

MODEL SED-4

HIGH PERFORMANCE FIXED LOUVER

STANDARD CONSTRUCTION:

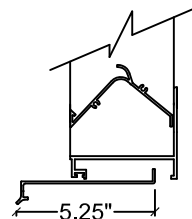
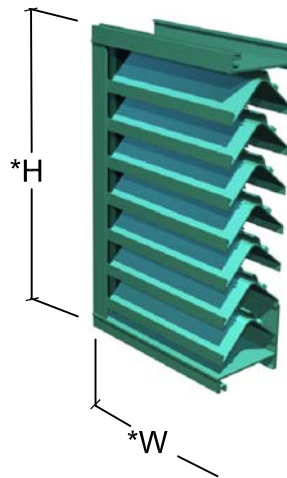
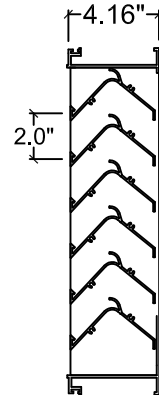
- Frame:** .081 Extruded Aluminum, 4.16" Deep
- Blade:** .081 Extruded Aluminum on approximately 2" centers
- Birdscreen:** .75" x .051" Flattened Aluminum in removable frame. Screen is mounted as standard on inside (rear) as looking from exterior of building.
- Finish:** Mill Aluminum (Std.)
- Minimum Size:** 12 x12
- Maximum Single Section:** 120"w x 84"h or 84"w x 120"h
- Note:** Drainable blade louvers should be limited to 10' maximum section widths (no more than 10' between vertical downspouts) to enable the drainable design to function effectively.

OPTIONS:

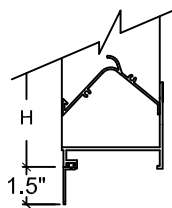
- Flanged Frame (1.50" std.), (1" std for shapes R_)
- Custom Flange (1", 2", or 3"), (1.5", 2", or 3" for shapes R_)
- Extended Sill
- Glazing Adapter (.50" or .75")
- Insect Screen (Other Screens Available, See Screen Page)
- Filter Racks (no screen)
- Security Bars
- Hinged Sub Frame
- Welded Construction (Wind Load +/- 50 psf)
- Blank-off, Alum., non-insulated, no screen, non-removeable
- Blank-off, Alum., non-insulated, with bird screen or insect screen
- Blank-off, Alum., insulated double wall, with bird screen, removable
- Blank-off, Alum., insulated double wall, no screen, non-removeable

AVAILABLE FINISHES:

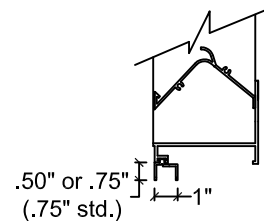
- Powder Polyester TGIC** (2 coats) baked on at 410°F, 2.5 to 3.5 mils Meets AAMA-2603 Standards
- Powder Super durable polyester** (2 coats) baked on at 410°F, 2.5 to 3.5 mils Meets AAMA-2604-05 Standards
- Acrylic baked enamel** (ACRA-BOND® ULTRA) by AkzoNobel baked on at 350°F, 0.8 to 1.2 mils dry Meets AAMA-2603 Standards
- Kynar®** (ALUM*A*STAR®) 2 coats by AkzoNobel baked on at 450°F, 1.2 to 1.6 mils dry Meets AAMA-2604-05 Standards
- Kynar 500®** or **HYLAR® 5000 70% TRINAR®** (2 coats) by AkzoNobel baked on at 450°F, 1.2 to 1.6 mils dry, Meets AAMA-2605-05 Standards
- Kynar 500®** or **HYLAR® 5000 (70% Tri-Escent II)** (2 coats) by AkzoNobel, a superior finish to other metallic or anodized finishes. A blend of mica, ceramic, and inorganic pigments creates subtle yet dazzling design that goes beyond metallic color without the requirement of a clear coat. 14 standard colors - custom colors available. Baked on at 415°F, 1.4 to 1.8 mils dry, meets AAMA 2605-05.
- Clear Anodize 204 R-1 Class II** (AA-C22A31)(0.4 to 0.7 mil)
- Clear Anodize 215 R-1 Class I** (AA-C22A41)(>0.7 mil)
- Integral Color Anodize** (AA-C22A42)(>0.7 mil)
 - Clear coat available for all above finishes.
 - Hylar® 5000 is a registered trademark of Solvay Solexis, Inc.
 - Kynar® 500 is a registered trademark of Arkema.
 - ALUM*A*STAR® 50 and TRINAR® are registered trademarks of AkzoNobel
 - ACRA-BOND® ULTRA is a registered trademark of AkzoNobel



OPTIONAL EXTENDED SILL
(except R_ Shapes, 1" optional std)



OPTIONAL FLANGE



OPTIONAL GLAZING ADAPTER

*Width and Height dimensions are approximately 1/4" under listed size.

Due to continuing research, United Enertech reserves the right to change specifications without notice.

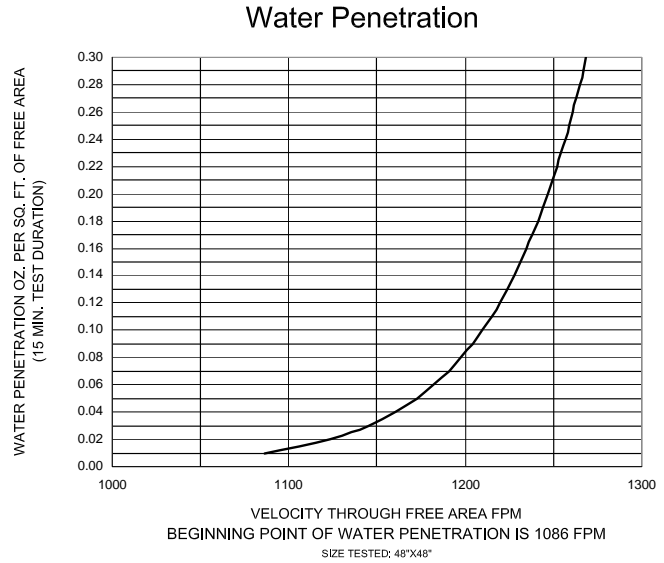
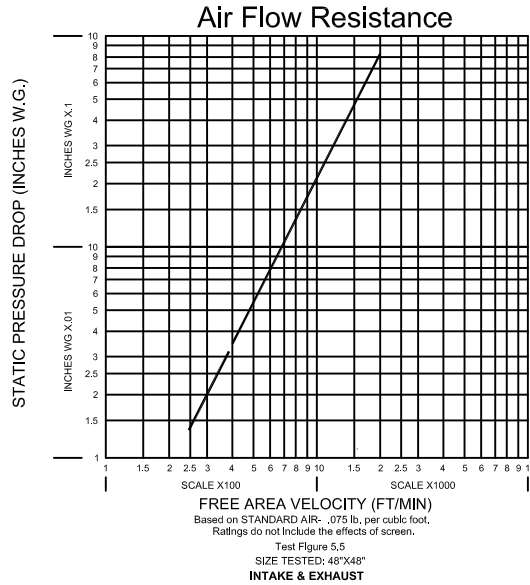


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MODEL SED-4 (Drainable Blade w/ Jamb Gutters & Downspouts)

| | | | | | |
|------------------|------------------------|-----------------------------|----------------|---------------------|--------------------------|
| DRAWN BY: CLJ | DATE: December 2001 | REV. DATE: November 2015 | REV. NO. 10 | APPROVED BY: BGT | DWG. NO.: A-18 |
|------------------|------------------------|-----------------------------|----------------|---------------------|--------------------------|

Model SED-4 Louver Performance Data



SED-4 FREE AREA IN SQ. FT.

| Louver Height Inches | Width - Inches | | | | | | | | | | | | | | | | Louver Height Inches | | | |
|----------------------|----------------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|-------|-------|-----|
| | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 84 | 90 | 96 | 102 | | 108 | 114 | 120 |
| 12 | 0.17 | 0.28 | 0.38 | 0.48 | 0.59 | 0.69 | 0.80 | 0.90 | 1.00 | 1.11 | 1.21 | 1.32 | 1.42 | 1.52 | 1.63 | 1.73 | 1.84 | 1.94 | 2.04 | 12 |
| 18 | 0.34 | 0.55 | 0.76 | 0.97 | 1.17 | 1.38 | 1.59 | 1.80 | 2.01 | 2.21 | 2.42 | 2.63 | 2.84 | 3.05 | 3.25 | 3.46 | 3.67 | 3.88 | 4.09 | 18 |
| 24 | 0.51 | 0.83 | 1.14 | 1.45 | 1.76 | 2.07 | 2.39 | 2.70 | 3.01 | 3.32 | 3.63 | 3.95 | 4.26 | 4.57 | 4.88 | 5.19 | 5.51 | 5.82 | 6.13 | 24 |
| 30 | 0.68 | 1.10 | 1.52 | 1.93 | 2.35 | 2.76 | 3.18 | 3.60 | 4.01 | 4.43 | 4.84 | 5.26 | 5.68 | 6.09 | 6.51 | 6.92 | 7.34 | 7.76 | 8.17 | 30 |
| 36 | 0.86 | 1.38 | 1.90 | 2.42 | 2.94 | 3.46 | 3.98 | 4.50 | 5.02 | 5.54 | 6.06 | 6.58 | 7.10 | 7.62 | 8.14 | 8.66 | 9.18 | 9.70 | 10.22 | 36 |
| 42 | 1.03 | 1.65 | 2.28 | 2.90 | 3.52 | 4.15 | 4.77 | 5.40 | 6.02 | 6.64 | 7.27 | 7.89 | 8.52 | 9.14 | 9.76 | 10.39 | 11.01 | 11.64 | 12.26 | 42 |
| 48 | 1.20 | 1.93 | 2.65 | 3.38 | 4.11 | 4.84 | 5.57 | 6.29 | 7.02 | 7.75 | 8.48 | 9.21 | 9.93 | 10.66 | 11.39 | 12.12 | 12.85 | 13.57 | 14.30 | 48 |
| 54 | 1.37 | 2.20 | 3.03 | 3.87 | 4.70 | 5.53 | 6.36 | 7.19 | 8.03 | 8.86 | 9.69 | 10.52 | 11.35 | 12.19 | 13.02 | 13.85 | 14.68 | 15.51 | 16.35 | 54 |
| 60 | 1.54 | 2.48 | 3.41 | 4.35 | 5.28 | 6.22 | 7.16 | 8.09 | 9.03 | 9.96 | 10.90 | 11.84 | 12.77 | 13.71 | 14.64 | 15.58 | 16.52 | 17.45 | 18.39 | 60 |
| 66 | 1.71 | 2.75 | 3.79 | 4.83 | 5.87 | 6.91 | 7.95 | 8.99 | 10.03 | 11.07 | 12.11 | 13.15 | 14.19 | 15.23 | 16.27 | 17.31 | 18.35 | 19.39 | 20.43 | 66 |
| 72 | 1.88 | 3.03 | 4.17 | 5.31 | 6.46 | 7.60 | 8.75 | 9.89 | 11.03 | 12.18 | 13.32 | 14.47 | 15.61 | 16.75 | 17.90 | 19.04 | 20.19 | 21.33 | 22.47 | 72 |
| 78 | 2.05 | 3.30 | 4.55 | 5.80 | 7.05 | 8.29 | 9.54 | 10.79 | 12.04 | 13.29 | 14.53 | 15.78 | 17.03 | 18.28 | 19.53 | 20.77 | 22.02 | 23.27 | 24.52 | 78 |
| 84 | 2.23 | 3.58 | 4.93 | 6.28 | 7.63 | 8.99 | 10.34 | 11.69 | 13.04 | 14.39 | 15.75 | 17.10 | 18.45 | 19.80 | 21.15 | 22.51 | 23.86 | 25.21 | 26.56 | 84 |
| 90 | 2.40 | 3.85 | 5.31 | 6.76 | 8.22 | 9.68 | 11.13 | 12.59 | 14.04 | 15.50 | 16.96 | 18.41 | 19.87 | 21.32 | 22.78 | 24.24 | 25.69 | 27.15 | 28.60 | 90 |
| 96 | 2.57 | 4.13 | 5.69 | 7.25 | 8.81 | 10.37 | 11.93 | 13.49 | 15.05 | 16.61 | 18.17 | 19.73 | 21.29 | 22.85 | 24.41 | 25.97 | 27.53 | 29.09 | 30.65 | 96 |
| 102 | 2.74 | 4.40 | 6.07 | 7.73 | 9.39 | 11.06 | 12.72 | 14.39 | 16.05 | 17.71 | 19.38 | 21.04 | 22.71 | 24.37 | 26.03 | 27.70 | 29.36 | 31.03 | 32.69 | 102 |
| 108 | 2.91 | 4.68 | 6.45 | 8.21 | 9.98 | 11.75 | 13.52 | 15.29 | 17.05 | 18.82 | 20.59 | 22.36 | 24.13 | 25.89 | 27.66 | 29.43 | 31.20 | 32.97 | 34.73 | 108 |
| 114 | 3.08 | 4.95 | 6.83 | 8.70 | 10.57 | 12.44 | 14.31 | 16.19 | 18.06 | 19.93 | 21.80 | 23.67 | 25.55 | 27.42 | 29.29 | 31.16 | 33.03 | 34.91 | 36.78 | 114 |
| 120 | 3.25 | 5.23 | 7.20 | 9.18 | 11.16 | 13.13 | 15.11 | 17.08 | 19.06 | 21.04 | 23.01 | 24.99 | 26.96 | 28.94 | 30.92 | 32.89 | 34.87 | 36.84 | 38.82 | 120 |

Wind Driven Rain Performance -AMCA 500-L-

Test size 1m x 1m(39"x39")core
41 1/2" w x 41" h Nominal(1.05m x 1.04m)

| 75 mm/h (3 in/h) Rainfall & 13 m/s (29 mph) Wind Velocity | | | | |
|---|--------------------|------------------------------|---------------------|--------------------------|
| Core Velocity fpm (m/s) | Airflow cfm (m³/s) | Free Area Velocity fpm (m/s) | Effectiveness Ratio | AMCA Effectiveness Class |
| 0 (0.0) | 0 (0.00) | 0 (0.0) | 97.9 | B |
| 126 (0.6) | 1356 (0.64) | 243 (1.2) | 96.1 | B |
| 210 (1.1) | 2260 (1.07) | 406 (2.1) | 95.2 | B |
| 288 (1.5) | 3100 (1.46) | 557 (2.8) | 94.4 | C |
| 379 (1.9) | 4080 (1.93) | 732 (3.7) | 92.9 | C |
| 472 (2.4) | 5081 (2.40) | 912 (4.6) | 91.6 | C |
| 594 (3.0) | 6394 (3.02) | 1148 (5.8) | 87.4 | C |
| 676 (3.4) | 7276 (3.43) | 1306 (6.6) | 85.7 | C |

| 202.4 mm/h (8 in/h) Rainfall & 22 m/s (50 mph) Wind Velocity | | | | |
|--|--------------------|------------------------------|---------------------|--------------------------|
| Core Velocity fpm (m/s) | Airflow cfm (m³/s) | Free Area Velocity fpm (m/s) | Effectiveness Ratio | AMCA Effectiveness Class |
| 0 (0.0) | 0 (0.00) | 0 (0.0) | 95.7 | B |
| 106 (0.5) | 1141 (0.54) | 205 (1.0) | 93.1 | C |
| 199 (1.0) | 2142 (1.01) | 385 (2.0) | 91.3 | C |
| 284 (1.4) | 3057 (1.44) | 549 (2.8) | 89.0 | C |
| 399 (2.0) | 4295 (2.03) | 771 (3.9) | 86.6 | C |
| 497 (2.5) | 5350 (2.52) | 960 (4.9) | 84.4 | C |
| 576 (2.9) | 6200 (2.93) | 1113 (5.7) | 83.8 | C |
| 685 (3.5) | 7373 (3.48) | 1324 (6.7) | 78.4 | D |

| Class | Discharge Loss Coefficient |
|-------|----------------------------|
| 1 | 0.4 and above |
| 2 | 0.3 to 0.399 |
| 3 | 0.2 to 0.299 |
| 4 | .0199 and below |

| * Discharge Loss Intake | |
|-------------------------|-------|
| Wind Velocity (mph) | Class |
| 29 | 3 |
| 50 | 3 |

| Wind Driven Rain Penetration Classes | |
|--------------------------------------|---------------|
| Class | Effectiveness |
| A | 1 to 0.99 |
| B | 0.989 to 0.95 |
| C | 0.949 to 0.80 |
| D | Below 0.8 |



United Enertech certifies that the SED-4 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 rating seal applies to air performance and wind driven rain ratings.

(the higher the coefficient, the less resistance to airflow.)

* Discharge loss coefficient is the theoretical air flow of an opening divided by the actual flow rate of a louver the same size.