



HardieBacker® ¼" Cement Board With MoldBlock® Technology

Product Use

HardieBacker® ¼" cement board with MoldBlock® technology is designed for use as a tile backer substrate for floor and countertop applications. It provides an exceptional bonding surface for tile, while protecting against moisture damage and mold growth. HardieBacker ¼" cement boards 3' x 5' sheet features the exclusive EZ Grid® recessed fastener pattern for even easier installation. It provides more compressive and flexural strength than any backerboard on the market and is the lightest cement board available. HardieBacker ¼" cement board may be installed over resilient flooring.

Basic Composition

HardieBacker cement board is composed of Portland cement, ground sand and selected additives. It contains no asbestos, gypsum, paper facing, glass fibers or formaldehyde.

Note: HardieBacker cement board does not contain any gypsum, which is known to disintegrate in wet areas.

Product Specs

Sheet sizes: 3' x 5' (with EZ Grid® recessed fastener pattern)
4' x 8'

Thickness: ¼"

Weight: 1.9 lbs/psf (9.3kg/m²)

Complies with ASTM C1288 and ANSI A118.9

Mold Resistance

HardieBacker ¼" cement board with MoldBlock technology passes both industry standard mold tests with a perfect score. In independent tests, HardieBacker cement board achieves a 0 on the ASTM G21 (best possible score for mold resistance) and a 10 on the ASTM D3273 (best possible score against mold growth).

Flexural Strength at Equilibrium Moisture Content

(ASTM C1185)

2100 psi (14 MPa)

Compressive Strength at Equilibrium Moisture Content

(ASTM D2394 steel plate substrate)

7000 psi (48 MPa)

Thermal Values (ASTM C177)

Thermal Conductivity: k-value 7.80 Btu/(ft² x h x °F)

Thermal Resistance: R-value 0.13 ft² x h x °F/Btu

Non-Combustibility

When tested in accordance with ASTM Method E-136, the product is recognized as a non-combustible building material in ESR-2280.

Surface Burning Characteristics

When tested in accordance with ASTM Method E-84:

Flame Spread: 0

Fuel Contributed: 0

Smoke Developed: 5

Fire Rated Assemblies

HardieBacker ¼" cement board can be used as a component in one-hour fire-resistive construction. Consult James Hardie Technical Services at 1-800-942-7343.

Warranty

Backed by a lifetime limited product warranty. Copies are available wherever James Hardie® products are sold or from James Hardie Building Products. A copy of the warranty is also available at HardieBacker.com.



JamesHardie



HardieBacker® 500 Cement Board With MoldBlock® Technology

Product Use

HardieBacker® 500 cement board with MoldBlock® technology is designed for wall and ceiling applications for use as a tile backer substrate or as a replacement for regular drywall. It's the only cement backerboard with a smooth surface that may be painted, textured or wallpapered. HardieBacker cement board provides more compressive and flexural strength than any backerboard on the market and is the lightest cement board available. HardieBacker 500 cement board may also be used for floor tile applications, but if additional height is not needed for transition, we recommend using HardieBacker 500 cement board.

Basic Composition

HardieBacker cement board is composed of Portland cement, ground sand and selected additives. It contains no asbestos, gypsum, paper facing, glass fibers or formaldehyde.

Note: HardieBacker cement board does not contain any gypsum, which is known to disintegrate in wet areas.

Product Specs

Sheet sizes: 3' x 5' & [REDACTED]

Thickness: nominal ½" (.42" actual)

Weight: 2.6 lbs/psf (12.7kg/m²)

Complies with ASTM C1288 and ANSI A118.9

Mold Resistance

HardieBacker 500 cement board with MoldBlock technology passes both industry standard mold tests with a perfect score. In independent tests, HardieBacker cement board achieves a 0 on the ASTM G21 (best possible score for mold resistance) and a 10 on the ASTM D3273 (best possible score against mold growth).



WARNING – AVOID BREATHING SILICA DUST: James Hardie products contain respirable crystalline silica, which is known to the State of California to cause cancer and is considered by IARC and NIOSH to be a cause of cancer from some occupational sources. Breathing excessive amounts of respirable silica dust can also cause a disabling and potentially fatal lung disease called silicosis, and has been linked with other diseases. Some studies suggest smoking may increase these risks. During installation, use fiber cement shears for cutting or, use score & snap technique. During clean-up, use HEPA vacuums or wet cleanup methods—never dry sweep. For further information, refer to our installation instructions and Material Safety Data Sheet available at www.jameshardie.com or by calling 1-800-9HARDIE (1-800-942-7343). **FAILURE TO ADHERE TO OUR WARNINGS, MSDS, AND INSTALLATION INSTRUCTIONS MAY LEAD TO SERIOUS PERSONAL INJURY OR DEATH.**

Flexural Strength at Equilibrium Moisture Content

(ASTM C1185)

1700 psi (12 MPa)

Compressive Strength at Equilibrium Moisture Content

(ASTM D2394 steel plate substrate)

6500 psi (45 MPa)

Thermal Values (ASTM C177)

Thermal Conductivity: k-value 20.07 Btu/hr-ft²-°F

Thermal Resistance: R-value 0.05 hr-ft²-°F/Btu

Non-Combustibility

The product is recognized as a non-combustible building material in ESR-2280.

Surface Burning Characteristics

When tested in accordance with ASTM Method E-84:

Flame Spread: 0

Fuel Contributed: 0

Smoke Developed: 5

Fire Rated Assemblies

HardieBacker 500 cement board may be used as a component in one-hour fire-resistive wall construction. Consult James Hardie Technical Services at 1-800-942-7343.

Warranty

Backed by a lifetime limited product warranty. Copies are available wherever James Hardie® products are sold or from James Hardie Building Products. A copy of the warranty is also available at HardieBacker.com.