

Precast furnace lining

A modern melting furnace comprises many things, including interfaces with peripheral equipment such as a charging machine and stirring equipment. The fundamental furnace design incorporates an energy-efficient combustion system and a PLC based control system with communication capabilities. The equipment configuration is critical to its mission success and nothing is more important than the refractory lining installed in the furnace.

The GNA Alutech furnaces shown were lined with precast blocks from Wahl Refractory Solutions. MegaBRIX® is their brand name for any precast furnace lining for new construction or furnace rebuilds. Wahl precast block was chosen for



this project because of the superior refractory properties achieved while minimising installation and dry-out time. Refractory materials are custom formulated in their Ohio plant to ensure proper selection for the application. The use of precast shapes offers improved properties over cast-in-place refractories due to precise water additions, controlled mixing, casting and dry-out processes.

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Conclusion of the tilting test for a series of GNA 40 t melting furnaces.