LISTING INFORMATION OF Metl-Span, LLC THERMALSAFE™ 4" Thick 1 Hour Fire Rated Wall Panels

SPEC ID: 29555

Metl-Span, A Division of NCI Group, Inc.
1720 Lakepointe Drive, Suite 101
Lewisville, TX 75057

PRODUCT COVERED

THERMALSAFE™ Mineral Fiber Panels

PRODUCT DESCRIPTION

The panels are fabricated by a continuous process at the Metl-Span Shelbyville, Indiana facility. THERMALSAFE™ panels are composite panel assemblies that sandwich a mineral fiber core between metal facers or “skins”. Panels are not fully encapsulated by the metal skin—the mineral fiber core is exposed around all edges. The mineral fiber core is adhered to the metal skins by a two-component polyurethane adhesive mixed with a wiping mechanism at the time of panel construction. See Appendix A for a cross-sectional view of a THERMALSAFE™ panel.

One edge has a square or “spline” groove cut into the mineral fiber core down the length of the panel. The opposite edge of the panel has a square shape protrusion or “spline tongue” extending from the mineral fiber core running down the length of the panel. This allows a tongue-and-groove fit of the mineral fiber cores between adjacent panels. The main connecting mechanism between two panels is a tongue-and-groove connection made at the edge of the panels by the metal skins. Panels are symmetric about their centerline.

RATINGS

Minimum Thickness: 4 inches
Nominal Density: 8.5 lb/ft^3 (pcf)

ASTM E 119-16, UL 263-11, CAN/ULC S101-07, NFPA 251-06

Design No.	Rating
MSN/IMWP 60-01	1 hour

Attribute	Value
Criteria	NFPA 251 (2006)
Criteria	CAN / ULC S101 (2007)
Criteria	ASTM E119 (2008a)
Criteria	ASTM E119 (2010b)
Criteria	UL 263 (2011)
Criteria	ASTM E119 (2015)
CSI Code	07 42 13 Metal Wall Panels

Fire Resistance	1 Hour Fire Rating
Intertek Services	Certification
Listed or Inspected	LISTED
Listing Section	WALL ASSEMBLIES
Report Number	16989-2, 3017560, 3086519, 3148793SAT-002B, G102549113
Spec ID	29555

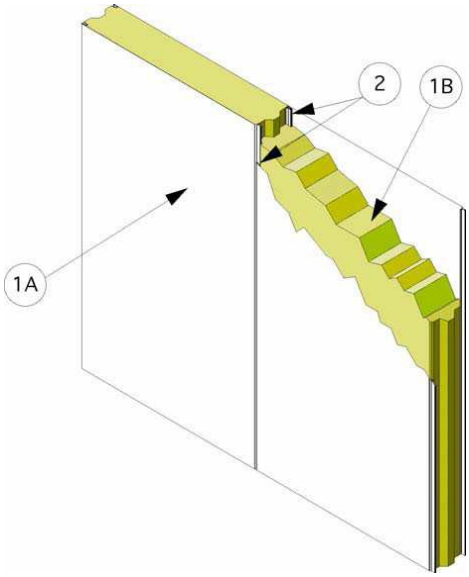
DRAWING INDEX

MSN/IMWP 60-01

MSN/IMWP 60-01

Division 7 – Thermal and Moisture Protection
07 42 00 Wall Panels
07 42 13.19 Insulated Metal Wall Panels

Metl-Span, A Division of NCI Group, Inc.
Design Number MSN/IMWP 60-01
Insulated Wall Panels
Thermalsafe® Panels
ASTM E119 (2016), UL 263 (2011), CAN/ULC-S101 (2007)
Fire Resistance Rating: 1 Hour



1. **CERTIFIED MANUFACTURER:** Metl-Span, A Division of NCI Group, Inc.

   CERTIFIED PRODUCT: Insulated Wall Panels

   CERTIFIED MODEL: Thermalsafe® Panels

   Steel or stainless steel faced panels, with a core of mineral wool insulation. The panels are nominally 42 in. wide, having a max. length of 50 ft. and a min. thickness of 4 in. The panels are constructed with tongue and groove interfaces on the long dimension edges, which mate with adjacent panels. Panels may be installed with the long dimensions placed horizontally or vertically. When constructing a wall, the panel perimeter is secured with panel attachment angles or channel, as described in Item 3.

   The wall panels are constructed of the following materials:

   A. PANEL FACING – The panel facing is constructed of min. 26 GA galvanized steel with painted or mill finish, or min. 26 GA stainless steel with mill finish. The panels are fashioned with tongue and groove mating edges located on the long dimension panel edges.

   B. MINERAL WOOL INSULATION – The panel core consists of nominal 8.5 pcf mineral wool batt that is sandwiched between the panel facing and adhered to the panel facing with a polyurethane adhesive. The long dimension edges of the panel core are constructed with a tongue and groove interface that mates with adjoining panels.

Date Revised: June 21, 2016
Project No. G102549113

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2. **SILICON SEALANT:** (Optional, Not Required for Fire Resistance) Install a nominal 3/16 in. bead of one-component, medium modulus, non-corrosive silicone sealant to the female side of the panel facing (Item 1A) joints prior to joining the panels.

3. **PANEL SUPPORTS:** (Optional, Not Required for Fire Resistance) Panels are attached to side perimeter panel supports when installed horizontally, or top and bottom panel supports when installed vertically. Additionally, horizontally oriented wall panels will be supported on the bottom edge of the bottom panel with min. 18 GA steel channel that is secured to the foundation and engages the tongue and groove configuration of the panel edge. Secure the panel supports to the adjacent construction as required by Code. Any of the following methods of panel attachment is recognized in this Listing:

   A. CHANNEL – Min. 18 GA galvanized steel C-shaped channel or track, having a web width 1/8 in. larger than the wall thickness and min. flange length of 2 in. Secure panels to double supports with min. No. 12, self-drilling or self-tapping steel screws, having sufficient length to extend through the support flange and fully engage the panel face. Space the screws max. 12 in. on center (oc).

   B. SINGLE SUPPORTS – Min. 16 GA. steel sheeting angles having min. 2 in. flanges, or equivalent structural member providing equal or greater support. Secure panels to single supports with min. No. 14, self-drilling or self-tapping steel screws, with sufficient length to extend through the panel and completely into the steel support on the opposite side. Space the screws max. 18 in. oc and 3 in. from each joint.

   C. DOUBLE SUPPORTS – Min. 16 GA. steel sheeting angles having min. 2 in. flanges, or equivalent structural member providing equal or greater support. Secure panels to double supports with min. No. 12, self-drilling or self-tapping steel screws, having sufficient length to extend through the support flange and fully engage the panel face. Space the screws max. 12 in. oc.

   D. INTERMEDIATE SUPPORTS – (Optional, Not Required for Fire Resistance) Where panel walls require additional support for project specific reasons, intermediate steel supports may be installed, in accordance with manufacturer's instructions, on the panel span between the end panel support connections, using No. 14, self-drilling or self-tapping screws, having sufficient length to extend through the panel and completely into the steel support on the opposite side, or No. 10 FabLok rivets or 9/32 in. Bulb-Tite rivets installed through the support flange and fully engage the panel face. Spacing is determined by project requirements.