

AWV

Penthouses



IntelligentEnvelopes™

Introduction

AWV is headquartered in Holland, Ohio and is part of the Mestek Architectural Group. In addition to AWV, Mestek's Architectural activities include Linel and a strategic alliance and exclusive license agreement with Colt Group USA. The emphasis for these companies is in providing products and solutions that beautify and improve the performance of buildings through Intelligent Envelopes™.



The purpose of penthouses is to provide for ventilation or exhaust air, while offering defense against vision, water and noise intrusion. In addition, the penthouse designs must give the architect aesthetic flexibility to enhance the building's appearance. AWV's broad line of penthouses address these design objectives.

AWV'S OFFERING

- Aesthetically Pleasing – AWV penthouses are designed with aesthetics in mind.
- Reduced Energy Costs – AWV's penthouses are highly aerodynamically efficient. The low air resistance reduces the fan energy required to introduce the ventilation air into the building.
- Wide Range – AWV penthouses are available in a wide variety of shapes, sizes, materials, finishes and coatings to meet the requirements of any project.
- Durability – AWV can provide certified structural calculations when requested to ensure penthouse structural integrity. All penthouses are constructed of aluminum.

STANDARD FEATURES, OPTIONS AND ACCESSORIES

AWV offers a wide selection of options and accessories to simplify installation and provide the functionality required.

- Shipped completely factory assembled (up to maximum cataloged penthouse throat size).
- Varying blade spacing and angles.
- Aluminum insect/bird screens with mounting either in the interior or on the exterior, with options for galvanized steel and stainless steel.
- Flat or pitched hinged roofs with internal insulation.
- Option for blank-off panels.
- Non-welded or welded construction.

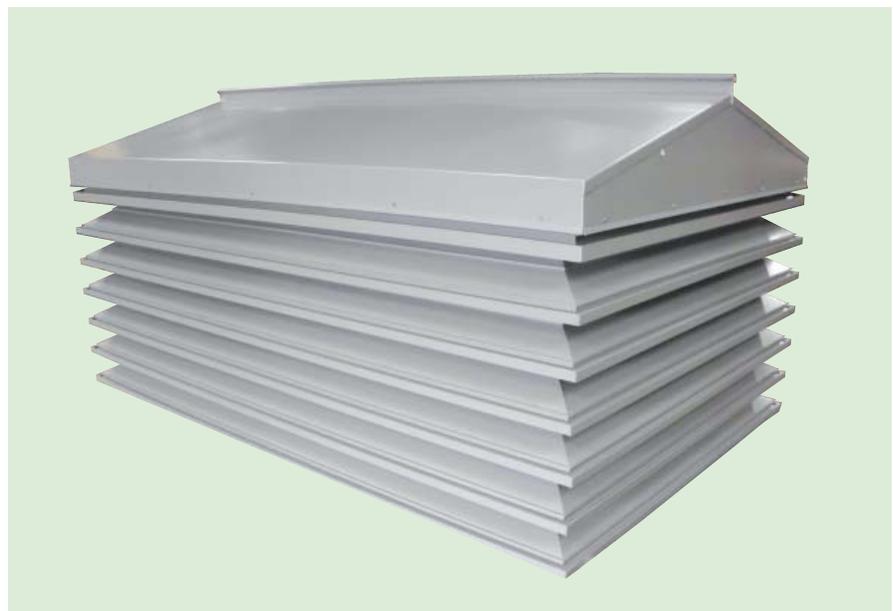
AWV'S TRACK RECORD AND CAPABILITIES

AWV has more than 100 years of unsurpassed experience in the design and supply of architectural products. AWV's portfolio with tens of thousands of successful projects includes some of the largest, most complex penthouses in both new and renovation applications.

AWV is dedicated to innovation and has comprehensive design capabilities. While this brochure provides a general overview of our capabilities, we welcome the opportunity to develop solutions to satisfy your unique requirements.

LEAD TIMES/QUICK DELIVERY

AWV offers competitive and short lead times. In addition, quick ship programs are available on selected models for extra fast delivery.



FIXED DRAINABLE PENTHOUSES

Fixed drainable extruded aluminum penthouses in a variety of frame depths, blade angles and spacing. They are appropriate for both intake and exhaust applications.

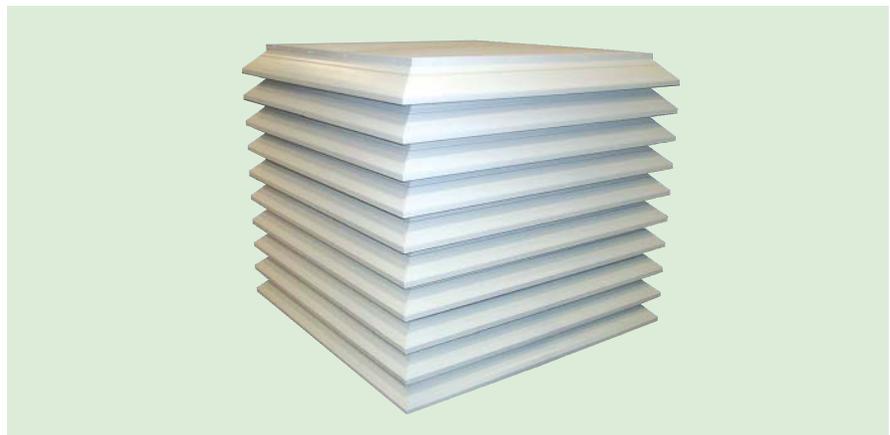


Model	Description	Blade			Mullion E - Exposed H -Hidden	Frame Depth Inches	Material Thickness			Penthouse Throat Size	
		Orientation H - Horiz. V - Vert.	Angle Deg.	Spacing Inches			Frame Inches	Blade Inches	Roof Inches	Min w x l x h Inches	Max w x l x h Inches
PE-21	Boxed Corners Fixed Drainable	H	45.0	5.00	E	4.00	0.081	0.081	0.050	12 x 12 x 12	84 x 84 x 60
PE-23	Boxed Corners Fixed Drainable	H	37.5	3.50	E	4.00	0.081	0.081	0.050	12 x 12 x 12	84 x 84 x 60
PE-31	Boxed Corners Fixed Drainable	H	37.5	4.00	E	6.00	0.081	0.081	0.050	12 x 12 x 12	84 x 84 x 60
PE-32	Boxed Corners Fixed Drainable	H	37.5	4.00	E	6.00	0.081	0.081	0.050	12 x 12 x 12	84 x 84 x 60
PE-33	Boxed Corners Fixed Drainable	H	45.0	7.00	E	6.00	0.081	0.081	0.050	12 x 12 x 12	84 x 84 x 60

Notes: Penthouses with larger throat sizes are available shipped knocked-down.

FIXED NON-DRAINABLE PENTHOUSES

Fixed non-drainable extruded aluminum penthouses are offered in a variety of frame depths, blade angles and spacing. Either boxed or mitered corners are available. They are usually most appropriate for exhaust applications.



Model	Description	Blade			Mullion E - Exposed H -Hidden	Frame Depth Inches	Material Thickness			Penthouse Throat Size	
		Orientation H - Horiz. V - Vert.	Angle Deg.	Spacing Inches			Frame Inches	Blade Inches	Roof Inches	Min w x l x h Inches	Max w x l x h Inches
PE-47B	Boxed Corners Fixed Non-drainable	H	45.0	5.00	E or H	4.00	0.081	0.081	0.050	12 x 12 x 12	84 x 84 x 60
PE-47M	Mitered Corners Fixed Non-drainable	H	45.0	5.00	E or H	4.00	0.081	0.081	0.050	12 x 12 x 12	84 x 84 x 60
PE-63B	Boxed Corners Fixed Non-drainable	H	45.0	7.00	E or H	6.00	0.081	0.081	0.050	12 x 12 x 12	84 x 84 x 60
PE-63M	Mitered Corners Fixed Non-drainable	H	45.0	7.00	E or H	6.00	0.081	0.081	0.050	12 x 12 x 12	84 x 84 x 60

Notes: Penthouses with larger throat sizes are available shipped knocked-down.

STANDARD FINISHES

AWV penthouses can be provided in mill, anodized, baked enamel, PVDF (aka Kynar) and other special finishes. AWV is a licensed applicator for Akzo Nobel, PPG and Valspar to meet AAMA painting (2603, 2604 & 2605) specifications.

Clear anodizing provides a uniform satin finish that resists oxidation. The 204R1 clear provides a 0.4 mil coating, while the 215R1 clear provides a 0.7 mil coating for extra corrosion and abrasion resistance. Color anodizing is also available in light, medium, dark bronze or black in a 0.7 mil coating.

PVDF (aka Kynar) is a baked-on finish made of 70% PVDF resins and durable ceramic pigments that meets AAMA2605 specifications. PVDF is unsurpassed in its resistance to color fading and chalking from the damaging ultraviolet rays of the sun. It is resistant to general air pollution and will not whiten or pit when exposed to the elements.

PVDF finishes are available in a wide range of colors and glosses. Metallic, pearlescent and other more exotic formulations are also available. Refer to AWV's Standard Finishes Color Selection brochure (ASFCS-B-1) for our standard choice of colors. Special color matching can be provided by our in-house computerized paint color formulating system.

CUSTOM FINISHES

While penthouses are typically constructed of extruded aluminum, special appearances can be provided through a dye-sublimation process to turn ordinary materials into a work of art. We transform the aluminum to look identical to wood grain, marble, granite, masonry, carbon fiber and any creative digital design to give your project a unique signature appearance.



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IntelligentEnvelopes™

7301 International Drive, Holland, OH 43528 419.865.5000 P 413.865.1375 F