

- > Double Deflection Grille
- > Adjustable Air Pattern
- > Vertical/Horizontal

DESCRIPTION

Double Deflection Grilles are recommended for application in systems requiring maximum flexibility. Vertical front blades control the spread and throw distance of the air pattern. Horizontal front blades will control the rise and drop of the air pattern, typically directing warm air downwards or cool air upwards along the ceiling.

CONSTRUCTION

Extruded aluminium frame and blades
Finish: White polyester powder finish RAL 9010 semi-gloss is standard. *Other finishes are available.*
Options:

- Aluminium integral damper
- Narrow frame (25 mm)
- Concealed mounting

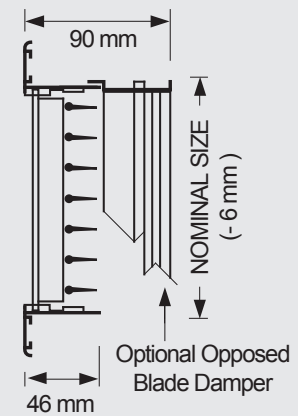
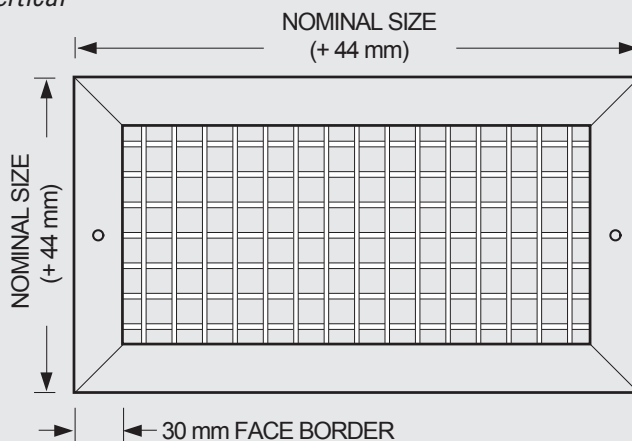
MODELS

PDD-V: Vertical
PDD-H: Horizontal

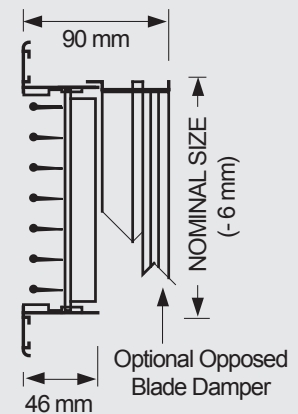
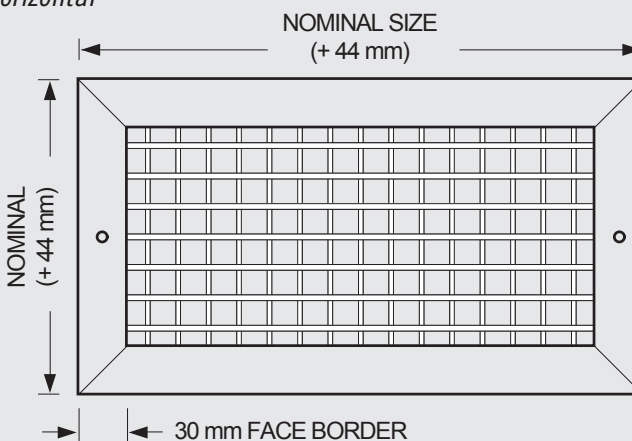
NOTES

Standard sizes are available from 100mm x 100mm to 1200mm x 1200mm. (Other sizes are available on request). Mullions are fitted on grille widths over 450mm.

PDDG-V – Vertical



PDDG-H – Horizontal



SUPPLY SELECTION DATA													
100 mm Height													
Air Volume (m³/s)		0.020	0.025	0.030	0.040	0.050	0.060	0.070	0.080	0.100	0.125	0.150	
Width	250	T	2.1	2.7	3.3	4.3	5.3						
		Pa	2	2	3	7	11						
		dB(A)	-	-	-	11	18						
	350	T		2.2	2.7	3.6	4.5	5.3	6.3	7.3			
		Pa		1	2	3	4	6	9	11			
		dB(A)		-	-	-	8	14	18	22			
	450	T				3.1	3.7	4.7	5.4	6.1	7.8		
		Pa				2	2	4	5	6	12		
		dB(A)				-	-	8	13	15	22		
	550	T				2.7	3.5	4.3	4.9	5.6	7	8.8	
		Pa				1	2	2	3	4	7	12	
		dB(A)				-	-	-	7	12	16	22	
	650	T					3.2	3.8	4.5	5.2	6.4	8	9.7
		Pa					1	2	2	3	5	7	10
		dB(A)					-	-	-	8	13	19	23

SUPPLY SELECTION DATA													
150 mm Height													
Air Volume (m³/s)		0.040	0.050	0.060	0.070	0.080	0.100	0.125	0.150	0.200	0.300	0.400	
Width	250	T	3.2	4	4.8	5.6	6.4	8.1					
		Pa	2	3	4	6	7	11					
		dB(A)	-	5	12	13	17	23					
	350	T		3.3	4	4.6	5.4	6.6	8.3	9.9			
		Pa		1	2	3	3	5	8	12			
		dB(A)		-	-	-	8	16	20	26			
	450	T			3.4	4.1	4.6	5.7	7.2	8.6	11.1		
		Pa			1	1	2	3	5	7	12		
		dB(A)			-	-	-	8	14	20	26		
	550	T					4.1	5.2	6.4	7.7	10.3		
		Pa					1	2	3	5	8		
		dB(A)					-	-	9	14	22		
	650	T						4.7	5.9	7.2	9.4	14.1	
		Pa						1	2	3	5	12	
		dB(A)						-	5	10	17	29	
	850	T							5.1	6.2	8.2	12.3	16.3
		Pa							1	2	3	7	12
		dB(A)							-	-	11	22	31
1050	T								5.5	7.3	11	14.6	
	Pa								1	2	5	8	
	dB(A)								-	8	17	27	

SUPPLY SELECTION DATA													
250 mm Height													
Air Volume (m³/s)		0.150	0.200	0.300	0.400	0.500	0.600	0.700	0.800	1.000			
Width	450	T	6.2	8.4	12.6								
		Pa	2	3	7								
		dB(A)	5	11	23								
	550	T		5.6	7.5	11.2	14.5						
		Pa		1	2	5	9						
		dB(A)		-	7	16	25						
	650	T			6.8	10.2	13.6	17	20.3				
		Pa			1	3	6	9	13				
		dB(A)			-	14	22	27	32				
	850	T				8.9	11.8	14.7	17.7	20.7			
		Pa				2	3	5	9	10			
		dB(A)				8	15	21	27	30			
	1050	T				7.9	10.6	13.2	15.9	18.5	21.2		
		Pa				1	2	3	6	7	9		
		dB(A)				3	12	16	21	25	32		
	1250	T						12.1	14.5	16.9	19.3	24.5	
		Pa						2	3	5	7	9	
		dB(A)						12	17	21	25	32	

SUPPLY SELECTION DATA												
350 mm Height												
Air Volume (m³/s)		0.300	0.400	0.500	0.600	0.700	0.800	1.000				
Width	650	T	8.4	11.3	14	16.8	19.6	22.4				
		Pa	2	3	4	6	8	11				
		dB(A)	6	12	19	24	30	31				
	850	T			12.2	14.6	17	19.6	24.3			
		Pa			2	3	5	6	10			
		dB(A)			13	18	21	25	32			
	1050	T			10.9	13.1	15.3	17.5	21.8			
		Pa			2	2	3	4	7			
		dB(A)			8	13	18	20	26			
	1250	T			10	11.9	13.9	15.8	19.9			
		Pa			1	2	2	3	4			
		dB(A)			-	8	13	16	23			

SUPPLY SELECTION DATA												
450 mm Height												
Air Volume (m³/s)		0.500	0.600	0.700	0.800	1.000						
Width	650	T	12.2	14.4	17.1	19.5	24.4					
		Pa	2	4	5	6	10					
		dB(A)	13	18	24	25	32					
	850	T	10.6	12.7	14.8	16.9	21.2					
		Pa	1	2	3	4	6					
		dB(A)	7	11	16	19	25					
	1050	T		11.4	13.3	15.2	18.8					
		Pa		1	3	2	4					
		dB(A)		7	11	14	20					
	1250	T			12.2	13.8	17.3					
		Pa			1	2	2					
		dB(A)			7	10	14					

KEY INFORMATION

Throw based on diffuser installed in a standard dropped ceiling.

T = Throw in metres (m)

Pa = Static Pressure Drop

dB(A) = Sound Pressure Level