CITY OF NEW YORK
DEPARTMENT OF BUILDINGS

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

Patricia J. Lancaster, A.I.A., Commissioner
MEA 71-05-M
Report of Materials and Equipment Acceptance Division

Manufacturer – Quad-Lock Building Systems Ltd. Surrey, BC Canada V3W 4M7

Trade Name(s) – Quad-Lock

Product – Fire rated exterior and interior insulated concrete forms wall assembly for combustible construction.

Pertinent Code Section(s) – 27297, 27-107, 27-133.

Prescribed Test(s) – RS 5-5 (ASTM E-84), Toxicity, RS 5-2 (ASTM 119)

Laboratory – Intertek Testing Services, and National Evaluation Service, Inc.

Test Report(s) –

Intertek Test No. 6802 “Standard Fire Endurance Test Program conducted on an Expanded Polystyrene Foam Concrete form Wall System” (ASTM 119)
National Evaluation Service, Inc. Report No. NER-479 (for BASF Corp.) (ASTM E-84)
ICBO Evaluation Services Report No. ER-5364 (for Cheil Industries) (ASTM E-84)
Southwest Research Institute Report #01.10935.02.046a (UPITT Toxicity)

Description – The Quad-Lock Insulated Concrete Forms are a stay-in-place form for a reinforced concrete designed to form either bearing or non bearing wall. The molded expanded polystyrene product consists of modified EPS molded to a specified shape. Regular Panels, Plus Panels and Plastic Ties are approved components. The panels are both 4 feet long by one foot high; the regular panel is 2.25” thick where the Plus is 4.25 thick. Combined with ties the panels can form concrete cavities ranging from 4” to 12” nominal size. The Expanded polystyrene sections form the outside surfaces of the finished wall and are held together by Plastic Ties, which pass through concrete. The wall system shall be constructed using a minimum ½” thick gypsum drywall to achieve the required fire resistance rating, and installed as in fig. 1.

Foam Density – 1.9pcf for Regular Panels and 1.5pcf for Plus Panels
Tests – ASTM E84/UL 723 Ceiling
Flame Spread Index – 25 or less
Smoke Developed Index – 450 or less

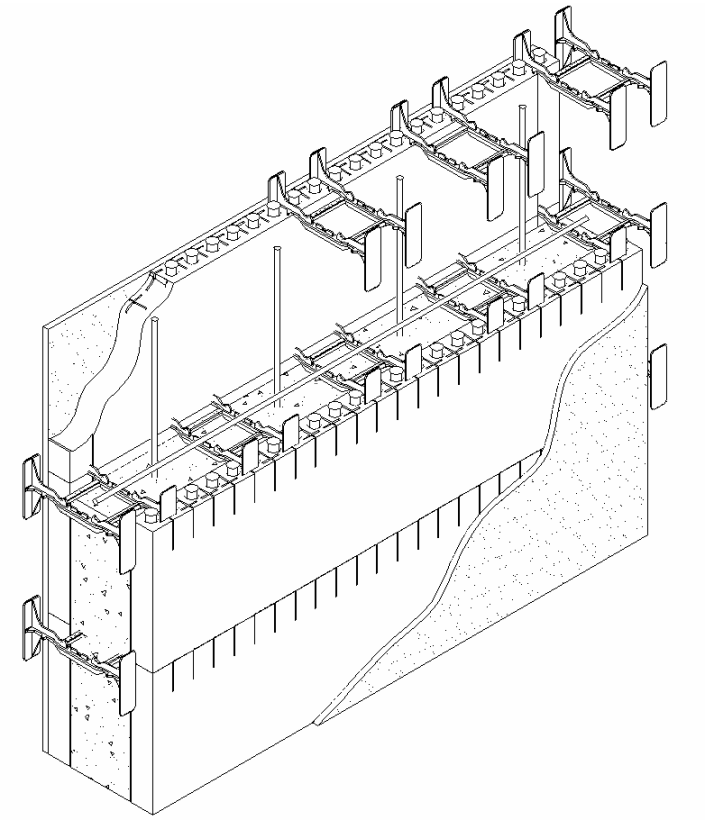

Figure 1. Quad-Lock Insulated Concrete Form wall system

ASTM E 119/ANSI/UL 263/NFPA 251/CAN-ULC-S101-M89
Reference Listed Design Section

Hr. Rating	Quad-Lock Wall Sizes	Bearing / Non-Bearing	Concrete	Reinforcement	Testing Standard	Testing Agency
4	6" Cavity	Non-Bearing	Normal Weight	None	ASTM E-119	Intertek

Recommendation – That the above described wall assembly consisting of the insulated concrete form and other components be accepted as having fire resistance classification listed above for combustible construction only, when installation complies with the applicable New York City Codes, Rules and Regulations and in

particular with Section 27-297A, Tables 3-4, and 4-2 of the Building Code, for 1, 2, or 3 family, when interior and exterior of the insulated concrete form is covered with accepted one hour fire rated material.

This acceptance does not include structural adequacy of wall design, which must be certified by a P.E. or R.A. for particular structures for compliance with the Building Code prior to plan examination by department engineers.

All shipments and deliveries of materials shall be accompanied by a certificate or label certifying that the materials shipped or delivered are equivalent to those tested and acceptable for use, as provide for in Section 27-131 of the Building Code.

Final Acceptance June 29, 2006

Examined By Sjun DerPhodan