

High strength steels

Cold rolled

The cold-rolling process is a machining process without pre-heating the steel, which reduces the thickness of the rolled steel.

Albasider is able to supply its customers with plates, tapes and straps in thicknesses between 0.40 and 3 mm.

This processing generates steels with better mechanical strength and surface finish.

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

Surface Finish		Surface treatment	
Finish	Appearance	S	Dry
A	Standard	O	Oiled
B	Enhanced		

High strength steels

High strength steels are characterised by a low carbon content and other microalloying elements.

The degree of hardening, achieved through internal molecular structure control for high purity, gives these steels high mechanical strength.

The result is excellent weldability and formability

Main fields of application:

PROFILES

INDUSTRY

AUTOMOTIVE AND TRANSPORT

INDUSTRIAL SUPPLIES

MECHANICAL APPLICATIONS

Mechanical properties

Thickness (mm)	EN 10268	HC260LA	HC300LA	HC340LA	HC380LA	HC420LA
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.