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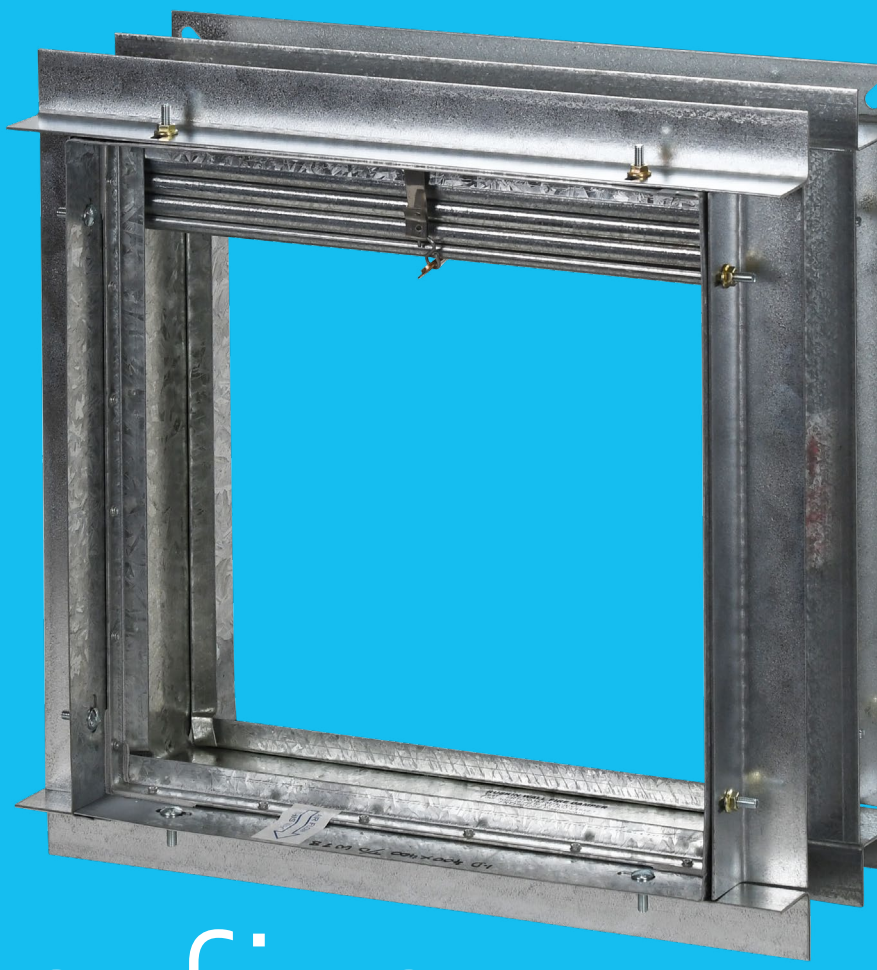

RUSKIN

Curtain fire damper Model IB

Interlocking blade action

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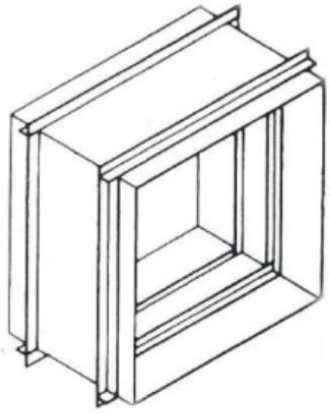
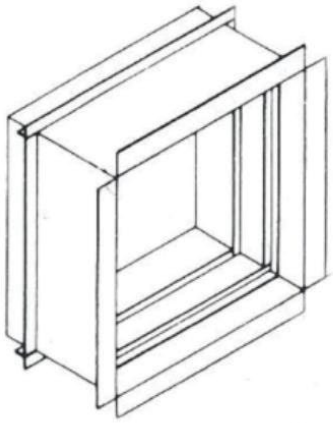
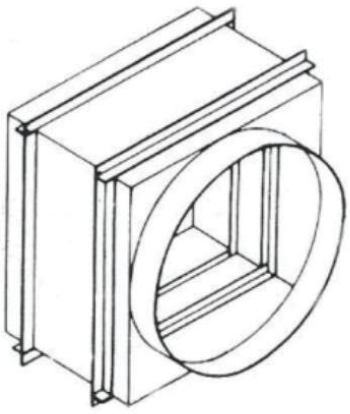
PRODUCT DATA SHEET







RUSKIN CURTAIN FIRE DAMPER MODEL IB

Interlocking Blade Action

At Idealair Group, we specialise in delivering trusted brands to residential, trade and project based customers. We are committed to providing reliable and effective fire protection solutions that meet the rigorous standards of the Australian building industry.

Our Ruskin Curtain Fire Dampers are designed to automatically close and seal openings during a fire, preventing the spread of smoke and flames. They are constructed using premium materials and advanced manufacturing techniques to ensure optimal performance and durability.

Key Features:

- Rapid Closure: Our dampers react quickly to fire detection signals, providing timely protection.
- Reliable Operation: Our products are rigorously tested to ensure consistent and reliable performance in various fire scenarios.
- Customisable Designs: We offer a wide range of options to meet your specific needs, including different sizes, materials, and operating mechanisms.
- Compliance: Our curtain fire dampers comply with all relevant Australian building codes and standards.

idealair group reserves the right to make changes to product without prior notice.

Compliance/Performance/Approvals

To be effective, it is imperative that any fire safety device be of the properly tested and approved type. Installation of an untested fire damper product may not necessarily maintain the fire integrity of the wall or slab penetration it is tasked with protecting.

Our Ruskin Curtain Fire Dampers are assessed against the latest Australian standards and achieve compliance regarding both integrity and leakage levels. The most recent full fire tests were undertaken at Warringtonfire in Victoria, Australia in accordance with AS 1530.4:2014 and meet the NCC 2022 guidelines.

The Ruskin Curtain Fire Dampers have been awarded a -/240/- FRL for masonry installations and are suitable for a variety of installation applications, even those requiring a lower protection rating.

Test details and reports for other approved wall construction and installation methods such as Plasterboard, Speedpanel and Shaftliner systems are available on request.

Construction

The components of the standard Ruskin Fire Damper are fabricated from galvanised steel. The damper casing is roll formed to give two continuous internal flanges, spaced apart to allow the damper blades to travel freely. These blades are constructed from 1mm steel, roll formed on both edges to form a continuous interlocking hinge.

The damper blades are held in the open position by a stainless steel link strap incorporating a fusible link, releasing at 74˚C. The blade of horizontally mounted dampers are closed by constant force, coil band springs. The complete damper casing assembly is then placed into a mounting frame and riveted in position. The mounting frame is constructed from sheet steel and fitted with two sets of flanges to facilitate mounting of the frame into the wall or slab. These flanges are held with coach bolts. If required duct adaptors, or spigots, are fitted under the mounting flanges.

A Ruskin Fire Damper is identified by an attached label giving, model, type, rating, release temperature and approval details to the relevant Australian standards.

Applications

Our products are widely used in a variety of commercial and industrial setting, including;

- Shopping centres
- Office buildings
- Hotels
- Hospitals
- Schools
- Factories & warehouses

In addition to these standard applications, we can provide customised solutions to meet your specific needs.

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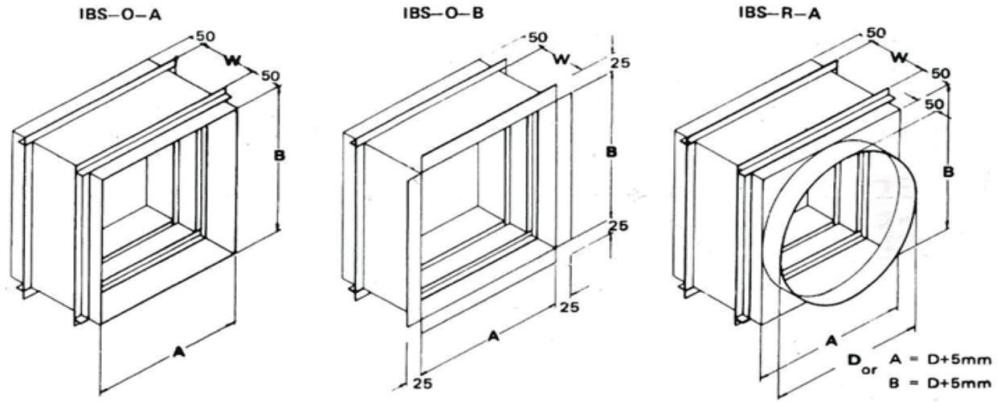
Design Options

The Ruskin Curtain Fire Dampers are manufactured for either a horizontal or vertical airflow direction. There are governing dimensions for each individual module, but we hold approvals for oversized, multi module curtain fire damper designs.

Commonly requested configurations are D/D or D/G.

A high velocity design with blades out of the air stream is also available.



Accessories

For ease of integration in commercial HVAC installations, a TDF flange or frame to connect to rigid ductwork is preferred. This connection type is available on request.

For site-ready installations that meet the packing requirements of AS1682.1, We can supply Curtain Fire Dampers with Baron FireBlock, (aluminium encased glasswool wrap), already fitted.

Certain applications that required high temperature fusible links or spigots mount to round flexible ductwork, can be supplied on request.

Typical Installation

To prevent the spread of fire and smoke, correct installation of a fire damper is essential.

The Ruskin Fire Dampers should be installed in the following manner as outlined in the AS 1682.2:2015

1. The fire damper casing should completely penetrate the wall or slab into which it is been installed.

2. The damper mounting frame should be retained either, on both sides by means of flanges butted against the face of the wall or slab and fixed to the mounting frame or on one side by one flange only, fixed to the wall and damper frame. Both means should allow the damper body to expand without distortion to the blades.

3. The penetration for the fire damper must have a clearance on all sides equal to half the width of the flange used to retain the damper frame; this clearance is to be filled with an approved, non-combustible compressible material (having a fusion temperature greater than 980 degree celsius) to the full thickness of the wall or slab involved.

4. The method of attaching the ductwork to a fire damper must ensure that the damper remains functional if the ductwork is damaged in any way and must allow the ductwork to fall away.

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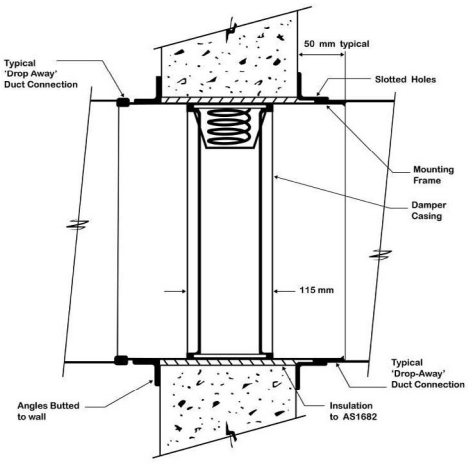
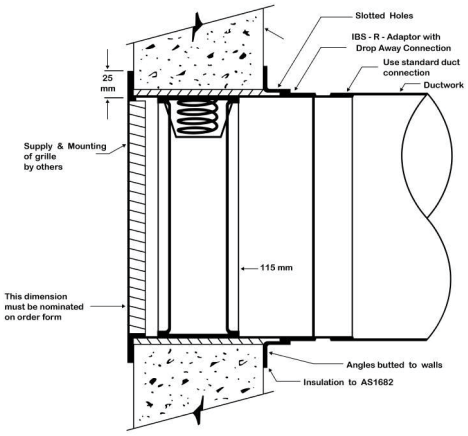
Fire Damper Installation Details – Wall Mounted

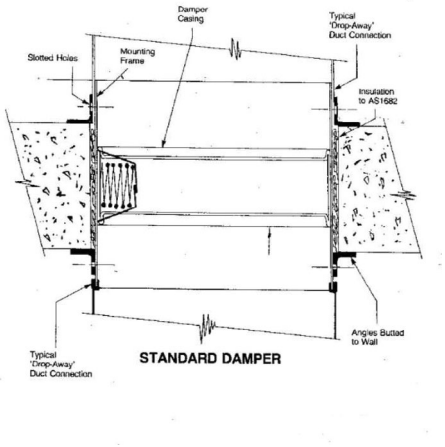


Wall D/D

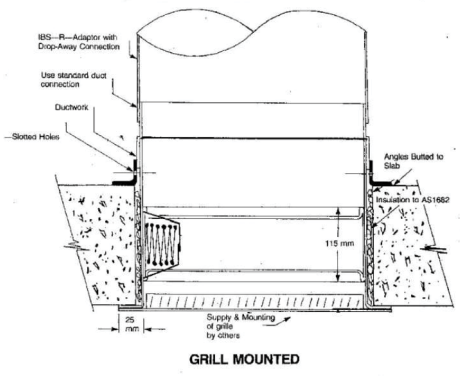


Wall D/G

Fire Damper Installation Details – Slab Mounted



Slab D/D



Slab D/G

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RUSKIN CURTAIN FIRE DAMPER

Order Details

Example – To order a Curtain Fire Damper for wall mounting 500mm wide x 300mm high, 200mm wall thickness with unflanged ends.

CODE = CFD-W-500x300-200-D/D

Note: Contact your sales branch or sales representative if your desired product cannot be ordered by using the above ordering criteria.

CFD-__-____X____-____-____-____

SPECIAL REQUIREMENTS
Please advise of any special requirements such as FireBlock Insulation, High Temp Fusible Links, Spigot Mounts or High Velocity Design with Blades out of Airstream.

CONNECTION TYPE
D/D = Duct to Duct – Unflanged Ends
D/TDF = Duct to Duct – Unflanged on "D" End, TDF Flange on Other End
TDF/D = Duct to Duct – Unflanged on "D" End, TDF Flange on Other End
D/G = Duct to Grille – Unflanged on Duct Connection
TDF/G = Duct to Grille – TDF Flange on Duct Connection
G/D = Grille to Duct – Unflanged on Duct Connection
G/TDF = Grille to Duct – TDF Flange on Duct Connection
Note: Specified in direction of airflow

SLAB/WALL THICKNESS
Stated in millimetres

CFD HEIGHT
Stated in millimetres

CFD LENGTH
Stated in millimetres

MODEL
CFD-S = Slab Fire Dampers
CFD-W = Wall Fire Dampers

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