

RLW & AMG – Return Louvers & Grilles

Model: RLW

RLW grilles are designed for return and exhaust air applications and are complete with 29mm wide blade spacing. Removable and hinged core sections are available for easy access to dampers and removable filter where fitted (Filter non-standard).

All components are manufactured in long lasting maintenance free aluminium extrusion.

Sizes

- RLW maximum one-piece construction size is 2000x2000mm. Larger sizes can be made in multiple sections.
- RLWFR maximum one-piece construction size is 1200x1200mm. Larger sizes can be made in multiple sections.

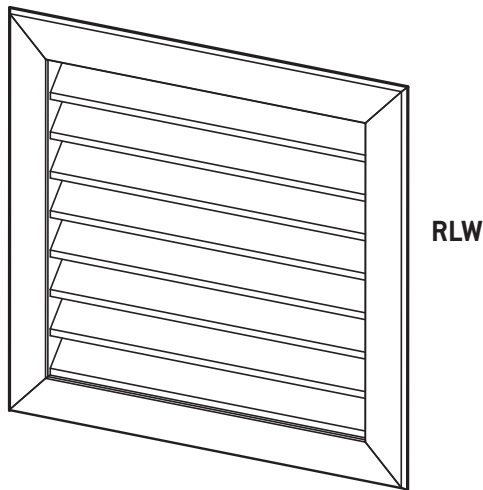
Accessories

OBD - Opposed Blade Damper.

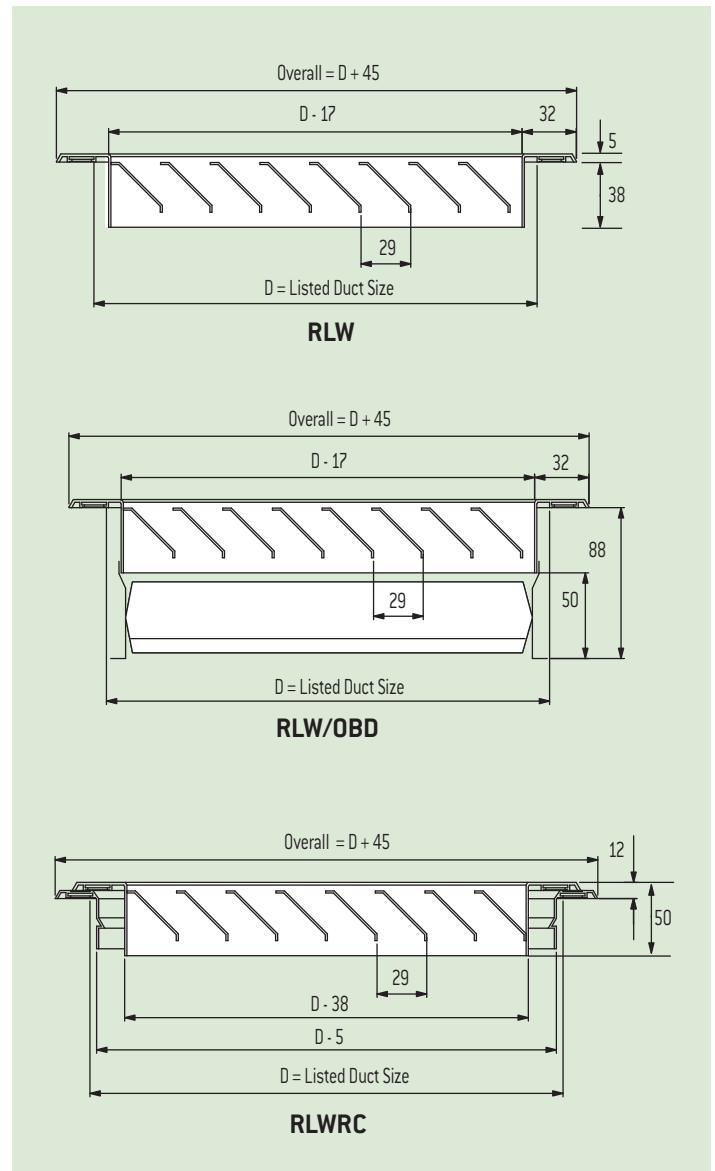
Product Codes

RLWL - Return Louver Wide Spacing – Blades parallel to long dimension.
 RLWS - Return Louver Wide Spacing – Blades parallel to short dimension.
 RLW/OBD - Return Louver Wide Spacing with Opposed blade Damper.
 RLWRC - Return Louver Wide Spacing with Removable Core.
 RLWFR – Return Louver Wide Spacing with Filtered Hinged Frame.

Contact your local Holyoake branch for dimensional details.



RLW



Model: AMG

AMG Grilles can be used in simple return, or exhaust applications. The AMG consists of an aluminium flanged surround and a aluminium diamond mesh core (35mm x 15mm pattern). The AMG can be supplied with a removable core.

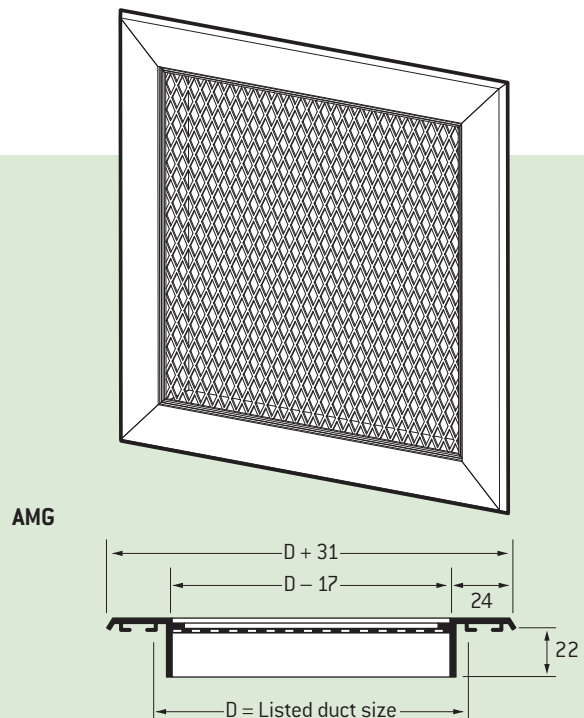
Product Codes

- AMG – Standard Aluminium Mesh Grille.
- AMG/OBD – Aluminium Mesh Grille with opposed blade damper.
- AMGRC – Aluminium Mesh Grille with Removable Core.
- AMGFR – Aluminium Mesh Grille with Filtered Hinged Frame.

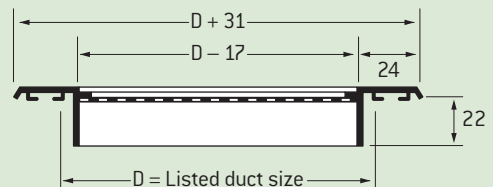
Steel mesh is available as an option.

Consult your local Holyoake branch for further information.

Option: 40mm flanged surround (Excluding FR Models).



AMG



AMG – Performance Data

Model: **AMG**

NC 20

CORE AREA m ²	NOMINAL SIZE (mm)	CORE VEL. m/s	2.02	2.49	2.83	3.40	3.82	4.31	4.76	5.27	5.88	7.12
		VEL. PRESS	3.0	4.2	6.1	8.5	11.1	14.3	17.4	21.1	24.7	37.2
		NEG. SP	8	12	16	23	29	37	45	54	65	88
0.014	175x100 150x125	m ³ /s	0.035	0.042	0.051	0.060	0.069	0.078	0.086	0.095	0.102	0.126
		NC	-	-	-	-	-	-	15	17	20	22
0.017	200x100 150x150 175x125	m ³ /s	0.044	0.053	0.063	0.075	0.086	0.097	0.107	0.118	0.128	0.158
		NC	-	-	-	-	-	-	15	17	20	22
0.020	250x100 175x150 200x125	m ³ /s	0.053	0.063	0.076	0.090	0.103	0.117	0.129	0.142	0.154	0.189
		NC	-	-	-	-	-	-	15	18	20	23
0.028	350x100	m ³ /s	0.071	0.084	0.102	0.120	0.137	0.156	0.172	0.189	0.205	0.252
		NC	-	-	-	-	-	-	15	19	21	23
0.032	400x100 250x150 300x125	m ³ /s	0.076	0.090	0.108	0.128	0.147	0.167	0.184	0.202	0.219	0.270
		NC	-	-	-	-	-	-	15	19	21	23
0.036	450x100 300x150 350x125 200x200	m ³ /s	0.081	0.096	0.116	0.137	0.157	0.178	0.196	0.216	0.234	0.288
		NC	-	-	-	-	-	-	15	20	21	25
0.043	500x100 350x150 400x125 250x200	m ³ /s	0.097	0.117	0.139	0.165	0.185	0.210	0.232	0.255	0.275	0.331
		NC	-	-	-	-	-	15	15	20	22	25
0.048	600x100 400x150 450x125	m ³ /s	0.114	0.138	0.161	0.192	0.213	0.241	0.268	0.293	0.316	0.373
		NC	-	-	-	-	-	15	15	20	22	26
0.056	700x100 450x150 250x250 500x125 300x200	m ³ /s	0.118	0.143	0.167	0.199	0.220	0.249	0.277	0.303	0.326	0.384
		NC	-	-	-	-	-	15	15	20	22	26
0.064	750x100 500x150 300x250 600x125 350x200	m ³ /s	0.135	0.165	0.191	0.228	0.254	0.287	0.318	0.350	0.382	0.455
		NC	-	-	-	-	15	16	18	21	23	28
0.075	900x100 550x150 350x250 700x125 400x200	m ³ /s	0.153	0.187	0.214	0.257	0.287	0.324	0.359	0.396	0.438	0.527
		NC	-	-	-	-	15	18	21	25	28	30
0.084	1000x100 650x150 400x250 750x125 450x200 300x300	m ³ /s	0.170	0.209	0.238	0.286	0.321	0.362	0.400	0.443	0.494	0.598
		NC	-	-	-	15	18	21	25	30	33	35
0.099	1200x100 750x150 350x300 900x125 450x250	m ³ /s	0.196	0.243	0.275	0.332	0.388	0.427	0.475	0.523	0.578	0.709
		NC	-	-	-	15	18	21	25	30	33	35
0.110	850x150 500x250 350x350 600x200 400x300	m ³ /s	0.227	0.284	0.325	0.388	0.443	0.504	0.564	0.618	0.679	0.754
		NC	-	-	-	16	19	22	26	31	33	35
0.124	1500x100 900x150 400x350 1200x125 450x300	m ³ /s	0.255	0.317	0.362	0.436	0.494	0.559	0.629	0.692	0.762	0.881
		NC	-	-	15	18	21	25	30	33	35	37
0.149	1800x100 600x250 450x350 750x200 550x300 400x400	m ³ /s	0.312	0.384	0.435	0.532	0.595	0.670	0.718	0.792	0.876	1.054
		NC	-	-	16	20	23	26	32	35	37	39
0.167	1500x125 900x200 600x300 450x400 750x250 500x350	m ³ /s	0.346	0.424	0.489	0.593	0.646	0.729	0.808	0.891	0.986	1.186
		NC	-	-	18	21	25	27	33	36	39	41
0.193	1000x200 750x300 1500x150 900x250 600x350 450x450	m ³ /s	0.397	0.484	0.569	0.685	0.770	0.869	0.960	1.063	1.186	1.435
		NC	-	16	20	23	26	32	35	37	39	42
0.228	1800x150 800x300 600x400 1200x200 650x350 500x500	m ³ /s	0.412	0.510	0.578	0.697	0.815	0.897	0.998	1.098	1.214	1.489
		NC	-	18	21	25	27	33	36	39	41	43
0.258	900x300 650x400 550x500 750x350 600x450	m ³ /s	0.522	0.653	0.748	0.892	1.019	1.159	1.297	1.421	1.562	1.734
		NC	-	18	21	25	27	33	36	39	41	43
0.289	1500x200 1000x300 750x400 600x500 1200x250 900x350	m ³ /s	0.603	0.750	0.856	1.031	1.168	1.322	1.488	1.637	1.802	2.084
		NC	15	19	22	26	27	33	37	40	42	44
0.335	1800x200 1200x300 750x450 1500x250 900x400 600x600	m ³ /s	0.671	0.826	0.935	1.144	1.279	1.441	1.544	1.703	1.883	2.266
		NC	15	20	23	26	27	33	38	41	43	45
0.399	1200x350 800x500 900x450 700x600	m ³ /s	0.834	1.016	1.195	1.439	1.618	1.824	2.016	2.233	2.490	3.014
		NC	16	21	24	27	28	34	39	42	44	46
0.432	1800x250 900x500 1200x400 750x600	m ³ /s	0.906	1.123	1.271	1.534	1.793	1.973	2.195	2.416	2.670	3.276
		NC	17	22	25	28	29	34	39	42	45	47
0.518	1800x300 1200x450 1500x350 900x600	m ³ /s	1.096	1.372	1.570	1.874	2.140	2.434	2.724	2.985	3.280	3.642
		NC	18	23	26	29	30	35	39	43	46	48
0.581	1800x350 1200x500 1500x400	m ³ /s	1.327	1.649	1.883	2.269	2.570	2.908	3.273	3.600	3.965	4.584
		NC	20	25	27	29	30	35	40	43	46	49

NC 30

NC 40

• Neg. SP is negative static pressure.

• NC values are based on room absorption of 10 db, re 10⁻¹² watts.

• All pressures are in pascals.

• Heavy dividing lines denote ranges of NC values.

Grille Description Code Examples and Suggested Specifications

RLW – **[L S]** – **[RC FR]** – **OBD** – **W x H** – **FINISH**

Return Louver Wide.

Blades Parallel to long, or short dimension.

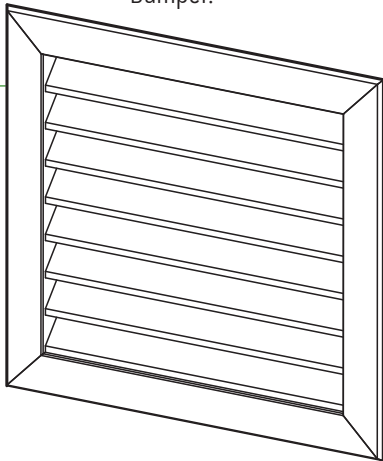
Frame Style (Removeable Core, or Filter Return).

Opposed Blade Damper.

Width x Height 'Nominal Size' (Duct, or Trimmed Hole).

Holyoake White. Mill Aluminium. Powder Coat.

Return and/or exhaust louvers shall be of extruded aluminium, rattle-free construction, of the model shown on the drawings, or elsewhere in this specification. Blades shall be mechanically locked to mullions and frames. Frames shall have close mitred corners, reinforced and secured with aluminium gussets. Filter returns, where specified, shall be of similar construction, mounted in a hinged subframe and held closed with a positive latch. Filters are 'EU2' washable type. All shall be as manufactured by Holyoake.



Guide Product Weights	
Approximate Weight in Kg.	
Size	RLW
300 x 300	2
500 x 500	11
900 x 900	22

AMG – **[RC FR]** – **OBD** – **W x H** – **FINISH**

Aluminium Mesh Grille.

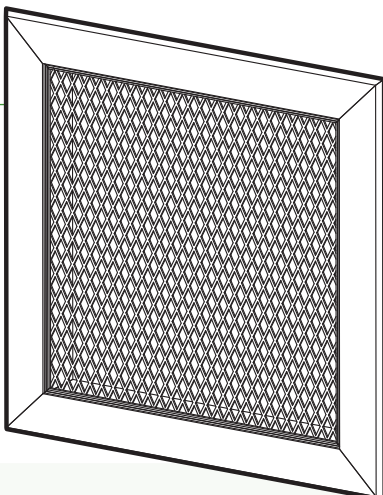
Frame Style (Removeable Core, or Filter Return).

Opposed Blade Damper.

Width x Height 'Nominal Size' (Duct, or Trimmed Hole).

Holyoake White. Mill Aluminium. Powder Coat.

Return and/or exhaust Grilles shall be an aluminium frame with aluminium mesh core. They shall be of rattle-free construction, of the model shown on the drawings, or elsewhere in this specification. Frames shall have close mitred corners, reinforced and secured with aluminium gussets. Filter returns, where specified, shall be of similar construction, mounted in a hinged subframe and held closed with a positive latch. Filters are 'EU2' washable type. All shall be as manufactured by Holyoake.



Guide Product Weights	
Approximate Weight in Kg.	
Size	AMG
200 x 200	0.38
300 x 300	0.58
500 x 500	1.05

Note

When ceiling mounted, seismic restraints may be required, but are not supplied.