

PFRCG

BS 476: Pts. 20 & 22 & BS EN 1634-1: 2000 tested

- > Fire Rated Door Transfer Grille
- > Bi-Directional Air Flow

DESCRIPTION

Standard vision intumescent air transfer grille for walls, doors and rectangular or circular ventilation ducts. Excellent airflow characteristics which result in silent efficient operation in normal use.

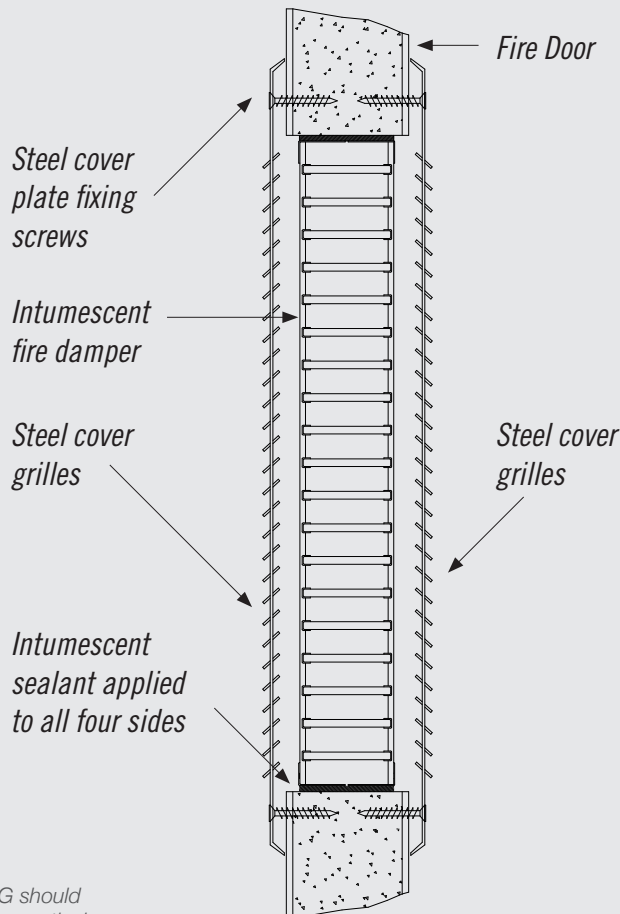
CONSTRUCTION

Intumescent material used in the slat construction is based upon sodium silicate and provides the lowest activation temperature of any intumescent material at 100°C. It is encapsulated in PVC extrusions.

MODELS

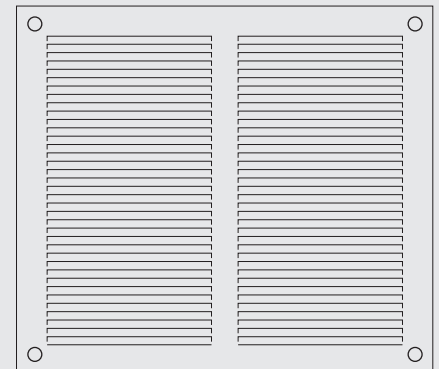
PFRCG: 2x cover grille + fire block
PCG: 1x cover grille

PFRCG



The PFRCG should be used in a vertical orientation as illustrated

PCG – Cover Grille



DIMENSIONS (mm)

Width	100	200	300	400	500	600
Height	100	200	300	400	500	600
Depth	40	40	40	40	40	40

Also available in 25 mm increments

NOTES

Each size of damper is manufactured 2mm less than the corresponding duct or aperture size to provide clearance during installation.

PFRCG – SELECTION DATA

SELECTION DATA																			
Free Area (cm ²)		Air Volume (m ³ /s)																	
		0.010	0.013	0.015	0.018	0.020	0.025	0.030	0.040	0.050	0.060	0.080	0.100	0.125	0.150				
Free Area (cm ²)	50	Pa	5	9	12	17	22	34											
		dB(A)	-	11	15	20	24	29											
	60	Pa		6	9	12	15	24	34										
		dB(A)		7	13	16	19	25	31										
	80	Pa			5	7	9	13	19	34									
		dB(A)			-	-	14	19	23	31									
	100	Pa				4	5	10	12	22	34								
		dB(A)				-	-	15	21	26	32								
	125	Pa					4	6	8	14	22	32							
		dB(A)					-	-	13	21	25	32							
	150	Pa						4	6	10	15	22	42						
		dB(A)						-	10	16	23	28	35						
	200	Pa							6	10	13	22	35						
		dB(A)							11	17	22	29	35						
	250	Pa							4	6	8	15	23	33					
		dB(A)							-	12	18	25	30	36					
	300	Pa								4	7	10	16	25	36				
		dB(A)								-	13	22	27	32	35				

SELECTION DATA																		
Free Area (cm ²)		Air Volume (m ³ /s)																
		0.080	0.100	0.125	0.150	0.175	0.200	0.250	0.300	0.400	0.500	0.600	0.800					
Free Area (cm ²)	400	Pa	6	9	14	24	28											
		dB(A)	15	23	26	31	34											
	500	Pa	4	6	9	14	18	24										
		dB(A)	10	16	23	27	31	35										
	600	Pa		4	7	10	13	17	27									
		dB(A)		12	18	23	27	30	36									
	800	Pa			4	6	8	10	17	23								
		dB(A)			12	17	22	25	30	35								
	1000	Pa				4	5	7	12	15	27							
		dB(A)				13	17	21	26	31	37							
	1250	Pa					4	5	7	10	18	29						
		dB(A)					-	16	22	27	34	40						
	1500	Pa						3	5	9	14	21						
		dB(A)						13	18	24	31	37						
	2000	Pa								5	9	14	20					
		dB(A)								19	26	32	37					
	2500	Pa									4	6	11	14	27			
		dB(A)									15	23	29	33	40			

Free Area (cm ²)												
Height	100	150	200	250	300	350	400	450	500	550	600	
Width	100	56	85	114	147	179	209	242	272	303	335	363
	150	89	133	180	232	283	329	380	432	478	529	575
	200	121	184	246	317	387	450	520	591	653	726	786
	250	154	233	315	402	491	570	660	751	829	918	997
	300	187	283	378	487	599	692	800	909	1004	1113	1208
	350	220	332	444	572	700	812	940	1067	1180	1305	1420
	400	252	381	510	658	804	933	1080	1226	1355	1502	1631
	450	282	431	577	742	908	1053	1219	1385	1531	1697	1842
	500	318	480	646	827	1011	1175	1358	1542	1706	1891	2054
	550	350	530	709	912	1116	1295	1499	1703	1884	2086	2267
600	383	574	772	998	1223	1416	1639	1862	2058	2280	2475	

KEY INFORMATION

Throw based on diffuser installed in a standard dropped ceiling.

Pa = Static Pressure Drop
dB(A) = Sound Pressure Level