1/2" HIGH STRENGTH™ BRAND CEILING BOARD



GENERAL INFORMATION

1/2" High Strength Ceiling
Board gives manufactured
home builders an alternative
to 5/8" wallboard for ceiling
construction. A specially
formulated core provides
superior sag resistance
required for parallel installation to trusses spaced 24"
o.c., especially when waterbased ceiling textures are
applied. Since 1/2" High
Strength weighs less than
5/8" wallboard, the lower
weight means additional
bottom-line savings.

FEATURES/BENEFITS

- Meets HUD Manufactured Home Construction and Safety Standards — promotes security for the homeowner.
- Lower weight of 1/2" wallboard, compared with 5/8", reduces the total weight of the unit and provides easier handling.
- 1/2" High Strength Ceiling
 Board can be used in place of
 5/8" wallboard when applied
 with foam adhesive to the
 ceiling trusses. The special
 core exhibits sag-resistant
 properties that allow for
 parallel installation to trusses
 spaced 24" o.c. It is approved
 for non-fire rated ceiling
 assemblies where trusses are
 spaced no wider than 24" o.c.
 and ceiling is finished with
 water based spray textures.

SPECIFICATIONS

Thickness: 1/2"

ASTM permissible variations: In the nominal thickness of +/- 1/64" (0.4 mm) with local variations of +/- 1/32" (0.8 mm) from the nominal thickness.

Width: 48" and 54" ASTM permissible variation: +0", -3/32" (2.4 mm)

Lengths: 6'-16' (1/2" increments) ASTM permissible variation: +/- 1/4" (6.4 mm)

Corners: Square

ASTM permissible variation: +/- 1/8" (3.2 mm) in the full width of the board

Edges: Tapered

Weight: Approx. 1.7 lbs./sf

SAG RESISTANCE TECHNICAL DATA

The sag resistance for High Strength Ceiling Board is equivalent to that of 5/8" type X wallboard. Under the strict ASTM C 473 Physical Testing for Humidified Deflection, National Gypsum 1/2" High Strength Ceiling Board exhibited average sag-resistant qualities equivalent to 5/8" type X wallboard. In a test witnessed by an independent testing agency, 1/2" High Strength Ceiling Board exhibited an average sag of only 0.033" (approximately 1/32") on joists spaced 24" o.c. with spray texture applied. The test was conducted over one month at temperatures between 66° and 79°F with a relative humidity between 30% and 60%.

ASTM E 84 Surface Burning Characteristics

(Fire Hazard Classification) Flame Spread: 15 Smoke Developed: 0



GENERAL APPLICATION

Note: If blown-in cellulose insulation is used, take care to follow insulation manufacturer's specifications on addition of water. Excess moisture in this insulation can cause 1/2" High Strength Ceiling Board to sag.

Foam Method: After ceiling trusses are placed on the gypsum board, foam adhesive should be applied as recommended per the manufacturer's instructions.

Staple Method: Staples (16 gauge with 1" crown and 1-1/2" legs) must be spaced 4" o.c. around the perimeter of the board, either parallel or stitched, and 1/4" in from both ends. Screws in the field of the board should be 1-1/4" to 1-1/2" drywall screws with maximum spacing of 12" o.c. Tools must be properly adjusted so screws, nails and staples are driven straight and flush with the board surface, without breaking the face paper of the gypsum board.

Insulation should not exceed 2.2 lbs./sq. ft. (10.7 kg/m²).

Note: To minimize foam leakage, the back of each joint may be taped with 3/4" masking tape prior to applying foam.

For specific applications and shear values, please refer to section titled "Shear Tests."

TOUCH-UP

Fill gouges, nicks, hammer marks, etc., with joint treatment compound. Sand smooth before applying final surface texture or finish. Panel replacement may be necessary if damage cannot be corrected satisfactorily.