



# SS Grade 95

## Ultra-high strength galvanized structural steel

### Product characteristics

ArcelorMittal has developed lighter, thinner, stronger and more durable steels, enabling the design of more efficient and cost-effective structures. One of these steels is SS Grade 95 (SS95), which is an ultra-high strength cold rolled and galvanized structural steel with a guaranteed minimum yield strength of 95ksi. This product exceeds the current highest strength structural steel specifications available by over 18% allowing significant opportunity for design optimization. Furthermore, this product has a guaranteed minimum total elongation of 8%, which allows for good cold forming performance and durability.



### Applications

Cold formed steel profiles are important components of many steel buildings, structures, solar farms, etc., and are commonly used as primary or secondary structural components. These profiles distribute surface loads to the building framework and foundations.

ArcelorMittal's SS95 is a cost-effective solution for longer, stronger, lighter profiles vs. conventional lower strength structural steels. SS95 offers good formability and multiple profiling options.

Potential applications include:

- > Building framing, structural profiles (purlins, rails, sleeves, rafters, cleats, bracing; and all related accessories)
- > Solar framing
- > Scaffolding, racking systems
- > Trailer components

### Fabrication

SS95 can be bent or profiled using conventional brake press and roll-forming equipment and is easily weldable with conventional technologies. Higher elongations make this grade suitable for tighter bend radii not possible with full hard/lower elongation grades.

### Properties

#### Guaranteed mechanical properties

Yield strength	Total elongation
95ksi (655Mpa) min	8% minimum

#### Chemistry

C (max)	Mn (max)	P (max)	S (max)
0.20	1.35	0.04	0.04

### Product availability

Gauge	Width	Galvanized coating weight
0.046 - 0.065" (1.17 - 1.65 mm)	Up to 59" (1500 mm)	G40-G115

*Size capability may vary by specification and facility. Please inquire for more specific information.*

### Benefits

- ✓ Lighter and stronger
  - Thickness reduction
  - Weight reduction with equivalent performance
  - New design opportunities (good formability)
  - Increase in load-bearing capacity
- ✓ Sustainable
  - Fully recyclable or reusable at the end of life
- ✓ Cost-effective
  - Cost savings through lightening
  - Increased payload or longer spans/fewer structural parts
- ✓ Durable
  - Galvanized coated for corrosion protection
  - Improved fatigue performance vs. full hard products



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