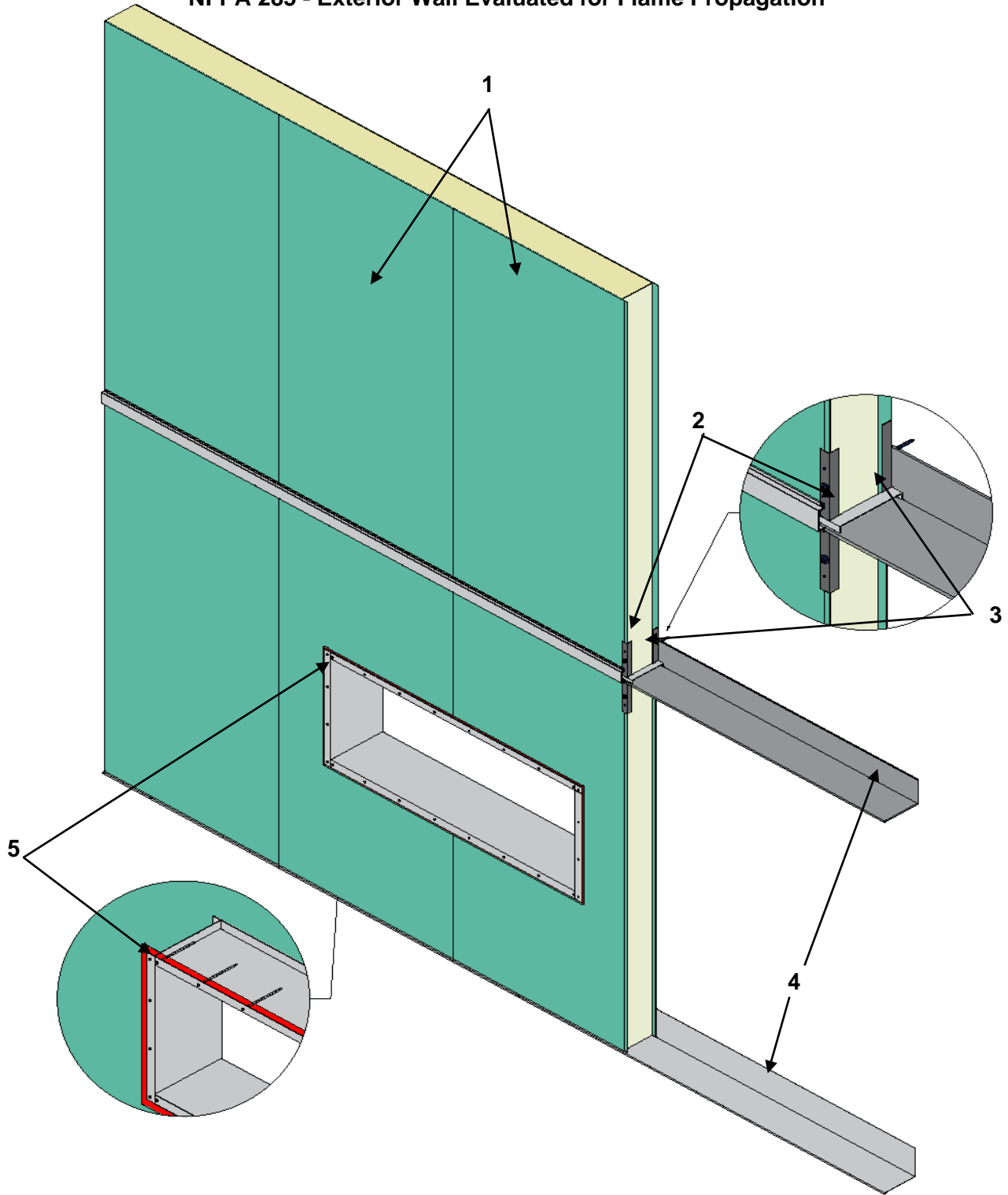


QAI Design B1142-1c – Vertical Panel Installation
NFPA 285 - Exterior Wall Evaluated for Flame Propagation

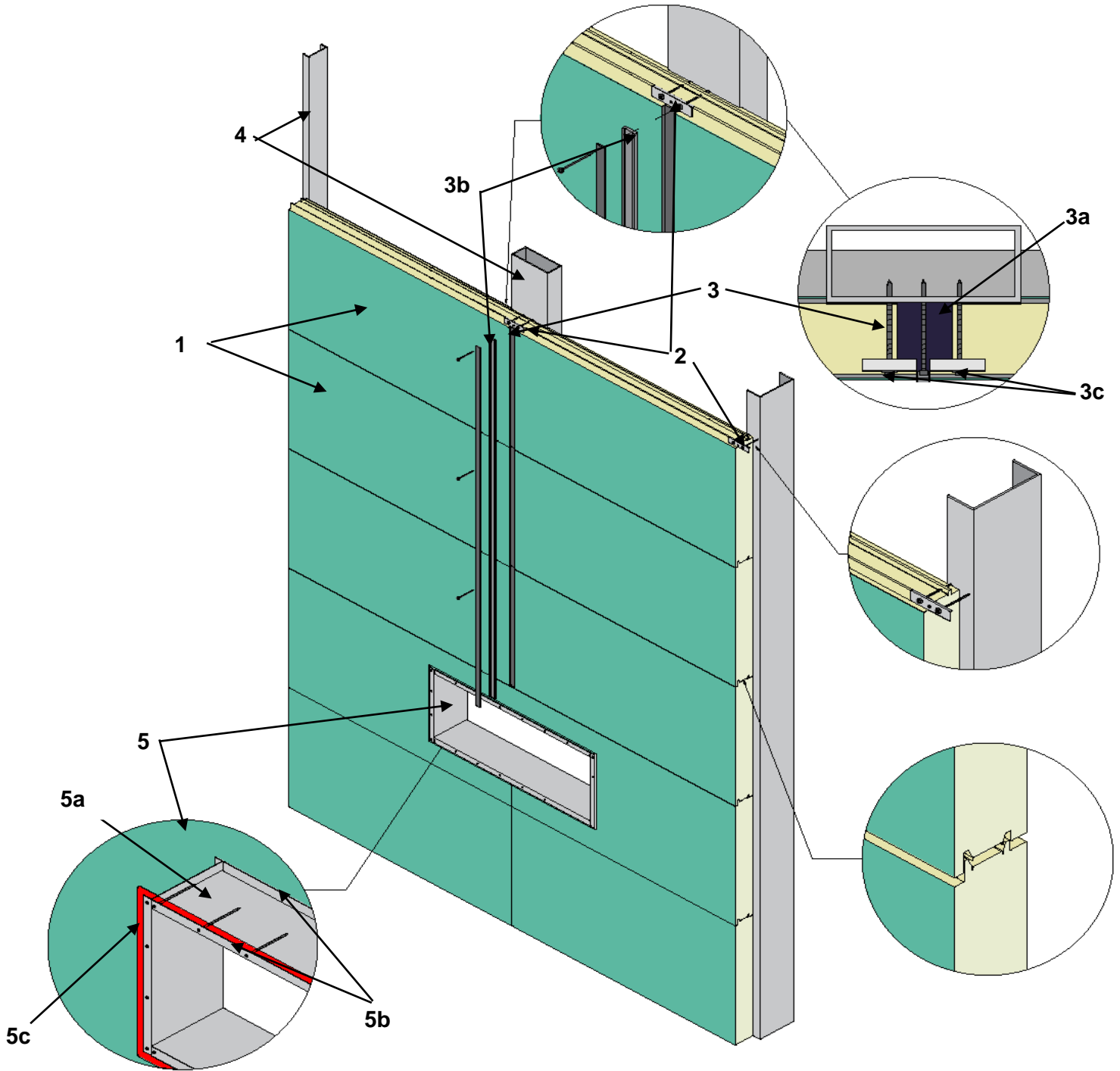


QAI Design B1142-1c – Vertical Panel Installation Details

No.	COMPONENT	DESCRIPTION	
1	Insulated Metal Panels	Manufacturer:	Falk Panel LLC
		Approved Types:	HFW-40 Panels.
		Thickness:	2 inches – 6 inches (51 – 152 mm).
		Core:	Polyisocyanurate (PIR) maximum density 2.7 lbs/ft ³ (43.2 kg/m ³) with potential heat of combustion of 11,184 Btu/lbs (26,013 kJ/kg) per NFPA 259.
		Skins:	Minimum 26 Gauge (0.0159 inches / 0.404 mm) G60 galvanized steel.
		Installation:	Installation to be done in accordance with Falk Production, LLC Installation Instructions, Design Professional, or the Authority Having Jurisdiction.
2	Panel Fastener	Approved Types:	Falk ¼-inch (6 mm) thickness hidden clips with mechanical connection per Falk Production Installation Instructions and design specifications.
		Installation:	Mechanical connection of the panel to underlying structural members spaced per site specifications to resist intended design loads as determined by the Design Professional and approved by the Authority Having Jurisdiction.
3	Panel Edge Flashing	Approved Types	Minimum 26 Gauge (0.0159 inches / 0.404 mm) G60 galvanized steel.
		Installation:	Required at vertical panel connections as drip flashing and fire-blocking in accordance with design specifications and the appropriate model code.
4	Structural Members	Approved Types	Structural supports, corrosion resistant, sized per project design.
		Installation:	Design and spacing and installation of structural members as required to resist intended design loads as determined by the Design Professional and approved by the Authority Having Jurisdiction.
5	Window Flashing	Approved Types	Minimum 16 Gauge (0.064 inches / 1.6 mm) thickness with 2-inch (51 mm) leg length of depth to cover panel width, G60 galvanized steel C-channel. Falk window trim.
		Installation:	Steel C-channel is required installed around the window perimeter fully covering the underlying panel foam. The steel C-channel is required fastened at maximum 12 inches (305 mm) spacing with minimum ¾-inch (19 mm) self-tapping screws to the underlying insulated metal panel. Over the steel C-channel, 24 Gauge (0.020-inches / 0.51 mm) thickness Falk Panel trim is attached on the interior and exterior of the window opening, covering the steel C-channel, with Falk Trim anchored with #8 ¾-inch (19 mm) length self-tapping screws spaced at maximum 6 inches (152 mm) on center. 3M Fire Barrier CP25WB+ applied in a single bead is required around the window opening to seal the steel C-channel to the underlying insulated metal panel (shown red in pictures).

Note: Spacing of structural supports and anchoring of Falk panels to the underlying structure are to be designed in accordance with the local codes.
Wind resistance and seismic considerations are outside the scope of this QAI listing.

QAI Design B1142-1c – Horizontal Panel Installation
NFPA 285 - Exterior Wall Evaluated for Flame Propagation



QAI Design B1142-1c – Horizontal Panel Installation Details

No.	COMPONENT	DESCRIPTION	
1	Insulated Metal Panels	Manufacturer:	Falk Panel LLC
		Approved Types:	HFW-40 Panels.
		Thickness:	2 inches – 6 inches (51 – 152 mm).
		Core:	Polyisocyanurate (PIR) maximum density 2.7 lbs/ft ³ (43.2 kg/m ³) with potential heat of combustion of 11,184 Btu/lbs (26,013 kJ/kg) per NFPA 259.
		Skins:	Minimum 26 Gauge (0.0159 inches / 0.404 mm) G60 galvanized steel.
		Installation:	Installation to be done in accordance with Falk Production, LLC Installation Instructions, Design Professional, or the Authority Having Jurisdiction.
2	Panel Fastener	Approved Types:	Falk ¼-inch (6 mm) thickness hidden clips with mechanical connection per Falk Production Installation Instructions and design specifications.
		Installation:	Mechanical connection of the panel to underlying structural members required at each panel end and spaced per site specifications to resist intended design loads as determined by the Design Professional and approved by the Authority Having Jurisdiction.
3	Panel Joint	Description:	Maximum ¾-inch (19 mm) joint width.
		Installation:	<ul style="list-style-type: none"> a) Mineral wool insulation packed into vertical joint. b) Falk P/N FJC2 20 Gauge (0.036 inches / 0.9 mm) galvanized steel trim of 6 inches (152 mm) width was installed over the joint, anchored with anchored with ¾-inch (19 mm) self-tapping screws spaced at 4 inches (102 mm) vertically along each panel. c) 3M Fire Barrier CP25WB+ fire caulking applied in a single bead between the joint trim, and underlying insulated metal panel, on each panel to trim interface.
4	Structural Members	Approved Types	Structural supports, corrosion resistant, sized per project design.
		Installation:	Design and spacing of structural members to be installed to resist intended design loads as determined by the Design Professional, or the Authority Having Jurisdiction.
5	Window Flashing	Approved Types	Minimum 16 Gauge (0.064 inches / 1.6 mm) thickness with 2-inch (51 mm) leg length of depth to cover panel width, G60 galvanized steel C-channel. Falk window trim.
		Installation:	<ul style="list-style-type: none"> a) Steel C-channel is required installed around the window perimeter fully covering the underlying panel foam. The steel C-channel is required fastened at maximum 12 inches (305 mm) spacing with minimum ¾-inch (19 mm) self-tapping screws to the underlying insulated metal panel. b) 24 Gauge (0.020-inches / 0.51 mm) thickness Falk Panel trim is attached on the interior and exterior of the window opening, covering the steel C-channel, with Falk Trim anchored with #8 ¾-inch (19 mm) length self-tapping screws spaced at maximum 6 inches (152 mm) on center. c) 3M Fire Barrier CP25WB+ fire caulking applied in a single bead is required around the window opening to seal the steel C-channel to the underlying insulated metal panel.

Note: Spacing of structural supports and anchoring of Falk panels to the underlying structure are to be designed in accordance with the local codes.
Wind resistance and seismic considerations are outside the scope of this QAI listing.