

# Cold forming and drawing 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		

# Cold-forming and drawing steels

These steels are used for deep and very deep drawing, with excellent formability.

Due to their low carbon content, they have a good aptitude for welding.

The higher the grade chosen, DC01 → DC06, the greater the material's propensity for deep drawing.

## Main fields of application:

HOUSEHOLD APPLIANCES

AUTOMOTIVE AND TRANSPORT

SHELVING

AIR CONDITIONING

TUBES

SMALL PROFILES

## Mechanical properties

Thickness (mm)	EN 10130	DC01	DC03	DC04	DC05	DC06
0.40 - 0.50	Re (Mpa)	140 - 320	140 - 280	140 - 250	140 - 220	120 - 210
	Rm (Mpa)	270 - 410	270 - 370	270 - 350	270 - 330	270 - 330
	A 80 (%)	≥ 24	≥ 30	≥ 34	≥ 36	≥ 37
	r 90	-	-	-	-	-
	n 90	-	-	-	-	-
0.51 - 0.70	Re (Mpa)	140 - 300	140 - 260	140 - 230	140 - 200	120 - 190
	Rm (Mpa)	270 - 410	270 - 370	270 - 350	270 - 330	270 - 330
	A 80 (%)	≥ 26	≥ 32	≥ 36	≥ 38	≥ 39
	r 90	-	≥ 1.30	≥ 1.60	≥ 1.90	≥ 2.10
	n 90	-	-	≥ 0.18	≥ 0.20	≥ 0.22
0.71 - 2	Re (Mpa)	140 - 280	140 - 240	140 - 210	140 - 180	120 - 170
	Rm (Mpa)	270 - 410	270 - 370	270 - 350	270 - 330	270 - 330
	A 80 (%)	≥ 28	≥ 34	≥ 38	≥ 40	≥ 41
	r 90	-	≥ 1.30	≥ 1.60	≥ 1.90	≥ 2.10
	n 90	-	-	≥ 0.18	≥ 0.20	≥ 0.22
2.01 - 3	Re (Mpa)	140 - 280	140 - 240	140 - 210	140 - 180	120 - 170
	Rm (Mpa)	270 - 410	270 - 370	270 - 350	270 - 330	270 - 330
	A 80 (%)	≥ 28	≥ 34	≥ 38	≥ 40	≥ 41
	r 90	-	≥ 1.10	≥ 1.40	≥ 1.70	≥ 1.90
	n 90	-	-	≥ 0.18	≥ 0.20	≥ 0.22

### 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.