

SINGLE-PLY GYPSUM BOARD APPLIED PARALLEL (||) OR PERPENDICULAR (⊥) TO FRAMING MEMBERS

1997 Uniform Building Code

NAIL OR SCREW FASTENINGS WITHOUT ADHESIVES (MAXIMUM CENTER TO CENTER IN INCHES)

THICKNESS OF GYPSUM BOARD (INCH)	PLANE OF FRAMING SURFACE	MAXIMUM SURFACE OF FRAMING MEMBER ¹ (CENTER TO CENTER INCHES)	LONG DIMENSION OF GYPSUM BOARD SHEETS IN RELATION TO DIRECTION OF FRAMING MEMBERS		MAXIMUM SPACING OF FASTENERS ¹ (CENTER TO CENTER INCHES)		SIZE OF NAILS - APPLICATION TO WOOD FRAMING
				⊥	NAILS ²	SCREWS ³	
1/2	Horizontal	16	P	P	7	12	13 gage, 1-3/8" long, 19/64" head; 0.098 diameter, 1-1/4" long, annular-ringed; 5d cooler nail, 0.086" diameter, 1-5/8" long, 15/64" head or gypsum board nail, 0.086" diameter, 1-58" long, 9/32" head.
		24	NP	P			
	Vertical	16	P	P	8	16	
		24	P	P		12	
5/8	Horizontal	16	P	P	7	12	
		24	NP	P			
	Vertical	16	P	P	8	16	
		24	P	P		12	

NAIL OR SCREW FASTENINGS WITH ADHESIVES (MAXIMUM CENTER TO CENTER IN INCHES)

THICKNESS OF GYPSUM BOARD (INCH)	PLANE OF FRAMING SURFACE	MAXIMUM SURFACE OF FRAMING MEMBER ¹ (CENTER TO CENTER INCHES)	LONG DIMENSION OF GYPSUM BOARD SHEETS IN RELATION TO DIRECTION OF FRAMING MEMBERS		MAXIMUM SPACING OF FASTENERS ¹ (CENTER TO CENTER INCHES)		SIZE OF NAILS - APPLICATION TO WOOD FRAMING
				⊥	NAILS ²	SCREWS ³	
1/2 or 5/8	Horizontal	16	P	P	16	16	Same as above for 1/2" and 5/8" gypsum board, respectively
		24	NP	P	12	16	
	Vertical	24	P	P	16	24	

Horizontal refers to application to ceilings. Vertical refers to application to walls. || refers to parallel. ⊥ refers to perpendicular.

P = Permitted. NP = Not Permitted.

1. A combination of fasteners consisting of nails along the perimeter and screws in the field of the gypsum board may be used with the spacing of the fasteners shown in the table.
2. Nails for wood framing shall be long enough to penetrate wood members not less than 3/4"
3. Screws shall Type S or W per ASTM 1002 and be long enough to penetrate wood framing not less than 5/8" and through metal framing not less than 3/8".
4. On ceiling applications to receive a water-based texture material, the minimum gypsum board thickness shall be increased from 3/8 inch to 1/2 inch for 16-in on center framing, and from 1/2 inch to 5/8 inch for 24-in on center framing or 1/2-inch sag resistant gypsum ceiling board shall be used.
5. 5/8 inch thick Type X gypsum board for garage ceilings beneath habitable rooms shall be installed perpendicular to the ceiling framing and shall be fastened at maximum 6 inches o.c. by minimum 1-7/8 inches 6d coated nails or equivalent drywall screws.
6. Application requirements based upon the 2003 International Residential Code.