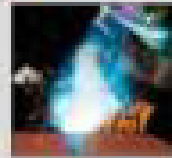


Benefits of High Strength Steel

-  Lower weight
-  Stronger structure
-  Simplified Production
-  Increased payload
-  Longer life
-  Environmental Benefits

Excellent Weldability



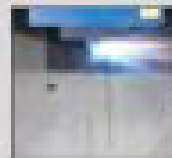
The excellent weldability of HSS means that all conventional methods of welding can be used.

Advanced High Strength Steels



The Advanced High Strength Steels combine high strength with good formability.

Thermal Cutting



Thermal cutting of Advanced High Strength Steels can be done with different methods. Laser, plasma or gas cutting being the most common.

Thickness Replacement - Rule Of Thumb

$$t_2 = t_1 \sqrt{R_{m1}/R_{m2}}$$

t_1 = thickness of mild steel

t_2 = thickness of high strength steel

R_{m1} = yield strength of mild steel

R_{m2} = yield strength of high strength steel

Example

$$6 \sqrt{350/700} = 4$$

MILD STEEL	HSS
4 mm	2.5 mm
6 mm	4 mm
8 mm	5 mm
10 mm	6 mm

