

GRAVITY FLAP DAMPERS

Information & Spec Sheet



DESIGN

Gravity Dampers/Non-return Damper are design to open on air pressure and fall closed on loss of pressure. They are a more economic version of Motorised Dampers and are used to reduce circulation of airflow between fans and weather out on acoustic Containers Sets.

The robust Frames of 2mm means they are suitable for heavy Duty assemblies as well as lighter HVAC installations. Our Damper designs have been tried and tested for over 35 years.

Also Known as -

- Non-Return Damper
- Pressure Relief Damper
- Barometric Damper
- One Way Damper.



All Engineered Air Treatment Damper designs have been tried and tested for over 35 years.

FEATURES

- Flexible Flange Arrangements
- Economical variety of the Motorised Smoke/- Fire Damper
- Dampers in Dry environment have very little Maintenance requirements
- 2 Year warranty from date of despatch
- Excellent Customer Service from Engineers that have manufactured the dampers they sell. Our Sales Staff have over 30 years' experience, we could if they wanted to build your damper
- Standard Suitable to 5 m/s
- Numerous Options.

All materials used are class 'A' Fully traceable as part of ISO 9001



STANDARD LAYOUT

MATERIALS	Pre-Galvanised M.S. to BS EN 10346 2015 DX51D
CASING	2mm Fully Welded and Cleaned for Smoother finish Coated in silver enamel
BLADES	0.8mm
SPINDLES	1/4" Diameter solid stainless steel spindles
HARDWARE	BZP if required
BUSHES	Nylon Bushes
INTEGRITY	When closed the damper blades overlap allow water to fall to the floor, they do have a 2mm gap at the sides and on the top to allow blades to open freely.
FINISH	Coated in Silver enamel QD8 (C3 Class top coat) Self Colour, Pre-Galvanised M.S. All Welds Dressed and Cleaned.

OPTIONS FOR MATERIALS

MATERIALS	Zintec, Aluminium, marine grade Aluminium, 304, 316 Stainless Steel
CASING	2mm, 3mm to 6mm
BLADES	0.7 to 1.5mm 'Z' and interlinked
SPINDLES	304 or 316 stainless steel
HARDWARE	A2 and A4
BUSHES	Nylon Bushes, phosphor Bronze, SFL Bearings, St/st Teflon lined
MESH	1" Sq, 3mm and we can fit security bars

Options For Heavy Duty - Dampers in the Field Operating up to 14 M/S.
Please contact our Sales Team to discuss.

ADDITIONAL DAMPER INFORMATION

Engineered Air Treatment Ltd. Pride themselves on solving Damper issues and due to the many options available we would recommend contacting our sales team who would also assist where possible.



We have experience of supplying dampers from **-20°C to +100°C**



Approx **18kg's per M²**. We can supply lifting eyes if required



Please see graph overleaf



See Base Dimensions for Fire Dampers

OPTIONAL EXTRAS

- Upgraded Parts for -40°C to 100°C
- External Micro switches
- Viewing windows
- Lifting Eyes.
- Mesh Bird Guard and Insect Mesh
- External visual indicators
- Powdercoated Finish
- Flanges can be drilled to Suit and be 25mm to 100mm
- Fan Plenum boxes can also be supplied to the rear of the Dampers
- Weighted balance to allow pressure build up a Counter Balance
- Counter Balanced Blades for Vertical Up & Down Airflow
- Qualified to Construction standards with Welder certs, procedures and tests available
- Interlinked Blade
- Mixture of Galvanised Casing and Aluminum Stucco Blades

PRESSURE DROP CHART

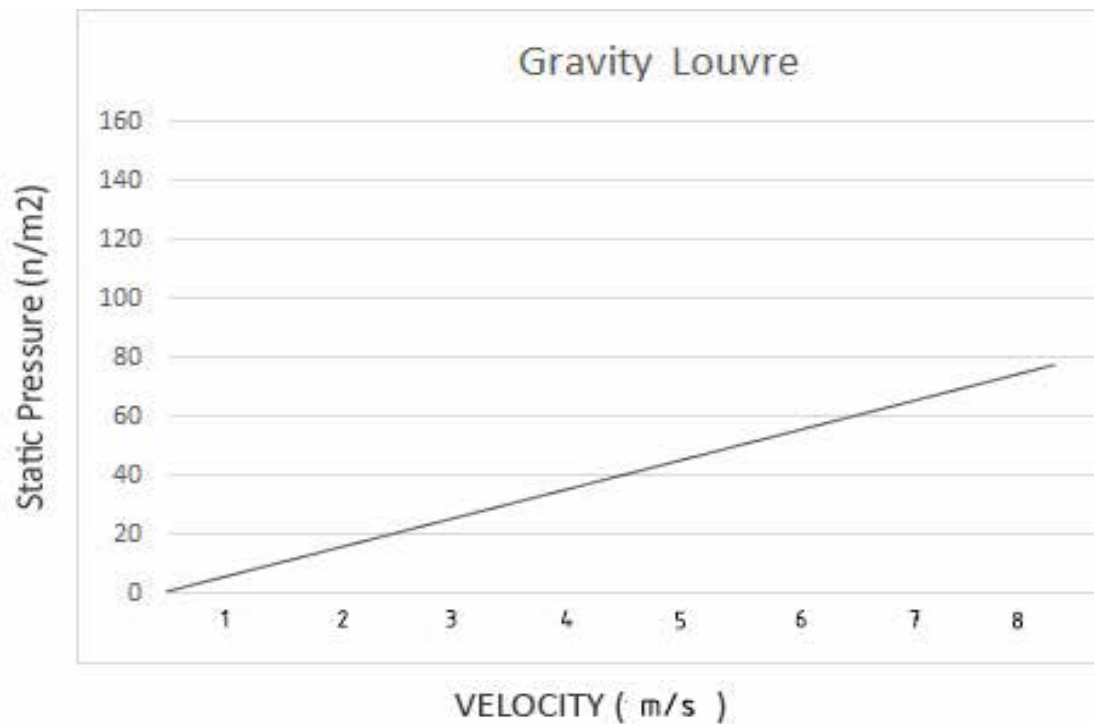


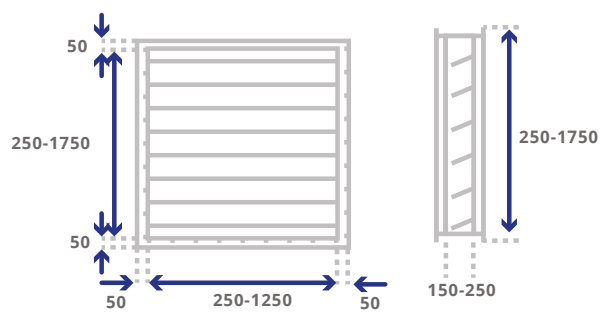
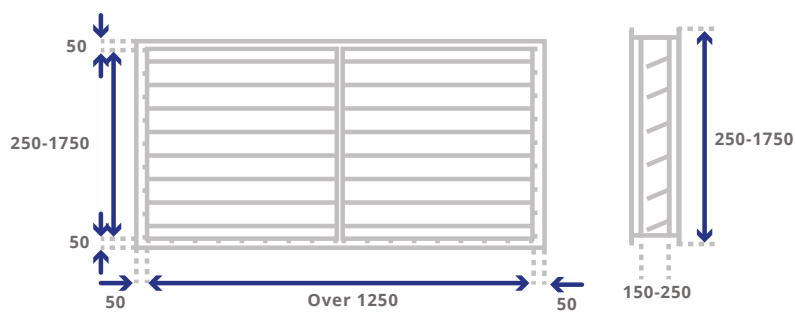
Chart based on Standard Blades and at Air at 15°C

The improvement for Aluminium Blades, Will allow more air to pass through as its lighter weight, It has 35% increase to the improvement of the pressure drop.

OPTIONAL EXTRAS



EXAMPLE OF LAYOUTS





Engineered Air Treatment are proud of our quality record which allows us to have complete confidence in the products we offer. We adhere to our ISO9001 accreditation and install these values into our valuable employees. This confidence allows us to offer a 2 year warranty with all our products.

We also have complete traceability and files over 20 years old to look back on. We are a can do company.

CE Marking for Standard Dampers

The CE marking shall be the only marking which attests the conformity of the product with the applicable requirements of the relevant Community harmonisation legislation providing for its affixing”

There is also currently no relevant Community Harmonisation Legislation for a standard damper to adhere to and so CE marking to an official European standard is not possible.

CE Marking is required if dampers are Classed as fire rated safety products or according the building regulation 2016 a supporting the structure of the building, that is unless it comes into the Bespoke construction Section of the legislation and then due care and diligence needs to be illustrated.

This is our own interpretation of the current legislation and would react accordingly if required by law.

Engineered Air Treatment Ltd are a ISO9001: 2015 certified company, and can offer full material certification and traceability. We can also issue Certificate of Conformity, stating that we have supplied as ordered. We also supply EC Declaration of Incorporation with our products.