

Prodema®

Made to last wooden Products

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Guide Specifications for Prodema® PRODEX External Cladding

SECTION 07420 Exterior Wall Cladding

Note: These specifications were current at the time of publication but are subject to change at any time without notice. Please confirm the accuracy of these specifications with the manufacturer and/or distributor prior to installation.

PART 1 GENERAL

1.01 Section Includes

- A. Supply and install Prodema® Prodex pre-finished composite wood veneer panel exterior wall cladding product, as specified on drawings and described herein.

1.02 Related Work

Specifier Notes: Edit the following list as required for the project. Delete any sections not relevant; add others as required.

- A. Section 05100 - Structural Steel Supports.
- B. Section 05400 - Cold Formed Metal Framing
- C. Section 05500 - Building Framing Members
- D. Section 06100 - Rough Carpentry
- E. _____

1.03 Submittals

- A. Product Data: Manufacturer's data sheet on each product to be used including:
 - 1 Preparation instructions and recommendations.
 - 2 Storage and handling requirements and recommendations.
 - 3 Installation methods.
- B. Quality Assurance: Certified test results from independent testing laboratory substantiating specified performance

characteristics and physical properties.

C. Design Drawings: Submit shop drawings showing layout, profiles and product components, including anchorage, accessories, and finish colors.

D. Samples: Submit two complete sets of color swatches representing manufacturer's full range of available colors, grain patterns, vein contrast and materials for each panel finish specified.

Specifier Notes: Delete Installer Qualifications if not required. Prodema's PRODEX vertical surfacing system is designed for efficient and precise installation by carpentry tradesmen, roofing or exterior rain-screen façade installers.

E. Installer Qualifications: Certification stating that installer is experienced in the installation of the specified products, and who has completed installations similar in extent and design with a record of successful performance.

1.05 Delivery, Storage, and Handling

- A. Delivery: Deliver Materials to site in Manufacturer's original, unopened packaging, with labels clearly identifying product name and manufacturer.
- B. Panel Storage: Place inspected panels in a climate-controlled enclosed space. Horizontal Storage: Lay panels on an elevated flat surface with max .24" between supports to ensure even distribution of loads. Storage Time: Cannot exceed five months as of factory dispatch date. Protective peel-off sheet must be removed immediately after panel is installed.
- C. Handling: Open crate within 72 hours of material delivery. Remove extra top panel and inspect contents by lifting each panel vertically to prevent chafing of the decorative face. Protect materials during handling to prevent damage.

1.07 Project Conditions

- A. Do not install Prodema PRODEX material under environmental conditions where it is likely to be immersed in water, or where the temperature is likely to exceed 120 degrees Fahrenheit for extended periods of time.

PART 2 PRODUCTS

2.01 Acceptable Manufacturer

Specifier note: Delete one of the following two paragraphs.

- A. Prodema S.A. B San Miguel 9, 20250 Legorreta, SPAIN Tel: 011 34 943 80 70 00 Fax: 011 34 943 80 71 30 Website: www.prodema.com
- B. Prodema is the creator and developer of the composite HPL panel faced with a real wood veneer. Prodema has been in the wood composite business for 100+ years and introduced this rainscreen panel system to the market in 1992, now 15 years in development.

Represented by:

FORMAS, Inc., 630 Island Road, Miami, FL 33137 Phone: (866) 776-3362 Fax: (305) 572-1130 E-mail: lhg@formasinc.com

2.02 Materials

- A. PRODEX composite Wood Veneer Exterior Wall Panel
- B. Panels: Grade A rotary cut hardwood veneer from farmed forests and bonded to a bakelite core.

Specifier note: Delete one of the following two classifications for Fire Ratings.

- 1 Fire Rating: Class A in accordance with ASTM E-84 criteria for flame spread 10 and smoke development 10 and Class 1 (M1) fire rating in accordance with UNE-EN 2372
- 2 Fire Rating: Class B in accordance with ASTM E-84 criteria for flame spread 50 and smoke development 110 and Class 2 (M2) fire rating in accordance with UNE-EN 2372

Specifier note: Delete all but one of the following veneer color options:

- 1 Pale
- 2 Light Brown
- 3 Dark Brown
- 4 Deep Brown
- 5 Rustik
- 6 Mocca
- 7 Cream
- 8 Ice Grey

Specifier note: Delete all but one of the following panel dimensions. Custom sizes available on request. 1/8" (3 mm) thick panels are only available in standard Class-B product. All others thicknesses are available in Class A or Class B product

- 1 Panel Dimensions: 96" (2440 mm) long x 48" (1220 mm) wide x 1/8" (3 mm) thick
- 2 Panel Dimensions: 96" (2440 mm) long x 48" (1220 mm) wide x 1/4" (6 mm) thick
- 3 Panel Dimensions: 96" (2440 mm) long x 48" (1220 mm) wide x 5/16" (8mm) thick
- 4 Panel Dimensions: 96" (2440 mm) long x 48" (1220 mm) wide x 3/8" (10 mm) thick
- 5 Panel Dimensions: 96" (2440 mm) long x 48" (1220 mm) wide x 1/2" (12 mm) thick
- 6 Panel Dimensions: 96" (2440 mm) long x 48" (1220 mm) wide x 9/16" (14 mm) thick
- 7 Panel Dimensions: 96" (2440 mm) long x 48" (1220 mm) wide x 5/8" (16 mm) thick
- 8 Panel Dimensions: 96" (2440 mm) long x 48" (1220 mm) wide x 11/16" (18 mm) thick
- 9 Panel Dimensions: 96" (2440 mm) long x 48" (1220 mm) wide x 3/4" (20 mm) thick
- 10 Panel Dimensions: 96" (2440 mm) long x 48" (1220 mm) wide x 7/8" (22 mm) thick
- 11 Panel Dimensions: _____ long by _____ wide x _____ thick.
- 12 Panel Dimensions: As indicated on the drawings.

Specifier note: Delete all but one mounting method. Manufacturer-approved X-FAST system for Exposed Fastener Installation supplied by FORMAS, Inc.

1. Mounting: Exposed Fasteners to a Wooden Subframe.
2. Mounting: Exposed Fasteners to a Galvanized Steel Subframe.
3. Mounting: Exposed Fasteners to an Aluminum Subframe.
4. Mounting: Exposed Rivets to an Aluminum Subframe.
5. Mounting: Concealed "Z-Clip" Fasteners to an Aluminum Subframe.

PART 3 EXECUTION

3.01 Examination

Do not begin installation until substrates have been properly prepared.

- A. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
- B. Verify compatibility of different metallic surfaces in contact with each other to protect against electro-chemical corrosion.

3.02 Preparation

Specifier note: Prodema PRODEX is designed for installation over most types of conventional building exterior surfaces including but not limited to concrete block, brick, metal and wood clad structures. Walls should be reasonably flat and plumb, but do not need to be smooth. Special blocking is not required but may be used to ensure a plumb sub-frame from which to mount the Prodema® PRODEX panels.

- A. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- B. If using wood furring: A closed cell membrane must be employed as a barrier between the furring and the PRODEX only.
- C. If using metal furring: (minimum recommended thickness) Aluminum - .080", Steel -.060"
- D. Protect metal surfaces in contact with concrete, masonry mortar, plaster or other cementitious surface with isolation coating.
- E. DO NOT use caulking, gaskets or sealants on panel face or edges.

3.03 Installation

- A. Protect all sub-surfaces with appropriate weather barrier prior to mounting the rainscreen subframe. Refer to manufacturer's guide or visit www.prodema.com.
- B. As with most rainscreen products a ventilated minimum unobstructed airspace of 1-0" is required between the structural wall and the back surface of the Prodema PRODEX panels. A minimum gap of 3/8" between panels is also required along all perimeter edges. Refer to manufacturer's guide or visit www.prodema.com.
- C. All Prodema PRODEX panels must be mounted onto vertical furring and must maintain a minimum 1-0" unobstructed vertical airspace to ensure proper air circulation.
- D. All ventilated facades must maintain an opening of .8" (20mm) at base and top to promote proper airflow (i.e. convection).
- E. Gap (Joint space) along all panel edges: > .32" (8mm). Consult manufacturer for special gap conditions.
- F. Cutting: Using a static circular saw with moving blade at 4000 – 6000 RPM is strongly recommended.

- 1 A sharp tungsten carbide or diamond edge blade must be used to prevent splintering and affecting the face of the panel.
- 2 Circular Saw: Cut panels with finished face up at a rate of approximately 20-60 ft./min.
- 3 You may lightly sand cut edges to ensure a clean, crisp edge to the protective coating. Do not sand panel face.
- 4 No finishing or sealing required after cutting.

- G. Prior to mounting, pre-drill .32" (8mm) diameter holes when using metal furring and .29" (7.40mm) diameter holes when using wood furring to install panels with the Prodema approved screws.

- 1 Holes must be within .6" to 1.5" from the panel edge.
- 2 Do not over tighten fasteners as this can damage the outer coating and inhibit thermal expansion.
- 3 Screws placement must be respected using the following matrix:

These measurements represent the maximum distances between fasteners.

Distance Between Fasteners (Flat Wall) All panels in excess of 12" wide must be supported by a minimum of three vertical furring.

3.04 Maintenance

	Panel Thickness (mm)	Distance Between Fasteners
must	.125" (3mm)	12" (300mm)
	.25" (6mm)	16" (400mm)
	.32" (8mm), .40 (10mm)	24" (600mm)
	.5" (12mm)	32" (800mm)
other	.55" (14mm), .63" (16mm), .71" (18mm), .79" (20mm), .87" (22mm)	40" (1000mm)

Important: The relevant safety guidelines be observed when using solvents and chemical cleaning products. The only maintenance the Prodema panels require is cleaning, if necessary. The panels do not require any wood-preservation treatment.

Recommended guidelines for regular cleaning:

- a. Always use NON-ABRASIVE neutral soap dissolved in water.
- b. Never use abrasive cleaning powders or pastes as they may scratch the surface of the panels.
- c. Always rinse with plenty of clean water to prevent the appearance of rings. The panels do not need to be dried afterwards.
- d. To prevent damage to the surface use soft, clean cloths and sponges.
- e. Never use steel wool or Scotch Brite scouring pads as they may scratch the surface.

Remove graffiti with a clean, smooth cloth and alcohol. Otherwise, Prodema S.A. recommends using the 3M graffiti remover product

END OF SECTION

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