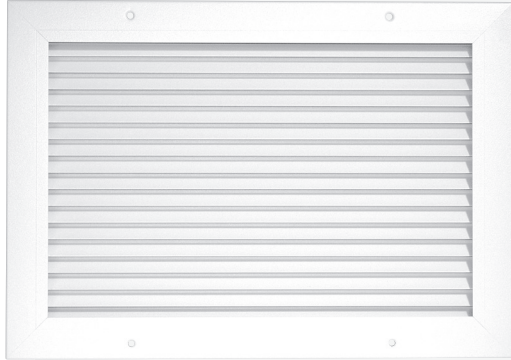


Aluminium Door Transfer

51DG Series

Aluminium Door Transfer/ Non-Vision Grilles



The Advanced Air Model Series 51DG Door Transfer/Non-Vision Grilles are designed to meet the demand for top quality and competitive prices. The grilles are carefully constructed to be unobtrusive in appearance for architectural excellence.

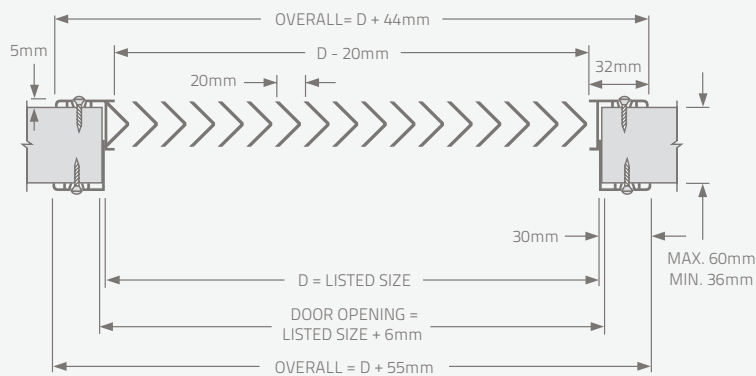
Model Series 51DG offers the largest free area possible (average > 50%) with a completely sight-proof design, utilizing an inverted 'V' shaped louvre on 20mm centres. Widely used, not only in doors and partitions, but also in place of conventional exhaust and return grilles where it is important that the interior of the plenum or duct be concealed. The inverted-V blades not only block vision, but also provide strength. When mounted in the lower portion of a door, a door grille is naturally subjected to bumps and kicks. The 51DG durability assures good looks and long service. Screw holes in the frame are countersunk for smooth appearance after installation.

Available sizes 100mm x 100mm to 600mm x 1200mm in 50mm increments. Other sizes are available on request but are subject to manufacturing limitations.

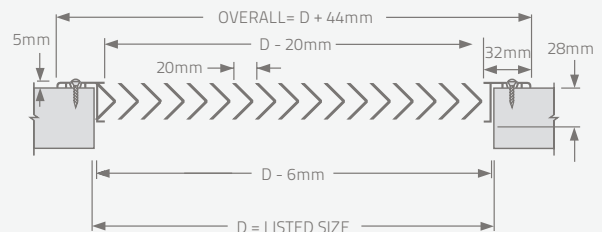
Material: Extruded aluminium.

Finish: White polyester powder finish RAL9010 semi-gloss is standard. Other finishes are available.

Model 51DGD
Auxiliary Frame Assembly



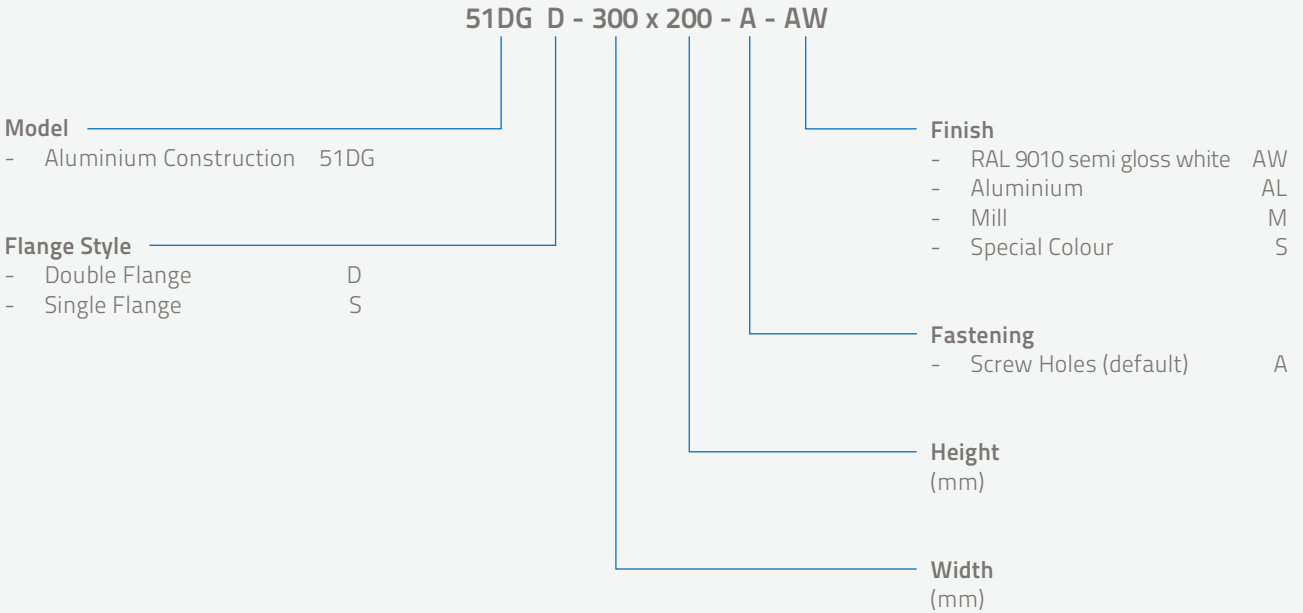
Model 51DGS
Flange Frame Assembly





How To Specify or To Order

Aluminium Door Transfer/Non-Vision Grille – Model Series 51DG



(Show complete Model Number and Size, unless "Default" is desired)

Suggested Specification:

Supply and install Advanced Air Model (specify) 51DGD or 51DGS Door/Transfer Grilles of the type and size as shown on the plans and air distribution schedules. The grille shall have extruded aluminium inverted 'V' shaped blades and an extruded aluminium frame. The door grille is to be sight-proof. The finish shall be White polyester powder finish RAL9010 semi-gloss as standard (optional finishes are available).

Notes:

1. For a standard grille with no special requirements, the "default" will automatically be selected. For example, an aluminium door grille with a double flange, is Model 51DGD. Unit will be supplied with screw holes and White polyester powder finish RAL9010 semi-gloss.
2. Heights available in 50mm increments only.

Performance Data

Eggcrate Return Grilles ■ Model Series: 51EC

Nominal Size (mm)	Alternate Size (mm)	Core Area (m2)	Core Velocity (m/s) Pressure Drop (Pa)	0.5 2	0.75 3	1.0 6	1.25 9	1.5 13	1.75 18	2.0 24	2.25 30
150x150	200x100	0.02	Flowrate (l/s)	8	13	17	21	25	30	34	38
	250x100		NC Level	–	–	13	18	22	25	28	30
200x150	300x100	0.02	Flowrate (l/s)	12	18	24	30	35	42	47	43
			NC Level	–	–	14	19	23	26	29	31
250x150	400x100	0.03	Flowrate (l/s)	15	23	30	38	45	53	60	68
			NC Level	–	–	15	20	24	27	30	33
200x200		0.03	Flowrate (l/s)	17	25	33	42	50	58	66	75
			NC Level	–	–	15	20	24	27	30	32
300x150	450x100	0.04	Flowrate (l/s)	19	28	38	47	57	66	76	85
			NC Level	–	10	16	21	25	28	31	33
300x200	400x150	0.05	Flowrate (l/s)	26	39	52	65	78	91	104	117
	600x100		NC Level	–	11	17	22	26	29	32	34
250x250	650x100	0.05	Flowrate (l/s)	27	41	55	68	82	96	109	123
			NC Level	–	11	17	22	26	29	32	35
300x250	400x200	0.07	Flowrate (l/s)	33	50	66	83	99	116	132	149
	500x150		NC Level	–	13	19	23	27	30	33	36
300x300	350x250 600x150	0.08	Flowrate (l/s)	41	61	81	101	122	142	162	183
	450x200		NC Level	–	14	20	24	28	31	34	36
350x350	400x300 600x200	0.11	Flowrate (l/s)	57	85	113	142	198	212	227	255
	500x250 850x150		NC Level	–	15	21	25	29	32	35	37
450x300	400x350 700x200	0.12	Flowrate (l/s)	62	93	125	156	187	218	249	280
	550x250		NC Level	–	16	22	26	30	33	36	38
400x400	450x350 750x200	0.15	Flowrate (l/s)	75	113	150	188	225	263	300	338
	550x300		NC Level	–	16	22	27	32	34	36	39
600x300	450x400 750x250	0.17	Flowrate (l/s)	84	127	169	211	253	296	338	380
	500x350		NC Level	–	17	23	28	33	35	37	40
450x450	500x400 700x300	0.19	Flowrate (l/s)	96	144	193	241	289	337	385	433
	600x350 800x250		NC Level	10	18	24	29	34	36	38	41
750x300	500x450 650x350	0.21	Flowrate (l/s)	106	160	212	266	319	372	425	478
	550x400 900x250		NC Level	10	18	24	29	34	36	38	41
500x500	600x450 750x350	0.24	Flowrate (l/s)	120	180	240	300	361	420	479	539
	650x400 900x300		NC Level	11	19	25	30	35	37	39	42
550x550	600x500 750x400	0.29	Flowrate (l/s)	146	219	293	366	439	512	585	658
	650x450 900x350		NC Level	11	19	25	30	35	38	40	43
750x450	600x550 1000x350	0.32	Flowrate (l/s)	163	245	327	408	490	572	653	735
	850x400		NC Level	11	20	26	30	35	38	40	43
600x600	650x550 800x450	0.34	Flowrate (l/s)	175	263	350	438	525	613	700	788
	700x500 900x400		NC Level	11	20	26	30	35	38	41	44
900x450	800x500	0.39	Flowrate (l/s)	197	296	395	493	592	690	789	888
			NC Level	11	20	26	30	35	39	41	44
650x650	700x600	0.41	Flowrate (l/s)	207	310	413	517	620	723	827	930
			NC level	12	20	27	31	36	39	41	44
750x600	700x650 900x500	0.43	Flowrate (l/s)	221	331	443	552	663	775	883	994
	800x550		NC Level	12	21	27	31	36	39	41	44
700x700	750x650	0.47	Flowrate (l/s)	241	362	482	603	723	844	965	1085
	900x550		NC level	12	21	28	32	37	40	42	45
900x600	750x700	0.52	Flowrate (l/s)	266	399	532	665	799	932	1065	1198
			NC Level	13	22	28	32	37	40	42	45
750x750	850x650	0.55	Flowrate (l/s)	278	417	556	695	834	973	1112	1251
			NC Level	13	22	28	32	37	40	42	45