

JM CONTINUOUS INSULATION WALL SYSTEM

FEATURING AP™ FOIL-FACED INSULATION BOARD



Design Your Wall System – Your Way

Cost Effective

The JM Continuous Insulation Wall System featuring AP™ Foil-Faced insulation board can save significant material and installed labor costs. That's because the product functions as a water-resistive barrier, vapor retarder and air barrier, eliminating the need for separate barrier components. It can also eliminate the need for exterior sheathing like Gypsum or OSB. Furthermore, the high R-value per inch results in thinner walls, which have a lower installed cost and fewer complications when integrating with windows, doors and building transitions.

Versatile

With its broad offering of qualified assemblies, the JM Continuous Insulation Wall System gives professionals the flexibility to optimize their design according to their priorities.

Qualified

The JM Continuous Insulation Wall System is an International Code Council Evaluation Services (ICC-ES) approved air barrier, water-resistive barrier, and vapor retarder for Types I-V construction. Furthermore, the JM Continuous Insulation Wall System is an Air Barrier Association of America (ABAA) evaluated air barrier material, assembly and water-resistive barrier.¹



1 JM AP Foil-Faced Insulation Board
 ½" – 4½" Thickness
 R-2.7–R-28

2 Continuous Insulation Fastener

- Johns Manville UltraFast® CI Fasteners²
- Johns Manville UltraFast® CI Plates²
- Capped Roofing Nail^{3,4}

3 Joint and Penetration Sealing²

- Johns Manville UltraFast® Flashing Tape
- 3M All Weather Flashing Tape 8067
- Tremco Spectrem® 1
- Any Sealant That Meets ICC-ES ESR 3398 Requirements

4 Cavity Insulation

- Johns Manville Fiber Glass Batts and Rolls
- Johns Manville Fiber Glass Blow-In and Spray-In
- Johns Manville Mineral Wool
- Johns Manville Corbond III® Spray Polyurethane Foam⁵
- Johns Manville Hybrid Systems
- Cellulose
- Any³
- None

5 Interior Wall Board⁶

6 Structure

- Concrete
- Concrete Masonry Unit
- Steel Stud
- Wood³

7 Exterior Sheathing

- ½" Thick Exterior Gypsum
- ¾" Thick Type X Exterior Gypsum
- OSB or Plywood³
- None

8 Independent Air, Water-Resistive Barrier²

- Perma-A-Barrier® VPS
- Tyvek® Commercial Wrap®
- Green Guard® Max Building Wrap
- Weathermate™
- Any Barrier That Meets Codes
- None

9 Exterior Cladding

- Brick
- Stucco
- Natural Stone
- Concrete Masonry Unit
- Terracotta
- Any³





Highest R-Value

Polyiso provides one of the highest thermal performance per inch of any rigid insulation:

Continuous Insulation Type	R-value per Inch of Thickness
Polyiso	6.0
XPS	5.0
EPS	4.0

Superior Fire Performance

Polyiso is a thermoset material; it forms a protective char layer and does not melt when exposed to flame. XPS is a thermoplastic material; it melts between 200°–210°F and may spread flammable material.

Qualified

- ICC-ES ESR 3398 Types I-V; Thermal; Air Barrier; Vapor Retarder; Water-Resistive/Weather Barrier
- ABAA Evaluated Air Barrier Material & Assembly
- NFPA 285, Fire Test Wall Assemblies
- AC 71, Water-Resistive Barrier Tests Materials & Assemblies
- ASTM E331, Water Leakage Test Wall Assemblies
- ASTM E1233, Wind Event Test Wall Assemblies
- ASTM E2178, Air Permeance Test Materials
- ASTM E2357, Air Leakage Test Wall Assemblies
- Intertek Listed Assembly JMC/FBI 30-01, JMC/FBI 30-02

Warrantied

All Johns Manville products are sold subject to Johns Manville’s Limited Warranty and Limitation of Remedy. For a copy of these documents, call 800.654.3103. A detailed list of all the components is available at: www.JM.com.



For additional information:



www.JM.com



800.654.3103



Ask The Building Science Experts

“Architects and engineers are challenged to find cost-effective high performing exterior wall assemblies that have substantiated design properties, backed up by product warranties, that meet code compliance and customer requirements. Providing a broad offering of qualified assemblies fosters building design, engineering and installation flexibility which then allow optimization of design according to owner priorities.”

Kirk Grundahl, P.E.

President, Qualtim

“It is hard to beat the performance of a stud wall assembly that includes rigid insulation on the exterior and insulation in the stud cavity. A system that utilizes foam sheathing with high thermal performance, good air sealing, and low permeability is an ideal solution for controlling condensation in framed walls.”

Joseph Lstiburek, Ph.D, P.E., ASHRAE Fellow

Building Science Corporation

“Air barrier and moisture management are the two most critical functions to address in a building assembly. By addressing the functions of a building assembly on a system basis, the building will perform as intended and be resilient. Professionals that select ABAA evaluated assemblies can be confident that the assemblies meet ABAA’s industry-leading performance criteria.”

Laverne Dagleish

Executive Director of the Air Barrier Association of America

“Building professionals require assurance that they are using code compliant systems. ICC-ES is the industry leader in performing technical evaluations for code compliance, providing regulators and construction professionals with clear evidence that products comply with codes and standards. Specifying assemblies that are listed in an ICC-ES Evaluation Report ensures that I-Code requirements are met, providing peace of mind.”

Shahin Moinian, P.E.

ICC-ES President

1 AP Foil-Faced insulation board must be installed in accordance with Johns Manville published installation instructions, local code, and ICC-ES ESR 3398.

2 Required when AP Foil-Faced is used as an air barrier or water-resistive barrier.

3 Approved for residential buildings; Types I-IV one-story commercial buildings as allowed by code; or Type V commercial buildings.

4 Approved over OSB or plywood. Not approved when AP Foil-Faced is used as an air barrier or water-resistive barrier.

5 JM Corbond III® spray polyurethane foam in the cavity has passed NFPA 285 and is included in the Intertek listing assembly, however it is not included in ICC-ES ESR 3398.

6 Not required with concrete or concrete masonry unit structure.

7 Not required when AP Foil-Faced is installed as an air barrier or water-resistive barrier.