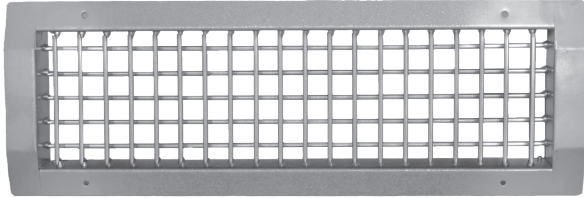


Square air grille for round spiral ducts



Description

SGR air supply/exhaust grilles are installed directly and lengthwise on the round ducts and fastened with screws. The grille has been designed so that the bezel flange fits tightly to the round surface of the duct, whatever the duct diameter. The grille is made of galvanized steel sheet without tack or seam welds. As a result, it requires no anti-corrosion protection and its finish matches that of the ductwork. The grille can be optionally fitted with single or double louvre blades positioned horizontally and vertically. The louvre blade angle is adjusted manually. The air grille can also be fitted with the SGR-DA sliding angle damper.

The grille can be finished by powder coating in any RAL colour.

SGR grille versions

SGR-0 Single louvre blades



SGR-1 Double louvre blade



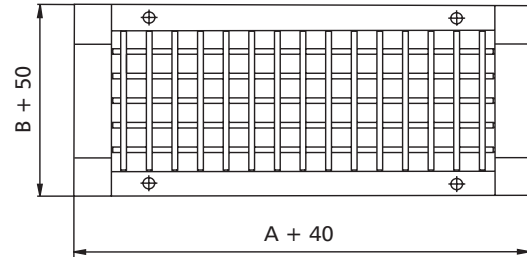
Available materials — Product code examples
SGR-...-...- galvanized steel sheet

Product code example

Product code: **SGR - a - bbb - ccc**

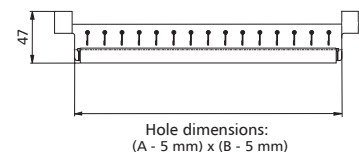
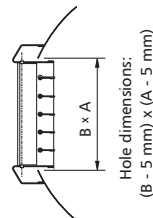
type _____
version _____
dimension A _____
dimension B _____

Dimensions



| Dimensions A x B (mm) | Min. duct size (mm) | Max. duct size (mm) | Area (m ²) | Weight of SGR-0 (kg) | Weight of SGR-1 (kg) |
|-----------------------------|---------------------------|------------------------|---------------------------|----------------------------|----------------------------|
| 325x75 | 160 | 400 | 0.024 | 0.9 | 1.2 |
| 425x75 | 160 | 400 | 0.032 | 1.1 | 1.4 |
| 525x75 | 160 | 400 | 0.039 | 1.3 | 1.7 |
| 625x75 | 160 | 400 | 0.047 | 1.5 | 1.9 |
| 825x75 | 160 | 400 | 0.062 | 1.7 | 1.9 |
| 325x125 | 250 | 900 | 0.040 | 1.3 | 1.7 |
| 425x125 | 250 | 900 | 0.053 | 1.5 | 1.8 |
| 525x125 | 250 | 900 | 0.066 | 1.7 | 2.0 |
| 625x125 | 250 | 900 | 0.078 | 2.1 | 2.4 |
| 825x125 | 250 | 900 | 0.103 | 2.5 | 3.0 |
| 325x225 | 500 | 900 | 0.073 | 1.9 | 2.4 |
| 425x225 | 500 | 1400 | 0.096 | 2.7 | 3.0 |
| 525x225 | 500 | 1400 | 0.118 | 3.1 | 3.4 |
| 625x225 | 500 | 1400 | 0.141 | 3.4 | 3.7 |
| 825x225 | 500 | 1400 | 0.186 | 4.8 | 5.1 |

Dimension of the installation



Square air grille for round spiral ducts

Technical specifications

Selection table

| Air flow (m ³ /h) | A x B | 425 x 75 | 525 x 75 | 625 x 75 | 425 x 125 | 525 x 125 | 625 x 125 | 425 x 225 | 525 x 225 | 625 x 225 | 825 x 225 |
|---------------------------------|------------------------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | Pole (m ²) | 0,0130 | 0,0160 | 0,0190 | 0,0250 | 0,0310 | 0,0370 | 0,0490 | 0,0610 | 0,0730 | 0,0970 |
| 200 | X (m) | 5,1 | 4,6 | | | | | | | | |
| | L _A (dB) | 24 | 20 | | | | | | | | |
| | Pt (Pa) | 12 | 8 | | | | | | | | |
| 250 | X (m) | 6,4 | 5,7 | 5,3 | | | | | | | |
| | L _A (dB) | 29 | 25 | 22 | | | | | | | |
| | Pt (Pa) | 19 | 12 | 9 | | | | | | | |
| 300 | X (m) | 7,6 | 6,9 | 6,3 | 5,5 | | | | | | |
| | L _A (dB) | 33 | 29 | 26 | 21 | | | | | | |
| | Pt (Pa) | 27 | 18 | 13 | 7 | | | | | | |
| 350 | X (m) | 8,9 | 8 | 7,4 | 6,4 | 5,8 | | | | | |
| | L _A (dB) | 37 | 33 | 30 | 24 | 20 | | | | | |
| | Pt (Pa) | 37 | 24 | 17 | 10 | 6 | | | | | |
| 400 | X (m) | 10,2 | 9,2 | 8,4 | 7,3 | 6,6 | 6 | | | | |
| | L _A (dB) | 40 | 36 | 33 | 28 | 23 | 20 | | | | |
| | Pt (Pa) | 48 | 32 | 23 | 13 | 8 | 6 | | | | |
| 450 | X (m) | 11,5 | 10,3 | 9,5 | 8,3 | 7,4 | 6,8 | | | | |
| | L _A (dB) | 43 | 39 | 36 | 31 | 26 | 23 | | | | |
| | Pt (Pa) | 61 | 40 | 29 | 17 | 11 | 8 | | | | |
| 500 | X (m) | | 11,5 | 10,5 | 9,2 | 8,2 | 7,6 | 6,6 | | | |
| | L _A (dB) | | 42 | 38 | 33 | 29 | 25 | 20 | | | |
| | Pt (Pa) | | 50 | 35 | 20 | 13 | 9 | 5 | | | |
| 600 | X (m) | | | 12,6 | 11 | 9,9 | 9,1 | 7,9 | 7,1 | | |
| | L _A (dB) | | | 43 | 38 | 33 | 30 | 24 | 20 | | |
| | Pt (Pa) | | | 51 | 29 | 19 | 13 | 8 | 5 | | |
| 700 | X (m) | | | | 12,9 | 11,5 | 10,6 | 9,2 | 8,2 | 7,5 | |
| | L _A (dB) | | | | 41 | 37 | 34 | 28 | 24 | 20 | |
| | Pt (Pa) | | | | 40 | 26 | 18 | 10 | 7 | 5 | |
| 800 | X (m) | | | | 14,7 | 13,2 | 12,1 | 10,5 | 9,4 | 8,6 | |
| | L _A (dB) | | | | 45 | 40 | 37 | 31 | 27 | 24 | |
| | Pt (Pa) | | | | 52 | 34 | 24 | 14 | 9 | 6 | |
| 900 | X (m) | | | | | 14,8 | 13,6 | 11,8 | 10,6 | 9,7 | 8,4 |
| | L _A (dB) | | | | | 43 | 40 | 34 | 30 | 26 | 21 |
| | Pt (Pa) | | | | | 43 | 30 | 17 | 11 | | |
| 1 000 | X (m) | | | | | | 15,1 | 13,1 | 11,8 | 10,8 | 9,3 |
| | L _A (dB) | | | | | | 42 | 37 | 33 | 29 | 23 |
| | Pt (Pa) | | | | | | 37 | 21 | 14 | 10 | 5 |
| 1 200 | X (m) | | | | | | | 15,7 | 14,1 | 12,9 | 11,2 |
| | L _A (dB) | | | | | | | 41 | 37 | 33 | 28 |
| | Pt (Pa) | | | | | | | 31 | 20 | 14 | |
| 1 400 | X (m) | | | | | | | 18,4 | 16,5 | 15,1 | 13,1 |
| | L _A (dB) | | | | | | | 45 | 41 | 37 | 32 |
| | Pt (Pa) | | | | | | | 42 | 27 | 19 | 11 |
| 1 600 | X (m) | | | | | | | | 18,8 | 17,2 | 14,9 |
| | L _A (dB) | | | | | | | | 44 | 40 | 35 |
| | Pt (Pa) | | | | | | | | 35 | 24 | 14 |
| 1 800 | X (m) | | | | | | | | | 19,4 | 16,8 |
| | L _A (dB) | | | | | | | | | 43 | 38 |
| | Pt (Pa) | | | | | | | | | 31 | 18 |
| 2 000 | X (m) | | | | | | | | | | 18,7 |
| | L _A (dB) | | | | | | | | | | 40 |
| | Pt (Pa) | | | | | | | | | | 22 |

P_t(Pa) — pressure drop

L_A(dB(A)) — sound pressure level