

## RANGE OF APPLICATIONS:

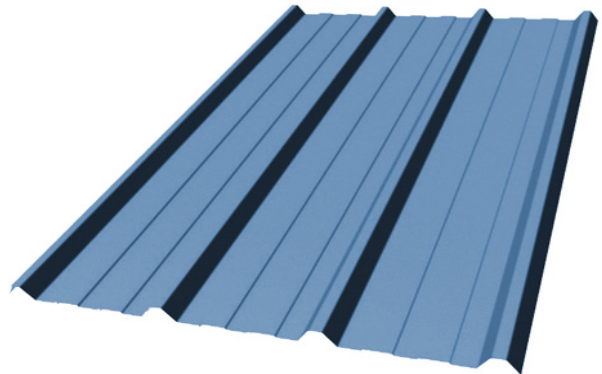
Simple covering  
 Sandwich covering-Exterior profile  
 Sandwich covering-Interior profile

## RAW MATERIALS:

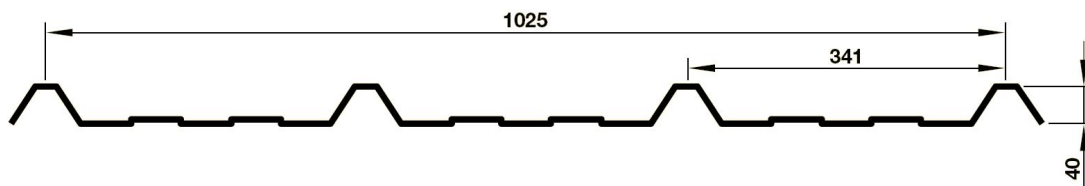
Steel quality: EN 10326  
 Galvanized steel: EN 10326  
 Pre-coated steel: EN10169-1  
 Dimensional and shape tolerances :EN 10143  
 Colours and qualities: See the EUROPERFIL colour chart

## STATIC VALUES COMPLETE SECTION

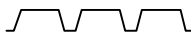

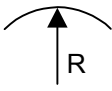
Thickness mm	Weight Kg/m2	Ig cm4/ml	W1 cm3/ml	W2 cm3/ml
0,63	6,03	10,909	14,890	3,444
0,70	6,70	12,204	16,603	3,856
0,75	7,18	13,130	17,819	4,151
0,80	7,66	14,055	19,030	4,446
0,88	8,42	15,536	20,956	4,919
1,00	9,57	17,758	23,820	5,630
1,20	11,49	21,465	28,526	6,820



## GEOMETRIC CHARACTERISTICS



## MANUFACTURING SPECIFICATIONS AND ACCESSORIES

Hairphone Perforated max. thickness 1mm		NO	Flat curved		covering	YES		
Profiled thickness	min.	0,60 mm.	Gradual curved		facade	NO		
	max.	1,20 mm.			covering	YES		
Min. profiled length		1.200 mm.	Ribbed grey joining piece		facade	YES		
Min. length cut		100 mm.			Ribbed polyester		YES	
Max. profiled length		16.990 mm.	Approximate Max. load m2/lorry		2.200			
Die punching	covering	YES						
	facade	NO						
Curved radius according to position	Position							
	Thickness (mm.)	0,60	0,75	1	0,60	0,75	1	
	Radius (m.)	34	35	36	32	29	27	

The values provided in this document are derived from tests carried out under the control of BUREAU VERITAS, and conform to the French REGULATIONS for the manufacturing and use of metallic profiles (NFP 34.503), according to the report DEM 7 91 345 02. EUROPERFIL, S.A. reserves the right to modify any of the characteristics of the profile without previous notice.

### CENTRAL OFFICES

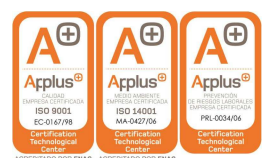
Avda. de la Granvia, 179  
 Pol. Ind. Granvia Sur  
 08908 L'HOSPITALET (BCN)  
 ☎ 93 261 63 33  
 📠 93 261 63 38  
[www.europafil.es](http://www.europafil.es)

### CERVERA FACTORY

Avda. Vall d'Aran, s/n.  
 Pol. Ind. de Cervera  
 25200 CERVERA  
 ☎ 973 53 20 26  
 📠 973 53 21 70  
 📠 ALMACÉN 973 53 20 86

### PANEL FACTORY



Avda. Vall d'Aran, s/n.  
 Pol. Ind. de Cervera  
 25200 CERVERA  
 ☎ 973 53 20 26  
 📠 973 53 21 70  
 📠 ALMACÉN 973 53 20 86



## MECHANICAL CHARACTERISTICS



USEFUL VALUES OF THE PROFILE Quality Fe E 320 G			Thicknesses (mm.)							
			0,63	0,70	0,75	0,80	0,88	1,00	1,20	
Decreasing loads	Moment of inertia (simple)	cm <sup>4</sup> /m	10,702	12,892	13,813	14,734	16,207	18,417	22,10	
	Moment of inertia (continuous)	cm <sup>4</sup> /m	7,769	9,462	10,138	10,814	11,895	13,518	16,222	
	Moment of useful flexibility (simple)	mdaN/m	65,31	77,27	82,79	88,31	97,14	110,38	132,46	
	Moment of flexibility (continuous)	mdaN/m	101,77	113,17	121,25	129,34	142,27	161,67	194,00	
	Reaction limit (supporting)	daN/m	533,1	553,4	592,9	632,4	695,60	790,5	948,60	
Increasing loads	Fixing at all of the rib peaks	Moment of useful flexibility (simple)	mdaN/m	63,80	82,68	88,59	94,49	103,94	118,12	141,74
		Moment of flexibility (continuous)	mdaN/m	72,51	94,31	101,05	107,78	118,56	134,73	161,68
		Starting force	daN/m	464,8	574,7	615,8	656,8	722,5	821,0	985,20
	Reduced fixing at the peaks.	Moment of useful flexibility (simple)	mdaN/m	63,80	82,68	88,59	94,49	103,94	118,12	141,74
		Moment of flexibility (continuous)	mdaN/m	60,68	64,84	69,47	74,10	81,51	92,62	111,14
		Starting force	daN/m	444,9	468,0	501,4	534,8	588,3	668,6	802,32
	Reinforced fixing in the trough	Moment of useful flexibility (simple)	mdaN/m	63,8	82,68	88,59	94,49	103,94	118,12	141,74
		Moment of flexibility (continuous)	mdaN/m	90,94	105,21	112,73	120,24	132,26	150,30	180,36
		Starting force	daN/m	581,80	666,2	713,7	761,3	837,4	951,7	1142,0
	Reduced fixing in the trough	Moment of useful flexibility (simple)	mdaN/m	63,80	82,68	88,59	94,49	103,94	118,12	141,74
		Moment of flexibility (continuous)	mdaN/m	85,30	78,91	84,55	90,18	99,20	112,73	135,28
		Starting force	daN/m	556,1	696,6	746,4	796,2	875,7	995,2	1194,2
	Maximum separation between supports		m	2,10	2,90	2,90	2,90	2,90	3,65	3,65

**TABLE OF ADMISSIBLE SPANS (M) FOR DECREASING LOADS(ADMISSIBLE DEFLECTION L/200)**



Useful load daN/m <sup>2</sup> .														
	Thicknesses (mm.)							Thicknesses (mm.)						
	0,63	0,70	0,75	0,80	0,88	1,00	1,20	0,63	0,70	0,75	0,80	0,88	1,00	1,20
50	2,10	2,75	2,80	2,85	2,90	3,10	3,30	2,10	2,90	2,90	2,90	2,90	3,65	3,65
75	2,10	2,40	2,45	2,50	2,60	2,70	2,85	2,10	2,90	2,90	2,90	2,90	3,30	3,50
100	2,05	2,20	2,25	2,30	2,35	2,45	2,60	2,10	2,65	2,75	2,80	2,90	3,00	3,20
125	1,90	2,05	2,05	2,10	2,20	2,30	2,40	2,10	2,50	2,55	2,60	2,70	2,80	2,95
150	1,80	1,90	1,95	2,00	2,05	2,15	2,25	2,10	2,35	2,40	2,45	2,50	2,65	2,80
175	1,70	1,80	1,85	1,90	1,95	2,05	2,15	2,10	2,20	2,25	2,30	2,40	2,50	2,65
200	1,60	1,75	1,75	1,80	1,85	1,95	2,05	2,00	2,10	2,15	2,20	2,30	2,40	2,50
225	1,50	1,65	1,70	1,75	1,80	1,90	1,95	1,85	1,90	2,05	2,10	2,20	2,30	2,40
250	1,45	1,55	1,60	1,65	1,75	1,80	1,90	1,65	1,75	1,85	1,95	2,10	2,20	2,35

For inferior loads and thicknesses, the admissible value is determined by the temporary assembly load, according to the tests of temporary and linear loads of 200 daN.

**TABLE OF ADMISSIBLE SPANS (M) FOR INCREASING LOADS (fixed at rib peak)**

Thickness of the support. Mm	Normal wind suction daN/m <sup>2</sup>														
		Fixed at all the ribs							Fixed at all the ribs						
		Thicknesses (mm.)							Thicknesses (mm.)						
		0,63	0,70	0,75	0,80	0,88	1,00	1,20	0,63	0,70	0,75	0,80	0,88	1,00	1,20
1,70	50	2,10	2,90	2,90	2,90	2,90	3,65	3,65	2,10	2,90	2,90	2,90	2,90	3,65	3,65
	75	2,10	2,90	2,90	2,90	2,90	3,65	3,65	2,10	2,90	2,90	2,90	2,90	3,05	3,15
	100	2,10	2,65	2,70	2,70	2,70	2,75	2,80	2,10	2,15	2,15	2,15	2,15	2,20	2,25
	125	2,05	2,10	2,10	2,10	2,15	2,15	2,20	1,65	1,70	1,70	1,70	1,70	1,70	1,75
	150	1,75	1,75	1,75	1,75	1,75	1,75	1,80	1,40	1,40	1,40	1,40	1,40	1,40	1,45
	175	1,45	1,50	1,50	1,50	1,50	1,50	1,50	1,20	1,20	1,20	1,20	1,20	1,20	1,20
	200	1,25	1,30	1,30	1,30	1,30	1,30	1,30	1,05	1,05	1,05	1,05	1,05	1,05	1,05
3,00	50	2,10	2,90	2,90	2,90	2,90	3,65	3,65	2,10	2,90	2,90	2,90	2,90	3,65	3,65
	75	2,10	2,90	2,90	2,90	2,90	3,65	3,65	2,10	2,90	2,90	2,90	2,90	3,65	3,65
	100	2,10	2,65	2,75	2,85	2,90	3,25	3,65	2,10	2,85	2,90	2,90	2,90	3,45	3,65
	125	2,05	2,35	2,45	2,55	2,65	2,85	3,25	2,10	2,50	2,60	2,70	2,85	3,05	3,10
	150	1,75	2,15	2,25	2,30	2,40	2,60	2,90	2,00	2,30	2,40	2,45	2,50	2,50	2,55
	175	1,45	2,00	2,05	2,10	2,25	2,40	2,70	1,85	2,10	2,10	2,10	2,10	2,10	2,15
	200	1,60	1,85	1,90	2,00	2,10	2,25	2,35	1,75	1,80	1,80	1,85	1,85	1,85	1,85
6,00	50	2,10	2,90	2,90	2,90	2,90	3,65	3,65	2,10	2,90	2,90	2,90	2,90	3,65	3,65
	75	2,10	2,90	2,90	2,90	2,90	3,65	3,65	2,10	2,90	2,90	2,90	2,90	3,65	3,65
	100	2,10	2,65	2,75	2,85	2,90	3,25	3,65	2,10	2,85	2,90	2,90	2,90	3,45	3,65
	125	2,05	2,35	2,45	2,55	2,65	2,85	3,25	2,10	2,50	2,60	2,70	2,85	3,05	3,45
	150	1,90	2,15	2,25	2,30	2,40	2,60	2,90	2,00	2,30	2,40	2,45	2,60	2,75	3,10
	175	1,75	2,00	2,05	2,10	2,25	2,40	2,70	1,85	2,10	2,20	2,25	2,40	2,55	2,85
	200	1,60	1,85	1,90	2,00	2,10	2,25	2,50	1,75	2,00	2,05	2,10	2,20	2,40	2,70

## TABLE OF ADMISSIBLE SPANS (M) FOR INCREASING LOADS (FIXED IN TROUGH)

Thickness of the support. Mm	Normal wind suction daN/m <sup>2</sup>														
		Fixed at all the ribs							Fixed at all the ribs						
		Thicknesses (mm.)							Thicknesses (mm.)						
		0,63	0,70	0,75	0,80	0,88	1,00	1,20	0,63	0,70	0,75	0,80	0,88	1,00	1,20
1,5<e<3	50	2,10	2,90	2,90	2,90	2,90	3,65	3,65	2,10	2,90	2,90	2,90	2,90	3,65	3,65
	75	2,10	2,90	2,90	2,90	2,90	3,65	3,65	2,10	2,90	2,90	2,90	2,90	3,65	3,65
	100	2,10	2,65	2,75	2,85	2,90	3,25	3,65	2,10	2,90	2,90	2,90	2,90	3,65	3,65
	125	2,05	2,35	2,45	2,55	2,65	2,85	3,25	2,10	2,65	2,75	2,85	2,90	3,25	3,65
	150	1,90	2,15	2,25	2,30	2,40	2,60	2,90	2,10	2,40	2,60	2,60	2,75	2,95	3,30
	175	1,75	2,00	2,05	2,10	2,25	2,40	2,70	2,05	2,25	2,30	2,40	2,50	2,70	2,85
	200	1,60	1,85	1,90	2,00	2,10	2,25	2,50	1,75	2,10	2,15	2,25	2,35	2,45	2,50
e>3	50	2,10	2,90	2,90	2,90	2,90	3,65	3,65	2,10	2,90	2,90	2,90	2,90	3,65	3,65
	75	2,10	2,90	2,90	2,90	2,90	3,65	3,65	2,10	2,90	2,90	2,90	2,90	3,65	3,65
	100	2,10	2,65	2,75	2,85	2,90	3,25	3,65	2,10	2,90	2,90	2,90	2,90	3,65	3,65
	125	2,05	2,35	2,45	2,55	2,65	2,85	3,25	2,10	2,65	2,75	2,85	2,90	3,25	3,65
	150	1,90	2,15	2,25	2,30	2,40	2,60	2,90	2,10	2,40	2,60	2,60	2,75	2,95	3,30
	175	1,75	2,00	2,05	2,10	2,25	2,40	2,70	2,05	2,25	2,30	2,40	2,50	2,70	3,05
	200	1,60	1,85	1,90	2,00	2,10	2,25	2,50	1,75	2,10	2,15	2,25	2,35	2,50	2,85

### IMPORTANT!

The values for increasing loads take into account minimum resistances for the fixings in daN. Which are reflected in the table as a function of the thickness of the support and the sheet which is to be fixed.

Thickness of the support (mm.)	Thicknesses of the sheet (mm)				
	0,60	0,70	0,80	1,00	1,20
1,5<e<3	300	300	300	300	300
e>3	270	360	440	600	600

Estimated limitation of the fixing forces used in the valley					
Thickness of the sheet (mm.)					
Thickness of the sheet (mm.)	0,60	0,70	0,80	1,00	1,20
Maximum stress with normal wind	80	120	160	240	300