Hot-coated

04

ZINC-MAGNESIUM (+ZM)

High-strength 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

> Zinc Magnesium Coating (+ZM)

The Zinc-Magnesium Coating consists of a special zinc-aluminium-magnesium mixture.
The sum of aluminium and magnesium is between 1.5% and 8%, the remainder being zinc.
The minimum magnesium content must be no less than 0.2 per cent. This technology guarantees significantly higher corrosion resistance compared to other types of coating.

It is particularly suitable for very aggressive environments, when a very high standard of corrosion resistance is required.

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

Coating grades (+ZM)

ZM	ZM 90	ZM 120	ZM 140	ZM 200	ZM 310
Thickness (µm)	7/7	9/9	11/11	16/16	25/25

High-strength steels

Also called micro-alloy steels, in addition to a low carbon content they have a high purity internal molecular structure.

Due to their low carbon content, they exhibit improved weldability.

The ductility, fatigue resistance and formability of these steels offer high performance at a low weight.

Main fields of application:

- CONSTRUCTION AND BUILDING
- AGRICULTURAL MACHINERY
- CARPENTRY
- PROFILES
- AUTOMOTIVE AND TRANSPORT

Mechanical properties

Thickness (mm)	**EN 10346**	**HX260LAD+ZM**	**HX300LAD+ZM**	**HX340LAD+ZM**
0.40 - 0.50	Re (Mpa)	260 - 330	300 - 380	340 - 420
	Rm (Mpa)	350 - 430	380 - 480	410 - 510
	A 80 (%)	≥ 20	≥ 17	≥ 15
0.51 - 0.70	Re (Mpa)	260 - 330	300 - 380	340 - 420
	Rm (Mpa)	350 - 430	380 - 480	410 - 510
	A 80 (%)	≥ 22	≥ 19	≥ 17
0.71 - 3	Re (Mpa)	260 - 330	300 - 380	340 - 420
	Rm (Mpa)	350 - 430	380 - 480	410 - 510
	A 80 (%)	≥ 24	≥ 21	≥ 19

Thickness (mm)	**HX380LAD+ZM**	**HX420LAD+ZM**	**HX460LAD+ZM**	**HX500LAD+ZM**
0.40 - 0.50	380 - 480	420 - 520	460 - 560	500 - 620
	440 - 560	470 - 590	500 - 640	530 - 690
	≥ 13	≥ 11	≥ 9	≥ 7
0.51 - 0.70	380 - 480	420 - 520	460 - 560	500 - 620
	440 - 560	470 - 590	500 - 640	530 - 690
	≥ 15	≥ 13	≥ 11	≥ 9
0.71 - 3	380 - 480	420 - 520	460 - 560	500 - 620
	440 - 560	470 - 590	500 - 640	530 - 690
	≥ 17	≥ 15	≥ 13	≥ 11

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