

MEA 5-82-M

REPORT OF MATERIAL AND EQUIPMENT ACCEPTANCE DIVISION

Manufacturer - Korfil Incorporated, Freighthouse Road,
West Brookfield, Massachusetts 01585

Trade Name - Korfil Block Insulation

Product - Expanded polystyrene inserts for use in 2 hour
load bearing masonry block wall assembly.

Pertinent Code Sections - C26-502.1, Reference Standard RS 10.1

Prescribed Test - RS 5-2 (ASTM E119-61)

Laboratory - Underwriters Laboratories, Inc.

Test Report - File R10326-1, Dated February 28, 1983

Description - Eight inch nominal thickness load bearing wall comprising 8 inch x 8 inch x 16 inch depth, 2 core concrete masonry units produced in accordance with the requirements of UL Standard 618, Class D-2 (intended for use in fire resistance walls having a rating of 2 hours or less) with 1 1/8 inch minimal face shell thickness and 1 inch minimal web thickness and with nominal density of 100 (plus or minus 5) pounds per cubic foot. Nominal 1 inch thickness molded polystyrene insulation material with an average density of 1.3 pounds per cubic foot, manufactured and supplied by Korfil, Inc., was pre-cut to fit within the void areas of the concrete masonry units. Mortar for making up the block wall assembly was composed of three parts of sand to one part of Portland cement (by volume) and to 15 percent (by volume) of hydrated lime. Prior to fire exposure, the wall was loaded to 85 psi based on gross wall cross-sectional area.

Recommendation - That the above described load bearing wall assembly, utilizing hollow core concrete block masonry units with molded polystyrene insulation material

inserts, be accepted as having a 2 hour fire resistance classification, under the following conditions only:

1. Assembly may be utilized in construction group II, combustible buildings or spaces only, in the following occupancy groups only, and only where smoke restrictions are not present: storage (B-1 & B-2), mercantile (C), industrial (D-1 & D-2), business (E).
2. Assembly shall not be used in any assembly, education, institution or residential occupancy group classification.
3. Inserts shall be installed in the cores of blocks at the block producer's plant, in accordance with manufacturer's procedures and recommendations only, so that only blocks with inserts already installed are delivered to the job site.
4. Inserts shall be installed in accordance with manufacturer's specifications to allow blocks to be handled or saw cut without danger of dislodgement.
5. This acceptance does not include structural adequacy of wall design which must be checked for particular structures for compliance with article 10 and reference standard RS-10-1 masonry, at time of plan examination by department engineers.
6. All shipments and deliveries of such materials shall be accompanied by a certificate of label certifying that the materials shipped or delivered are equivalent to those tested and acceptable for use as provided for in sub-article 106.0 of the Building Code.