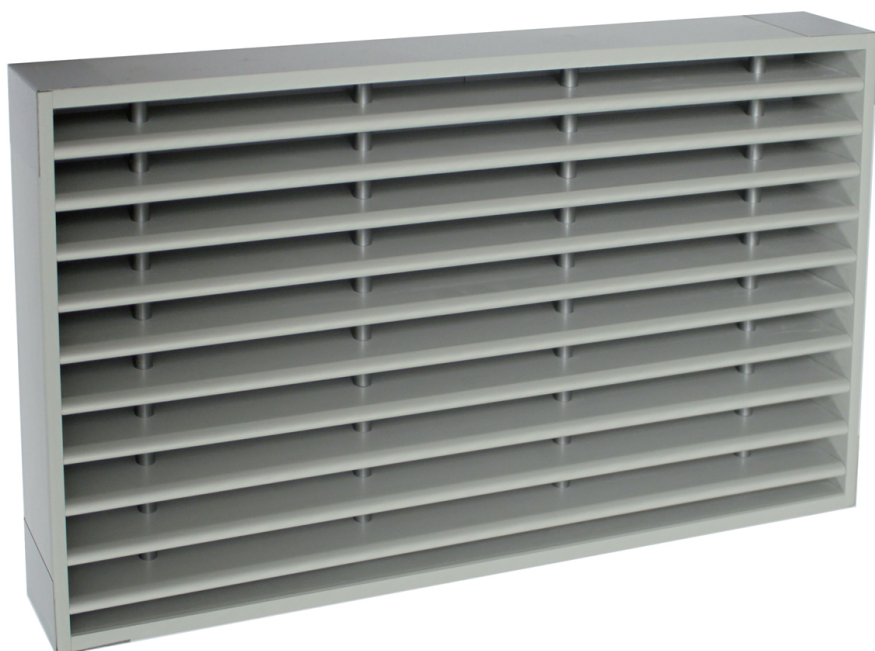


- Fire resistant grille
- Rectangular
- Tested according to EN 1364-1
- Maximum dimensions 800x400mm (LxH)



## Fire resistant grilles type GE90

Rectangular fire resistant ventilation grilles **GE90** are applicable for fire compartmentation within buildings. The grille is made of lamellas, which swell at a temperature of approximately 100°C, thereby closing the opening. The fire resistant grilles are only applicable in systems without pressure or systems where in case of fire, the installation immediately shuts down, thereby assuring no pressure on the fire resistant grilles

### Application

- In fire resistant walls
- Fire resistant up to 1:30 hour
- Vertical installation only
- Not suitable for outdoor use
- Maintenance-free

### Material

- PVC lamellas and frame with intumescent material inside

### Colour

- Grey PVC

### Composition

- Grey PVC lamellas and frame with intumescent material inside

### Mounting

- To be mounted in fire resistant walls by means of standard mortar, silicone **BMS** or plaster **BP**

### Certification

- GE90 grilles are tested and approved according to European standard EN 1364-1

### Accessories

- Fire resistant silicone **BMS**
- Fire resistant plaster **BP**
- Fire resistant PU foam **BAP**

# Fire resistant grilles

## Text for tender

- The fire resistant grilles will be of the type for rectangular openings in fireproof compartmentation walls. The grilles have a fire resistance of 1:30 hour and a free air passage of about 70%. The grilles can only be used in systems where in case of fire no pressure is being applied upon the grille.
- SIG type GE90**

## Order example

- GE90, 500, 200**

*Explanation*

**GE90** = Type of fire resistant grill

**500** = Length of grill

**200** = Height of grill

| Quick selection table |        |        |        |        |        |         |         |         |         |         |         |         |         |         |         |
|-----------------------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| H/L [mm]              | 100    | 150    | 200    | 250    | 300    | 350     | 400     | 450     | 500     | 550     | 600     | 650     | 700     | 750     | 800     |
| 100                   | 24     | 41     | 55.30  | 72.30  | 86.60  | 103.70  | 118     | 135     | 149.30  | 166.30  | 180.60  | 197.60  | 211.90  | 228.90  | 243.20  |
|                       | 62.30  | 100.80 | 133.10 | 171.50 | 203.90 | 242.30  | 274.70  | 313.10  | 345.50  | 383.90  | 416.30  | 454.70  | 487.10  | 525.50  | 557.90  |
| 150                   | 37.30  | 63.60  | 85.60  | 111.90 | 134    | 160.20  | 182.30  | 208.50  | 230.60  | 256.80  | 278.90  | 305.10  | 327.20  | 353.40  | 375.50  |
|                       | 92.40  | 151.80 | 201.60 | 261    | 310.80 | 370.20  | 420     | 479.40  | 529.20  | 588.60  | 638.40  | 697.80  | 747.60  | 807     | 856.80  |
| 200                   | 50.70  | 86.20  | 116    | 151.50 | 181.30 | 216.80  | 246.60  | 282     | 311.90  | 347.30  | 377.10  | 412.60  | 442.40  | 477.90  | 507.70  |
|                       | 122.60 | 202.80 | 270.20 | 350.40 | 417.80 | 498     | 565.40  | 645.60  | 713     | 793.20  | 860.60  | 940.80  | 1008.20 | 1088.40 | 1155.70 |
| 250                   | 64     | 108.70 | 146.30 | 191    | 228.60 | 273.30  | 310.90  | 355.60  | 393.10  | 437.90  | 475.40  | 520.10  | 557.70  | 602.40  | 640     |
|                       | 152.70 | 253.80 | 338.70 | 439.80 | 524.70 | 625.80  | 710.70  | 811.80  | 896.70  | 997.80  | 1082.70 | 1183.80 | 1268.70 | 1369.80 | 1454.70 |
| 300                   | 80.50  | 136.20 | 183    | 238.60 | 285.40 | 341.10  | 387.90  | 443.50  | 490.30  | 546     | 592.80  | 648.40  | 695.20  | 750.90  | 797.70  |
|                       | 190    | 315.90 | 421.60 | 547.50 | 653.20 | 779.10  | 884.80  | 1010.70 | 1116.40 | 1242.20 | 1348    | 1473.80 | 1579.60 | 1705.40 | 1811.20 |
| 350                   | 93.90  | 158.80 | 213.30 | 278.20 | 332.70 | 397.60  | 452.20  | 517.10  | 571.60  | 636.50  | 691     | 756     | 810.50  | 875.40  | 929.90  |
|                       | 220.20 | 366.90 | 490.20 | 636.90 | 760.20 | 906.90  | 1030.10 | 1176.90 | 1300.10 | 1446.90 | 1570.10 | 1716.90 | 1840.10 | 1986.80 | 2110.10 |
| 400                   | 107.20 | 181.30 | 243.60 | 317.80 | 380    | 454.20  | 516.50  | 590.60  | 652.90  | 727     | 789.30  | 863.50  | 925.70  | 999.90  | 1062.20 |
|                       | 250.30 | 417.90 | 558.70 | 726.30 | 867.10 | 1034.70 | 1175.50 | 1343.10 | 1483.90 | 1651.50 | 1792.30 | 1959.90 | 2100.70 | 2268.30 | 2409    |

| Free air passage |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| H/L [mm]         | 100   | 150   | 200   | 250   | 300   | 350   | 400   | 450   | 500   | 550   | 600   | 650   | 700   | 750   | 800   |
| 100              | 0.01  | 0.01  | 0.01  | 0.01  | 0.02  | 0.02  | 0.02  | 0.02  | 0.03  | 0.03  | 0.03  | 0.03  | 0.04  | 0.04  | 0.04  |
|                  | 52.04 | 56.03 | 55.66 | 57.33 | 56.87 | 57.89 | 57.47 | 58.20 | 57.83 | 58.39 | 58.07 | 58.53 | 58.25 | 58.63 | 58.38 |
| 150              | 0.01  | 0.01  | 0.01  | 0.02  | 0.02  | 0.03  | 0.03  | 0.04  | 0.04  | 0.04  | 0.05  | 0.05  | 0.06  | 0.06  | 0.07  |
|                  | 51.77 | 55.85 | 55.46 | 57.17 | 56.69 | 57.73 | 57.30 | 58.05 | 57.67 | 58.25 | 57.92 | 58.39 | 58.09 | 58.49 | 58.23 |
| 200              | 0.01  | 0.01  | 0.02  | 0.03  | 0.03  | 0.04  | 0.04  | 0.05  | 0.05  | 0.06  | 0.07  | 0.07  | 0.08  | 0.08  | 0.09  |
|                  | 51.64 | 55.76 | 55.36 | 57.09 | 56.60 | 57.66 | 57.22 | 57.97 | 57.59 | 58.17 | 57.84 | 58.31 | 58.02 | 58.42 | 58.15 |
| 250              | 0.01  | 0.02  | 0.03  | 0.03  | 0.04  | 0.05  | 0.05  | 0.06  | 0.07  | 0.08  | 0.08  | 0.09  | 0.10  | 0.10  | 0.11  |
|                  | 51.56 | 55.71 | 55.30 | 57.04 | 56.55 | 57.61 | 57.17 | 57.93 | 57.54 | 58.13 | 57.79 | 58.27 | 57.97 | 58.37 | 58.11 |
| 300              | 0.01  | 0.02  | 0.03  | 0.04  | 0.05  | 0.06  | 0.07  | 0.08  | 0.09  | 0.09  | 0.10  | 0.11  | 0.12  | 0.13  | 0.14  |
|                  | 53.33 | 57.55 | 57.09 | 58.87 | 58.34 | 59.44 | 58.97 | 59.75 | 59.35 | 59.95 | 59.60 | 60.09 | 59.78 | 60.19 | 59.91 |
| 350              | 0.02  | 0.03  | 0.04  | 0.05  | 0.06  | 0.07  | 0.08  | 0.09  | 0.10  | 0.11  | 0.12  | 0.13  | 0.14  | 0.15  | 0.16  |
|                  | 53.03 | 57.26 | 56.80 | 58.58 | 58.06 | 59.15 | 58.69 | 59.47 | 59.06 | 59.67 | 59.31 | 59.81 | 59.49 | 59.91 | 59.63 |
| 400              | 0.02  | 0.03  | 0.04  | 0.06  | 0.07  | 0.08  | 0.09  | 0.10  | 0.11  | 0.13  | 0.14  | 0.15  | 0.16  | 0.17  | 0.18  |
|                  | 52.81 | 57.04 | 56.58 | 58.37 | 57.84 | 58.94 | 58.47 | 59.25 | 58.85 | 59.45 | 59.10 | 59.59 | 59.28 | 59.70 | 59.42 |

## Symbols and specifications

- H/L [mm] = Height and Width of grill in mm
- Sn [m²] = Free area given in m²
- Sn [%] = Free area given in %

