1-HR WALL @ STUCCO

ICBO Evaluation Service, Inc.
5360 WORKMAN MILL ROAD • WHITTIER, CALIFORNIA 90601-2299
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EVALUATION REPORT

ER-4776
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Filing Category: EXTERIOR COATINGS (060)

MAGNA WALL FIBER-REINFORCED STUCCO PRODUCTS

MAGNA WALL, INC.
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SENERGY, INC.
3160 ST. JOHNS BLUFF ROAD SOUTH
JACKSONVILLE, FLORIDA 32224

1.0 SUBJECT

Magna Wall Fiber-reinforced Stucco Products.

2.0 DESCRIPTION

2.1 General:

Magna Wall Fiber-reinforced Stucco Products are exterior cementitious wall coatings consisting of proprietary mixtures of portland cement, water, sand, fibers and proprietary admixtures. The products are applied onto wire fabric or metal lath, which is mechanically fastened to the framing members. Approved substrates are foam plastic insulation board, Fome-Cor Board Lathing Material, exterior gypsum sheathing, Dens Glass Gold Gypsum Board, exterior plywood, oriented strand board (OSB), fiberboard, and ThermoPly exterior sheathing attached to wood or steel construction. Products may also be applied over concrete or concrete masonry units with or without metal reinforcement. When applied directly without metal reinforcement, the minimum thickness of the stucco is 7/8 inch (6.4 mm). Product may be installed over insulated concrete form (ICF) systems, provided the ICF system is designed to allow mechanical attachment of wood wire or expanded metal lath. Coating applied to ICF systems with lath shall be a minimum of 3/8 inch (9.5 mm) thick.

TABLE 1—SAND GRADATION (DRAWN FROM ASTM C 144-97)

SIEVE SIZE	PERCENT PASSING, AS PERCENT	
	Natural Sand	Manufactured Sand
4.75 mm (No. 4)	100	100
2.36 mm (No. 8)	95 to 100	95 to 100
1.18 mm (No. 16)	70 to 100	70 to 100
600 µm (No. 30)	40 to 75	40 to 75
300 µm (No. 50)	10 to 35	20 to 40
150 µm (No. 100)	2 to 15	10 to 25
75 µm (No. 200)	0 to 5	0 to 10

TABLE 2—SAND GRADATION (DRAWN FROM ASTM C 897-96)

U.S. STANDARD SIEVE	PERCENT RETAINED BY WEIGHT, ± 2 PERCENT			
	Natural Sand		Manufactured Sand	
	Maximum	Minimum	Maximum	Minimum
No. 4 (4.75 mm)	0	0	0	0
No. 8 (2.36 mm)	10	0	10	0
No. 16 (1.18 mm)	40	10	40	10
No. 30 (600 µm)	65	30	65	30
No. 50 (300 µm)	90	70	80	60
No. 100 (150 µm)	100	95	90	75
No. 200 (75 µm)	100	97	100	90

2.2.3 Insulation Board:

2.2.3.1 Expanded Polystyrene Insulation Board: The expanded polystyrene (EPS) foam plastic insulation board shall have a nominal density of 1.5 pounds per cubic foot (24 kg/m³), with a maximum flame-spread rating of 25 and a smoke-developed rating not exceeding 450 when tested in accordance with UBC Standard 8-1 or ASTM E 84-9861, in the thickness intended for use. Unbacked boards shall have a minimum nominal thickness of 1 inch (25 mm), with 3/4-inch (9.5 mm) projecting tongues and with compatible grooves for horizontal joints. See Figure 1 for joint detail. When foam plastic insulation boards are installed over solid substrates, a lesser thickness, non-tongue-and-groove board is permitted.

All boards must be recognized in a current ICBO ES evaluation report. See Section 2.3 for board identification.

2.2.3.2 R-Guard One Coat Stucco Board: The board is described in ICBO ES evaluation report ER-3414.

2.2.3.3 Extruded Polystyrene (XEPS) Insulation Board: The board has a nominal density of 1.5 pounds per square foot (24 kg/m²). See Section 2.2.3.1 for other details and requirements.

2.2.3.4 Fome-Cor Board Lathing Material: The board consists of a nominal 1/4-inch-thick (6.4 mm) extruded polystyrene (XEPS) foam plastic board and two layers of heavy-duty kraft paper liner board, and is described in ICBO ES evaluation report ER-3335.

2.2.4 Lath:

2.2.4.1 Wire Fabric Lath: Minimum No. 20 gage, 1-inch (25 mm) galvanized steel woven wire fabric. Wire fabric lath shall be self-furred when applied over solid substrates. When applied over open framing with unbacked foam plastic insulation board, the lath is not required to be furred. Self-furring wire fabric lath shall be installed with the long dimension perpendicular to supports, with the sheets lapped one full mesh and tied at 6 inches (152 mm) on center. Wire fabric lath shall be attached to framing members through the foam plastic insulation board with 1-inch-long (25 mm) by No. 11 gage galvanized roofing nails, spaced 6 inches (152 mm) on center. Nails shall be driven flush with the surface of the lath, but not to the extent that the lath is dimpled.

2.2.4.2 Expanded Metal Lath: Lath shall comply with ASTM C 847-95a. Expanded metal lath shall be self-furring and have a minimum rib depth of 3/8 inch (9.5 mm). Lath shall be attached to framing members through the foam plastic insulation board with 1-inch-long (25 mm) by No. 11 gage galvanized roofing nails, spaced 6 inches (152 mm) on center.

2.2.4.3 Welded Wire Lath: Welded wire lath shall be 1-inch (25 mm) galvanized steel welded wire fabric. Welded wire lath shall be self-furred when applied over solid substrates. When applied over open framing with unbacked foam plastic insulation board, the lath is not required to be furred. Self-furring welded wire fabric lath shall be installed with the long dimension perpendicular to supports, with the sheets lapped one full mesh and tied at 6 inches (152 mm) on center. Welded wire lath shall be attached to framing members through the foam plastic insulation board with 1-inch-long (25 mm) by No. 11 gage galvanized roofing nails, spaced 6 inches (152 mm) on center. Nails shall be driven flush with the surface of the lath, but not to the extent that the lath is dimpled.

2.2.4.4 Paper-backed Welded Wire Lath: Paper-backed welded wire lath shall be 1-inch (25 mm) galvanized steel welded wire fabric with integral water-resistive paper backing. Paper-backed welded wire lath shall be self-furred when applied over solid substrates. When applied over open framing with unbacked foam plastic insulation board, the lath is not required to be furred. Self-furring paper-backed welded wire fabric lath shall be installed with the long dimension perpendicular to supports, with the sheets lapped one full mesh and tied at 6 inches (152 mm) on center. Paper-backed welded wire lath shall be attached to framing members through the foam plastic insulation board with 1-inch-long (25 mm) by No. 11 gage galvanized roofing nails, spaced 6 inches (152 mm) on center. Nails shall be driven flush with the surface of the lath, but not to the extent that the lath is dimpled.

2.2.4.5 Paper-backed Self-furring Welded Wire Lath: Paper-backed self-furring welded wire lath shall be 1-inch (25 mm) galvanized steel welded wire fabric with integral water-resistive paper backing. Paper-backed self-furring welded wire fabric lath shall be installed with the long dimension perpendicular to supports, with the sheets lapped one full mesh and tied at 6 inches (152 mm) on center. Paper-backed self-furring welded wire lath shall be attached to framing members through the foam plastic insulation board with 1-inch-long (25 mm) by No. 11 gage galvanized roofing nails, spaced 6 inches (152 mm) on center. Nails shall be driven flush with the surface of the lath, but not to the extent that the lath is dimpled.

2.2.4.6 Paper-backed Welded Wire Lath with Rib Stiffeners: Paper-backed welded wire lath with rib stiffeners shall be 1-inch (25 mm) galvanized steel welded wire fabric with integral water-resistive paper backing and 3/8-inch (9.5 mm) deep rib stiffeners. Paper-backed welded wire lath with rib stiffeners shall be installed with the long dimension perpendicular to supports, with the sheets lapped one full mesh and tied at 6 inches (152 mm) on center. Paper-backed welded wire lath with rib stiffeners shall be attached to framing members through the foam plastic insulation board with 1-inch-long (25 mm) by No. 11 gage galvanized roofing nails, spaced 6 inches (152 mm) on center. Nails shall be driven flush with the surface of the lath, but not to the extent that the lath is dimpled.

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2.2.4.10 Paper-backed Welded Wire Lath with Ribs: Paper-backed welded wire lath with ribs shall be 1-inch (25 mm) galvanized steel welded wire fabric with integral water-resistive paper backing and 3/8-inch (9.5 mm) deep ribs. Paper-backed welded wire lath with ribs shall be installed with the long dimension perpendicular to supports, with the sheets lapped one full mesh and tied at 6 inches (152 mm) on center. Paper-backed welded wire lath with ribs shall be attached to framing members through the foam plastic insulation board with 1-inch-long (25 mm) by No. 11 gage galvanized roofing nails, spaced 6 inches (152 mm) on center. Nails shall be driven flush with the surface of the lath, but not to the extent that the lath is dimpled.

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2.2.4.31 Paper-backed Self-furring Welded Wire Lath with Ribs and Dimples: Paper-backed self-furring welded wire lath with ribs and dimples shall be 1-inch (25 mm) galvanized steel welded wire fabric with integral water-resistive paper backing and 3/8-inch (9.5 mm) deep ribs and dimples. Paper-backed self-furring welded wire lath with ribs and dimples shall be installed with the long dimension perpendicular to supports, with the sheets lapped one full mesh and tied at 6 inches (152 mm) on center. Paper-backed self-furring welded wire lath with ribs and dimples shall be attached to framing members through the foam plastic insulation board with 1-inch-long (25 mm) by No. 11 gage galvanized roofing nails, spaced 6 inches (152 mm) on center. Nails shall be driven flush with the surface of the lath, but not to the extent that the lath is dimpled.

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