

ARCHITECTURAL
L·O·U·V·E·R·S

LOUVER PRODUCTS CATALOG

Attractive Ventilation: Architectural Louvers combines functionality with unequaled design capability. Use your ventilation requirements to add a memorable design element to your building.



Special shapes, face trim, and various blade types offer a full range of possibilities. Whether you are trying to ventilate an attic space, bring in fresh air, or add decoration to your building, Architectural Louvers can help.

Available finishes include baked enamel, anodized, and high resin content fluoropolymer paint. Standard colors in each of these finish types is available, or select your own color and we will computer match our louver finish to your needs.

Select from our full range of louver products:

	Blade Type	Performance	Model	Frame Depth	Free Area	Water Pen. Rating ¹
Wall Louvers	Standard J	Standard	E2JS	2.0"	48.7%	5648 CFM
	Standard J	Standard	E4JS	4.0"	50.4%	7157 CFM
	Standard J	High	E4JP	4.0"	58.4%	8970 CFM
	Standard J	High	E6JP	6.0"	57.3%	10298 CFM
	Standard J	High	E6JN	6.0"	69.1%	9011 CFM
	Baffle K	Standard	E2KS	2.0"	48.7%	5648 CFM
	Baffle K	Standard	E4KS	4.0"	50.4%	7157 CFM
	Baffle K	High	E4KP	4.0"	58.4%	7686 CFM
	Baffle K	High	E6KP	6.0"	57.3%	10298 CFM
	Drainable	Standard	E2DS	2.0"	49.4%	7032 CFM
	Drainable	Standard	E4DS	4.0"	56.0%	8333 CFM
	Drainable	High	E4DP	4.0"	59.3%	8826 CFM
	Drainable	High	E6DP	6.0"	57.7%	9655 CFM
	Chevron	Wind/Rain	E2WV	2.0"	53.8%	50 mph 8" rainfall
	Chevron	Wind/Rain	E4WH	4.0"	50.6%	50 mph 8" rainfall
	Drainable	Wind/Rain	E4WS	4.0"	56.0%	29 mph 3" rainfall
Chevron	Wind/Rain	E6WH	6.0"	50.3%	50 mph 8" rainfall	

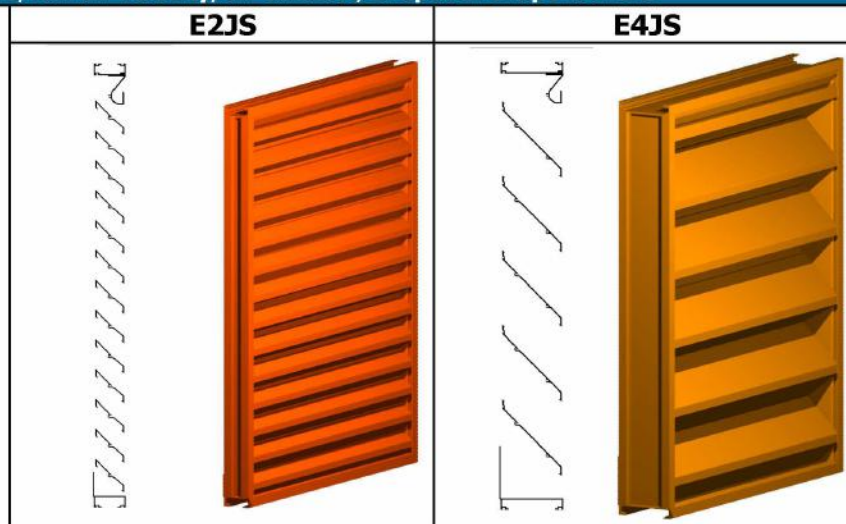
¹ - Water penetration is listed as total CFM capability from testing of a 48" Wide x 48" High sample. The total CFM is the louver free area (in square feet) multiplied by the first point of water penetration. Wind driven rain louvers are listed by wind speed and rainfall rate.

© 2016 Harray, LLC

Standard Blade Louvers

Standard Performance

Standard blade, standard performance series offers a clean appearance at a low cost. Ideal applications include decorative, low air velocity, air exhaust, or special shape louvers.



Frame Depth	2.0"	Frame Depth	4.0"
Blade Spacing	2.0"	Blade Spacing	5.0"
Blade Angle	45°	Blade Angle	45°
Free Area ¹	48.7%	Free Area ¹	50.4%
First Point Water ²	725 fpm	First Point Water ²	888 fpm
Resistance to Air ³	0.07"	Resistance to Air ³	0.15"

Standard Blade Louvers

High Performance

High performance series offers higher free areas at reduced resistance to airflow. Used for higher velocities or where high free areas are required.



Frame Depth	4.0"	Frame Depth	6.0"	Frame Depth	6.0"
Blade Spacing	3.0"	Blade Spacing	4.0"	Blade Spacing	3.0"
Blade Angle	35°	Blade Angle	35°	Blade Angle	25°
Free Area ¹	58.4%	Free Area ¹	57.3%	Free Area ¹	69.1%
First Point Water ²	960	First Point Water ²	1123	First Point Water ²	815
Resistance to Air ³	0.13"	Resistance to Air ³	0.18"	Resistance to Air ³	0.12"

¹ - Free Area is the space between frame and blades divided by the overall wall opening size (based on a size 48" Wide by 48" High)

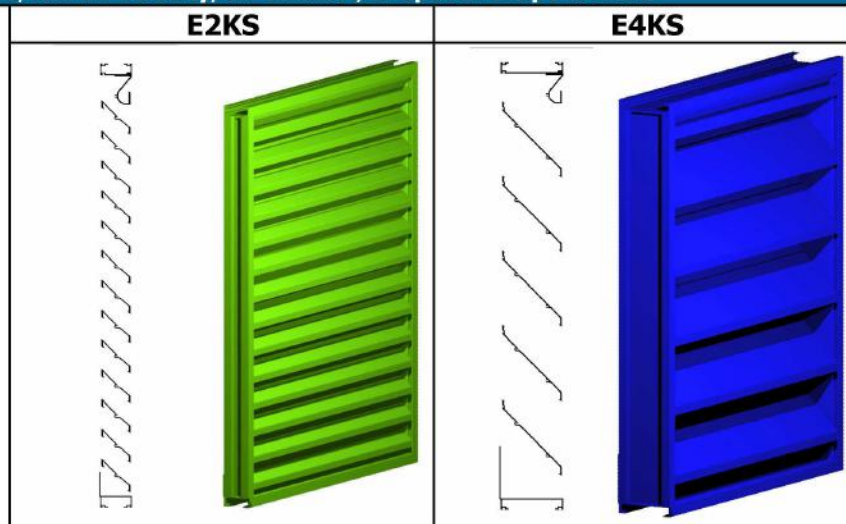
² - First point at which the louver entrains water, based on air intake free area velocities (0.01 oz. of water per square foot)

³ - Pressure drop of airflow across the louver at the first point of water penetration, expressed in inches water gauge

Baffle Blade Louvers

Standard Performance

Baffle blade, standard performance utilizes a baffle to help stop water infiltration. Ideal applications include decorative, low air velocity, air exhaust, or special shape louvers.

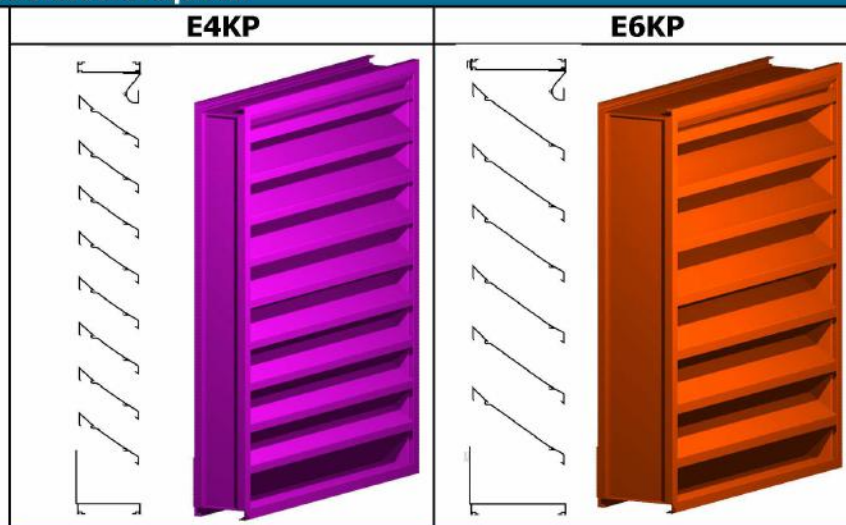


Frame Depth	2.0"	Frame Depth	4.0"
Blade Spacing	2.0"	Blade Spacing	5.0"
Blade Angle	45°	Blade Angle	45°
Free Area ¹	48.7%	Free Area ¹	50.4%
First Point Water ²	725 fpm	First Point Water ²	888 fpm
Resistance to Air ³	0.07"	Resistance to Air ³	0.15"

Baffle Blade Louvers

High Performance

High performance series offers higher free areas at reduced resistance to airflow. Used for higher velocities or where high free areas are required.



Frame Depth	4.0"	Frame Depth	6.0"
Blade Spacing	3.0"	Blade Spacing	4.0"
Blade Angle	35°	Blade Angle	35°
Free Area ¹	58.4%	Free Area ¹	57.3%
First Point Water ²	960	First Point Water ²	1123
Resistance to Air ³	0.13"	Resistance to Air ³	0.18"

¹ - Free Area is the space between frame and blades divided by the overall wall opening size (based on a size 48" Wide by 48" High)

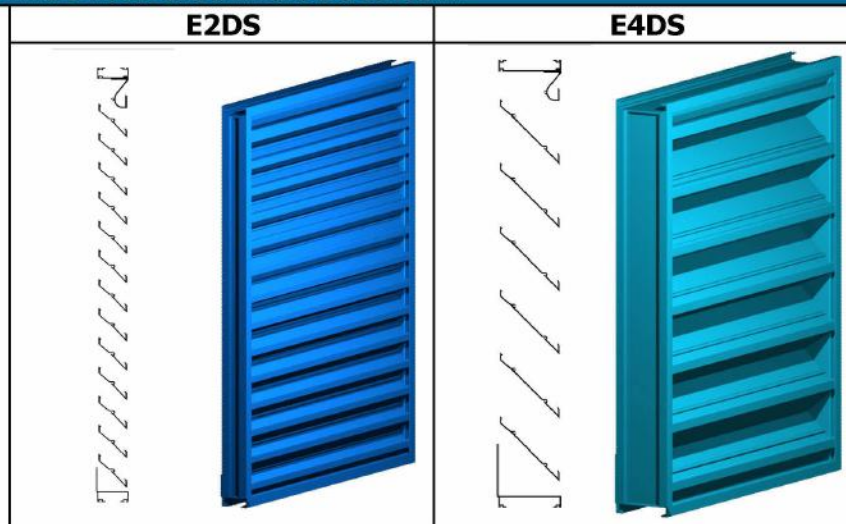
² - First point at which the louver entrains water, based on air intake free area velocities (0.01 oz. of water per square foot)

³ - Pressure drop of airflow across the louver at the first point of water penetration, expressed in inches water gauge

Drainable Blade Louvers

Standard Performance

Drainable Blade, standard performance louvers have a drain channel integral with the blade and frame to channel water away. Ideal applications include air intake where free area and velocity are low, or open ventilation areas where water entrainment is a concern.

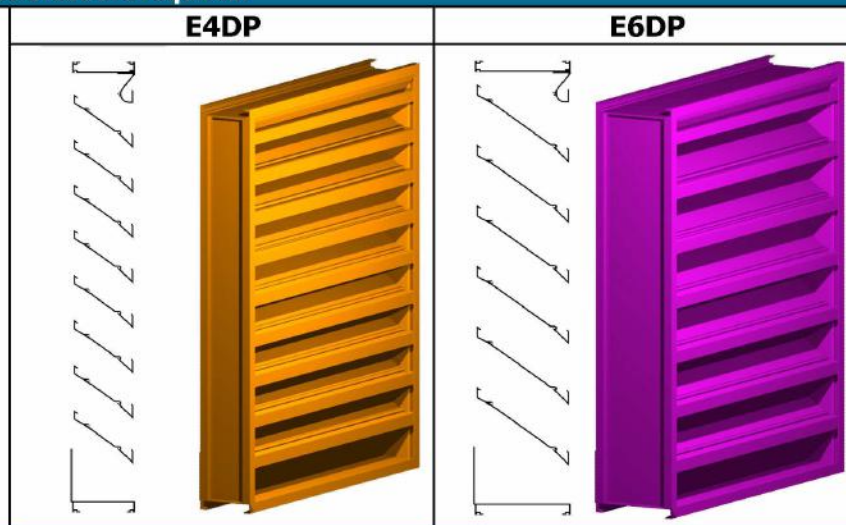


Frame Depth	2.0"	Frame Depth	4.0"
Blade Spacing	2.0"	Blade Spacing	4.25"
Blade Angle	45°	Blade Angle	45°
Free Area ¹	49.4%	Free Area ¹	56.0%
First Point Water ²	889 fpm	First Point Water ²	930 fpm
Resistance to Air ³	0.12"	Resistance to Air ³	0.13"

Drainable Blade Louvers

High Performance

High performance series offers higher free areas at reduced resistance to airflow. Used for higher velocities or where high free areas are required.



Frame Depth	4.0"	Frame Depth	6.0"
Blade Spacing	3.0"	Blade Spacing	4.0"
Blade Angle	35°	Blade Angle	35°
Free Area ¹	59.3%	Free Area ¹	57.7%
First Point Water ²	930	First Point Water ²	1046
Resistance to Air ³	0.12"	Resistance to Air ³	0.13"

¹ - Free Area is the space between frame and blades divided by the overall wall opening size (based on a size 48" Wide by 48" High)






² - First point at which the louver entrains water, based on air intake free area velocities (0.01 oz. of water per square foot)

³ - Pressure drop of airflow across the louver at the first point of water penetration, expressed in inches water gauge

Wind Driven Rain Louvers

Best Performance




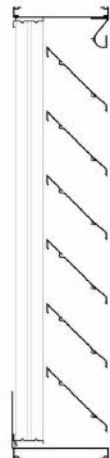

Typical louvers may not be enough to stop the effects of severe weather. The Wind Driven Rain series offers added protection against water infiltration into your building when high winds and rain combine.

	E2WV		E4WH		
					
Frame Depth	2.0"		Frame Depth	4.0"	
Blade Spacing	0.75"		Blade Spacing	2.0"	
Blade Angle	45°		Blade Angle	45°	
Free Area ¹	53.8%		Free Area ¹	50.6%	
Rain Resistance ²	99% at 866 fpm		Rain Resistance ²	99% at 1250 fpm	
Resistance to Air ³	0.25"		Resistance to Air ³	0.54"	

Wind Driven Rain Louvers

Best Performance

Combining exceptional rain resistance, low resistance to airflow, and respectable free areas. These louvers will withstand the forces of mother nature to provide the utmost protection for your building interior.

	E4WS		E6WH		
					
Frame Depth	4.0"		Frame Depth	6.0"	
Blade Spacing	4.25"		Blade Spacing	4.25"	
Blade Angle	45°		Blade Angle	45°	
Free Area ¹	56.0%		Free Area ¹	50.3%	
Rain Resistance ²	95% at 356 fpm		Rain Resistance ²	99% at 1250 fpm	
Resistance to Air ³	0.02"		Resistance to Air ³	0.58"	

¹ - Free Area is the space between frame and blades divided by the overall wall opening size (based on a size 48" Wide by 48" High)

² - Rain Resistance is measured in effectiveness at various air intake louver core velocities. See Technical Literature for more details.

³ - Pressure drop of airflow across the louver at the velocity shown, expressed in inches water gauge

Accessories and Options

Louvers

Wall Louvers are available with a number of accessories and options to meet the design requirements for your project. Listed below are the most common, but not all of our available options. We have the capability to modify our products further to meet you needs.

Option	Standard	Available
Wind Load:	30 pounds per square foot	Up to 150 pounds per square foot
Finishes:	Mill Finish Aluminum	Clear Anodized Aluminum Color Anodized Aluminum Baked Enamel Paint Finish Kynar Fluoropolymer Paint Finish Primer Coat for field painting
Frame Style:	Channel Frame	Flange Frame (1-1/2" wide) Glazing Channel (for storefront systems) J-Channel Frame (for siding or stucco)
Interior Screen:	3/4" Mesh Bird Screen	Insect Screen Variety of other screens
Shapes:	Square or Rectangular	Triangular, Rounded, Arched, and others
Mullions:	Exposed (visible at exterior)	Hidden (mullions hidden at exterior)

Exposed Mullion
Construction
Shown Right



Hidden Mullion
Construction
Shown Right



© 2016 Harray, LLC