

WEATHERING STEEL

► *Strength Point*

Feature	Weathering steel	Normal steel
Composition	► Low-carbon alloy steel with 0.2-0.5% copper, 0.5-1.25% chromium, and 0.5-1.25% nickel	Low-carbon steel with less than 0.25% carbon
Corrosion resistance	► 4-8 times more resistant to atmospheric corrosion than normal steel	Lower corrosion resistance
Strength	► Yield strength of 400-600 MPa, tensile strength of 500-700 MPa	Yield strength of 250-350 MPa, tensile strength of 400-500 MPa
Durability	► Expected lifespan of 50-100 years	Expected lifespan of 20-30 years
Maintenance requirements	► Very low maintenance requirements	Higher maintenance requirements
Cost	Higher cost than normal steel	► Lower cost than weathering steel
Additional paint coating	► Not required	Required
Appearance	Develops a rusty patina over time	► Maintains its original appearance
Applications	► Bridges, buildings, sculptures, landscaping	Structural beams, pipes, plates, sheets

Source : USA Conservation, SSAB, PTKP Analysis

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