



# Nordural Nordic Aluminium Iceland

## Case History

PROJECT:	Nordural Nordic Aluminium
PROJECT LOCATION:	Iceland
THE COLT SOLUTION:	Natural ventilation units
COLT PRODUCTS USED:	Colt Labyrinth

### EXISTING ALUMINIUM SMELTER

The existing ventilation openings at the aluminium smelter of Nordural Nordic Aluminium in Iceland no longer satisfied current requirements. At Nordural's request, Colt implemented a solution. Keeping the need for additional constructional provision to a minimum, Colt replaced the ventilation openings in this building with natural ventilation units, type Colt Labyrinth. This comprised 780 metres in total.

### CONSTRUCTION OF A NEW ALUMINIUM SMELTER

Afterwards, Colt was asked to also fit a natural ventilation system to the new building, construction of which had already begun. The Labyrinth fitted to the new building comprised approximately 1200 metres with a roof opening of 4.5 metres.

### AIR SUPPLY

For the openings in the basement, Colt supplied 934 natural air supply grilles measuring 3 metres wide and 1.4 metres high. These grilles meet extremely high standards. Tests resulted in the following technical data:

- Windload: 2 KN/m<sup>2</sup>
- Life cycles: 30,000
- Rain and wind test: 75 mm/hr with 13 m/s wind



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