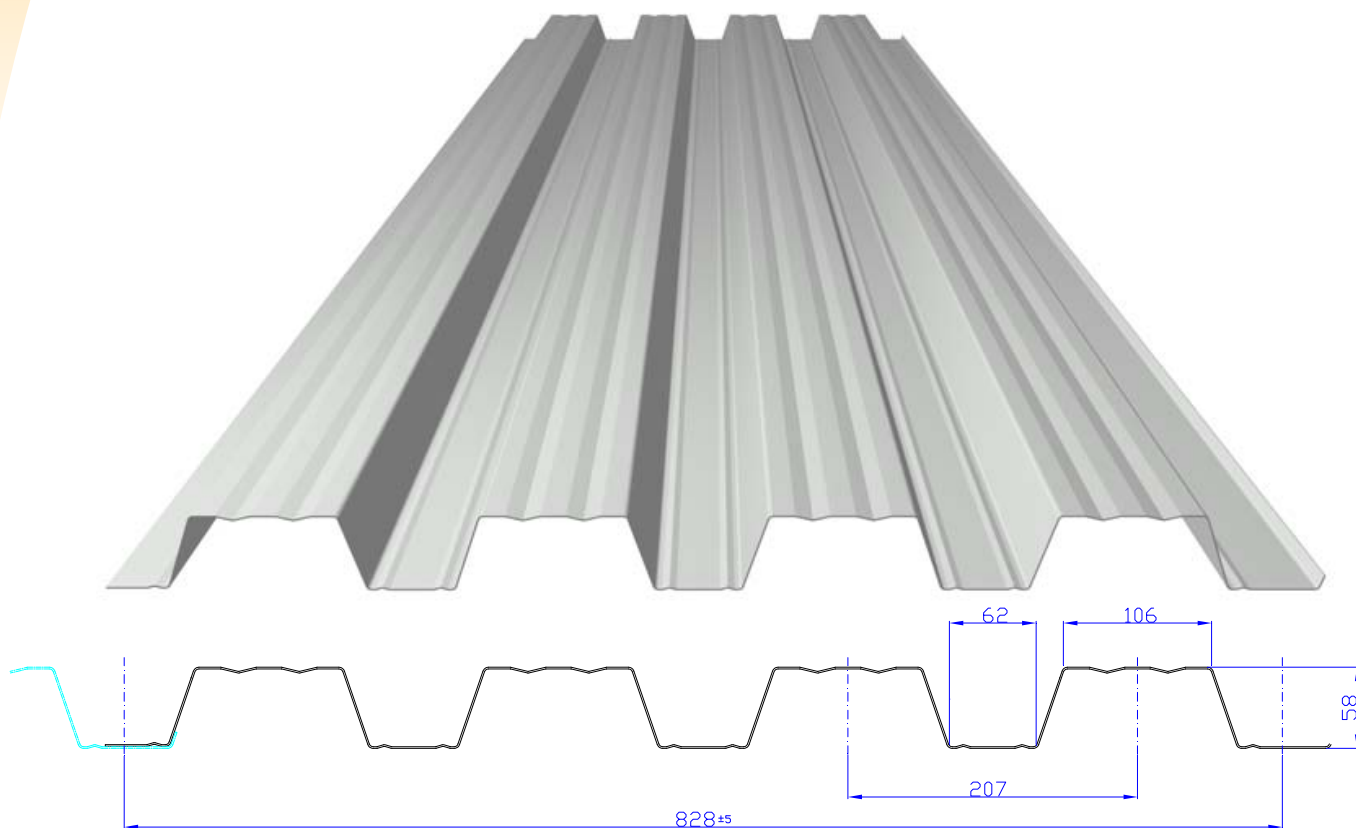




TC60 Trapezoidal Sheet for Long-Span Roof Covering



Applications

The trapezoidal cold-formed sheet TC60 without lateral side ribs is appropriate for top-covering surfaces with long span among the upholdings because of the reinforcing along-run ribs. The sheet can be applied as single, as single with insulation and film on top (inverted insulation), or double with intermediate insulation (assembling on worksite).

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Specifications

Steel sheets properties:

Steel S350GD ($f_{yd} = 350 \text{ N/mm}^2$, $f_u = 420 \text{ N/mm}^2$ EN 10147/91 A1/95)
hot galvanised according to Z275. Tolerance EN 10143.

Steel S350GD hot galvanised according to Z200, pre-dyed with organic coating layer Superpolyester/polyester $25\mu\text{/E}$ according to EN10169, NFP 34-301. Also available (on demand) with organic coating: Plastisol, PVC, PVDF, THD, metal coating: Galfan, Alusi, EZ.

Arcelor Mittal Group certifications are available upon request.

Colours

Red orange RAL-2001, dark red Ral 3013, gray white RAL-9002, pure white RAL-9010, ivory RAL-1014, light gray RAL-7035, white silver RAL-9006, pastel blue RAL-5024, green RAL-6011, traffic red RAL-3020. Other colours also available on demand.

Special items and Accessories

The full range of supplementary special items and conjunctive accessories is available to cover the applications of the long-span cover sheets.

Technical Properties

Length: 0.50 m to 15.00 m

Net Cover: 828 mm

Thickness t (mm)	Weight		Moment of Inertia (cm^4)
	w (kg/m)	w (kg/m ²)	
0.75	7.20	8.70	55,12
1.00	9.60	11.59	74,53
1.25	12.00	14.49	93,94
1.50	14.40	17.39	

The tables below present the admissible load (Q) including the sheet weight, with respect to the span (L) and to selected values of deflection limits, for sheet thicknesses of 0.75mm, 1.00mm and 1.25mm. The end support width is 40mm min and the intermediate support width is 160 mm min. Safe load tables are available upon request for the remaining thicknesses as well as for different support widths.

ADMISSIBLE LOAD (kg/m ²)																					
Load bearing capacity (no deflection limit constrain)																					
L (m)		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	5.25	5.50	5.75	6.00	6.25
t (mm)	g (kg/m ²)	SINGLE SPAN SYSTEM																			
0.75	8.7	959	705	539	426	345	285	240	204	176	153	135	119	107	96	86	78	71	65	60	55
1.00	11.6	1541	1132	867	685	555	458	385	328	283	247	217	192	171	154	139	126	115	105	96	89
1.25	14.5	1942	1426	1092	863	699	578	389	414	357	311	273	242	216	194	175	158	144	132	121	112
		DOUBLE SPAN SYSTEM																			
0.75	8.7	1267	945	724	572	463	383	322	274	236	206	181	160	143	128	116	105	96	88	80	74
1.00	11.6	2059	1513	1158	915	741	613	515	439	378	329	290	256	229	205	185	168	153	140	129	119
1.25	14.5	2596	1907	1460	1154	934	772	649	553	477	415	365	323	288	259	234	212	193	177	162	150
		MULTI SPAN SYSTEM																			
0.75	8.7	1289	947	725	573	464	384	322	275	237	206	181	161	143	129	116	105	96	88	81	74
1.00	11.6	2120	1557	1192	942	763	631	530	452	389	339	298	264	236	211	191	173	158	144	132	122
1.25	14.5	2671	1962	1502	1187	962	795	668	569	491	427	376	333	297	266	240	218	199	182	167	154

ADMISSIBLE LOAD (kg/m ²)																					
Deflection Limit L/250																					
L (m)		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	5.25	5.50	5.75	6.00	6.25
t (mm)	g (kg/m ²)	SINGLE SPAN SYSTEM																			
0.75	8.7	860	542	363	255	186	140	108	85	68	55	45	38	32	27	23	20	17	15	13	12
1.00	11.6	1095	690	462	325	237	178	386	108	86	70	58	48	41	34	30	26	22	19	17	15
1.25	14.5	1382	870	583	409	299	224	390	136	109	88	73	61	51	44	37	32	28	25	22	19
		DOUBLE SPAN SYSTEM																			
0.75	8.7	1267	945	724	572	448	336	259	204	163	133	109	91	77	65	56	48	42	37	32	29
1.00	11.6	2059	1513	1113	782	570	428	330	259	208	169	139	116	98	83	71	62	54	47	41	36
1.25	14.5	2596	1907	1404	986	719	540	416	327	262	213	176	146	123	105	90	78	68	59	52	46
		MULTI SPAN SYSTEM																			
0.75	8.7	1289	947	685	481	351	264	203	160	128	104	86	71	60	51	44	38	33	29	25	22
1.00	11.6	2068	1302	872	613	447	336	258	203	163	132	109	91	77	65	56	48	42	37	32	29
1.25	14.5	2609	1643	1101	773	564	423	326	257	205	167	138	115	97	82	70	61	53	46	41	36



ADMISSIBLE LOAD (kg/m ²)																					
Deflection Limit L/300																					
L (m)		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	5.25	5.50	5.75	6.00	6.25
t (mm)	g (kg/m ²)	SINGLE SPAN SYSTEM																			
0.75	8.7	717	451	302	212	155	116	90	70	56	46	38	32	27	23	19	17	15	13	11	10
1.00	11.6	913	575	385	270	197	148	387	90	72	58	48	40	34	29	25	21	19	16	14	13
1.25	14.5	1152	725	486	341	249	187	391	113	91	74	61	51	43	36	31	27	23	20	18	16
		DOUBLE SPAN SYSTEM																			
0.75	8.7	1267	945	724	512	373	280	216	170	136	111	91	76	64	54	47	40	35	31	27	24
1.00	11.6	2059	1385	928	651	475	357	275	216	173	141	116	97	81	69	59	51	45	39	34	30
1.25	14.5	2596	1747	1170	822	599	450	347	273	218	178	146	122	103	87	75	65	56	49	43	38
		MULTI SPAN SYSTEM																			
0.75	8.7	1289	852	571	401	292	220	169	133	107	87	71	59	50	43	37	32	27	24	21	19
1.00	11.6	1723	1085	727	511	372	280	215	169	136	110	91	76	64	54	47	40	35	31	27	24
1.25	14.5	2174	1369	917	644	470	353	272	214	171	139	115	96	81	68	59	51	44	39	34	30

ADMISSIBLE LOAD (kg/m ²)																					
Deflection Limit L/500																					
L (m)		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	5.25	5.50	5.75	6.00	6.25
t (mm)	g (kg/m ²)	SINGLE SPAN SYSTEM																			
0.75	8.7	430	271	181	127	93	70	54	42	34	28	23	19	16	14	12	10	9	8	7	6
1.00	11.6	548	345	231	162	118	89	388	54	43	35	29	24	20	17	15	13	11	10	9	8
1.25	14.5	691	435	292	205	149	112	392	68	54	44	36	30	26	22	19	16	14	12	11	10
		DOUBLE SPAN SYSTEM																			
0.75	8.7	1036	652	437	307	224	168	130	102	82	66	55	46	38	33	28	24	21	18	16	14
1.00	11.6	1319	831	557	391	285	214	165	130	104	84	70	58	49	42	36	31	27	23	21	18
1.25	14.5	1665	1048	702	493	360	270	208	164	131	107	88	73	62	52	45	39	34	30	26	23
		MULTI SPAN SYSTEM																			
0.75	8.7	812	511	343	241	175	132	102	80	64	52	43	36	30	26	22	19	16	14	13	11
1.00	11.6	1034	651	436	306	223	168	129	102	81	66	55	45	38	33	28	24	21	18	16	14
1.25	14.5	1305	822	550	387	282	212	163	128	103	83	69	57	48	41	35	30	26	23	20	18