



stelco.com



**STELMAX™ 100**  
Hot Rolled  
Ultra High Strength  
Steel (UHSS)

Stelco produces strong, high performance hot rolled grades of steel for the demanding needs of North American manufacturers. Our STELMAX™ product portfolio contains formable hot rolled steels engineered to meet the rising expectations of our customers.

To learn more about STELMAX™ 100 contact a Stelco Sales or Customer Technical Service Representative.



# STELMAX™ 100

## Hot Rolled Ultra High Strength Steel (UHSS)

### STELMAX™ 100 Applications

STELMAX™ 100 is a low carbon, microalloyed, fine grain steel that allows product designers to down gauge or replace heat treated material without compromising component performance.

This design flexibility can lead to considerable weight reduction and cost savings for roll formed, stamped or fabricated components and assemblies.

Typical applications include, but are not limited to, rail cars, crane booms, automotive frames and structural components, brackets, suspension and bumper components.

Stelco has on-site pickling facilities to remove surface oxide which is inherent during the hot rolling process.

### Size Availability

**Thickness\*** 0.125" - 0.375"  
3.2 mm - 9.5 mm

**Max Width\*** 60"  
1524 mm

\* Product width is a function of thickness — maximum width is not available across the full gauge range

\* Please inquire about products outside of these limits

### STELMAX™ 100 Product Performance

STELMAX™ 100 is manufactured using stringent composition and hot rolling temperature controls that minimize mechanical property variability while maximizing weldability and formability.

Stelco's Coilbox technology creates best-in-class through coil and cross coil mechanical property consistency.

STELMAX™ 100 is available in ASTM grades with the minimum mechanical property values outlined below:

Specification †	Minimum Yield Strength		Minimum Tensile Strength		Minimum Elongation (2")
	ksi	MPa	ksi	MPa	
ASTM A1011	100	690	110	760	14%
ASTM A1018					10%
ASTM A656**					12%

† Please inquire about comparable material specifications

\*\*Coil product supplied for conversion to plate specification

If required, heavy gauge STELMAX™ 100 can be supplied with a modified material test certification to a minimum yield strength of 100 ksi (690 MPa) in both transverse and longitudinal direction.

