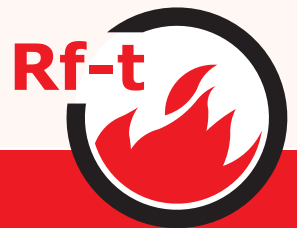




PATENT PENDING



Ge60-XL

Fire resistant ventilation grill

G3-B 06/2011

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PRODUCT PRESENTATION

The Ge60-XL vision fire resistant rectangular ventilation grills are installed in rigid walls to prevent the propagation of fire. They have been especially designed for larger dimensions up to 1200x800mm. The Ge60-XL grill is composed of plastic sleeves filled with intumescent strips and finished with a frame in HDF (High-density fibreboard). The rectangular fire resistant grill Ge60-XL has a fire resistance up to 60'.

- Tested according to EN 1364-1
- Suitable for mounting in rigid wall
- Plastic profiles, filled with intumescent material (from 100°C)
- HDF frame
- Vision
- For interior applications
- Maintenance-free
- Avoid contact with water

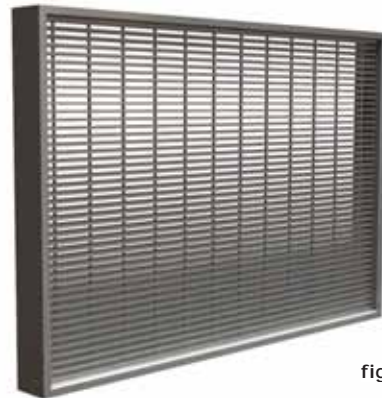


fig. Ge60-XL

RANGE

Ge60-XL	H/W [mm]	200	300	400	500	600	700	800	900	1000	1100	1200
	200	Ge60/Gz60								<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
300	Ge60/Gz60								<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
400	Ge60/Gz60								<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
500	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
600	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
700	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
800	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

FIRE CLASSIFICATION ACCORDING TO EN 1364-1

Rigid wall	Concrete wall 100mm	EI 60 (ve)
		EW 60 (ve)

ve = ventilation grill directly installed in a wall
 E = integrity
 I = thermal insulation
 W = radiation

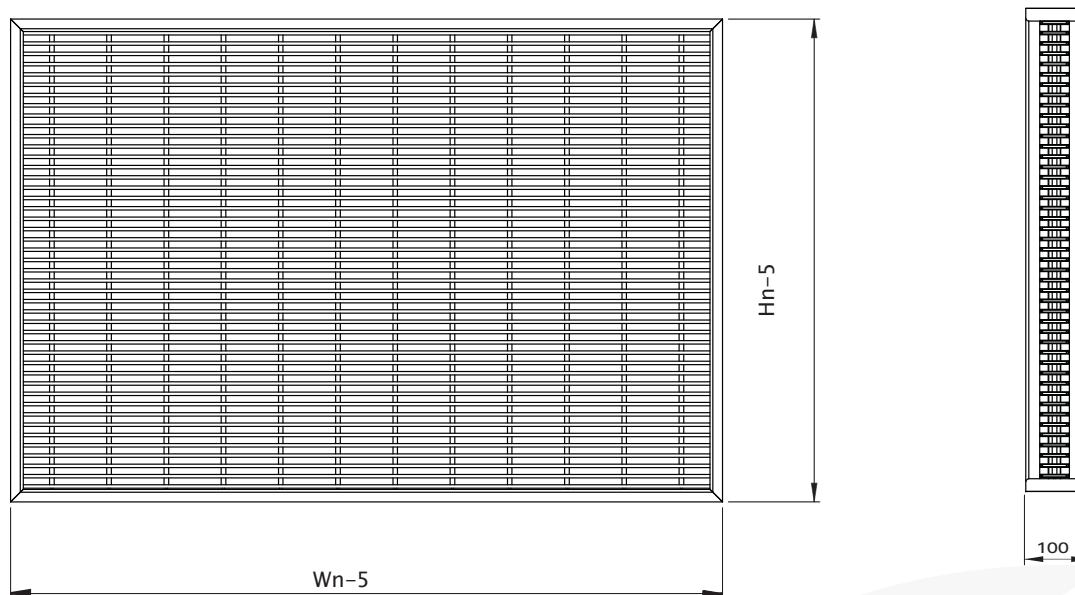
APPROVALS AND TEST REPORTS

All our grills are submitted to tests by official test institutes. Reports of these tests form the basis for the approvals of our grills.



ISO : Certificaat: ISO 9001:2008

DIMENSIONS



STORAGE AND HANDLING

As the fire resistant grill is a safety element it needs to be stored and handled with care.

Attention:

- Avoid any kind of damage
- Avoid contact with water
- Avoid contact with heat

MAINTENANCE AND CLEANING

Use a soft tissue to remove any dust on the surface. Do not use a scrub sponge, alkaline/acid cleanser or solvents such as alcohol and thinner. The use of such materials can damage the grill.

INSTALLATION

- The grill must be installed with the profiles horizontally
- Installation must be carried out in accordance with the test report
- Fire resistant grills are not suited for mechanical ventilation applications.

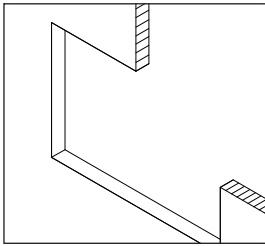
The fire resistant grill Ge60-XL was tested in standardized supporting constructions, according to EN 1364-1. The achieved results are valid for similar supporting constructions with a thickness and/or density equal or superior to the supporting construction used during the test.

Examples of similar constructions

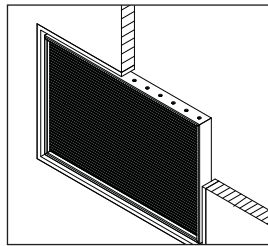
aerated concrete wall thickness 100mm + density 550 kg/m ³ + fire resistance ≥ 60'	brick wall in hollow or full bricks, reinforced concrete, concrete light concrete, ...
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Installation in massive wall

The grill was tested in an aerated concrete wall with a thickness of 100mm.



1. Provide a min. installation opening in the wall = $W_n \times H_n$.



2. Mount the grill in the wall.
3. Fill the remaining joint between the grill and the wall with standard concrete mortar

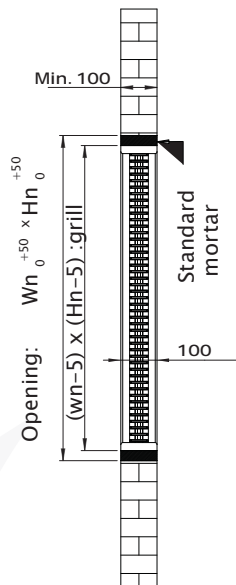


fig. Ge60-XL
installation in massive wall



TECHNICAL DATA

Fire resistant grill	Ge60-XL
Description	Fire resistant ventilation grill
Classification	EI 60 / EW 60 (ve) – mounting in rigid wall 100mm
Operation	The intumescent material starts to swell at 100 °C
Operating pressure	-5 up to +10 Pa
Installation direction	Slats placed horizontally
Air movement	Random
Fire side	Random
Operating temperature	Max 60°C
Environment	For interior use
Maintenance	Maintenance-free

FREE AIR PASSAGE [M²]

H/W [mm]	200	300	400	500	600	700	800	900	1000	1100	1200	
200								0,07683	0,08586	0,09488	0,10391	Sn [m ²]
								42,68	42,93	43,13	43,30	Sn [%]
300								0,13231	0,14786	0,16341	0,17896	Sn [m ²]
								49,00	49,29	49,52	49,71	Sn [%]
400								0,18188	0,20325	0,22462	0,24599	Sn [m ²]
								50,52	50,81	51,05	51,25	Sn [%]
500	0,04107	0,06826	0,09546	0,12265	0,14985	0,17705	0,20424	0,23144	0,25863	0,28583	0,31303	Sn [m ²]
	41,07	45,51	47,73	49,06	49,95	50,58	51,06	51,43	51,73	51,97	52,17	Sn [%]
600	0,05091	0,08463	0,11834	0,15206	0,18578	0,21949	0,25321	0,28692	0,32064	0,35436	0,38807	Sn [m ²]
	42,43	47,02	49,31	50,69	51,60	52,26	52,75	53,13	53,44	53,69	53,90	Sn [%]
700	0,05971	0,09925	0,13879	0,17833	0,21787	0,25741	0,29695	0,33649	0,37603	0,41557	0,45511	Sn [m ²]
	42,65	47,26	49,57	50,95	51,87	52,53	53,03	53,41	53,72	53,97	54,18	Sn [%]
800	0,06955	0,11561	0,16167	0,20773	0,25379	0,29985	0,34591	0,39197	0,43803	0,48409	0,53015	Sn [m ²]
	43,47	48,17	50,52	51,93	52,87	53,54	54,05	54,44	54,75	55,01	55,22	Sn [%]

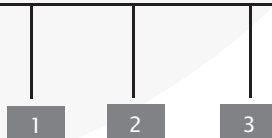
WEIGHT

H/L [mm]	200	300	400	500	600	700	800	900	1000	1100	1200
200								4,7	5,3	5,8	6,3
300								6,5	7,2	7,9	8,6
400								8,6	9,5	10,4	11,3
500	3,7	4,9	6,2	7,4	8,7	9,9	11,2	10,4	11,4	12,5	13,5
600	4,2	5,7	7,1	8,5	10,0	11,4	12,8	14,2	15,7	17,1	18,5
700	4,9	6,5	8,2	9,8	11,4	13,1	14,7	16,3	17,9	19,6	21,2
800	5,5	7,3	9,1	10,9	12,7	14,5	16,3	18,1	19,9	21,7	23,5

SAMPLE ORDER

Sample order =

Ge60-XL 800 600



- 1 Type of grill
- 2 Width
- 3 Height

If the grill is manipulated in any other way than described in this manual, Rf-Technologies will decline any responsibility and the guarantee will immediately expire.