POTTORFF®
LOUVERS

ACOUSTICAL • COMBINATION • DRAINABLE • EQUIPMENT SCREENS & CANOPY
FEMA • FLORIDA BUILDING CODE • FORMED METAL • MIAMI-DADE CERTIFIED
NON-DRAINABLE • OPERABLE • PENTHOUSES • SEVERE DUTY • SPECIALTY











A LOUVER FOR ANY CONDITION

POTTORFF IS:

Innovation, quality, performance and service are what differentiate Pottorff's products among the competition. Founded in 1928, we are one of the most respected suppliers in the industry today. It is our experience, versatility, and ability to react quickly to our customer's needs which makes us the choice for architects and engineers.

HOW WE ARE DIFFERENT FROM THE COMPETITION:

- Ongoing commitment to personal and technical service
- Products delivered on time and on budget
- Louver Information and Selection Tool

PRODUCT SELECTION GUIDE

MODEL	DEPTH	BLADE ANGLE	BLADE STYLE	FREE AREA	VELOCITY (fpm)	AIR VOLUME (cfm)	AMCA CERT*	PG
NON-DRAINABLE LOUVERS								4
EEI-430 DRAINABLE HEAD	4"	30°	INTAKE – EXHAUST	–	–	–	–	4
EFE-430-HP DRAINABLE HEAD	4"	30°	EXHAUST	64.5%	–	–	–	4
EFJ-245	2"	45°	J-BLADE	45.8%	942	6911	–	4
EFJ-430	4"	30°	J-BLADE	59.6%	1002	8549	–	4
EFJ-437	4"	37.5°	J-BLADE	55.5%	772	6853	WP/AP	4
EFJ-437-HP DRAINABLE HEAD	4"	37.5°	HIGH-PERFORMANCE J	56.3%	912	8220	WP/AP	4
EFJ-445	4"	45°	J-BLADE	50.1%	781	6317	WP/AP	4
EFJ-637-HP DRAINABLE HEAD	6"	37.5°	HIGH-PERFORMANCE J	56.3%	915	8226	–	4
EFJ-645	6"	45°	J-BLADE	50.6%	1155	9359	–	4
EFK-430	4"	30°	K-BLADE	59.6%	1002	8549	–	4
EFK-437	4"	37.5°	K-BLADE	55.5%	772	6853	WP/AP	4
EFK-445	4"	45°	K-BLADE	50.1%	781	6317	WP/AP	4
EFK-637	6"	37.5°	K-BLADE	54.6%	1157	10102	–	4
EFY-245	2"	45°	INVERTED Y	30.8%	679	3351	–	4
EFY-445	4"	45°	INVERTED Y	34.8%	834	4649	–	4
DRAINABLE LOUVERS								5
EDD-445	4"	45°	DUAL-DRAINABLE	50.4%	1026	8311	WP/AP	5
EDD-637	6"	37.5°	DUAL-DRAINABLE	57.7%	1113	10242	WP/AP	5
EFD-245	2"	45°	DRAINABLE	46.1%	868	6404	WP/AP	5
EFD-435	4"	35°	DRAINABLE	58.1%	966	8984	WP/AP	5
EFD-437	4"	37.5°	DRAINABLE	58.1%	903	8398	WP/AP	5
EFD-445	4"	45°	DRAINABLE	50.4%	1026	8311	WP/AP	5
EFD-635	6"	35°	DRAINABLE	60.7%	1250	12138	WP/AP	5
EFD-637	6"	37.5°	DRAINABLE	57.5%	1113	10242	WP/AP	5
EFD-645	6"	45°	DRAINABLE	54.6%	1009	8811	WP/AP	5
ERD-645	6"	45°	RECESSED – DRAINABLE	50.6%	990	8059	–	5
MIAMI-DADE — HURRICANE RATED LOUVERS								6
ECD-545-MD	5"	45°	CHEVRON	41.9%	1250	8388	WP/AP/W	6
ECV-345-MD	3"	45°	VERTICAL CHEVRON	46.9%	1250	9375	WP/AP/W	6
ECV-545-MD	5"	45°	VERTICAL CHEVRON	54.8%	1250	10963	WP/AP/W	6
ECV-645-MD	6"	45°	VERTICAL CHEVRON	46.0%	1250	9250	WP/AP/W	6
EDV-545-MD	5"	45°	DUAL-BLADE	50.2%	1250	10038	WP/AP/W	6
EFD-635-MD	6"	35°	DRAINABLE	60.9%	1250	12175	WP/AP	6
EFJ-937-MD	9"	37.5°	DUAL-BLADE	53.9%	1250	10775	WP/AP/W	6
EXA-645-MD	6"	37.5°– 45°	COMBINATION	48.1%	1076	8281	WP/AP	6
SEVERE-DUTY/WIND-DRIVEN RAIN LOUVERS — HORIZONTAL BLADE								7
ECD-245	2"	45°	CHEVRON	41.3%	1006	6649	WP/AP/W	7
ECD-445	4"	45°	CHEVRON	42.7%	1250	8538	WP/AP/W	7
ECD-545	5"	45°	CHEVRON	46.3%	1250	9250	WP/AP/W	7
ECD-635	6"	35°	CHEVRON	50.3%	1250	10050	WP/AP/W	7
ECD-745	7"	45°	CHEVRON	50.6%	1218	9866	WP/AP/W	7
EFD-437-FL	4"	37.5°	DRAINABLE	55.3%	1029	9105	WP/AP	7
SEVERE-DUTY/WIND-DRIVEN RAIN LOUVERS — VERTICAL BLADE								8
ECV-245	2"	45°	VERTICAL CHEVRON	41.5%	1250	8299	WP/AP	8
ECV-345	3"	45°	VERTICAL CHEVRON	46.9%	1250	9375	WP/AP/W	8
ECV-445	4"	45°	VERTICAL CHEVRON	42.9%	1250	8575	AP/W	8
ECV-545	5"	45°	VERTICAL CHEVRON	54.8%	1250	10963	WP/AP/W	8
ECV-645	6"	45°	VERTICAL CHEVRON	46.0%	1250	9250	WP/AP/W	8
EDV-545	5"	45°	DUAL-BLADE	50.2%	1250	10038	WP/AP/W	8
EFJ-937	9"	37°	DUAL-BLADE	53.9%	1250	10755	WP/AP/W	8

*AMCA CERT LEGEND:
Abbreviations used throughout the brochure | AL Air Leakage | AP Air Performance | S Sound | W Wind-Driven Rain | WS Wind-Driven Sand | WP Water Penetration

PRODUCT SELECTION GUIDE (CONT)

MODEL	DEPTH	BLADE ANGLE	BLADE STYLE	FREE AREA	VELOCITY (fpm)	AIR VOLUME (cfm)	AMCA CERT*	PG
OPERABLE LOUVERS								11
EOD-445	4"	45°	OPERABLE – DRAINABLE	43.1%	1024	7096	–	11
EOD-637	6"	37.5°	OPERABLE – DRAINABLE	53.9%	1136	9801	–	11
EOJ-445	4"	45°	OPERABLE J-BLADE	45.9%	683	5016	–	11
EOJ-637	6"	37.5°	OPERABLE J-BLADE	56.3%	810	7282	–	11
EOJ-690	6"	90°	OPERABLE J-BLADE	68.5%	748	8325	AP	11
SOJ-445	4"	45°	FORMED OPERABLE J-BLADE	46.9%	775	5813	–	11
CONCEALED MOTOR LOUVERS								12
COMBINATION LOUVERS								12
EBE-445	4"	45°	J-BD-EXHAUST	49.4%	689	5396	–	12
EBI-445	4"	45°	J-BD-INTAKE	49.4%	689	5396	–	12
EXA-645	6"	37.5°– 45°	COMBINATION	50.4%	1085	8756	WP/AP/AL	12
EXD-437	4"	37.5°	COMBINATION	43.0%	1172	8134	WP/AP	12
EXD-645	6"	37.5°– 45°	COMBINATION	44.4%	1050	7455	–	12
FORMED METAL LOUVERS								13
SBE-245	2"	45°	J-BD-EXHAUST	41.0%	383	2528	–	13
SBE-445	4"	45°	J-BD-EXHAUST	46.9%	775	5813	–	13
SBI-445	4"	45°	J-BD-INTAKE	46.9%	775	5813	–	13
SFD-445	4"	45°	DRAINABLE	53.1%	715	6092	–	13
SFD-635	6"	35°	DRAINABLE	61.7%	815	8044	–	13
SFJ-245	2"	45°	J-BLADE	42.0%	603	4040	–	13
SFJ-430	4"	30°	J-BLADE	51.0%	847	6945	–	13
SFJ-445	4"	45°	J-BLADE	48.0%	775	5991	–	13
SFJ-630	6"	30°	J-BLADE	65.2%	825	8580	–	13
SFJ-645	6"	45°	J-BLADE	50.0%	800	6400	–	13
SFK-445	4"	45°	K-BLADE	48.0%	775	5991	–	13
SFK-645	6"	45°	K-BLADE	50.0%	800	6400	–	13
SFV-445	4"	45°	CHEVRON	38.0%	600	3648	–	13
ACOUSTICAL LOUVERS								14
EAA-645	6"	45°	AIRFOIL	25.0%	1137	4541	–	14
EAA-845	8"	45°	AIRFOIL	37.9%	649	3931	WP/AP	14
EAA-1245	12"	45°	AIRFOIL	26.3%	999	4196	–	14
EAJ-437	4"	37°	INSULATED-J	33.7%	740	3992	–	14
EAJ-637	6"	37°	INSULATED-J	32.5%	890	4627	–	14
EAJ-1235	12"	35°	INSULATED-J	30.6%	924	4528	WP/S/AP	14
FAA-1245	12"	45°	FORMED AIRFOIL	26.3%	999	4196	–	14
SAJ-835	8"	35°	FORMED-J	33.1%	808	4293	–	14
SAJ-1235	12"	35°	FORMED-J	30.6%	924	4528	WP/S/AP	14
SPECIALTY LOUVERS								15
EBV-145	1.5"	45°	J-BLADE	–	–	–	–	15
EBV-445	4"	45°	J-BLADE	–	–	–	–	15
EVS-422 SAND LOUVER	4"	22°	VERTICAL	15.6%	1250	3113	WS/AP	15
FIBERGLASS LOUVER								15
FFJ-445	4"	45°	J-BLADE	37.6%	730	4390	WP/AP	15
FOJ-445	4"	45°	OPERABLE	40.2%	627	4030	–	15
PENTHOUSES								15
ECD-445-PH	4"	45°	CHEVRON	–	–	–	–	15
ECD-635-PH	6"	35°	CHEVRON	–	–	–	–	15
ECV-645-PH	6"	45°	VERTICAL CHEVRON	–	–	–	–	15
EFD-445-PH	4"	45°	DRAINABLE	–	–	–	–	15
EFD-635-PH	6"	35°	DRAINABLE	–	–	–	–	15
EFJ-445-PH	4"	45°	J-BLADE	–	–	–	–	15
EFJ-645-PH	6"	45°	J-BLADE	–	–	–	–	15
PEV-445	4"	45°	J-BLADE	–	–	–	–	15
ICC 500/FEMA GRILLES								15
XAV-545	5.5"	45°	HORIZONTAL-INVERTED-V	51.2%	680	5577	WP/AP	15
XCD-545	5.5"	45°	HORIZONTAL-CHEVRON	37.9%	1250	7575	WP/AP/W	15
XSV-845	8"	45°	HORIZONTAL-INVERTED-V	58.5%	755	–	–	15
EQUIPMENT SCREENS AND CANOPY								16

Cover Images:

Left Photo: DuPont Fabros | Ashburn, VA | ECD-545
Center Photo: Middle Earth Towers | Irvine, CA | EFJ-445
Right Photo: Hard Rock Hotel | Hollywood, FL | ECD-645-MD, ECV-645-MD
Background Photo: Detail of Frost Tower | Fort Worth, TX | EFD-637, EFJ-430

Left Louver: ECD-635 – Wind-Driven Rain – pg. 7
Right Louver: EFD-635 – Drainable – pg. 5

ANATOMY OF A LOUVER

A louver is an air termination or entry device composed of multiple blades which, when mounted in an opening, permits airflow but inhibits the ingress of other elements. The type of louver that is selected is dependent on the application, geographic location, and local building codes.



HEAD
Top of the louver and completes the connection between the jambs.

DRIP
Top of the louver that fills the gap between head and top blade. Equipped with a drainable channel.

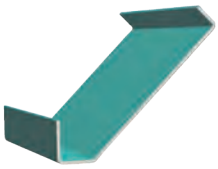
JAMB
Structural support for the blades as well as channels water for drainable louvers.

BLADE
Varies in shapes, sizes and blade angles to serve different purposes.

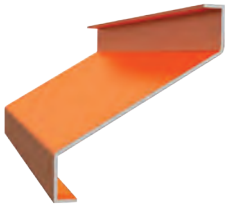
BLADE ANGLE
The lower or flatter the blade angle, the easier it is to get air into the building.

SILL
Base of the louver.

BLADE STYLES



DRAINABLE BLADE
A drainable blade is equipped with a gutter to channel water toward the jambs of the louver and away from the airflow.



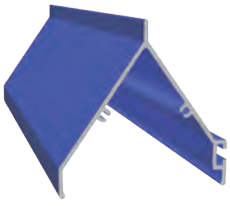
J-BLADE
The J-Blade has a smooth flat profile devoid of a gutter on the leading edge.



K-BLADE
The K-Blade has an offset step in its profile acting as a rain trap. The K style blade can be drainable or non-drainable.



CHEVRON BLADE
The Chevron blade combines closed sight lines and drainability. With a C shaped hook at the top, it is the primary choice to stop wind-driven rain.



INVERTED Y BLADE
An Inverted Y or V blade is intended for sight proof applications. With the closed sight-lines, sacrifices in free area performance and greater pressure drop are made.

NON-DRAINABLE LOUVERS

Non-drainable louvers offer value and economy for exhaust applications or intake conditions where protection against water filtration is not critical. Optional hidden mullions provide a continuous blade appearance.

INTAKE/EXHAUST



EEI-430



EFE-430-HP



EFJ-245
EFJ-445
EFJ-645
EFK-445



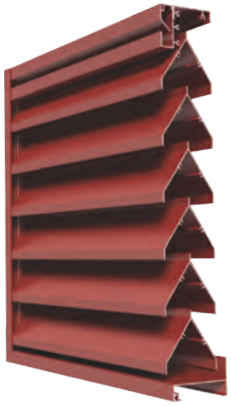
EFJ-430
EFK-430



EFJ-437-HP
EFJ-637-HP



EFJ-437
EFK-437
EFK-637



EFY-245
EFY-445

MODEL	DEPTH	BLADE ANGLE	BLADE STYLE	FREE AREA (%) (sq.ft.)	BEGINNING POINT OF WATER PENETRATION RATINGS VELOCITY (fpm)	AIRFLOW (cfm)	PRESSURE DROP (in.wg.)	AMCA CERT.*
EEI-430	4"	30°	INTAKE – EXHAUST	VARIES	–	–	–	–
EFE-430-HP	4"	30°	EXHAUST	64.5% 10.3	–	–	–	–
EFJ-245	2"	45°	J-BLADE	45.8% 7.3	942	6911	0.20	–
EFJ-430	4"	30°	J-BLADE	59.6% 9.6	1002	8549	0.16	–
EFJ-437	4"	37.5°	J-BLADE	55.5% 8.9	772	6853	0.09	WP/AP
EFJ-437-HP	4"	37.5°	HIGH PERFORMANCE J	56.3% 9.0	912	8220	0.14	WP/AP
EFJ-445	4"	45°	J-BLADE	50.1% 8.1	781	6317	0.10	WP/AP
EFJ-637-HP	6"	37.5°	HIGH PERFORMANCE J	56.3% 9.0	915	8226	0.12	–
EFJ-645	6"	45°	J-BLADE	50.6% 8.1	1155	9359	0.18	–
EFK-430	4"	30°	K-BLADE	59.6% 9.6	1002	8549	0.16	–
EFK-437	4"	37.5°	K-BLADE	55.5% 8.9	772	6853	0.09	WP/AP
EFK-445	4"	45°	K-BLADE	50.1% 8.1	781	6317	0.10	WP/AP
EFK-637	6"	37.5°	K-BLADE	54.6% 8.7	1157	10102	0.17	–
EFY-245	2"	45°	INVERTED Y	30.8% 4.9	679	3531	0.34	–
EFY-445	4"	45°	INVERTED Y	34.8% 5.6	834	4649	0.42	–

*AMCA CERT LEGEND: | AP Air Performance | WP Water Penetration

DRAINABLE LOUVERS

Drainable blade louvers help prevent water penetration on non-wind-driven rain applications by collecting water in frame and downspouts and away from airflow.

DUAL-DRAINABLE LOUVERS



EDD-445



EDD-637



EFD-245
EFD-445
EFD-645



EFD-437
EFD-637



EFD-435
EFD-635



ERD-645
Recessed Drainable Blade

MODEL	DEPTH	ANGLE	BLADE STYLE	FREE AREA (%) (sq.ft.)	BEGINNING POINT OF WATER PENETRATION RATINGS VELOCITY (fpm)	AIRFLOW (cfm)	PRESSURE DROP (in.wg.)	AMCA CERT.*
EDD-445	4"	45°	DUAL-DRAINABLE	50.4% 8.1	1026	8311	0.16	WP/AP
EDD-637	6"	37.5°	DUAL-DRAINABLE	57.7% 9.2	1113	10242	0.15	WP/AP
EFD-245	2"	45°	DRAINABLE	46.1% 7.4	868	6404	0.12	WP/AP
EFD-435	4"	35°	DRAINABLE	58.1% 9.3	966	8984	0.12	WP/AP
EFD-437	4"	37.5°	DRAINABLE	58.1% 9.3	903	8398	0.13	WP/AP
EFD-445	4"	45°	DRAINABLE	50.4% 8.1	1026	8311	0.16	WP/AP
EFD-635	6"	35°	DRAINABLE	60.7% 9.7	1250	12138	0.20	WP/AP
EFD-637	6"	37.5°	DRAINABLE	57.5% 9.2	1113	10242	0.15	WP/AP
EFD-645	6"	45°	DRAINABLE	54.6% 8.7	1009	8811	0.13	WP/AP
ERD-645	6"	45°	RECESSED-DRAINABLE	50.6% 8.1	990	8059	0.11	–

*AMCA CERT LEGEND: | AP Air Performance | WP Water Penetration

MIAMI-DADE/HURRICANE LOUVERS

- AMCA Certified
- AMCA 540/550 Listed
- Florida Building Code Approved (2020)

Miami-Dade/Hurricane louvers are approved for use in high-velocity hurricane zones, specifically in Miami-Dade and Broward counties in Florida. They are tested to multiple standards that are designed to simulate severe weather conditions. They must withstand high wind speeds, water penetration and debris impact.

ECD-545-MD



ECV-345-MD
ECV-545-MD
ECV-645-MD

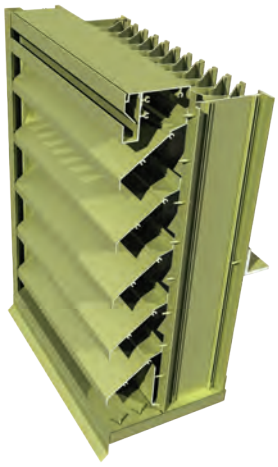


EFD-635-MD





EDV-545-MD



EFJ-937-MD



EXA-645-MD

MODEL	DEPTH	BLADE ANGLE	FREE AREA (%) (sq.ft.)	WIND-DRIVEN RAIN TEST: WIND VELOCITY (mph)	RAINFALL (in/Hr)	AIRFLOW (cfm)	CORE VELOCITY (fpm)	EFFECTIVENESS RATIO (%)	CLASS	BEGINNING POINT OF WATER PENETRATION RATINGS: VELOCITY (fpm)	AIRFLOW (cfm)	PRESSURE DROP (in.wg.)	AMCA 540	AMCA 550	AMCA CERT.*
ECD-545-MD HORIZONTAL BLADE	5"	45°	41.9% 6.7	29 50	3 8	7361 8478	684 787	99.4 96.0	A B	1250	8388	0.21	●	●**	WP/AP/W
ECV-345-MD VERTICAL BLADE	3"	45°	46.9% 7.5	29 50	3 8	10616 10594	986 984	100 100	A A	1250	9375	0.19	●	●	WP/AP/W
ECV-545-MD VERTICAL BLADE	5"	45°	54.8% 8.8	29 50	3 8	10601 10605	985 985	100 99.7	A A	1250	10963	0.28	●	●	WP/AP/W
ECV-645-MD VERTICAL BLADE	6"	45°	46.0% 7.4	– 50	– 8	– 10390	– 965	– 100	– A	1250	9250	0.15	●	●	WP/AP/W
EDV-545-MD DUAL BLADE	5"	45°	50.2% 8.0	29 50	3 8	10591 10600	984 985	100 99.8	A A	1250	10038	0.55	●	●	WP/AP/W
EFD-635-MD HORIZONTAL BLADE	6"	35°	60.9% 9.7	– –	– –	– –	– –	– –	– –	1250	12175	0.20	●	–	WP/AP
EFJ-937-MD DUAL BLADE	9"	37.5°	53.9% 8.6	29 50	3 8	10640 9599	988 892	100 99.0	A A	1250	10775	0.48	●	●	WP/AP/W
EXA-645-MD COMBO BLADE	6"	37.5°-45°	48.1% 7.7	– –	– –	– –	– –	– –	– –	1076	8281	0.12	●	●***	WP/AP

*AMCA CERT LEGEND: | AP Air Performance | AL Air Leakage | W Wind-Driven Rain | WP Water Penetration

** Applies when the CD-51 damper option is utilized and the damper is in the closed position. ***Applies with operable blades in the closed position.

SEVERE DUTY LOUVERS
WIND-DRIVEN RAIN

Wind-driven rain louvers allow air intake and exhaust while preventing water from entering the building through building openings during severe storms. Commonly used in geographic locations with moderate to severe rain events.

- AMCA Certified
- AMCA 540 Listed

HORIZONTAL WIND-DRIVEN RAIN



ECD-245



ECD-445
ECD-545



ECD-635



ECD-745

FLORIDA BUILDING CODE APPROVED 2020



EFD-437-FL
FLORIDA BUILDING CODE APPROVED (2020)

DRAINABLE FEMA LOUVER GRILLE



XCD-545
DRAINABLE BLADE FEMA GRILLE

PERFORMANCE DATA ON PAGE 15

MODEL	DEPTH	BLADE ANGLE	FREE AREA (%) (sq.ft.)		WIND-DRIVEN RAIN TEST: WIND VELOCITY (mph)	RAINFALL (in/Hr)	AIRFLOW (cfm)	CORE VELOCITY (fpm)	EFFECTIVENESS RATIO (%)	CLASS	BEGINNING POINT OF WATER PENETRATION RATINGS: VELOCITY (fpm)	AIRFLOW (cfm)	PRESSURE DROP (in.wg.)	AMCA 540	AMCA CERT.*
ECD-245	2"	45°	41.3%	6.6	29 50	3 8	2123 3011	197 280	99.0 95.0	A B	1006	6649	0.27	–	WP/AP/W
ECD-445	4"	45°	42.7%	6.8	29 50	3 8	4274 3088	397 195	99.0 99.0	A A	1250	8538	0.32	–	WP/AP/W
ECD-545	5"	45°	46.3%	7.4	29 50	3 8	9276 10502	862 975	99.4 95.3	A B	1250	9250	0.24	–	WP/AP/W
ECD-635	6"	35°	50.3%	8.0	29 50	3 8	8473 7441	787 691	99.0 99.4	A A	1250	10050	0.33	–	WP/AP/W
ECD-745	7"	45°	50.6%	8.1	29 50	3 8	6260 5312	581 493	99.6 99.2	A A	1218	9866	0.57	–	WP/AP/W
EFD-437-FL	4"	37.5°	55.3%	8.9	–	–	–	–	–	–	1029	9105	0.16	●	WP/AP

*AMCA CERT LEGEND: | AP Air Performance | W Wind-Driven Rain | WP Water Penetration

SEVERE DUTY LOUVERS
WIND-DRIVEN RAIN

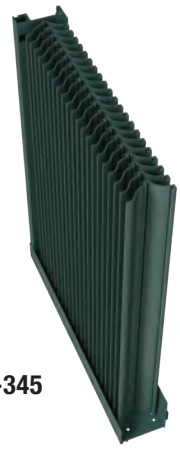
- Thinline, Vertical and Dual-Module Models Available
- Florida Building Code Approved
- AMCA 540/550 Listed

One of the benefits of wind-driven rain louvers is that they are sight proof. The tight blade spacing and steep blade angles of these louvers force water to collect on the blade surface where it is channeled into vertical downspouts.

VERTICAL WIND-DRIVEN RAIN



ECV-245



ECV-345



ECV-445



ECV-545



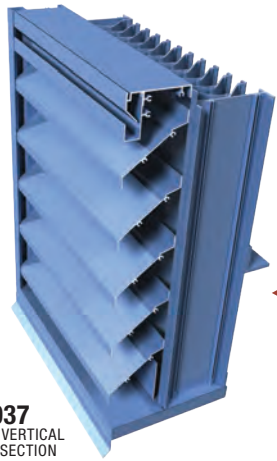
ECV-645

THE ECV-545 VERTICAL BLADE LOUVER FEATURES AMCA 540/550 LISTING AND AND A HIGH FREE AREA OF 54.8%

DUAL-MODULE



EDV-545
J BLADE WITH VERTICAL BLADE REAR SECTION



EFJ-937
J BLADE WITH VERTICAL BLADE REAR SECTION

THE EFJ-937 9" DUAL MODULE LOUVER FEATURES AMCA 540/550 LISTING AND IS A PERFECT SOLUTION TO COMBINE HORIZONTAL BLADE AESTHETICS WITH HIGH VELOCITY WIND-DRIVEN RAIN PROTECTION

MODEL	DEPTH	BLADE ANGLE	FREE AREA (%)	(sq.ft.)	WIND-DRIVEN RAIN TEST: WIND VELOCITY (mph)	RAINFALL (in/Hr)	AIRFLOW (cfm)	CORE VELOCITY (fpm)	EFFECTIVENESS RATIO (%)	CLASS	BEGINNING POINT OF WATER PENETRATION RATINGS: VELOCITY (fpm)	AIRFLOW (cfm)	PRESSURE DROP (in.wg.)	AMCA 540	AMCA 550	AMCA CERT.*
ECV-245	2"	45°	41.5%	6.6	29 50	3 8	6371 4300	592 399	99.6 99.3	A A	1250	8299	0.42	–	–	WP/AP
ECV-345	3"	45°	46.9%	7.5	29 50	3 8	10616 10594	986 984	100 100	A A	1250	9375	0.19	●	●	WP/AP/W
ECV-445	4"	45°	42.9%	6.9	29 50	3 8	7343 4350	682 404	99.5 99.4	A A	1250	8575	0.30	–	–	AP/W
ECV-545	5"	45°	54.8%	8.8	29 50	3 8	10601 10605	985 985	100 99.7	A A	1250	10963	0.28	●	●	WP/AP/W
ECV-645	6"	45°	46.0%	7.4	– 50	– 8	– 10390	– 965	– 100	– A	1250	9250	0.15	●	●	WP/AP/W
EDV-545	5"	45°	50.2%	8.0	29 50	3 8	10591 10600	984 985	100 99.8	A A	1250	10038	0.55	●	●	WP/AP/W
EFJ-937	9"	37°	53.9%	8.6	29 50	3 8	10640 9599	988 892	100 99.0	A A	1250	10775	0.48	●	●	WP/AP/W

*AMCA CERT LEGEND: | AP Air Performance | W Wind-Driven Rain | WP Water Penetration

LOUVER TESTING LABORATORY

Pottorff's State of the Art Wind-Driven Rain and Water Penetration test rig, constructed in accordance with AMCA Standard 500-L, allows us to accurately measure louver water infiltration. Our chamber is designed to feature storm conditions (wind-blown rain), still air (no wind) conditions, as well as Air Performance; better known as "Pressure Drop" or "Pressure Loss".

- **WIND-DRIVEN RAIN TEST (WDR)** – Rates a louver's ability to mitigate water entrainment under storm conditions, while also simulating various active HVAC system ventilation rates through the test sample. Louvers are generally subjected to two wind speeds, 29 and 50mph, which are directed at the face of the sample. The test features a wind-driven rainfall rate of up to 8" per hour.

- **WATER PENETRATION TEST (WP)** – Often called "Still Air Water Penetration" determines what is known throughout the industry as "the beginning point of water penetration" and simulates both a moderate, vertical rainfall as well as building runoff. The Beginning Point of Water Penetration is defined by AMCA as .01 ounces of water per square foot of louver Free Area during a 15-minute test.

- **AIR PERFORMANCE (AP)** – Pottorff's Test Chamber has the ability to accurately measure louver Pressure Drop at various airflow rates which is known as Air Performance Testing. The resulting ratings in simple terms are used to compare the difficulty airflow (rated in pressure differential) will encounter when passing through a louver with a given Free Area and blade design. Louvers are generally tested in both intake and exhaust configurations.

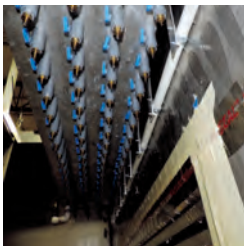
WETTED WALL MANIFOLD
Manifold used to simulate water runoff on the side of a building during Water Penetration Testing.

VENTILATION FAN
With capacity up to 24,000 cfm, our ventilation fan is able to recreate most real world HVAC system airflows during product testing.



AIRFLOW MEASUREMENT
Using calibrated nozzles with known diameters and a differential pressure, we can accurately measure airflow during testing.

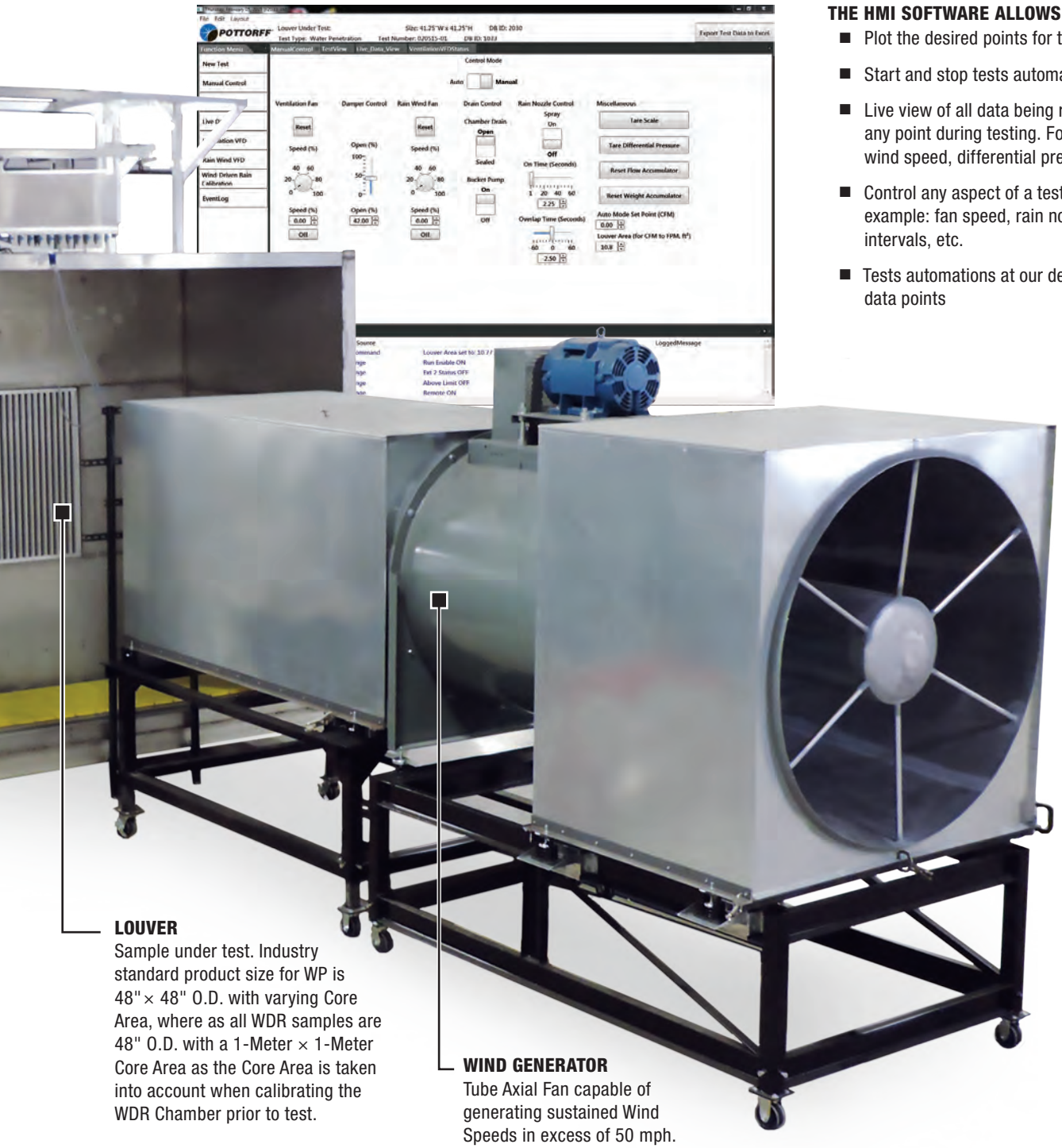
COLLECTION CHAMBER
The collection chamber allows us to collect and measure water that might penetrate louver samples during both WDR and Water Penetration Testing.



RAINFALL MANIFOLD
Water basin and nozzles used to simulate 4" per hour vertical rain during the Water Penetration Test.



WDR SPRAY NOZZLES
Specialty nozzles, calibrated and used to generate a uniform spray pattern during WDR for rainfall rates for both 3" per hour and 8" per hour.



THE HMI SOFTWARE ALLOWS US TO:

- Plot the desired points for testing
- Start and stop tests automatically
- Live view of all data being retrieved at any point during testing. For example: wind speed, differential pressure, etc.
- Control any aspect of a test; for example: fan speed, rain nozzle intervals, etc.
- Tests automations at our desired data points

LOUVER
Sample under test. Industry standard product size for WP is 48"× 48" O.D. with varying Core Area, where as all WDR samples are 48" O.D. with a 1-Meter × 1-Meter Core Area as the Core Area is taken into account when calibrating the WDR Chamber prior to test.

WIND GENERATOR
Tube Axial Fan capable of generating sustained Wind Speeds in excess of 50 mph.

OPERABLE LOUVERS

Operable louvers feature operable blades that allow positive shutoff protection of air intake and exhaust openings. They can be controlled manually with a pull chain, hand quadrant or hand crank. They can also be controlled automatically with electric or pneumatic actuators.

- 90-Degree Blade Model Available
- Formed Metal Model Available

OPERABLE EXTRUDED ALUMINUM



EOD-445



EOD-637



EOJ-445



EOJ-637



EOJ-690

THE EOJ-690 IS A HIGH FREE-AREA OPERABLE LOUVER, AND IS AN IDEAL SOLUTION FOR THE AIRFLOW REQUIREMENTS OF DISTRIBUTION WAREHOUSES AND DATA CENTERS

FORMED METAL OPERABLE



SOJ-445

MODEL	DEPTH	BLADE ANGLE	BLADE STYLE	MATERIAL	FREE AREA (%) (sq.ft.)	BEGINNING POINT OF WATER PENETRATION RATINGS VELOCITY (fpm)	AIRFLOW (cfm)	PRESSURE DROP (in.wg.)	AMCA CERT.*
EOD-445	4"	45°	DRAINABLE	EXTRUDED ALUMINUM	43.1% 6.9	1024	7096	0.16	–
EOD-637	6"	37.5°	DRAINABLE	EXTRUDED ALUMINUM	53.9% 8.6	1136	9801	0.15	–
EOJ-445	4"	45°	J-BLADE	EXTRUDED ALUMINUM	45.9% 7.3	683	5016	0.10	–
EOJ-637	6"	37.5°	J-BLADE	EXTRUDED ALUMINUM	56.3% 9.0	810	7282	0.12	–
EOJ-690	6"	90°	J-BLADE	EXTRUDED ALUMINUM	68.5% 10.96	748	8325	0.19	AP
SOJ-445	4"	45°	J-BLADE	GALVANNEALED STEEL	46.9% 7.5	775	5813	0.14	–

*AMCA CERT LEGEND: | AP Air Performance

COMBINATION LOUVERS

EBE and EBI louvers feature stationary louver blades and an integral gravity operated backdraft damper to protect openings in exterior walls. The EXA and EXD models feature stationary drainable blades and an integral control damper.

CONCEALED MOTOR OPTION

OPERABLE



EOD-445-CM
EOD-637-CM
EOJ-445-CM
EOJ-637-CM

COMBINATION



EXA-645-CM
EXD-437-CM
EXD-645-CM

POTTORFF'S CONCEALED MOTOR LOUVERS ARE DESIGNED TO BE USED WHERE ACCESS TO THE ACTUATOR AND HARDWARE NEEDS TO BE CONTROLLED OR RESTRICTED.

THE ACTUATOR IS CONCEALED IN THE SILL OF THE LOUVER.

COMBINATION EXTRUDED ALUMINUM



EBE-445



EBI-445



EXA-645



EXD-437
EXD-645

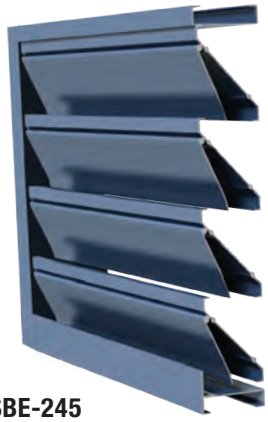
CLASS 1A Leakage

MODEL	DEPTH	BLADE ANGLE		FREE AREA (%) (sq.ft.)	BEGINNING POINT OF WATER PENETRATION RATINGS VELOCITY (fpm)	AIRFLOW (cfm)	PRESSURE DROP (in.wg.)	AMCA CERT.*
EBE-445	4"	45°	J-BD-EXHAUST	49.4% 7.9	689	5396	0.10	–
EBI-445	4"	45°	J-BD-INTAKE	49.4% 7.9	689	5396	0.10	–
EXA-645	6"	37.5°– 45°	COMBINATION	50.4% 8.1	1085	8756	0.11	WP/AP/AL
EXD-437	4"	37.5°	COMBINATION	43.0% 6.9	1172	8134	0.17	WP/AP
EXD-645	6"	37.5°– 45°	COMBINATION	44.4% 7.1	1050	7455	0.19	–

*AMCA CERT LEGEND: | AL Air Leakage | AP Air Performance | WP Water Penetration

FORMED METAL LOUVERS

Formed metal louvers are typically built with galvanized steel and offer an economic solution for basic ventilation applications. These louvers can also withstand corrosion in caustic environments.



SBE-245
SBE-445
SBI-445



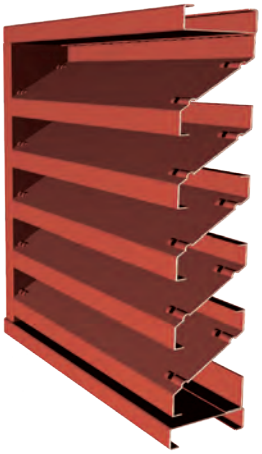
SFD-445



SFD-635



SFJ-245
SFJ-445
SFJ-645
SFK-445
SFK-645



SFJ-430
SFJ-630



SFV-445

MODEL	DEPTH	BLADE ANGLE	BLADE STYLE	FREE AREA (%) (sq.ft.)		BEGINNING POINT OF WATER PENETRATION RATINGS VELOCITY (fpm)	AIRFLOW (cfm)	PRESSURE DROP (in.wg.)
SBE-245	2"	45°	J-BD-EXHAUST	41.0%	6.6	383	2528	0.08
SBE-445	4"	45°	J-BD-EXHAUST	46.9%	7.5	775	5813	0.13
SBI-445	4"	45°	J-BD-INTAKE	46.9%	7.5	775	5813	0.14
SFD-445	4"	45°	DRAINABLE	53.1%	8.5	715	6092	0.11
SFD-635	6"	35°	DRAINABLE	61.7%	9.9	815	8044	0.08
SFJ-245	2"	45°	J-BLADE	42.0%	6.7	603	4040	0.06
SFJ-430	4"	30°	J-BLADE	51.0%	8.2	847	6945	0.13
SFJ-445	4"	45°	J-BLADE	48.0%	7.7	775	5991	0.13
SFJ-630	6"	30°	J-BLADE	65.2%	10.4	825	8580	0.08
SFJ-645	6"	45°	J-BLADE	50.0%	8.0	800	6400	0.09
SFK-445	4"	45°	K-BLADE	48.0%	7.7	775	5991	0.13
SFK-645	6"	45°	K-BLADE	50.0%	8.0	800	6400	0.09
SFV-445	4"	45°	CHEVRON	38.0%	6.1	600	3648	0.25

ACOUSTICAL LOUVERS

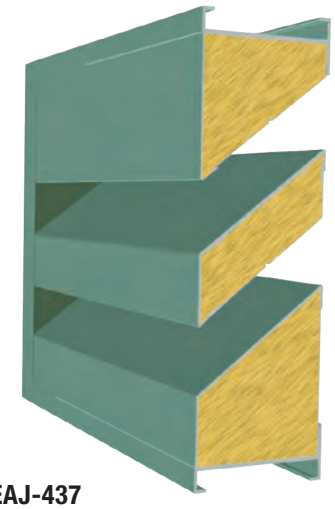
Acoustical louvers have blades packed with sound dampening material. They are used in areas where both ventilation and minimal sound levels are desired. Commonly used in ventilation systems in mechanical equipment rooms.



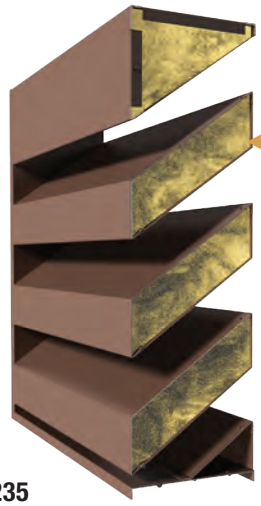
EAA-645
EAA-845



EAA-1245
FAA-1245



EAJ-437
EAJ-637



EAJ-1235

THE 12" EAJ-1235 IS AMCA CERTIFIED FOR WATER PENETRATION, SOUND AND AIR PERFORMANCE. IT IS AMCA 540 LISTED FOR IMPACT RESISTANCE.



SAJ-835
SAJ-1235

MODEL	DEPTH	BLADE ANGLE	BLADE STYLE	NOISE REDUCTION 125	250	500	1K	2K	4K	FREE AREA (%)	(sq.ft.)	BEGINNING POINT OF WATER PENETRATION RATINGS VELOCITY (fpm)	AIRFLOW (cfm)	PRESSURE DROP (in.wg.)	AMCA 540	AMCA CERT.*
EAA-645	6"	45°	INSULATED AIRFOIL	11	11	13	16	18	17	25.0%	4.0	1137	4541	0.06	–	–
EAA-845	8"	45°	INSULATED AIRFOIL	8	8	10	14	15	13	37.9%	6.1	649	3931	0.03	–	WP/AP
EAA-1245	12"	45°	INSULATED AIRFOIL	13	14	17	19	18	17	26.3%	4.2	999	4196	0.09	–	–
EAJ-437	4"	37°	INSULATED-J	11	10	12	17	18	17	33.7%	5.4	740	3992	0.06	–	–
EAJ-637	6"	37°	INSULATED-J	10	10	12	22	20	19	32.5%	5.2	890	4627	0.15	–	–
EAJ-1235	12"	35°	INSULATED-J	12	14	18	21	19	16	30.6%	4.9	924	4528	0.08	●	WP/S/AP
FAA-1245	12"	45°	FORMED-AIRFOIL	13	14	17	19	18	17	26.3%	4.2	999	4196	0.09	–	–
SAJ-835	8"	35°	FORMED-J	13	13	19	26	28	23	33.1%	5.3	808	4293	0.07	–	–
SAJ-1235	12"	35°	FORMED-J	12	14	18	21	19	16	30.6%	4.9	924	4528	0.08	–	WP/S/AP

*AMCA CERT LEGEND: | AP Air Performance | S Sound | WP Water Penetration

SPECIALTY PRODUCTS

Brick vents provide a permanent means of gravity ventilation for crawl spaces, hung ceilings, incinerator rooms, foundations, pipe spaces and corridors. Sand louvers are ideal for locations that feature wind-driven sand penetration. Penthouses typically serve as a gravity ventilator, fan discharge or fresh air intake cap, sight shield or pressure relief ventilator.

SPECIALTY LOUVERS



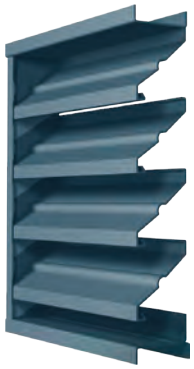
EBV-145
EBV-445
BRICK VENTS



EVS-422
SAND LOUVER



FOJ-445
OPERABLE
FIBERGLASS LOUVER



FFJ-445
FIBERGLASS LOUVER

PENTHOUSES



ECD-445-PH
ECD-635-PH
ECV-645-PH
EFD-445-PH
EFD-635-PH
EFJ-445-PH
EFJ-645-PH



PEV-445
ELEVATOR VENTILATION PENTHOUSE

ICC-500/FEMA GRILLES





XAV-545
UL WINDSTORM
RATED ASSEMBLY

XCD-545
UL WINDSTORM
RATED ASSEMBLY

BEST-IN-CLASS FREE AREA
51.2%@ 48" × 48"
DESIGN PRESSURE: 300 PSF

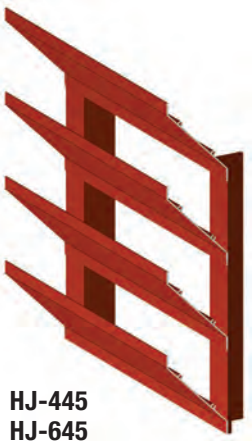
These grilles are designed in accordance with FEMA P320 and FEMA P361 guidelines for shelter and safe rooms. They offer protection against wind pressures and debris impacts from tornadoes and hurricanes.

MODEL	CONSTRUCTION	DEPTH	BLADE ANGLE	BLADE STYLE	FREE AREA (%) (sq.ft.)	AMCA CERT.*	BEGINNING POINT OF WATER PENETRATION RATINGS VELOCITY (fpm)	AIRFLOW (cfm)	PRESSURE DROP (in.wg.)
SPECIALTY LOUVERS									
EBV-145	ALUMINUM	1.5"	45°	J-BLADE	–	–	–	–	–
EBV-445	ALUMINUM	4"	45°	J-BLADE	–	–	–	–	–
EVS-422	ALUMINUM	4"	22°	VERTICAL	15.6% 2.5	WS/AP	1250	3113	0.22
FFJ-445	FIBERGLASS	4"	45°	J-BLADE	37.6% 6.0	WP/AP	730	4390	0.08
FOJ-445	FIBERGLASS	4"	45°	OPERABLE	40.2% 6.4	–	627	4030	0.07
PENTHOUSES									
ECD-445-PH	ALUMINUM	4"	45°	CHEVRON	–	–	–	–	–
ECD-635-PH	ALUMINUM	4"	45°	CHEVRON	–	–	–	–	–
ECV-645-PH	ALUMINUM	6"	35°	VERTICAL CHEVRON	–	–	–	–	–
EFD-445-PH	ALUMINUM	4"	45°	DRAINABLE	–	–	–	–	–
EFD-635-PH	ALUMINUM	6"	45°	DRAINABLE	–	–	–	–	–
EFJ-445-PH	ALUMINUM	4"	45°	J-BLADE	–	–	–	–	–
EFJ-645-PH	ALUMINUM	6"	45°	J-BLADE	–	–	–	–	–
PEV-445	ALUMINUM	4"	45°	J-BLADE	–	–	–	–	–
ICC 500/FEMA GRILLES									
XAV-545	ALUMINUM	5.5"	45°	INVERTED-V	51.2% 8.2	WP/AP	680	5577	0.17
XCD-545	ALUMINUM	5.5"	45°	CHEVRON	37.9% 6.1	WP/AP/W	1250	7575	0.28
XSV-845	STEEL	8"	45°	INVERTED-V	58.5% 9.4	–	–	–	–

*AMCA CERT LEGEND: | AP Air Performance | W Wind-Driven Rain | WS Wind-Driven Sand | WP Water Penetration

EQUIPMENT SCREENS & CANOPY

Whether the design calls for total sight concealment, partial screening, high-volume airflow, specialty shapes, or thermal shading, our sight screens are engineered to meet the most stringent project parameters while satisfying our customer's aesthetic requirements.



HJ-445
HJ-645



HT-401



HZ-200



VT-250



VT-654



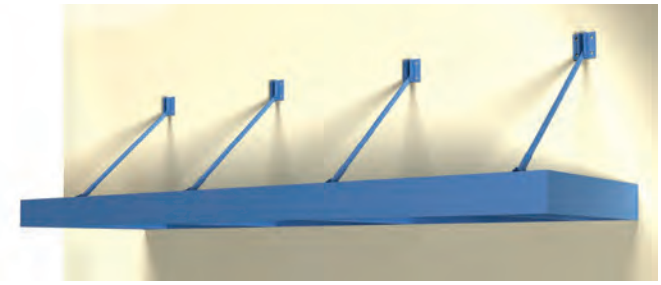
VV-400



VV-500

MODEL	DEPTH	BLADE ANGLE	BLADE	FREE AREA (%) (sq.ft.)
HJ-445	4"	45°	HORIZONTAL-INVERTED J	52.9% 8.5
HJ-645	6"	45°	HORIZONTAL-INVERTED J	48.9% 8.0
HT-401	4"	–	HORIZONTAL-AIRFOIL TUBE	60.0% 9.6
HZ-200	2.25"	45°	HORIZONTAL-CLADDING	19.4% 3.1
VT-250	2.5"	–	VERTICAL-CLADDING	24.4% 3.9
VT-654	4"	–	VERTICAL-CLADDING	21.0% 3.4
VV-400	4"	–	VERTICAL-V	38.8% 6.2
VV-500	5"	–	VERTICAL-V	53.8% 8.6

ACP-802 CANOPY



The **ACP-802** is designed to provide an aesthetic style to a building's exterior while keeping the building cool.

Minimum Size: Single Section: 36" wide × 18" projection
Maximum Size: Single Section: 120" × 48"
Multiple Section: Unlimited Width × 48"