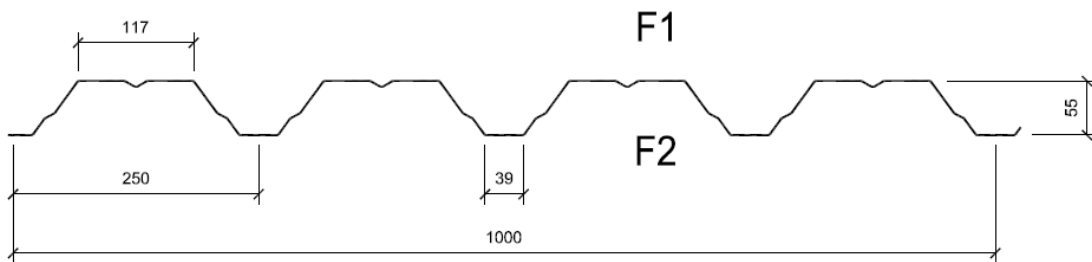


**TECHNICAL DATA SHEET
OF PROFILE
Trapeza[®] 55/250 T**

Trapeza® 55/250 T



Technical parameters:

Coil width:	1250 mm
Profile width:	1000 mm
Yield strength:	S320GD, S350GD according to EN 10346
Thickness:	0,60; 0,63; 0,70; 0,75; 0,80; 0,88, 1,00; 1,25 mm acc. to EN 10143
Durability/Coating quality:	ZM 60, ZM80, ZM100, ZM120, ZM175, ZM275 and Z100, 140, 200, 225, 275, 350 acc. to EN 10346
Organic coating:	Interieur (DU912, DU901), Hairplus, Hairultra, Hairflon, Keyron, Hairexcel, Sinea, (or acc. to Material guide), acc. to EN 10169
Max. length:	14 m
Min. length:	2 m

Tables of resistance of profiled sheeting ArcelorMittal

For all profiles, steel S320 is used. Material characteristics are as follows:

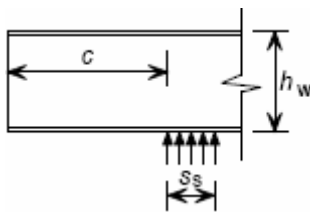
- yield strength $f_y = 320$ MPa
- proof strength $f_u = 390$ MPa
- modulus of elasticity $E = 210\,000$ MPa
- density 7850 kg/m³

The design thickness of the sheet given in the tables is the core thickness only. No coatings or paintings are included neither in the thickness nor in the calculated weight of the profiled sheeting. Minus tolerance in the sheet thickness is lower than 5 %.

The design resistances are calculated for uniformly loaded simply supported or continuous beams (where the spans are also uniform).

Ultimate limit state (ULS)

The design resistance according to the ultimate limit state is given by " q_{Ed} " which is calculated with respect to the bending resistance, shear resistance, local transverse forces and their interactions as defined in CSN EN 1993-1-3 and other referenced codes. The width of the end support s_s is 40 mm and 120 mm for the internal support respectively. In the tables, two different resistances are given according to the distance " c " (see figure below the paragraph) from the end support to the free end. One resistance " $q_{Ed} (c < 1,5h)$ " is for profiles which meets the minimal distance of the overhang " c " at least 40 mm. For the second resistance " $q_{Ed} (c \geq 1,5h)$ ", the distance at least $1.5 \times h_w$ (web height) clear from a free end is considered.



The real design load must be always smaller or at least equal to the resistance given in the tables. The maximal design resistances (load values) in the tables are related to a one-meter width of the profiled sheeting. Units used in the tables are kN/m². The self-weight of the sheeting must be included in the load.

Serviceability limit state (SLS)

The characteristic load " q_{Ek} " that meets the serviceability limit for deflection of $L/200$ (where L means the span) is given in the table. In view of the fact that the behavior in the SLS is elastic, characteristic load for different limits may be extrapolated from the table. To fulfil the condition of the limit, the real characteristic load must be lower or at least equal to the value given by the tables.



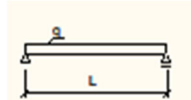
Used design codes:

ČSN EN 1993-1-1: Navrhování ocelových konstrukcí, Část 1-1: Obecná pravidla a pravidla pro pozemní stavby, ČNI, 2006. (Design of steel structures, Part 1-1: General rules and rules for buildings)

ČSN EN 1993-1-3: Navrhování ocelových konstrukcí, Část 1-3: Obecná pravidla – Doplnující pravidla pro tenkostěnné za studena tvarované prvky a plošné profily, ČNI, 2008. (Design of steel structures, Part 1-3: General rules - Supplementary rules for cold-formed members and sheeting)

ČSN EN 1993-1-5: Navrhování ocelových konstrukcí, Část 1-5: Boulení stěn, ČNI, 2008. (Design of steel structures, Part 1-5: Plated structural elements)

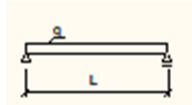
Single span – positive position



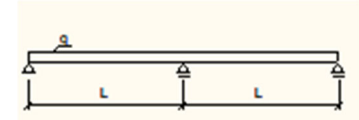
Trapeza® 55/250 T		Span [m]															
t [mm]	S320	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00	4,25	4,50	4,75	5,00
0,6	q _{Ed} (c<1.5h)	6,732	5,610	4,808	4,207	3,654	2,960	2,446	2,055	1,751	1,510	1,315	1,156	1,024	0,914	0,820	0,740
	q _{Ed} (c≥1.5h)	11,839	8,222	6,041	4,625	3,654	2,960	2,446	2,055	1,751	1,510	1,315	1,156	1,024	0,914	0,820	0,740
	q _{Ed} (L/200)	8,470	4,901	3,087	2,068	1,452	1,059	0,795	0,613	0,482	0,386	0,314	0,258	0,215	0,182	0,154	0,132
0,63	q _{Ed} (c<1.5h)	7,509	6,257	5,363	4,693	4,027	3,262	2,696	2,265	1,930	1,664	1,450	1,274	1,129	1,007	0,904	0,815
	q _{Ed} (c≥1.5h)	13,047	9,060	6,657	5,096	4,027	3,262	2,696	2,265	1,930	1,664	1,450	1,274	1,129	1,007	0,904	0,815
	q _{Ed} (L/200)	9,165	5,304	3,340	2,238	1,572	1,146	0,861	0,663	0,521	0,418	0,339	0,280	0,233	0,196	0,167	0,143
0,7	q _{Ed} (c<1.5h)	9,472	7,893	6,766	5,818	4,597	3,724	3,077	2,586	2,203	1,900	1,655	1,455	1,288	1,149	1,031	0,931
	q _{Ed} (c≥1.5h)	14,894	10,343	7,599	5,818	4,597	3,724	3,077	2,586	2,203	1,900	1,655	1,455	1,288	1,149	1,031	0,931
	q _{Ed} (L/200)	10,823	6,263	3,944	2,642	1,856	1,353	1,016	0,783	0,616	0,493	0,401	0,330	0,275	0,232	0,197	0,169
0,75	q _{Ed} (c<1.5h)	11,001	9,167	7,858	6,311	4,986	4,039	3,338	2,805	2,390	2,061	1,795	1,578	1,397	1,247	1,119	1,010
	q _{Ed} (c≥1.5h)	16,155	11,219	8,242	6,311	4,986	4,039	3,338	2,805	2,390	2,061	1,795	1,578	1,397	1,247	1,119	1,010
	q _{Ed} (L/200)	11,884	6,877	4,331	2,901	2,038	1,486	1,116	0,860	0,676	0,541	0,440	0,363	0,302	0,255	0,217	0,186
0,8	q _{Ed} (c<1.5h)	12,635	10,529	8,889	6,806	5,377	4,356	3,600	3,025	2,577	2,222	1,936	1,701	1,507	1,344	1,207	1,089
	q _{Ed} (c≥1.5h)	17,423	12,099	8,889	6,806	5,377	4,356	3,600	3,025	2,577	2,222	1,936	1,701	1,507	1,344	1,207	1,089
	q _{Ed} (L/200)	12,966	7,503	4,725	3,165	2,223	1,621	1,218	0,938	0,738	0,591	0,480	0,396	0,330	0,278	0,236	0,203
0,88	q _{Ed} (c<1.5h)	15,464	12,886	9,930	7,603	6,007	4,866	4,021	3,379	2,879	2,483	2,163	1,901	1,684	1,502	1,348	1,216
	q _{Ed} (c≥1.5h)	19,463	13,516	9,930	7,603	6,007	4,866	4,021	3,379	2,879	2,483	2,163	1,901	1,684	1,502	1,348	1,216
	q _{Ed} (L/200)	14,734	8,526	5,369	3,597	2,526	1,842	1,384	1,066	0,838	0,671	0,546	0,450	0,375	0,316	0,269	0,230
1	q _{Ed} (c<1.5h)	20,197	15,655	11,502	8,806	6,958	5,636	4,658	3,914	3,335	2,875	2,505	2,201	1,950	1,739	1,561	1,409
	q _{Ed} (c≥1.5h)	22,543	15,655	11,502	8,806	6,958	5,636	4,658	3,914	3,335	2,875	2,505	2,201	1,950	1,739	1,561	1,409
	q _{Ed} (L/200)	17,456	10,102	6,362	4,262	2,993	2,182	1,639	1,263	0,993	0,795	0,647	0,533	0,444	0,374	0,318	0,273
1,25	q _{Ed} (c<1.5h)	29,001	20,139	14,796	11,328	8,951	7,250	5,992	5,035	4,290	3,699	3,222	2,832	2,509	2,238	2,008	1,813
	q _{Ed} (c≥1.5h)	29,001	20,139	14,796	11,328	8,951	7,250	5,992	5,035	4,290	3,699	3,222	2,832	2,509	2,238	2,008	1,813
	q _{Ed} (L/200)	23,347	13,511	8,508	5,700	4,003	2,918	2,193	1,689	1,328	1,064	0,865	0,712	0,594	0,500	0,425	0,365



Single span – negative position



Trapeza® 55/250 T		Span [m]															
t [mm]	S320	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00	4,25	4,50	4,75	5,00
0,6	q _{Ed} (c<1.5h)	5,567	4,639	3,976	3,479	3,093	2,695	2,227	1,871	1,594	1,375	1,198	1,053	0,932	0,832	0,746	0,674
	q _{Ed} (c≥1.5h)	10,778	7,485	5,499	4,210	3,327	2,695	2,227	1,871	1,594	1,375	1,198	1,053	0,932	0,832	0,746	0,674
	q _{Ed} (L/200)	9,919	5,740	3,615	2,422	1,701	1,240	0,932	0,718	0,564	0,452	0,367	0,303	0,252	0,213	0,181	0,155
0,63	q _{Ed} (c<1.5h)	6,175	5,145	4,410	3,859	3,430	2,899	2,396	2,013	1,715	1,479	1,288	1,132	1,003	0,895	0,803	0,725
	q _{Ed} (c≥1.5h)	11,595	8,052	5,916	4,529	3,579	2,899	2,396	2,013	1,715	1,479	1,288	1,132	1,003	0,895	0,803	0,725
	q _{Ed} (L/200)	10,634	6,154	3,875	2,596	1,823	1,329	0,999	0,769	0,605	0,484	0,394	0,325	0,271	0,228	0,194	0,166
0,7	q _{Ed} (c<1.5h)	7,725	6,437	5,518	4,828	4,183	3,388	2,800	2,353	2,005	1,729	1,506	1,323	1,172	1,046	0,939	0,847
	q _{Ed} (c≥1.5h)	13,552	9,411	6,914	5,294	4,183	3,388	2,800	2,353	2,005	1,729	1,506	1,323	1,172	1,046	0,939	0,847
	q _{Ed} (L/200)	12,338	7,140	4,496	3,012	2,116	1,542	1,159	0,893	0,702	0,562	0,457	0,377	0,314	0,264	0,225	0,193
0,75	q _{Ed} (c<1.5h)	8,949	7,458	6,392	5,593	4,627	3,747	3,097	2,602	2,217	1,912	1,666	1,464	1,297	1,157	1,038	0,937
	q _{Ed} (c≥1.5h)	14,990	10,410	7,648	5,855	4,627	3,747	3,097	2,602	2,217	1,912	1,666	1,464	1,297	1,157	1,038	0,937
	q _{Ed} (L/200)	13,582	7,860	4,950	3,316	2,329	1,698	1,276	0,983	0,773	0,619	0,503	0,414	0,346	0,291	0,248	0,212
0,8	q _{Ed} (c<1.5h)	10,276	8,563	7,340	6,422	5,079	4,114	3,400	2,857	2,434	2,099	1,829	1,607	1,424	1,270	1,140	1,029
	q _{Ed} (c≥1.5h)	16,457	11,428	8,396	6,429	5,079	4,114	3,400	2,857	2,434	2,099	1,829	1,607	1,424	1,270	1,140	1,029
	q _{Ed} (L/200)	14,845	8,591	5,410	3,624	2,545	1,856	1,394	1,074	0,845	0,676	0,550	0,453	0,378	0,318	0,271	0,232
0,88	q _{Ed} (c<1.5h)	12,621	10,517	9,015	7,366	5,820	4,714	3,896	3,274	2,789	2,405	2,095	1,841	1,631	1,455	1,306	1,179
	q _{Ed} (c≥1.5h)	18,857	13,095	9,621	7,366	5,820	4,714	3,896	3,274	2,789	2,405	2,095	1,841	1,631	1,455	1,306	1,179
	q _{Ed} (L/200)	16,901	9,781	6,159	4,126	2,898	2,113	1,587	1,223	0,962	0,770	0,626	0,516	0,430	0,362	0,308	0,264
1	q _{Ed} (c<1.5h)	16,688	13,907	11,506	8,809	6,960	5,638	4,659	3,915	3,336	2,876	2,506	2,202	1,951	1,740	1,562	1,409
	q _{Ed} (c≥1.5h)	22,551	15,661	11,506	8,809	6,960	5,638	4,659	3,915	3,336	2,876	2,506	2,202	1,951	1,740	1,562	1,409
	q _{Ed} (L/200)	20,046	11,601	7,305	4,894	3,437	2,506	1,883	1,450	1,141	0,913	0,742	0,612	0,510	0,430	0,365	0,313
1,25	q _{Ed} (c<1.5h)	27,583	21,044	15,461	11,837	9,353	7,576	6,261	5,261	4,483	3,865	3,367	2,959	2,621	2,338	2,099	1,894
	q _{Ed} (c≥1.5h)	30,303	21,044	15,461	11,837	9,353	7,576	6,261	5,261	4,483	3,865	3,367	2,959	2,621	2,338	2,099	1,894
	q _{Ed} (L/200)	26,637	15,415	9,707	6,503	4,567	3,330	2,502	1,927	1,516	1,213	0,987	0,813	0,678	0,571	0,485	0,416

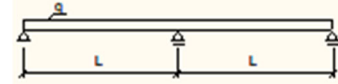


Double span – positive position

Trapeza® 55/250 T		Span [m]															
t [mm]	S320	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00	4,25	4,50	4,75	5,00
0,6	q _{Re} (c<1.5h)	6,359	4,842	3,821	3,097	2,565	2,160	1,845	1,595	1,394	1,228	1,090	0,975	0,877	0,793	0,721	0,658
	q _{Re} (c≥1.5h)	6,359	4,842	3,821	3,097	2,565	2,160	1,845	1,595	1,394	1,228	1,090	0,975	0,877	0,793	0,721	0,658
	q _{Re} (L/200)	20,953	12,126	7,636	5,116	3,593	2,619	1,968	1,516	1,192	0,955	0,776	0,639	0,533	0,449	0,382	0,327
0,63	q _{Re} (c<1.5h)	6,953	5,287	4,167	3,374	2,791	2,349	2,006	1,733	1,513	1,333	1,183	1,057	0,951	0,859	0,781	0,713
	q _{Re} (c≥1.5h)	6,953	5,287	4,167	3,374	2,791	2,349	2,006	1,733	1,513	1,333	1,183	1,057	0,951	0,859	0,781	0,713
	q _{Re} (L/200)	22,674	13,121	8,263	5,536	3,888	2,834	2,129	1,640	1,290	1,033	0,840	0,692	0,577	0,486	0,413	0,354
0,7	q _{Re} (c<1.5h)	8,401	6,369	5,007	4,047	3,342	2,808	2,394	2,066	1,802	1,585	1,406	1,256	1,128	1,019	0,926	0,844
	q _{Re} (c≥1.5h)	8,401	6,369	5,007	4,047	3,342	2,808	2,394	2,066	1,802	1,585	1,406	1,256	1,128	1,019	0,926	0,844
	q _{Re} (L/200)	26,775	15,495	9,758	6,537	4,591	3,347	2,515	1,937	1,523	1,220	0,992	0,817	0,681	0,574	0,488	0,418
0,75	q _{Re} (c<1.5h)	9,486	7,178	5,635	4,547	3,751	3,149	2,682	2,313	2,016	1,773	1,571	1,402	1,260	1,138	1,033	0,937
	q _{Re} (c≥1.5h)	9,486	7,178	5,635	4,547	3,751	3,149	2,682	2,313	2,016	1,773	1,571	1,402	1,260	1,138	1,033	0,937
	q _{Re} (L/200)	29,401	17,014	10,715	7,178	5,041	3,675	2,761	2,127	1,673	1,339	1,089	0,897	0,748	0,630	0,536	0,459
0,8	q _{Re} (c<1.5h)	10,609	8,015	6,282	5,064	4,173	3,500	2,979	2,567	2,236	1,965	1,741	1,553	1,394	1,259	1,140	1,029
	q _{Re} (c≥1.5h)	10,609	8,015	6,282	5,064	4,173	3,500	2,979	2,567	2,236	1,965	1,741	1,553	1,394	1,259	1,140	1,029
	q _{Re} (L/200)	32,076	18,563	11,690	7,831	5,500	4,010	3,012	2,320	1,825	1,461	1,188	0,979	0,816	0,688	0,585	0,501
0,88	q _{Re} (c<1.5h)	12,482	9,406	7,358	5,920	4,871	4,080	3,469	2,987	2,599	2,282	2,021	1,802	1,617	1,455	1,306	1,179
	q _{Re} (c≥1.5h)	12,482	9,406	7,358	5,920	4,871	4,080	3,469	2,987	2,599	2,282	2,021	1,802	1,617	1,455	1,306	1,179
	q _{Re} (L/200)	36,451	21,094	13,284	8,899	6,250	4,556	3,423	2,637	2,074	1,660	1,350	1,112	0,927	0,781	0,664	0,570
1	q _{Re} (c<1.5h)	15,446	11,600	9,049	7,265	5,966	4,989	4,236	3,642	3,166	2,777	2,457	2,189	1,951	1,740	1,562	1,409
	q _{Re} (c≥1.5h)	15,446	11,600	9,049	7,265	5,966	4,989	4,236	3,642	3,166	2,777	2,457	2,189	1,951	1,740	1,562	1,409
	q _{Re} (L/200)	43,186	24,992	15,738	10,543	7,405	5,398	4,056	3,124	2,457	1,967	1,599	1,318	1,099	0,926	0,787	0,675
1,25	q _{Re} (c<1.5h)	22,031	16,446	12,766	10,207	8,353	6,965	5,898	5,060	4,389	3,844	3,367	2,959	2,621	2,338	2,099	1,894
	q _{Re} (c≥1.5h)	22,031	16,446	12,766	10,207	8,353	6,965	5,898	5,060	4,389	3,844	3,367	2,959	2,621	2,338	2,099	1,894
	q _{Re} (L/200)	57,759	33,425	21,049	14,101	9,904	7,220	5,424	4,178	3,286	2,631	2,139	1,763	1,470	1,238	1,053	0,902



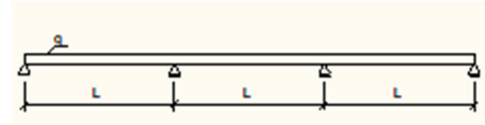
Double span – negative position



Trapeza® 55/250 T		Span [m]															
t [mm]	S320	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00	4,25	4,50	4,75	5,00
0,6	q _{rel} (c<1.5h)	5,953	4,592	3,663	2,997	2,502	2,123	1,825	1,587	1,393	1,233	1,100	0,987	0,891	0,808	0,737	0,674
	q _{rel} (c≥1.5h)	5,953	4,592	3,663	2,997	2,502	2,123	1,825	1,587	1,393	1,233	1,100	0,987	0,891	0,808	0,737	0,674
	q _{rel} (L/200)	24,539	14,201	8,943	5,991	4,208	3,067	2,305	1,775	1,396	1,118	0,909	0,749	0,624	0,526	0,447	0,383
0,63	q _{rel} (c<1.5h)	6,565	5,064	4,039	3,305	2,759	2,341	2,012	1,750	1,536	1,360	1,212	1,088	0,982	0,891	0,812	0,743
	q _{rel} (c≥1.5h)	6,565	5,064	4,039	3,305	2,759	2,341	2,012	1,750	1,536	1,360	1,212	1,088	0,982	0,891	0,812	0,743
	q _{rel} (L/200)	26,309	15,225	9,588	6,423	4,511	3,289	2,471	1,903	1,497	1,198	0,974	0,803	0,669	0,564	0,479	0,411
0,7	q _{rel} (c<1.5h)	7,857	6,038	4,801	3,918	3,263	2,763	2,371	2,058	1,804	1,595	1,420	1,273	1,148	1,041	0,948	0,867
	q _{rel} (c≥1.5h)	7,857	6,038	4,801	3,918	3,263	2,763	2,371	2,058	1,804	1,595	1,420	1,273	1,148	1,041	0,948	0,867
	q _{rel} (L/200)	30,525	17,665	11,124	7,452	5,234	3,816	2,867	2,208	1,737	1,391	1,131	0,932	0,777	0,654	0,556	0,477
0,75	q _{rel} (c<1.5h)	8,810	6,753	5,358	4,364	3,628	3,067	2,629	2,279	1,996	1,762	1,568	1,405	1,266	1,147	1,044	0,954
	q _{rel} (c≥1.5h)	8,810	6,753	5,358	4,364	3,628	3,067	2,629	2,279	1,996	1,762	1,568	1,405	1,266	1,147	1,044	0,954
	q _{rel} (L/200)	33,602	19,445	12,246	8,204	5,762	4,200	3,156	2,431	1,912	1,531	1,245	1,025	0,855	0,720	0,612	0,525
0,8	q _{rel} (c<1.5h)	9,800	7,493	5,932	4,823	4,003	3,379	2,893	2,505	2,191	1,934	1,719	1,539	1,386	1,255	1,141	1,043
	q _{rel} (c≥1.5h)	9,800	7,493	5,932	4,823	4,003	3,379	2,893	2,505	2,191	1,934	1,719	1,539	1,386	1,255	1,141	1,043
	q _{rel} (L/200)	36,727	21,254	13,384	8,966	6,297	4,591	3,449	2,657	2,090	1,673	1,360	1,121	0,934	0,787	0,669	0,574
0,88	q _{rel} (c<1.5h)	11,457	8,726	6,887	5,583	4,623	3,895	3,327	2,877	2,513	2,215	1,967	1,759	1,582	1,431	1,300	1,187
	q _{rel} (c≥1.5h)	11,457	8,726	6,887	5,583	4,623	3,895	3,327	2,877	2,513	2,215	1,967	1,759	1,582	1,431	1,300	1,187
	q _{rel} (L/200)	41,812	24,197	15,238	10,208	7,169	5,226	3,927	3,025	2,379	1,905	1,549	1,276	1,064	0,896	0,762	0,653
1	q _{rel} (c<1.5h)	14,103	10,683	8,393	6,779	5,595	4,699	4,005	3,455	3,012	2,650	2,349	2,098	1,884	1,702	1,545	1,409
	q _{rel} (c≥1.5h)	14,103	10,683	8,393	6,779	5,595	4,699	4,005	3,455	3,012	2,650	2,349	2,098	1,884	1,702	1,545	1,409
	q _{rel} (L/200)	49,592	28,699	18,073	12,107	8,503	6,199	4,657	3,587	2,822	2,259	1,837	1,513	1,262	1,063	0,904	0,775
1,25	q _{rel} (c<1.5h)	20,179	15,131	11,789	9,454	7,756	6,482	5,499	4,725	4,105	3,600	3,183	2,832	2,509	2,238	2,008	1,813
	q _{rel} (c≥1.5h)	20,179	15,131	11,789	9,454	7,756	6,482	5,499	4,725	4,105	3,600	3,183	2,832	2,509	2,238	2,008	1,813
	q _{rel} (L/200)	65,898	38,135	24,015	16,088	11,299	8,237	6,189	4,767	3,749	3,002	2,441	2,011	1,677	1,412	1,201	1,030



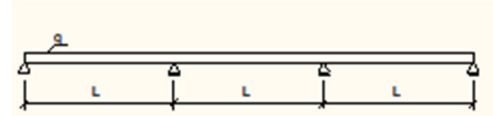
Triple span – positive position



Trapeza® 55/250 T		Span [m]															
t [mm]	S320	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00	4,25	4,50	4,75	5,00
0,6	q _{rel} (c<1.5h)	7,550	5,774	4,573	3,719	3,087	2,607	2,231	1,933	1,691	1,492	1,327	1,188	1,070	0,968	0,881	0,805
	q _{rel} (c≥1.5h)	7,550	5,774	4,573	3,719	3,087	2,607	2,231	1,933	1,691	1,492	1,327	1,188	1,070	0,968	0,881	0,805
	q _{rel} (L/200)	15,494	8,967	5,647	3,783	2,657	1,937	1,455	1,121	0,882	0,706	0,574	0,473	0,394	0,332	0,282	0,242
0,63	q _{rel} (c<1.5h)	8,261	6,309	4,991	4,054	3,363	2,837	2,427	2,101	1,837	1,620	1,440	1,289	1,160	1,050	0,955	0,872
	q _{rel} (c≥1.5h)	8,261	6,309	4,991	4,054	3,363	2,837	2,427	2,101	1,837	1,620	1,440	1,289	1,160	1,050	0,955	0,872
	q _{rel} (L/200)	16,767	9,703	6,110	4,093	2,875	2,096	1,575	1,213	0,954	0,764	0,621	0,512	0,427	0,359	0,306	0,262
0,7	q _{rel} (c<1.5h)	9,997	7,612	6,007	4,869	4,031	3,396	2,901	2,508	2,190	1,930	1,714	1,532	1,378	1,247	1,133	1,034
	q _{rel} (c≥1.5h)	9,997	7,612	6,007	4,869	4,031	3,396	2,901	2,508	2,190	1,930	1,714	1,532	1,378	1,247	1,133	1,034
	q _{rel} (L/200)	19,799	11,458	7,216	4,834	3,395	2,475	1,859	1,432	1,126	0,902	0,733	0,604	0,504	0,424	0,361	0,309
0,75	q _{rel} (c<1.5h)	11,299	8,587	6,765	5,477	4,529	3,811	3,253	2,810	2,453	2,160	1,917	1,713	1,540	1,392	1,265	1,154
	q _{rel} (c≥1.5h)	11,299	8,587	6,765	5,477	4,529	3,811	3,253	2,810	2,453	2,160	1,917	1,713	1,540	1,392	1,265	1,154
	q _{rel} (L/200)	21,741	12,582	7,923	5,308	3,728	2,718	2,042	1,573	1,237	0,990	0,805	0,663	0,553	0,466	0,396	0,340
0,8	q _{rel} (c<1.5h)	12,649	9,597	7,550	6,104	5,043	4,239	3,615	3,121	2,722	2,396	2,125	1,898	1,706	1,542	1,400	1,277
	q _{rel} (c≥1.5h)	12,649	9,597	7,550	6,104	5,043	4,239	3,615	3,121	2,722	2,396	2,125	1,898	1,706	1,542	1,400	1,277
	q _{rel} (L/200)	23,720	13,727	8,644	5,791	4,067	2,965	2,228	1,716	1,350	1,081	0,879	0,724	0,603	0,508	0,432	0,371
0,88	q _{rel} (c<1.5h)	14,902	11,278	8,853	7,145	5,894	4,948	4,215	3,635	3,168	2,786	2,469	2,204	1,980	1,788	1,623	1,473
	q _{rel} (c≥1.5h)	14,902	11,278	8,853	7,145	5,894	4,948	4,215	3,635	3,168	2,786	2,469	2,204	1,980	1,788	1,623	1,473
	q _{rel} (L/200)	26,954	15,599	9,823	6,581	4,622	3,369	2,531	1,950	1,534	1,228	0,998	0,823	0,686	0,578	0,491	0,421
1	q _{rel} (c<1.5h)	18,473	13,933	10,907	8,783	7,230	6,060	5,154	4,439	3,864	3,394	3,006	2,681	2,406	2,171	1,952	1,762
	q _{rel} (c≥1.5h)	18,473	13,933	10,907	8,783	7,230	6,060	5,154	4,439	3,864	3,394	3,006	2,681	2,406	2,171	1,952	1,762
	q _{rel} (L/200)	31,935	18,481	11,638	7,797	5,476	3,992	2,999	2,310	1,817	1,455	1,183	0,975	0,813	0,684	0,582	0,499
1,25	q _{rel} (c<1.5h)	26,433	19,815	15,434	12,375	10,151	8,481	7,195	6,182	5,370	4,709	4,163	3,699	3,277	2,923	2,623	2,367
	q _{rel} (c≥1.5h)	26,433	19,815	15,434	12,375	10,151	8,481	7,195	6,182	5,370	4,709	4,163	3,699	3,277	2,923	2,623	2,367
	q _{rel} (L/200)	42,711	24,717	15,565	10,428	7,324	5,339	4,011	3,090	2,430	1,946	1,582	1,303	1,087	0,915	0,778	0,667



Triple span – negative position



Trapeza® 55/250 T		Span [m]															
t [mm]	S320	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00	4,25	4,50	4,75	5,00
0,6	q _{Ed} (c<1.5h)	6,959	5,439	4,355	3,575	2,992	2,545	2,193	1,911	1,680	1,490	1,331	1,196	1,081	0,982	0,896	0,821
	q _{Ed} (c≥1.5h)	7,022	5,439	4,355	3,575	2,992	2,545	2,193	1,911	1,680	1,490	1,331	1,196	1,081	0,982	0,896	0,821
	q _{Ek} (L/200)	18,146	10,501	6,613	4,430	3,111	2,268	1,704	1,313	1,032	0,827	0,672	0,554	0,462	0,389	0,331	0,284
0,63	q _{Ed} (c<1.5h)	7,718	5,998	4,802	3,942	3,300	2,806	2,418	2,106	1,853	1,643	1,467	1,318	1,191	1,082	0,988	0,905
	q _{Ed} (c≥1.5h)	7,744	5,998	4,802	3,942	3,300	2,806	2,418	2,106	1,853	1,643	1,467	1,318	1,191	1,082	0,988	0,905
	q _{Ek} (L/200)	19,455	11,258	7,090	4,750	3,336	2,432	1,827	1,407	1,107	0,886	0,721	0,594	0,495	0,417	0,355	0,304
0,7	q _{Ed} (c<1.5h)	9,284	7,165	5,719	4,682	3,910	3,318	2,854	2,482	2,180	1,930	1,721	1,545	1,395	1,266	1,154	1,057
	q _{Ed} (c≥1.5h)	9,284	7,165	5,719	4,682	3,910	3,318	2,854	2,482	2,180	1,930	1,721	1,545	1,395	1,266	1,154	1,057
	q _{Ek} (L/200)	22,572	13,063	8,226	5,511	3,870	2,822	2,120	1,633	1,284	1,028	0,836	0,689	0,574	0,484	0,411	0,353
0,75	q _{Ed} (c<1.5h)	10,425	8,025	6,391	5,222	4,353	3,689	3,168	2,752	2,414	2,136	1,903	1,707	1,540	1,396	1,272	1,164
	q _{Ed} (c≥1.5h)	10,425	8,025	6,391	5,222	4,353	3,689	3,168	2,752	2,414	2,136	1,903	1,707	1,540	1,396	1,272	1,164
	q _{Ek} (L/200)	24,848	14,379	9,055	6,066	4,261	3,106	2,334	1,797	1,414	1,132	0,920	0,758	0,632	0,533	0,453	0,388
0,8	q _{Ed} (c<1.5h)	11,612	8,916	7,085	5,778	4,810	4,070	3,491	3,029	2,654	2,346	2,089	1,872	1,688	1,529	1,393	1,273
	q _{Ed} (c≥1.5h)	11,612	8,916	7,085	5,778	4,810	4,070	3,491	3,029	2,654	2,346	2,089	1,872	1,688	1,529	1,393	1,273
	q _{Ek} (L/200)	27,158	15,717	9,897	6,630	4,657	3,395	2,551	1,965	1,545	1,237	1,006	0,829	0,691	0,582	0,495	0,424
0,88	q _{Ed} (c<1.5h)	13,602	10,404	8,241	6,703	5,565	4,699	4,023	3,485	3,049	2,691	2,393	2,142	1,929	1,747	1,589	1,452
	q _{Ed} (c≥1.5h)	13,602	10,404	8,241	6,703	5,565	4,699	4,023	3,485	3,049	2,691	2,393	2,142	1,929	1,747	1,589	1,452
	q _{Ek} (L/200)	30,919	17,893	11,268	7,549	5,302	3,865	2,904	2,237	1,759	1,408	1,145	0,944	0,787	0,663	0,563	0,483
1	q _{Ed} (c<1.5h)	16,790	12,774	10,072	8,160	6,753	5,685	4,855	4,196	3,664	3,227	2,865	2,561	2,303	2,083	1,893	1,727
	q _{Ed} (c≥1.5h)	16,790	12,774	10,072	8,160	6,753	5,685	4,855	4,196	3,664	3,227	2,865	2,561	2,303	2,083	1,893	1,727
	q _{Ek} (L/200)	36,672	21,222	13,364	8,953	6,288	4,584	3,444	2,653	2,086	1,671	1,358	1,119	0,933	0,786	0,668	0,573
1,25	q _{Ed} (c<1.5h)	24,153	18,188	14,220	11,438	9,407	7,878	6,696	5,763	5,014	4,402	3,897	3,474	3,117	2,797	2,510	2,266
	q _{Ed} (c≥1.5h)	24,153	18,188	14,220	11,438	9,407	7,878	6,696	5,763	5,014	4,402	3,897	3,474	3,117	2,797	2,510	2,266
	q _{Ek} (L/200)	48,730	28,200	17,759	11,897	8,356	6,091	4,576	3,525	2,773	2,220	1,805	1,487	1,240	1,044	0,888	0,761

Explanatory note:

q _{Ed} (c<1.5h)	design resistance [kN/m ²]	end support width at least 40 mm, end support at distance at least 40 mm clear from a free end internal support width at least 120 mm
q _{Ed} (c≥1.5h)	design resistance [kN/m ²]	end support width at least 40 mm, end support at distance at least 1.5 x h _w (web height) clear from a free end internal support width at least 120 mm
q _{Ek} (δ≤L/200)	characteristics load that meets the serviceability limit for deflection of L/200 [kN/m ²]	