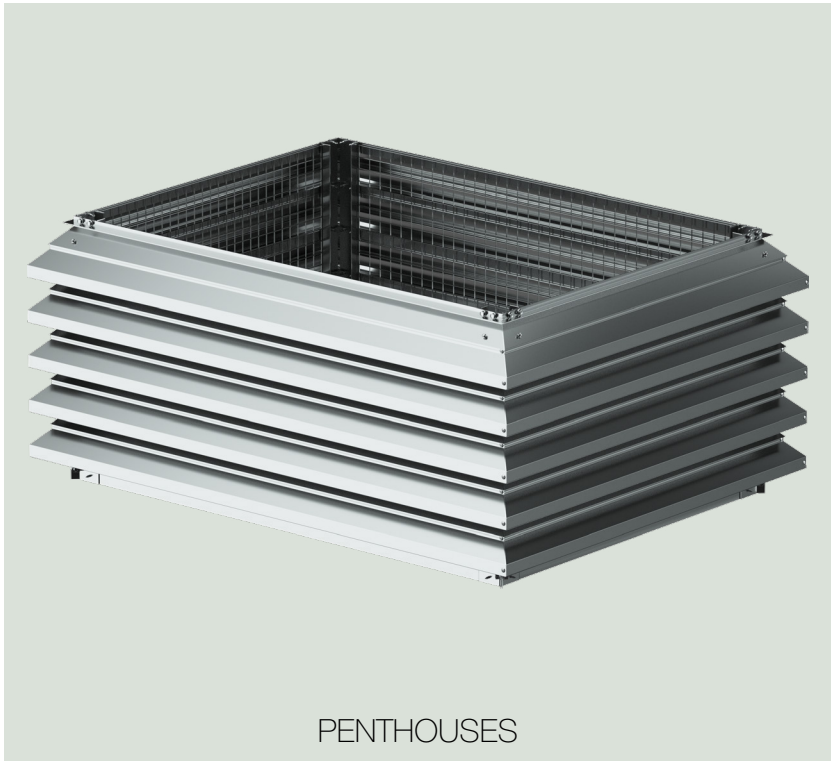


GREENHECK LOUVERS PRODUCT SELECTION GUIDE



CONVENTIONAL STATIONARY

EXTRUDED ALUMINUM - DRAINABLE BLADE

Model Name	Depth (in)	Blade Style	Blade Thickness (in)	Frame Thickness (in)	AMCA Licensed Ratings	Free Area - 4' x 4' Unit		Beginning Point of Water Penetration (ft/min)	Pressure Drop @ 6,000 CFM Intake (in wg)	Max Intake Volume Flow Rate (cfm)	Exhaust Volume Flow Rate @ 0.15 in wg (cfm)	Website	Submittal PDF
EDD-401	4	DD	0.081	0.081	AP, WP	8.22	51	992	0.08	8154	8312		
EDD-601	6	DD	0.081	0.081	AP, WP	8.21	51	1107	0.09	9088	8399		
EHM-601	6	DD	0.081	0.081	AP, WP	7.91	49	1065	0.08	8424	6577		
ESD-202	2	D	0.063	0.063	AP, WP	6.01	38	1058	0.13	6359	5963		
ESD-403	4	D	0.081	0.081	AP, WP	8.00	50	1007	0.10	8056	8188		
ESD-435	4	D	0.081	0.081	AP, WP	8.92	56	989	0.07	8822	9219		
ESD-603	6	D	0.081	0.081	AP, WP	8.36	52	1027	0.09	8586	8359		
ESD-635	6	D	0.081	0.081	AP, WP	9.41	59	1250	0.06	11,763	9954		
ESD-635HP	6	D	0.081	0.081	AP, WP	9.84	62	910	0.06	8954	9652		

EXTRUDED ALUMINUM - DRAINABLE HEAD

Model Name	Depth (in)	Blade Style	Blade Thickness (in)	Frame Thickness (in)	AMCA Licensed Ratings	Free Area, 4' x 4' Unit		Beginning Point of Water Penetration (ft/min)	Pressure Drop @ 6,000 CFM Intake (in wg)	Max Intake Volume Flow Rate (cfm)	Exhaust Volume Flow Rate @ 0.15 in wg (cfm)	Website	Submittal PDF
EDJ-401	4	J	0.081	0.081	AP, WP	8.32	52	963	0.08	8012	8325		
EDJ-601	6	J	0.081	0.081	AP, WP	8.69	54	998	0.08	8673	8563		
EDK-430	4	K	0.081	0.081	AP, WP	8.80	55	1002	0.07	8818	9309		

DD = Dual Drainable, D = Drainable, J = J Style, K = K Style
AP = Air Performance, WP = Water Penetration

STATIONARY LOUVERS Continued >>



CONVENTIONAL STATIONARY *continued*

EXTRUDED ALUMINUM - NON-DRAINABLE

Model Name	Depth (in)	Blade Style	Blade Thickness (in)	Frame Thickness (in)	AMCA Licensed Ratings	Free Area - 4' x 4' Unit		Beginning Point of Water Penetration (ft/min)	Pressure Drop @ 6,000 CFM Intake (in wg)	Max Intake Volume Flow Rate (cfm)	Exhaust Volume Flow Rate @ 0.15 in wg (cfm)	Website	Submittal PDF
ESJ-202	2	J	0.063	0.063	AP, WP	6.01	38	688	0.14	4015	5853		
ESJ-401	4	J	0.081	0.081	AP, WP	8.44	53	691	0.09	5832	7962		
ESJ-602	6	J	0.081	0.081	AP, WP	8.73	55	739	0.08	6452	8401		
ESK-402	4	K	0.081	0.081	AP, WP	8.45	53	689	0.08	5822	8216		

EXTRUDED ALUMINUM - SIGHTPROOF

Model Name	Depth (in)	Blade Style	Blade Thickness (in)	Frame Thickness (in)	AMCA Licensed Ratings	Free Area - 4' x 4' Unit		Beginning Point of Water Penetration (ft/min)	Pressure Drop @ 6,000 CFM Intake (in wg)	Max Intake Volume Flow Rate (cfm)	Exhaust Volume Flow Rate @ 0.15 in wg (cfm)	Website	Submittal PDF
SED-501	5	CD	0.081	0.081	AP, WP	9.11	57	1134	0.15	10331	7364		

J = J Style, K = K Style, CD = Chevron Drainable
AP = Air Performance, WP = Water Penetration

<< *Back to STATIONARY LOUVERS*



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LITERATURE




OPERABLE

EXTRUDED ALUMINUM - ADJUSTABLE BLADE

Model Name	Depth (in)	Blade Style	Blade Thickness (in)	Frame Thickness (in)	AMCA Licensed Ratings	Free Area - 4' x 4' Unit		Beginning Point of Water Penetration (ft/min)	Pressure Drop @ 6,000 CFM Intake (in wg)	Max Intake Volume Flow Rate (cfm)	Exhaust Volume Flow Rate @ 0.15 in wg (cfm)	Website	Submittal PDF
EAD-401	4	DA	0.081	0.125	AP, WP	6.54	41	920	0.18	6017	7074		
EAD-635	6	DA	0.081	0.125	AP, WP	8.73	55	1107	0.05	9664	9932		
EAH-690 (45° Blade)	6	J	0.081	0.125	AP	6.32	40	1069	-	6756	5056		
EAH-690 (90° Blade)	6	J	0.081	0.125	AP	10.87	70	-	-	-	10055		

EXTRUDED ALUMINUM - COMBINATION LOUVER/DAMPER

Model Name	Depth (in)	Blade Style	Blade Thickness (in)	Frame Thickness (in)	AMCA Licensed Ratings	Free Area - 4' x 4' Unit		Beginning Point of Water Penetration (ft/min)	Pressure Drop @ 6,000 CFM Intake (in wg)	Max Intake Volume Flow Rate (cfm)	Exhaust Volume Flow Rate @ 0.15 in wg (cfm)	Website	Submittal PDF
EAC-401	4	DA	0.081	0.125	AP, WP	6.34	40	1192	0.11	7557	6062		
EAC-601	6	DA	0.081	0.125	AP, WP	7.41	46	1024	0.08	7558	7146		
EACA-601	6	DAF	0.081	0.125	AP, WP	7.68	48	1221	0.07	9377	9586		
EACC-401	4	DA	0.081	0.125	NC	5.41	34	1192	0.15	6449	5171		
EACC-601	6	DA	0.081	0.125	NC	6.20	39	1020	0.12	6324	5977		
ECD-401	4	DA	0.081	0.081	AP, WP	7.60	48	1018	0.11	7737	7769		
ECD-601	6	DA	0.081	0.081	AP, WP	7.32	46	1035	0.09	7576	7700		
GCE-402	4	JG	0.081	0.081	NC	6.36	40	-	-	-	-		

DA = Drainable Adjustable, J - J Blade, DAF = Drainable Airfoil, JG - J Blade Gravity
AP = Air Performance, WP = Water Penetration, NC = Not Certified

OPERABLE LOUVERS Continued >>



WIND DRIVEN RAIN

HORIZONTAL BLADES

Model Name	Depth (in)	Blade Style	Blade Thickness (in)	Frame Thickness (in)	AMCA Licensed Ratings	Free Area - 4' x 4' Unit		Beginning Point of Water Penetration (ft/min)	Pressure Drop @ 6,000 CFM Intake (in wg)	Max Intake Volume Flow Rate (cfm)	Exhaust Volume Flow Rate @ 0.15 in wg (cfm)	Website	Submittal PDF
EHH-201	2	RR	0.063	0.063	AP, WP, WDR	6.22	39	973	0.22	5667	5487		
EHH-401	4	RR	0.063	0.081	AP, WP, WDR	6.76	42	1043	0.15	8400	5782		
EHH-501	5	RR	0.063	0.081	AP, WP, WDR	6.80	43	1250	0.11	8500	5998		
EHH-601	6	RR	0.081	0.081	AP, WP, WDR	7.58	47	1250	0.13	9475	6091		
EHH-701	7	RR	0.081	0.081	AP, WP, WDR	6.99	43	1250	0.20	8962	4522		

VERTICAL BLADES

Model Name	Depth (in)	Blade Style	Blade Thickness (in)	Frame Thickness (in)	AMCA Licensed Ratings	Free Area - 4' x 4' Unit		Beginning Point of Water Penetration (ft/min)	Pressure Drop @ 6,000 CFM Intake (in wg)	Max Intake Volume Flow Rate (cfm)	Exhaust Volume Flow Rate @ 0.15 in wg (cfm)	Website	Submittal PDF
EVB-302	3	RR	0.050	0.062/0.081	AP, WP, WDR, 540, 550	8.13	51	1250	0.10	10163	8601		

EVB-501	5	RR	0.060	0.081	AP, WP, WDR	8.77	55	1250	0.08	10888	8190		
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DUAL MODULE

Model Name	Depth (in)	Blade Style	Blade Thickness (in)	Frame Thickness (in)	AMCA Licensed Ratings	Free Area - 4' x 4' Unit		Beginning Point of Water Penetration (ft/min)	Pressure Drop @ 6,000 CFM Intake (in wg)	Max Intake Volume Flow Rate (cfm)	Exhaust Volume Flow Rate @ 0.15 in wg (cfm)	Website	Submittal PDF
EHV-901	9	RR	0.081	0.081	AP, WP, WDR, 540, 550	8.66	54	974	0.16	8434	6088		

EHV-550	5.5	RR	0.081	0.081	AP, WP, WDR, 540, 550	8.02	50	1083	0.21	8662	4812		
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RR = Rain Resistant
AP = Air Performance, WP = Water Penetration, WDR = Wind Driven Rain, 540 = AMCA 540, 550 = AMCA 550



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LITERATURE




HURRICANE

AMCA 540 & 550 LISTED

Model Name	Depth (in)	Blade Style	Blade Thickness (in)	Frame Thickness (in)	AMCA Licensed Ratings	Free Area - 4' x 4' Unit		Beginning Point of Water Penetration (ft/min)	Pressure Drop @ 6,000 CFM Intake (in wg)	Max Intake Volume Flow Rate (cfm)	Exhaust Volume Flow Rate @ 0.15 in wg (cfm)	Website	Submittal PDF
EHV-901	9	RR	0.081	0.081	AP, WP, WDR, 540, 550	8.66	54	974	0.16	8434	6088		
EHV-550	5.5	RR	0.081	0.081	AP, WP, WDR, 540, 550	8.02	50	1083	0.18	8001	4812		
EVH-302	3	RR	0.050	0.062/0.081	AP, WP, WDR, 540, 550	8.13	51	1250	0.10	10163	8601		

AMCA 540 & 550 LISTED MIAMI-DADE & FLORIDA APPROVED

Model Name	Depth (in)	Blade Style	Blade Thickness (in)	Frame Thickness (in)	AMCA Licensed Ratings	Free Area - 4' x 4' Unit		Beginning Point of Water Penetration (ft/min)	Pressure Drop @ 6,000 CFM Intake (in wg)	Max Intake Volume Flow Rate (cfm)	Exhaust Volume Flow Rate @ 0.15 in wg (cfm)	Website	Submittal PDF
EHV-550D	5.5	RR	0.081	0.081	AP, WP, WDR, 540, 550	8.02	50	1083	0.20	8686	4812		
EHV-901D	9	RR	0.081	0.081	AP, WP, WDR, 540, 550	8.66	54	974	0.16	8434	6088		
EVH-302D	3	RR	0.050	0.062/0.081	AP, WP, WDR, 540, 550	8.13	51	1250	0.10	10163	8601		
EVH-501D	5	RR	0.063	0.081	AP, WP, WDR, 540, 550	8.77	55	1250	0.08	10888	8190		
EVH-660D ³	6	RR	0.063	0.095	AP, WP, WDR, 540, 550	7.29	45	1250	0.12	9113	7160		
EACA-601D	6	DAF	0.081	0.125	AP, WP, 540, 550	7.27	45	1221	0.08	9377	9586		
EHH-601D ^{1,2,4}	6	RR	0.081	0.081	AP, WP, WDR, 540, 550	7.58	47	1250	0.16	9475	5794		

AMCA 540 LISTED MIAMI-DADE & FLORIDA APPROVED

Model Name	Depth (in)	Blade Style	Blade Thickness (in)	Frame Thickness (in)	AMCA Licensed Ratings	Free Area - 4' x 4' Unit		Beginning Point of Water Penetration (ft/min)	Pressure Drop @ 6,000 CFM Intake (in wg)	Max Intake Volume Flow Rate (cfm)	Exhaust Volume Flow Rate @ 0.15 in wg (cfm)	Website	Submittal PDF
ESD-635D ¹	6	D	0.081	0.125	AP, WP, 540	9.41	59	1250	0.06	11763	9954		
ESD-635DE ¹	6	D	0.081	0.081	AP, WP, 540	9.41	59	1250	0.06	11763	9954		
EHH-601DE ^{1,2}	6	RR	0.081	0.081	AP, WP, WDR, 540	7.58	47	1250	0.16	970	6024		

RR = Rain Resistant, DAF = Drainable Airfoil, D = Drainable
AP = Air Performance, WP = Water Penetration, WDR = Wind Driven Rain, 540 = AMCA 540 Listed, 550 = AMCA 550 Listed
¹ Available with optional VCD-40 damper mounted on the interior of the louver. ² Complies with TAS-100(A) when damper is applied. ³ Complies with TAS-100(A). ⁴ Complies with AMCA 550 when combined with optional factory attached VCD-40 damper in the closed position.

HURRICANE LOUVERS continued >>

HURRICANE *continued*

AMCA 540 FLORIDA APPROVED

Model Name	Depth (in)	Blade Style	Blade Thickness (in)	Frame Thickness (in)	AMCA Licensed Ratings	Free Area - 4' x 4' Unit		Beginning Point of Water Penetration (ft/min)	Pressure Drop @ 6,000 CFM Intake (in wg)	Max Intake Volume Flow Rate (cfm)	Exhaust Volume Flow Rate @ 0.15 in wg (cfm)	Website	Submittal PDF
ESD-435X	4	D	0.081	0.081	AP, WP, 540	8.92	56	989	0.07	8881	8670		
ESD-635X	6	D	0.081	0.081	AP, WP, 540	9.41	59	1250	0.06	11763	9954		
EHH-501X	5	RR	0.081	0.081	AP, WP, WDR, 540	6.80	43	1250	0.11	8500	5998		

DUAL MODULE

Model Name	Depth (in)	Blade Style	Blade Thickness (in)	Frame Thickness (in)	AMCA Licensed Ratings	Free Area - 4' x 4' Unit		Beginning Point of Water Penetration (ft/min)	Pressure Drop @ 6,000 CFM Intake (in wg)	Max Intake Volume Flow Rate (cfm)	Exhaust Volume Flow Rate @ 0.15 in wg (cfm)	Website	Submittal PDF
EHV-901	9	RR	0.081	0.081	AP, WP, WDR, 540, 550	8.66	54	974	0.16	8434	6088		
EHV-550	5.5	RR	0.081	0.081	AP, WP, WDR, 540, 550	8.02	50	1083	0.21	8662	4812		

RR = Rain Resistant, D = Drainable
AP = Air Performance, WP = Water Penetration, WDR = Wind Driven Rain, 540 = AMCA 540 Listed, 550 = AMCA 550 Listed
¹ Available with optional VCD-40 damper mounted on the interior of the louver. ² Complies with TAS-100(A) when damper is applied. ³ Complies with TAS-100(A).

<< Back to HURRICANE LOUVERS

SPECIALTY LOUVERS

BRICK VENTS

Model Name	Depth (in)	Blade Style	Blade Thickness (in)	Frame Thickness (in)	AMCA Licensed Ratings	Free Area - 4' x 4' Unit		Beginning Point of Water Penetration (ft/min)	Pressure Drop @ 6,000 CFM Intake (in wg)	Max Intake Volume Flow Rate (cfm)	Exhaust Volume Flow Rate @ 0.15 in wg (cfm)	Website	Submittal PDF
BVE	4	BV	0.125	0.125	NC	-	-	-	-	-	-		
<u>Available sizes:</u> 8.125 x 2.375", 8.125 x 4.75", 8.125 x 7.75", 12 x 2.375", 12 x 4.75", 12 x 7.75", 12 x 11.75", 15.625 x 7.75", 15.625 x 15.75", 16.5 x 2.375", 16.5 x 4.75", 16.5 x 7.75", 16.5 x 15.75", 24 x 2.375", 24 x 4.75", 24 x 7.75", 32 x 7.75", 48 x 7.75"													
BVF	1.5	BV	0.125	0.125	NC	-	-	-	-	-	-		
<u>Available sizes:</u> 8.125 x 2.375", 8.125 x 4.75", 8.125 x 7.75", 12 x 2.375", 12 x 4.75", 12 x 7.75", 12 x 11.75", 15.625 x 7.75", 15.625 x 15.75", 16.5 x 2.375", 16.5 x 4.75", 16.5 x 7.75", 16.5 x 15.75", 24 x 2.375", 24 x 4.75", 24 x 7.75", 32 x 7.75", 48 x 7.75"													
*BVF Brick Vents add 1" face flange on all four (4) sides to order size.													

EQUIPMENT SCREEN

Model Name	Depth (in)	Blade Style	Blade Thickness (in)	Frame Thickness (in)	AMCA Licensed Ratings	Free Area - 4' x 4' Unit		Beginning Point of Water Penetration (ft/min)	Pressure Drop @ 6,000 CFM Intake (in wg)	Max Intake Volume Flow Rate (cfm)	Exhaust Volume Flow Rate @ 0.15 in wg (cfm)	Website	Submittal PDF
EES-401	4	J	0.081	NA	NC	8.23	51	-	-	-	-		

FEMA 361 TORNADO

Model Name	Depth (in)	Blade Style	Blade Thickness (in)	Frame Thickness (in)	AMCA Licensed Ratings	Free Area - 4' x 4' Unit		Beginning Point of Water Penetration (ft/min)	Pressure Drop @ 6,000 CFM Intake (in wg)	Max Intake Volume Flow Rate (cfm)	Exhaust Volume Flow Rate @ 0.15 in wg (cfm)	Website	Submittal PDF
AFL-501	5.5	SP	0.250	0.250	AP, WP	7.55	47	634	0.16	4786	5710		
AFL-601	6	RR	0.188	0.188	AP, WP, WDR, 540, 550	6.97	44	1250	0.33	8713	4237		

BV = Brick Vent, J = J Blade, SP = Sightproof, RR = Rain Resistant
AP = Air Performance, WP = Water Penetration, WDR = Wind Driven Rain, 540 = AMCA 540 Listed, 550 = AMCA 550 Listed, NC = Not Certified

SPECIALTY LOUVERS Continued >>



SPECIALTY LOUVERS *continued*

THINLINE LOUVERS

Model Name	Depth (in)	Blade Style	Blade Thickness (in)	Frame Thickness (in)	AMCA Licensed Ratings	Free Area - 4' x 4' Unit		Beginning Point of Water Penetration (ft/min)	Pressure Drop @ 6,000 CFM Intake (in wg)	Max Intake Volume Flow Rate (cfm)	Exhaust Volume Flow Rate @ 0.15 in wg (cfm)	Website	Submittal PDF
ESJ-155	1.5	J	0.056	0.063	NC	7.35	46	-	-	-	-		
ESU-153	1.5	T	0.050	0.063	NC	11.20	70	-	-	-	-		
ESU-154	1.5	T	0.050	0.063	NC	8.49	53	-	-	-	-		

ACOUSTICAL LOUVERS

Model Name	Depth (in)	Blade Style	Blade Thickness (in)	Frame Thickness (in)	AMCA Licensed Ratings	Free Area - 4' x 4' Unit		Beginning Point of Water Penetration (ft/min)	Pressure Drop @ 6,000 CFM Intake (in wg)	Max Intake Volume Flow Rate (cfm)	Exhaust Volume Flow Rate @ 0.15 in wg (cfm)	Website	Submittal PDF
AFA-801	8	AF	0.080	0.080	AP, WP, S	5.21	33	879	0.09	4580	7508		
AFJ-120	12	J	0.080	0.080	AP, WP, S	3.39	21	1108	0.32	3258	4198		
AFJ-601	6	J	0.080	0.080	AP, WP, S	4.89	31	799	0.15	3907	6015		
AFJ-801	8	J	0.080	0.080	AP, WP, S	4.28	27	887	0.20	3796	5192		

J = J Style, T = Thinline, AF = Airfoil
AP = Air Performance, WP = Water Penetration, S = Sound

<< *Back to SPECIALTY LOUVERS*



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LITERATURE




PENTHOUSES

STANDARD PENTHOUSE

Model Name	Depth (in)	Blade Style	Blade Thickness (in)	Frame Thickness (in)	AMCA Licensed Ratings	Free Area - 4' x 4' Unit		Beginning Point of Water Penetration (ft/min)	Pressure Drop @ 6,000 CFM Intake (in wg)	Max Intake Volume Flow Rate (cfm)	Exhaust Volume Flow Rate @ 0.15 in wg (cfm)	Website
WIHWRH	4	J	0.081	0.081	NC	ft²	%	-	-	-	-	

MIAMI-DADE & FLORIDA APPROVED PENTHOUSES

Model Name	Depth (in)	Blade Style	Blade Thickness (in)	Frame Thickness (in)	AMCA Licensed Ratings	Free Area - 4' x 4' Unit		Beginning Point of Water Penetration (ft/min)	Pressure Drop @ 6,000 CFM Intake (in wg)	Max Intake Volume Flow Rate (cfm)	Exhaust Volume Flow Rate @ 0.15 in wg (cfm)	Website	Submittal PDF
ESD-635PD	6	D	0.081	0.081	NC	ft²	%	-	-	-	-		
EHH-601PD	6	RR	0.081	0.081	NC	ft²	%	-	-	-	-		

J = J Style, D = Drainable, RR = Rain Resistant
NC = Not Certified



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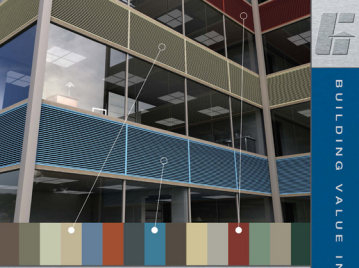

LITERATURE




LITERATURE & SUPPORT MATERIAL

LITERATURE

Louver Finishes & Colors



GREENHECK

Building Value in Air.

April 2020

BUILDING VALUE IN AIR.

FINISHES & COLORS

PRODUCT INFORMATION

GREENHECK'S

PRODUCT INFORMATION

EAD-635

Aluminum 35° Adjustable Blade Louver

Did you know specifying the Greenheck EAD-635 adjustable blade louvers for warehouse and distribution center applications can save you money? Greenheck model EAD-635 offers the highest air intake volume capacity in its class due to the combination of extremely high free area and high velocity air filtering. Free of Water Penetration (BPI-97). As a result you may design your applications with fewer louvers when compared to competing equivalent products. Fewer louvers will result in lower first cost, lower installation cost and lower operational cost as a result of fewer electric actuators.

**For product specifications see website site.*

Application Case Study

Warehouse ventilation consisting of 1,500,000 cfm intake through 76 inch wide x 56 inch high adjustable blade louvers saving louvers a 75% over typical equivalent price of many competitors.

Product	Greenheck EAD-635	Greenheck EAD-635	Greenheck EAD-635	Greenheck EAD-635	Greenheck EAD-635
Free Area (sq ft)	18,000	21,000	30,000	30,000	30,000
75% Capacity (CFM) Free Area	1,337	1,500	646	646	646
75% Capacity (CFM) Free Area Velocity (FPM)	850	866	625	625	625
Free Area Required for 1,000,000 CFM (sq ft)	1,807.23	1,702.10	2,382.20	2,372.73	2,387.36
Free Area Required for 1,000,000 CFM (sq ft) @ 100 FPM	47	55	94	94	92
Free Area Required for 1,000,000 CFM (sq ft) @ 100 FPM	1,814.67	1,710.40	2,389.64	2,380.42	2,393.88
Free Area Required for 1,000,000 CFM (sq ft) @ 100 FPM	47	55	94	94	92
Free Area Required for 1,000,000 CFM (sq ft) @ 100 FPM	1,814.67	1,710.40	2,389.64	2,380.42	2,393.88
Free Area Required for 1,000,000 CFM (sq ft) @ 100 FPM	47	55	94	94	92
Free Area Required for 1,000,000 CFM (sq ft) @ 100 FPM	1,814.67	1,710.40	2,389.64	2,380.42	2,393.88

**For product specifications see website site.*

GREENHECK

Building Value in Air.

EAD-635

GREENHECK'S

PRODUCT INFORMATION

AFL-501

Aluminum FEMA 301 Louver

Greenheck is pleased to introduce our AFL 501 Louver for consideration on your next FEMA 301 construction project. Greenheck refers to provide design professionals, contractors and owners alike with high performance louvers solutions that in both form and function. We believe you will find the AFL-501 Louver to be an excellent addition to our industry leading line of Screen Duty louvers products.

**For product specifications see website site.*

Features and Benefits

- Ideally suited to your current wall penetration FEMA 301 or 350 equivalent steel doors or safe rooms
- All hardware constructed for superior weatherability
- Screen Duty Louvers
- AMCA 500 Listed for Air Performance AND Water Penetration
- Tested in accordance with and passes the ICC-500 debris impact standard 15 ft/s, 2 x 4, 180 mph
- UL Classified wind storm rated assembly
- Qualified for wind loads up to 250 psf when installed in accordance with published installation instructions
- Multiple installation configurations available
- Lighter and easier to install than equivalent FEMA 301 louvers
- Manufactured with equivalent and FEMA 301 louvers
- Many louvers gate blades available for equivalent and FEMA 301 louvers
- Available on fence back doors that equivalent and FEMA 301 louvers including Quick-Build!

GREENHECK

Building Value in Air.

AFL-501 Aluminum Louver

GREENHECK'S

PRODUCT INFORMATION

EHV-550D

Hurricane Louver

Ideal for the Hurricane Prone Region

- AMCA 500 Listed for High Velocity Wind Drive Rain
- AMCA 540 Listed for Wind-Drive Rain Impact
- Plastic Product Approval
- Manual Drive, PL-HDA (9 8/16/03) (Elevated Wind Load: 100 FPM)
- AMCA Seal for Water Penetration, Air Performance and Wind Drive Rain

Options available

- Variety of Seal and Screen Types
- Blanked Panels
- Blanked Sill
- Filter Back
- Flange Frame
- Screen Duty
- Variety of Architectural Finishes

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EHV-550D Hurricane Louver

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PRODUCT INFORMATION

AFL-601

Wind-Driven Rain FEMA Louver

Finally, an all in one wind driven rain FEMA louvers that acts like and Seal competitors offer FEMA 301 louvers with certified wind-driven performance. However, none of them offer exceptional wind-driven performance. Our newly developed AFL-601 is ideally suited for FEMA wind-driven rain and storm shutters. The AFL-601 has superior free area and AMCA 500 L Wind-Driven Rain performance to competitive products while also being the only product in its class to have the AMCA 540 High Velocity Wind-Driven Rain Rating making it suitable for wind-driven rain and storm shutters applications in the Hurricane Prone Region or any location where maximum protection against wind-driven rain is preferred.

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AFL-601 Wind-Driven Rain FEMA

MARKET APPLICATION

GREENHECK'S

MARKET APPLICATION

Louvers

The Right Solution for Data Centers

Are you designing or specifying exterior weather louvers for Data Center projects? When it comes to the selection of louver products there are several key factors and configurations you may consider. Design professionals must consider both protection from extreme weather elements along with aesthetics. Fortunately, Greenheck manufactures an industry leading line of high performance Wind-Driven Rain Louvers that will meet both the function and the form for your next Data Center project.

**For product specifications see website site.*

Louver Selection

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Louvers for Data Centers

DATA CENTER

GREENHECK'S

MARKET APPLICATION

Louvers

The Right Solution for Warehouse/Distribution Centers

Are you designing or specifying exterior weather louvers for Warehouse/Distribution Center projects? When it comes to the selection of louver products there are several key factors and configurations you may consider. Design professionals must consider both protection from extreme weather elements along with aesthetics. Fortunately, Greenheck manufactures an industry leading line of high performance louvers that will meet both the function and the form for your next Warehouse/Distribution Center project.

**For product specifications see website site.*

Louver Selection

GREENHECK

Building Value in Air.

Louvers for Warehouse/Distribution Centers

WAREHOUSE

GREENHECK'S

MARKET APPLICATION

AMCA 550

Test Method for High Velocity Wind-Driven Rain Resistant Louvers

Did you know that, if located in the Hurricane Prone Region, all intake and exhaust louvers must comply with AMCA 550 (Test Method for High Velocity Wind-Driven Rain Resistant Louvers) per the International Mechanical Code? The AMCA 550 test method requires a wind speed up to 110 MPH with an external rainfall rate of 8.0 in. per hour. To pass AMCA 550, no more than 1% of the total gross area may be penetrated by the wind. If your area has adopted International Building Code 2012, 2015 and 2018 now is the time to ensure that intake and exhaust louvers specifications call for an AMCA 550 Listed Louver. If located in the Hurricane Prone Region.

U.S. States or Territories Impacted in Part or Whole by the Hurricane Prone Region (BIC Adoption as of May 2018)

Building code adoption and interpretation may vary. Consult your local code official for exact requirements.

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Hurricane Prone Region Lower Requirements

AMCA550

SUPPORT MATERIAL

GREENHECK'S

MARKET APPLICATION

Louvers

Effects of Screens on Louver Performance

The effects of wind on louvers can have a direct impact on performance. It is extremely critical to specify AMCA 550 L Louver Performance does not consider the effects of screens such as a balcony or an insect screen. As such, any published performance does not take into account the effects of wind on louvers, however, it is critical that a screen would increase airflow resistance.

To test the HVAC system design engineers Greenheck recently conducted pressure drop testing on one of our more popular louver models with various types of blind or insect screens in place. The sample test included a horizontal and vertical blade louver. As one might suspect, the results differ from louver type to louver type. The chart below depicts the average increase in airflow resistance for four commonly used screen types.

Application Example

Let's assume a louver bank 10' in. x 10' pressure drop at a specific volume in free area velocity 10' x 10' water air intake application, the estimated overall static pressure drop including a standard equivalent downstream resistance would be 0.12 in. w.g. @ 10' x 10' x 1.0. For volume it would be 0.12 in. w.g. @ 10' x 10'.

Screen Type	Estimated Equivalent Downstream Resistance (Pa)	Estimated Equivalent Downstream Resistance (Pa)	Estimated Equivalent Downstream Resistance (Pa)	Estimated Equivalent Downstream Resistance (Pa)	Estimated Equivalent Downstream Resistance (Pa)	Estimated Equivalent Downstream Resistance (Pa)	Estimated Equivalent Downstream Resistance (Pa)
Screen Type	12%	8%	12%	7%	17%	21%	17%

In an upcoming eCAPS update Greenheck intends to incorporate a "screen effect" input in calculated pressure drop so that design professionals selecting louver products can consider the additional average airflow resistance increase caused by a blind or an insect screen.

Contact louver engineering with any additional questions at louverengineering@greenheck.com or 800.973.4066.

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Building Value in Air.

EFFECTS OF SCREEN

FAQs

Air Movement Control Association (AMCA) Resources

INTRODUCTION TO INTAKE & EXHAUST LOUVERS

LOUVERS REQUIREMENTS FOR HURRICANE PRONE REGIONS

UNDERSTANDING THE AMCA STANDARD 500-L TESTS

HOW TO SPECIFY AMCA-CERTIFIED SAND LOUVERS



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