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| Material Grades for Common SSI Applications | | 5/7/2026 | - | 1 of 1 |
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| <u>Item</u> | <u>Grade</u> | <u>Notes</u> |
|----------------------------|-------------------|---|
| Rail Support (RS) Brackets | A1011 CS-B / A36 | A1011 CS-B is preferred if drop is available, but A36 is an acceptable alternative |
| 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 it will need to be noted on drawings, same as plate |
| Channels | A36 | |
| Wide Flange Sections | A992 | |
| Rectangle/Square HSS | A500 Gr B | 2x2x11 ga, 3x3x11 ga |
| Rectangle/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 14ga., 11 ga. & 1 1/4" x 1 1/4" x 14ga., 11ga.) |
| 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. |