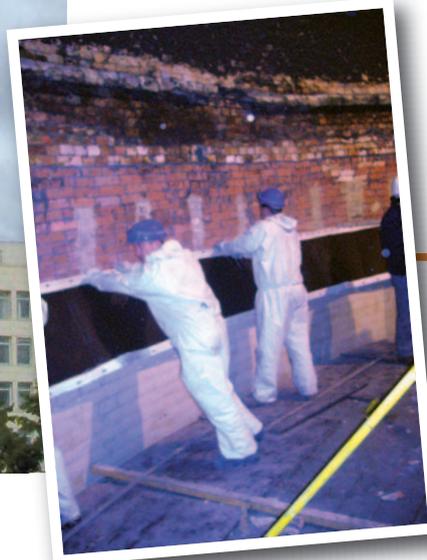# FERBECK
INDUSTRIAL CHIMNEYS

Refurbishing of the inner brick liner in a 250m concrete stack in Vilnius (Lithuania).
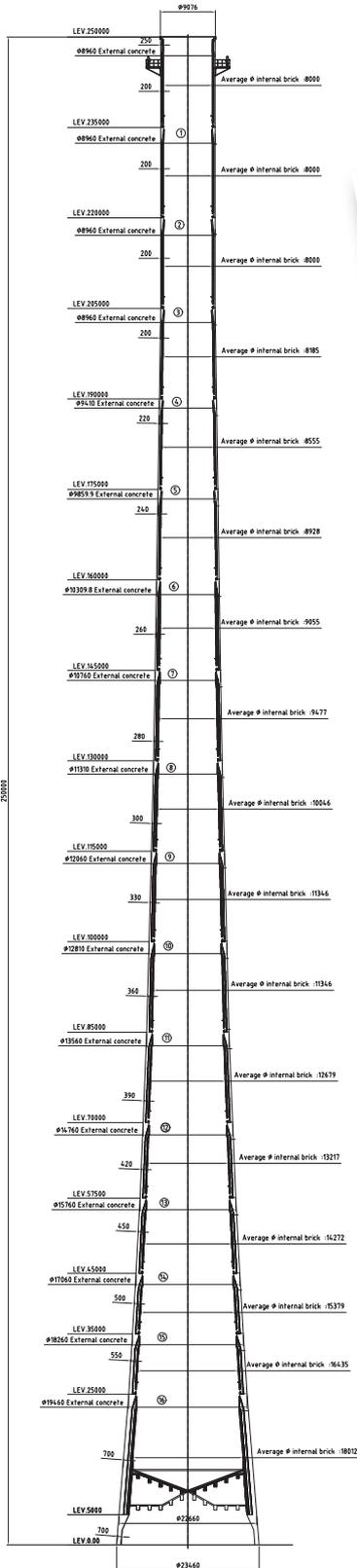

FERBECK INDUSTRIAL CHIMNEYS designed and implemented special expansion joints in between the 17 segments of the brick liner. They eliminate stress in the brick segment meaning an significant increase of brick liner lifespan.
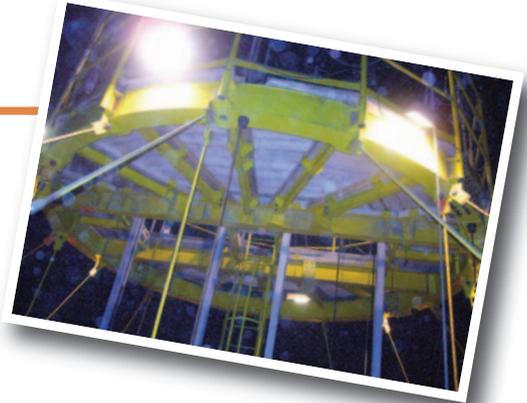

The inner liner of this stack was worn out. The condition of this chimney, essential for the district heating of Vilnius (90% of the Lithuanian capital's flats and houses are heated by this plant), was so worrying that the owner decided to carry out a main maintenance in emergency. After having performed an exhaustive evaluation of the situation and an analyse of the reasons for these damages, FERBECK INDUSTRIAL CHIMNEYS proposed to improve the design of the brick liner, to replace the damaged segments of the brick liner and to implement flexible joints in between the segments for to insure tightness of the liner at any location and to removed any kind of stresses in the brick liner. Special radial tongue and groove bricks have been used for this repair work.
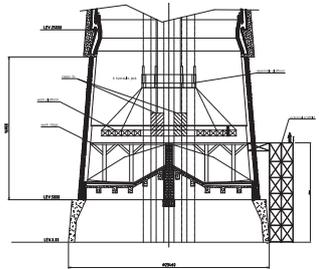
The damaged parts have been demolished and replaced by new bricks. Altogether, 1,500 tons of bricks have been removed and replaced by 1,200 tons of bent bricks with tongues and grooves.

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Sometimes, it has been necessary to replace additional full brick segments not included in the original scope of work. Then, FERBECK INDUSTRIAL CHIMNEYS showed its adaptation capacity and its faculty to react quickly by supplying immediately the complementary materials and to finish on time in spite of this unforeseen works.

So that the workers can work in the best condition in regard of the security and the ergonomic, FERBECK INDUSTRIAL CHIMNEYS installed a special working platform inside of the chimney. This platform was adjustable in diameter from 17 m at stack bottom down to 8 m at stack top. The working platform was driven by hydraulic jacks.

The result was clear : the works have been finished on time and the "O accident" goal have been reached.

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