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TECHNICAL DATA SHEET

# Rockwool Cavityrock

Manufacturer: ROCKWOOL

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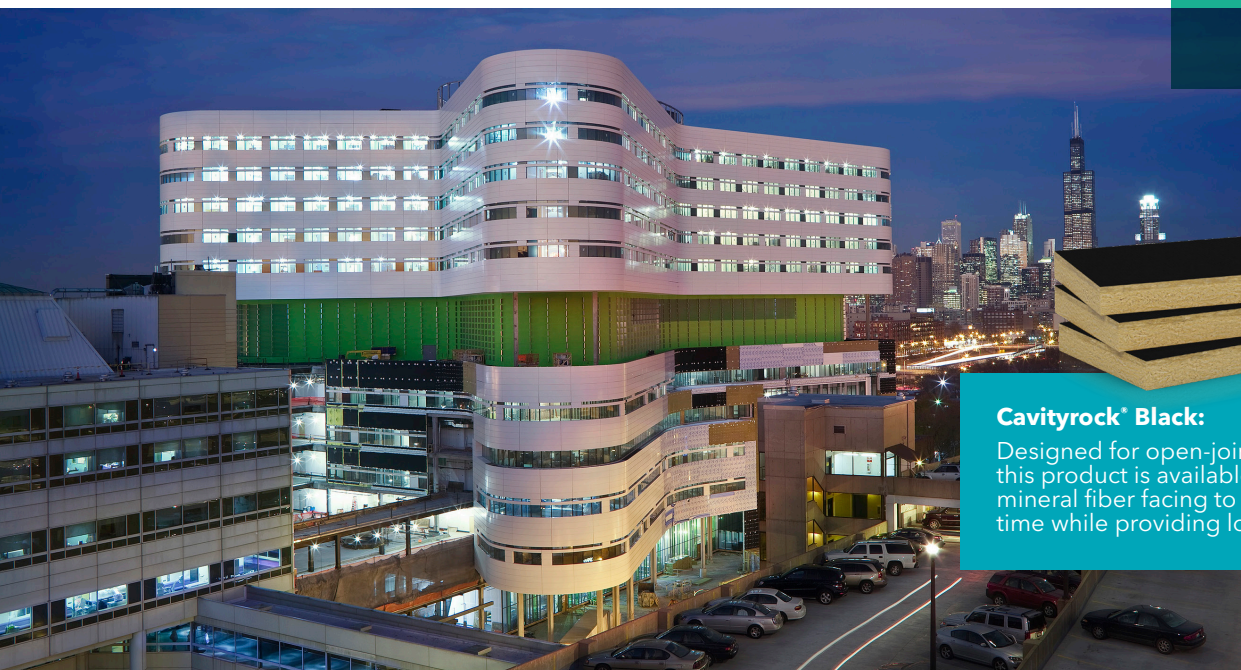
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# Cavityrock®

Exterior insulation for cavity wall  
and rainscreen applications



Rush University Medical Center, Chicago, IL

ROCKWOOL Cavityrock® is a stone wool insulation board designed for exterior cavity wall and rainscreen applications. Designed as either a mono density (<2.5") or dual density ( $\geq 2.5$ ") product, Cavityrock provides improved impact resistance and conformance to wall irregularities.

Compatible with numerous engineered cladding attachment systems, Cavityrock® is noncombustible and fire resistant, and will not develop toxic smoke or promote flame spread even when directly exposed to fire. Approved for use in many NFPA 285-compliant designs, Cavityrock® is an important component of fire-resilient exterior wall systems when used as a continuous insulation.

Cavityrock® also offers energy efficiency with reliable thermal performance, improved acoustic comfort, and is moisture resistant to maintain insulating value for the long-term.

Also available in a black mat facer finish for open-joint cladding systems, Cavityrock® Black combines your insulation install with masking in a single step, reducing installation time and material cost to achieve your desired design aesthetic.

Learn more at [rockwool.com/products/cavityrock/](https://rockwool.com/products/cavityrock/)

## Cavityrock® Black:

Designed for open-joint cladding systems, this product is available with a bonded black mineral fiber facing to reduce installation time while providing long-term UV stability.

## Fire performance

Noncombustible, Cavityrock® can slow the spread of fire, and resists the transfer of heat in a wall assembly that causes layers on the other side to begin burning or smoking.



**ROCKWOOL Cavityrock® is a stone wool insulation board designed for exterior cavity wall and rainscreen applications. Compatible with numerous cladding attachment systems, Cavityrock® is noncombustible and available with a black mineral fleece facing for open-joint cladding systems.**

|                                                 | Performance                                                                                                                                                                                                                                                | Test standard                                                               |      |                               |        |        |         |         |         |                   |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|------|-------------------------------|--------|--------|---------|---------|---------|-------------------|
| Compliance                                      | Mineral fiber block and board thermal insulation - Type IVB compliant<br>Mineral fiber thermal insulation for buildings, Type 1 compliant<br>MEA approval, New York City approval                                                                          | ASTM C612<br>CAN/ULC S702<br>236 - 05 - M                                   |      |                               |        |        |         |         |         |                   |
| Reaction to fire                                | Flame spread index = 0; Smoke developed index = 0<br>Flame spread rating = 0; Smoke developed classification = 0<br>Combustibility of materials at 750 °C - Noncombustible<br>Determination of non-combustibility of building materials - Non-combustible  | ASTM E84 (UL 723) <sup>1</sup><br>CAN/ULC S102<br>ASTM E136<br>CAN/ULC S114 |      |                               |        |        |         |         |         |                   |
| Reaction to fire<br>(with black mat facer)      | Flame spread index = 15; Smoke developed index = 0<br>Flame spread rating = 15; Smoke developed classification = 5                                                                                                                                         | ASTM E84 (UL 723)<br>CAN/ULC S102                                           |      |                               |        |        |         |         |         |                   |
| Monolithic density<br>(thickness: 1", 1.5", 2") | > 4.3 lbs/ft³ (>69 kg/m³) <sup>†</sup><br><sup>†</sup> Density will change with thickness, please contact ROCKWOOL for more information                                                                                                                    | ASTM C303                                                                   |      |                               |        |        |         |         |         |                   |
| Density (thickness ≥ 2.5")                      | Dual density - 6.2 lbs/ft³ (100 kg/m³) outer layer and 3.8 lbs/ft³ (61 kg/m³) inner layer                                                                                                                                                                  | ASTM C303                                                                   |      |                               |        |        |         |         |         |                   |
| Dimensional stability                           | Linear shrinkage = 0.1 % @ 1200 °F (649 °C)                                                                                                                                                                                                                | ASTM C356                                                                   |      |                               |        |        |         |         |         |                   |
| Corrosion resistance                            | Corrosiveness to aluminum - Passed<br>Corrosiveness to steel - Passed                                                                                                                                                                                      | ASTM C665<br>ASTM C1617                                                     |      |                               |        |        |         |         |         |                   |
| Thermal resistance                              | R-Value / inch @ 75 °F                      4.2 hr.ft².F/Btu<br>RSI value / 25.4 mm @ 24 °C                0.74 m²K/W                                                                                                                                      | ASTM C518 (C177)                                                            |      |                               |        |        |         |         |         |                   |
| Reaction to moisture                            | Water vapor sorption - 0.01 vol%<br>Water vapor transmission (2.48 in. thickness evaluated), desiccant method - 35 perm (2005 ng/Pa.s.m²)<br>Determination of fungi resistance - Passed                                                                    | ASTM C1104<br>ASTM E96<br>ASTM C1338                                        |      |                               |        |        |         |         |         |                   |
| Reaction to moisture<br>(with black mat facer)  | Water vapor transmission (3.38 in. thickness evaluated), desiccant method - 43 perm (2435 ng/Pa.s.m²)<br>Determination of fungi resistance - Passed                                                                                                        | ASTM E96<br>ASTM C1338                                                      |      |                               |        |        |         |         |         |                   |
| Dimensions                                      | Product is available in 1" (25.4 mm) to 6" (152.4 mm) in 1/2" increments, 7" (177.8 mm), 8" (203.2 mm)<br>24" x 48" (610 mm x 1219 mm) and 16" x 48" (406 mm x 1219 mm), with 32" x 48" (812.8 mm x 1219 mm)<br>available in 3", 4", 5" and 6" thicknesses |                                                                             |      |                               |        |        |         |         |         |                   |
| Dimensions<br>(with black mat facer)            | Product is available in 2" (50.8 mm) to 4" (101.6 mm) in 1/2" increments, 5" (127 mm), 6" (152.4 mm)<br>24" x 48" (610 mm x 1219 mm) and 16" x 48" (406 mm x 1219 mm), 5" (127 mm) and 6" (152.4 mm)<br>available only in 24" x 48" (610 mm x 1219 mm)     |                                                                             |      |                               |        |        |         |         |         |                   |
| Acoustical performance                          | Thickness                                                                                                                                                                                                                                                  | NRC                                                                         | SAA  | Sound absorption coefficients |        |        |         |         |         | ASTM C423         |
|                                                 |                                                                                                                                                                                                                                                            |                                                                             |      | 125 Hz                        | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz |                   |
|                                                 | 2.0"                                                                                                                                                                                                                                                       | 1.05                                                                        | 1.04 | 0.27                          | 0.76   | 1.19   | 1.13    | 1.07    | 1.04    |                   |
|                                                 | 3.0"                                                                                                                                                                                                                                                       | 1.05                                                                        | 1.06 | 0.80                          | 1.04   | 1.10   | 1.03    | 1.03    | 1.04    |                   |
|                                                 | 4.0"                                                                                                                                                                                                                                                       | 1.10                                                                        | 1.12 | 1.00                          | 1.15   | 1.15   | 1.08    | 1.09    | 1.08    |                   |
|                                                 | 5.0"                                                                                                                                                                                                                                                       | 1.10                                                                        | 1.09 | 1.25                          | 1.08   | 1.11   | 1.06    | 1.07    | 1.05    |                   |
| 6.0"                                            | 1.05                                                                                                                                                                                                                                                       | 1.03                                                                        | 1.05 | 0.95                          | 1.06   | 1.07   | 1.08    | 1.05    |         |                   |
| UV stability<br>(with black mat facer)          | Determination of changes in color fastness: achieved rating of 5/5 at 250 hr. and 500 hr. exposure, no perceptible change in color, and a rating of 4/5 at 750 hr. and 1,000 hr. exposure.                                                                 |                                                                             |      |                               |        |        |         |         |         | ISO 105-AO2: 1993 |

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Declare.



<sup>1</sup> Meets Class A requirements for flame spread and smoke-developed indices as per IBC  
\* Master Format 1995 Edition \*\* Master Format 2004 Edition.

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