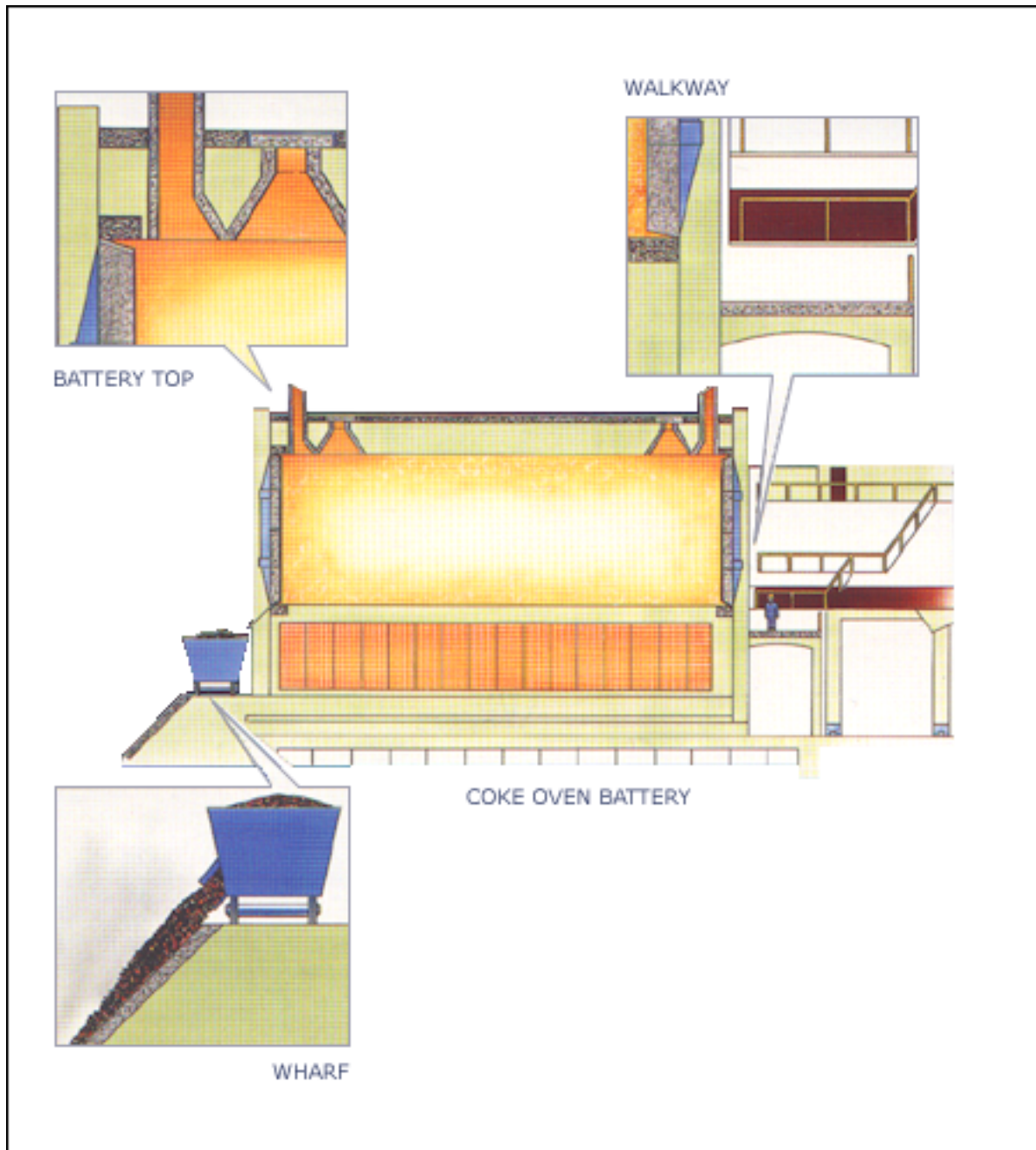
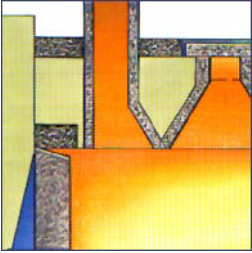


FIBRETECH: SAVING COSTS IN COKE MAKING

A unique range of Stainless Steel Fibres for Coke Plant Refractories offering:

- Improved Refractory Performance
- Lower Installation Costs
- Better Operating Efficiency
- Lower Refractory Costs
- Increased Operating Plant Availability





BATTERY TOP

Charge Hole Cover and Seal

Mechanical abrasion while charging the ovens is unavoidable but can cause charge-hole refractory to quickly crack and spall, destroying the seal. Fibre-reinforced refractory withstands such mechanical wear to maintain an efficient seal against emissions and expensive energy loss.

Recommendation: ME446

Battery Top

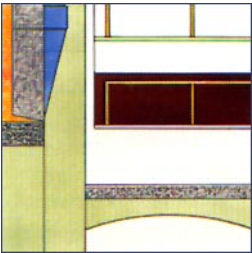
Vibration, thermal expansion and the need for good thermal insulation places particular demands on this application's refractory. A castable reinforced with fibres is extremely tough and will minimise energy loss and mechanical wear.

Recommendation: ME430

Ascension Pipes

Hot waste gases and particles can impact and erode this refractory lining, reducing thermal efficiency and increasing maintenance costs. In this application fibres can improve refractory toughness by more than 100%, thereby halving maintenance costs.

Recommendation: ME446



DOORS AND WALKWAYS

Walkways

Hot coke spillage and mechanical wear from heavy plant can crack walkway concrete, making movement difficult and sometimes dangerous. The added mechanical strength imparted by fibres provides economies of 200-300%.

Recommendation: ME430

Doors

An efficient door helps eliminate gas emissions and heat loss. But, conventional pusher and coke-side doors can leak if their refractory cracks or spalls e.g. after repeated thermal cycling, water jet cleaning of tar and carbon deposits etc. Fibres however reduce cracking, thereby improving energy efficiency and emissions control and reducing maintenance costs.

Recommendation: ME446



WHARF

Coke Wharf Tiles

Fibre-reinforced wharf tiles have excellent mechanical and thermal shock resistance. They remain flat, smooth and unbroken despite repeated discharging and quenching of the coke on the wharf, which would otherwise quickly crack and spall non-reinforced tiles.

Recommendation: ME430
