

## GALVANNEALED (+ZF)

Structural  
steel

## 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 (+ZF)

ZF	ZF 80	ZF 100	ZF 120	ZF 140
Thickness (µm)	6/6	7/7	8/8	10/10

## &gt; Galvannealed coating (+ZF)

The galvannealed coating consists of a special zinc-iron mixture. Iron accounts for between 8 and 12%, the remainder being zinc.

Compared to a conventional galvannealed coating, this coating gives better weldability and better suitability for painting.

It is the ideal coating for spot welding and high-end painting applications.

Surface Finish		Surface Treatment	
Finish	Appearance	C	Passivated
A	Standard	O	Oiled
B	Enhanced	CO	Passivated + Oiled

# Structural steel

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

CARS AND TRANSPORT

CIVIL AND INDUSTRIAL SUPPLIES

MECHANICAL CARPENTRY

PROFILES

## Mechanical properties

Thickness (mm)	EN 10346	S220GD+ZF	S250GD+ZF	S280GD+ZF	S320GD+ZF
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+ZF	S390GD+ZF	S420GD+ZF	S450GD+ZF	S550GD+ZF
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.