

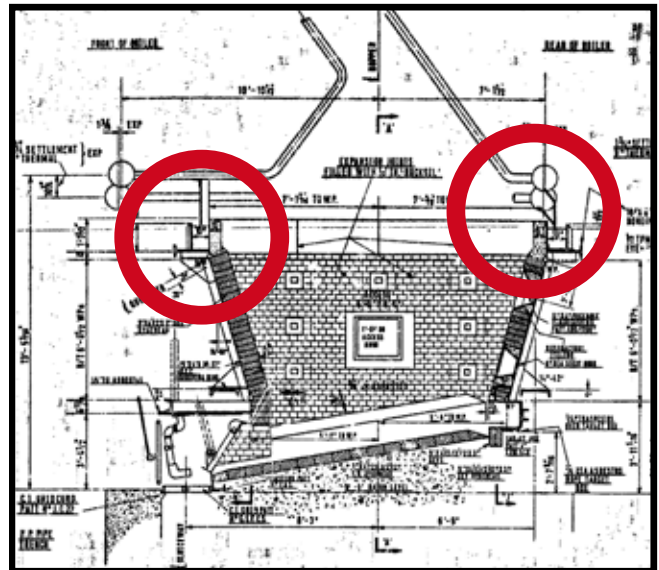
Conventional Fossil Fired Boilers Ash Hopper Joint

The Ferrybridge power plant had installed an original dipper plate into a water trough to seal the bottom of the boiler to the ash hopper.

Regular maintenance problems caused by this problem have been encountered:

- contact and deformation of the dipper plate
- distortion of the water trough
- water leakage into the boiler house
- pressure loss due to no sealing of water trough
- regular cleaning and maintenance due to ash build up
- efficiency of draught fans

Ferrybridge – Original Design



Ferrybridge original design: Sealing system with dipper plate and water through

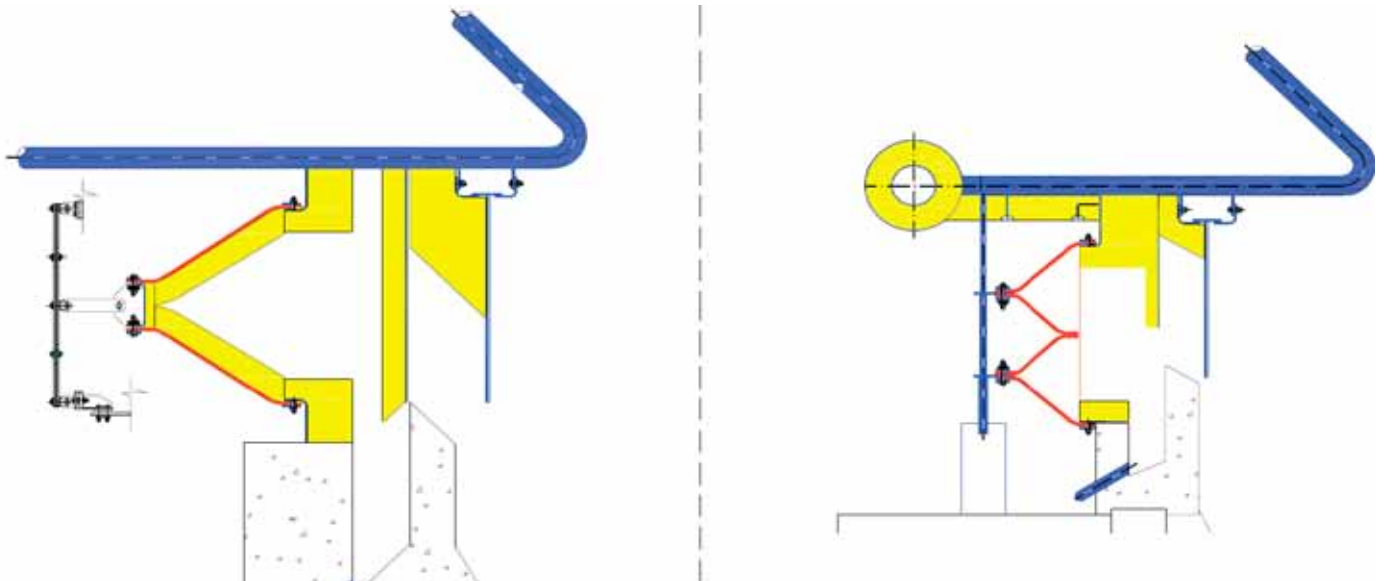


Conventional Fossil Fired Boilers

Ash Hopper Joint



Two technical solutions proposed by DEKOMTE



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Dimension inside:	32813 x 9439 mm
Boiler internal temperature:	900 C°
Temperature at fabric:	300 C°
Pressure static:	- 1 mbar
Movement:	axial: -200 mm lateral: 80 mm

DEKOMTE proposed a number of standard and high tech solutions to solve the problem.

The solution offered incorporates an internal ash guard, steel frame, fabric joint and fixing system. By offering a complete product scope, DEKOMTE can assure a long life and reliability in service.

The fabric solution installed, gives a gas tightness which maintains boiler efficiency and integrity.



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Installation

Removal of steel parts



Repair of boiler wall and refractory





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Installation of DEKOMTE steel parts



Installation of DEKOMTE internal insulation bolster

Installation of DEKOMTE fabric joint





Conventional Boiler

Ash Hopper Joint

Joint in operation

