0.97	1.07