

# compact wood

interior & exterior surfaces



## SECTION 074200 GENERAL

### Part 1

#### 1.1 SECTION INCLUDES

- A. CompactWood® Panels: Solid wood veneer phenolic panels for exterior wall cladding of commercial and institutional buildings.

#### 1.2 RELATED SECTIONS

- A. Section 05: "Aluminum Framing"
- B. Section 07: "Thermal Insulation"
- C. Section 09: "Exterior Sheathing"

#### 1.3 REFERENCES

- A. ASTM E84 - 12 Standard Test Method for Surface Burning Characteristics of Building Materials.
- B. NEMA Standards Publication LD3-2005. High pressure decorative laminates.
- C. 2012 International Building Code, Chapter 14 Exterior Walls.

#### 1.4 SUBMITTALS

- A. Comply with Section 01330 (01 33 00) - Submittal Procedures.
- B. Product Data: Submit manufacturer's printed product literature and specifications including fabrication and assembly.
- C. Samples: Submit manufacturer's standard 3"x3" samples of panel cladding materials representative of colors, species and texture.
- D. Manufacturer's Certification: Submit manufacturer's certification that materials comply with specified requirements and are suitable for intended application.
- E. Warranty: Submit manufacturer's standard warranty.
- F. Installation Instructions (descriptive manual)
- G. Shop Drawings: Submit complete sets of fabrication/installation drawings including panel dimensions, thickness, location of joints, method of anchorage, number of anchors, supports, accessories, etc.

#### 1.5 QUALITY ASSURANCE

- A. Manufacturer's Qualifications:
  - 1. Sufficient plant facilities to provide quality and quantity of materials as required without delaying progress of the work.
  - 2. Minimum of 20 years of experience in paper saturation of phenolic resin, and producing phenolic paper laminate.

B. Fabricator

1. Fabricated by the manufacturer, and/or
2. Contracted by the customer, minimum 5 years of experience in fabrication work of exterior cladding system for the size and complexity of the projects.
3. Approved by the manufacturer.

C. Installer

1. Proven professional cladding system installer with a minimum of 5 years of documented experience.
2. Approved by the manufacturer.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Delivery: Deliver materials in manufacturer's original unopened containers/packages, with labels clearly identifying product name, manufacturer, color/texture, and weight.

B. Storage:

1. Store materials in clean, dry area in accordance with manufacturer's instructions.
2. Keep package sealed until ready for use.

C. Handling:

1. Handle materials in accordance with manufacturer's instructions.
2. Protect materials during handling to prevent damage.

1.7. WARRANTY

A. Limited warranty: Compact Wood LLC warrants that CompactWood® Architectural Panels shall be free from material defects for a period of 10 years.

**PART 2 PRODUCTS**

2.1 MANUFACTURER

A. CompactWood LLC, 2825 Commerce Parkway, North Port, FL 34289.  
Web Site: [www.compactwood.com](http://www.compactwood.com) Email: [pwest@ambientaglobal.com](mailto:pwest@ambientaglobal.com)

DISTRIBUTOR

B. National Wallcovering, 10020 Maumelle Blvd., North Little Rock, AR. 72113. Phone: (501) 378-0039  
Web Site: <http://www.nationalwallcovering.com/> Email: [keith.hudgins@nationalwallcovering.com](mailto:keith.hudgins@nationalwallcovering.com)

2.2 COMPACTWOOD® EXTERIOR ARCHITECTURAL PANELS

- A. Material: Solid phenolic laminate panel with UV protection
- B. Specie: ENTER SPECIES HERE. MUST BE PRODUCED FROM FLITCH RESERVE #2876523 also specified elsewhere in divisions 6, 8 and 10.
- C. Finish: SG
- D. Standard Size: 48"x120"
- E. Panel Thickness: 5/16", 8 mm, 3/8", 10 mm, 1/2", 13 mm
- F. Panel Core: Standard natural (brown)

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## 2.3 MINIMUM MATERIAL PROPERTIES

### A. NEMA Requirements

Description	Test	NEMA Requirements			
Thickness			0.156"	0.250"	0.500"
Resistance to	3.6				
High Temperature		Slight Effect	No Effect	No Effect	No Effect
Ball Impact Resistance:	3.8				
Inches Drop		75"	90"+	96"+	96"+
Dimensional Change:					
Length (Machine Direction)	3.11	0.3% Maximum	0.25%	0.25%	0.25%
Width (Cross Direction)		0.7% Maximum	0.50%	0.50%	0.50%

Weight Per Unit Area			
Lbs/ft2	1.07	1.71	3.42
Kg/m2	5.2	8.35	16.7
Density (PCF)	82	82	82

### B. Mechanical Properties

Property	NEMA Requirements	0.156"	0.250"	0.500"
Flexural Strength				
ASTM D-790				
MD (psi)	18,000	20,000	20,000	20,000
CD (psi)	12,000	16,000	16,000	16,000
Flexural Modulus				
ASTM D-790				
MD (psi)	1.6x106	2.0 x 106	2.0 x 106	2.0 x 106
CD (psi)	1.4x106	1.5 x 106	1.5 x 106	1.5 x 106
Tensile Modulus				
ASTM D-638				
MD (psi)	18,000	18,000	18,000	18,000
CD (psi)	12,000	13,000	13,000	13,000

C. Fire Resistance

	Product Type	
	Class A	Class B
Thickness	0.250"	0.250"
Flame Spread Index - ASTM E-84 (BLDG)*	15	30
Smoke Developed Values - ASTM E-84 (BLDG)*	15	105
Fire Rating* (Standard Product is Class B)	A	B*

\* Test Method: ASTM E84-13a - Standard Test Method for Surface Burning Characteristics of Building Materials. Also known as NFPA 255, UL 723, and UBC 8-1.

D. Manufacturing Tolerance

Thickness (.156 to .375)	+/- .020
Thickness (above .375 to 1.000)	+/- .030
CNC Shaped size (Length -Width)	+/- .020
Drill Diameter	+/- .003
Drill Depth	+/- .020
CNC Hole to Hole	+/- .020
CNC Hole to Edge (1 Oper)	+/- .020
CNC Hole to Edge (2 Oper)	+/- .030
Routing - (Slots Width and Length)	+/- .015
Routing - (Slots Depth)	+/- .020

2.4. ACCESSORIES (FASTENERS)

- A. Manufactured by approved supplier.
- B. Provide exterior wall cladding system designed to withstand the effects of dead load, live load, and accommodate hygrothermal expansion/contraction of the panel.

**PART 3 EXECUTION**

3.1 MANUFACTURER'S INSTRUCTIONS

- A. Compliance: Comply with manufacturer's/fabricator's/supplier's product data, handling and installation instruction/manual, shop drawings, shipping container/package ticket identification, etc.

3.2. EXAMINATION

- A. Verify correct panels received, including dimension, tolerance, color/texture.
- B. Verify correct attachment system received for the specific project/job.
- C. Verify all the documents, including shop drawings and installation guidelines.
- D. Verify installation conditions are satisfactory to receive work of this Section before the commencement.
- E. Verify substrate installation is complete, flat, and true to plane.

### 3.3. PREPARATION

- A. Field Measurements: Verify prior to fabrication and installation of the cladding panel.
- B. Protect surrounding areas and surfaces to preclude damage during work of this Section.
- C. Lay out work before beginning installation as necessary for true, plumb, and aligned panel installations.
- D. Verify locations of joints and panel lengths.

### 3.4. INSTALLATION

- A. Conform to manufacturer's instructions and provisions of shop drawings.
- B. Conform to fastener's instructions for installation of fasteners.
- C. Install to allow hygrothermal expansion/contraction.
- D. Use appropriate techniques/tools to work with the panel.
- E. Do not force to fit, bend, or stretch/compress.
- F. Make cutting and fitting neat, square, and true. Where required, cut, de-burr edges, and clean filings from adjacent surfaces.
- G. Do not install damaged or questionable panels.

### 3.5. FIELD QUALITY CONTROL

- A. Manufacturer's Field Service: Provide field services to ensure product installation is in accordance with manufacturer's/fabricator's/supplier's instructions and installation manuals, shop drawings, etc.

### 3.6. ADJUSTING

- A. Correct identified defects and irregularities.
- B. Replace damaged, soiled, and discolored work.

### 3.7. CLEANING

- A. Leave installation clean and free from residue and debris from work of this Section.

END OF SECTION