



THE FOLLOWING STRUCTURAL MEMBERS ARE DESIGNATED AS AECS AS DEFINED IN THE 2016 AISC CODE OF STANDARD PRACTICE:

REFERENCE TABLE 10.1 OF 2016 AISC CODE OF STANDARD PRACTICE. AESS CATEGORIES SHALL BE AS INDICATED BELOW:

CATEGORY CHARACTERISTICS	AESS C CUSTOM ELEMENTS	AESS 4 SHOWCASE ELEMENTS	AESS 3 FEATURE ELEMENTS IN CLOSE VIEW	AESS 2 FEATURE ELEMENTS NOT IN CLOSE VIEW	AESS 1 BASIC ELEMENTS
1.1 SURFACE PREPARATION TO SSPC-SP 6	X	X	X	X	X
1.2 SHARP EDGES GROUND SMOOTH	X	X	X	X	X
1.3 CONTINUOUS WELD APPEARANCE	X	X	X	X	X
1.4 STANDARD STRUCTURAL BOLTS	X	X	X	X	X
1.5 WELD SPATTERS REMOVED	X	X	X	X	X
2.1 VISUAL SAMPLES	NOT REQUIRED	MOCK-UP REQUIRED	MOCK-UP REQUIRED	OPTIONAL	
2.2 ONE-HALF STANDARD FABRICATION TOLERANCES	X	X	X	X	
2.3 FABRICATION MARKS NOT APPARENT	X	X	X	X	
2.4 WELDS UNIFORM AND SMOOTH	X	X	X	X	
3.1 MILL MARKS REMOVED	X	X	X		
3.2 BUTT AND PLUG WELDS GROUND SMOOTH AND FILLED	X	X	X		
3.3 HSS WELD SEAM ORIENTED PER CONTRACT DOCUMENTS		X	X		
3.4 CROSS SECTIONAL ABUTTING SURFACE ALIGNED	X	X	X		
3.5 JOINT GAP TOLERANCES MINIMIZED	X	X	X		
3.6 ALL WELDED CONNECTIONS	X	X	X		
4.1 HSS SEAM NOT APPARENT		X			
4.2 WELDS CONTOURED AND BLENDED		X			
4.3 SURFACES FILLED AND SANDED		X			
4.4 WELD SHOW-THROUGH MINIMIZED		X			

ALUMINUM FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE ALUMINUM DESIGN MANUAL CHAPTER M. DIMENSIONAL TOLERANCES SHALL COMPLY WITH THE CODE OF STANDARD PRACTICE FOR FABRICATING AND ERECTING STRUCTURAL ALUMINUM.

FASTENERS SHALL BE 300 SERIES STAINLESS STEEL, CONDITION CW WITH A MINIMUM ULTIMATE TENSILE STRENGTH, FU=100KSI. WELDING SHALL CONFIRM TO AWS D1.2, STRUCTURAL WELDING CODE-ALUMINUM. FILLER ALLOYS TO BE COMPATIBLE FOR WELDING TO BASE MATERIAL ALLOYS.

DISSIMILAR MATERIALS SHALL BE ISOLATED FROM EACH OTHER USING ONE OF THE FOLLOWING: PAINT, PLASTIC SHIM, STAINLESS STEEL SHIM, SEALANT OR TAPE OR APPROVED ALTERNATE.

STEEL STUDS SHALL BE C-STUDS WITH A MINIMUM YIELD STRENGTH OF 33,000 PSI FOR 33 AND 43 MIL AND 50,000 PSI FOR 54, 68 AND 97 MIL THICKNESSES. GAUGE PLATE AND STRAPS SHALL HAVE A MINIMUM YIELD STRENGTH OF 30,000 PSI FOR 33 AND 43 MIL AND 50,000 PSI FOR 54, 68 AND 97 MIL THICKNESSES. COLD-FORMED FRAMING SHALL BE OF THE SIZE, GAUGE, AND SPACING SHOWN ON THE DRAWINGS.

THE AMERICAN IRON AND STEEL INSTITUTE AND STEEL STUD MANUFACTURES ASSOCIATION (SSMA) STANDARDS ARE USED IN THIS PACKAGE. PRODUCTS USED SHALL MEET OR EXCEED AISI STANDARDS AND ARE DESIGNATED BY THE FOLLOWING FOUR PART IDENTIFICATION CODE:

EXAMPLE: 362 S 162 = 33

362 INDICATES WEB DEPTH (IN 1/100 OF AN INCH)
S INDICATES SHAPE STYLE (S, T, U OR F)
162 INDICATES FLANGE WIDTH (IN 1/100 OF AN INCH)
33 INDICATES MATERIAL MIL THICKNESS (1 MIL = 1/1,000 INCH)

PROVIDE BRIDGING ADEQUATE TO DEVELOP THE FULL MOMENT CAPACITY OF STUDS IN CONFORMANCE WITH THE STEEL STUD MANUFACTURERS ASSOCIATION'S (SSMA) RECOMMENDATIONS.

ALL FIELD CUTTING OF STUDS MUST BE BY SAWING, SHEARING, OR PLASMA CUTTING. OTHER CUTTING METHODS OF COLD-FORMED MEMBERS ARE UNACCEPTABLE.

NO NOTCHING OR COPING OF STUDS IS ALLOWED, UNLESS NOTED OTHERWISE.

ENDS OF AXIAL LOAD BEARING WALL STUDS SHALL HAVE SQUARE END CUTS AND SHALL BE SEATED TIGHT AGAINST THE TRACKS WITH A MAXIMUM GAP TOLERANCE OF 1/8" BETWEEN THE STUD AND TRACK. FOR STUDS WITH A MATERIAL THICKNESS OF 68 MIL AND GREATER, THE MAXIMUM GAP TOLERANCE IS REDUCED TO 1/16".

SPlicing OF WALL STUDS OR HEADERS IS NOT ALLOWED, UNLESS NOTED OTHERWISE

ALL HEADERS/BUILT-UP BEAMS AND BLOCKING ARE TO BE CONSTRUCTED WITH UNPUNCHED MATERIAL ONLY

COLD-FORMED FRAMING CONNECTIONS SHALL BE AS FOLLOWS

FOR SCREWS, PROVIDE 3/4" MINIMUM CLEARANCE FROM ALL EDGES AND 3/4" MINIMUM CENTER TO CENTER SPACING

FASTENERS OF COMPARABLE SPECIFICATIONS AND LOAD CAPACITIES MAY BE SUBMITTED FOR APPROVAL

WELDING SHALL CONFORM WITH AWS D1.3.

[illegible]