

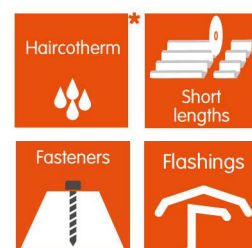
Frequency® range

Frequency® 9.25T



ArcelorMittal

Corrugated roof profile



Length of profile:
Minimum 1800 mm / Maximum 11,000 mm
Minimum thickness: 0.75 mm

2 overlapping corrugations are obligatory, with or without Haircotherm®

* With Haircotherm®: the overlapping corrugation at the end is not covered with a regulator

Minimum slope 10 % or 15 % depending on the roof configuration

Experimental features

According to Socotec report no. GM 7497

				Thickness (mm)				
				0.75	0.88	1.00		
		Surface weight (kg/m ²)		7.58	8.90	10.11		
Effect of downward loads	Moment of inertia (cm ⁴ /lm)	Single span	I2	6.88	8.08	9.18		
		Two equal spans	I3	5.11	5.99	6.81		
		Continuity	Im	5.99	7.03	7.99		
	Moment of flexion (m.daN/lm)	By the span	Elastic system	Md2T	205.19	240.76	273.59	
			Elasto-plastic system	Md3T	220.04	258.18	293.38	
On support			Md3A	196.37	230.41	261.83		
	Under concentrated load		Mc	136.27	159.89	181.70		
	Reaction at the support (daN/lm)		Rd	768.48	901.69	1,024.64		
Effect of upward loads	Complete fastening at top of rib	Moment of flexion (m.daN/lm)	By the span	Elastic system	Ma2T	202.82	237.98	270.43
				Elasto-plastic system	Ma3T	234.42	275.06	312.57
			On support		Ma3A	125.00	146.67	166.67
		Lift-off force on support (daN/lm)		Sa	440.69	517.08	587.59	

Loads table under the climatic load effect for equal spans

Frequency® 9.25T	Unweighted operating loads (daN/m ²)	2 supports			3 supports			4 supports			
		0.75	0.88	1.00	0.75	0.88	1.00	0.75	0.88	1.00	
Downward loads	45	2.30	2.40	2.45	2.80	2.90	3.05	2.70	2.85	2.95	
	55	2.15	2.25	2.35	2.65	2.75	2.85	2.55	2.65	2.75	
	65	2.05	2.15	2.20	2.50	2.65	2.75	2.45	2.55	2.65	
	75	1.95	2.05	2.15	2.40	2.50	2.60	2.30	2.45	2.55	
	90	1.85	1.95	2.00	2.25	2.40	2.50	2.20	2.30	2.40	
	100	1.80	1.90	1.95	2.20	2.30	2.40	2.15	2.25	2.30	
	125	1.65	1.75	1.85	2.05	2.15	2.25	2.00	2.10	2.15	
	150	1.60	1.65	1.75	1.95	2.05	2.10	1.85	1.95	2.05	
	175	1.50	1.60	1.65	1.85	1.95	2.00	1.80	1.90	1.95	
	200	1.45	1.50	1.60	1.75	1.85	1.95	1.70	1.80	1.85	
Upward loads	Complete fastening at top of rib	75	2.30	2.40	2.45	2.80	2.90	3.05	2.70	2.85	2.95
		100	2.30	2.40	2.45	2.80	2.90	3.05	2.70	2.85	2.95
		125	2.30	2.40	2.45	2.45	2.90	3.05	2.70	2.85	2.95
		150	2.05	2.40	2.45	2.05	2.40	2.75	2.25	2.65	2.95
		200	1.50	1.80	2.05	1.50	1.80	2.05	1.65	1.95	2.25