Branch
TECHNOLOGY

COMPOSITE CORE

Product Description

Composite Core is a digitally manufactured component consisting of a 3D printed carbon-fiber reinforced ABS polymer matrix and a closed cell polyurethane foam. It is intended for use in StoPanel 3DP and BranchClad™ products and custom products as developed by Branch Technology. It is made exclusively by Branch Technology and in accordance with the following requirements.

FEATURES	BENEFITS
Lightweight	Prefabricated
Precisely manufactured	Ease of installation
Tested for fire exposure	Use on all construction types
Zero waste in 3D print	High R-value
Manufactured in the USA	Highly customizable
Continuous insulation	

Regulatory Compliance

- Foam system formulated for use where building codes specify 25 flame spread and less than 450 smoke density per ASTM E84 requirements at 4-inch thickness
- Nominal 2.5 lb/ft^3 (40 kg/m^3) Closed Cell Rigid Spray Polyurethane Foam (SPF) insulation in substantial compliance with ASTM C1029, with the exceptions of referenced standards ASTM D2842 and ASTM D6226
- R-value at 75°F. ** 6.45/in. **
- Not to exceed average thickness of 10.5 inches (267 mm) per NFPA 285 compliance

Storage

The Composite Core is combustible. Protect and store away from physical impact and sources of high heat, ignition, sparks, flames, flammable or volatile materials. Store in original packaging off the ground in a dry location clear of obstructions. Protect from UV exposure and avoid covering with dark colored tarps or other coverings, which can cause heat build-up and surface deformation. Protect all surfaces and corners.

Packaging and Sizes

Palletized with marine grade opaque shrink film, up to 4x8 ft (~1219x2438mm) at max thickness of 12 in (~304mm)

Shelf Life:

18 months, if properly stored in original packaging.

Limitations

- Service temperature limit:0°F to +175°F
- A protective barrier or thermal barrier is required as specified in the appropriate building code to separate this product from interior space.

Surface Preparation

Ensure all Composite Core surfaces are clean, dry and free of surface contamination prior to use.

Sustainability

Branch Technology is a leader in innovative building material systems delivering high-quality products and services. Branch Technology is committed to driving sustainability by delivering zero waste processes and digitally manufactured products made and sourced in the USA. Branch offers long-lasting products that are as robust as they are revolutionary.

Composite Core
Product Rendering

Branch Technology
1530 Riverside Drive
Building B
Chattanooga, TN 37406
Tel: 423-682-8800

www.branchtechnology.com

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ATTENTION

This product is intended for use by qualified professional contractors, not consumers, as a component of a larger construction assembly as specified by a qualified design professional, general contractor or builder. It should be installed in accordance with specifications provided by Branch Technology. Branch Technology disclaims all, and assumes no, liability for on-site inspections, for its products applied improperly, or by unqualified persons or entities, or as part of an improperly designed or constructed building, for the nonperformance of adjacent building components or assemblies, or for other construction activities beyondBranch Technology's control. Improper use of this product or use as part of an improperly designed or constructed larger assembly or building may result in serious damage to this product, and to the structure of the building or its components.