Diamond Wall Pro System

Premium One Coat Stucco System

DIAMOND WALL PRO is a code compliant plaster system that creates a long-lasting exterior cladding for commercial and residential projects. One coat stucco has the appearance and advantages of traditional three coat stucco, including one-hour fire-resistive-rated and noncombustible assemblies (NFPA 285), but with increased energy efficiency, reduced labor costs, and schedule savings. The Diamond Wall Pro System offers an upgrade to standard one coat stucco systems by providing improved crack resistance, flexural and tensile strength, and impact resistance.

SYSTEM DESCRIPTION

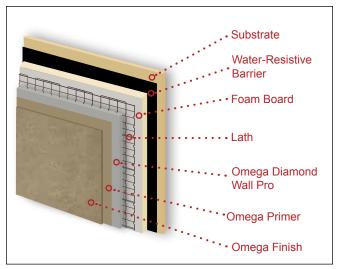
The Diamond Wall Pro System consists of a water-resistive barrier installed over open framing or sheathing. Foam board is then attached over the water-resistive barrier (foam is optional if sheathing is used). Next, metal lath is fastened over the foam board or sheathing, and Diamond Wall Pro Concentrate or Sanded base coat is applied as a single layer at a minimum 1/2-inch thickness. Diamond Wall Pro Concentrate is a factory-prepared blend of approved cement, polymer, chopped fibers, and proprietary ingredients that are field mixed with sand and water. Diamond Wall Pro is also available in a sanded version that requires only water to be added. After the base coat has properly cured, the finish coat is then applied.

DESIGN CONSIDERATIONS

- May be applied over open steel or wood framed construction with foam sheathing or the following substratates:
 - ASTM C1396 water-resistant gypsum sheathing
 - ASTM C1177 glassmat faced gypsum sheathing, such as DensGlass Gold from GP
 - ASTM C1325 cement boards, such as Durock from USG
 - ASTM C1278 gypsum fiber panels, such as Aqua Tough from Fiberock Brand
 - Exterior grade or exposure 1 plywood
 - Exposure 1 OSB
 - Poured concrete or masonry
- · Available in proprietary one-hour fire-resistive-rated assemblies
- · Available in non-combustible assemblies (NFPA 285)
- · May be panelized to meet project construction needs
- Design and installation requirements can be found in the Diamond Wall Intertek CCRR-0467 report

USES

Diamond Wall Pro is an excellent exterior wall cladding for new or retrofit residential, multi-family, commercial, or institutional projects.



Diamond Wall Pro insulating system.

DIAMOND WALL PRO ADVANTAGES

FEATURES	BENEFITS
Polymer Modified	Improved crack resistance, flexural and tensile strength, and impact resistance
Low Life-cycle Costs	Will last decades with minimal maintenance
Durable and Impact Resistant	Can withstand years of weather and physical abuse
Cement-based	Fungus, rot, and insect resistant
Fire-resistant	Non-combustible and available in 1-hour fire- resistant rated assemblies
Acceptable Base Coat for a Variety of Finishes	Cementitious or acrylic textured finishes, acrylic, paint, and stone are all finish options
Reduced Labor Costs	Only requires one base coat application
Shorter Construction Schedule	Finish coat can be applied in as little as 24-hours after the base coat; some finishes may require longer cure times
Improved Energy Efficiency	Using foam board increases the wall assembly's R-value
Consistency	Factory blended, requiring only sand and water to be added in the field
Lighter Weight	5 to 7 lbs/ft². Reduces the base coat weight by approximately 50% compared to three coat stucco
System Warranty	Up to 20-years when used in combination with other Omega products

Approved by:	Date:



<u> Diamond Wall Pro System</u>

Premium One Coat Stucco System

SYSTEM COMPONENTS

The following products are components in the Diamond Wall Pro system. Please see the product's data sheet for additional information.

WATER-RESISTIVE BARRIER

- ☐ Minimum No. 15 asphalt nonperforated felt complying with ASTM D 226 for Type I
- ☐ Minimum Grade D kraft building paper complying with Federal Specification UU-B-790 or ASTM E2556 Type II1
- Material recognized in a current evaluation report as complying with the ICC-ES Acceptance Criteria for Water-resistive Barriers (AC38)1, ASTM E2556, or approved equivalent
- ☐ When applied over any wood-based sheathing, the water-resistive barrier shall be either: (a) a minimum of two layers of Grade D kraft building paper or (b) one layer of EPS or XEPS insulation board, having horizontal tongueand-groove edges, over one layer of Grade D kraft building paper having a minimum water-resistance rating of 60 minutes
- ☐ AkroGuard Water/Air Barrier: Fluid applied water-resistive/air barrier

FOAM BOARD¹ (Optional when sheathing is used)

- ☐ EPS: Type II board complying with ASTM C578 with a nominal density of 1½ pound per cubic foot and a thickness of 1 to 11/2-inches over open framing or Type I board complying with ASTM C578 with a minimum density of 1 pound per cubic foot ½ to 1½-inches over sheathing.
- ☐ XPS: Type IV, V, or Type X board complying with ASTM C578 with a nominal density of 1½ pound per cubic foot and a thickness of 1 to 1½-inches over open framing or minimum density of 1 pound per cubic foot ½ to 1½-inches over sheathing
- Polyisocyanurate: A nominal density of 2 pound per cubic foot, and a thickness of 1 to 11/2-inches

$.\mathsf{ATH}^1$

- ☐ Woven Wire (17-gauge): Nominal No. 17 gauge [0.058 inch], 1½-inch opening, galvanized steel complying with ASTM C1032
- □ Welded Wire: Nominal No. 16 gauge [0.065 inch], 2-inch-by-2-inch opening, galvanized steel complying with ASTM C933
- ☐ Metal Lath: Complying with ASTM C847 (IBC or IRC) or with Table 25-B of the UBC as applicable

BASE COAT

- □ Diamond Wall Pro Concentrate: Diamond Wall is a factory prepared blend of approved cement, polymer, chopped fibers, and proprietary ingredients.
- ☐ Diamond Wall Pro Sanded: Diamond Wall is a factory prepared blend of approved cement, polymer, chopped fibers, proprietary ingredients, and sand.

Sand shall be clean and free from deleterious amounts of loam, clay, silt, soluble salts, or organic matter and shall be graded in accordance with ASTM C144, C897, or within the limits listed in the CCRR-0467 report.

FINISHES

- ☐ OmegaFlex Finishes: 100% acrylic-based finishes
- ☐ AkroFlex Finishes: 100% acrylic-based finishes
- ☐ AkroLastic Finishes: Elastomeric acrylic-based finishes
- ☐ ColorTek Stucco: Cement-based stucco finishes²
- ☐ AkroCoat: 100% acrylic paint
- ☐ Elastomeric 44: Elastomeric acrylic-based coating
- ☐ Travertino: Cement-based limestone finish²
- □ Valentino Finishes: Approved Valentino finishes
- MAVS: Adhered veneer

²Application of ColorTek Stucco or other cementitious finishes requires the use of a bonding agent or an

DISCLAIMER

Omega Products International [Manufacturer] MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE PRODUCT(S) SOLD HEREIN. The recommendations, suggestions, statements and technical data are based on the best knowledge available to Manufacturer and are given for informational purposes ONLY and without any responsibility for their use. It is expressly understood and agreed, as a condition of the use of this product, that the buyer's sole and exclusive remedy for any claimed defective product as a common of in use of inits product, mat in the user of search product adult proven to be defective. Handling and use of the products are beyond the control of Manufacturer; therefore, no warranty is made, expressed or implied, as to the results obtained from the use of the product or against any claims for infringement of patents resulting from use of the product. Under no circumstance shall Manufacturer be liable for incidental or consequential damages arising out of the use or the improper application of the product. Before applying the product, the user shall determine the suitability of the product for their independent use, assuming all risks and liability whatsoever in connection therewith. This writing constitutes a complete and exclusive statement of the understanding between Manufacturer and Buyer.

INSTALLATION & DESIGN REQUIREMENTS

- To reduce the likelihood of the stucco cracking, it is recommended the building carry a minimum of 90 percent of the dead building load and the interior gypsum be installed prior to installation of the stucco.
- Wood-based sheathing should be gapped 1/8-inch to allow for expansion and be attached per code requirements using corrosion resistant fasteners.
- Substrates must be structurally sound, clean, and dry without planar irregularities greater than 1/4-inches in 10-feet.
- Maximum allowable deflection of structural wall components is 1/360 of the
- Expansion joints should be installed at floor line, dissimilar substrates, and through wall expansion joints. Final expansion and control joint design and location are the responsibility of the design professional.
- Store and apply all component products per the product's data sheet.
- Do not use below grade. Terminate a minimum of 4-inches above grade, 2-inches above finished grade, or as specified by local code.
- All openings shall be properly flashed and designed to allow water to escape to the outside of the wall.
- All penetrations shall be properly flashed and/or sealed using approved
- Walls should be designed to prevent bulk water from getting behind the stucco or running down the face of the stucco. The bottom of the wall should have weep screed or another effective means to drain any water that may get
- Do not apply Diamond Wall when the ambient and surface temperature is below 40°F (4°C). To ensure proper hydration in cold weather applications (approximately 50°F to 32°F) use OmegaCure admix. Refer to OmegaCure data sheet for additional information
- Protect Diamond Wall from freezing for a period of not less than 24-hours after set has occurred.
- Protect applied product from inclement weather until dry.
- Refer to stone veneer manufacture's requirements for lath installation when applying stone over Diamond Wall.
- Sufficient slope on faces of plastered surfaces shall be provided to prevent water, snow, or ice from accumulating or standing.
- Optional EPS foam plant-ons may be used to add architectural detailing.
- Omega cement-based finishes, such as ColorTek or Travertino, may be applied after a minimum cure time of 24-hours. Omega acrylic-based finishes, such as AkroFlex and OmegaFlex Finishes, may be applied after a minimum cure time of 48-hours. Refer to finish product data sheet for additional application information.

SYSTEM UPGRADES

The following products are optional upgrades to the Diamond Wall Pro System. The use of these products will increase the system's performance and warranty. Refer to the appropriate Omega product or system data sheet for additional

PRIMER

☐ Rapid Prime or AkroFlex Primer is recommended when using acrylic-based

CRACK ISOLATION SYSTEM

The Omega Crack Isolation System reduces the appearance of stucco cracking by adding layer of fiber glass mesh embedded in base coat that is applied over the Diamond Wall.

Any Claimant shall notify Manufacturer immediately in writing of any alleged defect in the material. Claimant will pro-vide Manufacturer with a reasonable and exclusive opportunity to investigate and test for the alleged defect. For any claim that is not valid Claimant agrees to pay Omega's reasonable charges, including travel and labor associated with

TECHNICAL ASSISTANCE

Technical assistance and information is available by calling Omega Products International at (951) 737-7447 or by email at info@omega-products.com.

WARRANTY

The following is made in lieu of all expressed and implied rights, warranties and conditions, statutory or otherwise. The manufacturer's only obligation shall be to replace such quantity of products proven to be defective within one year fol lowing the date of manufacture, provided that the alleged defective product is returned prepaid to the manufacturer's plant and is accompanied with proof of purchase and batch number.