

Kingspan Insulated Panels, Inc.
Design No. KIP/CWP 180-02
Insulated Wall Panels
K-ROC FX Fire Rated Wall Panels
ASTM E119 and CAN/ULC S101
Ratings: 1, 2, and 3 Hour

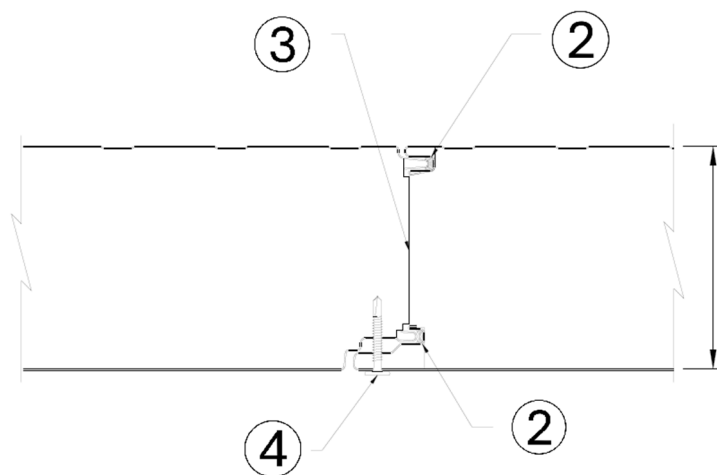


Figure 1. K-ROC FX Wall Assembly

- 1. INSULATED WALL PANELS:** Steel-faced panels, with a core of mineral wool insulation

TABLE OF RATINGS:

PANEL THICKNESS	FIRE RESISTANCE RATING
4 in.	1 Hour
6 in.	2 Hour
8 in.	3 Hour

CERTIFIED PRODUCT: Kingspan Insulated Panels, Inc., K-ROC FX Fire Rated Wall Panels

The panels are max. 42 in. wide. The panels are constructed with tongue and groove interfaces on the long dimension edges that mate with adjacent panels. Panels may be installed with long dimensions placed horizontally or vertically.

When constructing a wall, the panel perimeter is secured with panel attachment angles as

described in Item 5. The wall panels are constructed of the following materials:

- A. **PANEL FACING** – The panel facing is min. 26 GA galvanized or galvalume steel with a painted or mill finish, or min. 26 GA stainless steel with mill finish.
- B. **MINERAL WOOL INSULATION** – The panel core consists of nominal 8.5 pcf mineral wool batt adhered to the panel facing with a polyurethane adhesive.

- 2. SEALANT:** Install a nominal 1/4 in. bead of non-skinning butyl sealant to the interior and exterior side of the panel joints prior to joining the panels.
- 3. INTUMESCENT:** Refer to Figure 1. Apply a layer of 1mm thick Promat Promaseal®-LW Intumescent Tape in the interlocking joints of



the mineral wool core of each panel prior to joining the panels with the widths of 50 mm for 4 in. panels and 60 mm for the 6 in. and 8 in. panels.

4. **PANEL CONNECTING JOINT SCREWS:** Install stitching 36 in. on center (oc) on both the interior and exterior side of the 8 in. panel when a 3-hour fire rating is required from both sides. Install stitching 36 in. oc on the side of the 8 in. panel requiring a 3-hour fire rating when a fire rating from only one side is required. Stitching at the top and bottom of the 8 in. panel joints from both sides is required in either case. Stitching at the top and bottom of the 4 in. or 6 in. panel joints from both sides is required for a 1-hour fire rating when using 4 in. panels and a 2-hour fire rating when using 6 in. panels. The fire resistance rating is valid from either direction when using 4 in. or 6 in. panels. Use 1 in. long steel or stainless-steel No. 14 screws with 3/8 in. diameter heads, or No. 14-13 × 1-1/2 in. long DP1 pancake-head screws.

5. **PERIMETER SUPPORTS (Not Shown):** Panels are attached to perimeter supports on both sides when installed horizontally, or top and bottom panel supports when installed vertically. Additionally, horizontally oriented wall panels must 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.
6. **INTERMEDIATE SUPPORTS (Optional for Fire Resistance, Not Shown):** Where the panels 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. Spacing is determined by project requirements.



This Design Listing is intended to provide guidance for on-site verification of the installation of system components and shall not be used in place of the manufacturer's published installation instructions. The manufacturer is responsible for providing installation instructions and requirements that ensure compliance with the system as tested and evaluated by Intertek. Installation must comply with this Design Listing, the manufacturer's installation instructions, and the applicable Code. In the event of conflict, this Design Listing governs.

Compliance of the assembly described in this Design Listing with the referenced standard(s) is contingent upon verification that the field-constructed assembly is consistent with the assembly described herein. Intertek-certified products may be verified by the authorized Intertek label. Products not bearing the Intertek label shall be verified by the Authority Having Jurisdiction as meeting the specifications stated herein.

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