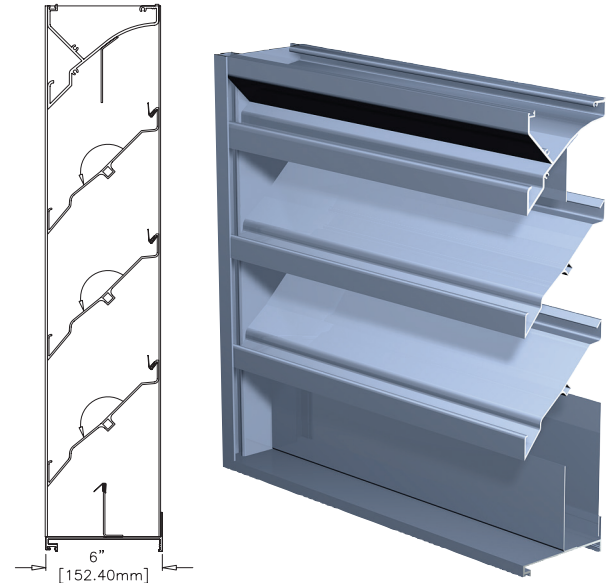




### EXTRUDED ALUMINUM DRAINABLE ADJUSTABLE BLADE LOUVER

<b>Visible Mullion Louver Type</b> .....	T6786
<b>Material</b> .....	Extruded Aluminum (Alloy 6063-T5)
<b>Adjustable Blade</b> .....	0.081 in. (2.06 mm)
<b>Frame</b> .....	0.125 in. (3 mm)
<b>Louver Depth</b> .....	6 in. (152.4 mm)
<b>Blade Angle</b> .....	45°
<b>Free Area – 4 ft. x 4 ft. Unit</b> .....	7.34 sq. ft. (0.689 sq m)
<b>Percent Free Area</b> .....	46.3%
<b>Free Area Velocity at Beginning Point of Water Penetration – 0.01 oz H<sub>2</sub>O/sq. ft. Free Area</b> .....	1,007 fpm (5.115 m/s)
<b>Air Volume Flow Rate at Beginning Point of Water Penetration – 4 ft. x 4 ft. Unit</b> .....	7,391 cfm (3.570 m <sup>3</sup> /s)
<b>Pressure Drop at Beginning Point of Water Penetration</b> .....	0.12 in. H <sub>2</sub> O (0.030 kPa)



### RECOMMENDED SPECIFICATION

#### GENERAL

Furnish and install where indicated on plans or described in schedules adjustable blade Louver Type T6786 as designed and manufactured by The Airolite Company LLC, Schofield, Wisconsin. Louvers shall be furnished with bird screen, insect screen, electric or pneumatic actuators, supports and finishes as specified and as required for a complete installation.

#### SUBMITTALS

Manufacturer shall submit shop drawings incorporating key plans, elevations, sections and details showing profiles, angles and spacing of louver blades and frames; unit dimensions related to wall openings and construction; and, anchorage details and locations. Provide samples of manufacturer's finish and color charts showing the full range of colors available. For each type of product specified, submit free area, air performance and water penetration ratings determined in accordance with AMCA Standard 500-L 99 and licensed under the AMCA Certified Ratings Program.

#### PRODUCTS

Louvers shall incorporate adjustable blades in a single frame. Louvers shall be 6-inches (152.4 mm) deep and assembled entirely from extruded aluminum components. Adjustable blades shall be 0.081-inch (2 mm) extruded aluminum, alloy 6063-T5. Frames shall be 0.081-inch (2 mm) extruded aluminum, alloy 6063-T5. The adjustable blades, louver head and each jamb frame shall incorporate integral gutters to minimize water penetration. When open, adjustable blades shall be positioned at 45-degrees and spaced 6.5-inches (165.1 mm) on center. Adjustable blades may be fitted with dual-durometer vinyl blade-edge gaskets and stainless steel jamb seals to resist air leakage and water penetration when the adjustable blades are closed. The blade linkage assembly shall be fully-enclosed within the louver jamb frame and isolated from the active airstream.

#### STRUCTURAL DESIGN CRITERIA

Louvers and any supports required shall be designed and furnished by the manufacturer to withstand a wind force of not less than 25 pounds per square foot. Louvers larger than 60-inches (152 cm) wide x 96-inches (244 cm) high will be fabricated and installed in multiple sections. Louver blades, frames, mullions and anchorages shall be demonstrated to withstand the specified wind design load.

#### PERFORMANCE RATINGS

FREE AREA:	7.34 Square Feet (0.689 m <sup>2</sup> )
MINIMUM FREE AREA VELOCITY at Beginning Point of Water Penetration:	1,007 fpm (5.115 m/s)
MINIMUM AIR VOLUME FLOW RATE at Beginning Point of Water Penetration:	7,391 cfm (3.570 m <sup>3</sup> /s)
MAXIMUM STATIC PRESSURE at Beginning Point of Water Penetration:	0.12 in. H <sub>2</sub> O (0.030 kPa)

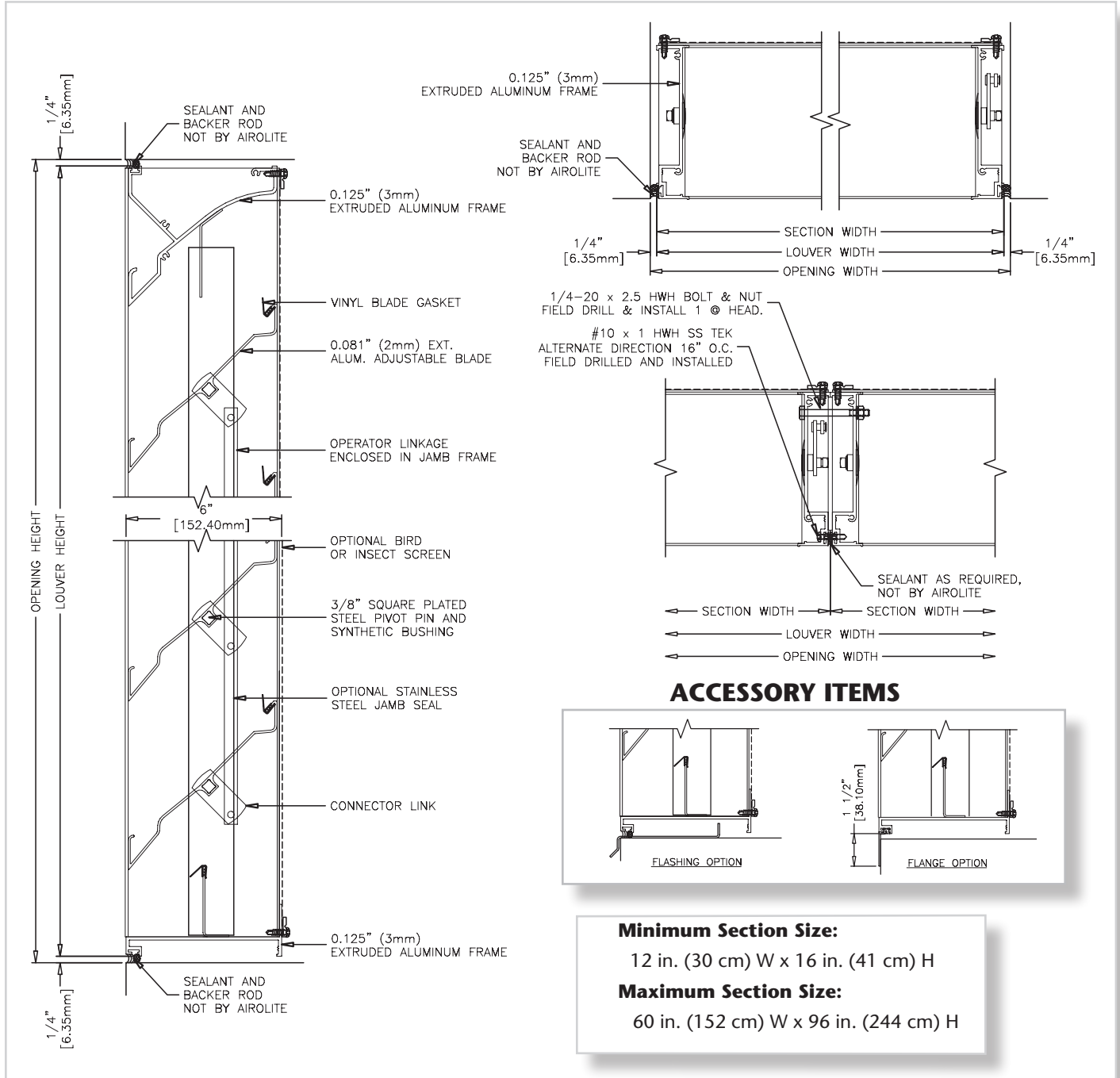
See page 4 for complete finish options

# LOUVER TYPE T6786 PRODUCT DESCRIPTION & DETAILS

**AIROLITE LOUVER TYPE T6786** is a drainable, adjustable blade louver in a 6-inch deep (152.4 mm) frame. When open, the drainable blades provide excellent resistance to water penetration and high volume intake and exhaust ventilation. When closed, the optional dual durometer vinyl blade-edge gaskets and stainless steel jamb seals effectively minimize air leakage and water penetration. The adjustable blades may be controlled with manually operated hand-crank, pull chains, fusible links, electric motor or pneumatic actuators. Louver Type T6786 is an extremely efficient adjustable louver with AMCA Licensed air performance and water penetration ratings that enable designers to select and specify this product with confidence. Please contact your local Airlite representative or the factory for assistance with the layout and design of operator and support systems when required.

## VERTICAL SECTION DETAIL

## PLAN SECTION DETAIL



# LOUVER TYPE T6786 PERFORMANCE RATINGS

## FREE AREA CHART - in square feet

Louver Height Inches	Louver Width in Inches													
	12	15	18	21	24	27	30	33	36	39	42	48	54	60
16	0.32	0.42	0.53	0.63	0.73	0.84	0.94	1.04	1.15	1.25	1.35	1.56	1.77	1.97
21	0.56	0.74	0.92	1.10	1.28	1.46	1.64	1.82	2.00	2.18	2.36	2.72	3.08	3.44
24	0.56	0.74	0.92	1.10	1.28	1.46	1.64	1.82	2.00	2.18	2.36	2.72	3.08	3.44
30	0.79	1.05	1.30	1.56	1.82	2.07	2.33	2.59	2.84	3.10	3.36	3.87	4.39	4.90
36	1.03	1.36	1.69	2.03	2.36	2.69	3.03	3.36	3.69	4.03	4.36	5.03	5.69	6.36
42	1.26	1.67	2.08	2.49	2.90	3.31	3.72	4.13	4.54	4.95	5.36	6.18	7.00	7.82
48	1.50	1.99	2.47	2.96	3.45	3.93	4.42	4.91	5.39	5.88	6.37	<b>7.34</b>	8.31	9.29
54	1.74	2.30	2.86	3.43	3.99	4.55	5.12	5.68	6.24	6.81	7.37	8.50	9.62	10.75
60	1.97	2.61	3.25	3.89	4.53	5.17	5.81	6.45	7.09	7.73	8.37	9.65	10.93	12.21
66	1.97	2.61	3.25	3.89	4.53	5.17	5.81	6.45	7.09	7.73	8.37	9.65	10.93	12.21
72	2.21	2.93	3.64	4.36	5.08	5.79	6.51	7.23	7.94	8.66	9.37	10.81	12.24	13.67
78	2.45	3.24	4.03	4.83	5.62	6.41	7.20	8.00	8.79	9.58	10.38	11.96	13.55	15.14
84	2.68	3.55	4.42	5.29	6.16	7.03	7.90	8.77	9.64	10.51	11.38	13.12	14.86	16.60
90	2.92	3.86	4.81	5.76	6.70	7.65	8.60	9.54	10.49	11.44	12.38	14.28	16.17	18.06
96	3.15	4.18	5.20	6.22	7.25	8.27	9.29	10.32	11.34	12.36	13.39	15.43	17.48	19.52

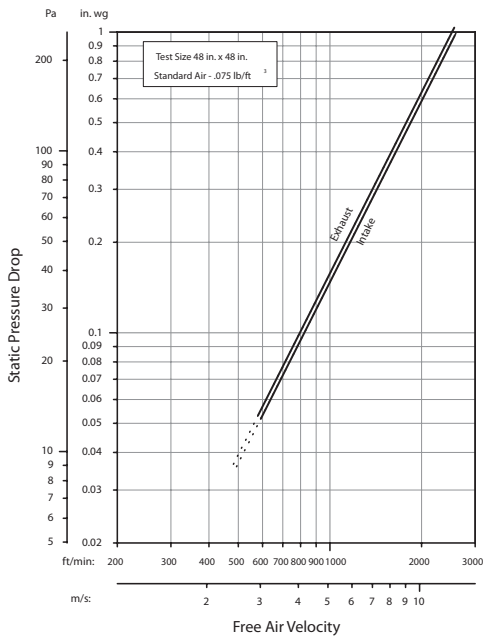
**AMCA**  
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WATER  
PENETRATION  
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ASSOCIATION  
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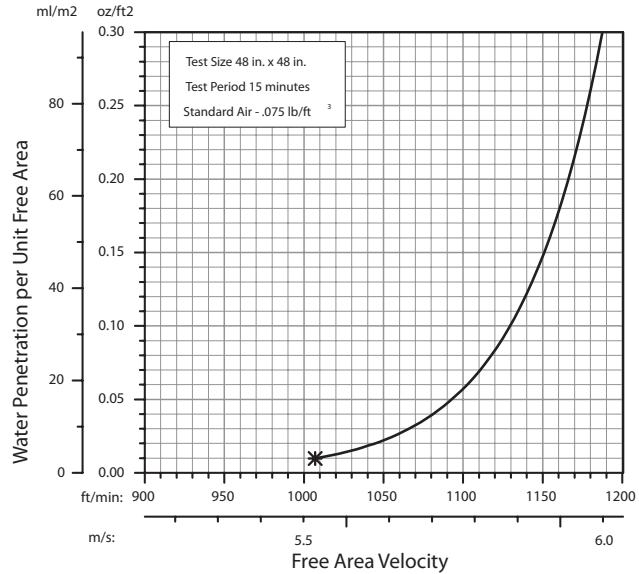
The Airlite Company, LLC certifies that Louver Type T6786 shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies only to Air Performance and Water Penetration ratings.

## AIRFLOW RESISTANCE (Standard Air - .075 lb./ft.<sup>3</sup>)



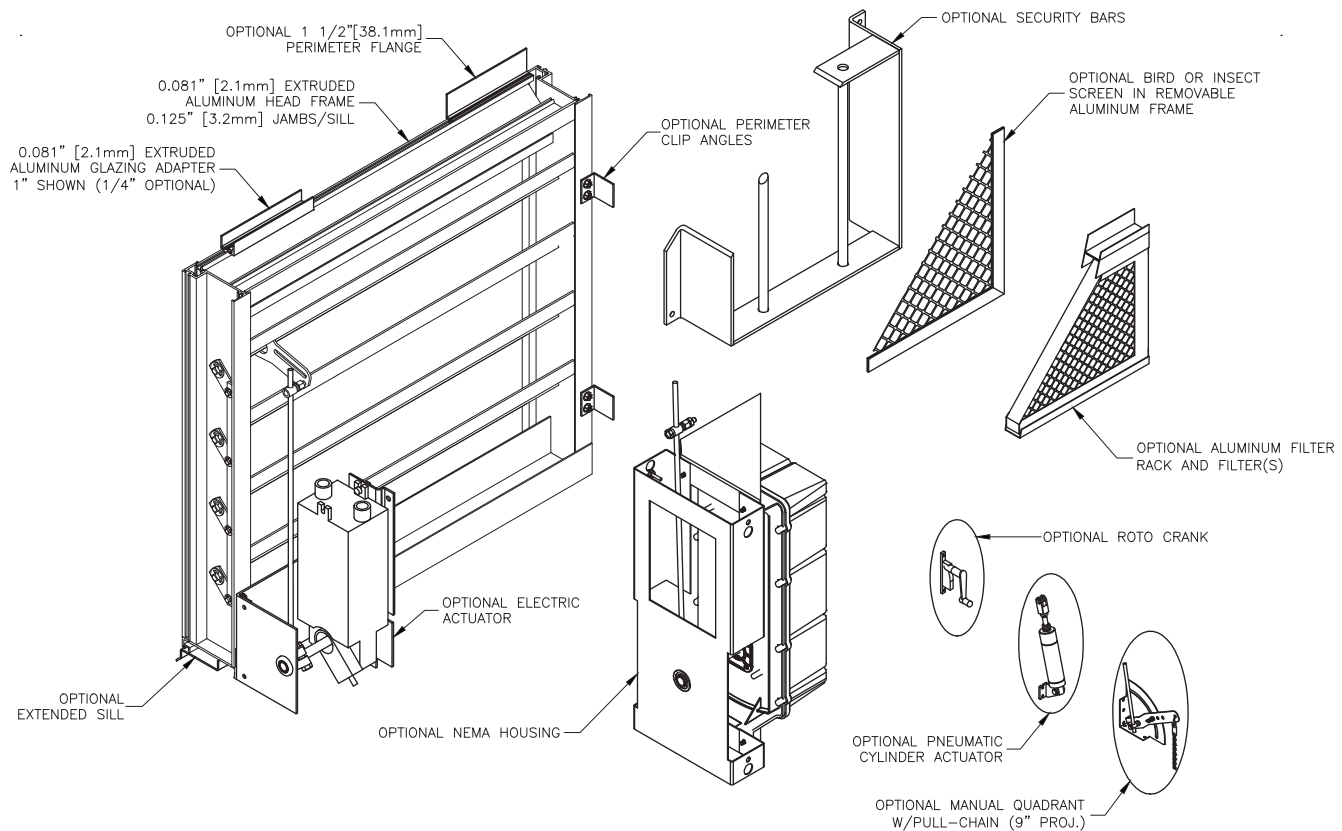
Louver Type T6786 resistance to airflow is shown with louver blades fully open. Resistance (pressure drop) varies depending on louver application (air intake or air exhaust). Free area velocities (shown) are higher than average velocity through the overall louver size (Test Figure 5.5).

## WATER PENETRATION (Standard Air - .075 lb./ft.<sup>3</sup>)



The AMCA Water Penetration Test provides a method for comparing various louver models and designs as to their efficiency in resisting the penetration of rainfall under specific laboratory test conditions. The point of zero water penetration is defined as that velocity where the water penetration curve projects through .01 oz. of water (penetration) per sq. ft. of louver free area. **\*The beginning point of water penetration for Louver Type T6786 is 1007 fpm free area velocity.** These performance ratings do not guarantee a louver to be weatherproof or stormproof and should be used in combination with other factors including good engineering judgement in selecting louvers.

# LOUVER TYPE T6786 METHOD OF INSTALLATION & ACCESSORY OPTIONS



## FINISHES\* (Select one of the following)

**ACRYLIC ENAMEL:** Louvers shall be cleaned, pretreated and Finished with an oven-cured thermosetting acrylic enamel finish that meets or exceeds the performance requirements of AAMA 2603, "Voluntary Specification Performance Requirements and Test Procedures for Pigmented Organic Coatings."

**2-COAT FLUOROPOLYMER:** Louvers shall be cleaned, pretreated and Finished with an inhibitive primer and oven-cured Kynar 500® / Hylar 5000® resin coating with minimum 1.2 mils dry-film coating thickness that meets or exceeds the performance requirements of AAMA 2605, "Voluntary Specification, Performance Requirements and Test Procedures for Superior Performance Organic Coatings on Aluminum Extrusions and Panels."

**3-COAT FLUOROPOLYMER:** Louvers shall be cleaned, pretreated and Finished with an inhibitive primer and oven-cured Kynar 500® / Hylar 5000® resin coating with minimum 2.0 mils dry-film coating thickness that meets or exceeds the performance requirements of AAMA 2605, "Voluntary Specification, Performance Requirements and Test Procedures for Superior Performance Organic Coatings on Aluminum Extrusions and Panels."

**CLEAR ANODIZE:** Louvers shall be Finished with a Class I clear anodized coating (AA-M10C22A41) that complies with the performance requirements of AAMA Specification 611-98, "Voluntary Specification for Anodized Architectural Aluminum."

**COLOR ANODIZE:** Louvers shall be Finished with a Class I electrolytically color anodized coating (AA-M10C22A42/44) that complies with the performance requirements of AAMA Specification 611-98, "Voluntary Specification for Anodized Architectural Aluminum." Color shall be (select one): Champagne, Light Bronze, Medium Bronze, Dark Bronze, Extra Dark Bronze or Black Anodize.

\* Note: Louver finish makes reference to the finish on the louver frames, blades, screens and/or blank-off panels as specified. As standard, all actuator mounting channels and additional corner supports are mill finish. If color to match louver is required, please consult the factory for additional costs.

**AIROLITE®**  
The look that works.™

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