



Air Tight Damper

TL - ATD - STL

www.tlair.co.kr

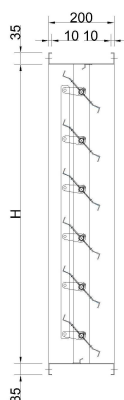
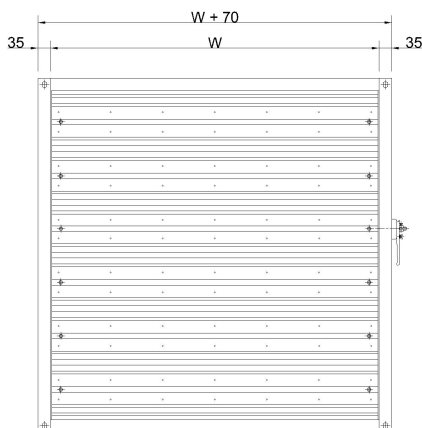


TL-ATD-STL Low Leakage Damper

Damper



SPOT WELDING or CAULKING Spring Gasket



Application

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

STANDARD CONSTRUCTION

- **FRAME** : 1.6 thickness galvanized c-shaped steel channel
- **BLADES** : Maximum 200mm wide V-shaped 1.6 thickness galvanized steel
- **LINKAGE** : Concealed in Frame.
- **AXLES** : 12.7mm Plated Steel Hex.
- **BEARINGS** : Brass bearing of 12.7Ø to ensure smooth operation without being affected by heat and corrosion
- **SEALS** : Blade Edge – Stainless Steel Spring 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** : 2997mm wide x 3000mm 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.
- **V – Shaped BLADE with EDGE SEALS**
Unique V-shaped blades interlock to form a more rigid structure, while the spring gasket fills the gap to provide a tighter seal..

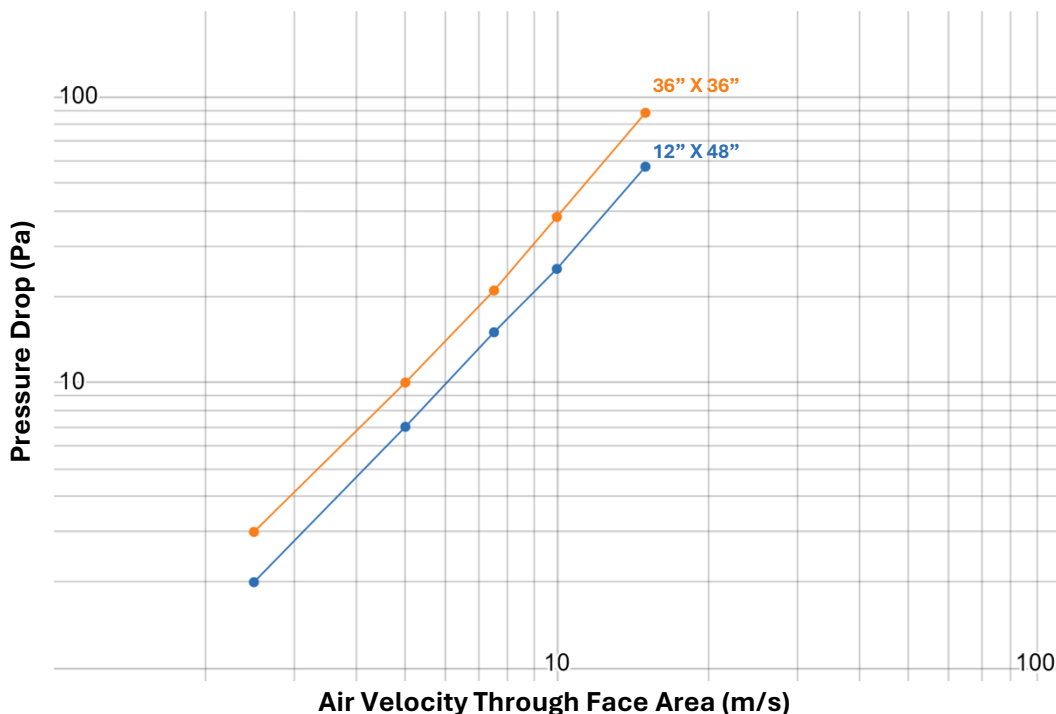
Pressure Drop



Taelim Air Engineering Co., Ltd. certifies that the TL-ATD-STL 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



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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	2	2	2

<TL-ATD-STL Leakage Class>

SI Class	Maximum Allowable Leakage, L/s/m ²		
	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.