



## **DELTA BN® MODULE**

## COMPRESSED FOLDED FIBER MODULES FOR CORNERS & TRANSITIONS

**Delta BN® Modules** have the highest insulating value achievable in a ceramic fiber lining. Each module is comprised of folded blanket under compression to insure a tight seal and a "spring-back" action not found in typical wallpaper linings.

### Noted features of a BN® Module lining are:

- Fast & Easy installation.
- Low heat storage and fuel costs
- Self-Supporting internal hardware reduces structural steelwork vs. castable or brick linings.
- Thermal shock resistance speeds up heat ups and cool downs for quick turn-around times.
- State-of-the-Art SlipLine™ Hardware provides easy installation in tight areas.
- No gaps between transitions or corners.
- Manufactured in the USA with Unifrax Blanket

## Typical Applications for BN® Modules are:

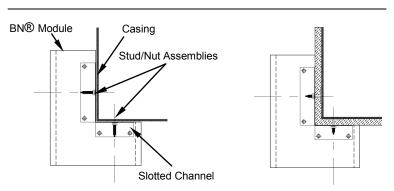
- Stress Relieving Furnaces
- Annealing Furnaces
- Car Bottom & Heat Treating Furnaces
- Process Heaters
- Reheat Furnaces
- Kiln & Boiler Linings
- Incineration Equipment
- Stack Linings
- Forge Furnaces
- Arch Transitions
- Door Jambs & Corners

#### Size & Densities Available

- 8, 9.3, 10.7, 12 (Lbs/Ft<sup>3</sup>)
- Standard Sizes range from 24" x 24" to 12" x 12" in thicknesses from 4" to over 12"
- Custom sized, pre-cut modules, & special bolt locations are also available for a seamless installation.
- BN™ Modules are also available in a cut hot face "edge grain" style.

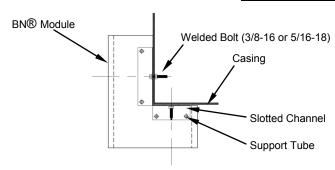


## Typical BN™ Installation Methods



**BN® Bolt-On** 

BN® Bolt-On w/ Backup Lining



**BN® Bolt-Thru** 

Great for tight spaces in Flues, Stacks, & Transitions where tools & quide rods are hard to reach.

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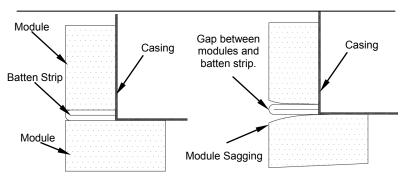




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## **Drawbacks of Conventional Bull Nose Installations**



Typical Pre-Fired Installation.

Module Shrinkage after Firing to Operating Temperature.

Typical Product Parameters	Grade (Recommended Operating Temperature)		
Chamical Composition	1800°F (1800°F)	2300°F (2150°F)	2600°F (2450°F)
Chemical Composition	· , ,	. ,	
$Al_2O_3$	31-35%	43-47%	29-31%
SiO <sub>2</sub>	50-54%	53-57%	53-55%
ZrO <sub>2</sub>	5%	_	15-17%
Fe <sub>2</sub> O <sub>3</sub>	1.3%	Trace	_
TiO <sub>2</sub>	1.7%	Trace	_
MgO	*0.5%	_	_
CaO	≤ 7.5%	_	_
Na <sub>2</sub> O <sub>3</sub>	_	< 0.5%	_
Alkali	_	0.05%	_
Leachable Chlorides	_	< 10 ppm	< 10 ppm
Other Inorganics	_	0.85%	_
*MgO and other trace elements	S		

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