



Installation guide

LAMINATED INSULATION PANEL WITH AIR
BARRIER MEMBRANE

Polyform

INSULATING SOLUTIONS

PRODUCT DESCRIPTION

AIRCLAD® is an insulating material consisting of an expanded polystyrene panel and an air barrier membrane that reduces air infiltration. AIRCLAD® must be installed on the exterior walls of buildings of any type of construction and is overlapped on two sides.

PANEL DIMENSIONS

Thicknesses: 1 in (25 mm), 1 ½ in (38 mm), 2 in (50 mm), 2 ¼ in (57 mm)

Width: 48 in (1220 mm)

Length: 96 in (2440 mm) and 108 in (2743 mm)

RESISTANCE & STANDARDS

CCMC

#13488-R Sheathing

#13490-R Air Barrier Panel

Thermal resistance

According to C-518: 1 in (25 mm) R 4,00 (RSI 0,68)

Compressive strength

According to ASTM D-1621: 18 lb/in² (124 kPa)

Flexural strength

According to ASTM C-203: 72 psi (497 kPa)

Water vapour permeability

According to ASTM E-96: 1,096 perm (63 ng/Pa . s . m)

Water absorption

According to ASTM D-2842: 1.7%

Banks

Rebated along the length of the panel.

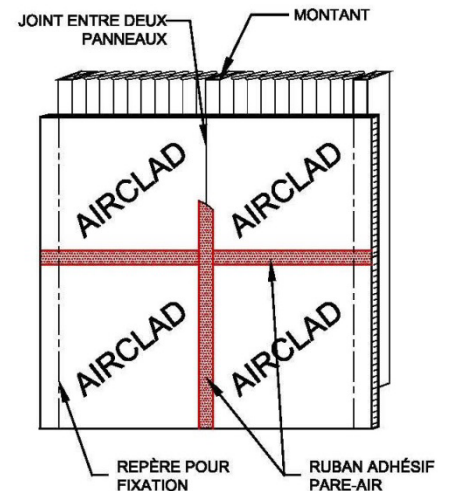
FIXATION

PANEL JUNCTION

Make the panel joints coincide with the wall studs. Seal all joints between panels with air barrier tape. Air barrier tape must be permeable to water vapour and must have been evaluated by CCMC.

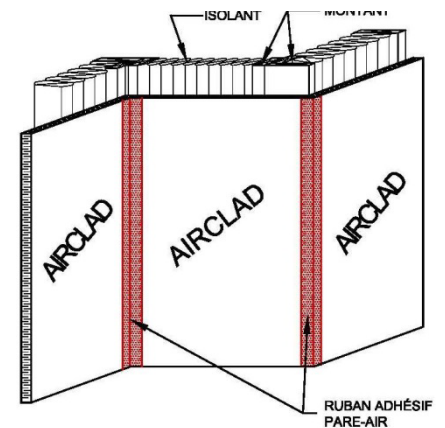
For the installation of masonry siding over AIRCLAD® panels, install the masonry fasteners on the panels in line with the studs. A minimum of 1" (25 mm) of air space is required between the AIRCLAD® panel and the masonry siding to allow water to drain through the weeping panels.

For exterior siding requiring nailing strips, align the furring to the studs and secure them in the studs through the AIRCLAD® panels.



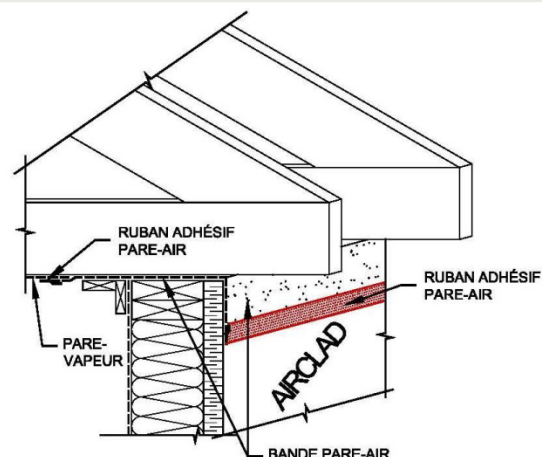
JUNCTION BETWEEN TWO EXTERIOR WALLS

For junctions between two exterior walls, whether it is an inbound or outgoing corner or a cantilevered section, overlap the AIRCLAD® panels and cover the joint with air barrier tape. For outgoing corners, be sure to completely cover the field of the AIRCLAD® panel that is not laminated with an air barrier.



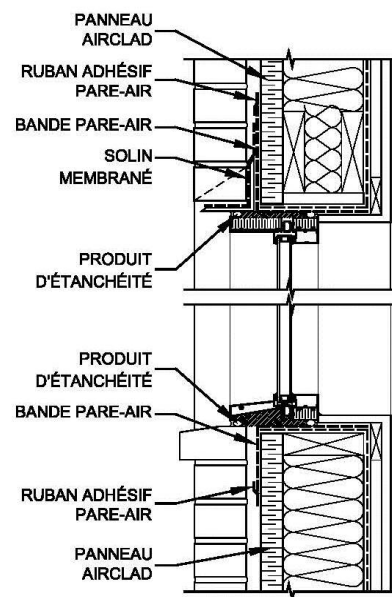
JUNCTION BETWEEN THE EXTERIOR WALL AND THE ROOF

For the junctions between an exterior wall and the roof, the top of the wall must be covered with an air barrier strip. This air barrier tape must, on the outside side, overlap the AIRCLAD® panel and be sealed to it with air barrier tape. On the interior side, the air barrier strip must be sealed to the ceiling vapour barrier to provide continuity of the air barrier.



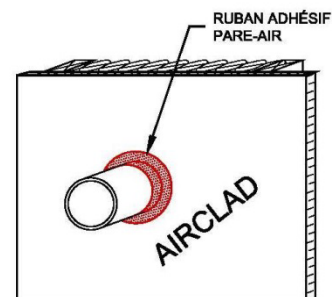
PERIMETER OF DOORS AND WINDOWS

AIRCLAD® panels must be cut to the rough measurements of door and window openings. An air barrier strip must be applied to the entire perimeter of the openings. The air barrier strip should overlap the interior vapour barrier and fold down on the outside over the AIRCLAD® panel. Air barrier tape should be installed at the junction of the AIRCLAD® panel and the air barrier tape.



WALL PENETRATION

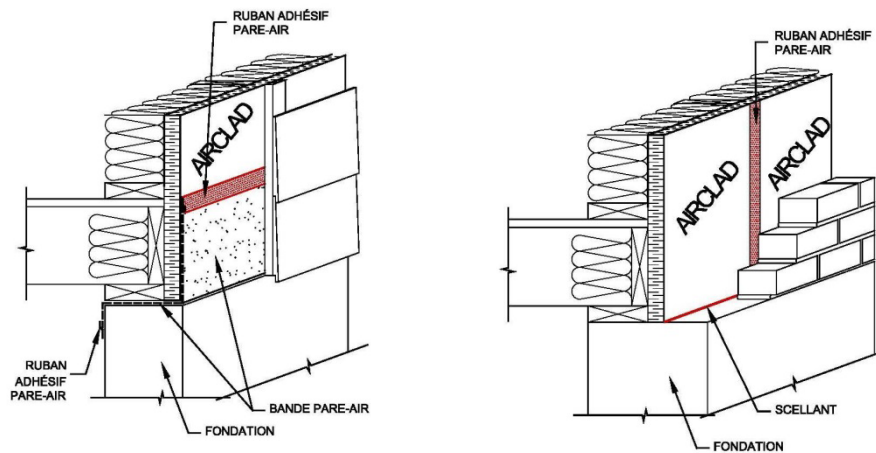
When an element needs to pass through an AIRCLAD® panel, the panel must first be cut to ensure the required opening. Once the panel is installed, the joint between the element and the AIRCLAD® panel must be sealed with an air barrier tape.



JUNCTION BETWEEN THE EXTERIOR WALL AND THE FOUNDATION

For masonry siding or other siding that requires flashing at the bottom of the wall, AIRCLAD® panels will need to be installed up to the foundation. The junction of the foundation with the AIRCLAD® panel will need to be sealed with a sealant.

For siding that does not require flashing, an air barrier strip must be installed between the base rail and the foundation. The air barrier tape will need to be reassembled on the AIRCLAD® panel and sealed with air barrier tape on the outside side. On the inside side, the air barrier tape will need to be sealed to the foundation wall with the air barrier tape.



GUI-AC-1604