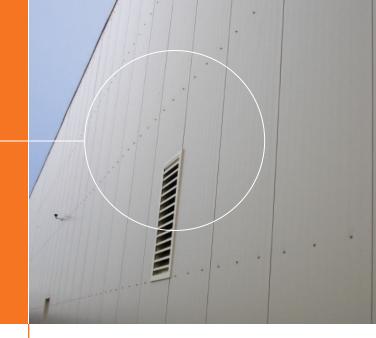
THERMALSAFE ®



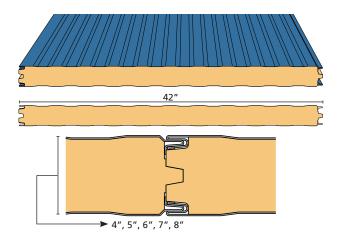
ThermalSafe[®] insulated metal panels are fire resistant. Consisting of metal facings bonded to a structural mineral wool core, this composite panel for exterior walls, partitions, ceilings and liners is rated for one-, two- or three-hour fire resistance.

In addition to fire resistance, ThermalSafe® panel provides good thermal performance and reduces sound transmission.

The unique LockGuard[®] side joint speeds the installation process and enhances the fire resistance of the panel with its tongue-and-groove engagement of the mineral wool core.

FEATURES AND BENEFITS

- A non-combustible core resists high temperatures and will not burn, providing excellent fire resistant qualities.
- One-step construction process assures rapid completion of the wall system. Factory fabricated composite panels are attached directly to the supporting structure eliminating the multiple steps associated with installation of concrete blocks or numerous layers of gypsum wallboard.
- Superior thermal performance and protection from the elements across the entire wall area. The advanced mineral wool core provides enhanced insulated values that significantly lower heating and cooling costs.
- Reusable panels can be disassembled, moved and reinstalled rather than having to be demolished, waste materials disposed of and walls completely rebuilt.
- Better sound absorption acoustical properties are achieved with ThermalSafe® compared to foam insulated metal panels.
- Aesthetic profile can be combined with other foam insulated wall panels for consistency in profile, texture and color.



USES AND APPLICATIONS

In new and retrofit construction, ThermalSafe[®] panels function as exterior fire resistant separation walls, ceilings or as fire partitions and barriers inside buildings that contain multiple tenant leased space.

They are ideally suited for:

ARCHITECTURAL

- Arenas
- Gymnasiums
- All High Occupancy Structures

COMMERCIAL & INDUSTRIAL

- Auxiliary Buildings at Refineries
- Bakeries
- Food Processing Facilities
- Manufacturing Plants
- Warehouses

COLD STORAGE

Recommended for cold storage buildings



THERMALSAFE ®

MATERIAL SPECIFICATIONS **EXTERIOR PROFILE** Light Mesa Wave pattern, nominal 1/32" deep. **INTERIOR PROFILE** Light Mesa wave pattern, nominal 1/32" deep. Non-combustible, rigid mineral wool lamellas. Mineral FOAM CORE wool fibers are oriented perpendicular to the panel faces for maximum structural strength. K-factor, Btu in/ft² hr °F THERMAL VALUE @ 75°F mean core temperature = 0.275 R- VALUE The core insulating properties are 3.61 "R" per inch. MODULE WIDTH 42″ 3" TSNC*, 4", 5", 6", 7" & 8" PANEL THICKNESS * 3" TSNC (ThermalSafe® Non-Combustible) does not have a fire rating, however can be applied as a non-combustible wall. 8'-0" to 40'-0" variable by thickness. Contact Robertson for PANEL LENGTHS exact maximum length for each thickness. PANEL WEIGHT 4" 5″ 6 7″ 8″ 26 GA. FACES 4.65psf 5.49psf 6.21psf 6.92psf 7.63psf Stucco embossed, G-90 galvanized and/or AZ-50 aluminum-**EXTERIOR FACINGS** zinc coated steel in 26 Ga. and 24 Ga Stucco embossed, G-90 galvanized and/or AZ-50 aluminum-**INTERIOR FACINGS** zinc coated steel in 26 Ga. and 24 Ga. Type 304 stainless steel in 26 Ga. embossed and unpainted. Siliconized Polyester, Fluropon® Full-Strength 70% PVDF Fluoropolymer Coating. EXTERIOR Note **FINISHES & COLORS** Dark colors are not recommended for exterior color on 1. cooler and freezer buildings. 2. Prices may vary by color, gauge and quantity of metal. **INTERIOR FINISHES** USDA-compliant Polyester, Igloo White. & COLORS USDA-compliant PVC Plastisol Polar White Flush double tongue-and-groove interlock of the metal faces LOCKGUARD® JOINT and machined integral spline of the mineral wool core. Through fastening across the width of the panel to the support framing. Consult fire resistive listings for fastener types and FASTENING spacing. Fastening patterns may vary depending on specific wind-load and fire resistive requirements. **RECOMMENDED MAXIMUM PANEL LENGTH** PANEL FACE GAUGES 4″ 5″ 6″ 7″ 8″ EXT/INT 26/26 40'-0" 40'-0" 40'-0" 37'-0" 34'-0" 24/26 40'-0" 40'-0" 40'-0" 36'-0' 33'-0" 24/24 40'-0" 40'-0" 39'-0" 35'-0" 31'-0"

Robertson Building Systems reserves the right to discontinue products at any time or change specifications and/or designs without incurring obligation. For current product information, inquire or visit RobertsonBuildings.com. Application details are for illustration purposes only and may not be appropriate for all conditions, building designs or panel profiles. If there is a conflict between the preceding and project erection drawings, the erection drawings will take precedence.



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Western Office | 11318-163 St. NW, Edmonton, AB T5M 1Y6 | 780-485-3055, f 780-461-7785

Standard Standard / Test Description FM Approval Class 1 Fire Rating of Interior Insulated Standard 4880 Wall and Ceiling Panels Surface Burning Characteristics of ASTM E84 **Building Materials** Fire Fire Tests of Building Construction Performance ASTM E119 Materials Standard Methods of Fire Endurance CAN/ULC S101 Tests of Building Construction and Certifications Materials Structural Strength Tests of Panels for Building ASTM F72 Performance Construction Rate of Air Leakage Through Curtain ASTM E283 Walls Under Specified Pressure Vapor Barrier Differences Performance

ASTM E331

Water Penetration of Exterior Walls by

Uniform Static Air Pressure Differences

FIRE RESISTANCE DATA

TESTS AND CERTIFICATIONS

1.	Wall Panels	1.	The finished panel in a four (4) inch thickness shall meet the require- ments of a one (1)-hour fire resistance rating for a non-bearing wall in accordance with UL263 per (UL design U050 for US and design W021 for Canada), ASTM E 119 and CAN/ULC S101 (per Intertek design MS/WA 60-1).
		2.	The finished panel in a six (6) inch thickness meets the requirements of a two (2)-hour fire resistance rating for a non-bearing wall in accordance with ASTM E 119 and CAN/ULC S101 (per Intertek design MS/WA 120-1).
		3.	The finished panel in a seven (7) inch thickness shall meet the requirements of a two (2)-hour fire resistance rating for a non-bear- ing wall in accordance with UL 263 (per UL design U050 for US and design W021 for Canada).
		4.	The finished panel in an eight (8) inch thickness shall meet the re- quirements of a three (3)-hour fire resistance rating for a non-bearing wall in accordance with UL 263 (per UL design U050 for US and W021 for Canada).
2.	Ceiling Panels	1.	The finished panel in a six (6) inch thickness shall meet the require- ments of a one and a half (1-½) hour fire resistance rating for a ceiling in accordance with ASTM E 119 and CAN/ULC S101 (per Intertek design FC200).
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. Notice: The information herein is intended to provide a general understanding of the ThermalSafe® panel and related fire protection requirements. For any specific application, the exact fire protection requirements must be obtained from the appropriate federal/state/provincial/local building code and/or fire code authority.		

Load span tables and notes are available at RobertsonBuildings.com