



Installation Story #29 Foamfrax® Insulation

Industry:	Brick
Location:	Southeast United States
Installation Date:	December 2003
Type of Unit:	Tunnel Kiln
Operating Temperature:	2100°F (1150°C) @ soak
Scope of Job:	Foamfrax Grade I Veneer 2" Thick Over Dense Refractory Brick



The scope of work consisted of a 2" thick Foamfrax Grade I Veneer on the sidewalls and arched roof in the soak zone. The goal of this application was to lower heat loss and provide better temperature uniformity in the soak zone.



Foamfrax Grade I Insulation was applied 2" thick per the standard guidelines for Foamfrax veneers. Fiberstick Refractory Cement was used as a surface preparation applied to the brick surface just prior to installing the Foamfrax Grade I veneer.



Key benefits the customer realized from this installation were:

1. Better temperature uniformity in the soak zone, which resulted in a more consistent/controlled burn yielding less color variation in the finished product.
2. Kiln throughput was increased from 24 cars/day to 26 cars/day, an 8.3% gain in productivity.
3. Annual fuel savings of 3% due to the reduced heat loss and heat storage from the lining system.

With the installation of Foamfrax Insulation, the following customer benefits were realized:

- **Turnkey Installation Service:**

- A specially trained Unifrax distributor/contractor was able to supply materials, equipment, and installation as a complete package.

- **Installation Speed**

- The entire installation was completed during the planned annual maintenance shutdown for the kiln. No additional downtime was required.