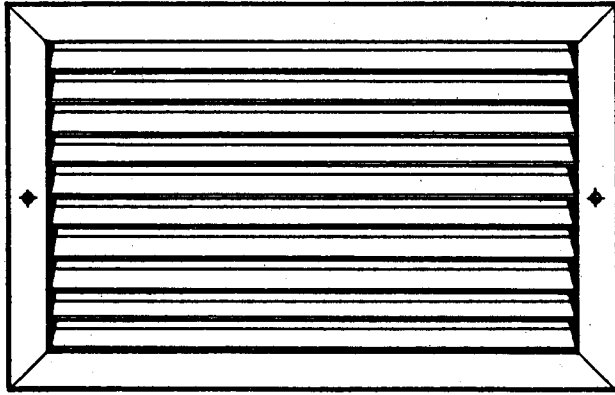




SAUDI AIR CONTROL SYSTEM
INDUSTRIAL REGISTRATION NO.353



ALUMINUM / STEEL
DOOR GRILLES



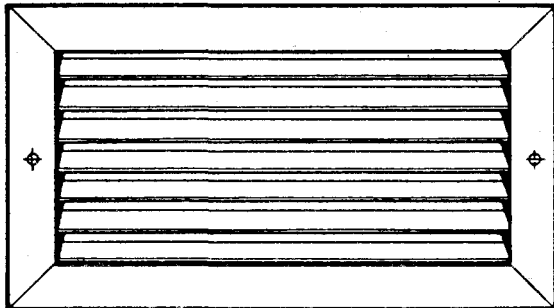


DOOR GRILLES

SS

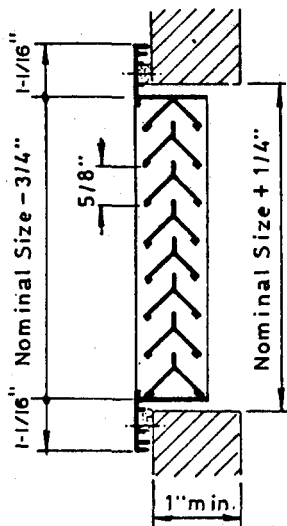
BS

NON-VISION DOOR AND TRANSFER GRILLES

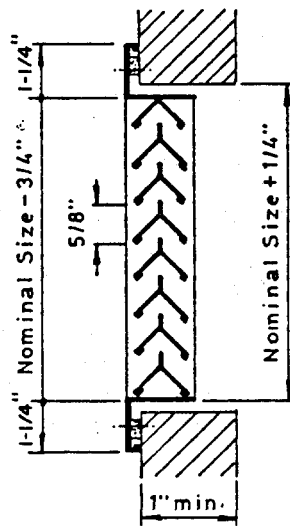


FEATURES :

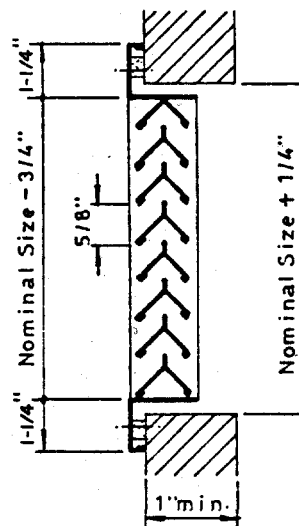
- Fixed type aluminum / steel horizontal blades, inverted Y-shape on 5/8" centers.
- Countersunk screw face mounting.
- Choice of aluminum or steel construction.
- Standard finish :
 Series SS1 - Aluminum — Anodized.
 " SS2 - Aluminum — Baked enamel.
 Other colors (optional).
 Series BS - Steel — Baked enamel.
 Other colors (optional).



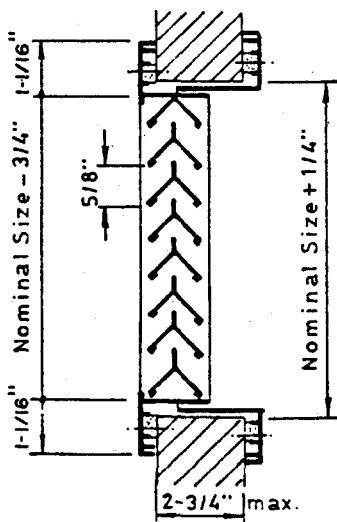
MODEL SS1-DTG-1



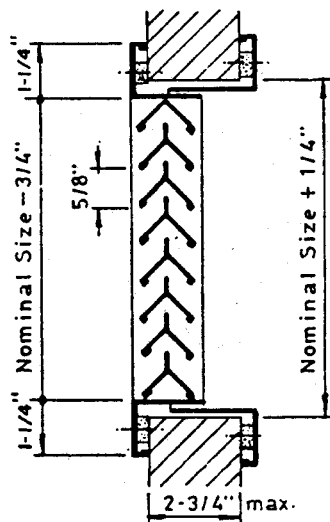
MODEL SS2-DTG-1



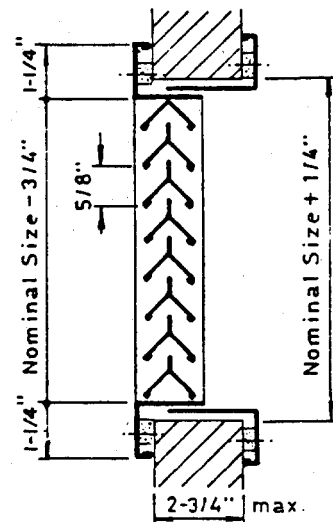
MODEL BS-DTG-1



MODEL SS1-DTG-2



MODEL SS2-DTG-2



MODEL BS-DTG-2



PERFORMANCE DATA

SS

BS

NOMINAL DIMENSIONS

LENGTH	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	32"	34"	36"	38"	40"
HEIGHT	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"	25"	28"	30"	32"	34"	36"	38"	40"

Note : -Nominal dimensions : Length x Height

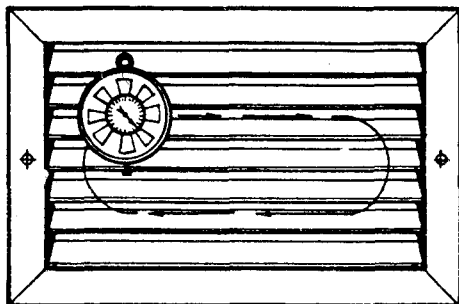
-Any combination for nominal dimensions can be supplied.

SELECTION TABLE

Nominal Size	Free Area ft. ²	Velocity, fpm.							
		200	300	400	500	600	700	800	900
		CFM							
10" x 6"	0.150	30	45	60	75	90	105	120	135
12" x 6"	0.183	37	55	73	92	110	128	146	165
10" x 8"	0.230	46	69	92	115	138	161	184	207
12" x 8"	0.280	56	84	112	140	168	196	224	252
14" x 8"	0.330	66	99	132	165	198	231	264	297
12" x 12"	0.473	95	142	189	237	284	331	378	426
20" x 10"	0.647	129	194	259	324	388	453	518	582
18" x 12"	0.728	146	218	291	364	437	510	582	655
30" x 8"	0.885	177	266	354	443	531	620	708	797
24" x 12"	0.984	197	295	394	492	590	688	787	886
18" x 18"	1.145	229	344	458	573	687	802	916	1031
24" x 14"	1.184	237	355	474	592	710	829	947	1066
30" x 12"	1.239	248	372	496	620	743	867	991	1115
24" x 18"	1.546	309	464	618	773	928	1082	1237	1391
30" x 18"	1.947	389	584	779	974	1168	1363	1558	1752
24" x 24"	2.148	430	644	859	1074	1289	1504	1718	1933
30" x 24"	2.705	541	812	1082	1353	1623	1894	2164	2435
30" x 30"	3.413	683	1024	1365	1707	2048	2389	2730	3072

Note : For Standard Sizes only.

BALANCING PROCEDURE



1. Take several readings from the face of the grille using a rotating vane anemometer to determine the velocity, as shown on figure 1. Take the average face velocity from these readings.
2. Find the free area from selection table.
3. To calculate CFM, use the following eq'n.

$$\text{CFM} = \text{Free Area} \times \text{Average Face Velocity}$$