

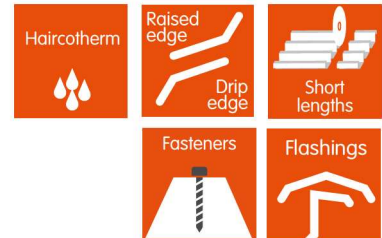
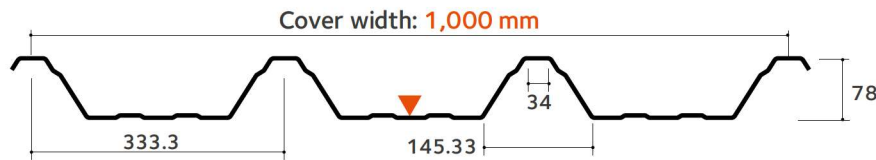
# Trapeza® range

## Trapeza® 3.333.79T



ArcelorMittal

Trapezoidal roof profile



Length of profile:

Minimum 1800 mm / Maximum 18,000 mm

The use of this profile on the outer skin of Globalroof® hot roof systems with liner trays is not covered by the ETN

### Experimental features

According to Véritas report no. DLC/L 7 85 338 and Socotec report no. CM 7248

		Thickness (mm)							
		0.63	0.75	0.88	1.00	1.25			
Surface weight (kg/m²)		6.43	7.65	8.98	10.20	12.76			
Effect of downward loads	Moment of inertia (cm⁴/lm)	Single span	I2	61.45	100.1	117.5	133.5	166.9	
		Two equal spans	I3	51.81	74.63	87.57	99.51	124.3	
		Continuity	Im	56.63	87.39	102.5	116.5	145.6	
	Moment of flexion (m.daN/lm)	By the span	Elastic system	Md2T	298.6	398.2	467.2	530.9	663.7
			Elasto-plastic system	Md3T	298.2	427.6	501.7	570.1	712.6
		On support	Md3A	253.8	344.4	404.2	459.3	574.1	
Reaction at the support (daN/lm)	Mc	204.5	275.0	322.7	366.7	458.4			
Effect of upward loads	Complete fastening at top of rib	By the span	Elastic system	Ma2T	254.2	340.9	400.0	454.5	568.2
			Elasto-plastic system	Ma3T	225.9	355.0	416.5	473.3	591.7
		On support	Ma3A	191.5	255.8	300.1	341.1	426.4	
	Lift-off force on support (daN/lm)	Sa	503.5	503.5	590.8	671.4	839.3		
	Reduced fastening at top of rib	By the span	Elastic system	Ma2T	169.5	227.2	266.6	303.0	368.2
			Elasto-plastic system	Ma3T	222.4	241.1	282.9	321.4	391.7
On support		Ma3A	149.2	174.9	205.3	233.3	286.4		
Lift-off force on support (daN/lm)	Sar	470.7	470.7	552.3	627.6	775.7			

### Loads table under the climatic load effect for equal spans

Trapeza® 3.333.79T	Unweighted operating loads (daN/m²)	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	4.45	5.10	5.50	5.80	6.40	4.45	5.30	5.65	6.00	6.65	4.45	5.30	5.65	6.00	6.00	
	55	4.45	5.10	5.50	5.70	6.10	4.45	5.30	5.65	6.00	6.65	4.45	5.30	5.65	6.00	6.00	
	65	4.45	5.10	5.50	5.70	6.10	4.45	5.30	5.65	6.00	6.65	4.45	5.30	5.65	6.00	6.00	
	75	4.10	4.80	5.00	5.20	5.55	4.45	5.30	5.65	6.00	6.65	4.45	5.30	5.65	6.00	6.00	
	90	3.85	4.50	4.75	4.95	5.30	4.10	4.85	5.20	5.55	6.15	4.10	4.85	5.25	5.55	6.00	
	100	3.75	4.35	4.60	4.80	5.10	3.90	4.60	5.00	5.30	5.85	3.90	4.60	5.00	5.30	5.85	
	125	3.50	4.00	4.30	4.45	4.80	3.50	4.15	4.50	4.75	5.30	3.50	4.15	4.50	4.75	5.30	
	150	3.15	3.70	3.95	4.20	4.55	3.15	3.80	4.10	4.35	4.85	3.20	3.80	4.10	4.35	4.85	
	175	2.70	3.40	3.70	3.90	4.30	2.70	3.55	3.80	4.05	4.55	2.95	3.55	3.80	4.05	4.55	
	200	2.40	3.20	3.45	3.70	4.10	2.35	3.30	3.60	3.80	4.25	2.60	3.30	3.60	3.80	4.25	
Upward loads	225	2.10	3.05	3.25	3.50	3.90	2.10	3.15	3.40	3.60	4.00	2.30	3.15	3.40	3.60	4.00	
	250	1.90	2.85	3.10	3.30	3.70	1.90	2.85	3.20	3.45	3.80	2.10	3.00	3.20	3.45	3.80	
	Complete fastening at top of rib	50	4.45	5.10	5.50	5.80	6.40	4.45	5.30	5.65	6.00	6.65	4.45	5.30	5.65	6.00	6.00
		75	4.40	4.80	5.50	5.80	6.40	4.15	4.90	5.45	5.85	6.60	4.15	5.20	5.65	6.00	6.00
		100	3.50	3.55	4.20	4.80	5.75	3.55	3.60	4.25	4.90	5.60	3.55	3.90	4.65	5.20	5.85
		125	2.80	2.80	3.30	3.80	4.80	2.80	2.85	3.35	3.85	4.85	3.05	3.10	3.65	4.20	5.20
		150	2.30	2.30	2.75	3.10	3.95	2.30	2.35	2.75	3.15	4.00	2.55	2.55	3.00	3.45	4.35
	Reduced fastening at top of rib	200	1.70	1.70	2.05	2.30	2.90	1.70	1.75	2.05	2.35	2.95	1.90	1.90	2.25	2.55	3.20
		50						4.45	5.15	5.65	6.00	6.65	4.45	5.30	5.65	6.00	6.00
		75						3.80	4.10	4.50	4.85	5.50	3.85	4.30	4.65	5.00	5.65
100							2.85	3.35	3.85	4.10	4.65	2.85	3.65	4.00	4.30	4.85	
125							2.25	2.65	3.15	3.60	4.10	2.25	2.90	3.40	3.80	4.30	
150						1.85	2.20	2.60	2.95	3.75	1.85	2.40	2.80	3.25	3.90		
200						1.40	1.60	1.90	2.20	2.75	1.40	1.75	2.10	2.40	3.00		