

Outdoor grilles ARN



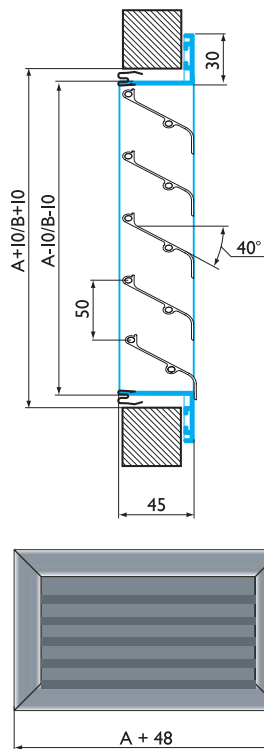
Aluminum external grilles ARN are intended for intake of fresh air and venting of polluted air out of buildings.

Grilles are designed in the shape of a rectangular frame with fixed louvers mounted inside it. The form of the louvers is such as to provide separation of moisture drops out of ambient air and prevents ingress of atmospheric precipitations inside. In order to protect grilles against birds, small animals and leaves a protective net can be provided on grilles. Grilles are mounted in the walls of the building by means of spring-loaded clamps, which ensures simplicity and reliability of assembling.

Grilles are made from aluminum and are powder coated white color (RAL 9016). The Customer may order any other color by catalog RAL.

Minimal size of grilles is 100 x 100 mm, maximal 2000 x 2000 mm, spacing – 50 mm.

Data on selection of ARN grilles for sizes available at the works' warehouse are presented in the table. Grilles of any other size can be delivered.



Data for selection of outdoor grilles ARN

| A × B, mm | F _{0'} , m ² | F _{eff'} , m ² | L _A = 25 dB(A) | | | L _A = 35 dB(A) | | | L _A = 45 dB(A) | | |
|--------------------------|-------------------------------------|---------------------------------------|--|--------------------------|--------------------------|--|--------------------------|--------------------------|--|--------------------------|--------------------------|
| | | | L _{0'} , m ³ /h | ΔP _{t'} , Pa | V _{0'} , m/s | L _{0'} , m ³ /h | ΔP _{t'} , Pa | V _{0'} , m/s | L _{0'} , m ³ /h | ΔP _{t'} , Pa | V _{0'} , m/s |
| Air intake / Air venting | | | | | | | | | | | |
| 200 × 200 | 0,04 | 0,01 | 300 | 32 / 40 | 2,3 | 550 | 108 / 135 | 4,2 | - | - | - |
| 400 × 200 | 0,07 | 0,03 | 550 | 25 / 32 | 2,1 | 1000 | 83 / 104 | 3,7 | 1400 | 163 / 204 | 5,2 |
| 300 × 300 | 0,08 | 0,04 | 650 | 28 / 35 | 2,2 | 1100 | 79 / 99 | 3,6 | 1600 | 168 / 210 | 5,3 |
| 500 × 250 | 0,12 | 0,05 | 800 | 21 / 27 | 1,9 | 1400 | 65 / 82 | 3,3 | 2000 | 133 / 166 | 4,7 |
| 500 × 300 | 0,14 | 0,06 | 950 | 21 / 26 | 1,9 | 1600 | 58 / 73 | 3,1 | 2600 | 154 / 193 | 5,1 |
| 400 × 400 | 0,15 | 0,07 | 1000 | 20 / 25 | 1,8 | 1800 | 65 / 81 | 3,3 | 2700 | 146 / 182 | 4,9 |
| 600 × 300 | 0,17 | 0,08 | 1100 | 19 / 24 | 1,8 | 2000 | 63 / 78 | 3,2 | 3200 | 161 / 201 | 5,2 |
| 600 × 350 | 0,20 | 0,09 | 1250 | 18 / 22 | 1,7 | 2400 | 66 / 83 | 3,3 | 3500 | 140 / 175 | 4,8 |
| 700 × 400 | 0,27 | 0,12 | 1600 | 16 / 20 | 1,7 | 3000 | 57 / 72 | 3,1 | 5000 | 160 / 200 | 5,2 |
| 800 × 500 | 0,38 | 0,18 | 2100 | 14 / 17 | 1,5 | 4100 | 52 / 65 | 2,9 | 6800 | 142 / 178 | 4,9 |
| 1000 × 500 | 0,48 | 0,23 | 2500 | 14 / 15 | 1,4 | 5000 | 49 / 61 | 2,9 | 8000 | 125 / 157 | 4,6 |