

# Perforated Ductwork Installation

## CHALLENGE



For the last three years, HVDS has been involved in a project to replace the interior ductwork for major European food retailer, Lidl, across multiple sites.

We started the project with a survey to establish the exact requirements for the stores, including a tailored layout and design.

Due to Computational Fluid Dynamics (CFD), it is possible to realistically evaluate the temperatures and air velocities at every point in the room, even in the planning stage.

On commencement of the work, the old ducting is removed, then the new perforated ducting is put in its place. One of the benefits of HVDS perforated ducting is that it requires few accessories to install, making installation relatively quick. For this reason, each store is completed in a matter of days.

We have upgraded ductwork in more than 20 stores for the retail chain to date.



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## CASE STUDY

## PERFORATED DUCTWORK INSTALLATION

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### WHY PERFORATED DUCTING?

The benefits of perforated ducting for Lidl are numerous.

#### Aesthetics

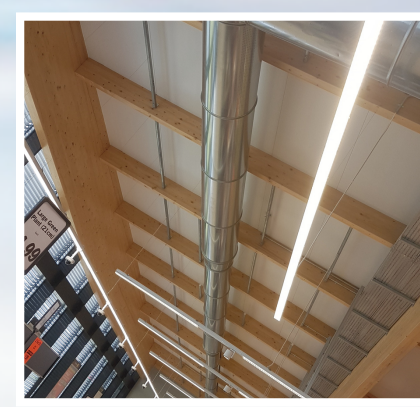
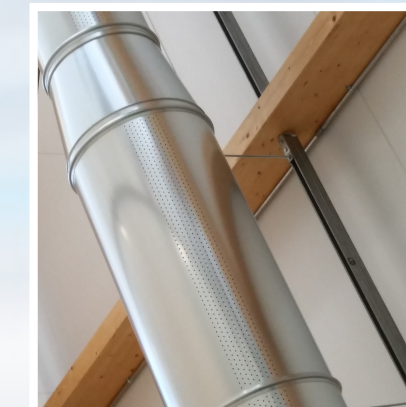
From an aesthetic point of view, the air movement created by the perforations in the ducting prevents the windows of the stores steaming up. The ducting itself has visual appeal and can even be powder-coated to any colour.

#### Cost

The ducting is fabricated off-site and its ease of installation helps to get stores up and running within the desired timescale. Furthermore, once installed, no time-consuming system balancing is required. Perforated ducting is also energy-saving, making it even more cost-effective.

#### Comfort

Finally, air diffusion is achieved by a high induction process. The result is that air passing through the holes along the length of the duct mixes optimally with the air already present in the room, giving a higher level of comfort. In addition, the calibration and positioning of the holes, together with the velocity control, allows for a very low noise output, suitable for a retail outlet.



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