

## 4-Way® Floor Deck



Homasote 4-way Floor Decking is a structural, noise-deadening subfloor and insulating, carpet underlayment made from multiple plies of Homasote® structural building board permanently bonded under extreme pressure with a water-resistant glue, trimmed to size and shaped with tongue-and-groove to form floor decking panels. 4-Way is used as a structural sub-flooring in low-rise condominium and apartment developments, motels, nursing homes, professional buildings and private homes, especially where noise control is a prime consideration..

### Advantages

1. Laboratory tested for acoustical ratings using ISO, R140 and HUD test methods
2. Resilient surface provides in-place, wall-to-wall underlayment that will protect carpeting and prolong life beyond the ability of concrete or hardwood surfaces
3. Moisture-resistant and protected against termites, rot and fungi
4. Annular thread nails, (3" long, 9 ga., annular threaded shank, 3/8" head), are used for glue-nail application
5. Adequately supports uniform live loads up to 100 lbs./sq. ft. based on a maximum deflection of 1/360 of the span

### Sizes & Weights (nominal)

Panel thickness	Size	Weight	Joists
1-11/32"	4' x 8'	3.0 lb./sq. ft.	16" o.c.
1-3/4"	4' x 8'	4.1 lb./sq. ft.	24" o.c.

NOTE: Finished T&G on long edges and square on ends. Estimate 32 panels (4' x 8') per 1000 sq. ft. of floor.

### Typical Physical Properties

Density:	26-28 lb./ft.3
Tensile, parallel to surface (min.):	450-700 psi
Transverse, MOR (min.):	750-1000 psi
Stiffness, MOE (min.):	86,000 psi
Hardness, Janka Ball (min.):	230 lb.
Water absorption by volume (max.): 2 hrs. immersion	7%
Expansion from 50%-90% relative humidity (max.):	0.25%
R-Value (1-11/32"):	3.27
R-Value (1-3/4"):	4.46
Flame Spread:	Class III (or C)

### Other Test Data

1 Hour Full-Scale Fire Performance, Tested in Accordance with ASTM E119-98 by Southwest Research Institute, Project No. 01-2271-001; 1-3/4" 4-Way.

1 Hour Full-Scale Fire Performance, Tested in Accordance with ASTM E119 by Factory Mutual Corp., Project No. 16738.40; 1-11/32" 4-Way.

NAHB Research Foundation, Glue-nail Structural Tests, March, 1971.

S.B. Barnes & Assoc., Horizontal Diaphragm Test, 1972

Fire rated: 1 hr. (per Factory Mutual Test)

Design F.C.: 77 1 hr.(S/N 16738-40)

### Code Compliance

FHA Materials Release 1150c