

## PERIMETER FLOOR REGISTER

- Heavy gauge stamped face
- One piece stamped straight hemmed lanced face
- Lances 9/16" on center
- 30° angle of deflection
- Foot-operated multi-shutter air volume control



**300-OS**

## PERIMETER FLOOR REGISTER

- One piece stamped straight hemmed lanced face
- Lances 9/16" on center
- Foot-operated opposed blade damper air volume control
- Order 302-H for unit with mounting holes



**302**

## TOE SPACE GRILLE

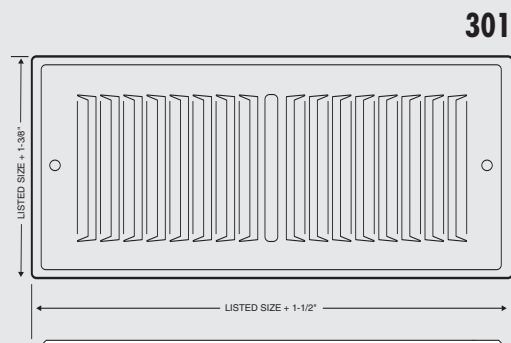
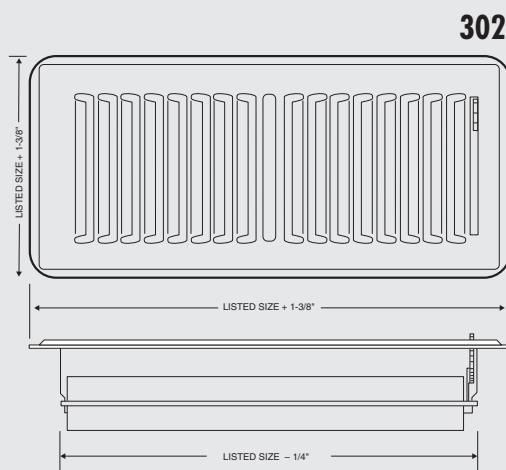
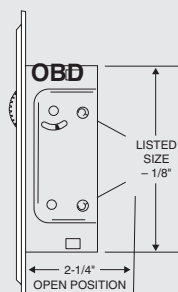
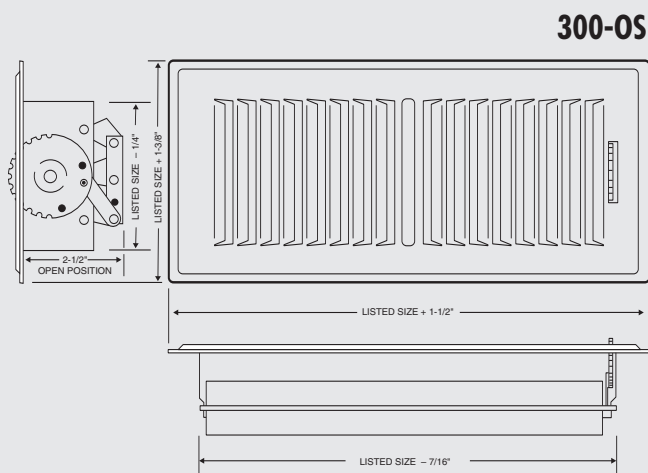
- One piece stamped straight hemmed lanced face
- Lances 9/16" on center



**301**

## Dimensional Information

| DEFLECTION PATTERN    | MODELS/DAMPERS |        |     |
|-----------------------|----------------|--------|-----|
|                       | GRILLE         | MSD    | OBD |
| HEAVY GAUGE PERIMETER | —              | 300-OS | —   |
| PERIMETER             | —              | —      | 302 |
| TOE SPACE             | 301            | —      | —   |



## Series 300

| Series 500 |           |         | CFM  |      |      |      |      |      |      |      |      |      |      |      |
|------------|-----------|---------|------|------|------|------|------|------|------|------|------|------|------|------|
| Size       | Area (AK) | (SQ FT) | 40   | 60   | 80   | 100  | 120  | 140  | 160  | 180  | 200  | 220  | 240  | 260  |
| 2 x 10     | .10       | PT      | .015 | .031 | .053 | .076 | .103 |      |      |      |      |      |      |      |
|            |           | Spread  | 6.0  | 7.5  | 9.0  | 11.0 | 12.1 |      |      |      |      |      |      |      |
|            |           | Throw   | 4.0  | 5.5  | 6.5  | 7.5  | 8.5  |      |      |      |      |      |      |      |
|            |           | VK      | 400  | 600  | 800  | 1000 | 1200 |      |      |      |      |      |      |      |
| 2 x 12     | .12       | PT      | .011 | .022 | .040 | .062 | .089 | .112 |      |      |      |      |      |      |
|            |           | Spread  | 4.5  | 7.0  | 8.0  | 10.5 | 11.6 | 13.0 |      |      |      |      |      |      |
|            |           | Throw   | 4.0  | 5.0  | 6.5  | 7.5  | 8.4  | 10.7 |      |      |      |      |      |      |
|            |           | VK      | 333  | 500  | 667  | 533  | 1000 | 1167 |      |      |      |      |      |      |
| 2 x 14     | .15       | PT      | .009 | .017 | .031 | .045 | .063 | .081 | .090 |      |      |      |      |      |
|            |           | Spread  | 4.0  | 6.0  | 8.0  | 10.0 | 12.5 | 14.5 | 17.1 |      |      |      |      |      |
|            |           | Throw   | 3.5  | 4.5  | 6.0  | 7.0  | 8.0  | 10.5 | 13.0 |      |      |      |      |      |
|            |           | VK      | 267  | 400  | 533  | 667  | 800  | 933  | 1067 |      |      |      |      |      |
| 4 x 10     | .12       | PT      |      | .008 | .013 | .023 | .032 | .037 | .046 | .059 |      |      |      |      |
|            |           | Spread  |      | 5.5  | 7.5  | 9.5  | 11.0 | 13.0 | 15.0 | 18.0 |      |      |      |      |
|            |           | Throw   |      | 4.2  | 6.0  | 6.5  | 7.0  | 9.0  | 11.0 | 13.5 |      |      |      |      |
|            |           | VK      |      | 316  | 421  | 526  | 632  | 736  | 842  | 947  |      |      |      |      |
| 4 x 12     | .24       | PT      |      | .006 | .010 | .016 | .022 | .031 | .040 | .054 | .064 | .071 |      |      |
|            |           | Spread  |      | 5.0  | 7.0  | 9.0  | 10.5 | 12.5 | 14.0 | 16.0 | 18.5 | 19.1 |      |      |
|            |           | Throw   |      | 3.8  | 4.4  | 5.0  | 6.3  | 7.2  | 9.0  | 10.0 | 12.0 | 13.0 |      |      |
|            |           | VK      |      | 250  | 333  | 417  | 500  | 583  | 667  | 750  | 833  | 917  |      |      |
| 4 x 14     | .27       | PT      |      |      | .008 | .012 | .017 | .023 | .031 | .040 | .050 | .057 | .069 |      |
|            |           | Spread  |      |      | 6.0  | 7.5  | 8.5  | 9.7  | 11.5 | 13.5 | 15.0 | 16.5 | 17.5 |      |
|            |           | Throw   |      |      | 4.5  | 5.5  | 6.5  | 7.0  | 8.5  | 9.5  | 10.5 | 12.5 | 13.5 |      |
|            |           | VK      |      |      | 296  | 370  | 444  | 518  | 592  | 667  | 741  | 815  | 889  |      |
| 6 x 10     | .29       | PT      |      |      |      | .008 | .012 | .017 | .023 | .031 | .040 | .050 | .057 | .069 |
|            |           | Spread  |      |      |      | 7.0  | 8.0  | 9.0  | 10.6 | 13.0 | 14.1 | 16.1 | 17.1 | 18.0 |
|            |           | Throw   |      |      |      | 5.0  | 6.0  | 7.0  | 8.0  | 9.0  | 9.8  | 11.0 | 12.0 | 14.0 |
|            |           | VK      |      |      |      | 345  | 414  | 483  | 552  | 621  | 689  | 758  | 828  | 897  |
| 6 x 12     | .35       | PT      |      |      |      |      | .010 | .015 | .018 | .024 | .031 | .041 | .050 | .060 |
|            |           | Spread  |      |      |      |      | 7.5  | 8.8  | 10.1 | 12.1 | 13.4 | 15.5 | 16.5 | 17.6 |
|            |           | Throw   |      |      |      |      | 5.8  | 6.6  | 7.6  | 8.1  | 8.8  | 9.8  | 10.4 | 11.7 |
|            |           | VK      |      |      |      |      | 343  | 400  | 457  | 514  | 571  | 629  | 688  | 743  |
| 6 x 14     | .41       | PT      |      |      |      |      |      | .010 | .014 | .019 | .025 | .033 | .043 | .054 |
|            |           | Spread  |      |      |      |      |      | 8.0  | 9.4  | 11.2 | 12.5 | 13.7 | 16.0 | 17.0 |
|            |           | Throw   |      |      |      |      |      | 6.0  | 7.0  | 7.7  | 8.2  | 9.0  | 10.0 | 11.0 |
|            |           | VK      |      |      |      |      |      | 341  | 390  | 439  | 488  | 537  | 585  | 634  |

Total pressure loss (PT) includes total static (Ps) and velocity (Pv) pressure losses for the floor diffuser only. Spread is horizontal distance of the air pattern and throw is the vertical distance of the air pattern measured in feet to a terminal (Vt) of 50 FPM. Face outlet velocity (Vk) is the averaged face velocity as measured with a 2220A velometer jet. See Figure #1 on page 103 for air flow measurement method.

## Series 302

|        |           |         | CFM  |      |      |      |      |      |        |       |       |      |     |     |
|--------|-----------|---------|------|------|------|------|------|------|--------|-------|-------|------|-----|-----|
| Size   | Area (AK) | (SQ FT) | 30   | 40   | 60   | 80   | 100  | 120  | 140    | 160   | 180   | 200  | 220 | 240 |
| 2 x 10 | .085      | PT      | .007 | .014 | .030 | .058 | .076 |      |        |       |       |      |     |     |
|        |           | Spread  | 3.0  | 5.1  | 7.1  | 9.9  | 13.3 |      |        |       |       |      |     |     |
|        |           | Throw   | 2.4  | 4.7  | 6.1  | 8.3  | 10.1 |      |        |       |       |      |     |     |
|        |           | VK      | 318  | 450  | 687  | 941  | 1106 |      |        |       |       |      |     |     |
| 2 x 12 | .085      | PT      | .005 | .012 | .021 | .042 | .066 |      |        |       |       |      |     |     |
|        |           | Spread  | 3.6  | 4.6  | 7.1  | 8.8  | 10.5 |      |        |       |       |      |     |     |
|        |           | Throw   | 3.2  | 4.2  | 5.7  | 7.0  | 9.6  |      |        |       |       |      |     |     |
|        |           | VK      | 311  | 425  | 588  | 821  | 1027 |      |        |       |       |      |     |     |
| 4 x 10 | .17       | PT      |      | .005 | .011 | .019 | .030 | .042 | .058   | .074  | .096  |      |     |     |
|        |           | Spread  |      | 3.75 | 5.25 | 7.33 | 10   | 11   | 12.875 | 14.5  | 16.5  |      |     |     |
|        |           | Throw   |      | 3.5  | 4.5  | 6.25 | 7.5  | 9    | 10.375 | 12    | 14    |      |     |     |
|        |           | VK      |      | 245  | 355  | 470  | 590  | 710  | 830    | 945   | 1065  |      |     |     |
| 4 x 12 | .195      | PT      |      |      | .008 | .014 | .022 | .080 | .042   | .054  | .071  | .088 |     |     |
|        |           | Spread  |      |      | 5.25 | 6.5  | 7.75 | 9.5  | 11.25  | 13.25 | 14.75 | 17   |     |     |
|        |           | Throw   |      |      | 4.25 | 5.25 | 7.25 | 7.75 | 9.25   | 11    | 12.25 | 13.5 |     |     |
|        |           | VK      |      |      | 310  | 410  | 515  | 615  | 720    | 820   | 925   | 1025 |     |     |

Total pressure loss (PT) includes total static (Ps) and velocity (Pv) pressure losses for the ceiling diffuser only. Spread is horizontal distance of the air pattern and throw is the vertical distance of the air pattern measured in feet to a terminal (Vt) of 50 FPM. Face outlet velocity (Vk) is the averaged face velocity as measured with a 2220A velometer jet.