



PRODUCT INFORMATION

CE-267
04/16 Supersedes 11/13

PENNGUARD™ 55 BLOCK

DESCRIPTION

PENNGUARD 55 Block is a foamed borosilicate glass block. As an inorganic glass it is highly resistant to acids, solvents, and weak bases. The material is made as a closed cell foamed glass block and is virtually impermeable to liquids and gases. PENNGUARD 55 is lightweight, and retains low thermal conductivity even when immersed in acid. PENNGUARD 55 Block is often used in conjunction with PENNGUARD Adhesive/Membrane and associated primers as a component of the PENNGUARD Block Lining System. **Consult Corrosion Engineering specification [CES-350](#) for complete installation details.**

AREAS OF USE

PENNGUARD 55 Block offers a unique approach to protecting flue gas handling and conveyance equipment such as ductwork, chimneys, and scrubber inlets/outlets found in coal fired power plants and other industrial facilities. It is suitable for metal, concrete, brick, and FRP substrates. It protects from acid condensate corrosion, while providing excellent thermal insulation and energy conservation, even in saturated flue gas environments.

PENNGUARD 55 Block is also used in process vessel linings where the unique insulating properties combined with its excellent acid resistance make it an ideal candidate to address very specific areas of concern. Hot flue gas inlets or heated process vessels can benefit from the highly insulating properties of PENNGUARD 55 by significantly reducing surface temperatures to the underlying membrane where conventional hard masonry does not provide sufficient insulation.

OUTSTANDING FEATURES

- Resistant to corrosive flue gas environments.
- Low thermal expansion resists thermal shock and upset temperatures.
- Excellent thermal insulation, energy savings, eliminates external insulation.
- Virtually zero permeability, capillarity, and absorption, closed celled structure.
- Retains insulating properties even in wet or immersion service conditions.
- Lightweight. Easy to cut - suitable for shop or field application.

