

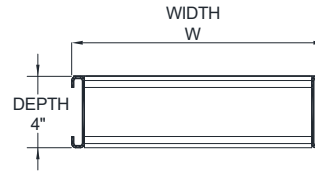


# ACL400 / ACL405

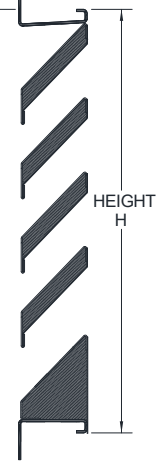
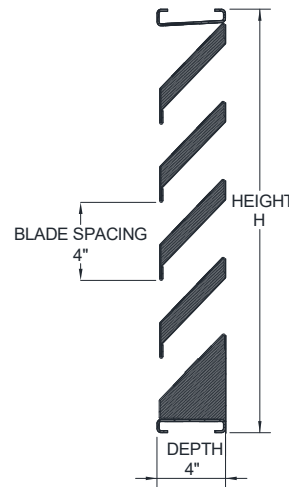
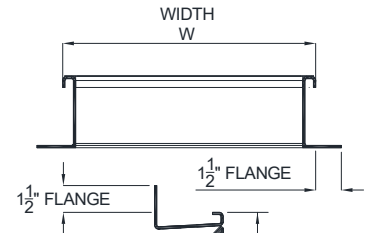
## 4" DEEP ACOUSTIC LOUVER – FORMED BLADES



MODEL: ACL400  
FRAME: CHANNEL FRAME  
DUCT-MOUNT (DM)



MODEL: ACL405  
FRAME: CHANNEL FRAME  
DUCT-MOUNT (DM)



| PERFORMANCE   |                        |                        |                |
|---|------------------------|------------------------|----------------|
| LOUVER UNIT SIZE  | TOTAL AREA             | FREE AREA              | FREE AREA      |
| 48" x 48"   | 16 ft <sup>2</sup>     | 4.40 ft <sup>2</sup>   | <b>27.5%</b>   |
| (1219 x 1219 mm)  | (1.49 m <sup>2</sup> ) | (0.41 m <sup>2</sup> ) |                |
| BEGINNING POINT OF WATER PENETRATION AT 0.01 oz./ft <sup>2</sup> FREE AREA: |                        |                        | <b>703 FPM</b> |

### STANDARD CONSTRUCTION

|                        |   |
|------------------------|---|
| <b>DEPTH:</b>          | 4" (102 mm)   |
| <b>MATERIAL:</b>       | ALUMINUM  |
| <b>FRAME:</b>          | 0.081" (2.06 mm) FORMED ALUMINUM                    |
| <b>BLADE EXTERIOR:</b> | 0.063" (1.60 mm) FORMED ALUMINUM                    |
| <b>BLADE INTERIOR:</b> | 0.032" (0.81 mm) PERFORATED ALUMINUM, 3/32" Ø HOLES |
| <b>INSULATION:</b>     | MINERAL WOOL INSULATION                             |
| <b>BLADE ANGLE:</b>    | 45°   |
| <b>BLADE CENTRES:</b>  | 4" (102 mm)   |
| <b>BIRDSCREEN:</b>     | 19 GA. GALVANIZED BIRDSCREEN - 1/2" x 1/2" OPENINGS |
| <b>FINISH:</b>         | MILL  |

### SIZE LIMITATIONS: SINGLE SECTION LOUVER

|               | MINIMUM                                    | MAXIMUM                                   |
|---------------|--|---|
| <b>WIDTH</b>  | 12" (305 mm)                               | 60" (1524 mm)                             |
| <b>HEIGHT</b> | 16" (406 mm)                               | 96" (2438 mm)                             |
| <b>AREA</b>   | 1.3 ft <sup>2</sup> (0.12 m <sup>2</sup> ) | 40 ft <sup>2</sup> (3.72 m <sup>2</sup> ) |

\*LOUVER WILL BE MANUFACTURED 1/4" (6 mm) SMALLER (SINGLE SECTION) AND 1/2" (13 mm) SMALLER (MULTIPLE SECTION) THAN GIVEN OPENING DIMENSIONS UNLESS OTHERWISE SPECIFIED.

### OPTIONS / ACCESSORIES

|   |   |
|---|---|
| <b>FINISH:</b>  | <b>SCREENS:</b>   |
| <ul style="list-style-type: none"> <li>POWDER COAT FINISH</li> <li>DURANAR FINISH</li> <li>ANODIZED FINISH               <ul style="list-style-type: none"> <li>CLEAR ANODIZED</li> <li>LIGHT BRONZE</li> <li>MEDIUM BRONZE</li> <li>DARK BRONZE</li> <li>BLACK ANODIZED</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>BIRDSCREEN               <ul style="list-style-type: none"> <li>1/2" x 1/2" INTER CRIMPED ALUMINUM</li> <li>ALUMINUM BIRDSCREEN WITH FRAME</li> </ul> </li> <li>INSECT SCREEN               <ul style="list-style-type: none"> <li>ALUMINUM, 18 x 14 MESH</li> </ul> </li> </ul> |
| <b>OTHER:</b>   | <b>BLANK-OFF PANELS (ALUMINUM):</b> VARIOUS GAUGES  |
| <ul style="list-style-type: none"> <li>EXTENDED SILLS</li> <li>SECURITY BARS</li> <li>FILTER RACKS</li> <li>STAINLESS STEEL FASTENERS</li> <li>HINGED ACCESS DOORS</li> </ul>   | <ul style="list-style-type: none"> <li>NON-INSULATED BLANK-OFF PANELS</li> <li>INSULATED BLANK-OFF PANELS               <ul style="list-style-type: none"> <li>1" (25 mm) INSULATION</li> <li>2" (51 mm) INSULATION</li> </ul> </li> </ul>  |

### SOUND PERFORMANCE

| OCTAVE BAND / FREQUENCY | FREE FIELD NOISE REDUCTION (dB) |
|-------------------------|---------------------------------|
| 1 / 63                  | 9                               |
| 2 / 125                 | 12                              |
| 3 / 250                 | 8                               |
| 4 / 500                 | 13                              |
| 5 / 1000                | 14                              |
| 6 / 2000                | 17                              |
| 7 / 4000                | 17                              |
| 8 / 8000                | 16                              |

THIS TEST WAS CONDUCTED IN ACCORDANCE WITH ASTM STANDARD E90-04. \*STANDARD TEST METHOD FOR LABORATORY MEASUREMENT OF AIRBORNE SOUND TRANSMISSION LOSS OF BUILDING PARTITIONS AND ELEMENTS\*.



# ACL400 / ACL405

## 4" DEEP ACOUSTIC LOUVER – FORMED BLADES

### FREE AREA (Sq. Ft.)

|                 |      | WIDTH (INCHES) |      |      |      |      |      |      |      |      |       |       |       |      |
|-----------------|------|----------------|------|------|------|------|------|------|------|------|-------|-------|-------|------|
|                 |      | 12             | 16   | 20   | 24   | 28   | 32   | 36   | 40   | 44   | 48    | 52    | 56    | 60   |
| HEIGHT (INCHES) | 16   | 0.28           | 0.39 | 0.50 | 0.61 | 0.72 | 0.82 | 0.93 | 1.04 | 1.15 | 1.26  | 1.36  | 1.47  | 1.58 |
|                 | 20   | 0.43           | 0.59 | 0.75 | 0.91 | 1.07 | 1.24 | 1.40 | 1.56 | 1.72 | 1.88  | 2.05  | 2.21  | 2.37 |
|                 | 24   | 0.43           | 0.59 | 0.75 | 0.91 | 1.07 | 1.24 | 1.40 | 1.56 | 1.72 | 1.88  | 2.05  | 2.21  | 2.37 |
|                 | 28   | 0.57           | 0.78 | 1.00 | 1.22 | 1.43 | 1.65 | 1.86 | 2.08 | 2.30 | 2.51  | 2.73  | 2.94  | 3.16 |
|                 | 32   | 0.61           | 0.84 | 1.07 | 1.30 | 1.53 | 1.76 | 1.99 | 2.22 | 2.45 | 2.68  | 2.91  | 3.15  | 3.38 |
|                 | 36   | 0.71           | 0.98 | 1.25 | 1.52 | 1.79 | 2.06 | 2.33 | 2.60 | 2.87 | 3.14  | 3.41  | 3.68  | 3.95 |
|                 | 40   | 0.85           | 1.18 | 1.50 | 1.82 | 2.15 | 2.47 | 2.80 | 3.12 | 3.44 | 3.77  | 4.09  | 4.42  | 4.74 |
|                 | 44   | 0.89           | 1.23 | 1.57 | 1.91 | 2.25 | 2.58 | 2.92 | 3.26 | 3.60 | 3.94  | 4.28  | 4.62  | 4.96 |
|                 | 48   | 0.99           | 1.37 | 1.75 | 2.13 | 2.51 | 2.88 | 3.26 | 3.64 | 4.02 | 4.40  | 4.77  | 5.15  | 5.53 |
|                 | 52   | 1.13           | 1.57 | 2.00 | 2.43 | 2.86 | 3.30 | 3.73 | 4.16 | 4.59 | 5.02  | 5.46  | 5.89  | 6.32 |
|                 | 56   | 1.17           | 1.62 | 2.07 | 2.51 | 2.96 | 3.41 | 3.86 | 4.30 | 4.75 | 5.20  | 5.64  | 6.09  | 6.54 |
|                 | 60   | 1.28           | 1.76 | 2.25 | 2.74 | 3.22 | 3.71 | 4.19 | 4.68 | 5.17 | 5.65  | 6.14  | 6.63  | 7.11 |
|                 | 64   | 1.42           | 1.96 | 2.50 | 3.04 | 3.58 | 4.12 | 4.66 | 5.20 | 5.74 | 6.28  | 6.82  | 7.36  | 7.90 |
|                 | 68   | 1.46           | 2.01 | 2.57 | 3.12 | 3.68 | 4.23 | 4.79 | 5.34 | 5.90 | 6.45  | 7.01  | 7.56  | 8.12 |
|                 | 72   | 1.56           | 2.15 | 2.75 | 3.34 | 3.94 | 4.53 | 5.13 | 5.72 | 6.31 | 6.91  | 7.50  | 8.10  | 8.69 |
|                 | 76   | 1.70           | 2.35 | 3.00 | 3.65 | 4.30 | 4.94 | 5.59 | 6.24 | 6.89 | 7.54  | 8.19  | 8.83  | 9.48 |
| 80              | 1.74 | 2.40           | 3.07 | 3.73 | 4.39 | 5.06 | 5.72 | 6.38 | 7.05 | 7.71 | 8.37  | 9.03  | 9.70  |      |
| 84              | 1.84 | 2.55           | 3.25 | 3.95 | 4.65 | 5.36 | 6.06 | 6.76 | 7.46 | 8.16 | 8.87  | 9.57  | 10.27 |      |
| 88              | 1.99 | 2.74           | 3.50 | 4.25 | 5.01 | 5.77 | 6.52 | 7.28 | 8.04 | 8.79 | 9.55  | 10.31 | 11.06 |      |
| 92              | 2.02 | 2.80           | 3.57 | 4.34 | 5.11 | 5.88 | 6.65 | 7.42 | 8.19 | 8.96 | 9.74  | 10.51 | 11.28 |      |
| 96              | 2.13 | 2.94           | 3.75 | 4.56 | 5.37 | 6.18 | 6.99 | 7.80 | 8.61 | 9.42 | 10.23 | 11.04 | 11.85 |      |

### FREE AREA (Sq. Ft.)

|                 |       | WIDTH (INCHES) |       |       |       |       |       |       |       |       |       |       |       |       |
|-----------------|-------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                 |       | 12             | 16    | 20    | 24    | 28    | 32    | 36    | 40    | 44    | 48    | 52    | 56    | 60    |
| HEIGHT (INCHES) | 16    | 21.3%          | 22.0% | 22.5% | 22.8% | 23.0% | 23.2% | 23.3% | 23.4% | 23.5% | 23.6% | 23.6% | 23.7% | 23.7% |
|                 | 20    | 25.5%          | 26.4% | 27.0% | 27.4% | 27.6% | 27.8% | 28.0% | 28.1% | 28.2% | 28.3% | 28.3% | 28.4% | 28.4% |
|                 | 24    | 21.3%          | 22.0% | 22.5% | 22.8% | 23.0% | 23.2% | 23.3% | 23.4% | 23.5% | 23.6% | 23.6% | 23.7% | 23.7% |
|                 | 28    | 24.3%          | 25.2% | 25.7% | 26.0% | 26.3% | 26.5% | 26.6% | 26.7% | 26.8% | 26.9% | 27.0% | 27.0% | 27.1% |
|                 | 32    | 22.7%          | 23.5% | 24.0% | 24.4% | 24.6% | 24.8% | 24.9% | 25.0% | 25.1% | 25.2% | 25.2% | 25.3% | 25.3% |
|                 | 36    | 23.6%          | 24.5% | 25.0% | 25.3% | 25.6% | 25.7% | 25.9% | 26.0% | 26.1% | 26.2% | 26.2% | 26.3% | 26.3% |
|                 | 40    | 25.5%          | 26.4% | 27.0% | 27.4% | 27.6% | 27.8% | 28.0% | 28.1% | 28.2% | 28.3% | 28.3% | 28.4% | 28.4% |
|                 | 44    | 24.3%          | 25.1% | 25.7% | 26.0% | 26.2% | 26.4% | 26.6% | 26.7% | 26.8% | 26.9% | 26.9% | 27.0% | 27.0% |
|                 | 48    | 24.8%          | 25.7% | 26.2% | 26.6% | 26.8% | 27.0% | 27.2% | 27.3% | 27.4% | 27.5% | 27.5% | 27.6% | 27.7% |
|                 | 52    | 26.2%          | 27.1% | 27.7% | 28.1% | 28.3% | 28.5% | 28.7% | 28.8% | 28.9% | 29.0% | 29.1% | 29.1% | 29.2% |
|                 | 56    | 25.1%          | 26.0% | 26.6% | 26.9% | 27.2% | 27.4% | 27.5% | 27.7% | 27.8% | 27.8% | 27.9% | 28.0% | 28.0% |
|                 | 60    | 25.5%          | 26.4% | 27.0% | 27.4% | 27.6% | 27.8% | 28.0% | 28.1% | 28.2% | 28.3% | 28.3% | 28.4% | 28.4% |
|                 | 64    | 26.6%          | 27.5% | 28.1% | 28.5% | 28.8% | 29.0% | 29.1% | 29.3% | 29.4% | 29.4% | 29.5% | 29.6% | 29.6% |
|                 | 68    | 25.7%          | 26.6% | 27.2% | 27.5% | 27.8% | 28.0% | 28.2% | 28.3% | 28.4% | 28.5% | 28.5% | 28.6% | 28.7% |
|                 | 72    | 26.0%          | 26.9% | 27.5% | 27.9% | 28.1% | 28.3% | 28.5% | 28.6% | 28.7% | 28.8% | 28.9% | 28.9% | 29.0% |
|                 | 76    | 26.9%          | 27.8% | 28.4% | 28.8% | 29.1% | 29.3% | 29.4% | 29.6% | 29.7% | 29.8% | 29.8% | 29.9% | 29.9% |
| 80              | 26.1% | 27.0%          | 27.6% | 28.0% | 28.2% | 28.4% | 28.6% | 28.7% | 28.8% | 28.9% | 29.0% | 29.0% | 29.1% |       |
| 84              | 26.3% | 27.3%          | 27.8% | 28.2% | 28.5% | 28.7% | 28.8% | 29.0% | 29.1% | 29.2% | 29.2% | 29.3% | 29.3% |       |
| 88              | 27.1% | 28.0%          | 28.6% | 29.0% | 29.3% | 29.5% | 29.7% | 29.8% | 29.9% | 30.0% | 30.1% | 30.1% | 30.2% |       |
| 92              | 26.4% | 27.3%          | 27.9% | 28.3% | 28.6% | 28.8% | 28.9% | 29.0% | 29.1% | 29.2% | 29.3% | 29.4% | 29.4% |       |
| 96              | 26.6% | 27.5%          | 28.1% | 28.5% | 28.8% | 29.0% | 29.1% | 29.3% | 29.4% | 29.4% | 29.5% | 29.6% | 29.6% |       |

### RECOMMENDED SPECIFICATION

Furnish and install stationary louver models ACL400 / ACL405 as manufactured by Ventex Inc, Alliston, Ontario. Louvers shall be 4" (102 mm) deep. Blades shall be formed 0.063" (1.60 mm) aluminum and frame shall be 0.081" (2.06 mm) formed aluminum. Louvers shall have 19 gauge galvanized 1/2" x 1/2" birdscreen. All materials shall be factory finished after assembly with Polyester Powder Coat in a color selected from the Ventex Color Chart.