



Exterior grilles EG



Exterior grilles

EG

Applications:

Exterior grilles are used for protection of exterior vent openings.

Description:

Exterior grilles are provided with fixed blades. Their special configuration prevents precipitation from entering the ventilation ducts, in the same time allowing optimum circulation of air.

Based on customer's requirements, they may be provided with fixed protective filters (against birds or insects) or with detachable air filters.

Material:

Special profiles, made of extruded aluminum, in RITECH design.

Finish:

Electrostatically painted surface, dried in polymerization oven, providing increased lifetime of the paint layer and its pigment. Standard color: WHITE - RAL code 9016. On request, products may be delivered in any RAL color.

Fastening:

Pre-punched $\varnothing 5$ mm holes, on long sides, for recessed-head anchor screw, painted in grille's color. The number and position of holes may be adjusted, if requested in order.

Packaging:

Individual packaging, in polyethylene foil and delivered in cardboard boxes. Corners are protected with cardboard guards.

Technical specifications text-box, for price quotation requests:

Exterior grille with fixed blades, made of extruded aluminum and painted with electrostatic coating;

Color: RAL ####;

Sizes: mm X mm;

Accessories: Plenum box; Damper; Fixed protective net; Detachable air filter;

Type: RITECH EG #####.



Performance table

Product code	A	B	Con- nection area	Free area	Tube V = 2 [m/s]			Tube V = 3 [m/s]			Tube V = 4 [m/s]		
	[mm]	[mm]	[m ²]	[m ²]	Q [m ³ /h]	ΔP [Pa]	Grille V [m/s]	Q [m ³ /h]	ΔP [Pa]	Grille V [m/s]	Q [m ³ /h]	ΔP [Pa]	Grille V [m/s]
EG 010020	100	200	0,020	0.008	424	30,8	5,55	496	53	8,33	568	77	11,11
EG 010030	100	300	0,030	0.012	496	30,8	5,55	604	53	8,33	712	77	11,11
EG 010040	100	400	0,040	0.016	568	30,8	5,55	712	53	8,33	856	77	11,11
EG 010050	100	500	0,050	0.020	640	30,8	5,55	820	53	8,33	1,000	77	11,11
EG 010060	100	600	0,060	0.024	712	30,8	5,55	928	53	8,33	1,144	77	11,11
EG 010070	100	700	0,070	0.028	784	30,8	5,55	1,036	53	8,33	1,288	77	11,11
EG 010080	100	800	0,080	0.032	856	30,8	5,55	1,144	53	8,33	1,432	77	11,11
EG 010090	100	900	0,090	0.036	928	30,8	5,55	1,252	53	8,33	1,576	77	11,11
EG 010100	100	1.000	0,100	0.040	1,000	30,8	5,55	1,360	53	8,33	1,720	77	11,11
EG 010110	100	1.100	0,110	0.044	1,072	30,8	5,55	1,468	53	8,33	1,864	77	11,11
EG 010120	100	1.200	0,120	0.048	1,144	30,8	5,55	1,576	53	8,33	2,008	77	11,11
EG 010130	100	1.300	0,130	0.052	1,216	30,8	5,55	1,684	53	8,33	2,152	77	11,11
EG 010140	100	1.400	0,140	0.055	1,288	30,8	5,55	1,792	53	8,33	2,296	77	11,11
EG 010150	100	1.500	0,150	0.059	1,360	30,8	5,55	1,900	53	8,33	2,440	77	11,11
EG 015020	150	200	0,030	0.012	496	30,8	5,55	604	53	8,33	712	77	11,11
EG 015030	150	300	0,045	0.018	604	30,8	5,55	766	53	8,33	928	77	11,11
EG 015040	150	400	0,060	0.024	712	30,8	5,55	928	53	8,33	1,144	77	11,11
EG 015050	150	500	0,075	0.030	820	30,8	5,55	1,090	53	8,33	1,360	77	11,11
EG 015060	150	600	0,090	0.036	928	30,8	5,55	1,252	53	8,33	1,576	77	11,11
EG 015070	150	700	0,105	0.042	1,036	30,8	5,55	1,414	53	8,33	1,792	77	11,11
EG 015080	150	800	0,120	0.048	1,144	30,8	5,55	1,576	53	8,33	2,008	77	11,11
EG 015090	150	900	0,135	0.054	1,252	30,8	5,55	1,738	53	8,33	2,224	77	11,11
EG 015100	150	1.000	0,150	0.059	1,360	30,8	5,55	1,900	53	8,33	2,440	77	11,11
EG 015110	150	1.100	0,165	0.065	1,468	30,8	5,55	2,062	53	8,33	2,656	77	11,11
EG 015120	150	1.200	0,180	0.071	1,576	30,8	5,55	2,224	53	8,33	2,872	77	11,11
EG 015130	150	1.300	0,195	0.077	1,684	30,8	5,55	2,386	53	8,33	3,088	77	11,11
EG 015140	150	1.400	0,210	0.083	1,792	30,8	5,55	2,548	53	8,33	3,304	77	11,11
EG 015150	150	1.500	0,225	0.089	1,900	30,8	5,55	2,710	53	8,33	3,520	77	11,11
EG 020020	200	200	0,040	0.016	568	30,8	5,55	712	53	8,33	856	77	11,11
EG 020030	200	300	0,060	0.024	712	30,8	5,55	928	53	8,33	1,144	77	11,11
EG 020040	200	400	0,080	0.032	856	30,8	5,55	1,144	53	8,33	1,432	77	11,11
EG 020050	200	500	0,100	0.040	1,000	30,8	5,55	1,360	53	8,33	1,720	77	11,11
EG 020060	200	600	0,120	0.048	1,144	30,8	5,55	1,576	53	8,33	2,008	77	11,11
EG 020070	200	700	0,140	0.055	1,288	30,8	5,55	1,792	53	8,33	2,296	77	11,11
EG 020080	200	800	0,160	0.063	1,432	30,8	5,55	2,008	53	8,33	2,584	77	11,11
EG 020090	200	900	0,180	0.071	1,576	30,8	5,55	2,224	53	8,33	2,872	77	11,11
EG 020100	200	1.000	0,200	0.079	1,720	30,8	5,55	2,440	53	8,33	3,160	77	11,11
EG 020110	200	1.100	0,220	0.087	1,864	30,8	5,55	2,656	53	8,33	3,448	77	11,11
EG 020120	200	1.200	0,240	0.095	2,008	30,8	5,55	2,872	53	8,33	3,736	77	11,11
EG 020130	200	1.300	0,260	0.103	2,152	30,8	5,55	3,088	53	8,33	4,024	77	11,11
EG 020140	200	1.400	0,280	0.111	2,296	30,8	5,55	3,304	53	8,33	4,312	77	11,11
EG 020150	200	1.500	0,300	0.119	2,440	30,8	5,55	3,520	53	8,33	4,600	77	11,11
EG 025020	250	200	0,050	0.020	640	30,8	5,55	820	53	8,33	1,000	77	11,11
EG 025030	250	300	0,075	0.030	820	30,8	5,55	1,090	53	8,33	1,360	77	11,11
EG 025040	250	400	0,100	0.040	1,000	30,8	5,55	1,360	53	8,33	1,720	77	11,11
EG 025050	250	500	0,125	0.050	1,180	30,8	5,55	1,630	53	8,33	2,080	77	11,11
EG 025060	250	600	0,150	0.059	1,360	30,8	5,55	1,900	53	8,33	2,440	77	11,11
EG 025070	250	700	0,175	0.069	1,540	30,8	5,55	2,170	53	8,33	2,800	77	11,11

EG - Exterior grilles

Performance table

Product code	A	B	Con- nection area	Free area	Tube V = 2 [m/s]			Tube V = 3 [m/s]			Tube V = 4 [m/s]		
	[mm]	[mm]	[m ²]	[m ²]	Q [m ³ /h]	ΔP [Pa]	Grille V [m/s]	Q [m ³ /h]	ΔP [Pa]	Grille V [m/s]	Q [m ³ /h]	ΔP [Pa]	Grille V [m/s]
EG 025080	250	800	0,200	0.079	1,720	30,8	5,55	2,440	53	8,33	3,160	77	11,11
EG 025090	250	900	0,225	0.089	1,900	30,8	5,55	2,710	53	8,33	3,520	77	11,11
EG 025100	250	1.000	0,250	0.099	2,080	30,8	5,55	2,980	53	8,33	3,880	77	11,11
EG 025110	250	1.100	0,275	0.109	2,260	30,8	5,55	3,250	53	8,33	4,240	77	11,11
EG 025120	250	1.200	0,300	0.119	2,440	30,8	5,55	3,520	53	8,33	4,600	77	11,11
EG 025130	250	1.300	0,325	0.129	2,620	30,8	5,55	3,790	53	8,33	4,960	77	11,11
EG 025140	250	1.400	0,350	0.139	2,800	30,8	5,55	4,060	53	8,33	5,320	77	11,11
EG 025150	250	1.500	0,375	0.149	2,980	30,8	5,55	4,330	53	8,33	5,680	77	11,11
EG 030030	300	300	0,090	0.036	928	30,8	5,55	1,252	53	8,33	1,576	77	11,11
EG 030040	300	400	0,120	0.048	1,144	30,8	5,55	1,576	53	8,33	2,008	77	11,11
EG 030050	300	500	0,150	0.059	1,360	30,8	5,55	1,900	53	8,33	2,440	77	11,11
EG 030060	300	600	0,180	0.071	1,576	30,8	5,55	2,224	53	8,33	2,872	77	11,11
EG 030070	300	700	0,210	0.083	1,792	30,8	5,55	2,548	53	8,33	3,304	77	11,11
EG 030080	300	800	0,240	0.095	2,008	30,8	5,55	2,872	53	8,33	3,736	77	11,11
EG 030090	300	900	0,270	0.107	2,224	30,8	5,55	3,196	53	8,33	4,168	77	11,11
EG 030100	300	1.000	0,300	0.119	2,440	30,8	5,55	3,520	53	8,33	4,600	77	11,11
EG 030110	300	1.100	0,330	0.131	2,656	30,8	5,55	3,844	53	8,33	5,032	77	11,11
EG 030120	300	1.200	0,360	0.143	2,872	30,8	5,55	4,168	53	8,33	5,464	77	11,11
EG 030130	300	1.300	0,390	0.155	3,088	30,8	5,55	4,492	53	8,33	5,896	77	11,11
EG 030140	300	1.400	0,420	0.166	3,304	30,8	5,55	4,816	53	8,33	6,328	77	11,11
EG 030150	300	1.500	0,450	0.178	3,520	30,8	5,55	5,140	53	8,33	6,760	77	11,11
EG 040040	400	400	0,160	0.063	1,432	30,8	5,55	2,008	53	8,33	2,584	77	11,11
EG 040050	400	500	0,200	0.079	1,720	30,8	5,55	2,440	53	8,33	3,160	77	11,11
EG 040060	400	600	0,240	0.095	2,008	30,8	5,55	2,872	53	8,33	3,736	77	11,11
EG 040070	400	700	0,280	0.111	2,296	30,8	5,55	3,304	53	8,33	4,312	77	11,11
EG 040080	400	800	0,320	0.127	2,584	30,8	5,55	3,736	53	8,33	4,888	77	11,11
EG 040090	400	900	0,360	0.143	2,872	30,8	5,55	4,168	53	8,33	5,464	77	11,11
EG 040100	400	1.000	0,400	0.159	3,160	30,8	5,55	4,600	53	8,33	6,040	77	11,11
EG 040110	400	1.100	0,440	0.174	3,448	30,8	5,55	5,032	53	8,33	6,616	77	11,11
EG 040120	400	1.200	0,480	0.190	3,736	30,8	5,55	5,464	53	8,33	7,192	77	11,11
EG 040130	400	1.300	0,520	0.206	4,024	30,8	5,55	5,896	53	8,33	7,768	77	11,11
EG 040140	400	1.400	0,560	0.222	4,312	30,8	5,55	6,328	53	8,33	8,344	77	11,11
EG 040150	400	1.500	0,600	0.238	4,600	30,8	5,55	6,760	53	8,33	8,920	77	11,11
EG 050050	500	500	0,250	0.099	2,080	30,8	5,55	2,980	53	8,33	3,880	77	11,11

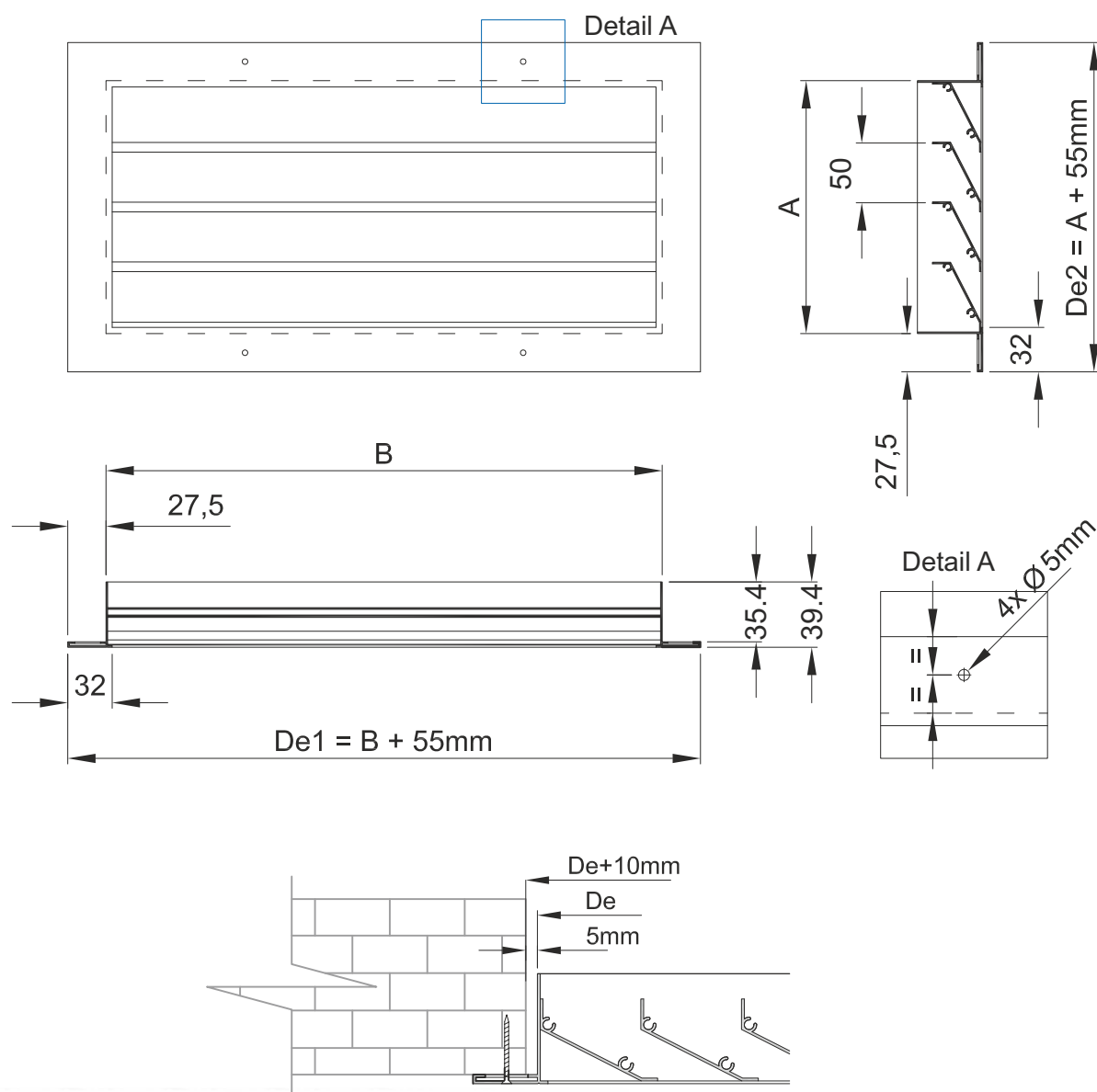
Legend:

Symbol	Description	M.U.
EG	Exterior grille	
A	Grille connection gauge - Width	[mm]
B	Grille connection gauge - Length	[mm]
Connection area	Grille surface for connection gauges (A x B)	[m ²]
Free area	Surface available for air circulation (connection area-blade area)	[m ²]
Q	Air flow	[m ³ /h]
ΔP	Pressure loss through grille	[Pa]
Grille V	Air velocity through grille, calculated based on Flow and Free Area	[m/s]
Tube V	Air velocity in the connection section	[m/s]



Design your environment

Sizes



Engineering tolerance $\pm 2mm$

Example: Code EG020040 represents:

Exterior grille, made of aluminum, with protective metallic net, with $A = 200$ mm; $B = 400$

Accessories: Plenum box: MAG020040

Fixed protective filter

Detachable air filter: MFF

Additional frame

NOTE: Products may be ordered in customized sizes and configurations (colors, number and position of holes, fastening method, blade display, execution of hybrid product, special plenum box etc.)



Design your environment