MonoLith™ System offers a low cost, impact resistant, easy maintenance stucco alternative for residential and light commercial applications. It incorporates the desired aspects of traditional stucco into a modern, lightweight exterior with excellent drainage capacity.

MonoLith™ works well with steel or wood framing which can be either load bearing or non-load bearing. MonoLith™ allows for unlimited design options when used with aesthetic EPS shapes, and three dimensional effects can be created with ease.

MonoLith™ is unique, combining the high quality of Facades brand coatings and finishes with National Gypsum’s PermaBase® cement board.

Reasons To Use Facades MonoLith™

- Lightweight alternative to EIFS or Traditional Stucco
- Excellent Drainage Capacity
- Fast Installation
- Superior Impact Resistance
- Unlimited Design Options
- Cost Efficient
Facades MonoLith™ System

An Exterior Finish System Applied Over Permabase® Cement Board with A Secondary Weather Resistive Barrier And Moisture Drainage

SPECIFICATIONS
INTRODUCTION

This document contains the Manufacturer’s Standard Specification for Facades MonoLith™ System. These specifications follow the Construction Specification Institute’s 3-part format.

TAILORING THE FACADES MANUFACTURER’S SPECIFICATIONS TO YOUR PROJECT:
These specifications cover all the common ways of using the Facades MonoLith™ System. Most projects use only a few of the possible combinations of these materials and methods. To tailor the specifications to your project, simply use those sections, which apply. Also, it may be prudent to place certain parts of the Facades MonoLith™ System Specification in other parts of the project’s total specification, such as sealants and framing. The project design professionals are responsible for ensuring that the project specifications are suitable for the project. For assistance in preparing your specification, contact your Facades Distributor or Northwest Facades Holdings, Inc.

UNITS
English Units are included in parentheses after the Standard International (SI) equivalents thus:

13 mm (1/2 in) 16 Kg/m3 (1.0 pcf)

Please note that the conversions may not be exact but rather represent commonly used equivalents.

WARNING
An air barrier should not be confused with a vapor retarder which may also be used in the wall assembly to retard water vapor diffusion and reduce the risk of condensation. Generally a vapor retarder is placed on the warm side of the wall. Specifically, it is placed on the interior side in cold climates. A vapor retarder may not be necessary depending on the wall components, the range of temperature/humidity conditions inside and outside, and the mechanical ventilation of the building. A vapor retarder should not be used on the inside of walls in warm humid climates.

DISCLAIMER
Information contained in this specification conforms to standard detail and product recommendations for the installation of the Facades MonoLith™ System products as of the date of publication of this document and is presented in good faith. Northwest Facades Holdings, Inc. assumes no liability, expressed or implied, as to the architecture, engineering or workmanship of any project. To insure that you are using the latest, most complete information, contact:
PART I - GENERAL

1.01 SUMMARY:
This document is intended use in preparing specifications for projects utilizing Facades’ MonoLith™ System by Northwest Facades Holdings, Inc. For complete product description and usage refer to the following:
A. FS0616 - Product Data Sheets
B. FS0416 - Facades MonoLith™ System Technical Drawings

1.02 SUBMITTALS
A. Submittal requirements of the contractor are to be indicated in the construction documents and should include:
1. Product literature, samples and mock up.
2. Finish sample indicating color and texture for approval by architect/owner.

1.03 DESCRIPTION
A. Facades MonoLith™ System consists of an exterior cement board installed over a code approved secondary weather resistive barrier and approved drainage medium, coated by Facades Base Coat/Adhesive or Synthetic Base Coat with embedded reinforcing mesh at joints, and color finish coat. For testing, information and product data on the substrate, cement board, and secondary weather barrier (unless the secondary weather barrier is manufactured by Northwest Facades Holdings Inc.) refer to the manufacturer.

1. Design Requirements:
   a. A sheathing board substrate installed over structural framing prior to installation of a code approved secondary weather resistive barrier to be one of the following:
      1) Exterior grade gypsum sheathing surfaced with inorganic fiberglass mats meeting ASTM C 1177.
      2) Exterior cement board
      3) APA Exterior or -Exposure 1 rated Plywood, Grade C-D or better, nominal 13 mm (1/2 in), minimum 4 ply, or APA Exposure 1 rated
      4) Oriented Strand Board (OSB), nominal 13 mm (1/2 in), installed in compliance with local code requirements.
   b. Cement board shall be minimum 13 mm (1/2 in) exterior cement board.
   c. The roofing materials shall be loaded onto the roof and interior wallboard stocked in the building prior to the installation of the Facades MonoLith™ System.
   d. Deflection of substrate systems shall not exceed L/360.
   e. The slope of inclined surfaces shall not be less than 6:12.
   f. The length of inclined surfaces shall not exceed 305 mm (12 in).

2. Expansion joints:
   1) Design and location of expansion/control joints in the substrate shall be determined by the project design professional and indicated on the contract documents. At a minimum, joints in Facades MonoLith™ System are required at the following locations:
      a) Where expansion joints occur in the substrate system.
      b) Where building expansion joints occur.
      c) At floor lines in wood frame construction.
      d) Where Facades MonoLith™ System abuts dissimilar materials.
      e) Where the substrate changes.
      f) Where significant structural movement occurs such as changes in roofline, building shape or structural system.
   h. Control joints:
      1) Design and location of control joints shall be determined by the design professional. At a minimum, control joints shall be located in the following locations:
      a) Corners or openings.
      b) Wall lengths do not exceed 6 m (20 ft).
      c) Length to width ratios of wall areas shall not exceed 2.5:1.
   i. Sealants
      1) Use and location of sealants is the responsibility of the project designer and shall be indicated on the contract documents.
      2) Sealant shall be compatible with Facades products.
   j. Vapor Retarders
      1) Use and location of vapor retarders within a wall assembly is the responsibility of the project designer and shall comply with local building code requirements. Type and location shall be noted on the contract documents. Vapor retarders may be inappropriate in certain climatic zones and can result in condensation within the wall assembly when incorrectly used.
   k. Flashing
      1) Flashing: shall be provided at all roof/wall intersections, windows, doors, chimneys, decks, balconies, and other areas as necessary to prevent water penetration behind Facades MonoLith™ System.

2. Performance Requirements: As a minimum, the Facades MonoLith™ System products shall be tested as follows:
   a. ASTM B 117: Salt Spray Resistance – 300 hrs, no deleterious effects.
   b. ASTM C 297 Bond Strength – Failure in the substrate.
   c. ASTM D 968: Abrasion Resistance – 500 L (132 gal), no deleterious effects.
   d. ASTM D 3273 Mildew/Fungus Resistance – Passed.
   e. ASTM E 84 Flame Spread – Flame Spread Index less than 25, Smoke Developed less than 250.
   f. ASTM E 96 Water Vapor Trans-
mission – Vapor Permeable.
g. ASTM G 23 Accelerated Weathering – 2000 hrs, Passed.

1.06 QUALITY ASSURANCE
A. Qualifications:
1. Manufacturer: Shall be Northwest Facades Holdings, Inc. or approved suppliers. All materials shall be obtained from Northwest Facades Holdings, Inc. or its authorized distributors.
3. Plastering Contractor:
   a. Shall be knowledgeable in the proper installation of Facades MonoLith™ System components.
   b. Shall have qualified and properly trained people to perform work.
   c. Shall be licensed, bonded and insured.
   d. Shall have experience in application of direct-applied exterior finish systems on projects of comparable scope.
4. Third Party Inspection
   a. Owner’s independent third-party inspection is recommended to verify installation according to code and contract documents. It is recommended that as a minimum, inspection items include installation of the secondary weather resistive barrier, flashings and accessories, Facades MonoLith™ System materials and sealants. The intent is to verify that the installation has been performed in accordance with code requirements, contract requirements and this specification.
   B. Mock-Up
      1. The contractor shall, before the project commences, provide the owner/architect with a mock-up for approval.
      2. The mock-up shall be of suitable size as required to accurately represent each color and texture to be utilized on the project.
      3. The mock-up shall be prepared with the same products, tools, equipment and techniques required for the actual applications. The finish used shall be from the same batch as that being used for the project.
      4. The approved mock-up shall be available and maintained at the job site.

1.07 DELIVERY, STORAGE AND HANDLING
A. All Facades MonoLith™ System materials shall be delivered to the job site in the original, unopened packages with labels intact. Questionable materials shall not be used.
B. Minimum storage temperature shall be 10 °C (50 °F) for ColorStone™ and 4 °C (40 °F) for all other products.
C. All materials shall be stored above ground, dry and protected.
D. Protect all products from weather and direct sunlight.

1.08 PROJECT CONDITIONS
A. Application of wet materials shall not take place during inclement weather unless appropriate protection is provided. Protect materials from inclement weather until they are dry.
B. Facades MonoLith™ System materials shall not be applied when wall or ambient temperatures are below 4 °C (40 °F).
C. Application of Facades Finishes shall be at a minimum ambient temperature of 4 °C (40 °F), 7 °C (45 °F) or 10 °C (50 °F), depending on specific products used. These temperatures shall be maintained for a minimum of 24 hours (48 hours for ColorStone™) thereafter, or until completely dry. Refer to the product data sheet(s) for the specific product specified.
D. If necessary, tenting, heating, and ventilation may be utilized to maintain required conditions. Heaters shall be vented to the outside.
E. Protect the Facades MonoLith™ System materials from uneven and excessive evaporation in warm windy weather. Always work the shady side of the wall.

1.09 SEQUENCING AND SCHEDULING
A. Installation of Facades MonoLith™ System shall be coordinated with other construction trades.

1.10 WARRANTY
A. Northwest Facades Holdings, Inc. shall provide a limited warranty against manufacturing defects upon written request. Northwest Facades Holdings, Inc. shall make no other warranties, expressed or implied. Northwest Facades Holdings, Inc. does not warrant workmanship. Full details are available from Northwest Facades Holdings, Inc.

1.11 DESIGN RESPONSIBILITY
A. It is the responsibility of both the specifier and the purchaser to determine if a product is suitable for their intended use. The designer selected by the purchaser shall be responsible for all decisions pertaining to design, detail, structural capability, attachment details, shop drawings and the like. Northwest Facades Holdings, Inc. is not liable for any errors or omissions in design, detail, structural capability, attachment details, shop drawings, or the like, whether based upon the information prepared by Northwest Facades Holdings, Inc. or otherwise, or for any changes which purchasers, specifiers, designers, or their appointed representatives may make to Manufacturer’s published comments.

1.12 MAINTENANCE
A. All Facades products are designed to minimize maintenance. However, as with all building products, depending on location, some cleaning and minimal maintenance may be required.
B. Sealants and flashings shall be inspected by the owner or their agent on a regular basis and repairs made as necessary.

PART II-PRODUCTS

2.01 MANUFACTURER:
A. All components of the Facades MonoLith™ System shall be obtained from Northwest Facades Holdings Inc. or its authorized distributors.

2.02 MATERIALS
A. Weather-Resistive Barrier (not a component of the Facades finish system except for WaterGuard™ System).
   1. WaterStop™ Fill: A fully formulated, noncementitious, water-based material applied over approved substrates to provide water resistance and air barrier properties.
   2. WaterGuard™ Mesh Tape: A 100 mm (4 in) wide, open weave fiberglass mesh tape used to reinforce sheathing joints and exposed edges of sheathing.
   3. Other code approved weather-resistive barrier (when selected by others) is not a component of the Facades MonoLith™ System.
B. Exterior Cement Board (by others)
   1. Shall be PermaBASE® brand cement board as manufactured by National Gypsum®.
C. Fasteners (by others)
   1. Shall be corrosion resistant steel screws.
D. Base Coat
   1. Facades Base Coat/Adhesive: A ready-mixed product composed of acrylic polymer binder, fillers, pigments, surfactants, coalescent agents, and preservatives. SBC is extremely water resistant upon curing.
E. Reinforcing Mesh: Shall be a balanced open weave, glass fiber fabric treated for compatibility with other system materials.
   1. MonoMesh™: Required at all exterior cement board joints, openings, penetrations, and inside/outside corners.
   2. RM100: Must wrap any EPS shapes, and can be installed over the entire face of the wall for additional impact resistance.
F. Finish: Shall be the type, color and texture as selected by the owner/architect and shall be one or more of the following:
   1. Facades Chameleon™ Color Finish – Class S: Water based, acrylic coating with integral color and texture and formulated with dirt pickup resistance in one of 5 textures:
      b. PebbleFloatTM: Coarse pebble texture.
      c. QuartzTexTM: Coarse swirl texture.
      d. Fine QuartzTexTM: Medium swirl texture.
      e. FreeStylus: Fine or varied texture.
   2. Specialty Finishes
      a. Colorstone: Multi colored quartz aggregate in a clear acrylic binder which simulates flamed granite.
      b. PebbleFloatTM: Coarse pebble texture.
      c. QuartzTexTM: Coarse swirl texture.
      d. FreeStylus: Fine or varied texture.
   3. Facades Chameleon™ Color Finish – Class E: Water-based, elastomeric acrylic finishes with integral color and texture and formulated with dirt pickup resistance in one of 3 textures:
      b. QuartzTexTM: Coarse swirl texture.
      c. FreeStylus: Fine or varied texture.
G. Expanded polystyrene (if applicable for aesthetic shapes): Shall be 1 pcf nominal density. EPS must meet the specification of Northwest Facades Holdings, Inc.
H. Facades Starter Track™: A vinyl track with weep holes for installation at the bottom of the system.
I. Accessories (by others) are not components of the Facades System.
   1. Type, style and manufacturer shall be indicated on construction documents.
   2. In corrosive environments, accessories manufactured of PVC or zinc are recommended.
   3. Steel accessories shall meet ASTM C 841.
   4. PVC accessories shall meet ASTM D 1784 and C 1063.

PART III-EXECUTION

3.01 EXAMINATION
A. Prior to installation of the Facades MonoLith™ System, it is the contractor’s responsibility to ensure that:
   1. The sheathing substrate is of a type listed in Section 1.05 A.2.a.
   2. The sheathing substrate and the exterior cement board surface are free of dust, loose particles, oil and other conditions that would affect the adhesion or installation of Facades MonoLith™ System materials.
   3. All fasteners are corrosion resistant and installed in a manner as to be flush with the surface of the cement board.
   4. All accessories including corner aids, control and expansion joints, casing beads, etc. are properly fastened and positioned according to contract drawings, manufacturer requirements and local building code requirements.
   5. The weather-resistive barrier is of a proper type and, if sheet form, has been installed in a weatherboard fashion in accordance with building code and manufacturer’s requirements.
   6. Doors, windows, decks, and other openings and penetrations have been properly flashed in accordance with manufacturer requirements, building code and contract documents.
   7. Metal roof flashing has been installed in accordance with Asphalt Roofing Manufacturers Association (ARMA) Standards.
   8. The cement board surface is flat within 6.4 mm (1/4 in) in 3 m (10 ft).
   9. The contractor shall notify the general contractor and/or owner and/or architect of all discrepancies. Do not proceed until unsatisfactory conditions are resolved.

3.02 PREPARATION
A. The Facades MonoLith™ System materials shall be protected by permanent or temporary means from weather and other damage prior to, during, and following application, until dry.
B. Protect adjoining work and property.

3.03 INSTALLATION
A. Mixing:
   1. WaterStop™ Fill: Due to shipping and storage, there may be some settling of materials. Prior to using, mix the material to a smooth homogeneous consistency.
   2. Facades base coat materials shall be mixed in accordance with current...
1. Facades Base Coat/Adhesive:
   a. Facades Base Coat/Adhesive: Shall be mixed in a 1:1 ratio with Portland cement. The mix is allowed to set for 5 minutes and then remixed to break the set. Refer to product data sheet for complete instructions.
   b. Facades Base Coat/Adhesive – Dry Mix: Shall be mixed with water to a uniform consistency, allowed to set for 10 minutes and then remixed to break the set. Refer to product data sheet for complete instructions.
   c. Facades Synthetic Base Coat (SBC) shall be mixed using a Jiffler mixer at 400-500 rpm to obtain a uniform consistency. Avoid air entrapment. Refer to product data sheet for complete instructions.

2. Chameleon™ Color Finishes:
   a. Chameleon™ Color Finishes are factory blended and require no additives. Mix each pail to a uniform consistency adding a small amount of water as needed to adjust workability. Ensure that the same amount of water is added to each pail of the same color.
   b. Refer to the product literature for the specific finish being used for more complete instructions.

3. Application of WaterStop™ Fill:
   a. Prepare the substrate sheathing so as to be free of foreign materials such as oil, dust, dirt, paint, wax, water repellents, moisture, frost and any other materials that may inhibit adhesion.
   b. Refer to WaterGuardTM system literature for complete instructions.
   c. Install the exterior cement board in accordance with manufacturer’s instructions and project requirements.
   d. Align sheathing joints with any spacers and install fasteners through the spacers as needed.
   e. Do not align joints with corners of wall penetrations.
   f. Exterior cement board joints shall be offset from sheathing board substrate joints.

4. Application of Base Coat:
   a. Apply Facades Base Coat/Adhesive, or Synthetic Base Coat over all exterior cement board joints and inside and outside corners and embed MonoMesh™ Joint Reinforcement into the wet base coat mixture.
   b. Allow the base coat mixture to take up until firm to the touch.
   c. Apply a continuous layer of Facades Base Coat/Adhesive, (Bucket Base or Dry Mix) or SBC over the exterior cement board face so that the entire surface of the board is covered. The reinforced base coat shall be applied to a uniform thickness of approximately 1.6 mm (1/16 in).

5. Application of Finishes:
   a. Allow the base coat to cure a minimum of 24 hours until completely dry.
   b. Ensure that the surface of the wall is clean, dry and free of any contaminants that may impair the adhesion of surface finish.
   c. Finishes may be either spray or trowel applied.
   d. Always apply the finish to a natural break to avoid visible cold joints.
   e. Always work the shady side of the wall or provide shading to avoid application in direct sunlight.
   f. Chameleon™ Color Finishes shall be applied in accordance with published Facades instructions for the specific finish being used. Refer to the published product data sheet for the specified finish.

3.04 FIELD QUALITY CONTROL
A. The contractor shall be responsible for the proper application of the Facades MonoLith™ System materials.
B. Northwest Facades Holdings, Inc. assumes no responsibility for on-site inspections or application of its products.
C. Independent third party inspection is required to verify installation according to code and contract documents. As a minimum, it is recommended that inspection items include installation of the weather-resistant barrier, flashings, and accessories, Facades MonoLith™ System materials, and sealants.

3.05 CLEANING
A. All excess Facades MonoLith™ System materials shall be removed from the job site by the contractor in accordance with contract provisions.
B. All surrounding areas, where the Facades MonoLith™ System has been applied, shall be left free of debris and foreign substances resulting from the contractor’s work.

3.06 PROTECTION
A. The system shall be protected from weather and other damage until permanent protection in the form of flashings, sealants, etc. are installed.
Facades MonoLith™ System

An Exterior Finish System Applied Over Permabase® Cement Board with A Secondary Weather Resistive Barrier And Moisture Drainage

DETAILS
Facades MonoLith™ System

1. FACADES RECOMMENDS TYVEK™ STUCCOWRAP™ BY DUPONT®
2. CEMENT BOARD PERMABASE 1/2" x 4" x 8" AS MANUFACTURED BY NATIONAL GYPSUM CO ®
3. EXPANSION JOINTS ARE REQUIRED EVERY 8' HORIZONTALLY AND EVERY 12' VERTICALLY.
4. APPROVED FASTENERS MUST PENETRATE STUDS A MINIMUM OF 3/4" FIXING CENTERS SHALL BE NO GREATER THAN 8" APART.

SECONDARY WEATHER BARRIER (SEE NOTE 1)
OSB OR SIMILAR SHEATHING
PERMABASE CEMENT BOARD
FACADES BASE COAT/ADHESIVE WITH EMBEDDED MONOMESH™ AT JOINTS (SEE NOTE 3)
CHAMELEON™ COLOR FINISH
FACADES STARTER TRACK™ WITH WEEP HOLES
FOUNDATION

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**Facades MonoLith™ System**

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Optional Starter Detail

SECONDARY WEATHER BARRIER (SEE NOTE 1)

STUD

OSB OR SIMILAR SHEATHING

PERMABASE CEMENT BOARD

FACADES BASE COAT/ADHESIVE WITH EMBEDDED MONOMESH™ AT JOINTS (SEE NOTE 3)

CHAMELEON™ COLOR FINISH

FACADES STARTER TRACK™ WITH WEEP HOLES

FOUNDATION

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Expansion Joint at Intermediate Floor Level

Option 1

STUD

CONTROL JOINT

PERMABASE® CEMENT BOARD

FACADES BASE COAT/ADHESIVE WITH EMBEDDED MONOMESH® AT JOINTS

CHAMELEON® COLOR FINISH

FLOOR JOIST

OSB OR SIMILAR SHEATHING

SECONDARY WEATHER BARRIER

---

Option 2

"PLANK" OF PERMA BASE FIXED TO UPPER BOARD, FLOATING OVER LOWER

3/4" MIN

1/2" MIN

Option 3

ARCHITECTURAL MOULDING ADHERED TO UPPER BOARD, FLOATING OVER LOWER

3/4" MIN

1/2" MIN

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   AND EVERY 12' VERTICALLY.
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Inside / Outside Corners

**Facades MonoLith™ System**

1. **Facades RECOMMENDS**
   - **TYVEK® STUCCOWRAP™** BY DUPONT®
   - **CEMENT BOARD** PERMABASE
     1/2" x 4" x 8' AS MANUFACTURED BY NATIONAL GYPSUM CO ®

2. **Facades BASE COAT/ADHESIVE** WITH EMBEDDED MONOMESH™
   AT JOINTS

3. **EXPRESSION JOINTS ARE REQUIRED EVERY 8' HORIZONTALLY**
   AND EVERY 12' VERTICALLY.

4. **APPROVED FASTENERS MUST PENETRATE STUDS A MINIMUM OF**
   3/4" FIXING CENTERS SHALL BE NO GREATER THAN 8" APART.

**SECONDARY WEATHER BARRIER**

**INTERIOR**

**RUN MESH SHORT WAY THRU/ROUND CORNER & OVERLAP WITH ADJOINING**

**EXTERIOR**

**CORNER BOARD JOINT MESH**

**OSB OR SIMILAR SHEATHING**

**Facades EXTERIOR TECHNOLOGY**

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4. APPROVED FASTENERS MUST PENETRATE STUDS A MINIMUM OF 3/4" FIXING CENTERS SHALL BE NO GREATER THAN 8" APART.

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