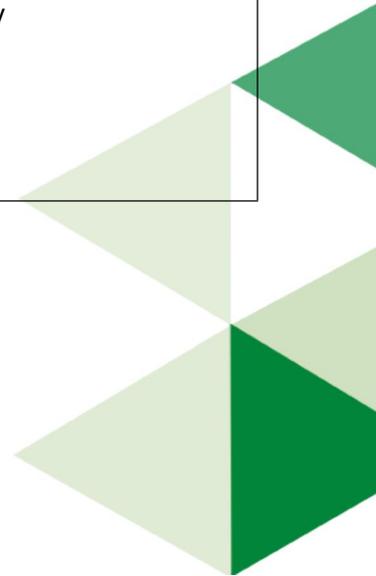


CCEWOOL® Module Structural Types

Multiple Module Configurations for Different Furnace Lining Designs

CCEWOOL® high-temperature fiber modules are available in a variety of structural configurations to accommodate different furnace designs, installation methods, and operating conditions. By optimizing fiber folding patterns and structural design, the modules improve fiber orientation, load distribution, and overall sealing performance of the lining system, resulting in enhanced installation efficiency and long-term operational stability.

	
<p style="text-align: center;">S-Fold Module</p>	<p style="text-align: center;">U-Fold Module</p>
<p>The S-Fold module is formed by continuous corrugated folding, creating a structure where fibers are arranged in a continuous and uniform orientation throughout the module. This design provides strong resilience and allows the module to generate sustained compression after installation, effectively compensating for thermal shrinkage during high-temperature operation.</p>	<p>The U-Fold module is formed through a U-shaped folding process, resulting in a balanced fiber orientation within the module. This structure provides stable load distribution and consistent dimensional performance, maintaining structural integrity under thermal cycling conditions.</p>
<p>Structural Features: Continuous and uniform fiber orientation with a dense structure Excellent resilience for thermal shrinkage compensation Tight compression joints formed between modules after installation Suitable for large-area furnace lining applications</p>	<p>Structural Features: Balanced fiber orientation Stable structural load distribution Good dimensional consistency High installation efficiency</p>



	
<p align="center">L-Type Module</p>	<p align="center">Stack Module</p>
<p>The L-Type module is developed based on the U-Fold structure by adjusting the fiber orientation into an L-shaped configuration. It is specifically designed for furnace edges, corners, and transition zones, helping to minimize installation gaps and improve lining continuity.</p>	<p>The Stack module is manufactured by layering and compressing fiber blankets into a multi-layer structure. This configuration ensures more uniform fiber distribution and forms a stable module structure after installation.</p>
<p>Structural Features: Ideal for furnace edges and transition areas Reduces gaps between modules Improves overall lining sealing performance Enhances adaptability in complex structural areas</p>	<p>Structural Features: Multi-layer fiber arrangement Uniform density distribution Flexible installation options Suitable for various furnace lining designs</p>
	
<p align="center">Superbloc® Module</p>	
<p>The Superbloc® module is a monolithic, one-piece structure produced through a continuous automated process, without layered folding or assembly. The internal fiber structure is continuous and uniform, with high compaction density, providing superior structural strength and long-term stability. Compared with traditional folded modules, this design minimizes interlayer loosening and localized shrinkage, ensuring better integrity of the furnace lining under high-temperature operating conditions.</p>	
<p>Structural Features: Monolithic structure with no interlayer joints Continuous and uniform internal fiber structure High compaction density and structural stability Reduced joint gaps for a more airtight lining system</p>	

Fabrication Capability

In addition to standard module configurations, CCEWOOL® offers Fabrication customization services based on furnace design and customer drawings, including:

Custom module dimensions

Adjustable module density

Custom-shaped (special geometry) modules

Dedicated anchoring system design

Customized module solutions help improve installation efficiency, structural stability, and long-term reliability of furnace lining systems.

Module Selection Guide

Different module structures are suited to specific furnace areas and installation conditions. Typical recommendations are as follows:

Module Structure	Typical Application
S-Fold Module	Large-area furnace walls and standard lining zones
U-Fold Module	General-purpose furnace linings for most industrial furnaces
L-Type Module	Furnace edges, corners, and transition areas
Stack Module	Complex structures or areas with limited installation space
Superbloc® Module	High-performance linings or areas with high-velocity gas flow

