

MODEL GAC1212

12" Deep • 12" Blade Spacing • Galvanized Steel Acoustical Louver

STANDARD MATERIALS AND CONSTRUCTION

- FRAME:** 16-GA galvanized steel
- BLADE:** 18-GA galvanized steel airfoil exterior surface with 22-GA perforated steel interior surface
- BLADE FILL:** Sound insulation
- SCREEN:** ½" galvanized steel mesh (.041")
- FINISH:** Mill

OPTIONS

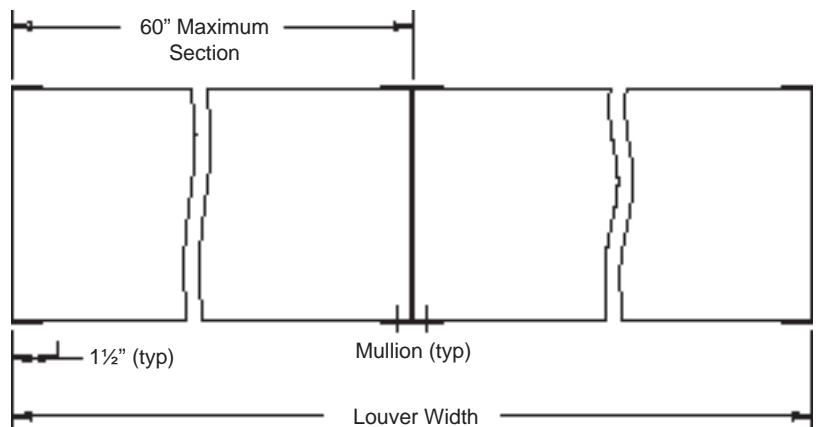
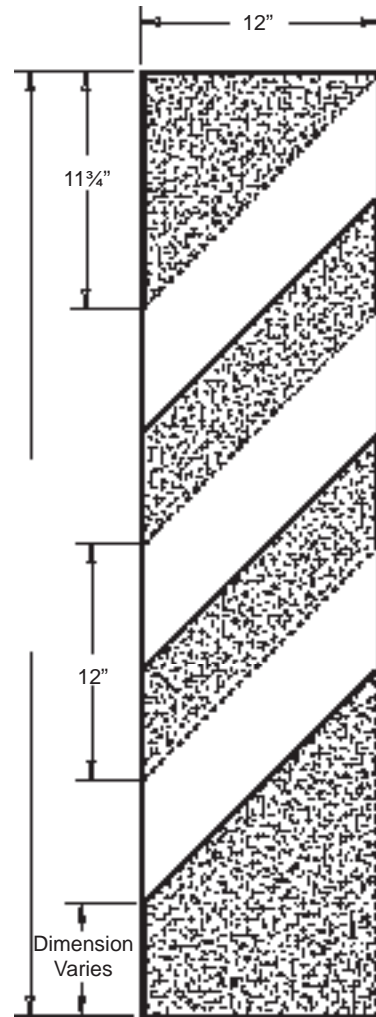
Finish - Baked Enamel, Kynar, or Anodize

NOTES

1. "A" width and "B" height are opening dimensions. Louvers are provided approximately ½" undercut.
2. Shipping louvers by commercial carrier requires at least one louver dimension not to exceed 84" in height or width.

LOUVER SIZES

| Panels | Min Panel | Max Single Panel |
|---------|-------------|------------------|
| GAC1212 | 12"W x 22"H | 60"W x 96"H |



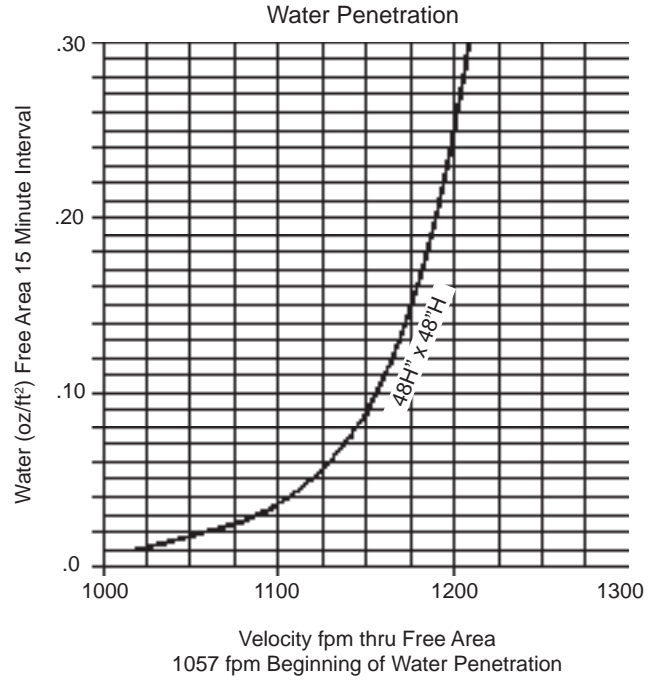
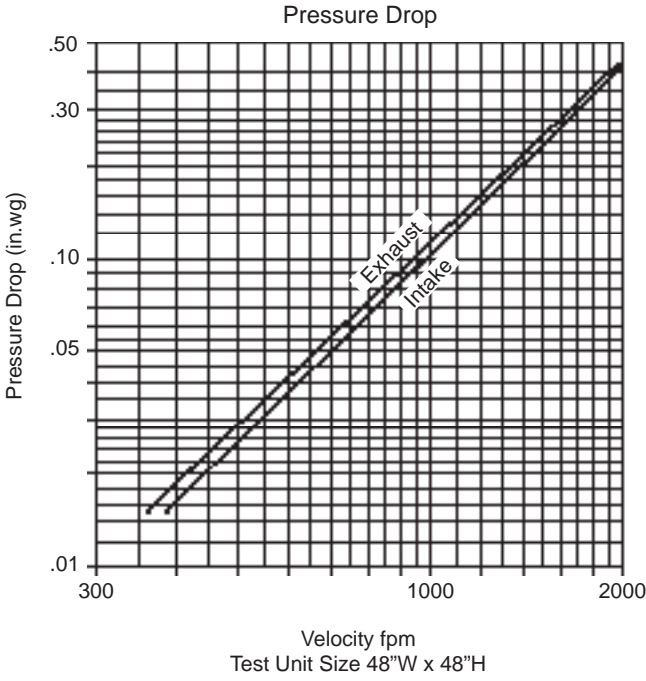
air balance

Dampers  Louvers
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Ratings do not include the effect of birdscreen.



Sound Transmission Loss

| | | | | | | | | |
|------------------------------|----|-----|-----|-----|------|------|------|------|
| Octive Band | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Frequency (Hz) | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| Sound Transmission Loss (db) | 8 | 8 | 7 | 9 | 13 | 15 | 12 | 10 |
| Free Field Noise Reduction | 14 | 14 | 13 | 15 | 19 | 21 | 18 | 16 |

Attenuation

| Distance From Louver | Octive Band Center Frequency (Hz) | | | | | | | |
|----------------------|-----------------------------------|-----|-----|-----|------|------|------|------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 0 | 14 | 14 | 13 | 15 | 19 | 21 | 18 | 16 |
| 10 | 26 | 26 | 25 | 27 | 31 | 33 | 30 | 28 |
| 50 | 40 | 40 | 39 | 41 | 45 | 47 | 44 | 42 |
| 100 | 46 | 46 | 45 | 47 | 45 | 53 | 50 | 48 |
| 200 | 52 | 52 | 51 | 53 | 53 | 59 | 56 | 54 |
| 500 | 60 | 60 | 59 | 61 | 65 | 67 | 64 | 62 |
| 1000 | 66 | 66 | 65 | 67 | 71 | 73 | 70 | 68 |

The Attenuation Chart is a combination of the model GAC1212 sound transmission loss and the reduction of sound energy as a function of distance.

Free Area sq.ft.

| | | Width | | | | | | | | |
|--------|------|-------|------|------|------|------|------|-------|-------|-------|
| | | 12" | 18" | 24" | 30" | 36" | 42" | 48" | 54" | 60" |
| Height | 24" | 0.27 | 0.45 | 0.63 | 0.81 | 0.98 | 1.16 | 1.34 | 1.52 | 1.70 |
| | 36" | 0.54 | 0.90 | 1.25 | 1.61 | 1.97 | 2.33 | 2.69 | 3.04 | 3.40 |
| | 48" | 0.81 | 1.34 | 1.88 | 2.42 | 2.95 | 3.49 | 4.03 | 4.56 | 5.10 |
| | 60" | 1.07 | 1.79 | 2.51 | 3.22 | 3.94 | 4.65 | 5.37 | 6.09 | 6.80 |
| | 72" | 1.34 | 2.24 | 3.13 | 4.03 | 4.92 | 5.82 | 6.71 | 7.61 | 8.50 |
| | 84" | 1.61 | 2.69 | 3.76 | 4.83 | 5.91 | 6.98 | 8.06 | 9.13 | 10.20 |
| 96" | 1.88 | 3.13 | 4.39 | 5.64 | 6.89 | 8.14 | 9.40 | 10.65 | 11.90 | |



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