

CITY OF NEW YORK
DEPARTMENT OF BUILDINGS

Pursuant to Administrative Code Section 27-131, the following equipment or material has been found acceptable for use in accordance with the Report of the Materials and Equipment Acceptance (MEA) Division.

Richard C. Visconti, R.A., Acting Commissioner
MEA 10-00-M
Report of Materials and Equipment Acceptance Division

Manufacturer - Omega Products Northeast, Inc., 1117 Douglas Avenue, North Providence, Rhode Island 02904.

Trade Name - Omega Akroflex.

Product - Exterior, wall finish system with thermal insulation.

Pertinent Code Sections - 27-232 and 27-335.1.

Prescribed Tests - RS 5-12 (UBC Standard 17-6); RS 5-5 (ASTM E84); NFPA 259 and Toxicity.

Laboratories - Southwest Research Institute, U.S. Testing; TCI Testing and Consultant Inc.

Test Report - U.S. Testing Report No. 185677 dated September 6, 1991 and letter from George Berger, P.E., New York State P.E. License No. 42038, dated June 22, 2000 and TCI Project No. 30412 dated April 30, 1993, Project Number 107067 dated August 22, 1991 and letter from Southwest Research Institute dated June 15, 2000 and report #SwRI project No. 01.03051.01.047 dated April 21, 2000.

Description - The exterior wall insulation and finish system is a four component system that may be applied to exterior noncombustible substrates including concrete, unit masonry and exterior grade gypsum sheathing for use in noncombustible construction group I buildings. The system may also be applied to combustible substrates including sound unpainted stucco, cement bonded fiber boards and plywood when used in combustible construction group II buildings. The four components consist of maximum four inch thickness expanded polystyrene insulation board, a woven glass fiber reinforcing fabric, an adhesive and a synthetic stucco finish. Portland cement is mixed with Styroglue/Adhesive or Drybond/Adhesive in a ratio of one to one by weight and is applied to 2 foot by 4 foot sections of the Akroflex Insulation Board. A ribbon of the Styroglue/Adhesive or Drybond/Adhesive Mixture 2 inches wide and 3/8 inch thick is applied around the perimeter of each board and dabs of the same thickness are applied at 8 inches on center within the perimeter. The board is then applied to the substrate with an even pressure over the entire surface. All joints are tightly butted together. Using a stainless steel trowel or spray equipment, the mixed Styroglue/Adhesive or Drybond/Adhesive mixture is applied to the entire outer surface of the insulation board to provide a base coat of approximately 1/16 inch thickness.

As much as one cup of water to five gallons of adhesive may be added to enhance the workability of the mixture. The Akorflex Reinforcing Fabric is placed against the wet base coat and, by troweling from the center to the edges, the fabric is completely embedded into the base coat. The reinforcing fabric is lapped not less than 2 1/2 inches at the fabric edges and continues around the insulation board edges at system termination points to completely encapsulate the board. After the base coat has dried for 24 hours, the Akorflex Finish material is applied. The material is mixed with a high speed mixer until a uniform workable consistency is attained. Clean water may be added to adjust workability in accordance with manufacturer's instructions. The finish coating is applied with a trowel or with spray equipment directly to the reinforced Styroglue/Adhesive or Drybond/Adhesive based coat. It is applied and leveled in the same operation. The desired texture is achieved by using a variety of motions with trowels or floats. The final nominal thickness of the finish coating is approximately 1/16 inch to 1/4 inch.

Recommendation - That the above described exterior wall insulation and finish system, comprising a thermal insulation which is not noncombustible and does not meet the requirements of Code Section 27-335.1(a) for use where noncombustible construction is required, be accepted for use in either new or existing noncombustible construction group I buildings as follows:

1. Such insulation shall be of thickness not greater than four inches, exclusive of additional thickness for decorative or leveling purposes as permitted by the Code.
2. Such insulation, which is installed in a composite method of construction, be separated from interior spaces by a thermal barrier having at least a one-hour fire resistance rating.
3. Such insulation is installed in a manner which meets the requirements for firestopping set forth in Section 27-345.
4. The use of such insulation on soffits or other horizontal areas shall not extend more than three feet beyond the outside face of the building enclosure.
5. The use of such insulation on buildings having party walls meet the requirements of Section 27-332.
6. The exterior wall insulation and finish system may be installed at the project site over approved substrate materials or may be applied to approved substrates as part of prefabricated panels which are delivered to the project site.

7. The Outsulation System shall be applied only by licensed applicators who are certified and listed by Omega Products International, Inc.
8. The installation of the exterior wall insulation and finish system shall be subject to the controlled inspection provisions of the Code.
9. Material containers shall be identified by the manufacturer's name, and product name.
10. Insulation boards delivered to the job site shall be delivered in sealed polyethylene bags bearing the words "Akorflex Insulation Board".
11. All shipments and deliveries of such materials shall be provided with a label or tag certifying that the materials shipped or delivered are equivalent to those tested and acceptable for use, as provided for in sub-article 27-131 of the Building Code.

Final Acceptance JUN 28 2003

Examined by S Derkshdam