

AIRLUX

METAL CLAD

PRODUCT SELL SHEET

Description

AIRLUX Metal Clad (AIRLUX MC) Impermeable is a self-adhered rubberized asphalt membrane with a factory-applied adhesive applied to a composite facer of cross-laminated HDPE and aluminum foil. AIRLUX MC allows the foil-faced layer to be exposed to weather elements for up to a year due to its excellent weathering and fire resistance.

Features

- Impermeable Air Vapor Barrier
- Superior weathering and fire resistance
- Impermeable to air, moisture vapor, and water
- Self-gasketing when penetrated and under compression with self-tapping screws
- Can be left exposed for up to 1 year

Usage

AIRLUX MC is designed for use as a self-adhered air, moisture vapor, and water resistive barrier. Can also be used for tying into metal on curtain walls, windows, and doorframes.

Basic Properties

Physical Property	Test Method	Value
Peel Resistance	ASTM D1876	8.04 lbf/in.
Seal Around Nails	ASTM D1970	Pass
Air Permeance	ASTM E2178	0.000006 L/(Pa*m2*s)
Tensile Strength, min	ASTM D412	1,020 psi
Puncture Resistance	ASTM E154	86.3 lbf
Water Absorption	ASTM D570	0.74%
Water Vapor Transmission	ASTM E2357	0.005 perms
Tear Strength	ASTM D4073	176.1 N

Stock Rolls:

36" x 75' (914mm x 22.86m)

Application

Surface Prep: All surfaces that AIRLUX MC adheres to must be clean of oil, dust, and excess materials. Acceptable substrates are exterior-grade gypsum sheathing, plywood, OSB, precast or cast-in-place concrete, concrete block, primed steel, aluminum mill finish, anodized aluminum, and galvanized metal. Strike masonry joints flush. Concrete surfaces must be smooth and without large voids, spalled areas, or sharp protrusions. Concrete must be cured for a minimum of 14 days and must be dry before AIRLUX MC is applied. Where curing compounds are used, they must be clear resin-based, without oil, wax, or pigments. Recommended minimum application temperature is -5 °C.

Insulation Application: The use of mechanical fasteners through AIRLUX MC along changes in plane, such as inside corners, may be required by some insulation manufacturers. Consult the insulation manufacturer prior to installation of insulation.

- **Insulation Clips:** Insulation clips should be mechanically fastened through the membrane into the substrate with a self-tapping screw. Apply number of insulation clips as recommended by the insulation manufacturer.
- **Insulation Adhesive:** Should be applied to insulation boards in a serpentine pattern to restrict movement of air behind the insulation. Alternatively, a full coat notched trowel application may be applied to the back of the board. Press insulation firmly in place.

Limitations: AIRLUX MC is designed for exposure up to 1 year if necessary to accommodate construction scheduling but is not designed for permanent exposure to ultraviolet light and should be covered as soon as practical after application. It is not to be used in direct contact with flexible PVC/vinyl membranes or gaskets. Consult the PVC/vinyl window manufacturer for compatibility.

Storage and Packaging

AIRLUX MC should be stored on the original pallets or an elevated platform. Material should be protected from weather or stored in an enclosed area that is not subjected to heat over 120°F (49°C). Double stacking is not recommended but use plywood sheeting if necessary.