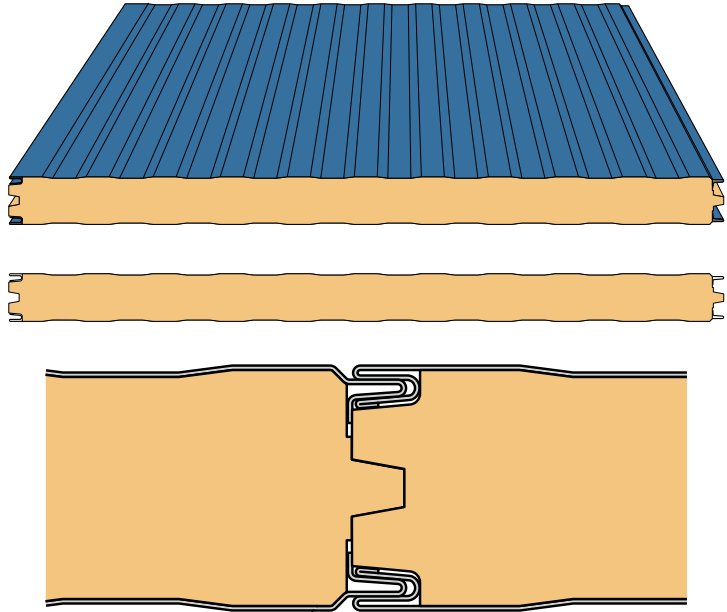


# THERMALSAFE® FIRE RESISTIVE INSULATED PANEL

## METL-SPAN INSULATED METAL PANELS



Metl-Span's ThermalSafe® insulated metal panel is the latest development in fire resistant wall construction technology. Unlike traditional wall materials, this insulated fire resistive panel offers a level of flexibility architects, contractors, and building owners won't find in any other product in the U.S. From their one step - one crew installation ease to the remarkable LockGuard® interlocking side joint feature that enhances the fire resistance characteristics of the panels. ThermalSafe® mineral wool panels are rated for their 1-, 2-, and 3-hour fire resistance qualities, and provide good thermal performance and protection from the elements.



ThermalSafe panels consist of metal facings bonded to a structural mineral wool core to create composite panels that achieve fire resistance ratings under the most demanding of conditions. The panels are made from raw materials that are environmentally friendly and have no VOCs and CFCs that affect the ozone layer or add to global warming potential.

### FIRE RESISTIVE DATA

1. The finished panel in 4" thickness for one hour, 7" thickness for two hour, and 8" thickness for three hour fire resistance ratings for nonbearing walls in accordance with UL 263 Fire Endurance tests and ASTM E119 tests.
2. For more complete fire resistance rating data, including fire resistance ratings for pipe penetrations both metallic and non-metallic, ducts, and fire door assembly design installed in a fire resistive ThermalSafe wall, go to [www.metlspan.com](http://www.metlspan.com) and follow links to fire resistance approvals data.
3. Wall-framing support members and adjacent construction may require fire protection as specified by applicable building code. The customer is responsible for specifying the appropriate fire protection of these areas.

### FINISHES & COLORS

A full range of exterior colors & coatings are available for the architectural market. For specific information about our available colors and coatings, visit us online for a comprehensive selection.

**METL-SPAN:** Pioneering Insulated Metal Panel Technology  
1720 Lakepointe Drive, Suite #101, Lewisville, Texas 75057 • 877.585.9969 • FAX: 972.420.9382  
[metlspan.com](http://metlspan.com) • Visit our website or call us today for a free architectural catalog and CAD CD-ROM.

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### THERMALSAFE® FEATURES & BENEFITS

ThermalSafe's structural mineral wool core resists high temperatures and will not burn, thus providing excellent fire resistive qualities.

Fire resistive exterior and interior walls can be installed in one step with ThermalSafe mineral wool panels. You eliminate multiple steps associated with the installation of concrete block or numerous layers of gypsum wallboard. They provide good thermal performance and protection from the elements in addition to their fire resistive characteristics. Additional steps to insulate the wall are eliminated.

ThermalSafe panels may be installed without sealant in the side joint for partition wall applications when a vapor seal is not required, greatly enhancing installation speed.

ThermalSafe fire resistive insulated panels can be combined with Metl-Span foam insulated panels for an aesthetically consistent profile facing, texture and color.

For interior applications, partitions can be disassembled, moved and reinstalled rather than having to be demolished, the waste materials disposed of and the partition walls completely rebuilt.

Mineral wool panels have good sound transmission acoustical properties.

The ThermalSafe core is dimensionally stable, water repellent and will not expand. Mineral wool, however, is a fibrous material with a high perm rating, so the ThermalSafe panel edges must be protected from moisture.

### THERMALSAFE® FIRE RESISTIVE INSULATED PANEL FEATURES

**Exterior & Interior Profile:** Light Mesa nominal 1/32" deep

**Panel Core:** Non-combustible, rigid mineral wool lamellas. Mineral wool fibers are oriented perpendicular to the panel faces for maximum structural strength.

**Thermal Values:** K-factor of .275 btu/sf/hr./deg.F at a 75°F (24°C) mean temperature.

**Module Width:** 42"

**Panel Thickness:** Nominal 4", 5", 6", 7", 8"

**Panel Lengths:** 8'-0" to 40'-0", variable by thickness. Contact Metl-Span for exact maximum length for each thickness.

**Panel Weight, 26 Ga. Faces:** 4" is 4.65#/s/SF, 5" is 5.49#/s/SF, 6" is 6.21#/s/SF, 7" is 6.92#/s/SF, 8" is 7.63#/s/SF.

**Exterior Facings:** Stucco embossed G-90 galvanized and/or AZ-50 aluminum-zinc coated steel in 26 Ga. and 24 Ga.

**Interior Facings:** Stucco embossed G-90 galvanized and/or AZ-50 aluminum-zinc coated steel in 26 Ga. and 24 Ga.

**Panel Joint:** Exclusive LockGuard® side joint has a flush, double tongue and groove connection of the metal faces with an advanced integral spline to join the mineral wool core.

**R-Value:** The core insulating properties are 3.61 "R" per inch.

**Fastening:** Through fastening across the width of the panel to the support framing. Consult fire resistive listings for fastener types and spacing. Fastening patterns may vary depending on specific windload and fire resistive requirements.

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