

Product Description:

DEXcell® Cement Roof Board provides an exceptionally hard, durable mold and moisture-resistant cement panel that withstands prolonged exposure to moisture. Its composition of Portland cement and lightweight aggregate with heavy duty fiberglass-mesh facers makes it an excellent fire and thermal barrier and/or cover board for use in low-slope commercial roofing systems. It enhances the durability of the entire roofing system when used as cover board in single-ply roofing systems. It provides increased fire safety and acoustical enhancement. It also serves as a substrate for a vapor retarder and/or continuous substrate for the application of roofing membranes.



Packaging:

DEXcell® Cement Roof Board is available in standard thicknesses of 7/16" and 5/8" x 4' x 4' and 4' x 8' panels.

Features:

- Fire Performance: Meets Factory Mutual (FM) Class 1 and Underwriters Laboratories (UL) Class A fire ratings for unlimited slope in fire barrier applications per UL 790.
- Achieves UL GREENGUARD Gold Certification for low chemical emissions into indoor air during product usage.
- Moisture and Mold: Integral water-resistant core provides moisture and mold resistance. Scored a maximum "10" for mold resistance on ASTM D3273.
- Covered component under the IB Total Systems Warranty

Application:

DEXcell® Cement Roof Boards can be installed over approved substrates in mechanically attached, induction attached, fully adhered roof assemblies. As a parapet, fire, or thermal barrier roof board, DEXcell® Cement Roof Board has an unlimited slope noncombustible. Refer to IB Specifications and Construction Details for additional installation instructions.

Moisture Management:

Keep DEXcell® Cement Roof Board panels dry before, during and after installation. DEXcell® Cement Roof Board should not be installed during rains, heavy fogs, frost, and any other conditions that deposit moisture on the surface of the board. Apply only as much DEXcell® Cement Roof Board that can be covered by final roof membrane system in the same day. Avoid exposure to moisture from leaks or condensation. Plastic or poly packaging applied at the plant to protect board during rail or other transit should be removed upon receipt to prevent condensation or trapping of moisture, which may cause application problems.

Approvals:

- ASTM C1325
- UL 790 Classification
- FM Approved
- Meets FM Class 1
- FM Standards 4450 and FM 4470

Typical Physical Properties*		
Property	7/16"	5/8"
Thickness, nominal	7/16"	5/8"
Weight, nominal, lb. / sq. ft.	2.1	3.0
¹ R-value	.28	.40
² Flexural Strength, parallel, psi min.	>750	>750
³ Flute Spanability	12"	12"
⁴ Permeance, perms	<5	<5
⁵ Linear Variation with Change in Moisture, %, per D1037	<0.07	<0.07
⁶ Water Absorption, % max, per ASTM C473	<10	<10
Compressive Strength, psi, nominal	1250	1250
⁷ Coefficient of thermal expansion, inches/inch/°F	4.5 x 10 ⁻⁶	4.5 x 10 ⁻⁶
⁸ Flame Spread	5	5
⁸ Smoke Development	0	0
Bending Radius	5'	5'
1. Tested in accordance with ASTM C518 (heat flow meter). 2. Tested in accordance with ASTM C947 3. Tested in accordance with ASTM E661. 4. Tested in accordance with ASTM E96 (dry cup method). 5. Tested in accordance with ASTM D1037. 6. Tested in accordance with ASTM C473. 7. Tested in accordance with ASTM E831 8. Numerical ratings are not intended to reflect performance under actual fire conditions. Flame spread index of ≤ 75 and smoke development. * Physical properties shown are based on data obtained under controlled conditions and are subject to normal manufacturing tolerances.		

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