



ICC ES ESR - 3503

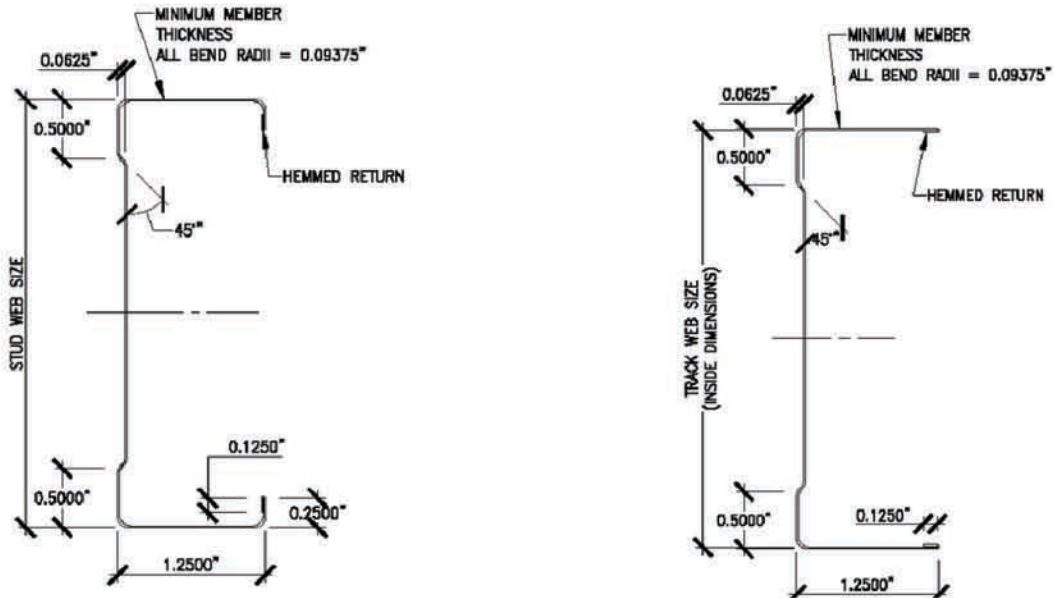


TABLE 1 - MEMBER THICKNESSES

STUD DESIGNATION ¹	TRACK DESIGNATION ¹	MINIMUM BASE-METAL THICKNESS (inch)	DESIGN THICKNESS (inch)	MINIMUM YIELD STRENGTH (ksi)
xxxPS125-15	xxxPT125-15	0.0150	0.0158	41
xxxPS137-24	xxxPT125-24	0.0236	0.0248	41

For SI: 1 inch = 25.4 mm, 1 ksi = 6.895 MPa.

¹xxx is the web size in ¹/₁₀₀ of an inch and is equal to 162 for 1⁵/₈ inches, 250 for 2¹/₂ inches, 362 for 3⁵/₈ inches, 400 for 4 inches, and 600 for 6 inches.

TABLE 2 - LIMITING HEIGHTS - COMPOSITE WALLS ^{1,2,3,4,5} (FT-IN)

STUD DESIGNATION	STUD SPACING (inches o.c.)	TRANSVERSE LOAD								
		5 psf			7.5 psf			10 psf		
		L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
162PS125-15	24	9'-9"	8'-6"	7'-9"	8'-6"	7'-6"	6'-9"	8'-9"	6'-9"	6'-3"
250PS125-15	24	-	10'-6"	9'-6"	-	9'-3"	8'-3"	-	8'-3"	7'-6"
362PS125-15	24	-	-	12'-9"	-	-	11'-3"	-	-	10'-0"
400PS125-15	24	-	-	12'-9"	-	-	11'-3"	-	-	10'-0"
162PS137-24	24	10'-9"	8'-9"	7'-9"	9'-3"	7'-9"	6'-9"	8'-6"	7'-0"	6'-0"
250PS137-24	24	14'-3"	12'-6"	11'-3"	12'-6"	11'-0"	9'-9"	11'-6"	10'-0"	9'-0"
362PS137-24	24	-	16'-3"	14'-6"	-	14'-3"	12'-6"	-	12'-9"	11'-6"
400PS137-24	24	-	17'-0"	14'-9"	-	14'-9"	12'-9"	-	13'-3"	11'-9"
600PS137-24	24	-	-	15'-9"	-	-	15'-9"	-	-	15'-9"

For SI: 1 inch = 25.4 mm, 1 psf = 47.88 Pa.

¹Gypsum wallboard, complying with Section 3.2.2, must be attached on both sides of the wall framing for the full height of the wall with the long dimension of the gypsum wallboard parallel to the studs.

²Placement of the joints in the gypsum sheathing must be in accordance with Sections 4.6.3 and 4.6.4 of GA-216 (Gypsum Association Application and Finishing of Gypsum Panel Products) or Section 7.5 of ASTM C840.

³End bearing of studs must be a minimum of 1 inch.

⁴Fasteners, complying with Section 3.2.3, must be used to fasten the gypsum wallboard to the studs and tracks. Fasteners must be spaced a maximum of 12 inches on center along the studs and tracks.

⁵Fasteners, complying with Section 3.2.3, must be installed on each side of the stud to fasten it to the tracks.