



## Fire resistant grilles type GE60XL

Rectangular fire resistant ventilation grilles **GE60XL** are applicable for fire compartmentation within buildings. The grille is made of blades, which swell at a temperature of approximately 100°C, thereby closing the opening. The fire resistant grilles are only applicable in systems without pressure (natural ventilation).

### Application

- In fire resistant walls
- Fire resistant up to 1 hour
- Vertical installation only with blades in horizontal position
- Not suitable for outdoor use
- Maintenance-free

### Material

- PVC lamellas and frame with intumescent material inside

### Colour

- Grey PVC

### Composition

- Grey PVC blades 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

- GE60 grilles are tested and approved according to European standard EN 1364-1
- Classified EI60(ve i<->o) according to EN 13501-3 in rigid wall (aerated concrete ≥ 100 mm)

### Accessories

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

# Fire resistant grilles

## Other available products

- **GE120XL** available on website

## 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 hour and a free air passage of +/- 70%. The grilles can only be used in systems where in case of fire no pressure is being applied upon the grille.
- **SIG** type **GE60XL**

## Order example

- **GE60XL, 800, 600**

Explanation

**GE60XL** = Type of fire resistant grill

**800** = Length of grill

**600** = Height of grill

## Quick selection table

H/L [mm]	200	300	400	500	600	700	800	900	1000	1100	1200	
200								457.20	513.80	570.40	626.90	Q(Δp=2Pa)
								1083.90	1205.90	1327.90	1449.90	Q(Δp=10Pa)
300								805	902.40	999.90	1097.40	Q(Δp=2Pa)
								1833.70	2043.90	2254	2464.10	Q(Δp=10Pa)
400								1115.70	1249.60	1383.60	1517.60	Q(Δp=2Pa)
								2503.50	2792.40	3081.20	3370.10	Q(Δp=10Pa)
500	233	403.50	574	744.40	914.90	1085.40	1255.90	1426.30	1596.80	1767.30	1937.80	Q(Δp=2Pa)
	600.50	968.10	1335.60	1703.20	2070.70	2438.30	2805.80	3173.40	3540.90	3908.50	4276	Q(Δp=10Pa)
600	294.70	506.10	717.40	928.80	1140.10	1351.50	1562.80	1774.10	1985.50	2196.80	2408.20	Q(Δp=2Pa)
	733.60	1189.30	1644.90	2100.60	2556.20	3011.90	3467.60	3923.20	4378.90	4834.60	5290.20	Q(Δp=10Pa)
700	349.80	597.70	845.60	1093.40	1341.30	1589.10	1837	2084.80	2332.70	2580.50	2828.40	Q(Δp=2Pa)
	852.50	1386.80	1921.20	2455.60	2989.90	3524.30	4058.70	4593.10	5127.40	5661.80	6196.20	Q(Δp=10Pa)
800	411.60	700.30	989	1277.70	1566.50	1855.20	2143.90	2432.60	2721.40	3010.10	3298.80	Q(Δp=2Pa)
	985.50	1608	2230.50	2853	3475.50	4097.90	4720.40	5342.90	5965.40	6587.90	7210.40	Q(Δp=10Pa)

## Symbols and specifications

- H/L [mm] = Height and Width of grille in mm
- Q [m³/h] = Air volume in m³/h
- Δp 2Pa = Pressure loss of 2 Pa over the grille
- Δp 10Pa = Pressure loss of 10 Pa over the grille

## Free air passage

H/L [mm]	200	300	400	500	600	700	800	900	1000	1100	1200	
200								0.08	0.09	0.09	0.10	Sn [m²]
								42.68	42.93	43.13	43.30	Sn [%]
300								0.13	0.15	0.16	0.18	Sn [m²]
								49	49.29	49.52	49.71	Sn [%]
400								0.18	0.20	0.22	0.25	Sn [m²]
								50.52	50.81	51.05	51.25	Sn [%]
500	0.04	0.07	0.10	0.12	0.15	0.18	0.20	0.23	0.26	0.29	0.31	Sn [m²]
	41.07	45.51	47.73	49.06	49.95	50.58	51.06	51.43	51.73	51.97	52.17	Sn [%]
600	0.05	0.08	0.12	0.15	0.19	0.22	0.25	0.29	0.32	0.35	0.39	Sn [m²]
	42.43	47.02	49.31	50.69	51.60	52.26	52.75	53.13	53.44	53.69	53.90	Sn [%]
700	0.06	0.10	0.14	0.18	0.22	0.26	0.30	0.34	0.38	0.42	0.46	Sn [m²]
	42.65	47.26	49.57	50.95	51.87	52.53	53.03	53.41	53.72	53.97	54.18	Sn [%]
800	0.07	0.12	0.16	0.21	0.25	0.30	0.35	0.39	0.44	0.48	0.53	Sn [m²]
	43.47	48.17	50.52	51.93	52.87	53.54	54.05	54.44	54.75	55.01	55.22	Sn [%]

## Symbols and specifications

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

