

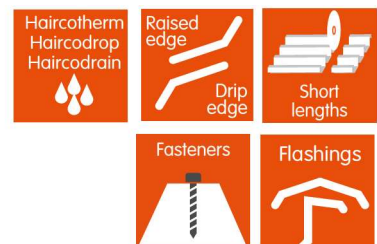
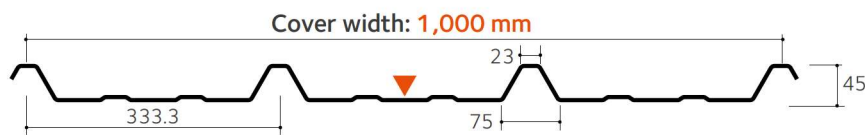
# Trapeza® range

## Trapeza® 3.45.1000TS



ArcelorMittal

Trapezoidal roof profile



Length of profile:  
Minimum 1800 mm / Maximum 13,000 mm

### Experimental features

		Thickness (mm)							
		0.63	0.75	0.88	1.00				
According to Veritas report no. DLC 79 473/1		Surface weight (kg/m <sup>2</sup> )							
		6.03	7.18	8.43	9.58				
Effect of downward loads	Moment of inertia (cm <sup>4</sup> /lm)	Single span	I2	20.23	25.11	29.46	33.48		
		Two equal spans	I3	13.62	16.32	19.15	21.76		
	Moment of flexion (m.daN/lm)	Continuity	lm	16.93	20.71	24.30	27.61		
		By the span	Elastic system	Md2T	141.66	162.68	190.88	216.91	
			Elasto-plastic system	Md3T	159.19	194.68	228.42	259.57	
		On support	Md3A	125.75	153.31	179.88	204.41		
Under concentrated load	Mc	114.23	151.61	177.89	202.15				
Reaction at the support (daN/lm)		Rd	591.39	694.52	814.90	926.02			
Effect of upward loads	Complete fastening at top of rib	Moment of flexion (m.daN/lm)	By the span	Elastic system	Ma2T	171.96	187.66	220.19	250.21
			Elasto-plastic system	Ma3T	148.87	218.75	256.67	291.67	
		On support	Ma3A	128.41	158.87	186.41	211.83		
	Reduced fastening at top of rib	Lift-off force on support (daN/lm)		Sa	559.26	578.59	678.88	771.45	
		Moment of flexion (m.daN/lm)	By the span	Elastic system	Ma2T	171.96	187.66	220.19	250.21
			Elasto-plastic system	Ma3T	100.37	148.15	173.83	197.53	
On support	Ma3A	86.73	108.23	126.99	144.31				
Lift-off force on support (daN/lm)		Sar	411.18	403.86	473.86	538.48			

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

Trapeza® 3.45.1000TS	Unweighted operating loads (daN/m <sup>2</sup> )	2 supports				3 supports				4 supports				
		0.63	0.75	0.88	1.00	0.63	0.75	0.88	1.00	0.63	0.75	0.88	1.00	
Downward loads	45	2.40	2.75	3.15	3.50	2.60	3.30	3.80	4.00	2.60	3.30	3.80	4.00	
	55	2.40	2.75	3.15	3.50	2.60	3.30	3.80	4.00	2.60	3.30	3.80	4.00	
	65	2.40	2.75	3.15	3.45	2.60	3.30	3.80	4.00	2.60	3.30	3.80	4.00	
	75	2.40	2.75	3.15	3.30	2.60	3.30	3.70	3.85	2.60	3.30	3.70	3.85	
	90	2.40	2.75	3.00	3.10	2.60	3.25	3.50	3.65	2.60	3.30	3.50	3.65	
	100	2.40	2.75	2.90	3.00	2.60	3.10	3.35	3.55	2.60	3.10	3.35	3.50	
	125	2.40	2.55	2.70	2.80	2.55	2.80	3.00	3.20	2.55	2.80	3.05	3.20	
	150	2.20	2.35	2.55	2.65	2.30	2.55	2.75	2.90	2.35	2.60	2.80	2.95	
	175	2.05	2.20	2.35	2.50	2.15	2.35	2.55	2.70	2.15	2.40	2.60	2.75	
	200	1.90	2.05	2.20	2.35	1.90	2.20	2.40	2.55	2.05	2.25	2.40	2.60	
Upward loads	225	1.70	1.95	2.10	2.25	1.70	2.00	2.25	2.40	1.85	2.10	2.30	2.45	
	250	1.55	1.80	2.00	2.10	1.55	1.80	2.10	2.30	1.70	1.95	2.20	2.30	
	Complete fastening at top of rib	75	2.40	2.75	3.15	3.50	2.60	3.30	3.80	4.00	2.60	3.30	3.80	4.00
		100	2.40	2.75	3.15	3.50	2.60	3.30	3.65	3.90	2.60	3.30	3.80	4.00
		125	2.40	2.75	3.15	3.35	2.60	3.00	3.25	3.45	2.60	3.10	3.40	3.60
		150	2.40	2.60	2.85	3.05	2.35	2.70	2.95	3.15	2.35	2.85	3.10	3.30
		200	1.90	2.00	2.35	2.60	1.90	2.00	2.35	2.70	2.00	2.15	2.55	2.85
	Reduced fastening at top of rib	50					2.60	3.30	3.80	4.00	2.60	3.30	3.80	4.00
		75					2.60	3.25	3.55	3.80	2.60	3.30	3.65	3.90
		100					2.35	2.75	3.00	3.25	2.35	2.90	3.15	3.35
125						2.10	2.25	2.65	2.85	2.10	2.45	2.80	3.00	
150						1.85	1.85	2.20	2.55	1.85	2.05	2.40	2.70	
200					1.40	1.40	1.65	1.85	1.40	1.50	1.80	2.05		