## LG <br> LATTICE GRILLE














 Mman











GRILLES

LG
Lattice Grille

Lattice Grilles (LG) are available in a number of standard mesh patterns and can be fabricated in steel, stainless steel, or aluminum to suit the desired strength, corrosion and finish needs.

$1 / 2$ in. mesh

1 in. mesh



3/4 in. mesh


2 in. $x^{1 / 2}$ in. mesh

## COMPLETELY CUSTOMIZABLE

+ Full customization of LG grilles provides the flexibility required to meet even the most demanding architectural requirements.
+ The LG can be manufactured to match complex, customer supplied designs, a feature that is well suited to spaces with unique architectural requirements where aesthetics are of the utmost importance.



## TYPICAL APPLICATIONS

Lattice grilles are perfectly suited for retrofits, historical buildings, and applications where a thin profile is required. The thin design allows lattice grilles to cover other air distribution products to improve the aesthetic or minimize damage and tampering.

## CONSTRUCTION

+ Core Style
- $\quad 1 / 2 \mathrm{in}$. mesh (LG50)
- $\quad 3 / 4 \mathrm{in}$. mesh (LG75)
- 1 in. mesh (LG100)
- 2 in. $x^{1 ⁄ 2}$ in. rectangular mesh (LG250)
+ Material
- Steel - 14 gauge
- Aluminum - 14 gauge
- Stainless steel - 20 gauge
+ Size
- Minimum: 6 in. x 4 in.
- Maximum (one piece): 24 in. x 96 in.
- Oversized construction available
+ Options
- Integral damper
- Heavy gauge construction
- Custom core pattern


## PERFORMANCE DATA

## LG75-3/4 in. Square Mesh - Daylight Opening Schedule

| Hole quantity per row/column | Daylight width (in) | Daylight height (in) |
| :---: | :---: | :---: |
| 1 | 3/4 in. | 3/4 in. |
| 2 | $13 / 4 \mathrm{in}$. | $13 / 4 \mathrm{in}$. |
| 3 | $23 / 4 \mathrm{in}$. | $23 / 4 \mathrm{in}$. |
| 4 | 3 3/4 in. | 3 3/4 in. |
| 5 | $43 / 4 \mathrm{in}$. | $43 / 4 \mathrm{in}$. |
| 6 | $53 / 4 \mathrm{in}$. | $53 / 4 \mathrm{in}$. |
| 7 | 6 3/4 in. | 6 3/4 in. |
| 8 | $73 / 4 \mathrm{in}$. | $73 / 4 \mathrm{in}$. |
| 9 | $83 / 4 \mathrm{in}$. | $83 / 4 \mathrm{in}$. |
| 10 | $93 / 4 \mathrm{in}$. | $93 / 4 \mathrm{in}$. |
| 11 | $103 / 4$ in. | $103 / 4$ in. |
| 12 | $113 / 4$ in. | $113 / 4$ in. |
| 13 | $123 / 4$ in. | 12 3/4 in. |
| 14 | $133 / 4 \mathrm{in}$. | $133 / 4 \mathrm{in}$. |
| 15 | $143 / 4 \mathrm{in}$. | $143 / 4 \mathrm{in}$. |
| 16 | $153 / 4 \mathrm{in}$. | $153 / 4 \mathrm{in}$. |
| 17 | $163 / 4$ in. | $163 / 4$ in. |
| 18 | $173 / 4 \mathrm{in}$. | $173 / 4 \mathrm{in}$. |
| 19 | $183 / 4 \mathrm{in}$. | $183 / 4 \mathrm{in}$. |
| 20 | $193 / 4$ in. | $193 / 4$ in. |
| 21 | $203 / 4$ in. | $203 / 4 \mathrm{in}$. |
| 22 | $213 / 4 \mathrm{in}$. | $213 / 4 \mathrm{in}$. |
| 23 | $223 / 4 \mathrm{in}$. | $223 / 4 \mathrm{in}$. |
| 24 | 23 3/4 in. | 23 3/4 in. |
| 25 | $243 / 4$ in. | $243 / 4 \mathrm{in}$. |
| 26 | $253 / 4 \mathrm{in}$. | $253 / 4 \mathrm{in}$. |
| 27 | $263 / 4$ in. | $263 / 4$ in. |
| 28 | $273 / 4$ in. | $273 / 4 \mathrm{in}$. |
| 29 | $283 / 4$ in. | $283 / 4 \mathrm{in}$. |
| 30 | $293 / 4 \mathrm{in}$. | $293 / 4 \mathrm{in}$. |
| 31 | $303 / 4 \mathrm{in}$. | $303 / 4$ in. |
| 32 | $313 / 4 \mathrm{in}$. | $313 / 4 \mathrm{in}$. |


| Hole quantity per row/column | Daylight width (in) | Daylight height <br> (in) |
| :---: | :---: | :---: |
| 33 | $323 / 4$ in. | $323 / 4$ in. |
| 34 | 33 3/4 in. | 33 3/4 in. |
| 35 | $343 / 4 \mathrm{in}$. | 34 3/4 in. |
| 36 | $353 / 4 \mathrm{in}$. | $353 / 4 \mathrm{in}$. |
| 37 | $363 / 4 \mathrm{in}$. | $363 / 4 \mathrm{in}$. |
| 38 | $373 / 4 \mathrm{in}$. | $373 / 4$ in. |
| 39 | $383 / 4$ in. | $383 / 4$ in. |
| 40 | $393 / 4 \mathrm{in}$. | $393 / 4 \mathrm{in}$. |
| 41 | $403 / 4 \mathrm{in}$. | $403 / 4 \mathrm{in}$. |
| 42 | $413 / 4$ in. | $413 / 4 \mathrm{in}$. |
| 43 | $423 / 4 \mathrm{in}$. | $423 / 4 \mathrm{in}$. |
| 44 | 43 3/4 in. | $433 / 4$ in. |
| 45 | $443 / 4 \mathrm{in}$. | $443 / 4 \mathrm{in}$. |
| 46 | $453 / 4 \mathrm{in}$. | $453 / 4 \mathrm{in}$. |
| 47 | $463 / 4 \mathrm{in}$. | $463 / 4$ in. |
| 48 | $473 / 4$ in. | $473 / 4$ in. |
| 49 | $483 / 4 \mathrm{in}$. | $483 / 4 \mathrm{in}$. |
| 50 | $493 / 4$ in. | $493 / 4$ in. |
| 51 | $503 / 4$ in. | $503 / 4$ in. |
| 52 | $513 / 4 \mathrm{in}$. | $513 / 4 \mathrm{in}$. |
| 53 | $523 / 4$ in. | $523 / 4 \mathrm{in}$. |
| 54 | 53 3/4 in. | $533 / 4 \mathrm{in}$. |
| 55 | 54 3/4 in. | 54 3/4 in. |
| 56 | $553 / 4 \mathrm{in}$. | 55 3/4 in. |
| 57 | 56 3/4 in. | $563 / 4$ in. |
| 58 | $573 / 4$ in. | $573 / 4$ in. |
| 59 | $583 / 4$ in. | $583 / 4 \mathrm{in}$. |
| 60 | $593 / 4$ in. | $593 / 4 \mathrm{in}$. |
| 61 | $603 / 4 \mathrm{in}$. | $603 / 4$ in. |
| 62 | 61 3/4 in. | 61 3/4 in. |
| 63 | $623 / 4$ in. | $623 / 4 \mathrm{in}$. |
| 64 | 63 3/4 in. | 63 3/4 in. |


| Hole quantity per row/column | Daylight width <br> (in) | Daylight height <br> (in) |
| :---: | :---: | :---: |
| 65 | $643 / 4$ in. | $643 / 4$ in. |
| 66 | $653 / 4 \mathrm{in}$. | $653 / 4$ in. |
| 67 | $663 / 4 \mathrm{in}$. | $663 / 4$ in. |
| 68 | 67 3/4 in. | $673 / 4$ in. |
| 69 | 68 3/4 in. | $683 / 4$ in. |
| 70 | $693 / 4 \mathrm{in}$. | $693 / 4$ in. |
| 71 | 70 3/4 in. | $703 / 4$ in. |
| 72 | $713 / 4 \mathrm{in}$. | $713 / 4$ in. |
| 73 | $723 / 4 \mathrm{in}$. | $723 / 4 \mathrm{in}$. |
| 74 | 73 3/4 in. | 73 3/4 in. |
| 75 | $743 / 4 \mathrm{in}$. | $743 / 4 \mathrm{in}$. |
| 76 | $753 / 4 \mathrm{in}$. | $753 / 4 \mathrm{in}$. |
| 77 | $763 / 4$ in. | $763 / 4$ in. |
| 78 | 77 3/4 in. | $773 / 4 \mathrm{in}$. |
| 79 | 78 3/4 in. | $783 / 4$ in. |
| 80 | $793 / 4 \mathrm{in}$. | $793 / 4 \mathrm{in}$. |
| 81 | $803 / 4$ in. | $803 / 4$ in. |
| 82 | $813 / 4 \mathrm{in}$. | $813 / 4$ in. |
| 83 | $823 / 4 \mathrm{in}$. | $823 / 4$ in. |
| 84 | 83 3/4 in. | $833 / 4$ in. |
| 85 | 84 3/4 in. | $843 / 4$ in. |
| 86 | $853 / 4 \mathrm{in}$. | $853 / 4$ in. |
| 87 | $863 / 4 \mathrm{in}$. | $863 / 4$ in. |
| 88 | $873 / 4$ in. | $873 / 4$ in. |
| 89 | $883 / 4 \mathrm{in}$. | $883 / 4 \mathrm{in}$. |
| 90 | 89 3/4 in. | $893 / 4$ in. |
| 91 | $903 / 4 \mathrm{in}$. | $903 / 4$ in. |
| 92 | $913 / 4 \mathrm{in}$. | $913 / 4 \mathrm{in}$. |
| 93 | $923 / 4 \mathrm{in}$. | $923 / 4 \mathrm{in}$. |
| 94 | 93 3/4 in. | $933 / 4$ in. |

## LG250-2 x 1/2 in. Rectangular Mesh - Daylight Opening Schedule

| Hole quantity per row/column | Daylight width (in) | Daylight height <br> (in) |
| :---: | :---: | :---: |
| 1 | 2 in. | 1/2 in. |
| 2 | $41 / 4 \mathrm{in}$. | $11 / 4 \mathrm{in}$. |
| 3 | $61 / 2 \mathrm{in}$. | 2 in. |
| 4 | $83 / 4 \mathrm{in}$. | $23 / 4 \mathrm{in}$. |
| 5 | 11 in . | 3 1/2 in. |
| 6 | $131 / 4 \mathrm{in}$. | $41 / 4 \mathrm{in}$. |
| 7 | $151 / 2 \mathrm{in}$. | 5 in. |
| 8 | $173 / 4$ in. | $53 / 4 \mathrm{in}$. |
| 9 | 20 in . | $61 / 2 \mathrm{in}$. |
| 10 | 22 1/4 in. | 71/4 in. |
| 11 | $241 / 2 \mathrm{in}$. | 8 in. |
| 12 | $263 / 4$ in. | $83 / 4 \mathrm{in}$. |
| 13 | 29 in. | $91 / 2 \mathrm{in}$. |
| 14 | $311 / 4 \mathrm{in}$. | $101 / 4 \mathrm{in}$. |
| 15 | 33 1/2 in. | 11 in . |
| 16 | $353 / 4 \mathrm{in}$. | $113 / 4 \mathrm{in}$. |
| 17 | 38 in . | $121 / 2 \mathrm{in}$. |
| 18 | 40 1/4 in. | $131 / 4 \mathrm{in}$. |


| Hole quantity <br> per row/column | Daylight width <br> (in) | Daylight height <br> (in) |
| :---: | :---: | :---: |
| $\mathbf{1 9}$ | $421 / 2 \mathrm{in}$. | 14 in. |
| $\mathbf{2 0}$ | $443 / 4 \mathrm{in}$. | $143 / 4 \mathrm{in}$. |
| $\mathbf{2 1}$ | 47 in. | $151 / 2 \mathrm{in}$. |
| $\mathbf{2 2}$ | $491 / 4 \mathrm{in}$. | $161 / 4 \mathrm{in}$. |
| $\mathbf{2 3}$ | $511 / 2 \mathrm{in}$. | 17 in. |
| $\mathbf{2 4}$ | $533 / 4 \mathrm{in}$. | $173 / 4 \mathrm{in}$. |
| $\mathbf{2 5}$ | 56 in. | $181 / 2 \mathrm{in}$. |
| $\mathbf{2 6}$ | $581 / 4 \mathrm{in}$. | $191 / 4 \mathrm{in}$. |
| $\mathbf{2 7}$ | $601 / 2 \mathrm{in}$. | $20 \mathrm{in}$. |
| $\mathbf{2 8}$ | $623 / 4 \mathrm{in}$. | $203 / 4 \mathrm{in}$. |
| $\mathbf{2 9}$ | 65 in. | $211 / 2 \mathrm{in}$. |
| $\mathbf{3 0}$ | $671 / 4 \mathrm{in}$. | $221 / 4 \mathrm{in}$. |
| $\mathbf{3 1}$ | $691 / 2 \mathrm{in}$. | - |
| $\mathbf{3 2}$ | $713 / 4 \mathrm{in}$. | - |
| $\mathbf{3 3}$ | 74 in. | - |
| $\mathbf{3 4}$ | $761 / 4 \mathrm{in}$. | - |
| $\mathbf{3 5}$ | $781 / 2 \mathrm{in}$. | - |
| $\mathbf{3 6}$ | $803 / 4 \mathrm{in}$. | - |



NOTES:
Daylight height is the lattice opening in the vertical direction. Daylight width is the lattice openingin the horizontal direction.

## PERFORMANCE DATA

## LG100 - 1 in. square mesh - Daylight Opening Schedule

| Hole quantity per row/column | Daylight width <br> (in) | Daylight height (in) |
| :---: | :---: | :---: |
| 1 | 1 in . | 1 in . |
| 2 | $21 / 4 \mathrm{in}$. | $21 / 4 \mathrm{in}$. |
| 3 | $31 / 2 \mathrm{in}$. | $31 / 2 \mathrm{in}$. |
| 4 | $43 / 4 \mathrm{in}$. | $43 / 4 \mathrm{in}$. |
| 5 | 6 in. | 6 in . |
| 6 | $71 / 4 \mathrm{in}$. | $71 / 4 \mathrm{in}$. |
| 7 | $81 / 2 \mathrm{in}$. | $81 / 2 \mathrm{in}$. |
| 8 | $93 / 4 \mathrm{in}$. | $93 / 4 \mathrm{in}$. |
| 9 | 11 in . | 11 in. |
| 10 | $121 / 4 \mathrm{in}$. | $121 / 4 \mathrm{in}$. |
| 11 | $131 / 2 \mathrm{in}$. | $131 / 2 \mathrm{in}$. |
| 12 | 143/4 in. | $143 / 4 \mathrm{in}$. |
| 13 | 16 in. | 16 in . |
| 14 | $171 / 4 \mathrm{in}$. | $171 / 4 \mathrm{in}$. |
| 15 | $181 / 2 \mathrm{in}$. | $181 / 2 \mathrm{in}$. |
| 16 | 193/4 in. | $193 / 4 \mathrm{in}$. |
| 17 | 21 in . | 21 in . |
| 18 | $221 / 4 \mathrm{in}$. | $221 / 4 \mathrm{in}$. |
| 19 | $231 / 2 \mathrm{in}$. | $231 / 2 \mathrm{in}$. |
| 20 | $243 / 4 \mathrm{in}$. | $243 / 4 \mathrm{in}$. |
| 21 | 26 in . | 26 in. |
| 22 | 27 1/4 in. | $271 / 4 \mathrm{in}$. |
| 23 | $281 / 2 \mathrm{in}$. | $281 / 2 \mathrm{in}$. |
| 24 | $293 / 4 \mathrm{in}$. | $293 / 4 \mathrm{in}$. |


| Hole quantity per row/column | Daylight width (in) | Daylight height <br> (in) |
| :---: | :---: | :---: |
| 25 | 31 in . | 31 in . |
| 26 | 32 1/4 in. | 32 1/4 in. |
| 27 | $331 / 2 \mathrm{in}$. | $331 / 2 \mathrm{in}$. |
| 28 | $343 / 4 \mathrm{in}$. | $343 / 4 \mathrm{in}$. |
| 29 | 36 in. | 36 in. |
| 30 | 37 1/4 in. | $371 / 4$ in. |
| 31 | $381 / 2 \mathrm{in}$. | $381 / 2$ in. |
| 32 | $393 / 4 \mathrm{in}$. | $393 / 4 \mathrm{in}$. |
| 33 | 41 in . | 41 in . |
| 34 | 42 1/4 in. | 42 1/4 in. |
| 35 | $431 / 2 \mathrm{in}$. | $431 / 2 \mathrm{in}$. |
| 36 | $443 / 4 \mathrm{in}$. | 44 3/4 in. |
| 37 | 46 in. | 46 in . |
| 38 | 47 1/4 in. | $471 / 4 \mathrm{in}$. |
| 39 | 48 1/2 in. | 48 1/2 in. |
| 40 | $493 / 4$ in. | 49 3/4 in. |
| 41 | 51 in . | 51 in . |
| 42 | 52 1/4 in. | 52 1/4 in. |
| 43 | $531 / 2 \mathrm{in}$. | $531 / 2 \mathrm{in}$. |
| 44 | 54 3/4 in. | $543 / 4 \mathrm{in}$. |
| 45 | 56 in . | 56 in. |
| 46 | $571 / 4 \mathrm{in}$. | $571 / 4$ in. |
| 47 | 58 1/2 in. | 58 1/2 in. |
| 48 | 59 3/4 in. | $593 / 4$ in. |
| 49 | 61 in . | 61 in . |
| 50 | 62 1/4 in. | 62 1/4 in. |


| Hole quantity per row/column | Daylight width <br> (in) | Daylight height <br> (in) |
| :---: | :---: | :---: |
| 51 | 63 1/2 in. | $631 / 2 \mathrm{in}$. |
| 52 | $643 / 4 \mathrm{in}$. | 64 3/4 in. |
| 53 | 66 in. | 66 in . |
| 54 | 67 1/4 in. | 67 1/4 in. |
| 55 | 68 1/2 in. | $681 / 2 \mathrm{in}$. |
| 56 | 69 3/4 in. | 69 3/4 in. |
| 57 | 71 in . | 71 in . |
| 58 | 72 1/4 in. | $721 / 4 \mathrm{in}$. |
| 59 | $731 / 2 \mathrm{in}$. | $731 / 2 \mathrm{in}$. |
| 60 | $743 / 4 \mathrm{in}$. | $743 / 4 \mathrm{in}$. |
| 61 | 76 in. | 76 in. |
| 62 | 77 1/4 in. | $771 / 4 \mathrm{in}$. |
| 63 | $781 / 2 \mathrm{in}$. | $781 / 2 \mathrm{in}$. |
| 64 | 79 3/4 in. | $793 / 4 \mathrm{in}$. |
| 65 | 81 in . | 81 in . |
| 66 | $821 / 4 \mathrm{in}$. | $821 / 4$ in. |
| 67 | $831 / 2 \mathrm{in}$. | $831 / 2 \mathrm{in}$. |
| 68 | 84 3/4 in. | $843 / 4 \mathrm{in}$. |
| 69 | 86 in. | 86 in . |
| 70 | 87 1/4 in. | $871 / 4 \mathrm{in}$. |
| 71 | $881 / 2 \mathrm{in}$. | $881 / 2 \mathrm{in}$. |
| 72 | 89 3/4 in. | 89 3/4 in. |
| 73 | 91 in. | 91 in . |
| 74 | $921 / 4 \mathrm{in}$. | $921 / 4 \mathrm{in}$. |
| 75 | $931 / 2 \mathrm{in}$. | $931 / 2 \mathrm{in}$. |

## LG50 - 1/2 in. square mesh - Daylight Opening Schedule

| Hole quantity per row/column | Daylight width (in) | Daylight height (in) |
| :---: | :---: | :---: |
| 1 | 1/2 in. | 1/2 in. |
| 2 | $11 / 4 \mathrm{in}$. | $11 / 4 \mathrm{in}$. |
| 3 | 2 in. | 2 in. |
| 4 | $23 / 4 \mathrm{in}$. | $23 / 4 \mathrm{in}$. |
| 5 | $31 / 2 \mathrm{in}$. | $31 / 2 \mathrm{in}$. |
| 6 | $41 / 4 \mathrm{in}$. | $41 / 4 \mathrm{in}$. |
| 7 | 5 in. | 5 in. |
| 8 | $53 / 4 \mathrm{in}$. | $53 / 4 \mathrm{in}$. |
| 9 | $61 / 2 \mathrm{in}$. | $61 / 2 \mathrm{in}$. |
| 10 | $71 / 4 \mathrm{in}$. | $71 / 4 \mathrm{in}$. |
| 11 | 8 in. | 8 in. |
| 12 | $83 / 4 \mathrm{in}$. | $83 / 4 \mathrm{in}$. |
| 13 | $91 / 2 \mathrm{in}$. | $91 / 2 \mathrm{in}$. |
| 14 | $101 / 4 \mathrm{in}$. | $10 \mathrm{1} / 4 \mathrm{in}$. |
| 15 | 11 in . | 11 in . |
| 16 | $113 / 4 \mathrm{in}$. | $113 / 4 \mathrm{in}$. |
| 17 | 12 1/2 in. | $121 / 2 \mathrm{in}$. |
| 18 | $131 / 4 \mathrm{in}$. | $131 / 4 \mathrm{in}$. |
| 19 | 14 in . | 14 in . |
| 20 | $143 / 4 \mathrm{in}$. | 14 3/4 in. |
| 21 | 151/2 in. | $151 / 2 \mathrm{in}$. |
| 22 | $161 / 4 \mathrm{in}$. | $161 / 4 \mathrm{in}$. |
| 23 | 17 in . | 17 in . |
| 24 | $173 / 4 \mathrm{in}$. | $173 / 4 \mathrm{in}$. |
| 25 | $181 / 2 \mathrm{in}$. | $181 / 2 \mathrm{in}$. |
| 26 | $191 / 4 \mathrm{in}$. | $19 \mathrm{l} / 4 \mathrm{in}$. |
| 27 | 20 in . | 20 in. |
| 28 | $203 / 4 \mathrm{in}$. | $203 / 4 \mathrm{in}$. |
| 29 | $211 / 2 \mathrm{in}$. | $211 / 2 \mathrm{in}$. |
| 30 | $221 / 4 \mathrm{in}$. | 22 1/4 in. |


| Hole quantity per row/column | Daylight width (in) | Daylight height (in) |
| :---: | :---: | :---: |
| 31 | 23 in. | 23 in. |
| 32 | 23 3/4 in. | 23 3/4 in. |
| 33 | $241 / 2 \mathrm{in}$. | $241 / 2 \mathrm{in}$. |
| 34 | 25 1/4 in. | $251 / 4 \mathrm{in}$. |
| 35 | 26 in . | 26 in. |
| 36 | $263 / 4 \mathrm{in}$. | $263 / 4 \mathrm{in}$. |
| 37 | $271 / 2 \mathrm{in}$. | $271 / 2 \mathrm{in}$. |
| 38 | $281 / 4 \mathrm{in}$. | $281 / 4 \mathrm{in}$. |
| 39 | 29 in. | 29 in. |
| 40 | 29 3/4 in. | 29 3/4 in. |
| 41 | $301 / 2 \mathrm{in}$. | $301 / 2 \mathrm{in}$. |
| 42 | $311 / 4 \mathrm{in}$. | $311 / 4 \mathrm{in}$. |
| 43 | 32 in . | 32 in . |
| 44 | $323 / 4 \mathrm{in}$. | $323 / 4 \mathrm{in}$. |
| 45 | $331 / 2 \mathrm{in}$. | $331 / 2 \mathrm{in}$. |
| 46 | $341 / 4 \mathrm{in}$. | $341 / 4 \mathrm{in}$. |
| 47 | 35 in . | 35 in . |
| 48 | 35 3/4 in. | $353 / 4 \mathrm{in}$. |
| 49 | $361 / 2 \mathrm{in}$. | $361 / 2 \mathrm{in}$. |
| 50 | $371 / 2 \mathrm{in}$. | $371 / 2 \mathrm{in}$. |
| 51 | 38 in . | 38 in . |
| 52 | $383 / 4 \mathrm{in}$. | $383 / 4 \mathrm{in}$. |
| 53 | 39 1/2 in. | $391 / 2 \mathrm{in}$. |
| 54 | 40 1/4 in. | $401 / 4 \mathrm{in}$. |
| 55 | 41 in . | 41 in . |
| 56 | $413 / 4 \mathrm{in}$. | $413 / 4 \mathrm{in}$. |
| 57 | $421 / 2 \mathrm{in}$. | $421 / 2 \mathrm{in}$. |
| 58 | $431 / 4 \mathrm{in}$. | $431 / 4 \mathrm{in}$. |
| 59 | 44 in . | 44 in . |
| 60 | $443 / 4 \mathrm{in}$. | $443 / 4 \mathrm{in}$. |


| Hole quantity per row/column | Daylight width (in) | Daylight height (in) |
| :---: | :---: | :---: |
| 61 | $451 / 2 \mathrm{in}$. | $451 / 2 \mathrm{in}$. |
| 62 | $461 / 4 \mathrm{in}$. | $461 / 4 \mathrm{in}$. |
| 63 | 47 in . | 47 in . |
| 64 | $473 / 4$ in. | 47 3/4 in. |
| 65 | $481 / 2 \mathrm{in}$. | $481 / 2 \mathrm{in}$. |
| 66 | 49 1/4 in. | $491 / 4 \mathrm{in}$. |
| 67 | 50 in . | 50 in . |
| 68 | $501 / 4 \mathrm{in}$. | $501 / 4 \mathrm{in}$. |
| 69 | $511 / 2$ in. | $511 / 2 \mathrm{in}$. |
| 70 | $521 / 4 \mathrm{in}$. | $521 / 4 \mathrm{in}$. |
| 71 | 53 in . | 53 in . |
| 72 | $533 / 4$ in. | $533 / 4 \mathrm{in}$. |
| 73 | $541 / 2 \mathrm{in}$. | $541 / 2 \mathrm{in}$. |
| 74 | $551 / 4 \mathrm{in}$. | $551 / 4 \mathrm{in}$. |
| 75 | 56 in . | 56 in. |
| 76 | $563 / 4$ in. | $563 / 4 \mathrm{in}$. |
| 77 | $571 / 2 \mathrm{in}$. | $571 / 2 \mathrm{in}$. |
| 78 | $581 / 4 \mathrm{in}$. | $581 / 4 \mathrm{in}$. |
| 79 | 59 in . | 59 in . |
| 80 | $593 / 4$ in. | $593 / 4 \mathrm{in}$. |
| 81 | 60 1/2 in. | 60 1/2 in. |
| 82 | $611 / 4 \mathrm{in}$. | $611 / 4 \mathrm{in}$. |
| 83 | 62 in . | 62 in . |
| 84 | $623 / 4$ in. | $623 / 4 \mathrm{in}$. |
| 85 | 63 1/2 in. | $631 / 2 \mathrm{in}$. |
| 86 | 64 1/4 in. | $641 / 4 \mathrm{in}$. |
| 87 | 65 in . | 65 in . |
| 88 | $653 / 4 \mathrm{in}$. | $653 / 4 \mathrm{in}$. |
| 89 | 66 1/2 in. | $661 / 2 \mathrm{in}$. |
| 90 | $671 / 4 \mathrm{in}$. | $671 / 4 \mathrm{in}$. |


| Hole quantity per row/column | Daylight width (in) | Daylight height (in) |
| :---: | :---: | :---: |
| 91 | 68 in. | 68 in. |
| 92 | $683 / 4$ in. | $683 / 4 \mathrm{in}$. |
| 93 | 69 1/2 in. | 69 1/2 in. |
| 94 | $701 / 4 \mathrm{in}$. | $701 / 4 \mathrm{in}$. |
| 95 | 71 in . | 71 in . |
| 96 | 713/4 in. | $713 / 4 \mathrm{in}$. |
| 97 | 72 1/2 in. | $721 / 2 \mathrm{in}$. |
| 98 | 73 3/4 in. | 73 3/4 in. |
| 99 | 74 in . | 74 in . |
| 100 | $743 / 4 \mathrm{in}$. | $743 / 4 \mathrm{in}$. |
| 101 | $751 / 2 \mathrm{in}$. | $751 / 2 \mathrm{in}$. |
| 102 | $761 / 4 \mathrm{in}$. | $761 / 4 \mathrm{in}$. |
| 103 | 77 in . | 77 in . |
| 104 | $773 / 4 \mathrm{in}$. | 77 3/4 in. |
| 105 | $781 / 2 \mathrm{in}$. | $781 / 2 \mathrm{in}$. |
| 106 | 79 1/4 in. | 79 1/4 in. |
| 107 | 80 in . | 80 in . |
| 108 | $803 / 4$ in. | $803 / 4 \mathrm{in}$. |
| 109 | 81 1/2 in. | $811 / 2 \mathrm{in}$. |
| 110 | $821 / 4 \mathrm{in}$. | $821 / 4 \mathrm{in}$. |
| 111 | 83 in . | 83 in . |
| 112 | $833 / 4 \mathrm{in}$. | $833 / 4 \mathrm{in}$. |
| 113 | $841 / 2 \mathrm{in}$. | $841 / 2 \mathrm{in}$. |
| 114 | $851 / 4 \mathrm{in}$. | $851 / 4 \mathrm{in}$. |
| 115 | 86 in . | 86 in . |
| 116 | $863 / 4$ in. | $863 / 4 \mathrm{in}$. |
| 117 | $871 / 2 \mathrm{in}$. | $871 / 2 \mathrm{in}$. |
| 118 | $881 / 4 \mathrm{in}$. | $881 / 4 \mathrm{in}$. |
| 119 | 89 in . | 89 in . |
| 120 | $893 / 4$ in. | 89 3/4 in. |

PERFORMANCE DATA

## Sound

$N C=14 L O G A+84 L O G V-218$
$A=\quad$ Free Area, ft2
$\mathrm{V}=\frac{\text { Air Flow, cfm }}{\text { Free Area, } \mathrm{ft}^{2}}$
NC based on 10dB room absorption.

## Negative Static Pressure

S.P. $=1.36\left(\frac{v}{4005}\right)^{2}$
$\mathrm{V}=\frac{\text { Air Flow, cfm }}{\text { Free Area, } \mathrm{ft}^{2}}$
S.P. $=$ Static Pressure Drop, in. w.g.

## Free Area

F.A. $=$ No. of Holes $\times .0017$ (LG50)

$$
.0039 \text { (LG75) }
$$

. 0069 (LG100)
. 0069 (LG250)
Number of holes are determined from Daylight Opening
Schedules

## Example

Determine performance of an LG100 grille with a daylight opening of $6 \mathrm{in} . \times 16 \mathrm{in}$. at 400 cfm .

No. of Holes: 6in. $=5$
16 in. $=13$
$5 \times 13=65$
F.A. $=\quad 65 \times .0069=.449 \mathrm{ft}^{2}$
$V=\quad 400 / .449=891 \mathrm{fpm}$
S.P. $=\quad 1.36\left(\frac{891}{4005}\right)^{2}=.067$ in. w.g.
$N C=14 \operatorname{LOG}(.449)+84 \operatorname{LOG}(891)-218=25$
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