

**TABLE 3 Types and Weights of Metal Plaster Bases and Corresponding Maximum Permissible Spacing of Supports**

Type of Metal Plaster Base	Minimum Weight of Metal Plaster Base, lb/yd <sup>2</sup> (kg/m <sup>2</sup> )	Maximum Permissible Spacing of Supports Center to Center, in. (mm)				
		Walls (Partitions)			Ceilings	
		Wood Studs or Furring	Solid Partitions <sup>A</sup>	Steel Studs or Furring	Wood or Concrete	Metal
<i>U.S. Nominal Weights:</i>						
Diamond Mesh <sup>B</sup>	2.5 (1.4)	16 (406) <sup>C</sup>	16 (406)	16 (406) <sup>C</sup>	12 (305)	12 (305)
	3.4 (1.8)	16 (406) <sup>C</sup>	16 (406)	16 (406) <sup>C</sup>	16 (406)	16 (406)
Flat Rib	2.75 (1.5)	16 (406)	16 (406)	16 (406)	16 (406)	16 (406)
	3.4 (1.8)	19 (482)	24 (610)	19 (482)	19 (482)	19 (482)
Flat Rib (large opening)	1.8 (0.95)	24 (610)	24 (610)	24 (610)	16 (406)	16 (406)
	3/8 in. Rib	3.4 (1.8)	24 (610)	N/A <sup>D</sup>	24 (610)	24 (610)
3/4 in. Rib	4.0 (2.1)	24 (610)	N/A	24 (610)	24 (610)	24 (610)
	5.4 (2.9)	24 (610)	N/A	24 (610)	36 (914)	36 (914)
Welded Wire <sup>B</sup>	1.14 (0.62)	16 (406)	16 (406)	16 (406)	16 (406)	16 (406)
	1.95 (1.1)	24 (610)	24 (610)	24 (610)	24 (610)	24 (610)
Woven Wire <sup>B</sup>	1.4 (0.6)	24 (610)	16 (406)	16 (406)	24 (610)	16 (406)
	<i>Canadian Nominal Weights:</i>					
Diamond Mesh <sup>B</sup>	2.5 (1.4)	16 (406)	12 (305)	12 (305)	12 (305)	12 (305)
	3.0 (1.6)	16 (406)	12 (305)	12 (305)	12 (305)	12 (305)
	3.4 (1.8)	16 (406)	16 (406)	16 (406)	16 (406)	16 (406)
Flat Rib	2.5 (1.4)	16 (406)	12 (305)	12 (305)	12 (305)	12 (305)
	3.0 (1.6)	16 (406)	16 (406)	16 (406)	16 (406)	13 1/2 (343)
	3/8 in. Rib	3.0 (1.6)	19 (482)	N/A	16 (406)	16 (406)
	3.5 (1.9)	24 (610)	N/A	19 (482)	19 (482)	19 (482)
	4.0 (2.1)	24 (610)	N/A	24 (610)	24 (610)	24 (610)

<sup>A</sup> Where plywood is used for sheathing, a minimum of 1/8 in. (3.2 mm) separation shall be provided between adjoining sheets to allow for expansion.

<sup>B</sup> Metal plaster bases shall be furred away from vertical supports or solid surfaces at least 1/4 in. Self-furring lath meets furring requirements; except, furring of expanded metal lath is not required on supports having a bearing surface of 1 1/2 in. or less.

<sup>C</sup> These spacings are based on unsheathed walls. Where self-furring lath is placed over sheathing or a solid surface, the permissible spacing of supports shall be no more than 24 in. (610 mm).

<sup>D</sup> Not applicable.

**TABLE 4 Spans and Spacing of Cold-Rolled Channel Cross-Furring Members<sup>A, B, C, D, E, F</sup>**

Member Depth	Design Load, 12 psf (575 Pa)	Allowable Span, Main Runners or Supports Ft.-in. (mm)	
		Simple Span	Two or More Spans <sup>G, H</sup>
3/4 (19)	13.5 (343)	2-9 (840)	3-5 (1040)
	16 (406)	2-7 (790)	3-3 (990)
	19 (483)	2-7 (740)	3-0 (910)
	24 (610)	2-3 (690)	2-10 (860)
1 1/2 (38)	13.5 (343)	4-6 (1370)	5-8 (1730)
	16 (406)	4-3 (1300)	5-5 (1650)
	19 (483)	4-0 (1220)	5-1 (1550)
	24 (610)	3-8 (1120)	4-9 (1450)

<sup>A</sup> Bare metal thickness of cold-rolled members shall not be less than 0.0538 in. (1.367 mm).

<sup>B</sup> Inside corner radii shall not be greater than 1/8 in. (3.17 mm).

<sup>C</sup> Spans based on upper flange of cross-furring laterally unbraced.

<sup>D</sup> Maximum deflection limited to 1/360<sup>th</sup> of span length unbraced.

<sup>E</sup> Steel yield stress,  $F_y$ , shall not be less than 33 000 psi (228 MPa).

<sup>F</sup> Tabulated spans apply only to cross-furring with webs oriented vertically.

<sup>G</sup> "Two or more" spans refers to two or more continuous, equal spans.

<sup>H</sup> For the "two or more" span conditions, listed spans represent the center-to-center distance between adjacent supports.

exterior walls to receive lath and plaster. Place the bottom edge of the foundation weep screed not less than 1 in. (25 mm) below the joint formed by the foundation and framing. The nose of the screed shall be placed not less than 4 in. (102 mm) above raw earth or 2 in. (51 mm) above paved surfaces. The weather resistive barrier and lath shall entirely cover the

vertical attachment flange and terminate at the top edge of the nose or ground flange.

## 8. Keywords

8.1 ceiling; expansion control joints; lath; plaster; screed; suspended ceiling; walls