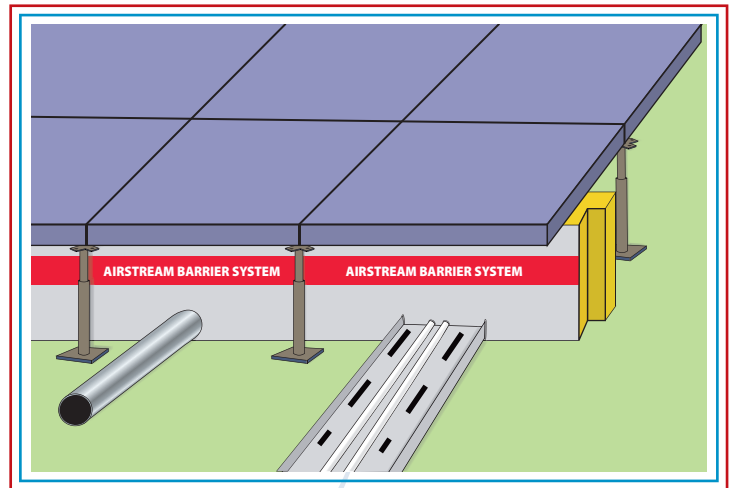




## AIRSTREAM BARRIER SYSTEM

- Fully tested in accordance with BSEN 13829
- Reduces energy cost
- Reduces CO<sub>2</sub> emissions
- Fire safe
- No fibre migration when installed
- Effective smoke & vapour barrier
- Suitable for service penetrations
- Can be used in controlling direction of air flow
- Insulation R value of 1.47
- Manufactured in Ireland
- Satisfies the air leakage criteria specified by Irelands leading M&E consultants



A system specifically designed, developed and tested for ensuring the airtightness of horizontal and vertical wall and floor voids used as ventilation supply air plenums.

Specially selected materials mean that there are no loose fibres present and therefore no fibre contamination of the ventilation air.

Fully tested in accordance with BSEN 13829 giving leakage rates of less than 0.15 l/s/m<sup>2</sup> @50 Pa pressure difference.

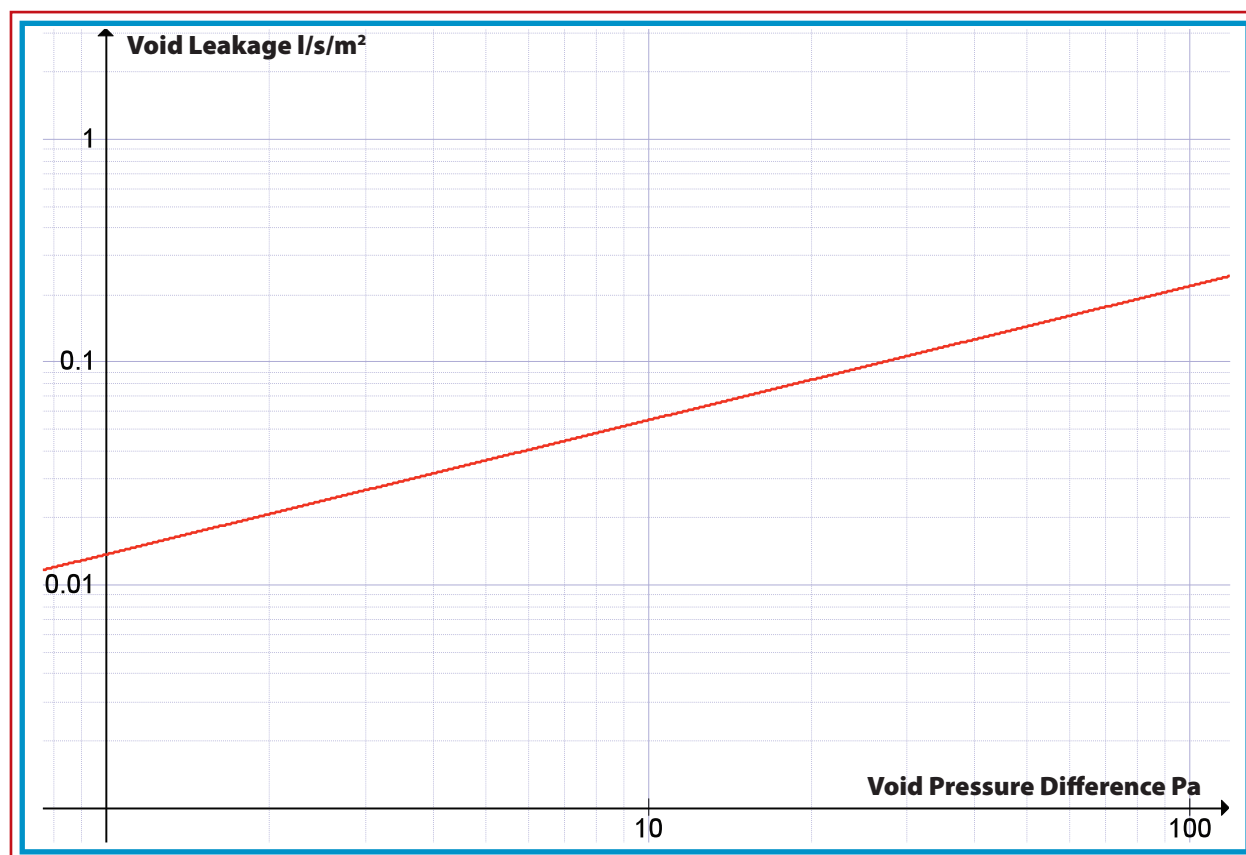
Standard detailing for all services penetrations ensures high levels of airtightness performance even in today's highly serviced buildings.

high levels of airtightness reduces ventilation air leakage to an absolute minimum greatly improving ventilation effectiveness and efficiency.

The system developed and manufactured in Ireland uses materials that are firesafe while also providing an effective smoke and vapour barrier.

Removes the headache of multiple re-tests and remedial works necessary to achieve the specified leakage rates associated with 'ad hoc' barrier systems.

## Airtightness Test Data



### Leakage rate in I/s/m² of floor area versus void/room pressure difference

A system specifically designed, developed and the airtightness performance of the airstream barrier system was tested in accordance with BSEN 13829.

All instruments used for the test were calibrated to national traceable standards by UKAS/INAB accredited calibration laboratories.

The floor area bounded by the barrier was 497 m² and had services penetrations installed at seven different locations.

The leakage rate achieved was less than 0.15 I/s/m² @50 Pa pressure difference. The length of void barrier was 107 m, giving a leakage rate of less than 0.7 I/s per metre length.

The leakage performance of the system for other floor areas can be calculated as follows;  
For a floor with an area of 250 m² and a perimeter barrier length of 63m, this would give a leakage rate

of  $(63 \times 0.7)/250 = 0.17$  I/s/m² @50 Pa pressure difference.

For a floor area of 1000 m² and a perimeter barrier length of 127m, this would give a leakage rate of  $(127 \times 0.7)/1000 = 0.09$  I/s/m² @50 Pa pressure difference.

A full test report is available on request.

Company: Air Seal Solution

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