

CCEWOOL® LBP Shapes for Telecommunications Industry



Temperature Grade: 1200°C (2192°F)

CCEWOOL® Low Biopersistent Fiber Shapes for telecommunications cabinets are manufactured from high-purity in-house produced AES fibers using a vacuum forming process, followed by precision CNC machining according to customer drawings. The product is specifically designed for retrofit

telecommunications cabinets and is applied in the thermal insulation and structural support area beneath battery racks.

Considering the limited internal space and complex installation structures within telecom cabinets, strict dimensional control is implemented throughout the design and manufacturing process to ensure precise installation clearances, preventing installation failure or difficulties caused by dimensional deviations.

With a high-density structure (360 kg/m³), the product provides stable thermal insulation performance while delivering excellent mechanical strength to support long-term operational reliability of battery rack systems.

Characteristics:

High Dimensional Precision;

Low Shrinkage Stability;

Excellent Thermal Insulation Performance;

High-Density Structure (360 kg/m³);

Lightweight and Easy Installation;

Low Bio-Soluble Fiber System.

Application:

Battery Rack Base Insulation Module for Telecom Cabinets



Installed between the battery rack and cabinet base structure to form a stable thermal insulation layer, reducing heat transfer toward battery areas and improving system operational safety.

Retrofit Telecommunications Cabinet Structural Adaptation Components

Custom-machined according to drawings for retrofit projects, enabling precise integration with existing structures and supporting fast installation and reliable fixation.

Battery System Thermal Management Isolation Layer

Functions as a thermal isolation interface between battery systems and cabinet structures, optimizing localized thermal environments and reducing heat accumulation risks.

Precision Custom-Shaped Structural Support Components

Used in space-constrained or structurally complex areas to provide insulation and mechanical support, ensuring stable installation of internal equipment components.

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CCEWOOL® LBP Shapes	
Classification Temperature (°C)	1200°C (2192°F)
Color	Light Bluish
Density (kg/m³)	300-360
Modules of Rupture (MPa)	≥0.25
Compressive Strength (MPa, 10% relative deformation)	0.15
Loss of Ignition (%)	≤7
Permanent Linear Shrinkage (%)	1100°C x 24h ≤2.0
Thermal Conductivity (W/m·K)	
200°C	0.05
400°C	0.08
600°C	0.1
800°C	0.12
1000°C	0.14