



High-strength LC steels

Optimized bending and profiling results

The yield strength and tensile strength ranges of high-strength low-carbon (LC) steels are guaranteed, which results in material stability during further processing. These steels are especially suited to bending and profiling operations, tube and section applications as well as products in the household-appliance and barrel industries.

Convincing advantages

- » Guaranteed minimum yield strength/minimum tensile strength
- » Narrow range of parameters
- » Stable process window in highly automated production processes

Chemical composition

Heat analysis in % by mass

Steel grade	C max.	Mn max.	P max.	S max.
HC180LC	0.08	0.60	0.03	0.03
HC200LC	0.11	0.60	0.03	0.03
HC220LC	0.12	0.60	0.03	0.03

Mechanical properties: Tensile test

Transverse to rolling direction

Steel grade	Yield strength $R_{p0.2}$ [MPa]	Tensile strength R_m [MPa]	Total elongation A_{80} min. [%]
HC180LC	180 – 270	300 – 390	32
HC200LC	200 – 290	310 – 400	31
HC220LC	220 – 310	320 – 410	30

Available dimensions

Maximum available widths per thickness

Steel grade	Thickness [mm]		
	0.4	0.5 – 1.6	1.7 – 3.0
HC180LC	Not available	1600	Not available
HC200LC	1400	1600	1600
HC220LC	1400	1600	Not available

Surface finish

High-strength LC steels are available according to EN 10130 with A or B surface.

(Note: Surface B is available up to 2 mm in HC200LC).

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