

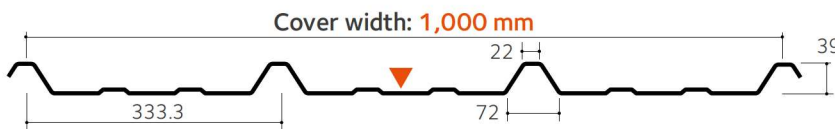
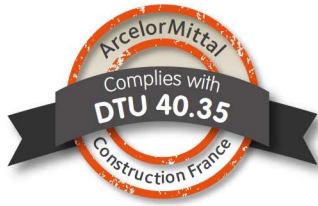
Trapeza® range

Trapeza® 3.333.39T

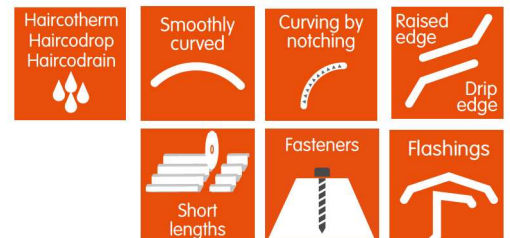


ArcelorMittal

Trapezoidal roof profile



Length of profile:
Minimum 1800 mm / Maximum 12,800 mm



Experimental features

According to Veritas report no. DLC/L 7 84 295

		Thickness (mm)								
		0.63	0.75	0.88	1.00	1.25				
Surface weight (kg/m ²)		5.86	6.98	8.19	9.30	11.63				
Effect of downward loads	Moment of inertia (cm ⁴ /lm)	Single span	I2	17.06	16.47	19.32	21.96	27.45		
		Two equal spans	I3	10.96	11.06	16.19	18.71	23.13		
		Continuity	Im	14.01	15.26	17.91	20.35	25.44		
	Moment of flexion (m.daN/lm)	By the span	Elastic system	Md2T	113.78	139.24	163.38	185.66	232.07	
			Elasto-plastic system	Md3T	140.00	189.85	222.75	253.13	316.41	
On support		Md3A	135.65	148.02	173.68	197.36	246.70			
	Under concentrated load	Mc	96.66	134.03	157.27	178.71	223.39			
	Reaction at the support (daN/lm)	Rd	525.37	612.54	718.71	816.72	1020.90			
Effect of upward loads	Complete fastening at top of rib	Moment of flexion (m.daN/lm)	By the span	Elastic system	Ma2T	100.71	164.68	193.23	219.58	274.47
				Elasto-plastic system	Ma3T	116.64	182.21	213.80	242.95	303.69
		On support	Ma3A	83.39	137.86	161.75	183.81	229.76		
		Lift-off force on support (daN/lm)	Sa	467.44	602.11	706.47	802.81	1,003.51		
	Reduced fastening at top of rib	Moment of flexion (m.daN/lm)	By the span	Elastic system	Ma2T	100.71	164.68	193.23	219.58	274.47
			Elasto-plastic system	Ma3T	78.69	195.33	229.19	260.44	303.69	
On support		Ma3A	56.52	87.69	102.89	116.92	229.76			
	Lift-off force on support (daN/lm)	Sar	311.13	455.31	534.23	607.08	1,140.39			

Loads table under the climatic load effect for equal spans

Trapeza® 3.333.39T	Unweighted operating loads (daN/m ²)	2 supports					3 supports					4 supports					
		0.63	0.75	0.88	1.00	1.25	0.63	0.75	0.88	1.00	1.25	0.63	0.75	0.88	1.00	1.25	
Downward loads	45	1.95	2.35	2.75	3.05	3.50	2.20	2.95	3.40	3.80	4.35	2.20	2.95	3.40	3.80	4.25	
	55	1.95	2.35	2.75	3.05	3.35	2.20	2.95	3.40	3.80	4.30	2.20	2.95	3.40	3.80	4.05	
	65	1.95	2.35	2.75	3.00	3.20	2.20	2.95	3.40	3.80	4.10	2.20	2.95	3.40	3.60	3.85	
	75	1.95	2.35	2.75	2.85	3.05	2.20	2.95	3.40	3.70	3.95	2.20	2.95	3.35	3.45	3.70	
	90	1.95	2.35	2.60	2.70	2.90	2.20	2.95	3.35	3.50	3.75	2.20	2.95	3.15	3.30	3.50	
	100	1.95	2.35	2.50	2.60	2.80	2.20	2.95	3.25	3.40	3.60	2.20	2.90	3.05	3.20	3.40	
	125	1.95	2.25	2.35	2.45	2.60	2.20	2.75	2.95	3.15	3.40	2.20	2.70	2.85	2.95	3.20	
	150	1.95	2.10	2.20	2.30	2.50	2.20	2.50	2.70	2.90	3.20	2.20	2.55	2.70	2.80	3.00	
	175	1.85	2.00	2.10	2.20	2.35	1.95	2.25	2.50	2.65	2.95	2.05	2.35	2.55	2.65	2.85	
	200	1.70	1.90	2.05	2.10	2.25	1.70	1.95	2.30	2.50	2.80	1.85	2.15	2.40	2.55	2.75	
Upward loads	225	1.50	1.75	1.95	2.05	2.20	1.50	1.75	2.05	2.35	2.65	1.65	1.95	2.25	2.40	2.65	
	250	1.35	1.60	1.85	1.95	2.10	1.35	1.60	1.85	2.10	2.50	1.50	1.75	2.05	2.30	2.55	
	Complete fastening at top of rib	75	1.95	2.35	2.75	3.05	3.65	2.20	2.95	3.40	3.80	4.35	2.20	2.95	3.40	3.80	4.35
		100	1.95	2.35	2.75	3.05	3.65	2.20	2.95	3.40	3.65	4.10	2.20	2.95	3.40	3.70	4.20
		125	1.95	2.35	2.75	3.05	3.55	2.15	2.80	3.00	3.25	3.65	2.20	2.85	3.10	3.30	3.70
		150	1.90	2.35	2.65	2.85	3.20	1.95	2.50	2.75	2.95	3.30	2.05	2.60	2.80	3.00	3.35
		200	1.60	2.05	2.30	2.45	2.75	1.60	2.05	2.35	2.50	2.85	1.75	2.25	2.40	2.60	2.90
	Reduced fastening at top of rib	50						2.20	2.95	3.40	3.80	4.35	2.20	2.95	3.40	3.80	4.35
		75						2.20	2.90	3.15	3.40	3.85	2.20	2.95	3.40	3.70	4.15
		100						2.00	2.50	2.70	2.90	3.30	2.10	2.70	2.95	3.15	3.55
125							1.75	2.20	2.40	2.60	2.90	1.85	2.40	2.60	2.80	3.15	
150							1.45	2.00	2.20	2.35	2.65	1.55	2.20	2.35	2.55	2.70	
200						1.05	1.55	1.85	2.00	2.00	1.15	1.70	2.00	2.20	2.00		