



## Acoustical Fire Batt Insulation



ROCKWOOL AFB® is a lightweight, acoustical fire batt stone wool insulation specifically designed for steel stud and wood stud interior wall and floor applications. Its superior sound absorbtion and fire protection contribute to the overall comfort and safety of occupants.

It provides increased density that reduces sound transmission. Greater noise control is further achieved when AFB® is part of the wall assembly along with gypsum boards and resilient channels.

AFB® is noncombustible and will not develop toxic smoke or promote flame spread, even when directly exposed to fire. This helps to provide valuable extra time for people to reach safety and for fire services personnel to control the spread. It is a key component of fire-rated partitions.

AFB® comes in a number of thicknesses to meet the requirements of both retrofit and new construction applications.

Learn more at [rockwool.com/afb](http://rockwool.com/afb)

### Quiet Spaces

The higher density of ROCKWOOL AFB® can reduce sound transmission, helping to create a quiet and comfortable space.



**ROCKWOOL®**



## Acoustical Fire Batt Insulation

### Technical Data Sheet

Batt Insulation 07210 & 09820\* • Blanket Insulation 07 21 16\*\*

Acoustical Blanket Insulation 09 81 16\*\*

**ROCKWOOL AFB® is a stone wool batt insulation for interior partition walls and floor/ceiling installations in commercial constructions where superior fire resistance and acoustical performance are required.**

|   | Performance  | Test Standard                  |        |         |        |         |        |         |     |     |   |      |      |      |      |     |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |           |
|---|--|--------------------------------|--------|---------|--------|---------|--------|---------|-----|-----|---|------|------|------|------|-----|------|------|------|---|------|------|------|------|------|------|------|------|---|------|------|------|------|------|------|------|------|---|------|------|------|------|------|------|------|------|---|------|------|------|------|------|------|------|------|-----------|
| Compliance  | Mineral Fiber Thermal Insulation for Buildings, Type 1 Compliant   | CAN/ULC S702                   |        |         |        |         |        |         |     |     |   |      |      |      |      |     |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |           |
|   | Mineral Fiber Blanket Thermal Insulation, Type 1 Compliant   | ASTM C665                      |        |         |        |         |        |         |     |     |   |      |      |      |      |     |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |           |
|   | Mineral Fiber Blanket Thermal Insulation, Type 7 Compliant   | ASTM C553                      |        |         |        |         |        |         |     |     |   |      |      |      |      |     |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |           |
|   | MEA Approval, New York City Approval   | 338-97-M                       |        |         |        |         |        |         |     |     |   |      |      |      |      |     |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |           |
| Reaction to Fire  | Flame Spread Index = 0; Smoke Developed Index= 0   | ASTM E84 (UL 723) <sup>1</sup> |        |         |        |         |        |         |     |     |   |      |      |      |      |     |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |           |
|   | Flame Spread Rating = 0; Smoke Developed Classification = 0  | CAN/ULC S102                   |        |         |        |         |        |         |     |     |   |      |      |      |      |     |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |           |
|   | Combustibility of Materials at 750 °C - Noncombustible   | ASTM E136                      |        |         |        |         |        |         |     |     |   |      |      |      |      |     |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |           |
|   | Determination of Non-combustibility of Building Materials - Non-combustible  | CAN/ULC S114                   |        |         |        |         |        |         |     |     |   |      |      |      |      |     |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |           |
|   | Smoulder Resistance - 0.04 wt%   | CAN/ULC S129                   |        |         |        |         |        |         |     |     |   |      |      |      |      |     |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |           |
| Nominal Density   | > 2.5 lbs/ft <sup>3</sup> (>40 kg/m <sup>3</sup> ) <sup>†</sup>  | ASTM C303                      |        |         |        |         |        |         |     |     |   |      |      |      |      |     |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |           |
| Corrosion Resistance  | Corrosiveness to Steel - Passed  | ASTM C665                      |        |         |        |         |        |         |     |     |   |      |      |      |      |     |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |           |
| Air Erosion   | Maximum Air Velocity - 1000 fpm (5.08 m/s)   | UL 181                         |        |         |        |         |        |         |     |     |   |      |      |      |      |     |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |           |
| Thickness Dimensions  | 1" through 4" (25.4 mm - 101.6 mm) in 1/2" increments as well as 5" (127 mm) and 6" (152.4 mm),<br>Wood studs: 15.25" x 47" (387 mm x 1194 mm), 23" x 47" (584 mm x 1194 mm)<br>Steel studs: 16" x 48" (413 mm x 1219 mm), 24" x 48" (610 mm x 1219 mm)  |                                |        |         |        |         |        |         |     |     |   |      |      |      |      |     |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |           |
| Acoustical Performance  | <table border="1"> <thead> <tr> <th>Thickness (In.)</th> <th>125 Hz</th> <th>250 Hz</th> <th>500 Hz</th> <th>1000 Hz</th> <th>2000Hz</th> <th>4000 Hz</th> <th>NRC</th> <th>SAA</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0.05</td> <td>0.22</td> <td>0.63</td> <td>0.84</td> <td>0.9</td> <td>0.94</td> <td>0.65</td> <td>0.65</td> </tr> <tr> <td>2</td> <td>0.22</td> <td>0.69</td> <td>1.09</td> <td>1.05</td> <td>0.99</td> <td>0.99</td> <td>0.95</td> <td>0.96</td> </tr> <tr> <td>4</td> <td>0.73</td> <td>1.24</td> <td>1.13</td> <td>1.04</td> <td>1.02</td> <td>1.03</td> <td>1.10</td> <td>1.11</td> </tr> <tr> <td>6</td> <td>1.11</td> <td>1.28</td> <td>1.15</td> <td>1.06</td> <td>1.03</td> <td>1.01</td> <td>1.15</td> <td>1.14</td> </tr> <tr> <td>8</td> <td>1.15</td> <td>1.22</td> <td>1.11</td> <td>1.07</td> <td>1.03</td> <td>1.03</td> <td>1.10</td> <td>1.12</td> </tr> </tbody> </table> | Thickness (In.)                | 125 Hz | 250 Hz  | 500 Hz | 1000 Hz | 2000Hz | 4000 Hz | NRC | SAA | 1 | 0.05 | 0.22 | 0.63 | 0.84 | 0.9 | 0.94 | 0.65 | 0.65 | 2 | 0.22 | 0.69 | 1.09 | 1.05 | 0.99 | 0.99 | 0.95 | 0.96 | 4 | 0.73 | 1.24 | 1.13 | 1.04 | 1.02 | 1.03 | 1.10 | 1.11 | 6 | 1.11 | 1.28 | 1.15 | 1.06 | 1.03 | 1.01 | 1.15 | 1.14 | 8 | 1.15 | 1.22 | 1.11 | 1.07 | 1.03 | 1.03 | 1.10 | 1.12 | ASTM C423 |
| Thickness (In.)   | 125 Hz   | 250 Hz                         | 500 Hz | 1000 Hz | 2000Hz | 4000 Hz | NRC    | SAA     |     |     |   |      |      |      |      |     |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |           |
| 1   | 0.05   | 0.22                           | 0.63   | 0.84    | 0.9    | 0.94    | 0.65   | 0.65    |     |     |   |      |      |      |      |     |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |           |
| 2   | 0.22   | 0.69                           | 1.09   | 1.05    | 0.99   | 0.99    | 0.95   | 0.96    |     |     |   |      |      |      |      |     |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |           |
| 4   | 0.73   | 1.24                           | 1.13   | 1.04    | 1.02   | 1.03    | 1.10   | 1.11    |     |     |   |      |      |      |      |     |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |           |
| 6   | 1.11   | 1.28                           | 1.15   | 1.06    | 1.03   | 1.01    | 1.15   | 1.14    |     |     |   |      |      |      |      |     |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |           |
| 8   | 1.15   | 1.22                           | 1.11   | 1.07    | 1.03   | 1.03    | 1.10   | 1.12    |     |     |   |      |      |      |      |     |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |           |
| Please contact ROCKWOOL for STC ratings on tested wall assemblies |  | ASTM E90                       |        |         |        |         |        |         |     |     |   |      |      |      |      |     |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |           |
| Fire Rated Designs  | ULC Classification Code: BZJZC<br>UL Classification Code: BZJZ   |                                |        |         |        |         |        |         |     |     |   |      |      |      |      |     |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |           |



**Declare.**



For more information regarding the certifications and listings of our stone wool insulation products, please visit:

[rockwool.com/certifications-and-listings](http://rockwool.com/certifications-and-listings)

#### USA Specifications and Sizing

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NOTE: \*Master Format 1995 Edition \*\*Master Format 2004 Edition. As ROCKWOOL has no control over installation design and workmanship, accessory materials or application conditions, ROCKWOOL does not warranty the performance or results of any installation containing ROCKWOOL's products. ROCKWOOL's overall liability and the remedies available are limited by the general terms and conditions of sale. This warranty is in lieu of all other warranties and conditions expressed or implied, including the warranties of merchantability and fitness for a particular purpose. Note 1: Meets Class A requirements for flame spread and smoke-developed indices as per IBC.

<sup>†</sup>Density will change with thickness. Density is not a performance criteria but is commonly referred to when specifying insulation. Actual density is the true density of the insulation and Nominal density is the effective density of the insulation relative to a historic benchmark where the insulation contained 40% non-fibrous content also known as Shot (ASTM C612-99). Please contact ROCKWOOL for more information.



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