CITY OF SACRAMENTO

1231 I Street, Sacramento, CA 95814

Permit No: 0602998
Insp Area: 4
Thos Bros: 277F6

PAID
CITY OF SACRAMENTO
JUN 27 2006
NEIGHBORHOODS PLANNING AND DEVELOPMENT SER.

Site Address: 2621 MYSIN WY SAC
Parcel No: 262-0251-030 LOT 8

Sub-Type: NSFR
Housing (Y/N): N

CONTRACTOR
MYSIN CUSTOM HOMES INC
733 WATER STREET
WEST SACRAMENTO CA 95605

OWNER
MYSIN VLADIMIR
8117 ELLA CT
CITRUS HEIGHTS, CA 95610

ARCHITECT

Nature of Work: NEW 1,742 SF SFR W/413 SF GARAGE AND 63 SF PORCH

CONSTRUCTION LENDING AGENCY : I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C).

Lender's Name_____ Lender'sAddress_____

LICENSED CONTRACTORS DECLARATION: I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code and my license is in full force and effect.

X License Class_____ License Number 831009 Date_____ Contractor Signature_____

OWNER-BUILDER DECLARATION: I hereby affirm under penalty of perjury that I am exempt from the contractors License Law for the following reason (Sec. 7031.5, Business and Professions Code; any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 8 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500.00);

____ I, as a owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business and Professional Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his/her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he/she did not build or improve for the purpose of sale.)

X JM I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law).

____ I am exempt under Sec._____ B & PC for this reason:_____

Date 6/27/06 Owner Signature Nina Mysin (Vladimir Mysin)

IN ISSUING THIS BUILDING PERMIT, the applicant represents, and the city relies on the representation of the applicant, that the applicant verified all measurements and locations shown on the application or accompanying drawings and that the improvement to be constructed does not violate any law or private agreement relating to permissible or prohibited locations for such improvements. This building permit does not authorize any illegal location of any improvement or the violation of any private agreement relating to location of improvements.

I certify that I have read this application and state that all information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction and herby authorize representative(s) of this city to enter upon the abovementioned property for inspection purposes.

X Date 6/27/06 Applicant/Agent Signature Nina Mysin (Vladimir Mysin)

WORKER'S COMPENSATION DECLARATION: I hereby affirm under penalty of perjury one of the following declarations:
____ I have and will maintain a certificate of consent to self-insure for workers' compensation as provided for by Section 3700 of the Labor Code, for the performance of work for which the permit is issued.

_____ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier EXEMPT Policy Number Exp Date

X JM (This section need not be completed if the permit is for $100 or less) I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

X Date 6/27/06 Applicant Signature Nina Mysin (Vladimir Mysin)

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST AND ATTORNEY'S FEE.

~~**THIS PERMIT SHALL EXPIRE BY LIMITATION IF WORK IS NOT COMMENCED WITHIN 180 DAYS.**~~

#0602998 RGL Lot 5

This form is to be filled out completely & signed by applicant/owner/contractor responsible for Title 24 Energy Compliance & returned to the field inspector at final.

INSTALLATION CERTIFICATE

(Page 1 of 13) **CF-6R**

2621 Mysia Way — 0603000

Site Address — **Permit Number**

An installation certificate is required to be posted at the building site or made available for all appropriate inspections. (The information provided on this form is required; however, use of this form to provide the information is optional.) After completion of final inspection, a copy must be provided to the building department (upon request) and the building owner at occupancy, per Section 10-103(b).

HVAC SYSTEMS:

Heating Equipment

Equip. Type (pkg. heat pump)	CEC Certified Mfr Name and Model Number	# of Identical Systems	Efficiency (AFUE, etc.)[1] [≥CF-1R value]	Duct Location (attic, etc.)	Duct or Piping R-value	Heating Load (Btu/hr)	Heating Capacity (Btu/hr)
Split	Bryant 126RGA042000	1	80	Attic	R-6	28072	88000 BTU/Hr

Cooling Equipment

Equip. Type (pkg. heat pump)	CEC Certified Compressor Unit Mfr Name and Model Number	# of Identical Systems	Efficiency (SEER, etc.)[1] [≥CF-1R value]	Duct Location (attic, etc.)	Duct R-value	Cooling Load (Btu/hr)	Cooling Capacity (Btu/hr)
Split	Amana RSC422ED	1	13	ATTIC	R-6	16502	42000 BTU/Hr.
			(MV)				

1. ≥ reads *greater than or equal to.*

I, the undersigned, verify that equipment listed above is: 1) is the actual equipment installed, 2) equivalent to or more efficient than that specified in the certificate of compliance (Form CF-1R) submitted for compliance with the *Energy Efficiency Standards* for residential buildings, and 3) equipment that meets or exceeds the appropriate requirements for manufactured devices (from the *Appliance Efficiency Regulations* or Part 6), where applicable:

Signature, Date

DMI Mechanical

Installing Subcontractor (Co. Name)
OR General Contractor (Co. Name) OR Owner

WATER HEATING SYSTEMS:

Heater Type	CEC Certified Mfr Name & Model Number	Distribution Type (Std, Point-of-Use)	If Recirculation, Control Type	# of Identical Systems	Rated[3] Input (kW or Btu/hr)	Tank Volume (gallons)	Efficiency[2] (EF, RE)	Standby[2] Loss (%)	External Insulation R-value[3]

2 For small gas storage (rated input of less than or equal to 75,000 Btu/hr), electric resistance and heat pump water heaters, list Energy Factor.
For large gas storage water heaters (rated input of greater than 75,000 Btu/hr), list Recovery Efficiency, Standby Loss and Rated Input.
For instantaneous gas water heaters, list Recovery Efficiency and Rated Input.

3. R-12 external insulation is mandatory for storage water heaters with an energy factor of less than 0.58.

Faucets & Shower Heads:
All faucets and showerheads installed are certified to the Commission, pursuant to Title 24, Part 6, Section 111.

I, the undersigned, verify that equipment listed above my signature is: 1) the actual equipment installed; 2) equivalent to or more efficient than that specified in the certificate of compliance (Form CF-1R) submitted for compliance with the *Energy Efficiency Standards* for residential buildings; and 3) equipment that meets or exceeds the appropriate requirements for manufactured devices (from the *Appliance Efficiency Regulations* or Part 6), where applicable.

Signature, Date

Installing Subcontractor (Co. Name) OR
General Contractor (Co. Name) OR Owner

COPY TO: Building Department
HERS Provider (if applicable)
Building Owner at Occupancy

INSTALLATION CERTIFICATE

CF-6R

2621 Mysia Way
Site Address

Permit Number

FENESTRATION/GLAZING:

Manufacturer/Brand Name (GROUP LIKE PRODUCTS)	Product U-Factor[1] (≤ CF-1R value)[2]	Product SHGC[1] (≤ CF-1R value)[2]	# of Panes	Total Quantity of Like Product (Optional)	Square Feet	Exterior Shading Device or Overhang	Comments/Location/ Special Features
1. Cascade	0.35	0.33	2	2	15	overhang	Office/bedroom
2. Cascade	0.35	0.33	2	2	15	overhang	Dining
3. Cascade	0.35	0.33	1	1	15	overhang	Kitchen
4. Cascade	0.31	0.31	2	2	10	overhang	Kitchen
5. Cascade	0.32	0.34	2	1	4	overhang	M. Bath
6. Cascade	0.35	0.30	2	1	42	overhang	M. Bath
7. Cascade	0.35	0.30	2	1	20	overhang	Bedroom
8. Cascade	0.35	0.30	2	1	20	overhang	Bedroom
9. Cascade	0.35	0.33	2	1	25	overhang	Family Room
10. Cascade	0.35	0.30	1	2	16	Overhang	Entry
11.							
12.							
13.							
14.							
15.							

[1] Manufactured fenestration products use the values from the product label. Field fabricated fenestration products use the default values from Section 116 of the Energy Efficiency Standards.

[2] Installed U-Factor must be less than or equal to values from CF-1R. Installed SHGC must be less than or equal to values from CF-1R, or a shading device (exterior or overhang) is installed as specified on the CF-1R. Alternatively, installed weighted average U-Factors for the total fenestration area are less than or equal to values from CF-1R.

I, the undersigned, verify that the fenestration/glazing listed above my signature: 1) is the actual fenestration product installed; 2) is equivalent to or has a lower U-Factor and lower SHGC than that specified in the certificate of compliance (Form CF-1R) submitted for compliance with the *Energy Efficiency Standards* for residential buildings; and 3) the product meets or exceeds the appropriate requirements for manufactured devices (from Part 6), where applicable.

Item #s (if applicable)

Signature, Date 02/12/07

Installing Subcontractor (Co. Name) OR General Contractor (Co. Name) OR Owner OR Window Distributor

Item #s (if applicable)

Signature, Date

Installing Subcontractor (Co. Name) OR General Contractor (Co. Name) OR Owner OR Window Distributor

Item #s (if applicable)

Signature, Date

Installing Subcontractor (Co. Name) OR General Contractor (Co. Name) OR Owner OR Window Distributor

COPY TO: Building Department
HERS Provider (if applicable)
Building Owner at Occupancy

ES REPORT™

ER-3899

Reissued September 1, 2002

ICBO Evaluation Service, Inc. • 5360 Workman Mill Road, Whittier, California 90601 • www.icboes.org

Filing Category: EXTERIOR COATINGS

WESTERN 1-KOTE EXTERIOR STUCCO SYSTEM, MASTER WALL ONE COAT STUCCO SYSTEM, DRYVIT STUCCO PLUS SYSTEMS AND STO POWERWALL® STUCCO SYSTEM, AND EXTERIOR CEMENT PLASTER

WESTERN STUCCO PRODUCTS CO., INC.
6101 NORTH 53RD DRIVE
POST OFFICE BOX 968
GLENDALE, ARIZONA 85311

DRYVIT SYSTEMS, INC.
ONE ENERGY WAY
WEST WARWICK, RHODE ISLAND 02893

STO CORP.
6175 RIVERSIDE DRIVE
ATLANTA, GEORGIA 30331

1.0 SUBJECT

Western 1-Kote Exterior Stucco System, Master Wall One Coat Stucco System, Dryvit Stucco Plus System and Sto Powerwall Stucco System, and Exterior Cement Plaster.

2.0 DESCRIPTION

2.1 One-coat Stucco Systems:

2.1.1 General: The Western 1-Kote Exterior Stucco System, Master Wall Powerwall Stucco System, Dryvit Stucco Plus System and Sto One-coat Stucco System are exterior cementitious one-coat stucco wall-coating systems. See Table 1 for the company names, system names and product names. The systems consist of a proprietary stucco reinforced with wire fabric or metal lath. The systems are applied to substrates of expanded polystyrene (EPS) or extruded polystyrene (XEPS) insulation board, gypsum sheathing board, fiberboard, plywood, or oriented strand board (OSB). The systems are installed on exterior walls of wood- or steel-stud construction.

2.1.2 Materials:

2.1.2.1 Western 1-Kote Stucco, OCS, Stucco Plus Concentrate, and Sto Powerwall Stucco: The materials are factory-prepared mixtures of Type I or II portland cement complying with ASTM C 150-94, lime, chopped fibers, and proprietary additives. The dry cementitious mixture is packaged in 80-pound (36 kg) bags. Four and one half to six gallons (17 to 23 L) of water and 180 to 200 pounds (82 to 91 kg) of sand are added to each bag, in the field, and the components are mixed in accordance with the manufacturer's recommendations. Alternatively, the stucco product is premixed with sand and is packaged in 90-pound (40.8 kg) bags. The premixed stucco product is field-mixed with 3 gallons (11.5 L) of water per bag of stucco product.

Approved color pigments may be added to the stucco mix in accordance with the manufacturer's instructions.

2.1.2.2 Sand: Sand must be clean and free from deleterious amounts of loam, clay, silt, soluble salts and organic matter. Sampling and testing must comply with ASTM C 144. Sand must be graded within the following limits:

RETAINED ON U.S STANDARD SIEVE	PERCENT RETAINED BY WEIGHT ± 2 PERCENT	
	Minimum	Maximum
No. 4	--	0
No. 8	0	10
No. 16	10	40
No. 30	30	65
No. 50	70	90
No. 100	95	100

2.1.2.3 Insulation Board:

2.1.2.3.1 Expanded Polystyrene Insulation Board: EPS boards must have a nominal density of 1.5 pounds per cubic foot (24 kg/m³), a Class I flame-spread classification and a smoke-developed rating not exceeding 450. Boards installed without sheathing over open framing must be 1 to 1 1/2 inches (25.4 to 38 mm) thick and provided with 3/8-inch-high (9.5 mm) tongues with compatible grooves for horizontal joints. See Figure 1 for joint detail. All boards must be recognized in a current ICBO ES evaluation report. See Section 2.3 for board identification.

2.1.2.3.2 Extruded Polystyrene Insulation Board: XEPS boards must have a minimum density of 1.6 pounds per cubic foot (25.6 kg/m³). See Section 2.1.2.3.1 for other details and requirements.

2.1.2.3.3 Fome-Cor Board Lathing Material: The material is nominal 1/4-inch-thick XEPS foam plastic identified as Fome-Cor Board Lathing Material in ICBO ES evaluation report ER-3335.

2.1.2.4 Lath:

2.1.2.4.1 Wire Fabric Lath: The lath is minimum No. 20 gage, 1-inch (25.4 mm), galvanized steel woven-wire fabric. Lath must be self-furred or furred when applied over all substrates except unbacked polystyrene board. Self-furring lath for coatings must comply with the following requirements:

1. The maximum total coating thickness is 1/2 inch (12.7 mm).
2. Furring crimps must be provided at maximum 6-inch (152 mm) intervals each way. The crimps must fur the body of the lath a minimum of 1/8 inch (3.2 mm) from the substrate after installation.

2.1.2.4.2 Metal Lath: The metal lath complies with Table 25-B of the 1997 *Uniform Building Code*™ (UBC). Furring and self-furring requirements are as set forth for wire fabric lath.

2651

to installation of wire fabric or metal lath, or optional insulation board. The vertical joints of the insulation board must be staggered from adjacent courses a minimum of 3 inches (76 mm). Insulation board must be attached to the framing, but the vertical joints of the insulation board are not required to align with the framing. The wire fabric or metal lath is attached to studs through the weather-resistive barrier and sheathing, with fasteners and spacings as described for insulation boards either in Section 2.1.3.2.1 of this report or in Table 23-II-B-1 of the UBC, whichever is more restrictive. Wood framing must be of a species having a specific gravity of 0.50 or greater, such as Douglas fir-larch. The system may also be applied to minimum No. 20 gage [0.036 inch (0.914 mm) thick] steel studs spaced 24 inches (610 mm) on center. System application is similar to that for wood studs, except No. 8, 0.161-inch-diameter-shank (0.41 mm), 0.420-inch-diameter-head (10.7 mm), minimum $1^{3}/_{4}$-inch-long (44.5 mm) self-tapping screws secure the lath and sheathing. Screw penetration is a minimum of $^{1}/_{4}$ inch (6.4 mm) beyond the steel stud. All walls must be braced in accordance with the UBC. Exposed sheathing edges are protected with screeds. Holes in the substrate surface are caulked and the coating is applied as described in Section 2.1.3.1.

2.1.3.3.2 Gypsum Sheathing: Minimum $^{1}/_{2}$-inch-thick (12.7 mm), water-resistant core gypsum sheathing may be installed directly on wood studs in a manner similar to that for fiberboard. The sheathing may also be installed on No. 20 gage [0.036 inch (0.914 mm) thick] steel studs. Gypsum sheathing is fastened in accordance with Table 25-G of the UBC. A weather-resistive barrier is required over the gypsum sheathing prior to installation of the lath and coating as described in Section 2.1.3.2.

2.1.3.3.3 Wood-based Structural Sheathing: Plywood or OSB must be applied directly to wood studs as set forth in Section 2.1.2.9 of this report and Table 23-IV-D-1 of the UBC. The weather-resistive barrier, optional insulation board, lath and coating are applied as decribed for fiberboard in Section 2.1.3.3.1 of this report.

2.1.4 One-hour Fire-resistive Limited Load-bearing Wall Assemblies:

2.1.4.1 First Assembly:

2.1.4.1.1 Interior Face: One layer of $^{5}/_{8}$-inch-thick (15.9 mm), Type X gypsum wallboard, water-resistant backerboard or veneer base is applied parallel or at right angles to the interior face of 2-by-4 wood studs spaced a maximum of 24 inches (610 mm) on center. The gypsum boards are attached using 6d coated nails, $1^{7}/_{8}$ inches (48 mm) long with a $^{1}/_{4}$-inch-diameter (6.4 mm) head, at 7 inches (178 mm) on center to studs, plates and blocking. All gypsum board joints must be backed with wood framing and must be taped and, along with fastener heads, treated with joint compound.

2.1.4.1.2 Exterior Face: One layer of minimum $^{5}/_{8}$-inch-thick (15.9 mm), 48-inch-wide (1219 mm), Type X, water-resistant core gypsum sheathing is applied parallel to studs using No. 11 gage galvanized roofing nails, $1^{3}/_{4}$ inches (44.5 mm) long with a $^{7}/_{16}$-inch- or $^{1}/_{2}$-inch-diameter (11.1 mm or 12.7 mm) head, at 4 inches (102 mm) on center at board edges and 7 inches (178 mm) on center at intermediate studs. The sheathing is nailed to top and bottom plates at 7 inches (178 mm) on center. A weather-resistive barrier complying with Section 2.1.2.11 of this report is required over the sheathing. The wire fabric lath and wall coating are then applied as described in Section 2.1.3.2.

2.1.4.2 Second Assembly:

2.1.4.2.1 Interior Face: One layer of $^{5}/_{8}$-inch-thick (15.9 mm), Type X gypsum wallboard is applied horizontally to wood studs spaced a maximum of 16 inches (406 mm) on center. The wallboard is attached, using $1^{5}/_{8}$-inch-long (41.3 mm), No. 13 gage, gypsum wallboard nails having a $^{19}/_{64}$-inch-diameter (7.5 mm) head, at 6 inches (152 mm) on center around board edges and to studs and blocking. All wallboard joints must be backed by wood framing and taped and treated with joint compound. Fastener heads must be treated with joint compound.

2.1.4.2.2 Exterior Face: Three-and-five-eighths-inch-thick (92 mm), 15-inch-wide (381 mm), R-13, 1.72 pcf density (27.6 kg/m^3), mineral wool batts, having a vapor barrier on one face, are stapled to one face of the framing members. One layer of $^{1}/_{2}$-inch-thick (12.7 mm), water-resistant core gypsum sheathing is fastened to the studs as described for gypsum wallboard in Section 2.1.4.2.1 of this report. A weather-resistive barrier of kraft waterproof paper complying with UBC Standard 14-1 is applied over the sheathing in accordance with the code. The 1-inch (25.4 mm) by No. 20 gage galvanized wire fabric lath and the wall coating are applied over the sheathing and weather-resistive barrier in accordance with Section 2.1.3.3.2 of this report. No foam plastic insulation is permitted.

2.1.4.3 Third Assembly:

2.1.4.3.1 Interior Face: One layer of $^{5}/_{8}$-inch-thick (15.9 mm), Type X gypsum wallboard is applied to nominal 2-by-4 wood studs spaced a maximum of 24 inches (610 mm) on center, with the gypsum wallboard's long dimension horizontal. Horizontal solid blocking must be installed at the wall midheight. The wallboard is attached with $1^{5}/_{8}$-inch-long (41.3 mm), cupped-head gypsum wallboard nails with a 0.30-inch-diameter (7.62 mm) head and 0.10-inch-diameter (0.254 mm) shank. The fasteners are spaced a maximum of 8 inches (203 mm) on all studs, plates and blocking. Wallboard joints must be covered with paper tape and gypsum joint compound. Fastener head must also be treated with joint compound. Kraft-paper-faced, $3^{1}/_{2}$-inch-thick (89 mm), R-11, fiberglass batt insulation complying with Section 707.3 of the code must be installed in the cavity of the wall.

2.1.4.3.2 Exterior Face: Any of the following substrates may be used:

- One layer of minimum $^{1}/_{2}$-inch-thick (12.7 mm) water-resistant core gypsum sheathing.
- One layer of minimum $^{7}/_{16}$-inch-thick (11.1 mm) oriented strand board (OSB).
- One layer of minimum $^{7}/_{16}$-inch-thick (11.1 mm) plywood.

The substrates must be as described in Section 2.1.2.5 or 2.1.2.9 of this report, and must be installed on the wood framing as described in Section 2.1.3.3.2 or 2.1.3.3.3, as applicable. Horizontal joints in the exterior face sheathing must be offset 24 inches (610 mm) from horizontal joints of the gypsum wallboard on the opposite wall face. A weather-resistive barrier complying with this report must be installed as described in this report. The lath and wall coating must be installed as described in this report.

2.1.5 Noncombustible Construction: When installed in accordance with Sections 2.1.5.1 through 2.1.5.6, the stucco system may be installed on exterior walls required to be of noncombustible construction.

2.1.5.1 Interior Finish: One layer of $^{5}/_{8}$-inch-thick (15.9 mm), Type X gypsum wallboard complying with ASTM C 36 is applied vertically to steel framing with all edges blocked. Fasteners are No. 8 by $1^{1}/_{4}$-inch-long (31.7 mm) buglehead screws fastened to board joints at 8 inches (203 mm) on center and to intermediate locations at 12 inches (305 mm) on center. All joints are taped and treated with joint compound. Intermediate fasteners are treated with compound.

For insulation boards applied to walls required to be of noncombustible construction, as noted in Section 2.1.5, each board must be identified along one edge, and one board from each insulation package must be identified on both faces, with the evaluation report number (ICBO ES ER-3899), the system name as stated in Table 1 of this report, and the ICBO ES evaluation report number for the foam plastic.

3.0 EVIDENCE SUBMITTED

Data in accordance with the ICBO ES Acceptance Criteria for Cementitious Exterior Wall Coatings (AC11), dated January 2001, and reports of tests in accordance with UBC Standards 26-4 and 7-1.

4.0 FINDINGS

That the exterior cementitious stucco wall coating systems and exterior cement plasters described in this report comply with the 1997 *Uniform Building Code*™ (UBC), subject to the following conditions:

4.1 The materials and methods of installation comply with this report and the manufacturer's instructions.

4.2 Installation is by contractors approved by the manufacturer.

4.3 The system is applied to walls required to be of noncombustible construction, in accordance with Section 2.1.5.

4.4 The axial load applied to the fire-resistive wall assemblies described in Sections 2.1.4.2 and 2.1.4.3 does not exceed the least of the following:

4.4.1 1,100 pounds (4895 N) per stud

4.4.2 Design stress, based on 0.78 F'_c, in accordance with Chapter 23, Division III, of the UBC.

4.4.3 Design stress of 0.78 F'_c at a maximum l_e/d ratio of 33.

4.4.4 For the assembly described in Section 2.1.4.2, 54 percent of the load calculated in accordance with Chapter 23, Division III, of the UBC.

4.4.5 For the assembly described in Section 2.1.4.3, 44.7 percent of the load calculated in accordance with Chapter 23, Division III, of the UBC.

4.5 The axial load design stress for the fire-resistive wall assembly described in Section 2.1.4.1 is limited to 0.78 F'_c, and the maximum stress does not exceed 0.78 $F'c$ at a maximum l_e/d ratio of 33.

4.6 The interior of the building is separated from the foam plastic boards by a thermal barrier complying with Section 2602.4 of the code, such as $^1/_2$-inch-thick (12.7 mm) regular gypsum wallboard applied in accordance with Table 25-G of the UBC.

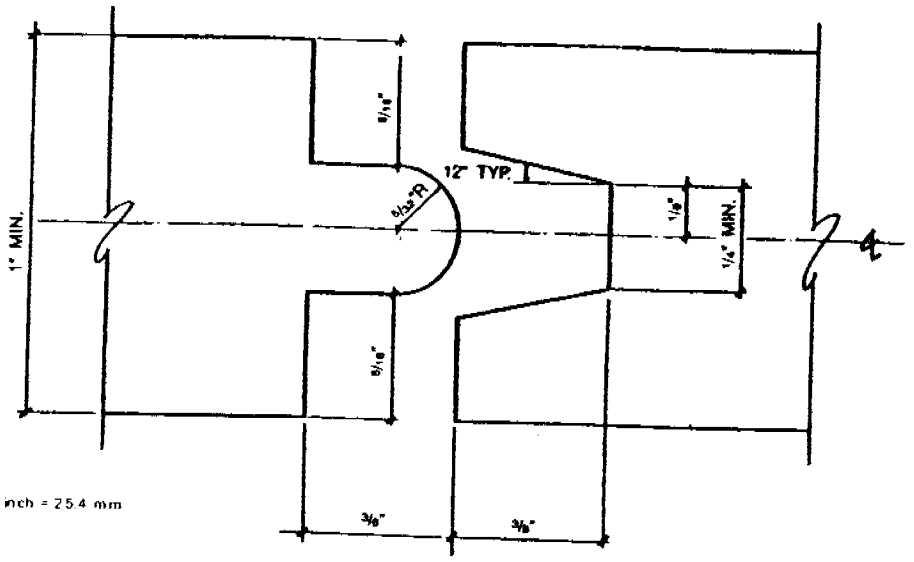
4.7 An installation card, such as shown in Figure 3, is completed and left at the jobsite for the owner, and a copy is filed with the building department.

4.8 The allowable wind load on the cementitious one-coat stucco systems with studs a maximum of 24 inches (610 mm) on center is 35 psf (1.68 kN/m²), except for gypsum sheathing substrates, for which the allowable wind load is 25 psf (1.20 kN/m²). Support framing must be adequate to resist the design load.

This report is subject to re-examination in two years.

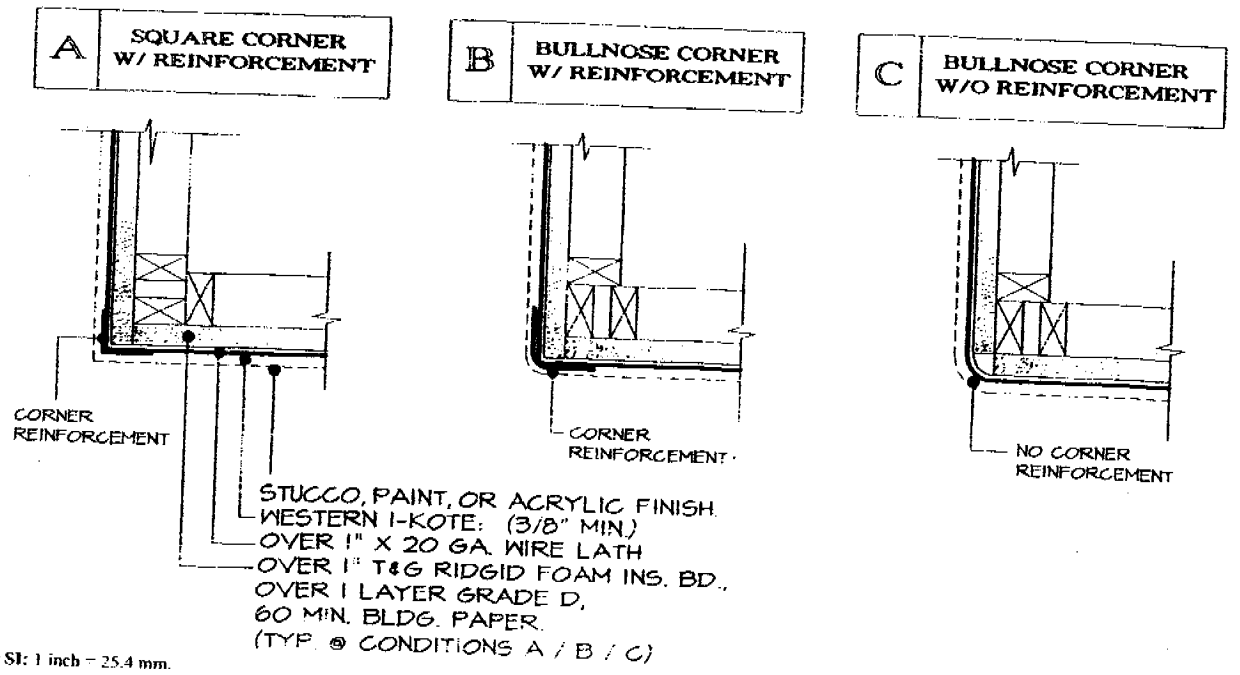
TABLE 1—CROSS REFERENCE INDEX

COMPANY NAME	SYSTEM NAME	PRODUCT NAME
Western Stucco Products, Inc.	Western 1-Kote Exterior Stucco System	Western 1-Kote
Dryvit Systems, Inc.	Dryvit Stucco Plus System	Stucco Plus Concentrate
Sto Corp.	Sto One-coat Stucco System	Sto One-coat Stucco
Mater Wall Inc.	Master Wall One Coat Stucco System	OCS



For SI: 1 inch = 25.4 mm

FIGURE 1—TONGUE AND GROOVE



For SI: 1 inch = 25.4 mm.

FIGURE 2—TYPICAL INSTALLATION DETAILS—(Continued)

INSTALLATION CARD

(Coating system Trade Name)
(Name of coating manufacturer)

Job Address

2651 Marshall
Sacramento CA

ICBO Evaluation Service, Inc.,
Evaluation Report ER-_____

Date of Job Completion 2-2-07

Plastering Contractor

Name: CAMELLIA CITY Lath & Plaster CA Lic. # 844625

Address: 601 Sutter St., West Sacramento, CA 95691

Telephone No.: (916) 502 414 3251110

Approved contractor number as issued by coating manufacturer: # 269 Justin

This is to certify that the exterior coating system on the building exterior at the above address has been installed in accordance with the evaluation report specified above and the manufacturer's instructions.

Signature of authorized representative or plastering contractor

2/6/07
Date

This installation card must be presented to the building inspector after completion of work and before final inspection.

FIGURE 3

INSULATION CERTIFICATE

THIS IS TO CERTIFY THAT INSULATION HAS BEEN INSTALLED IN CONFORMANCE WITH THE CURRENT ENERGY REGULATIONS, CALIFORNIA ADMINISTRATION CODE, TITLE 24, STATE OF CALIFORNIA, IN THE BUILDING LOCATED AT:

SITE ADDRESS LOT 5 MYSIN WAY (NUMBER) SACRAMENTO (CITY) CA (STATE)

CEILINGS:

BLOW:	**MANUFACTURER**	GREENFIBER	**THICKNESS**	10.3"	**R/VALUE**	38
	MANUFACTURER	GREENFIBER	**THICKNESS**		**R/VALUE**	
BATTS:	**MANUFACTURER**	KNAUF	**THICKNESS**	13"		38
		KNAUF				

EXTERIOR WALLS:

	MANUFACTURER	KNAUF	**THICKNESS**	3.5"	**R/VALUE**	13
		KNAUF				

FLOOR INSULATION:

	MANUFACTURER	KNAUF	**THICKNESS**	N/A	**R/VALUE**	N/A
		KNAUF				

AIR INFILTRATION: **(TITLE 24)**

YES XXX **NO**

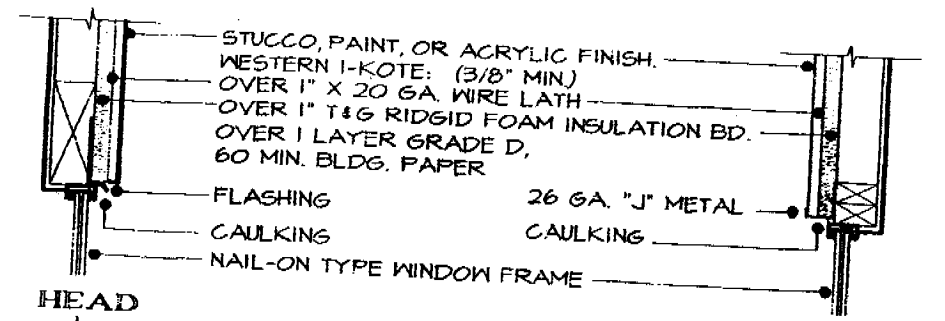
OTHER:

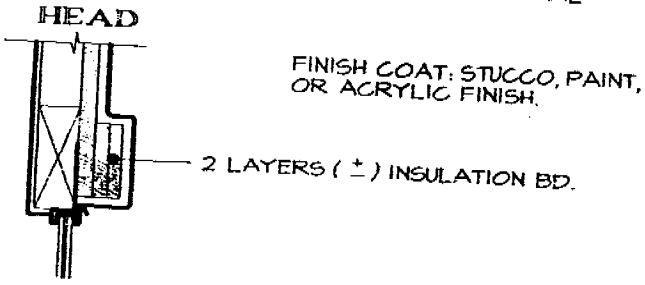
GENERAL CONTRACTOR: MYSIN CONSTRUCTION **LICENSE #**

BY: **TITLE** **DATE**

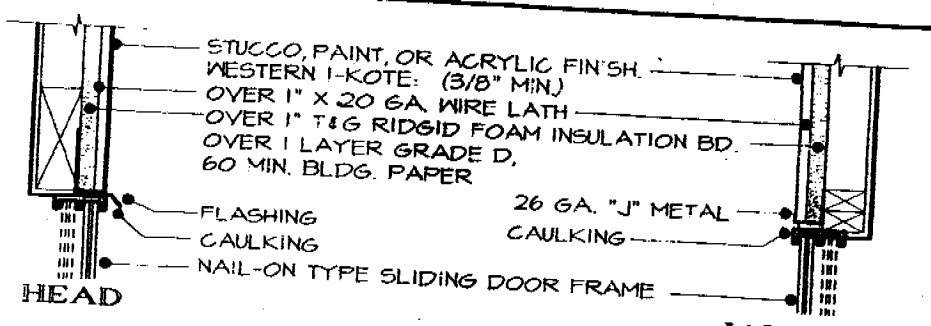
INSULATION CONTRACTOR: WESTERN INSULATION L.P **LICENSE #** 794484

BY: BECKY GUTHERZ **TITLE** AUTH. AGENT **DATE** 2/13/2007

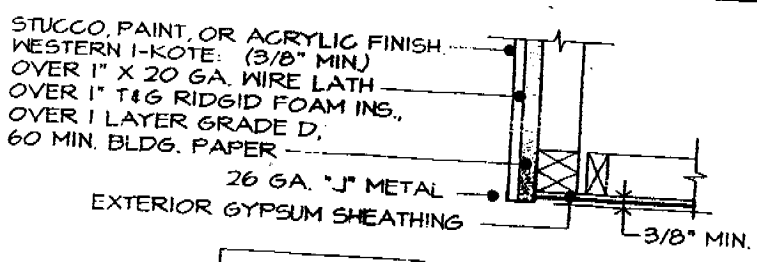




WINDOWS



SLIDING GLASS DOORS



WOOD SOFFIT

For SI: 1 inch = 25.4 mm.

FIGURE 2—TYPICAL INSTALLATION DETAILS

2.1.5.2 Steel Framing: Minimum $3^5/_8$-inch-deep (92 mm), minimum No. 20 gage [0.036 inch (0.914 mm)] steel studs spaced a maximum of 16 inches (406 mm) on center.

2.1.5.3 Openings: Wall openings are framed with minimum 0.125-inch-thick (3.2 mm) tubular aluminum or steel framing.

2.1.5.4 Exterior Finish: One layer of minimum $^1/_2$-inch-thick (12.7 mm) gypsum sheathing complying with ASTM C 79 is applied horizontally to the steel framing using No. 8 by $1^1/_4$-inch-long (31.7 mm) buglehead screws spaced 8 inches (203 mm) on center at all framing locations.

2.1.5.5 Stud Cavity: At floor levels, Thermafiber insulation (ICBO ES ER-2331) is fitted into each stud cavity. The insulation has a minimum nominal density of 4 pounds per cubic foot, is 4 inches (102 mm) thick, and is approximately 6 to 8 inches (152 to 203 mm) wide. To fit within a stud cavity, it must be long enough to achieve a friction fit.

2.1.5.6 Stucco System: The stucco system includes application of one layer of Pyro-Cure 600 vapor retarder, manufactured by Fortifiber. Pyro-Cure vapor retarder has a maximum flame-spread rating of 25 and a maximum smoke-developed rating of 30, and qualifies as a Type 1, Grade A, weather-resistive barrier in accordance with UBC Standard 14-1. The vapor retarder is installed over the sheathing in accordance with Section 1402.1 of the code. One-inch-thick (25.4 mm) EPS insulation board with a nominal 1.5-pound-per-cubic-foot (24 kg/m^3) density is installed horizontally, in running bond, to the sheathing. Reinforcement consists of 1-inch (25.4 mm) by No. 20 gage, galvanized steel, self-furring, woven-wire fabric lath. The lath, insulation board, and vapor retarder are positively fastened to the steel framing using No. 8 by $2^1/_2$-inch-long (63.5 mm), wafer-head, self-drilling screws spaced at 8 inches (203 mm) on center to all framing members. The stucco is applied to a minimum $^3/_8$-inch (9.5 mm) thickness in accordance with Section 2.1.3.1 of this report.

2.1.6 Shear Wall: A shear wall providing wall bracing required by Section 2320.11.3 of the UBC may be constructed using the stucco materials described in Section 2.1.2.1. The individual shear walls must have a maximum height-to-length ratio complying with Section 2513.4 of the code. Wall framing is minimum 2-by-4 wood studs spaced 16 or 24 inches (406 or 610 mm) on center. A weather-resistive barrier must be installed in accordance with Section 2.1.2.11 of this report prior to installation of Fome-Cor Board Lathing Material. Fome-Cor Board Lathing Material recognized in ER-3335 is applied to framing with 3-inch (76 mm) horizontal weather laps and 6-inch (152 mm) vertical laps, and is spot-fastened into place. The $1^1/_2$-inch (38 mm) by No. 17 gage wire fabric lath is then applied over the Fome-Cor Board Lathing Material and fastened to all framing members at 6 inches (152 mm) on center using No. 16 gage corrosion-resistant staples having a 1-inch (25.4 mm) crown. The staple legs must be a minimum of $1^1/_4$ inches (31.7 mm) long and must be long enough to penetrate framing at least 1 inch (25.4 mm). The lath is overlapped a minimum of 3 inches (76 mm). Lath overlaps should be offset from Fome-Cor Board Lathing Material overlaps. The exterior cementitious coating base coat is a minimum of $^1/_2$ inch (12.7 mm) thick, and is cured in accordance with Section 2.1.7.3. The finish coat is minimum $^1/_8$-inch-thick (3.2 mm) exterior cementitious coating material applied after the base coat had been properly cured in accordance with Section 2.1.7.3. The allowable racking shear is 170 plf (2482 N/m).

2.1.7 Miscellaneous:

2.1.7.1 Inspection Requirements: Building department inspection is required on wire lath installation prior to application of the coating, as noted in Section 108.5.5 of the UBC.

2.1.7.2 Control Joints: Control joints must be installed as specified by the architect, designer, builder or exterior coating manufacturer, in that order. In the absence of other details, conventional three-coat plastering details must be used.

2.1.7.3 Curing: Moist curing must be provided for 48 hours after coating application.

2.1.7.4 Soffits: The system may be applied to soffits, provided the coating is applied over metal lath complying with Table 25-B of the UBC in lieu of applying the coating over wire fabric lath. Metal lath fastening must comply with Table 25-C, except the length of the fastener must be increased by the thickness of any substrate.

2.1.7.5 Sills: The system may be applied to sills at locations such as windows and other similar areas. Sills with depths of 6 inches (152 mm) or less may have the coating and lath applied to any substrate permitted in this report, provided the coating, lath, weather-resistive barrier and substrate are installed in accordance with the appropriate section of this report. Sills with depths exceeding 6 inches (152 mm) must have substrates of solid wood or plywood. The substrate is fastened in accordance with Table 23-II-B-1 of the UBC, and over the substrate a double layer of a code-complying Grade D weather-resistive barrier is applied. The coating, lath, and optional EPS board are applied in accordance with Section 2.1.3.2 of this report.

2.2 Exterior Cement Plaster:

2.2.1 General: The Western 1-Kote Stucco, OCS, Stucco Plus Concentrate and Sto Powerwall Stucco stucco mixes described in Section 2.1.2.1 can be used as exterior cement plaster applied directly to concrete or masonry walls. The same stucco mixes can also be used as the first and second coats of exterior cement plaster of wood or steel frame construction, not required to be of fire-resistive construction, provided application is in accordance with UBC Section 2508.

2.2.2 Installation:

2.2.2.1 Concrete and Masonry Substrates: The concrete or masonry surface must be prepared in accordance with Section 2508.8 of the UBC. The application of the stucco mix must be in accordance with Table 25-D of the UBC and Section 2.1.3.1 of this report.

2.2.2.2 Wood or Steel Stud Wall Framing: Lath, weather-resistive barrier and plaster must be installed as described in Section 2508 of the UBC.

2.3 Identification:

The factory-prepared mix is delivered to the jobsite in water-resistant bags that have labels bearing the following information:

1. The name and address of Western Stucco Products Co., Inc.; or the name and address of one of the additional listees noted in this report and the logo of Western Stucco Products Co., Inc.
2. The evaluation report number (ICBO ES ER-3899).
3. Identification of components.
4. Weight of packaged mix.
5. Storage instructions.
6. Maximum amount of water and other components that may be added, and conditions that must be considered in determining actual amounts.
7. Curing instructions.

Polystyrene foam plastic insulation boards and Fome-Cor Board Lathing Material are identified in accordance with their respective ICBO ES evaluation reports. Additionally, the board density must be noted.

2.1.2.5 Gypsum Sheathing Board: The gypsum sheathing board is water-resistant core gypsum sheathing complying with ASTM C 79-92.

2.1.2.6 Backerboard: The backerboard is gypsum backerboard complying with ASTM C 630-92.

2.1.2.7 Veneer Base: The veneer base is gypsum veneer base complying with ASTM C 588-92.

2.1.2.8 Fiberboard: The fiberboard is minimum $^1/_2$-inch-thick (12.7 mm), asphalt-impregnated fiberboard complying with ANSI/AHA A194.1-1985 as a regular-density sheathing.

2.1.2.9 Wood-based Structural Panels: The panels must be minimum $^3/_8$-inch-thick (8 mm) plywood or OSB with exterior glue, for studs spaced 16 inches (406 mm) on center, and must be minimum $^5/_8$-inch-thick (15.9 mm) plywood for studs spaced 24 inches (610 mm) on center. Plywood must comply with UBC Standard 23-2, and OSB must comply with UBC Standard 23-3.

2.1.2.10 Caulking: The caulking either is acrylic latex caulking material complying with ASTM C 834 or is polyurethane, polyurethane modified, polysulfide or silyl-terminated sealant complying with ASTM C 920.

2.1.2.11 Weather-resistive Barrier: Either minimum Grade D kraft building paper complying with UBC Standard 14-1, or asphalt-saturated rag felt complying with UL Standard 55-A-1983, is required. The weather-resistive barrier must be placed over all substrates, except for the polystyrene insulation board, where the barrier may be behind the board. Application of the barrier must comply with Section 1402.1 of the UBC and this report. When applied over any wood-based sheathing, the barrier must be either two layers of Grade D building paper, as set forth in Section 2506.4 of the UBC; or one layer of minimum 1-inch-thick (25.4 mm) EPS or XEPS having tongue-and-groove edges as described in Sections 2.1.2.3.1 and 2.1.2.3.2 of this report, over one layer of Grade D building paper having a minimum water-resistance rating of 60 minutes when tested in accordance with UBC Standard 14-1.

2.1.2.12 Finish Coat: Portland cement color coat, paints, acrylic textured finishes and elastomeric coatings are finishes that are acceptable to Western Stucco Products Co., Inc., and the additional listees in this report. The finish coat manufacturer's recommendations shall be followed regarding basecoat preparations, bonding, application and curing.

2.1.2.13 Miscellaneous: All trim, screeds and corner reinforcement must be galvanized steel or approved plastic.

2.1.3 Installation:

2.1.3.1 General: The exterior cementitious coating is applied, by hand-troweling or machine-spraying in one or two coats, to a minimum $^3/_8$-inch (9.5 mm) thickness. The lath must be embedded in the minimum coating thickness, and therefore cannot be exposed. An exterior stucco finish coat, if required, may be applied without a bonding agent if applied within 72 hours of base-coat application. After 72 hours, a bonding agent, applied directly to the base coat or added to the finish coat mix, is required. The time period requirements for application of finish-coat products is at the discretion of the coating manufacturer. Flashing, corner reinforcement, metal trim and weep screeds must be installed as shown in the figures of this report. See Figure 2.

The ambient air temperature range for application of the coating is from 40°F to 110°F (4.4°C to 43.3°C); the coating is applied by applicators approved by Western Stucco Products Co., Inc., Master Wall Inc., Dryvit Systems, Inc., or Sto Corp., as applicable. The weather-resistive barrier must be applied as set forth in Section 2.1.2.11. An installation card, as shown in Figure 3, must include the name of the applicator and the product to be used, and must be on the jobsite before any weather-resistive barrier or exterior sheathing is installed. Also, see Section 4.7 of this report.

2.1.3.2 Application over Open Framing:

2.1.3.2.1 Insulation Board: The weather-resistive barrier is attached to open wood studs spaced a maximum of 24 inches (610 mm) on center.

The EPS or XEPS board described in Section 2.1.2.3 is then placed horizontally with tongues faced upward, and is temporarily held in place with galvanized staples or roofing nails. Vertical butt joints must be staggered a minimum of one stud space from adjacent courses and must occur directly over studs. The wire fabric or metal lath is then applied with $1^1/_2$-inch (38 mm) end and side laps tightly over the polystyrene boards, and fastened through the boards to wood studs with a minimum 1-inch (25.4 mm) penetration, using either No. 11 gage galvanized roofing nails with $^3/_8$-inch-diameter (9.5 mm) heads or No. 16 gage galvanized staples spaced 6 inches (152 mm) on center. Staples must have a minimum crown width of $^7/_{16}$ inch (11.1 mm). Wood species must have a specific gravity of 0.50 or greater, such as Douglas fir-larch. Care must be taken to avoid over-driving fasteners. Wall bracing in accordance with Section 2320.11.3 or 2320.11.4 of the UBC, or an acceptable alternate, is required. Application to minimum No. 20 gage steel studs is similar, except that No. 6 Type S screws are installed at 6 inches (152 mm) on center. Screws must penetrate studs a minimum of $^1/_4$ inch (6.4 mm). Steel stud spacing is a maximum of 24 inches (610 mm) on center. Outside wall corners and parapet corners are covered with additional metal corner reinforcement as shown in Figure 2.

Weep screeds must comply with, and be installed at the bottom of the wall in accordance with, Section 2506.5 of the UBC. Galvanized steel, $1^3/_8$-inch (35 mm), J-shaped trim pieces are installed at other areas where foam is exposed. At windows and doors, butting J-trim metal edges must be caulked. Holes for hose bibbs, electrical panels and other penetrations of substrate surfaces, except those caused by fasteners, must also be caulked. The coating is then applied as described in Section 2.1.3.1.

2.1.3.2.2 Fome-Cor Board Lathing Material: The weather-resistive barrier is attached to wood framing spaced a maximum of 24 inches (610 mm) on center. The Fome-Cor Board Lathing Material is installed over the weather-resistive barrier and is attached to the framing in accordance with ICBO ES evaluation report ER-3335. Minimum $1^1/_2$-inch (38 mm) by No. 17 gage, woven-wire fabric lath is attached through the Fome-Cor Board Lathing Material in accordance with Table 25-C of the UBC, using No. 11 gage nails or No. 16 gage staples having a 1-inch (25.4 mm) crown. All fasteners must penetrate a minimum of 1 inch (25.4 mm) into the framing. Wood species must have a specific gravity of 0.50 or greater, such as Douglas fir-larch. The exterior cementitious coating is then applied to a minimum $^1/_2$-inch (12.7 mm) thickness. A minimum $^1/_8$-inch-thick (3.2 mm) finish coat of the exterior cementitious coating material follows, resulting in a minimum $^5/_8$-inch (15.9 mm) overall thickness. The base coat must be cured in accordance with Section 2.1.7.3 prior to finish coat application. Other installation details are described in Section 2.1.3.2.1.

2.1.3.3 Application over Solid Backing:

2.1.3.3.1 Fiberboard: Minimum $^1/_2$-inch-thick (12.7 mm) fiberboard sheathing is installed directly over wood studs spaced a maximum of 24 inches (610 mm) on center. The fiberboard is temporarily held in place with corrosion-resistant staples or roofing nails. A weather-resistive barrier as set forth in Section 2.1.2.11 is applied over the fiberboard prior