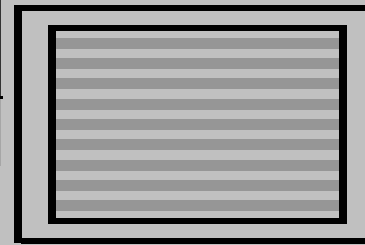


# The Sleek & Lean Look

## Architectural Floor Bar Grilles 6mm pencil proof gap

**MODEL : WB - FBG6** ( Straight through air pattern)

**MODEL : WB - FBG19** (True Angled air pattern)



These modern and sleek diffusers displaces air within the required occupied or intended space. Hence saving energy and construction work. And with it at low levels, cleaning and maintenance is feasible now. Be it to supply air or to exhaust air, warm air or cool air, the WB-FBG range works efficiently and blends with various architectural concepts. With it's effective distribution at low to mid and even high velocities, it is the most sought after air distribution device in modern designs. It will take up shopping malls, huge halls, computer rooms, offices and even industrial premises.

### Different frame styles

#### FLAT BAR

- 4.76mm face
- 6.35mm face
- 9.53mm face



#### L Frame

- 15mm
- 20mm
- 25.4mm

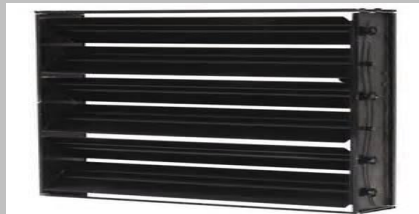


#### Mitre Corners



### Accessories

#### Opposed Blade Damper



#### Pattern Controller



#### Blank off plates



### Different Materials

Aluminum

Galvanised Steel

Stainless Steel

Wood Plastic Composite (non loading model)

## PERFORMANCE DATA

| <b>1200 x 100</b> |             | <b>m/s</b> | <b>0.66</b> | <b>0.91</b> | <b>1.23</b> | <b>1.67</b> | <b>2.52</b> | <b>3.34</b> | <b>4.18</b> | <b>5.03</b> | <b>5.85</b> | <b>6.70</b> | <b>7.52</b> | <b>8.34</b> |
|-------------------|-------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Q (cmh)           |             |            | 143         | 197         | 265         | 360         | 544         | 720         | 904         | 1087        | 1264        | 1448        | 1624        | 1801        |
| Q (cfm)           |             |            | 84.00       | 116.00      | 156.00      | 212.00      | 320.00      | 424.00      | 532.00      | 640.00      | 744.00      | 852.00      | 956.00      | 1060.00     |
| SP(pa)            |             |            | <5          | <5          | <5          | <5          | 7.50        | 10.00       | 17.50       | 25.00       | 32.50       | 40.00       | 52.50       | 65.00       |
| NC                |             |            | <15         | <15         | 16.5        | 18.8        | 21.5        | 22.5        | 25          | 29          | 34          | 37          | 40          | 43          |
| Side Wall         | T.hori@0.5  |            | 0.85        | 1.37        | 1.83        | 2.44        | 3.96        | 5.18        | 6.40        | 7.62        | 8.53        | 9.14        | 10.67       | 11.73       |
|                   | T.hori@0.25 |            | 1.19        | 1.91        | 2.53        | 3.35        | 5.18        | 6.40        | 7.92        | 9.14        | 10.36       | 11.28       | 12.80       | 14.08       |
| Floor or Sill     | T.Vert@0.5  |            | 0.52        | 0.67        | 0.85        | 0.91        | 2.74        | 3.96        | 4.88        | 6.10        | 7.01        | 7.62        | 8.53        | 9.17        |
|                   | T.Vert@0.25 |            | 0.55        | 0.72        | 0.88        | 0.91        | 2.74        | 3.96        | 5.18        | 6.40        | 7.32        | 7.92        | 8.53        | 9.17        |

| <b>1200 x 150</b> |             | <b>m/s</b> | <b>0.57</b> | <b>0.84</b> | <b>1.26</b> | <b>1.87</b> | <b>2.79</b> | <b>3.73</b> | <b>4.66</b> | <b>5.58</b> | <b>6.50</b> | <b>7.45</b> | <b>8.39</b> | <b>9.44</b> |
|-------------------|-------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Q (cmh)           |             |            | 183         | 272         | 408         | 605         | 904         | 1210        | 1509        | 1808        | 2107        | 2413        | 2718        | 3058        |
| Q (cfm)           |             |            | 108.00      | 160.00      | 240.00      | 356.00      | 532.00      | 712.00      | 888.00      | 1064.00     | 1240.00     | 1420.00     | 1600.00     | 1800.00     |
| SP(pa)            |             |            | <5          | <5          | <5          | <5          | 7.50        | 10.00       | 17.50       | 25.00       | 32.50       | 40.00       | 52.50       | 65.00       |
| NC                |             |            | <15         | <15         | <15         | 16.5        | 19.5        | 21          | 24          | 26          | 30          | 33          | 36          | 39          |
| Side Wall         | T.hori@0.5  |            | 0.73        | 1.16        | 2.26        | 3.35        | 4.88        | 6.10        | 7.32        | 8.84        | 10.06       | 10.67       | 12.19       | 13.41       |
|                   | T.hori@0.25 |            | 0.93        | 1.48        | 2.90        | 4.27        | 6.10        | 7.32        | 8.84        | 10.36       | 11.89       | 12.50       | 14.02       | 15.42       |
| Floor or Sill     | T.Vert@0.5  |            | 0.34        | 0.61        | 0.99        | 1.52        | 3.05        | 4.57        | 5.79        | 7.01        | 7.62        | 8.84        | 9.45        | 10.16       |
|                   | T.Vert@0.25 |            | 0.36        | 0.66        | 1.06        | 1.68        | 3.35        | 4.88        | 6.25        | 7.47        | 8.08        | 9.45        | 10.21       | 10.98       |

| <b>1200 x 200</b> |             | <b>m/s</b> | <b>0.58</b> | <b>0.80</b> | <b>1.07</b> | <b>1.46</b> | <b>2.20</b> | <b>2.92</b> | <b>3.66</b> | <b>4.40</b> | <b>5.12</b> | <b>5.86</b> | <b>6.58</b> | <b>7.30</b> |
|-------------------|-------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Q (cmh)           |             |            | 250         | 345         | 464         | 630         | 951         | 1261        | 1582        | 1903        | 2212        | 2533        | 2842        | 3152        |
| Q (cfm)           |             |            | 147.00      | 203.00      | 273.00      | 371.00      | 560.00      | 742.00      | 931.00      | 1120.00     | 1302.00     | 1491.00     | 1673.00     | 1855.00     |
| SP(pa)            |             |            | <5          | <5          | <5          | <5          | 7.50        | 10.00       | 17.50       | 25.00       | 32.50       | 40.00       | 52.50       | 65.00       |
| NC                |             |            | <15         | <15         | 17.5        | 19.5        | 22          | 24          | 25.5        | 32          | 36.5        | 40          | 43          | 46.5        |
| Side Wall         | T.hori@0.5  |            | 0.92        | 1.47        | 1.97        | 2.62        | 4.26        | 5.57        | 6.88        | 8.19        | 9.17        | 9.83        | 11.47       | 12.61       |
|                   | T.hori@0.25 |            | 1.28        | 2.06        | 2.72        | 3.60        | 5.57        | 6.88        | 8.52        | 9.83        | 11.14       | 12.12       | 13.76       | 15.14       |
| Floor or Sill     | T.Vert@0.5  |            | 0.56        | 0.72        | 0.92        | 0.98        | 2.95        | 4.26        | 5.24        | 6.55        | 7.54        | 8.19        | 9.17        | 9.86        |
|                   | T.Vert@0.25 |            | 0.60        | 0.77        | 0.95        | 0.98        | 2.95        | 4.26        | 5.57        | 6.88        | 7.86        | 8.52        | 9.17        | 9.86        |

| <b>NC corrections</b> | Length               | 300 | 600 | <b>1200</b> | 1500 | 2400 | 3000 | 4500 | 6000 | 7500 | 9000 |
|-----------------------|----------------------|-----|-----|-------------|------|------|------|------|------|------|------|
|                       | NC Correction factor | -6  | -3  | <b>0</b>    | 2    | 3    | 4    | 6    | 9    | 13   | 18   |

### Notes

Floor grilles are load tested by PSB for 5KN/sqm proof load. Unit tested with 25.4mm frame. Units are tested with air plenum boxes in accordance to Air Diffusion Council ADC Code 1062: GRD-84 and ASHRAE 70-72. Throw in meters with a cooling temperature differential of 20 deg F at a terminal velocity of 0.5m/s and 0.25m/s. Pressures in Pascal. NC values based on room absorption of 10dB re10 to power 12 watts. For return applications, add 4 to NC and multiply 0.8 for negative static pressure.