

Model A6370  
6" (152.4 mm) Standard Fixed Acoustical Louvre

Material:

|                                                      |                                                                                                                                                                                                                                                 |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Material:                                            | 5005-H34 or 6063-T6 Aluminium Alloy, Fibreglass Insulation protected by woven (self-extinguishing) 100% Polyester sheeting                                                                                                                      |
| Nominal Thickness (heads, sills, jambs, & mullions): | 0.081" (2.06 mm)                                                                                                                                                                                                                                |
| Nominal Blade Thickness:                             | 0.081" (2.06 mm)                                                                                                                                                                                                                                |
| Additional Options (at additional cost):             | Birdscreen: 0.5" (12.7 mm) welded stainless steel G304 mesh.<br>Insect screen (in lieu of bird screen),<br>Continuous clip angles for attachment<br>Sheet blank off, Insulated blank off<br>Sill pans, Flange frames, Integrated glazing frames |



Test Summary:  
For a 4 Foot by 4 Foot Unit (1219mm x 1219mm).

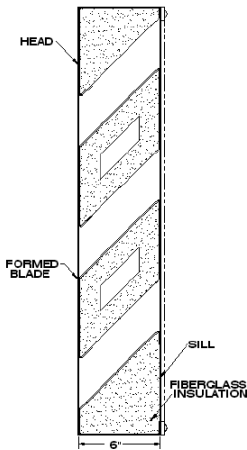
Tested with mill finish and no screen

- Free (throat) area = 3.46 ft<sup>2</sup> (0.32 m<sup>2</sup>)
- Percent free (throat) area = 21.6%
- Free (throat) area velocity at the point of beginning water penetration (@ 0.01 oz. / ft<sup>2</sup> of free (throat) area based on a 15 minute interval test) = 1046 FPM (5.31 m/s)
- Intake pressure drop at 846 FPM free (throat) area velocity = 0.08 in. H<sub>2</sub>O (19.9 Pa)

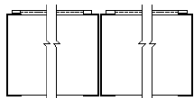
Acoustical Data:

The louvre manufacturer shall submit test data from an accredited acoustical laboratory in accordance with ASTM Standard E90-90. The minimum acceptable performance through all octave bands is as follows: STC = 13

|                   |    |     |     |     |      |      |      |      |
|-------------------|----|-----|-----|-----|------|------|------|------|
| Frequency (hz)    | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| Transmission Loss | 8  | 7   | 7   | 10  | 14   | 17   | 13   | 13   |
| Noise Reduction   | 14 | 13  | 13  | 16  | 20   | 23   | 19   | 19   |



SECTION VIEW



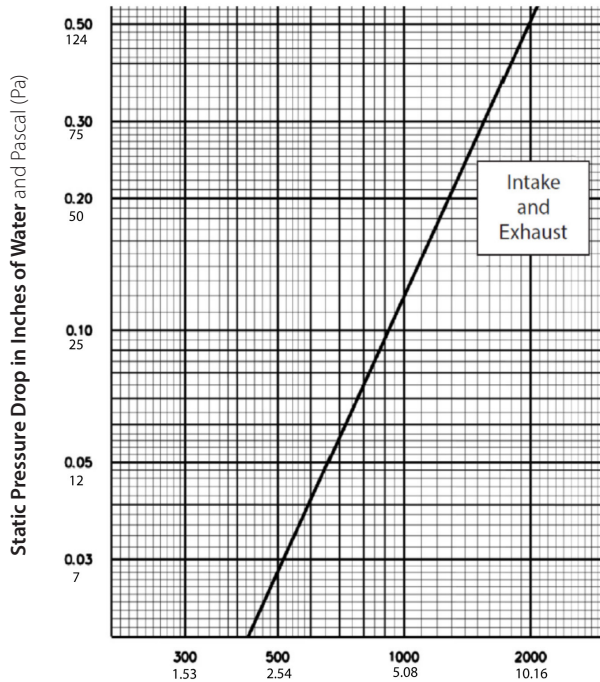
PLAN VIEW

# Model A6370

## 6" (152.4 mm) Standard Fixed Acoustical Louvre

### Water Penetration Statement

AMCA defines the point of beginning water penetration as the free (throat) area velocity at which the AMCA water test has yielded 0.01 or less ounces of water per square foot of louvre free (throat) area during a 15-minute test period.



Free Air Velocity in Feet per minute and Metre per Second (m/s)

Data corrected to standard air density.

48" x 48" (121.92cm x 121.92cm) louvre tested to figure 5.5.

### Free (throat) area Table (Free (throat) area in sq. feet and sq. metres)

For additional sizes, please visit:

#### Width in Inches and Metres

|      | 12   | 18   | 24   | 30   | 36    | 42    | 48    | 54    | 60    |
|------|------|------|------|------|-------|-------|-------|-------|-------|
|      | 0.30 | 0.46 | 0.61 | 0.76 | 0.91  | 1.07  | 1.22  | 1.37  | 1.52  |
| 18   | 0.16 | 0.28 | 0.39 | 0.51 | 0.63  | 0.75  | 0.86  | 0.98  | 1.10  |
| 0.46 | 0.01 | 0.03 | 0.04 | 0.05 | 0.06  | 0.07  | 0.08  | 0.09  | 0.10  |
| 24   | 0.31 | 0.55 | 0.79 | 1.02 | 1.26  | 1.49  | 1.73  | 1.97  | 2.20  |
| 0.61 | 0.03 | 0.05 | 0.07 | 0.09 | 0.12  | 0.14  | 0.16  | 0.18  | 0.20  |
| 30   | 0.31 | 0.55 | 0.79 | 1.02 | 1.26  | 1.49  | 1.73  | 1.97  | 2.20  |
| 0.76 | 0.03 | 0.05 | 0.07 | 0.09 | 0.12  | 0.14  | 0.16  | 0.18  | 0.20  |
| 36   | 0.47 | 0.83 | 1.18 | 1.53 | 1.89  | 2.24  | 2.59  | 2.95  | 3.30  |
| 0.91 | 0.04 | 0.08 | 0.11 | 0.14 | 0.18  | 0.21  | 0.24  | 0.27  | 0.31  |
| 42   | 0.63 | 1.10 | 1.57 | 2.04 | 2.52  | 2.99  | 3.46  | 3.93  | 4.40  |
| 1.07 | 0.06 | 0.10 | 0.15 | 0.19 | 0.23  | 0.28  | 0.32  | 0.37  | 0.41  |
| 48   | 0.63 | 1.10 | 1.57 | 2.04 | 2.52  | 2.99  | 3.46  | 3.93  | 4.40  |
| 1.22 | 0.06 | 0.10 | 0.15 | 0.19 | 0.23  | 0.28  | 0.32  | 0.37  | 0.41  |
| 54   | 0.79 | 1.38 | 1.97 | 2.55 | 3.14  | 3.73  | 4.32  | 4.91  | 5.50  |
| 1.37 | 0.07 | 0.13 | 0.18 | 0.24 | 0.29  | 0.35  | 0.40  | 0.46  | 0.51  |
| 60   | 0.79 | 1.38 | 1.97 | 2.55 | 3.14  | 3.73  | 4.32  | 4.91  | 5.50  |
| 1.52 | 0.07 | 0.13 | 0.18 | 0.24 | 0.29  | 0.35  | 0.40  | 0.46  | 0.51  |
| 66   | 0.94 | 1.65 | 2.36 | 3.07 | 3.77  | 4.48  | 5.19  | 5.90  | 6.60  |
| 1.68 | 0.09 | 0.15 | 0.22 | 0.29 | 0.35  | 0.42  | 0.48  | 0.55  | 0.61  |
| 72   | 1.10 | 1.93 | 2.75 | 3.58 | 4.40  | 5.23  | 6.05  | 6.88  | 7.70  |
| 1.83 | 0.10 | 0.18 | 0.26 | 0.33 | 0.41  | 0.49  | 0.56  | 0.64  | 0.72  |
| 78   | 1.10 | 1.93 | 2.75 | 3.58 | 4.40  | 5.23  | 6.05  | 6.88  | 7.70  |
| 1.98 | 0.10 | 0.18 | 0.26 | 0.33 | 0.41  | 0.49  | 0.56  | 0.64  | 0.72  |
| 84   | 1.26 | 2.20 | 3.14 | 4.09 | 5.03  | 5.97  | 6.92  | 7.86  | 8.80  |
| 2.13 | 0.12 | 0.20 | 0.29 | 0.38 | 0.47  | 0.55  | 0.64  | 0.73  | 0.82  |
| 90   | 1.26 | 2.20 | 3.14 | 4.09 | 5.03  | 5.97  | 6.92  | 7.86  | 8.80  |
| 2.29 | 0.12 | 0.20 | 0.29 | 0.38 | 0.47  | 0.55  | 0.64  | 0.73  | 0.82  |
| 96   | 1.42 | 2.48 | 3.54 | 4.60 | 5.66  | 6.72  | 7.78  | 8.84  | 9.91  |
| 2.44 | 0.13 | 0.23 | 0.33 | 0.43 | 0.53  | 0.62  | 0.72  | 0.82  | 0.92  |
| 102  | 1.57 | 2.75 | 3.93 | 5.11 | 6.29  | 7.47  | 8.65  | 9.83  | 11.01 |
| 2.59 | 0.15 | 0.26 | 0.37 | 0.47 | 0.58  | 0.69  | 0.80  | 0.91  | 1.02  |
| 108  | 1.57 | 2.75 | 3.93 | 5.11 | 6.29  | 7.47  | 8.65  | 9.83  | 11.01 |
| 2.74 | 0.15 | 0.26 | 0.37 | 0.47 | 0.58  | 0.69  | 0.80  | 0.91  | 1.02  |
| 114  | 1.73 | 3.03 | 4.32 | 5.62 | 6.92  | 8.21  | 9.51  | 10.81 | 12.11 |
| 2.90 | 0.16 | 0.28 | 0.40 | 0.52 | 0.64  | 0.76  | 0.88  | 1.00  | 1.13  |
| 120  | 1.73 | 3.03 | 4.32 | 5.62 | 6.92  | 8.21  | 9.51  | 10.81 | 12.11 |
| 3.05 | 0.16 | 0.28 | 0.40 | 0.52 | 0.64  | 0.76  | 0.88  | 1.00  | 1.13  |
| 126  | 1.89 | 3.30 | 4.72 | 6.13 | 7.55  | 8.96  | 10.38 | 11.79 | 13.21 |
| 3.20 | 0.18 | 0.31 | 0.44 | 0.57 | 0.70  | 0.83  | 0.96  | 1.10  | 1.23  |
| 132  | 2.04 | 3.58 | 5.11 | 6.64 | 8.18  | 9.71  | 11.24 | 12.77 | 14.31 |
| 3.35 | 0.19 | 0.33 | 0.47 | 0.62 | 0.76  | 0.90  | 1.04  | 1.19  | 1.33  |
| 138  | 2.04 | 3.58 | 5.11 | 6.64 | 8.18  | 9.71  | 11.24 | 12.77 | 14.31 |
| 3.51 | 0.19 | 0.33 | 0.47 | 0.62 | 0.76  | 0.90  | 1.04  | 1.19  | 1.33  |
| 144  | 2.20 | 3.85 | 5.50 | 7.15 | 8.80  | 10.46 | 12.11 | 13.76 | 15.41 |
| 3.66 | 0.20 | 0.36 | 0.51 | 0.66 | 0.82  | 0.97  | 1.13  | 1.28  | 1.43  |
| 150  | 2.20 | 3.85 | 5.50 | 7.15 | 8.80  | 10.46 | 12.11 | 13.76 | 15.41 |
| 3.81 | 0.20 | 0.36 | 0.51 | 0.66 | 0.82  | 0.97  | 1.13  | 1.28  | 1.43  |
| 156  | 2.36 | 4.13 | 5.90 | 7.66 | 9.43  | 11.20 | 12.97 | 14.74 | 16.51 |
| 3.96 | 0.22 | 0.38 | 0.55 | 0.71 | 0.88  | 1.04  | 1.20  | 1.37  | 1.53  |
| 162  | 2.52 | 4.40 | 6.29 | 8.18 | 10.06 | 11.95 | 13.84 | 15.72 | 17.61 |
| 4.11 | 0.23 | 0.41 | 0.58 | 0.76 | 0.93  | 1.11  | 1.29  | 1.46  | 1.64  |
| 168  | 2.52 | 4.40 | 6.29 | 8.18 | 10.06 | 11.95 | 13.84 | 15.72 | 17.61 |
| 4.27 | 0.23 | 0.41 | 0.58 | 0.76 | 0.93  | 1.11  | 1.29  | 1.46  | 1.64  |
| 174  | 2.67 | 4.68 | 6.68 | 8.69 | 10.69 | 12.70 | 14.70 | 16.70 | 18.71 |
| 4.42 | 0.25 | 0.43 | 0.62 | 0.81 | 0.99  | 1.18  | 1.37  | 1.55  | 1.74  |
| 180  | 2.67 | 4.68 | 6.68 | 8.69 | 10.69 | 12.70 | 14.70 | 16.70 | 18.71 |
| 4.57 | 0.25 | 0.43 | 0.62 | 0.81 | 0.99  | 1.18  | 1.37  | 1.55  | 1.74  |
| 186  | 2.83 | 4.95 | 7.08 | 9.20 | 11.32 | 13.44 | 15.57 | 17.69 | 19.81 |
| 4.72 | 0.26 | 0.46 | 0.66 | 0.76 | 1.05  | 1.25  | 1.45  | 1.64  | 1.84  |
| 192  | 2.99 | 5.23 | 7.47 | 9.71 | 11.95 | 14.19 | 16.43 | 18.67 | 20.91 |
| 4.88 | 0.28 | 0.49 | 0.69 | 0.90 | 1.11  | 1.32  | 1.53  | 1.73  | 1.94  |

Height in Inches and Metres

Upper Numerals English Units/Lower Numerals Metric Units