



Installation Story #19 Foamfrax® Insulation

Industry: Aluminum
Location: England
Installation Date: March 2002
Operating Temperature: 1380°F (750°C)
Scope of Job: 3" (76mm) Isofoam Full Thickness Lining
Aluminum Soaking Pit Fan Housing (External Insulation)



Re-circulating fans serve to move air throughout aluminum soaking pits in order to distribute heat evenly across the slabs. For increased efficiency, the fan housings are often insulated to reduce heat loss. Traditional methods to insulate fan housings are to cut and fit ceramic fiber blanket, which due to the irregular geometries of these units can be very difficult and labor intensive to install. Spider netting was adhered to the housing exterior and small "V" anchors were welded randomly on approximate 6" (152mm) centers. Isofoam™ Insulation was then gunned directly onto the fan housing and the exposed surface troweled smooth. This installation took place during a shutdown while the fan was not running and the housing was at ambient temperatures.

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

- **Turnkey Service**
 - A specially trained Unifrax distributor contractor was able to supply materials, equipment, and installation as a complete package.
- **Fuel Efficiency**
 - The installation of Isofoam Insulation served to decrease heat loss from the fan housing and improve heating uniformity within the soaking pit.
- **Installation Speed**
 - The complete Isofram installation was completed in one eight hour shift compared to the three eight hour shifts required to use traditional installation methods.

Unifrax Corporation ♦ Corporate Headquarters ♦ 2351 Whirlpool Street ♦ Niagara Falls, NY 14305-2413
Telephone 716-278-3800 ♦ Telefax 716-278-3900 ♦ Website www.unifrax.com