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GFRC Cladding Systems, Inc.
118 North Shiloh Road
Garland, Texas 75042

RESEARCH REPORT: RR 24987
(CSI #03490)

Expires: October 1, 2009

Attn: James E. Tolson, Jr.
(972) 494-9000

GENERAL APPROVAL - Renewal - Glass Fiber Reinforced Concrete (GFRC) Exterior Wall Panels.

CONDITIONS OF APPROVAL

1. These panels shall be installed as nonbearing, non-combustible exterior walls.
2. Panels shall be fabricated by a Los Angeles City approved fabricator.
3. Complete engineering design and calculations for panel connection to framing shall be designed by a California registered civil or structural engineer or architect, signed, and submitted to the Structural Plan Check.
4. Dow Corning No. 795, applied between the panel back and the extrusion as a structural silicone sealant, shall be designed by a California registered civil or structural engineer as per City of Los Angeles Research Report No. 24637.
5. Identification: The panels are identified by a label noting the manufacturer's name and address, product name, thickness, flame-spread index and name of the quality control agency.
6. Panels support or resist no loads other than transverse wind loads.
7. All metallic material in contact with the panel shall be corrosion resistant.
8. Allowable flexural stress of the panel shall be in accordance with PCI "Recommended Practice for Glass Fiber Reinforced Concrete Panels.
9. Panel joints shall be made waterproof.

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GFRC Cladding Systems, Inc

RE: Glass Fiber Reinforced Concrete (GFRC) Exterior Wall Panels

10. The GFRC Panels are air cured with an acrylic thermoplastic copolymer (Forton) added to the mix. The inclusion of the copolymer in the mix ensures sufficient hydration of the cement thus waving the requirements of moist curing the panels for seven days per Section 1905.11 of the 2002 Los Angeles Building Code. The minimum and maximum percent by volume is 4½% to 6% respectively.
11. The allowable tension (pullout) and shear value based upon specimen testing with a safety factor of 3 is 300# per anchor.

DISCUSSION

This general approval of an equivalent alternate to the Code is only valid where an engineer and/or inspector of this Department has determined that all conditions of this approval have been met in the project in which it is to be used.

Evidence Submitted: Reports of diversified fire tests, physical properties tests, and transverse load tests, along with installation instructions. Satisfactory 1, 2 and 5 year test results have been submitted.

Addressee to whom this Research Report is issued is responsible for providing copies of it, complete with any attachments indicated, to architects, engineers and builders using items approved herein in design or construction which must be approved by Department of Building and Safety Engineers and Inspectors.

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YC:elcm
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4D1/104.2.6

Attachments: Typical Flex Anchor Detail (1 Page).