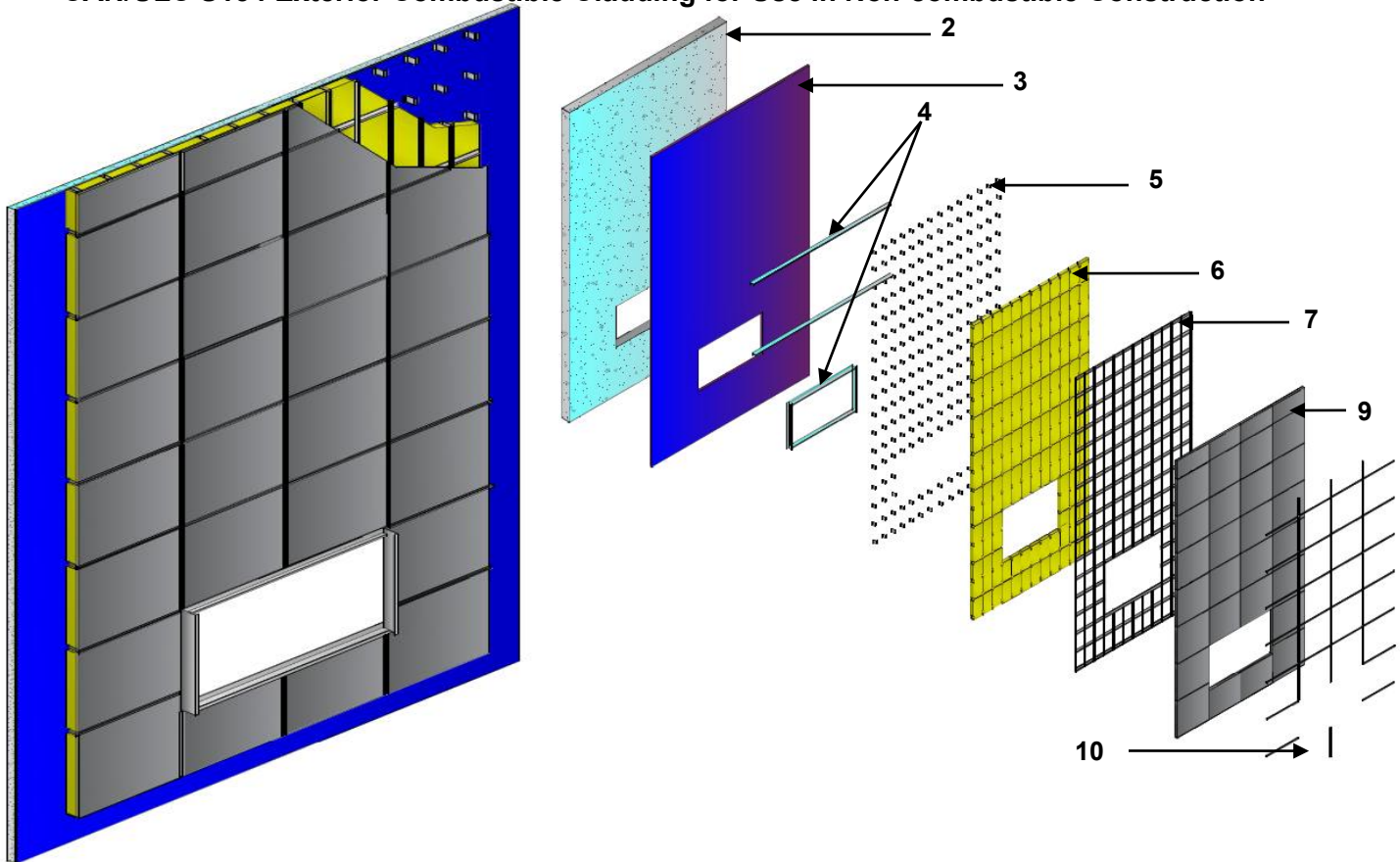


**QAI Design B1120-1 – AL13**  
**CAN/ULC S134 Exterior Combustible Cladding for Use in Non-combustible Construction**



**RATINGS**

<b>Heat Flux @ 3.5 meters</b>	<b>≤ 35 kW/m<sup>2</sup></b>
<b>Flame Spread</b>	<b>&lt; 5.0 m</b>

No.	COMPONENT	DESCRIPTION
1	Wall Structure (Not shown)	Approved Types: Concrete / Masonry or Steel stud with insulation classified as non-combustible per CAN/ULC S114.
		Thickness: Per National Building Code and site requirements.
		Installation: Per National Building Code and site requirements.
2	Exterior Sheathing (where Applicable)	Approved Types: Type X Gypsum complying with ASTM C1396 or ASTM C1177
		Thickness: Minimum 16 mm (5/8 inches).
		Installation: Joints staggered, installation per applicable code. Joint taping optional.
3	Weather Resistive Barrier (WRB)	Approved Types: Soprema Sopraseal 1100T
		Installation: Adhered with Mammouth Elastocol Stick Quick-dry primer per manufacturer's installation instructions.
4	Flashing	Approved Types: Minimum 1.02 mm (18 Gauge) G60 Galvanized Steel
		Installation: Required at window header, and at floor line locations.
5	ACS Thermal Clips	Approved Types: ACS Thermal Clips
		Installation: Anchored to wall structure over WRB per site design to resist load conditions, maximum spacing of 406 mm (16 inches) horizontally and 610 mm (24 inches) vertically.
6	Exterior Insulation	Approved Types: ROCKWOOL CAVITYROCK®
		Thickness: Minimum 102 mm (4 inches).
		Installation: Friction fit between ACS Thermal Clips.

## B1120- 1 - AL13 CAN/ULC S134 Exterior Wall Assembly Details Continued

7	Panel Girt System	Approved Types	Minimum 1.02 mm (18 Gauge) G60 Galvanized Steel
		Installation:	Located over ACS Thermal Clips, spaced at maximum 610 mm (24 inches) vertically. Connected to ACS Thermal Clips with 2 31.75 mm (1-1/4 inch) self-drilling screws.
8	System Clip (Not shown)	Approved Types:	AL13 supplied Fiber Reinforced Plastic or Polyamide
		Installation:	Each AL13 panel is installed using System Clips attached around the perimeter of the frame. They are to be spaced at a maximum distance of 406 mm (16") on center and 75 mm (3") from corners. System clips are approximately 21 mm x 13 mm thickness, by 100 mm length.
9	AL13 Aluminum Composite Panels (ACP)	Approved Types:	AL13 FR ACP labeled by QAI Laboratories
		Thickness:	Maximum 4 mm (0.157 inches).
		Installation:	Panels of maximum 1524 mm x 3048 mm (60 inches x 120 inches) are installed into panel girt system describe above. Panels are secured to the panel girt system with 19 mm (3/4 inch) self-drilling screws. Fastener schedule is to comply with the applicable building code and site requirements to resist service load conditions <sup>1</sup> per AL13 design instructions, and Design Professional, or Authority having jurisdictions requirements
10	Aluminum Trim	Approved Types:	AL13 supplied aluminum trim for use with AL13 panels.
		Installation:	Trim to be installed along panel joints per AL13 installation guidelines.

**Note 1: Gravity loads, Wind resistance and seismic considerations are outside the scope of QAI listing.**