

Structural Steel

Civil Engineering

What a steel grade designation means.

The number is strength. The letters are toughness and quality.

Designation	Meaning
S275	Yield around 275 N/mm ²
S355	Yield around 355 N/mm ² , common
JR, JO, J2	Rising toughness when cold
Z quality	Through-thickness ductility
Weathering steel	Forms a protective rust patina
Stainless	Corrosion resistance, higher cost

Educational reference. Grade, toughness and thickness limits are set by the steel design code and the specification.