

# Cavityboard™ HD

## Physical Properties Data Sheet

**PowerWool™ Cavityboard™ HD** is a continuous, non-structural and non-combustible semi-rigid mineral wool insulation sheathing board designed to increase the effective thermal value in exterior cavity wall and rainscreen applications. With a consistent density throughout, the product has no need to be placed in a certain direction.



Approved for use in  
Canada and the USA

CHARACTERISTIC	RESULT	TEST STANDARD																																																						
Compliance	Mineral Fiber Block and Board Thermal Insulation - Compliant Mineral Fiber Thermal Insulation for Buildings - Compliant	ASTM C612 CAN/ULC S702.1																																																						
Reaction to Fire	Flame spread index = 0; Smoke developed index = 0 Flame spread index = 0; Smoke developed index = 0 Determination of Non Combustability of Building Materials - Non Combustible Behaviour of materials at 750°C - Non Combustible	ASTM E84 (UL 723) CAN/ULC S102 CAN/ULC S114 ASTM E136																																																						
Density	6 lbs/ft <sup>3</sup> (100 kg/m <sup>3</sup> ) - Actual	ASTM C303																																																						
Dimensional Stability	Linear Shrinkage = Pass @1200°F (650°C)	ASTM C356																																																						
Corrosion Resistance	Corrosion of Steel - Passed	ASTM C665																																																						
Thermal Resistance	R-Value / inch @ 75°F RSI value / 25.4 mm @ 24°C	4.2 hr.ft <sup>2</sup> .F/Btu 0.74 m <sup>2</sup> K/W	ASTM C518																																																					
Reaction to Moisture	Moisture Sorption - Pass Water Vapor Transmission, Desiccant Method - 1670ng/Pa.s.m <sup>2</sup> (29 perm) Determination of Fungi Resistance - Passed	ASTM C1104 ASTM E96 ASTM C1338																																																						
Dimensions	1½" (38 mm) to 6" (152.4 mm) in ½" increments 16" x 48" (406 mm x 1219mm) 24" x 48" (610 mm x 1219 mm)																																																							
Acoustic Performance	<table border="1"> <thead> <tr> <th></th> <th>125Hz</th> <th>250Hz</th> <th>500Hz</th> <th>1000Hz</th> <th>2000Hz</th> <th>4000Hz</th> <th>NRC</th> <th>SAA</th> </tr> </thead> <tbody> <tr> <td>1.5"</td> <td>0.09</td> <td>0.47</td> <td>0.97</td> <td>1.04</td> <td>0.99</td> <td>0.98</td> <td>0.85</td> <td>0.88</td> </tr> <tr> <td>2"</td> <td>0.26</td> <td>0.88</td> <td>1.12</td> <td>1.06</td> <td>0.99</td> <td>1.00</td> <td>1.00</td> <td>1.01</td> </tr> <tr> <td>2.5"</td> <td>0.39</td> <td>1.06</td> <td>1.15</td> <td>1.06</td> <td>1.02</td> <td>1.07</td> <td>1.05</td> <td>1.06</td> </tr> <tr> <td>3"</td> <td>0.57</td> <td>1.12</td> <td>1.14</td> <td>1.03</td> <td>1.02</td> <td>1.02</td> <td>1.10</td> <td>1.07</td> </tr> <tr> <td>4"</td> <td>0.76</td> <td>1.13</td> <td>1.09</td> <td>1.03</td> <td>1.01</td> <td>1.04</td> <td>1.05</td> <td>1.06</td> </tr> </tbody> </table>		125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	NRC	SAA	1.5"	0.09	0.47	0.97	1.04	0.99	0.98	0.85	0.88	2"	0.26	0.88	1.12	1.06	0.99	1.00	1.00	1.01	2.5"	0.39	1.06	1.15	1.06	1.02	1.07	1.05	1.06	3"	0.57	1.12	1.14	1.03	1.02	1.02	1.10	1.07	4"	0.76	1.13	1.09	1.03	1.01	1.04	1.05	1.06	ASTM C423-23 ASTM E795-23
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EVALUATED TO:	
CAN/ULC S702.1 Type 1 Compliant	ASTM C612 Type IVB Compliant
CAN/ULC S102 FSI: 0 SDI: 0	ASTM E84 (UL 723) FSI: 0 SDI: 0
CAN/ULC S114 Classified Non-Combustible	ASTM E136 Classified Non-Combustible
ASTM C1338 Does not support fungi growth.	



FILE: B1124



For exterior use only.  
Not for interior use.

PowerWool Insulation Inc. has no control over the workmanship, design of installation, accessories used with or conditions of application, and as such we do not warranty the performance or results of any installation containing PowerWool Insulation Inc.'s products.

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