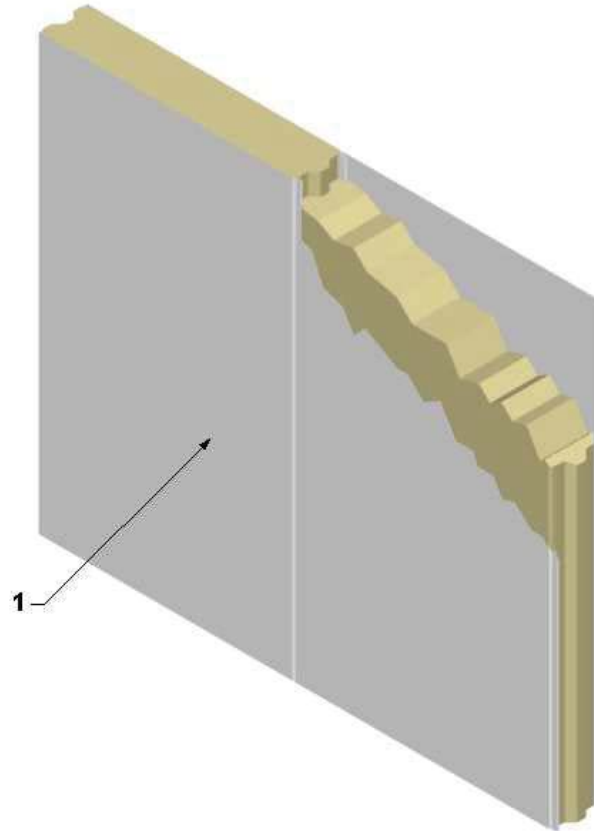


---

Design Number MSN/IMWP 180-01  
Wall Assemblies  
Metl-Span a Division of NCI Group, Inc.  
ThermalSafe™ Mineral Fiber Panels  
ASTM E 119 (2012)  
UL 263 (2011)  
CAN/ULC S 101 (2007)  
NFPA 251 (2006)  
Rating: 3-Hours  
Superimposed Load: None

---



1. CERTIFIED COMPANY: Metl-Span a division of NCI Group, Inc.

CERTIFIED PRODUCT: Insulated Metal Wall Panels

MODEL: ThermalSafe™ Mineral Fiber Panels

INSULATED METAL WALL 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. SILICONE 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 minimum 1/8 in. diameter steel or stainless steel rivets or minimum #6-20, minimum 3/8 in. long TEKS screws with a minimum 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 of the insulated metal wall panels. Install fasteners 1/4 in. from the panel edge and spaced maximum 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 maximum 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 maximum 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 minimum 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:** Minimum 16 GA galvanized steel C-shaped channel, or track, having a web width 1/8 in. larger than the wall thickness and minimum flange length of 2 in. Secure panels to

flanges with minimum #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 maximum 12 in. oc.

- B. **SINGLE SUPPORT:** Minimum 16 GA steel sheeting angles having minimum 2 in. flanges, or equivalent structural member providing equal or greater support. Secure panels to single supports with minimum #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 maximum 18 in. oc and 3 in. from each joint.
- C. **DOUBLE SUPPORT:** Min. 16 GA steel sheeting angles having minimum 2 in. flanges, or equivalent structural member providing equal or greater support. Secure panels to double supports with minimum # 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 maximum 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 #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 #10 FabLok rivets installed through the support flange and fully engage the panel face. Spacing is determined by project requirements.