PRODUCT DESCRIPTION
CAFCO-BOARD / ISOLATEK Type CB is a rigid mineral wool board which combines fire protection, thermal insulation and acoustical control all in one product.
With the ability to be installed during any phase of construction, regardless of roof traffic, temperature or substrate condition, CAFCO-BOARD / ISOLATEK Type CB is the ideal solution for fast paced projects.

PRODUCT ADVANTAGES
• Lasting in-place performance – mechanically fastened
• 70% recycled content (pre-consumer)
• Inorganic composition
• Available in pre-manufactured thicknesses according to UL design criteria
• Choice of unfaced, silver or white foil faced finish
• NRC of up to 1.1 for noise reduction coefficient
• Thermal resistance (R-value) up to 4.2

Technical Information
Nominal Density 9 pcf (144 kg/m³)
Standard Dimension 2' x 4' (610 x 1219 mm)
Thickness Range 1” to 4½” (25 to 114 mm)
Finish Unfaced, silver foil faced, white foil faced
Recycled Content 70% (pre-consumer)
Method of Attachment Patented friction fit Cafclips, welded pins and clinch shields

FIRE TEST PERFORMANCE
CAFCO-BOARD / ISOLATEK Type CB has been extensively tested for fire resistance and is rated for up to 4 hours for floor assemblies, beams, joists, columns, and roof assemblies.
• Classified by UL in accordance with ANSI/UL 263 (ASTM E119)
• Classified by UL in accordance with CAN/ULC-S101 (ASTM E119)

CAFCO-BOARD / ISOLATEK Type CB has also been tested for surface burning characteristics in accordance with ASTM E84 and is rated Class A.
Plain Flame Spread ......0 Smoke Developed ......0
Foil Faced Flame Spread ......15 Smoke Developed ......5

Thermal Performance

<table>
<thead>
<tr>
<th>Product</th>
<th>Conductivity (k)*</th>
<th>Resistance (R/inch)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAFCO-BOARD ISOLATEK Type CB</td>
<td>0.24 BTU in/hr ft²°F @ 75°F (0.034 W/m•K@24˚C)</td>
<td>4.2</td>
</tr>
</tbody>
</table>

*When tested in accordance with ASTM C518

Noise Reduction Coefficients*

<table>
<thead>
<tr>
<th>1/3 Octave Band Center Frequency HZ</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1000</th>
<th>2000</th>
<th>4000</th>
<th>NRC</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 in (51 mm)</td>
<td>0.18</td>
<td>0.75</td>
<td>1.17</td>
<td>1.06</td>
<td>1.00</td>
<td>0.81</td>
<td>1.00</td>
</tr>
<tr>
<td>4 in (102 mm)</td>
<td>0.49</td>
<td>1.11</td>
<td>1.11</td>
<td>1.14</td>
<td>0.97</td>
<td>0.64</td>
<td>1.10</td>
</tr>
</tbody>
</table>

* Data on Unfaced CAFCO-BOARD / ISOLATEK TYPE CB, when tested in accordance with ASTM E84

Sound Transmission Class (STC) Data

<table>
<thead>
<tr>
<th>STC</th>
<th>1 in (25 mm)</th>
<th>2 in (51 mm)</th>
<th>3 in (76 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10</td>
<td>15</td>
<td>18</td>
</tr>
</tbody>
</table>

Hourly Rating

<table>
<thead>
<tr>
<th>Columns</th>
<th>1</th>
<th>1½</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>W6x16 to W8x28 (W150x24 to W200x42)</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>X314</td>
<td></td>
</tr>
<tr>
<td>W10x49 (W250x73)</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>X314</td>
<td></td>
</tr>
<tr>
<td>W12x106 to W14x228 (W310x158 to W360x342)</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Protected Floor/Ceiling Assemblies Minimum Concrete Thickness

<table>
<thead>
<tr>
<th>Electrified floor decks</th>
<th>2’ – 3’ deck 2½” concrete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor Assembly</td>
<td>2’ – 3’ deck 2½” concrete</td>
</tr>
</tbody>
</table>

Unprotected Floor/Ceiling Assembly

| Floor Beam                               | 3 ½” LW Concrete |
| Beam Only Floors                         | Minimum Concrete Thickness |
| Floor Beam Only Rating                   | 2½” concrete      |
| Floor Beam Only Rating                   | 2½” concrete      |
| Roof / Ceiling Assemblies (Includes Beams And Joists) |      |
| Polysiocyanurate or Mineral and Fiber Boards |              |
| Lightweight Insulating Concrete          |               |

Technical Data Sheet
CAFCO-BOARD / ISOLATEK Type CB Guide Specification

1. Work Included

1.1 Specify to meet project requirements. Provide all labor, materials, equipment and services necessary for, and incidental to, the complete and proper installation of all sprayed fire protection and related work as shown on the drawings or where specified herein, and in accordance with all applicable requirements of the Contract Documents.

1.2 The material and installation shall conform to the applicable building code requirements of all authorities having jurisdiction.

1.3 Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specifications Sections, apply to this Section.

1.4 Submittals

Product Data to be submitted with manufacturers' specification, including certification as may be required to show material compliance with Contract Documents.

1.5 Product Certificates or test reports from, and based on tests performed by, qualified independent testing and inspection agency acceptable to authorities having jurisdiction. Include test results and their interpretations which evidence compliance of current mineral wool board fire protection with from independent laboratory test results for all specified performance criteria.

1.6 Research Evaluation Reports of the model code organization acceptable to authorities having jurisdiction which evidence mineral wool board’s fire protection compliance with the building code applicable to the project.

1.7 Coordination/Sequencing

Sequence and coordinate installation of board fire protection with related construction operations specified in other sections to comply with the following requirements:

- Avoid unnecessary exposure of rigid board fire protection to abrasion and other damage likely to occur during construction operations subsequent to its application.

- Do not install rigid board fire protection on structural members until piping and other construction behind the fire protection has been completed.

- Expedite installation of rigid board fire protection to minimize exposure of structural members without fire protection.

1.8 Fastening Accessories:

For each fire resistant assembly in which rigid board fire protection serves as rigid board fire protection, provide a board fastening system complying to the related UL design or other acceptable testing and inspection organization’s report.

1.9 Field Quality Control

Independent inspecting agency to inspect rigid board fire protection and prepare inspection reports.

1.10 Testing Services:

Inspecting of completed installations of rigid board fire protection shall take place in successive stages as installation of rigid board fire protection proceeds. Do not proceed with installation of rigid board fire protection for the next area until inspecting agency determines completed work shows compliance with requirements.

1.11 Product Availability

CAFCO-BOARD / ISOLATEK Type CB Guide Specification is available on various media upon request.

1.2 – GENERAL

Related Sections

SECTION 072100 - THERMAL INSULATION

SECTION 078123 – INTUMESCENT

SECTION 079145 - PENTRATION FIRESTOPPING

SECTION 092000 – GYPSUM BOARD

SECTION 099123 – INTERIOR PAINTING

1.3 Installation/Application

Comply with manufacturer’s written instructions for particular conditions of installation in each case.

Install rigid board fire protection to comply with requirements for thicknesses, number of courses (layers), construction of joints and corners, and anchorage methods applicable to fire resistance rated assemblies indicated.

3. Protection

3.1 Coordinate installation of rigid board fire protection with other construction trades to minimize cutting into, or removal of, already installed board material. As construction by other trades is successively completed, replace or repair rigid board fire protection installations which have been removed or cut away, in accordance with 3.3.2. Maintain complete thickness on steel members and assemblies protected by fire protection.

3.2 All patching and repair to rigid board fire protection due to damage by other trades shall be performed under this section and paid for by the trade responsible for the damage.

3.3 Provide final protection and maintain conditions in a manner acceptable to installer. Manufacturer, and authorities having jurisdiction that ensures rigid board fire protection is without damage or deterioration at time of Substantial Completion.

3.4 Field Quality Control

Inspection Agency: Engage a qualified inspector or laboratory to inspect rigid board fire protection and prepare inspection reports.

3.5 Testing Services:

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3.6 Product Availability

CAFCO-BOARD / ISOLATEK Rigid Board Fire Protection is available on various media upon request.

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