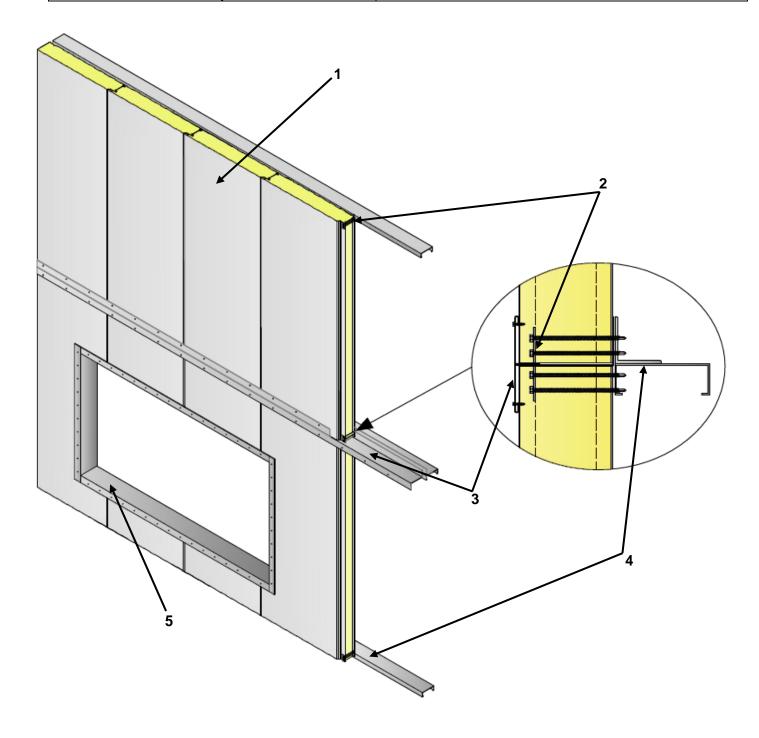


QAI Design B1142-1d – Vertical Panel Installation CAN/ULC S134 - Exterior Wall Evaluated for Use in Non-Combustible Construction

RATINGS PER SECTION 3.1.5.5 OF THE NATIONAL BUILDING CODE OF CANADA (NBC) 2020			
Heat Flux at 3.5 meters	≤ 35 kW/m ²		
Flame Spread	< 5.0 m		



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QAI Design B1142-1d - Vertical Panel Installation Details

No.	COMPONENT	DESCRIPTION		
		Manufacturer:	Falk Panel LLC	
		Approved Types:	HFW-40 Panels.	
		Thickness:	51 – 152 mm (2 - 6 inches).	
		Core:	Polyisocyanurate (PIR) maximum density 43.2 kg/m³ (2.7 lbs/ft³) with	
1	Insulated Metal		potential heat of combustion of 26,013 kJ/kg (11,184 Btu/lbs) per NFPA	
'	Panels		259.	
		Skins:	Minimum 26 Gauge (0.45 mm / 0.0179 inches) G60 galvanized steel.	
		Installation:	Installation is to be done in accordance with Falk Production, LLC	
			Installation Instructions, Design Professional, or the Authority Having Jurisdiction.	
		Approved Types:	Falk 6 mm (1/4-inch) thickness hidden clips with mechanical connection	
			following Falk Installation Instructions and design specifications.	
2	Panel Fastener	Installation:	Mechanical connection of the panel to underlying structural members is to	
	Failer asterier		be 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	Approved Types	Minimum 24 Gauge (0.61 mm / 0.0239 inches) G60 galvanized steel.	
		Installation:	Panel edge flashing is required at vertical panel connections as drip flashing	
	Flashing		and fire-blocking as detailed by Falk's installation instructions, Design	
			Professional, or the Authority Having Jurisdiction and the appropriate model code.	
		Approved Types	Structural supports, corrosion resistant, sized per project design.	
	Structural	Installation:	Design and spacing and installation of structural members as required to	
4	Members	inotaliation.	resist intended design loads as determined by the Design Professional and	
			approved by the Authority Having Jurisdiction.	
		Approved Types	Minimum 16 Gauge (1.52 mm / 0.60 inches) thickness with 51 mm (2-inch)	
			leg length of depth to cover panel width, G60 galvanized steel C-channel.	
			Falk window trim.	
		Installation:	Steel C-channel is required to be installed around the window perimeter	
			fully covering the underlying panel foam. The steel C-channel is required to	
			be fastened at maximum 305 mm (12 inches) spacing with minimum 19 mm	
5	Window		(3/4-inch) self-tapping screws to the underlying insulated metal panel.	
	Flashing		24 Gauge (0.61 mm / 0.0239 inches) thickness Falk Panel trim is to be	
			attached on the interior and exterior of the window opening, covering the	
			steel C-channel, and is to be anchored with #8 19 mm (3/4-inch) length self-tapping screws spaced at maximum 152 mm (6 inches) on center. 3M Fire	
			Barrier CP25WB+ is to be applied in a single bead is required around the	
			window opening to seal the steel C-channel to the underlying insulated	
			metal panel.	
			motal pariol.	

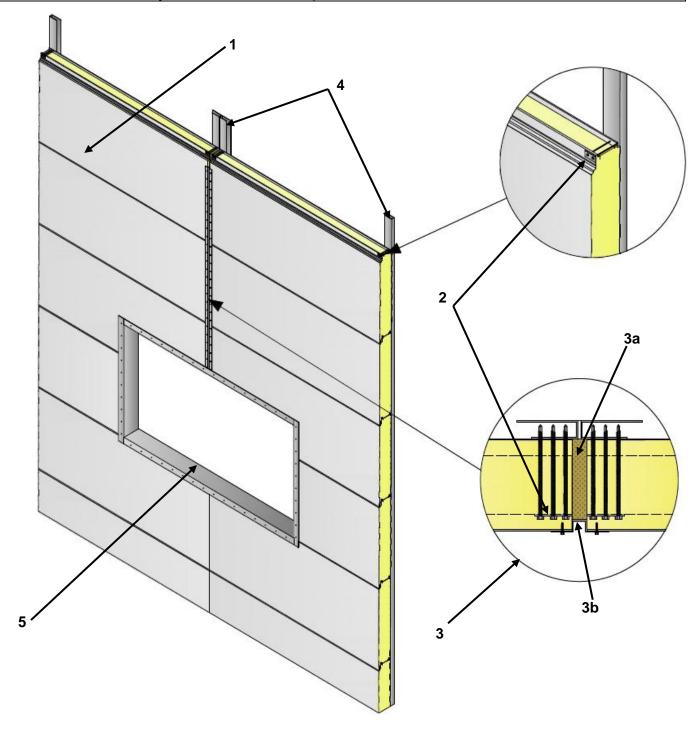
Note 1: Spacing of structural supports and anchoring of Falk panels to the underlying structure are to be designed in accordance with the local codes.

Note 2: Wind resistance and seismic considerations are outside the scope of this QAI listing



QAI Design B1142-1d – Horizontal Panel Installation CAN/ULC S134 - Exterior Wall Evaluated for Use in Non-Combustible Construction

RATINGS PER SECTION 3.1.5.5 OF THE NATIONAL BUILDING CODE OF CANADA (NBC) 2020			
Heat Flux at 3.5 meters	≤ 35 kW/m ²		
Flame Spread	< 5.0 m		



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QAI Design B1142-1d - Horizontal Panel Installation Details

No.	COMPONENT	DESCRIPTION	
		Manufacturer:	Falk Panel LLC
		Approved Types:	HFW-40 Panels.
		Thickness:	51 – 152 mm (2 - 6 inches).
		Core:	Polyisocyanurate (PIR) maximum density 43.2 kg/m³ (2.7 lbs/ft³) with
1	Insulated Metal		potential heat of combustion of 26,013 kJ/kg (11,184 Btu/lbs) per NFPA
'	Panels		259.
		Skins:	Minimum 26 Gauge (0.45 mm / 0.0179 inches) G60 galvanized steel.
		Installation:	Installation is to be done in accordance with Falk Production, LLC
			Installation Instructions, Design Professional, or the Authority Having
			Jurisdiction.
		Approved Types:	Falk 6 mm (1/4-inch) thickness hidden clips with mechanical connection
			following Falk Installation Instructions and design specifications.
2	Panel Fastener	Installation:	Mechanical connection of the panel to underlying structural members is to
			be spaced per site specifications to resist intended design loads as
			determined by the Design Professional and approved by the Authority
		Descriptions	Having Jurisdiction.
		Description:	Maximum 25 mm (1-inch) joint width.
	Panel Joint	Installation:	a) Mineral wool insulation to be packed into vertical joint.b) Falk FJC5 24 Gauge (0.024 inches / 0.61 mm) galvanized steel joint
			cover of 102 mm (4 inches) width to be installed over the joint, and to be
3			anchored with minimum #8 x 19 mm (3/4-inch) self-tapping screws
3	i aner John		spaced at 102 mm (4 inches) vertically along each panel.
			3M Fire Barrier CP25WB+ fire caulking is to be applied in a single bead
			between the joint trim, and underlying insulated metal panel, on each panel
			to trim interface.
		Approved Types	Structural supports, corrosion resistant, sized per project design.
_	Structural	Installation:	Design and spacing of structural members to be installed to resist intended
4	Members		design loads as determined by the Design Professional, or the Authority
			Having Jurisdiction.
		Approved Types	Minimum 16 Gauge (1.52 mm / 0.60 inches) thickness with 51 mm (2 inch)
			leg length of depth to cover panel width, G60 galvanized steel C-channel.
			Falk window trim.
		Installation:	Steel C-channel is required to be installed around the window perimeter
			fully covering the underlying panel foam. The steel C-channel is required to
			be fastened at maximum 305 mm (12 inches) spacing with minimum 19 mm
5	Window		(3/4-inch) self-tapping screws to the underlying insulated metal panel.
	Flashing		24 Gauge (0.61 mm / 0.0239 inches) thickness Falk Panel trim is to be
			attached on the interior and exterior of the window opening, covering the
			steel C-channel, and is to be anchored with #8 19 mm (3/4-inch) length self-
			tapping screws spaced at maximum 152 mm (6 inches) on center. 3M Fire Barrier CP25WB+ is to be applied in a single bead is required around the
			window opening to seal the steel C-channel to the underlying insulated
			metal panel.
			metal panel.

Note 1: Spacing of structural supports and anchoring of Falk panels to the underlying structure are to be designed in accordance with the local codes.

Note 2: Wind resistance and seismic considerations are outside the scope of this QAI listing.