

ALANDALOSIA

FOR AIR OUTLET



CATALOGUE **NO 10**

TRANSFER GRILL



Air Outlet

Andalosalog

OUR PRODUCTS

SELECTION GUIDE

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- 17- DISC VALVE
- 18- NON RETURN DAMPER (SHUTTER)
- 19- VOLUME DAMPER
- 20- FIRE DAMPER
- 21- SMOKE DAMPER
- 22- DUCT ACCESS DOOR

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Air Outlet

Andalousia

INTERTEK

DESCRIPTION

TRANSFER GRILLE V TYPE BLADE

it is a rectangular aluminium door transfer grille with fixed deflectors and can be used in commercial and industrial premises. The grille is intended for free passage of air through doors. The grille can have pre punched beveled holes for mounting with screws.



FUNCTION

The grille fixed deflectors have pitch of 1" (25mm) and this space allows the air to pass freely between both sides of the grille.

Because of the specially arranged deflectors it is not possible for light to pass through.

CONSTRUCTION

Frame and blades :- are made from extruded aluminum profiles alloy (6063).



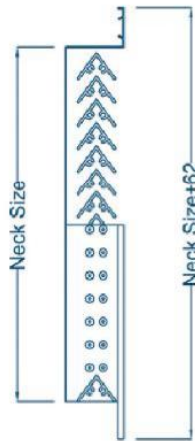
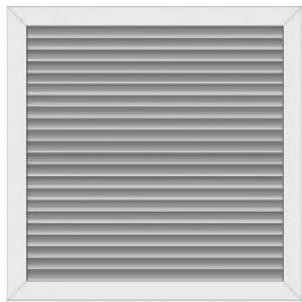
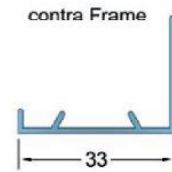
Frame



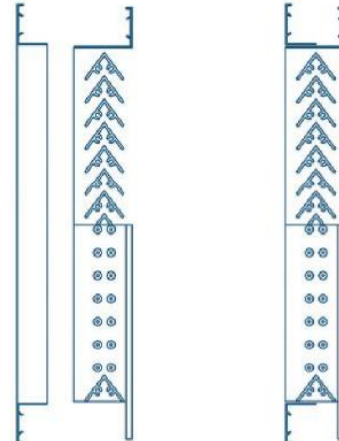
Blades

CONTRA FRAME

Depending on the thickness of the door short or long contra frame should be used from the opposite side to finish the installation.



V Blade rivited to the Frame



contra Frame to be assembled with main Frame to make Double face Grille

SIZE

Dimension					
Size	Horizontal		Vertical		CFM Range
	in	mm	In	mm	
12 x 6	12	304.8	6	152.4	300-800
16 x 6	16	406.4	6	152.4	300-800
24 x 6	24	609.6	6	152.4	300-800
12 x 8	12	304.8	8	203.2	300-800
18 x 8	18	457.2	8	203.4	300-800
24 x 8	24	609.6	8	203.4	300-800
16 x 10	16	406.4	10	254.0	300-800
20 x 10	20	508.0	10	254.0	300-800
24 x 10	24	609.6	10	254.0	300-800
12 x 12	12	304.8	12	304.8	300-800

Dimension					
size	Horizontal		Vertical		CFM Range
	In	mm	In	mm	
18 x 12	18	457.2	12	304.8	300-800
20 x 12	20	508.0	12	304.8	300-800
24 x 12	24	609.6	12	304.8	300-800
20 x 14	20	508.0	14	355.6	300-800
24 x 12	24	609.6	14	355.6	300-800
24 x 16	24	609.6	16	406.4	300-800
18 x 18	18	457.2	18	457.2	300-800
24 x 18	24	609.6	18	457.2	300-800
24 x 24	24	609.4	24	609.6	300-800
30 x 24	30	762.0	24	609.6	300-800

FINISH

In standard application, materials are painted with Electrostatic Powder Paint and then oven-treated following surface treatment and oil removal processes.

MOUNTING

The grille can be mounted directly into an opening in the doors and glued with a sealant, or with screws via pre drilled bevelled holes .

PERFORMANCE DATA

Listed Sizes (inches)	Face velocity (fpm)	300	400	450	500	550	600	650	700	750	800
	Static pressure (in.w.g)	0.021	0.035	0.044	0.053	0.065	0.076	0.089	0.103	0.115	0.113
	Area factor (sq.ft)	Air capacity (cfm)									
10x6	0.15	45	60	68	75	82	90	98	105	112	120
12x6	0.18	54	72	81	90	99	108	117	126	135	144
16x6	0.25	75	100	112	125	137	150	162	175	187	200
18x6	0.28	84	112	126	140	154	168	182	196	210	224
20x6	0.32	96	128	144	160	176	192	208	224	240	256
24x6	0.39	117	156	175	195	214	234	253	273	292	312
10x8	0.21	63	84	94	105	115	126	136	147	157	168
12x8	0.26	78	104	117	130	143	156	169	182	195	208
16x8	0.35	105	140	157	175	192	210	227	245	262	280
18x8	0.40	120	160	180	200	220	240	260	280	300	320
24x8	0.55	156	220	247	275	302	330	357	385	412	440
30x8	0.68	204	272	306	340	374	408	442	476	510	554
10x10	0.20	81	108	121	135	148	162	175	189	202	216
12x10	0.36	108	144	162	180	198	216	234	252	270	288
16x10	0.46	138	184	207	230	253	276	299	322	345	368
18x10	0.52	156	208	234	260	286	312	338	364	390	416
20x10	0.58	174	232	261	290	319	348	377	406	435	464
24x10	0.70	210	280	315	350	385	420	455	490	525	560
12x12	0.41	123	164	184	205	225	246	266	287	307	328
16x12	0.56	168	224	252	280	308	336	364	392	420	448
18x12	0.64	192	256	288	320	352	384	416	448	480	512
20x12	0.71	213	284	319	355	390	426	461	497	532	568
24x12	0.86	258	344	387	430	473	516	559	602	645	688
30x12	1.08	324	432	486	540	594	648	702	756	810	864
24x16	1.18	354	472	531	590	649	708	767	826	885	944
18x18	0.96	288	384	432	480	528	576	624	672	720	768
24x18	1.30	390	520	585	650	715	780	845	910	975	1040
30x18	1.69	507	676	760	845	929	1014	1098	1183	1267	1352
24x24	1.78	534	712	801	890	979	1068	1157	1246	1335	1424
30x24	2.28	684	912	1026	1140	1254	1368	1482	1596	1710	1824
30x30	2.88	864	1152	1296	1440	1584	1728	1872	2016	2160	2304

Note 1 : determine CFM by the following equation:

$$CFM = \text{Area factor} \times \text{measured face velocity}$$

Note 2 : for sizes not shown, the approximate area factor in square feet can be calculated by using the formula below:

$$\text{Area factor} = \frac{0.5 (\text{height} - 1.25) \times (\text{width} - 1.25)}{144}$$

Area factor and pressure drop will change with a change in blade spacing.