

Description

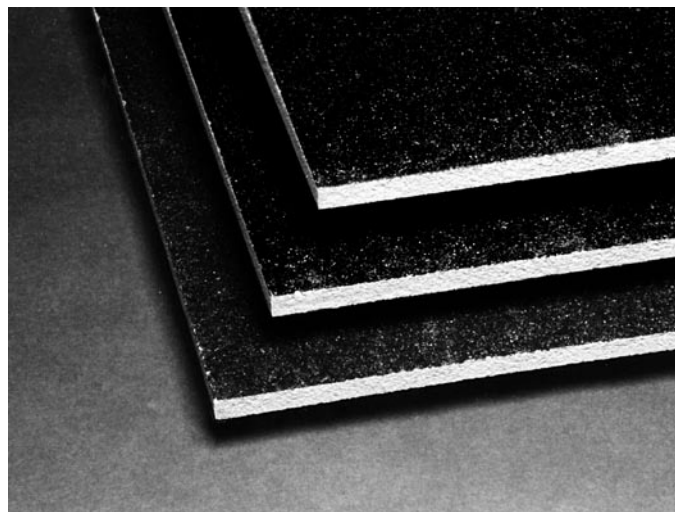
RetroPlus Roof Board is a high-density roofing board made of expanded perlite and cellulosic fibers. To resist water absorption, the board is formed with components to block water penetration. The top (black) surface is sealed with TopLoc® coating to provide a strong surface for bonding bituminous membranes. RetroPlus Roof Board meets the physical requirements of ASTM C 728, Type 2.

Use

RetroPlus is used in applications that require improved durability and strength over ½" Retro-Fit Board®. RetroPlus is used as the top cover board in a multi-layer insulation system during new construction. For re-roofing applications, it is used as a separator board or as a recover board with additional insulation value and fire resistance. As an upgrade to Wood Fiber Boards, RetroPlus may be applied with hot asphalt, adhesives or mechanical fasteners. RetroPlus has numerous FM Global® fire- and wind-resistant systems and is also approved for use in Underwriters Laboratories Inc. Class A constructions. Johns Manville continues to pursue improved system codes including cold-applied and single ply.

Advantages

- Improved durability over ½" Retro-Fit Board
- High compression and tensile strength compared to wood fiber board
- Low moisture content and water resistance compared to wood fiber board
- Superior fire resistance
- Sustainable product with high postconsumer recycled content



Energy and the Environment

| | | |
|--------------|---------------------------|-----|
| LEED® | Recycled Content | |
| | Postindustrial: | 1% |
| | Postconsumer: | 40% |
| | Total: | 41% |
| | Producing Location | |
| | Rockdale, IL | |

Typical Physical Properties*

| | Values | Test Method |
|--------------------------------|----------------------|-------------|
| Board Density | 14.5 pcf (225 kg/m³) | ASTM C 209 |
| Compression Strength | 60 psi (414 kPa) | ASTM C 165 |
| Laminar Tensile Strength | 19 psi (131 kPa) | ASTM C 209 |
| Break Load | 10 lb | ASTM C 203 |
| Flexural Strength | 225 psi (1,551 kPa) | ASTM C 203 |
| Moisture Content | 2 (wt %) | |
| Water Absorption (2 hr) | 2.5 (vol %) | ASTM C 209 |
| Linear Expansion | 0.5% max | ASTM C 209 |
| Flame Spread | 35 | ASTM E 84 |
| Smoke Developed | 10 | ASTM E 84 |

Thermal Performance

| Thickness (nom.) | | C-Value (Conductance) | | R-Value (Resistance) | |
|------------------|------|-----------------------|---------|----------------------|---------|
| in. | cm | BTU/(hr•ft²•°F) | W/m²•°C | (hr•ft²•°F)/BTU | m²•°C/W |
| ½ | 1.27 | 0.76 | 4.3 | 1.30 | 0.22 |

Sizes

All sizes are ½" (1.27 cm) nominal thickness

4' x 4' (1.22 m x 1.22 m) Boards – 9 lb (4.08 kg) nominal board weight; 96 boards per pallet; 15.4 squares (143 m²) per pallet

4' x 8' (1.22 m x 2.44 m) Boards – 18 lb (8.16 kg) nominal board weight; 96 boards per pallet; 30.8 squares (285 m²) per pallet

2' x 4' (61 cm x 1.22 m) Boards – 4.5 lb (2.04 kg) nominal board weight; 192 boards per pallet; 15.4 squares (143 m²) per pallet

Refer to the Material Safety Data Sheets and product labels prior to using this product.