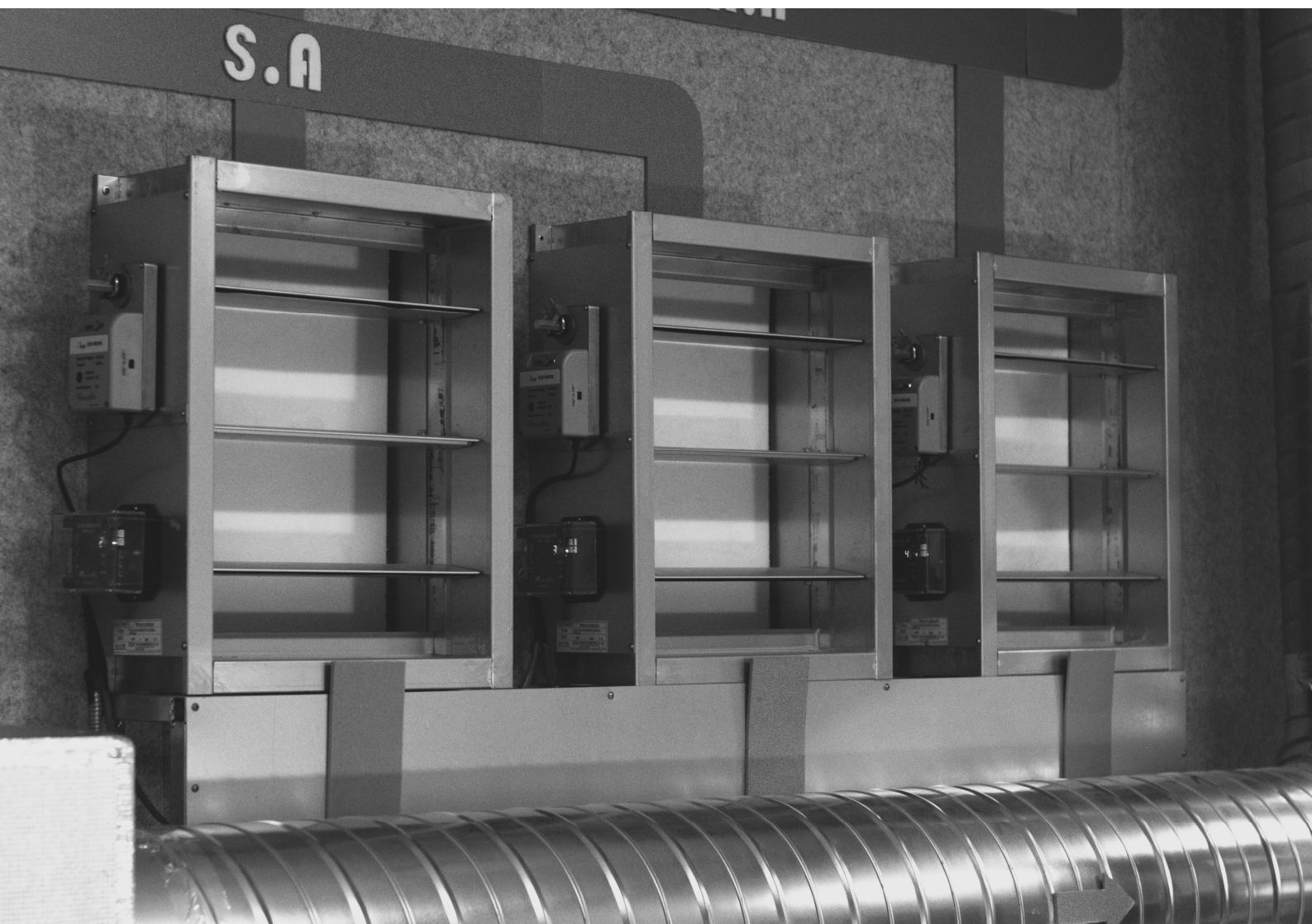




Air Tight Damper

TL - ATD - AL

www.tlair.co.kr



TL-ATD-AL Low Leakage Damper

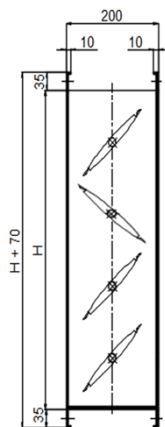
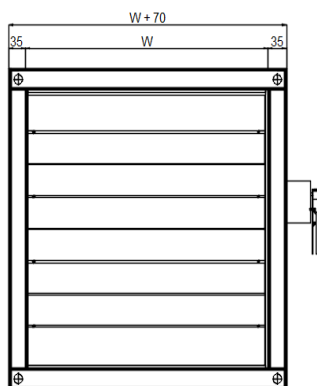
Damper



Damper Blade



Blade Detail



Application

Taelim Air Tight Damper Aluminum blade (TL-ATD-AL) is for general use of commercial and industrial systems, functions effectively as a Smoke damper and Volume damper.

STANDARD CONSTRUCTION

- **FRAME** : 1.6 thickness galvanized C-shaped steel channel
- **BLADES** : 160mm wide 6063 T5 Heavy gauge Extruded Aluminum airfoil shape.
- **LINKAGE** : Concealed in Frame.
- **AXLES** : 12.7mm Plated Steel Hex.
- **BEARINGS** : Two piece molded synthetic pressed into frame.
- **SEALS** : Blade Edge – Rubber Gasket
Jamb – Stainless Steel Spring Gasket
- **CONTROL SHAFT** : Removable 12.7mm diameter, extends 200mm beyond frame.
- **FINISH** : Mill
- **MINIMUM SIZE** : 150mm wide x 169mm high
- **MAXIMUM SIZE** : 2,997mm wide x 3,000mm high

FEATURES

- **LINKAGE OUT OF AIRSTREAM**
Concealed in frame for low maintenance and reduced air turbulence.
- **HEXAGONAL AXLES**
Insure positive locking connection between blades and axles.
- **BLADE EDGE SEALS**
Unique double edge design with inflatable pocket enables higher pressure on either side of damper to assist in blade-to-blade seal off. Seals are locked in extruded blade slots yet are easily field replaceable.

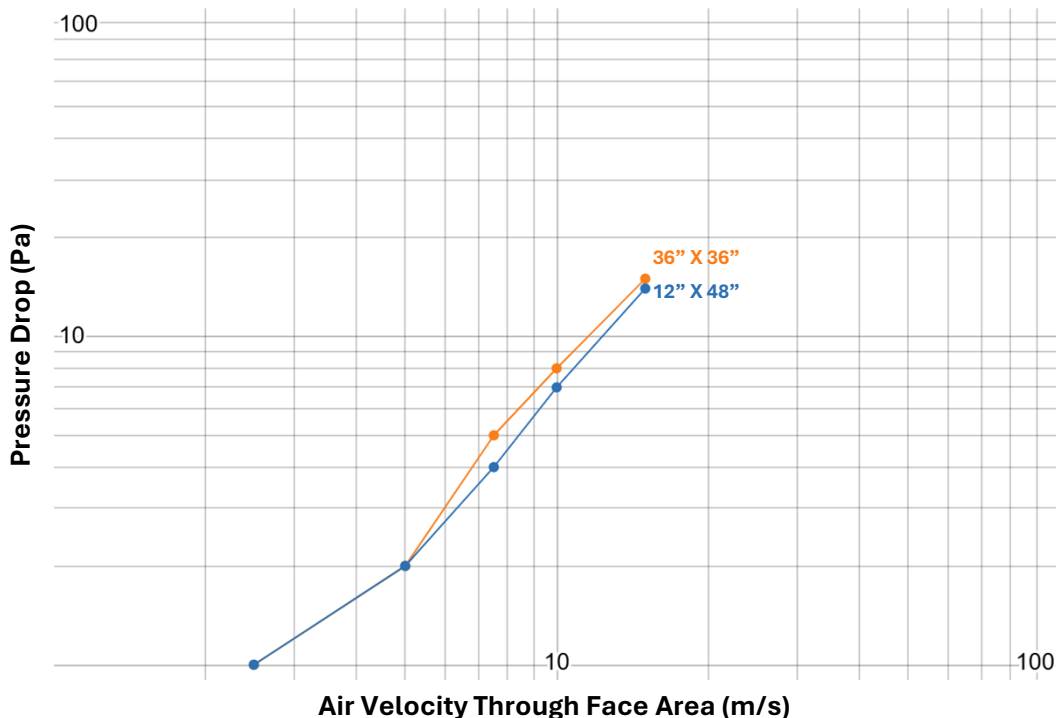
Pressure Drop



Taelim Air Engineering Co., Ltd. certifies that the TL-ATD-AL shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Program seal applies to Air Leakage and Air Performance ratings.

Test Information

- Tested for air performance in accordance with ANSI/AMCA Standard 500-D, Figure 5.3
- Tested size: 36" X 36" (914mm X 914mm) , 12" X 48" (305mm X 1212mm)



* Ratings Selected: Worse performing mode of the two airflow directions.

Leakage Performance



Taelim Air Engineering Co., Ltd. certifies that the TL-ATD-AL shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Program seal applies to Air Leakage and Air Performance ratings.

Test Information

- Tested for air leakage in accordance with ANSI/AMCA Standard 500-D, Figure 5.4 Alternate
- Air leakage is based on operation between 0 °C - 49 °C (32 °F - 120 °F).
- Data are based on a torque of 135 N·m/m² applied to close and seat the damper during the test.
- Closure Method: Applied Torque
- Tested size: 12" X 48" (305mm X 1212mm) , 118" X 36" (2997mm X 914mm)

Leakage Class

Damper Size (inch)	Leakage Class			
	0.25 kPa	1.0kPa	1.5kPa	2.0kPa
12 X 48	1A	1	1	1
118 X 36	1	1	1	1

<TL-ATD-AL Leakage Class>

SI	Maximum Allowable Leakage, L/s/m ²		
Class	At 0.25 kPa	At 1.0 kPa	At x kPa
1A	15.2	N/A	N/A
1	20	40	$2\sqrt{x} \times 20$
2	51	102	$2\sqrt{x} \times 51$
3	203	406	$2\sqrt{x} \times 203$

<Allowable Air Leakage to Achieve Classification>

* Ratings Selected: Maximum leakage value of the two airflow directions.