SAINT-GOBAIN PERFORMANCE CERAMICS & REFRACTORIES

ENERGY RECOVERY

EFFICIENT REFRACTORY SOLUTIONS FOR THE THERMAL TREATMENT OF WASTE





APPLICATION & PRODUCTS



CORROSION - OXIDATION OF MATERIALS

Test: ASTM C 683 - steam corrosion 1000°C for 500 h





The oxidation of the tiles leads to an expansion and weakening of the structures



Refrax[®] solutions have a low oxidation level to ensure their longevity

T-CLIP® PRO SYSTEM



600

400

APPLICATION

Can be used in all installation systems, for vertical boiler tube walls, e.g. the side walls, back and front walls, as well as the slanted tube walls on the ceiling, like inlet ceiling, burn out and boiler ceilings.

SYSTEM FITTINGS

Anchorage to the tube wall: Threaded bolts with round washers made from heat-resistant steel.

Backfilling mix: Offers added protection against flue gases and reduces the anchor corrosion.

Refrax® PLUSflow with higher thermal conductivity. The self-flowing and selfcompacting SiC concrete is formulated to fill a defined gap between the tile and the tube wall.

This ensures optimal contact to the wall and offers added protection against flue gases.

Note: If the angle is smaller than 15°, the tiles have to be laid using SiC mortar, Refrax[®] PROmor. Ceramic fibre mats or fibre paper to compensate for potential expansion.

BENEFITS



T-CLIP® PRO solution

600

400

7

49 mm

REFRAX® RANGE

SHAPED PRODUCTS

MATERIAL	DESCRIPTION
Refrax [®] PRO	Tried and tested material with narrow tolerances. Application area: Standard product for the first pass and the combustion area.
Refrax® PLUS	Improved patented premium product for the toughest requirements. Application areas: For all areas - particularly suited for areas exposed to high wear, high stresses and for repairs.
Refrax [®] TOP	Doped patented, doubled fired material with glazed surface. Application area: For all areas - particularly suited for areas exposed to aggressive ash and slag.

CASTABLE / MORTAR

MATERIAL	DESCRIPTION
Refrax [®] PLUSflow	Backfilling mix with maximised thermal conductivity for T-CLIP® systems.
Refrax [®] PROmor	Mortar for 45°, CFB systems and belly bricks.



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