

GALFAN (+ZA)

Structural steels

Hot-coated

Flat-rolled carbon steel products can be coated with special metals or mixtures of metals, to completely avoid or postpone as much as possible the oxidation process of the steel.

These coatings may vary in type and thickness depending on the customer's needs and the impact that a given environmental context may have on the material.

Albasider is able to supply its customers with sheets, strips and strips of hot-coated materials, with thicknesses between 0.4 and 3 mm. Albasider also provides its customers with a wide range of coating types.

	Thickness	Width
Plates	0.40 - 3	≤ 2000
Tapes	0.40 - 3	≤ 2000
Straps	0.40 - 3	da 180 a 2000

Coating grades (+ZA)

ZA	ZA 90/40	ZA 95	ZA 130	ZA 155	ZA 185	ZA 200	ZA 255
Spessore (µm)	7/3	7/7	10/10	12/12	14/14	15/15	20/20

> Galfan (+ZA)

The galfan coating consists of a zinc-aluminium alloy. The composition of the coating is approx. 5% aluminium and approx. 95% zinc.

The presence of aluminium gives this particular coating greater corrosion resistance than galvanised coating, with the same coating thickness.

Surface Finish		Trattamento Superficiale	
Finish	Appearance	C	Passivated
A	Standard	O	Oiled
B	Enhanced	CO	Passivated + Oiled
		S	Anti fingerprint

Structural steels

The category of coated structural steels allows users to have excellent performance in terms of strength, with a high minimum yield strength index.

In addition to these mechanical properties, the chosen coating allows protection from oxidation even after the material has been processed.

The higher the grade chosen, S220GD → S550GD, the greater the material's propensity for mechanical resistance.

Main fields of application:

CONSTRUCTION

AUTOMOTIVE
AND TRANSPORT

CIVIL AND INDUSTRIAL
SUPPLIES

MECHANICAL CARPENTRY
PROFILES

Mechanical properties

Thickness (mm)	EN 10346	S220GD+ZA	S250GD+ZA	S280GD+ZA	S320GD+ZA
0.40 - 0.50	Re (Mpa)	≥ 220	≥ 250	≥ 280	≥ 320
	Rm (Mpa)	≥ 300	≥ 330	≥ 360	≥ 390
	A 80 (%)	≥ 16	≥ 15	≥ 14	≥ 13
0.51 - 0.70	Re (Mpa)	≥ 220	≥ 250	≥ 280	≥ 320
	Rm (Mpa)	≥ 300	≥ 330	≥ 360	≥ 390
	A 80 (%)	≥ 18	≥ 17	≥ 16	≥ 15
0.71 - 3	Re (Mpa)	≥ 220	≥ 250	≥ 280	≥ 320
	Rm (Mpa)	≥ 300	≥ 330	≥ 360	≥ 390
	A 80 (%)	≥ 20	≥ 19	≥ 18	≥ 17

Thickness (mm)	S350GD+ZA	S390GD+ZA	S420GD+ZA	S450GD+ZA	S550GD+ZA
0.40 - 0.50	≥ 350	≥ 390	≥ 420	≥ 450	≥ 550
	≥ 420	≥ 460	≥ 480	≥ 510	≥ 560
	≥ 12	≥ 12	≥ 11	≥ 10	-
0.51 - 0.70	≥ 350	≥ 390	≥ 420	≥ 450	≥ 550
	≥ 420	≥ 460	≥ 480	≥ 510	≥ 560
	≥ 14	≥ 14	≥ 13	≥ 12	-
0.71 - 3	≥ 350	≥ 390	≥ 420	≥ 450	≥ 550
	≥ 420	≥ 460	≥ 480	≥ 510	≥ 560
	≥ 16	≥ 16	≥ 15	≥ 14	-

Please note: Tests carried out transversely to the rolling direction.