



LISTING INFORMATION OF Metl-Span, LLC THERMALSAFE™ 8" Thick 3 Hour Fire Rated Panels

SPEC ID: 29868

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

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**PRODUCT COVERED**

***THERMALSAFE™ Mineral Fiber Panels***

**PRODUCT DESCRIPTION**

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**

Nominal Density: 8.5 pcf (pounds per cubic foot)

<b>Panel Thickness</b>	<b>Design No.</b>	<b>Rating</b>
8"	MSN/MWP 180-01	3 hours

<u>Attribute</u>	<u>Value</u>
Criteria	NFPA 251 (2006)
Criteria	CAN / ULC S101 (2007)
Criteria	UL 263 (2011)
Criteria	ASTM E119 (2012)
Criteria	ASTM E119 (2015)
CSI Code	07 42 13 Metal Wall Panels
Intertek Services	Certification

Listed or Inspected	LISTED
Listing Section	WALL ASSEMBLIES
Report Number	10580-114730, 10580-122055 EEV, 100931941, G102549113
Spec ID	29868

# DRAWING INDEX

MSN/IMWP 180-01

# MSN/IMWP 180-01

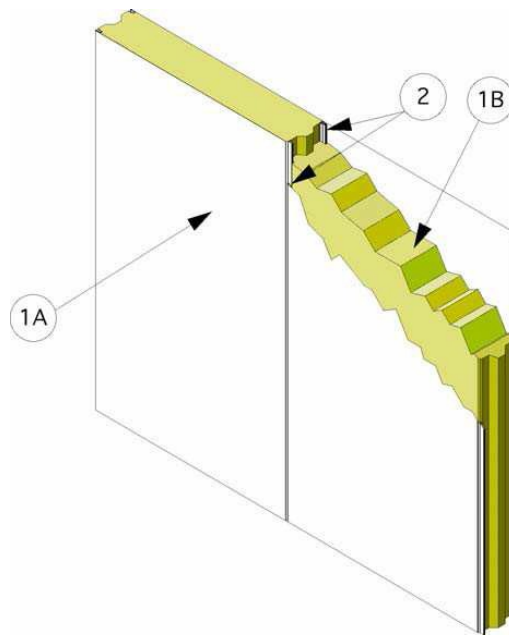
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Metl-Span, A Division of NCI Group, Inc.  
 Design Number MSN/IMWP 180-01  
 Insulated Wall Panels  
 Thermalsafe® Panels  
 ASTM E119 (2016), UL 263 (2011), CAN/ULC S101 (2007), NFPA 251 (2006)  
 Fire Resistance Rating: 3 Hour

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

**CERTIFIED PRODUCT:** Insulated Metal Wall Panels

**CERTIFIED MODEL:** Thermalsafe® Mineral Fiber Panels

Use nominal 8 in. thick, 42 in. wide steel faced panels with a core of mineral wool insulation. The panels are constructed with tongue and groove interfaces on the long dimension edges that mate with adjacent panels. Panels may be installed with the long dimensions placed horizontally or vertically.

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 joint of the insulated metal wall panel (Item 1) joints prior to joining the panels.

3. **PANEL JOINT FASTENERS:** (Not Shown) Use min. 1/8 in. diameter steel or stainless steel rivets, or min. No. 6-20, min. 3/8 in. long TEKS screws with a min. 1/4 in. diameter head, installed through the tongue and groove joints of the insulated metal wall panels on both the interior and exterior sides of the wall assembly. When using rivets, ensure rivets are of sufficient length to penetrate through the male/female interface of the tongue and groove joint on each side

Date Revised: May 12, 2016  
 Project No. G102549113



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of the insulated metal wall panels. Install fasteners 1/4 in. from the panel edge and spaced max. 36 in. on center (oc) along the length of the panel joints.

As an alternative installation, the fasteners may be installed on one side of the wall assembly only. When this installation method is used, the max. 3 hour fire resistance rating shall apply only to the side with the fasteners (i.e. fastened side exposed to the fire). The fire resistance rating for the opposite (non-fastened) side shall be a max. of 2 hours.

- 4. PANEL SUPPORTS:** (Not Shown) Attach insulated metal wall panels (Item 1) to side perimeter panel supports when installed horizontally, or top and bottom panel supports when installed vertically. As an option, horizontally oriented wall panels may be supported on the bottom edge of the bottom panel with min. 16 GA steel channel clip 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. 16 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 flanges with min. No. 12, self-drilling or self-tapping steel screws, having sufficient length to extend through the channel flange and fully engage the panel face. Space the screws max. 12 in. oc.

B. SINGLE SUPPORT – 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 SUPPORT – 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 SUPPORT – (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 use 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.

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