T130M-75L-930 - Positive - Narrow flange against support.

Dimensioning tables according to EN 1993-1-3.

End support width: = 60 mm.

Middle support width: = 160 mm.

Compare design load where safety factors must be included to table values (1.ULS).

Serviceability limit state safety factors = 1,0.

Self-weight of the sheet has been taken into account with factor 1,35.

Continuous uniform load in [kN/m^2].

1.Ultimate limit state (ULS; Q).

2.Serviceability limit state. Deflection limit f = L/150 (SLS; Q_{ch}).

3.Serviceability limit state. Deflection limit f = L/200 (SLS; Q_{ch}).

4.Serviceability limit state. Deflection limit f = L/250 (SLS; Q_{ch}).

5.Serviceability limit state. Deflection limit f = L/300 (SLS; Q_{ch}).

1-Span structure
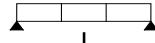
Thick [mm]	State	Span lenght L [m]																				
		4.00	4.25	4.50	4.75	5.00	5.25	5.50	5.75	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50	8.75	9.00
0.70	1. ULS	5.36	4.73	4.21	3.77	3.39	3.07	2.79	2.54	2.32	2.14	1.97	1.81	1.68	1.56	1.45	1.35	1.26	1.18	1.11	1.04	0.98
	2. L/150	4.06	3.37	2.82	2.39	2.03	1.75	1.51	1.31	1.14	1	0.88	0.77	0.68	0.61	0.54	0.48	0.43	0.39	0.35	0.31	0.28
	3. L/200	3.02	2.51	2.1	1.77	1.51	1.29	1.11	0.96	0.83	0.73	0.64	0.56	0.49	0.44	0.38	0.34	0.3	0.27	0.24	0.21	0.18
	4. L/250	2.4	1.99	1.66	1.4	1.19	1.01	0.86	0.74	0.65	0.56	0.49	0.43	0.38	0.33	0.29	0.25	0.23	0.2	0.17	0.15	0.13
	5. L/300	1.98	1.64	1.37	1.15	0.97	0.83	0.71	0.61	0.52	0.45	0.4	0.35	0.3	0.27	0.22	0.2	0.17	0.15	0.13	0.11	0.09
0.80	1. ULS	6.86	6.06	5.4	4.83	4.35	3.93	3.57	3.26	2.98	2.74	2.52	2.33	2.17	2.01	1.87	1.74	1.63	1.52	1.43	1.34	1.26
	2. L/150	4.57	3.8	3.18	2.69	2.29	1.97	1.7	1.48	1.29	1.12	0.99	0.88	0.77	0.69	0.61	0.54	0.48	0.43	0.39	0.35	0.31
	3. L/200	3.4	2.82	2.36	1.99	1.69	1.45	1.25	1.08	0.94	0.82	0.72	0.63	0.55	0.49	0.43	0.38	0.34	0.3	0.27	0.24	0.21
	4. L/250	2.7	2.24	1.87	1.58	1.34	1.14	0.98	0.85	0.73	0.63	0.55	0.48	0.42	0.37	0.32	0.28	0.25	0.22	0.2	0.17	0.15
	5. L/300	2.24	1.85	1.54	1.29	1.09	0.93	0.8	0.69	0.59	0.51	0.44	0.38	0.33	0.29	0.25	0.22	0.19	0.17	0.15	0.12	0.11
0.90	1. ULS	8.35	7.38	6.57	5.88	5.3	4.79	4.35	3.97	3.64	3.34	3.08	2.85	2.64	2.45	2.28	2.12	1.99	1.86	1.74	1.64	1.54
	2. L/150	5.08	4.22	3.53	2.99	2.55	2.18	1.89	1.64	1.43	1.25	1.1	0.97	0.86	0.76	0.68	0.6	0.54	0.48	0.43	0.38	0.34
	3. L/200	3.78	3.14	2.62	2.21	1.88	1.61	1.39	1.2	1.04	0.91	0.8	0.7	0.61	0.54	0.48	0.42	0.38	0.33	0.3	0.26	0.23
	4. L/250	3	2.49	2.08	1.75	1.48	1.27	1.09	0.94	0.8	0.7	0.61	0.53	0.46	0.41	0.36	0.31	0.28	0.24	0.22	0.19	0.16
	5. L/300	2.49	2.05	1.71	1.44	1.21	1.03	0.88	0.76	0.66	0.56	0.49	0.43	0.37	0.33	0.28	0.25	0.22	0.19	0.16	0.14	0.11
1.00	1. ULS	10.02	8.86	7.89	7.07	6.36	5.76	5.23	4.77	4.37	4.02	3.7	3.43	3.17	2.95	2.75	2.56	2.4	2.25	2.11	1.98	1.86
	2. L/150	5.74	4.76	3.99	3.37	2.88	2.47	2.13	1.85	1.61	1.41	1.24	1.1	0.97	0.86	0.77	0.68	0.61	0.54	0.49	0.43	0.39
	3. L/200	4.27	3.54	2.96	2.5	2.12	1.82	1.57	1.36	1.18	1.03	0.9	0.79	0.69	0.61	0.54	0.48	0.42	0.38	0.33	0.3	0.26
	4. L/250	3.39	2.81	2.35	1.98	1.68	1.43	1.23	1.06	0.92	0.8	0.69	0.6	0.53	0.47	0.4	0.36	0.31	0.27	0.24	0.21	0.18
	5. L/300	2.8	2.32	1.93	1.63	1.37	1.16	1	0.86	0.74	0.64	0.56	0.48	0.42	0.36	0.32	0.29	0.24	0.21	0.18	0.16	0.13
1.20	1. ULS	13.77	12.17	10.85	9.71	8.75	7.92	7.2	6.57	6.02	5.54	5.11	4.72	4.38	4.07	3.79	3.54	3.31	3.1	2.91	2.74	2.57
	2. L/150	7.07	5.87	4.92	4.16	3.54	3.04	2.63	2.28	1.99	1.74	1.54	1.35	1.2	1.07	0.94	0.84	0.76	0.68	0.6	0.54	0.48
	3. L/200	5.26	4.36	3.65	3.08	2.62	2.24	1.93	1.67	1.45	1.28	1.11	0.98	0.86	0.76	0.67	0.59	0.53	0.47	0.41	0.36	0.32
	4. L/250	4.18	3.46	2.89	2.44	2.07	1.77	1.52	1.31	1.13	0.99	0.86	0.74	0.65	0.57	0.5	0.45	0.39	0.34	0.3	0.26	0.23
	5. L/300	3.46	2.86	2.39	2.01	1.7	1.45	1.24	1.07	0.91	0.8	0.69	0.6	0.52	0.46	0.4	0.35	0.3	0.26	0.23	0.2	0.16
	1. ULS	20.19	17.86	15.91	14.25	12.85	11.62	10.58	9.65	8.85	8.14	7.51	6.95	6.45	5.99	5.59	5.22	4.88	4.58	4.3	4.05	3.81
	2. L/150	9.13	7.58	6.36	5.38	4.58	3.93	3.4	2.95	2.57	2.25	1.98	1.75	1.56	1.38	1.22	1.1	0.98	0.88	0.78	0.7	0.63

Thick [mm]	State	4.00	4.25	4.50	4.75	5.00	5.25	5.50	5.75	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50	8.75	9.00
1.50	3. L/200	6.8	5.64	4.72	3.98	3.39	2.9	2.5	2.16	1.88	1.64	1.44	1.26	1.12	0.99	0.87	0.77	0.69	0.61	0.54	0.48	0.43
	4. L/250	5.4	4.47	3.74	3.15	2.67	2.29	1.97	1.69	1.47	1.28	1.12	0.98	0.86	0.75	0.66	0.58	0.51	0.44	0.39	0.35	0.3
	5. L/300	4.47	3.7	3.09	2.6	2.2	1.88	1.6	1.38	1.19	1.03	0.89	0.78	0.68	0.6	0.52	0.45	0.39	0.34	0.3	0.26	0.23

2-Span structure
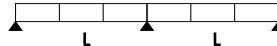
Thick [mm]	State	Span lenght L [m]																				
		4.00	4.25	4.50	4.75	5.00	5.25	5.50	5.75	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50	8.75	9.00
0.70	1. ULS	3.43	3.18	2.96	2.78	2.6	2.45	2.3	2.17	2.03	1.92	1.81	1.71	1.62	1.53	1.45	1.38	1.31	1.24	1.16	1.09	1.02
	2. L/150	10.01	8.33	7	5.94	5.08	4.38	3.8	3.31	2.9	2.56	2.27	2.01	1.8	1.61	1.44	1.3	1.17	1.06	0.96	0.87	0.8
	3. L/200	7.48	6.22	5.23	4.43	3.79	3.26	2.83	2.46	2.16	1.9	1.68	1.49	1.32	1.18	1.06	0.95	0.86	0.77	0.7	0.63	0.57
	4. L/250	5.97	4.96	4.17	3.53	3.01	2.59	2.25	1.95	1.71	1.5	1.33	1.17	1.04	0.93	0.83	0.74	0.66	0.6	0.54	0.49	0.44
	5. L/300	4.96	4.12	3.46	2.93	2.5	2.15	1.85	1.61	1.41	1.23	1.08	0.96	0.85	0.75	0.68	0.6	0.54	0.49	0.44	0.4	0.35
0.80	1. ULS	4.75	4.39	4.08	3.81	3.56	3.35	3.13	2.92	2.73	2.56	2.4	2.25	2.11	1.99	1.88	1.77	1.68	1.58	1.48	1.38	1.3
	2. L/150	11.36	9.45	7.95	6.74	5.76	4.97	4.31	3.75	3.29	2.9	2.57	2.28	2.04	1.82	1.64	1.47	1.34	1.21	1.09	1	0.91
	3. L/200	8.5	7.07	5.93	5.03	4.3	3.7	3.21	2.79	2.44	2.15	1.9	1.69	1.5	1.34	1.21	1.08	0.98	0.88	0.8	0.72	0.65
	4. L/250	6.78	5.63	4.73	4	3.42	2.94	2.55	2.22	1.94	1.7	1.5	1.33	1.19	1.06	0.94	0.84	0.76	0.68	0.62	0.56	0.5
	5. L/300	5.63	4.68	3.93	3.33	2.83	2.43	2.1	1.83	1.6	1.4	1.23	1.09	0.97	0.86	0.76	0.68	0.61	0.55	0.5	0.45	0.4
0.90	1. ULS	6.06	5.6	5.19	4.84	4.52	4.24	3.94	3.66	3.41	3.18	2.97	2.77	2.6	2.44	2.29	2.16	2.03	1.9	1.78	1.67	1.57
	2. L/150	12.71	10.57	8.89	7.54	6.45	5.55	4.82	4.2	3.68	3.25	2.87	2.55	2.28	2.04	1.83	1.65	1.49	1.34	1.22	1.11	1.01
	3. L/200	9.5	7.9	6.64	5.63	4.8	4.13	3.58	3.12	2.73	2.41	2.13	1.89	1.68	1.5	1.35	1.22	1.09	0.98	0.89	0.81	0.73
	4. L/250	7.58	6.3	5.29	4.48	3.83	3.29	2.84	2.48	2.17	1.91	1.68	1.49	1.32	1.18	1.05	0.95	0.85	0.76	0.68	0.62	0.56
	5. L/300	6.3	5.23	4.39	3.72	3.17	2.72	2.35	2.05	1.79	1.57	1.38	1.22	1.08	0.96	0.86	0.77	0.69	0.62	0.55	0.5	0.45
1.00	1. ULS	7.5	6.91	6.4	5.95	5.55	5.19	4.82	4.47	4.15	3.87	3.61	3.37	3.15	2.95	2.77	2.61	2.45	2.3	2.16	2.03	1.91
	2. L/150	14.2	11.82	9.93	8.43	7.21	6.21	5.39	4.7	4.11	3.62	3.21	2.86	2.54	2.28	2.05	1.84	1.66	1.51	1.37	1.25	1.14
	3. L/200	10.62	8.84	7.42	6.29	5.38	4.62	4	3.49	3.05	2.69	2.38	2.11	1.88	1.68	1.5	1.35	1.22	1.1	0.99	0.9	0.82
	4. L/250	8.47	7.04	5.91	5.01	4.27	3.68	3.18	2.77	2.42	2.13	1.88	1.66	1.48	1.32	1.18	1.06	0.95	0.86	0.76	0.69	0.63
	5. L/300	7.04	5.84	4.9	4.15	3.54	3.04	2.63	2.29	2	1.75	1.54	1.36	1.21	1.07	0.96	0.86	0.77	0.69	0.62	0.56	0.5
1.20	1. ULS	10.91	9.97	9.16	8.44	7.8	7.23	6.71	6.19	5.73	5.33	4.95	4.61	4.3	4.02	3.77	3.54	3.33	3.13	2.95	2.77	2.61
	2. L/150	17.26	14.37	12.08	10.26	8.77	7.55	6.55	5.71	5.01	4.41	3.91	3.47	3.1	2.77	2.49	2.24	2.02	1.83	1.66	1.52	1.39
	3. L/200	12.92	10.74	9.03	7.65	6.54	5.63	4.87	4.25	3.72	3.27	2.89	2.56	2.28	2.04	1.83	1.64	1.48	1.34	1.21	1.1	1
	4. L/250	10.3	8.56	7.19	6.09	5.2	4.47	3.87	3.37	2.95	2.59	2.28	2.02	1.8	1.61	1.44	1.29	1.15	1.04	0.94	0.85	0.76
	5. L/300	8.56	7.11	5.97	5.05	4.31	3.71	3.21	2.79	2.43	2.13	1.88	1.66	1.47	1.31	1.16	1.04	0.94	0.84	0.75	0.68	0.61
1.50	1. ULS	16.98	15.43	14.08	12.9	11.86	10.94	10.08	9.25	8.53	7.88	7.29	6.77	6.3	5.88	5.49	5.15	4.83	4.54	4.27	4.01	3.79
	2. L/150	22.29	18.56	15.6	13.23	11.32	9.76	8.46	7.38	6.47	5.7	5.04	4.49	4	3.58	3.22	2.9	2.62	2.37	2.15	1.96	1.78
	3. L/200	16.68	13.86	11.65	9.88	8.44	7.27	6.3	5.49	4.81	4.23	3.73	3.32	2.96	2.64	2.37	2.13	1.92	1.73	1.57	1.42	1.29
	4. L/250	13.29	11.06	9.28	7.86	6.72	5.78	5	4.35	3.81	3.35	2.95	2.62	2.33	2.08	1.86	1.67	1.5	1.35	1.22	1.1	1
	5. L/300	11.05	9.18	7.7	6.52	5.57	4.78	4.13	3.6	3.14	2.76	2.43	2.15	1.91	1.7	1.52	1.36	1.22	1.09	0.98	0.88	0.79

3-Span structure
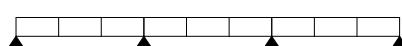
Thick [mm]	State	Span lenght L [m]																				
		4.00	4.25	4.50	4.75	5.00	5.25	5.50	5.75	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50	8.75	9.00
0.70	1. ULS	4.02	3.72	3.46	3.23	3.03	2.86	2.7	2.55	2.42	2.27	2.16	2.04	1.94	1.84	1.75	1.66	1.58	1.5	1.44	1.37	1.31
	2. L/150	7.89	6.57	5.52	4.68	4	3.45	2.99	2.6	2.28	2.01	1.77	1.57	1.4	1.25	1.12	1	0.9	0.82	0.74	0.67	0.61
	3. L/200	5.9	4.9	4.11	3.49	2.98	2.56	2.22	1.92	1.68	1.48	1.31	1.16	1.03	0.91	0.82	0.73	0.67	0.6	0.54	0.49	0.44
	4. L/250	4.7	3.91	3.28	2.78	2.36	2.03	1.76	1.52	1.33	1.17	1.03	0.91	0.8	0.72	0.64	0.56	0.51	0.45	0.41	0.37	0.33
	5. L/300	3.9	3.24	2.72	2.3	1.96	1.68	1.45	1.25	1.09	0.95	0.84	0.74	0.66	0.58	0.52	0.46	0.41	0.37	0.33	0.3	0.26

0.80	**1. ULS**	5.57	5.15	4.79	4.46	4.17	3.92	3.7	3.49	3.28	3.08	2.9	2.73	2.58	2.43	2.29	2.17	2.05	1.95	1.85	1.76	1.67
	2. L/150	8.93	7.43	6.24	5.29	4.52	3.89	3.37	2.94	2.58	2.27	2	1.78	1.58	1.41	1.27	1.15	1.03	0.93	0.84	0.76	0.69
	3. L/200	6.67	5.55	4.66	3.94	3.36	2.89	2.5	2.18	1.91	1.67	1.48	1.31	1.17	1.04	0.93	0.83	0.75	0.67	0.6	0.55	0.49
	4. L/250	5.32	4.41	3.7	3.14	2.67	2.3	1.98	1.72	1.51	1.32	1.16	1.03	0.91	0.81	0.72	0.65	0.58	0.51	0.46	0.42	0.38
	5. L/300	4.41	3.67	3.08	2.6	2.21	1.9	1.64	1.42	1.23	1.08	0.95	0.83	0.74	0.66	0.59	0.52	0.46	0.41	0.37	0.34	0.29
0.90	**1. ULS**	7.12	6.57	6.1	5.68	5.31	4.99	4.69	4.42	4.14	3.87	3.63	3.4	3.2	3	2.83	2.67	2.52	2.38	2.26	2.14	2.02
	2. L/150	9.96	8.28	6.96	5.9	5.04	4.35	3.76	3.28	2.87	2.53	2.23	1.98	1.76	1.58	1.41	1.28	1.15	1.03	0.94	0.85	0.77
	3. L/200	7.44	6.19	5.19	4.4	3.75	3.23	2.79	2.43	2.12	1.87	1.65	1.47	1.3	1.15	1.03	0.93	0.83	0.75	0.68	0.61	0.55
	4. L/250	5.93	4.93	4.13	3.5	2.98	2.56	2.21	1.92	1.68	1.47	1.3	1.15	1.01	0.9	0.8	0.71	0.64	0.57	0.52	0.46	0.41
	5. L/300	4.92	4.09	3.42	2.89	2.47	2.12	1.82	1.58	1.38	1.2	1.06	0.94	0.83	0.73	0.65	0.58	0.52	0.46	0.41	0.37	0.33
1.00	**1. ULS**	8.79	8.12	7.53	7.01	6.55	6.12	5.75	5.4	5.06	4.72	4.41	4.14	3.88	3.64	3.43	3.23	3.05	2.88	2.71	2.58	2.42
	2. L/150	11.19	9.31	7.82	6.63	5.67	4.88	4.22	3.68	3.23	2.84	2.51	2.23	1.99	1.77	1.59	1.43	1.29	1.16	1.06	0.95	0.87
	3. L/200	8.36	6.95	5.83	4.94	4.22	3.63	3.14	2.73	2.39	2.1	1.85	1.64	1.46	1.3	1.16	1.04	0.93	0.84	0.76	0.68	0.62
	4. L/250	6.66	5.53	4.64	3.93	3.35	2.88	2.48	2.16	1.88	1.66	1.46	1.29	1.14	1.01	0.91	0.81	0.72	0.64	0.58	0.52	0.47
	5. L/300	5.53	4.59	3.84	3.26	2.77	2.38	2.05	1.78	1.55	1.36	1.19	1.05	0.93	0.83	0.73	0.65	0.58	0.52	0.46	0.41	0.37
1.20	**1. ULS**	12.96	11.87	10.91	10.07	9.32	8.66	8.07	7.53	7.03	6.54	6.1	5.69	5.33	4.99	4.68	4.4	4.14	3.9	3.68	3.48	3.29
	2. L/150	13.69	11.38	9.56	8.11	6.93	5.97	5.17	4.51	3.95	3.47	3.07	2.73	2.43	2.17	1.95	1.75	1.58	1.43	1.3	1.18	1.06
	3. L/200	10.23	8.5	7.14	6.05	5.16	4.44	3.84	3.34	2.92	2.57	2.27	2.01	1.78	1.59	1.42	1.28	1.14	1.03	0.93	0.84	0.76
	4. L/250	8.15	6.77	5.68	4.81	4.1	3.52	3.04	2.64	2.31	2.03	1.79	1.58	1.4	1.25	1.11	0.99	0.89	0.79	0.71	0.64	0.58
	5. L/300	6.77	5.62	4.71	3.98	3.39	2.91	2.51	2.18	1.9	1.66	1.46	1.29	1.13	1.01	0.89	0.8	0.71	0.63	0.57	0.51	0.45
1.50	**1. ULS**	20.39	18.54	16.94	15.54	14.32	13.23	12.26	11.39	10.59	9.79	9.08	8.44	7.86	7.34	6.86	6.44	6.04	5.68	5.35	5.05	4.77
	2. L/150	17.67	14.7	12.35	10.48	8.95	7.71	6.68	5.82	5.1	4.49	3.97	3.53	3.14	2.81	2.52	2.26	2.04	1.84	1.67	1.52	1.38
	3. L/200	13.2	10.97	9.22	7.81	6.67	5.73	4.97	4.32	3.77	3.32	2.93	2.6	2.31	2.06	1.84	1.65	1.48	1.35	1.21	1.09	0.99
	4. L/250	10.53	8.74	7.33	6.21	5.3	4.55	3.93	3.42	2.98	2.62	2.31	2.05	1.81	1.61	1.44	1.28	1.15	1.03	0.93	0.83	0.75
	5. L/300	8.74	7.25	6.08	5.14	4.38	3.76	3.25	2.82	2.45	2.15	1.89	1.67	1.48	1.31	1.16	1.03	0.92	0.83	0.74	0.66	0.6