03

High yield strength steels

Electrogalvanised

Following cold rolling, the rolled product can be coated with a layer of zinc on one or both sides by means of an electrostatic deposition process.

The coating by this method is thus uniform and with a constant thickness.

The electrogalvanising process allows the steel substrate to be uniformly protected from atmospheric corrosion and to have an excellent weldability.

Albasider can supply its customers with electro-galvanised plates, tapes and straps in thicknesses between 0.4 and 3 mm

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

Surface Finish	
Finish	Appearance
A	Standard
B	Enhanced

Surface Treatment	
P	Phosphated
PC	Phosphated + Passivated
C	Passivated
PCO	Phosphated + Passivated + Oiled
CO	Passivated + Oiled
PO	Phosphated + Oiled
O	Oiled
S	Anti fingerprint
U	Untreated

Coating grades (+ZE)

ZE	ZE 25	ZE 50	ZE 75	ZE 100
Thickness (µm)	2.5/2.5	5/5	7.5/7.5	10/10

Please note: differentiated thickness can be supplied on request.

High yield strength steels

High yield strength steels are characterised by a low carbon content and other micro-alloying elements.

The degree of hardening achieved through the control of purity and molecular structure ensures excellent mechanical strength.

The result is excellent weldability and formability.

Main fields of application:

AUTOMOTIVE

INDUSTRY

CONSTRUCTION

Mechanical properties

Thickness (mm)	**EN 10268**	**HC260LA+ZE**	**HC300LA+ZE**	**HC340LA+ZE**	**HC380LA+ZE**	**HC420LA+ZE**
0.51 - 0.70	Re (Mpa)	260 - 330	300 - 380	340 - 420	380 - 480	420 - 520
	Rm (Mpa)	350 - 430	380 - 480	410 - 510	440 - 580	470 - 600
	A 80 (%)	≥ 24	≥ 21	≥19	≥ 17	≥ 15
0.71 - 3	Re (Mpa)	260 - 330	300 - 380	340 - 420	380 - 480	420 - 520
	Rm (Mpa)	350 - 430	380 - 480	410 - 510	440 - 580	470 - 600
	A 80 (%)	≥ 26	≥ 23	≥ 21	≥ 19	≥ 17

Legend

Re (MPa) = Yield strength (inelastic index); **Rm (Mpa)**= Tensile strength;
A 80 (%)= Elongation for thickness <3 mm; **r 90**= anisotropy; **n 90**= work hardening.

Please note:

Tests carried out transversely to the rolling direction.