



## CEMPLASTER FIBERSTUCCO CONTINUOUS INSULATION (CI) OPTIONS

Continuous insulation under stucco helps reduce thermal bridging, increase the overall R-value of the wall system and improves building comfort, safety and durability. Designers have the choice of many popular insulation options with the Cemplaster Fiberstucco System.

### FEATURES & BENEFITS

- Reduces air movement in wall
- Reduces life cycle CO2 emissions
- Controls dew point / moisture condensation in wall
- Long lasting, strong stable
- Cost effective
- Some may qualify as an additional Water-Resistive Barrier

### CI TYPES

Expanded polystyrene (EPS/GPS) - Expanded Polystyrene (EPS) or Graphite Polystyrene (GPS) foam insulation boards, when used as a sheathing, must have a nominal density of 1.5 lb./pcf, and a flame-spread index of 25 or less and a smoke developed index of not more than 450 when tested in accordance with ASTM E84. The boards must all comply with ASTM C578 as Type II.

EPS boards installed without sheathing, over open framing, must have a minimum nominal 1-inch thickness and have a 3/8" (9.5 mm) high tongue with compatible grooves for horizontal joints.

Extruded polystyrene (XPS) - XPS foam insulation boards must have a minimum nominal density of 1.5 lb./pcf and must comply with ASTM C578 as Type IV or V.

Polyisocyanurate - Polyisocyanurate foam insulation boards must have a nominal density of 2 lb./pcf and must comply with ASTM C1289 as Type II. Polyisocyanurate foam insulation boards must have a flame spread index of 25 or less and a smoke-developed index of 450 or less tested in accordance with ASTM E84 or UL723. Polyisocyanurate boards shall have all squared joints installed at horizontal and vertical edges supported by framing or blocking.

Mineral Wool - Boards must meet the requirements of ASTM C612 as Type IVA or IVB compliant mineral fiber block and board thermal insulation for both solid substrate and open frame construction. Mineral wool insulation boards must have a flame spread index of 0 and a smoke developed index of 0 in accordance with ASTM E84 or UL 723.

VOC: Varies

Manufacture Locations: varies

Typical Board Sizes:

2' x 8' (.61 m x 2.4 m)

4' x 8' (1.2 m x 2.4 m)

Edge Profile:

Square Edge

Tongue and Groove Edge

Board thickness:

Maximum 2" (51 mm)

Minimum 3/4" (19 mm)

## APPLICATION PROCEDURE

Job Conditions - Follow manufacturer's instructions. Mechanical attachment of insulation boards may be performed at lower temperatures over a dry surface.

Temporary Protection – Provide temporary and permanent protection to prevent water entry behind the system.

Substrate Preparation – Applications must be to an approved substrate with a maximum variation tolerance of 1/4" in 10'-0" (6.4 mm in 3.05 m). Contact Master Wall® for approved substrates and recommended attachment methods.

### Application

The Insulation Board can be easily cut using handsaws, power saws, sharp knives, or thermal cutting tools.

Follow manufacturer's recommendations for mechanical attachment, fasten the Insulation Board to the approved substrate using Wind-Lock ULP302 or similar retainers. See Master Wall® System Details for more information. Fastening patterns shall be determined by the requirements of the geographical conditions of the area, local code requirements, and the performance of the fasteners, retainers and their test results in conjunction with the specified substrate and the thickness of insulation board specified for use.

Install insulation board on the wall according to specification requirements. For further information and details, see the Master Wall® System Application Instructions.

Use manufacturer approved tapes, etc. where insulation board is being used as an air barrier or weather resistive barrier.

### Limitations

The maximum insulation board thickness is 2" (51 mm).

Insulation Board. shall not be used in interior applications.

Insulation board shall not have exposed edges. Seal following manufacturer-approved encapsulation methods.

Two water barriers are required for Master Wall Inc.® warranted stucco applications. Properly sealed insulation board can qualify as one layer.

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