



Profiled Sheet

FTB 10 • S220GD+Z ^(a)

façade



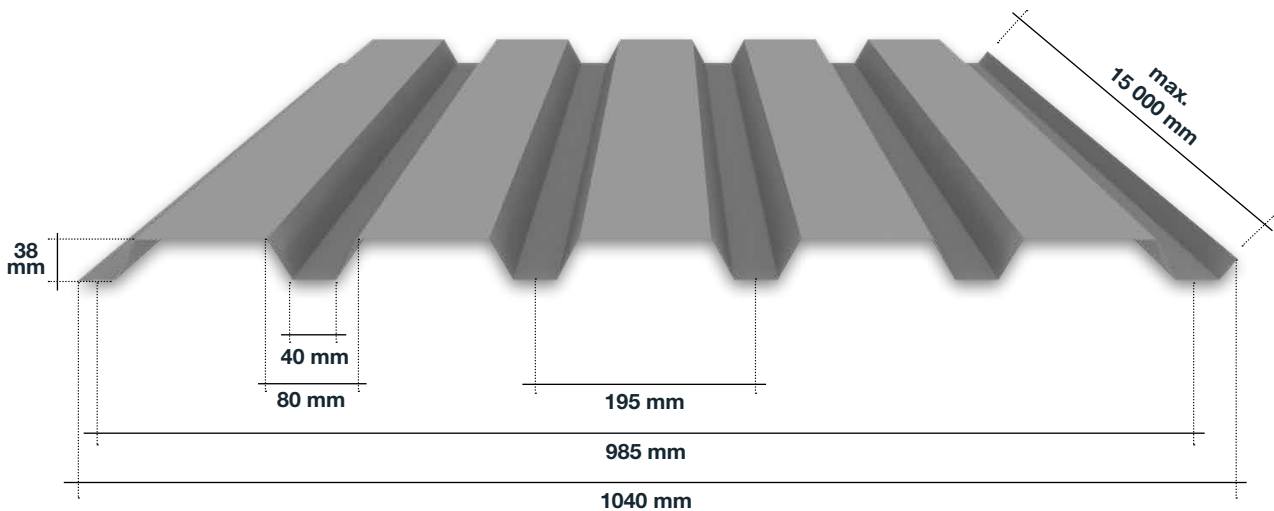
Description:

Profiled sheet, certified according with the standard **EN 14782** – “Self-supporting metal sheet for roofing, external cladding and internal lining”

Advantages:

Combine in a single element:

- Durability;
- Lightness;
- Fast assembly / disassembly;
- Reduced costs.



Properties:

NOMINAL THICKNESS	THICKNESS (FOR CALCULATION)	WEIGHT	UPPER FLANGE IN COMPRESSION		LOWER FLANGE IN COMPRESSION		COMPRESSIVE STRENGTH	SHEAR STRENGTH
			MOMENT RESISTANCE	MOMENT OF INERTIA	MOMENT RESISTANCE	MOMENT OF INERTIA		
mm	mm	kg/m ²	kN.m/m	cm ⁴ /m	kN.m/m	cm ⁴ /m	kN/m	kN/m
0,5	0,46	4,72	0,829	8,526	0,846	11,650	9,489	18,968
0,6	0,56	5,66	1,113	11,034	1,174	15,051	13,513	28,112
0,7	0,66	6,60	1,430	13,701	1,474	18,639	18,129	33,962

Note: All the values of the strengths described on the table were calculated without consider the “shear lag” effect.

If you need other characteristics that aren't described on the table(s), please contact FTB technical department.

(a) The FTB also have steel sheets with class DX51d+z. If you choose this solution, you should consult us for FTB send the calculus table respective.

Calculation tables:

Admissible load values (non majorated) in kN/m²

2 SUPPORTS		SPAN				
THICKNESS		1,0	1,5	2,0	2,5	3,0
0,5	(H)	4,46	2,01	0,90	0,48	
0,6	(H)	5,96	2,67	1,16	0,61	
0,7	(H)	7,64	3,31	1,42	0,75	0,45

3 SUPPORTS		SPAN				
THICKNESS		1,0	1,5	2,0	2,5	3,0
0,5	(H)	2,75	1,48	0,93	0,62	0,44
0,6	(H)	3,78	2,01	1,28	0,87	0,62
0,7	(H)	4,91	2,58	1,64	1,12	0,79

4 SUPPORTS		SPAN				
THICKNESS		1,0	1,5	2,0	2,5	3,0
0,5	(H)	3,29	1,78	1,13	0,77	0,49
0,6	(H)	4,53	2,42	1,56	1,08	0,63
0,7	(H)	5,88	3,15	2,01	1,36	0,79

(H) horizontal loads (perpendicular to the steel sheet)

"in black", loads conditioned by ULS

"gray background", loads conditioned by SLS

SLS - deformation limit = L/200 for horizontal loads

Characteristics:

		STANDARD		BY REQUEST	
Metallic support	Steel thickness	0,4 a 0,5 mm		0,6 mm	0,7 mm
	Coating	Galvanized	140 a 180 gr/m ²		
		Pre-painted	Polyester (25 µm)	PVDF (25/35 µm)	HDX (55 µm)
Colours		Available in the RAL chart		Remaining	