



**Stonewood™ Exterior Architectural Panels  
Section 07 42 00 Wall Panels  
PRODUCT DATA SHEET**

**1. Product Name**

**Stonewood Exterior Architectural Panels**

**2. Manufacturer**

Fiberesin Industries, Inc.  
37031 E. Wisconsin Avenue  
PO Box 88  
Oconomowoc, WI 53066  
Phone (262) 567-4427  
Fax (262) 567-4814  
Web Sites: [www.stonewoodpanels.com](http://www.stonewoodpanels.com), [www.fiberesin.com](http://www.fiberesin.com)

**3. Product Description**

**BASIC USE AND APPLICATION**

Stonewood Architectural Panels are used as exterior ventilated panels for building cladding or rainscreen applications.

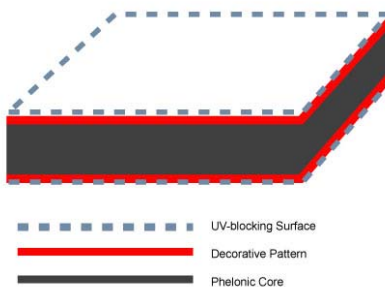
**BENEFITS**

Stonewood Panels offer the strength and durability of a solid phenolic core as well as excellent moisture and weather resistance. Countless design offerings are available in addition to custom designs. UL Class A and Class B fire rated options are available.

**MATERIAL**

Stonewood is manufactured with a core of phenolic resin-impregnated kraft paper and a face of melamine resin-impregnated decorative pattern, compressed at high pressure and temperature. The surface pattern is unlimited in color and texture, while the core is standard black or natural brown. The panel is further protected by a UV-blocking layer designed to withstand all weather conditions.

Figure 1 shows the buildup of a typical Stonewood Architectural Panel.



*Figure 1 – Stonewood Exterior Panel composition*



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**PANEL DIMENSIONS**

Stonewood is offered in 4'x8' panels and manufactured to different thicknesses. Standard thicknesses are: 5/16", 8 mm, 3/8", 10 mm, 1/2", 13 mm. Other thicknesses are available.

**MACHINED PANELS**

Stonewood Panels can also be purchased machined to specific sizes and/or pre-drilled.

**GREEN CHARACTERISTICS**

Stonewood Panels are solid phenolic, thermally-fused materials comprised of multiple sheets of kraft fiber paper. These kraft papers can be FSC® certified and contain 16% or more post-industrial, recycled wood fiber content. FSC® certification provides third-party assurance that all wood fibers are from responsible sources.

The Stonewood Panel manufacturing facility has been BIFMA level® certified.

Fiberesin offers a 100% post-consumer recycled Stonewood Panels with a Class B fire rating. This product is not FSC® certified.

**4. Technical Data**

Solid Core Phenolic Physical and Performance Test Values

|   |                    |                      |
|---|--------------------|----------------------|
| Panel Core  |                    | Black                |
| Panel Thickness   |                    | 3/8" (10mm)          |
| <b>PHYSICAL PROPERTIES</b>  | <b>Test Method</b> | <b>Result</b>        |
| Modulus of Elasticity   |                    | 1500000 psi          |
| Tensile Strength  | ASTM D638          |                      |
|   | MD(psi)            | 18,000               |
|   | CD (psi )          | 13000                |
| Flexural Strength   | ASTM D 790-07      |                      |
|   | MD(psi)            | 20,000               |
|   | CD (psi )          | 16,000               |
| Flexural Modulus  | ASTM D 790-07      |                      |
|   | MD(psi)            | 2.0x10(6)            |
|   | CD (psi )          | 1.5 x 10(6)          |
| Dimensional Stability Length<br>(Machine Direction), Width<br>(Cross Direction) | EN438-2 17         | 0.25% (L), 0.50% (W) |
| Density   |                    | 82                   |



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| <b>FIRE TESTING</b>           |                        | Class A       |
|-------------------------------|------------------------|---------------|
| Smoke Development             | ASTM E84               | 15            |
| Flame Spread Index            | ASTM E84               | 15            |
| Fire Propagation              | NFPA 285               | PASS          |
| <b>WEATHERING</b>             |                        |               |
| Color Stability               | EN438-2:29 (ASTM G152) | gray scale >3 |
|                               |                        |               |
| <b>SYSTEM/ LOCATION TESTS</b> |                        |               |
| Equivalency Letter            | ASTM E283, E330, E331  | PASS          |
| Florida Building Code         | TAS 201, 202, 203      | PASS          |

**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 |

**5. Storage and Handling**

- A. Transport materials in manufacturer's original unopened containers/packages, with labels clearly identifying product name, manufacturer, color/texture, and weight.
- B. Always transport and store horizontally.
- C. Store materials in clean, dry area in accordance with manufacturer's instructions.
- D. A supporting board must be used underneath the Stonewood Panel to drill a clean hole.
- E. Panels should be cut using a track saw on a guild rail with a blade designed for cutting aluminum/plastic. Fibersin recommends the Festool TS 55 REQ Plunge Cut Track Saw and Festool 496307 Aluminum/Plastic saw blade for reference.



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**6. Installation**

Refer to Stonewood Exterior Panels Installation Guidelines.

**7. Availability**

Stonewood Architectural Panels are available throughout North America. Go to [www.stonewoodpanels.com](http://www.stonewoodpanels.com) or contact sales at 262-567-4427 or [info@fiberessin.com](mailto:info@fiberessin.com).

**8. Warranty**

Stonewood Architectural Panels carry a 10-year product warranty.