



THERMAFIBER® INDUSTRIAL BOARD PRODUCTS

INSTALLATION INSTRUCTIONS

The following installation instructions are applicable for our rigid and semi-rigid industrial mineral wool board products including: Thermafiber® Industrial Board, Thermafiber® Industrial Blanket, Thermafiber® Industrial Felt and Thermafiber® Marine Board.

PREPARATION

Prior to installation inspect both the surface to be insulated and the insulation to ensure both are clean, dry and free of dirt, scale, moisture, oil and grease. The insulation contact surface should also be inspected and verified that insulation is ready to be installed.

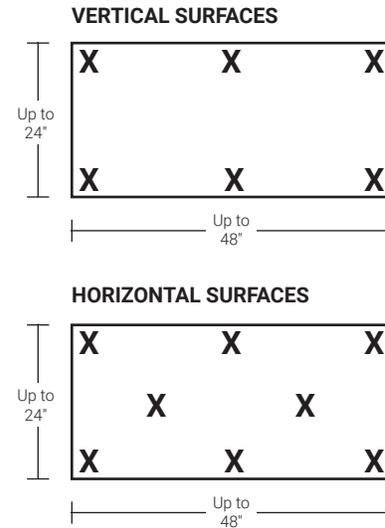
Finally, verify that it is physically possible for the insulation to be installed in accordance with project drawings, operation performance parameters and the limitations of this installation guide. The owner/end user specification should always be the controlling document, with exception to approved change orders.

INSTALLATION

1. Install the insulation one section at a time. Straps may be needed for larger sections to hold the insulation in place until the insulation can be secured.
2. Insulation shall be secured using pins or studs welded onto the surface that is to be covered. Pins are to be installed on maximum 16 inches (400mm) centers and not more than 4 inches (102mm) from the edge of the insulation. The insulation is then impaled over the pins or studs and held in place with speed washers or nuts.
3. Insulation shall be installed such that the joints are staggered in a "brick pattern" to avoid thermal breaks.
4. For temperatures above 600°F (316°C), double layer insulation is recommended for optimal thermal performance. The first layer shall be secured by speed washers or nuts before the second layer can be installed. Stagger joints a minimum of 6 inches (152mm) of overlap between the top and bottom layers.
5. In multiple layer applications, use plain foil or FSK faced material on the outer layer only. Repair any punctures or tears in the facing by taping with a matching pressure sensitive tape.
6. For applications where the insulation is subjected to physical abuse, exposed to weather conditions, or chemicals a rigid jacket is recommended.
7. Secure the metal jacketing with banding. Joints in the jacketing shall be staggered a minimum of 6 inches (152mm) from the joints in the insulation.
8. Jacketing shall be overlapped to shed water. Longitudinal and butt joints shall be wide enough to provide a weather-proof seal. This also allows for expansion and contraction of the jacketing in exterior environments.
9. Fill joints and seams with additional mineral wool material.
10. Neatly finish insulation at supports, protrusions and interruptions such that safe to touch temperatures can be maintained while providing a weather-proof seal.
11. Do not insulate over nameplates or ASME stamps. Instead form a tight insulation seal around them.
12. When equipment with insulation requires periodic opening for maintenance, repair or routine inspection, install the insulation in such a way that it can be easily removed and put back in place without damage.

RECOMMENDED IMPALING PIN PATTERNS

Pins should be located no more than 4" from the edge of the board.



TEMPERATURE PARAMETERS AND HEAT-UP SCHEDULE

Thermafiber® Industrial Mineral Wool Insulation has a temperature rating of 1200°F (650°C). Thermafiber® Industrial Mineral Wool Insulation can be installed surfaces in-service/hot up to 1200°F (650°C). If the surface is being heated from ambient temperature when the insulation is applied, bring the system incrementally to operating temperature over a 24-hour period. Although this is not a requirement, it will help to minimize temporary odors from the phenolic binder on start up.

For more information, please refer to the product data sheets available at www.owenscorning.com/industrial.

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