

Material Grades for Common SSI Applications-Form 20081

<u>Item</u>	<u>Grade</u>	<u>Notes</u>
Connection Plates	A36	3/16" or thicker
Connection Plates	A572 Gr 50	Non-standard, Eng to note on drawings, notify Purchasing at time of approval for large quantities
Angles	A36	Some dual certified for A529 or Gr 50 but if needed will need to be noted on drawings, same as plate
Channels	A36	
Wide Flange Sections	A992	
Rect/Square HSS	A500 Gr B	2x2x11 ga, 3x3x11 ga
Rect/Square HSS	A500 Gr C	4x4 or larger
Round HSS	A500 Gr C	
Round Rail Pipe	A500 Gr B	1 5/8" diameter Sch 10 and Sch 40
Square Rail Tube	A513	Type 1 (1 1/2" x 1 1/2"x 14 ga., 11 ga. & 1 1/4" x 1 1/4"x 14 ga., 11 ga.)
Kickplate	A1011 CS-B	Standard formed Kickplate cut from SH14X48X120
Light Gage C-Sections	A1011 CS Gr 50	
Catwalk Framing	A1011 CS Gr 50	
Smooth Plate	A36	
Diamond Plate	A786	
Structural Bolts	A325	1/2" diameter and above
Common Bolts (Stair Tread)	Grade 5	Require different nuts than Structural A563. Nuts are Common Grade, low carbon, zinc plated
Common Washers	Grade 5	
Threaded Rods	A193 Gr B7	
Structural Washers	F436	
Structural Nuts	A563	
Anchors	Dewalt Power-Stud	Dewalt Power-Stud+ SD1 Dewalt Screw-Bolt+ (Alternate for shallow concrete decks)
Roof Deck	ASTM A1008/A611	Cordeck/Canam
Aluminum Elbows and Tees	A356T6	
Aluminum 2301-CRB1	A319	Aluminum Cast Rail Attachment Bracket. ADC12(A384) is an acceptable alternative.