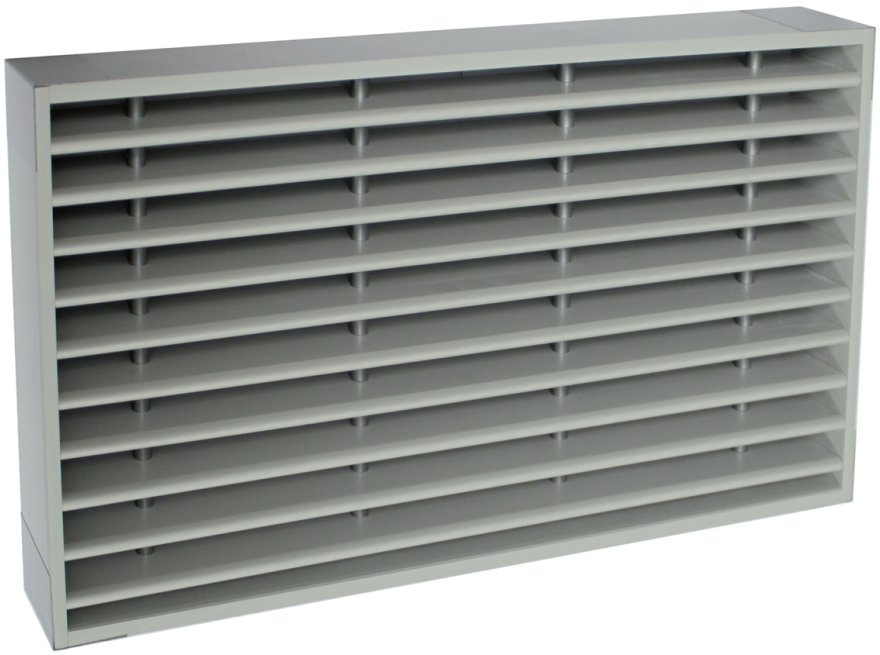

Fire resistant grilles type GE60

Rectangular fire resistant ventilation grilles **GE60** are applicable for fire compartimentation 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 **FP402** or plaster **BP**

Certification

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

Accessories

- Fire resistant silicone, type **FP402**
- Fire resistant plaster, type **BP**
- Fire resistant PU foam, type **BAP**
- Fixe finishing frame, type **GzKF**

Other available products

- **GE120** available on website

Text for tender

- The fire resistant grilles will be of the type for rectangular openings in fireproof compartimentation 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 **GE60**

Order example

- **GE60, 500, 200**

Explanation
GE60 = 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	Q(Δp=2Pa)
	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	Q(Δp=10Pa)
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	Q(Δp=2Pa)
	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	Q(Δp=10Pa)
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	Q(Δp=2Pa)
	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	Q(Δp=10Pa)
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	Q(Δp=2Pa)
	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	Q(Δp=10Pa)
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	Q(Δp=2Pa)
	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	Q(Δp=10Pa)
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	Q(Δp=2Pa)
	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	Q(Δp=10Pa)
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	Q(Δp=2Pa)
	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	Q(Δp=10Pa)

Symbols and specifications

- H/L [mm] = Height and Width of grille in mm
- Q[m³/h] = Air volume in m³/h
- Δp2Pa = Pressure loss of 2 Pa over the grille
- Δp10Pa = Pressure loss of 10 Pa over the grille

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	Sn [m²]
	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	Sn [%]
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	Sn [m²]
	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	Sn [%]
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	Sn [m²]
	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	Sn [%]
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	Sn [m²]
	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	Sn [%]
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	Sn [m²]
	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	Sn [%]
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	Sn [m²]
	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	Sn [%]
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	Sn [m²]
	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	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 %