

Door Transfer/ Non-Vision Grilles



Sight Proof

High Quality, Aesthetic Design

Variety of Finishes Available

Aluminium Door Transfer/Non-Vision Grilles

Sight Proof



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, utilising 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:

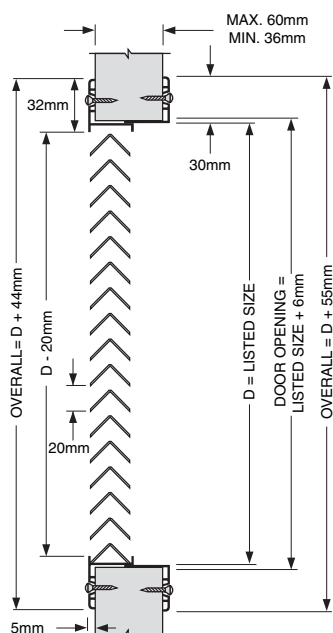
Extruded aluminium.

Finish:

AW Appliance White polyester powder finish RAL9010 semi-gloss is standard. Other finishes are available.

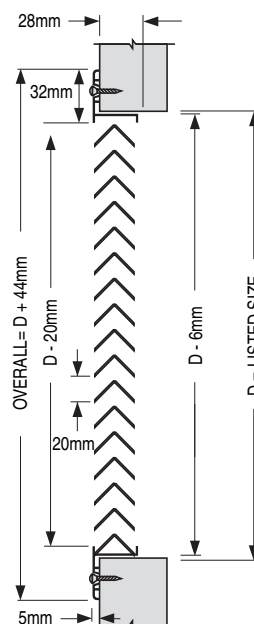
Model 51DGD

Auxiliary Frame Assembly



Model 51DGS

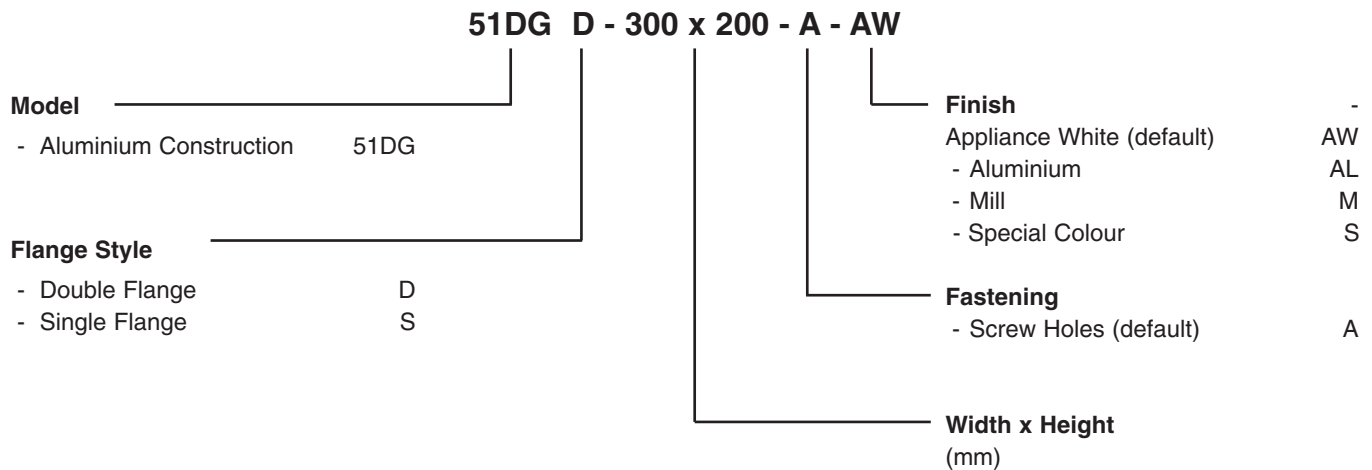
Flange Frame Assembly



How To Specify or To Order

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

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



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 AW Appliance White polyester powder finish RAL9010 semi-gloss.
2. Heights available in 50mm increments only.

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 AW Appliance White polyester powder finish RAL9010 semi-gloss as standard (optional finishes are available).

Performance Data

Door Transfer/Non-Vision Grilles • 5100 Series

Model: 51DG

Nominal Size (mm)	Alternate Size (mm)	Core Area (m ² .)	Core Velocity (m/s) Pressure Drop (Pa)	0.5	0.75	1.0	1.25	1.5	1.75	2.0	2.25
				2	3	6	9	13	18	24	30
150 x 150	200 x 100 250 x 100	0.02	Flowrate (l/s)	8	13	17	21	25	30	34	38
			NC Level	–	–	13	18	22	25	28	30
200 x 150	300 x 100	0.02	Flowrate (l/s)	12	18	24	30	35	42	47	43
			NC Level	–	–	14	19	23	26	29	31
250 x 150	400 x 100	0.03	Flowrate (l/s)	15	23	30	38	45	53	60	68
			NC Level	–	–	15	20	24	27	30	33
200 x 200		0.03	Flowrate (l/s)	17	25	33	42	50	58	66	75
			NC Level	–	–	15	20	24	27	30	32
300 x 150	450 x 100	0.04	Flowrate (l/s)	19	28	38	47	57	66	76	85
			NC Level	–	10	16	21	25	28	31	33
300 x 200	400 x 150 600 x 100	0.05	Flowrate (l/s)	26	39	52	65	78	91	104	117
			NC Level	–	11	17	22	26	29	32	34
250 x 250	650 x 100	0.05	Flowrate (l/s)	27	41	55	68	82	96	109	123
			NC Level	–	11	17	22	26	29	32	35
300 x 250	400 x 200 500 x 150	0.07	Flowrate (l/s)	33	50	66	83	99	116	132	149
			NC Level	–	13	19	23	27	30	33	36
300 x 300	350 x 250 600 x 150 450 x 200	0.08	Flowrate (l/s)	41	61	81	101	122	142	162	183
			NC Level	–	14	20	24	28	31	34	36
350 x 350	400 x 300 600 x 200 500 x 250 850 x 150	0.11	Flowrate (l/s)	57	85	113	142	198	212	227	255
			NC Level	–	15	21	25	29	32	35	37
450 x 300	400 x 350 700 x 200 550 x 250	0.12	Flowrate (l/s)	62	93	125	156	187	218	249	280
			NC Level	–	16	22	26	30	33	36	38
400 x 400	450 x 350 750 x 200 550 x 300	0.15	Flowrate (l/s)	75	113	150	188	225	263	300	338
			NC Level	–	16	22	27	32	34	36	39
600 x 300	450 x 400 750 x 250 500 x 350	0.17	Flowrate (l/s)	84	127	169	211	253	296	338	380
			NC Level	–	17	23	28	33	35	37	40
450 x 450	500 x 400 700 x 300 600 x 350 800 x 250	0.19	Flowrate (l/s)	96	144	193	241	289	337	385	433
			NC Level	10	18	24	29	34	36	38	41
750 x 300	500 x 450 650 x 350 550 x 400 900 x 250	0.21	Flowrate (l/s)	106	160	212	266	319	372	425	478
			NC Level	10	18	24	29	34	36	38	41
500 x 500	600 x 450 750 x 350 650 x 400 900 x 300	0.24	Flowrate (l/s)	120	180	240	300	361	420	479	539
			NC Level	11	19	25	30	35	37	39	42
550 x 550	600 x 500 750 x 400 650 x 450 900 x 350	0.29	Flowrate (l/s)	146	219	293	366	439	512	585	658
			NC Level	11	19	25	30	35	38	40	43
750 x 450	600 x 550 1000 x 350 850 x 400	0.32	Flowrate (l/s)	163	245	327	408	490	572	653	735
			NC Level	11	20	26	30	35	38	40	43
600 x 600	650 x 550 800 x 450 700 x 500 900 x 400	0.34	Flowrate (l/s)	175	263	350	438	525	613	700	788
			NC Level	11	20	26	30	35	38	41	44
900 x 450	800 x 500	0.39	Flowrate (l/s)	197	296	395	493	592	690	789	888
			NC Level	11	20	26	30	35	39	41	44
650 x 650	700 x 600	0.41	Flowrate (l/s)	207	310	413	517	620	723	827	930
			NC level	12	20	27	31	36	39	41	44
750 x 600	700 x 650 900 x 500 800 x 550	0.43	Flowrate (l/s)	221	331	443	552	663	775	883	994
			NC Level	12	21	27	31	36	39	41	44
700 x 700	750 x 650 900 x 550	0.47	Flowrate (l/s)	241	362	482	603	723	844	965	1085
			NC level	12	21	28	32	37	40	42	45
900 x 600	750 x 700	0.52	Flowrate (l/s)	266	399	532	665	799	932	1065	1198
			NC Level	13	22	28	32	37	40	42	45
750 x 750	850 x 650	0.55	Flowrate (l/s)	278	417	556	695	834	973	1112	1251
			NC Level	13	22	28	32	37	40	42	45