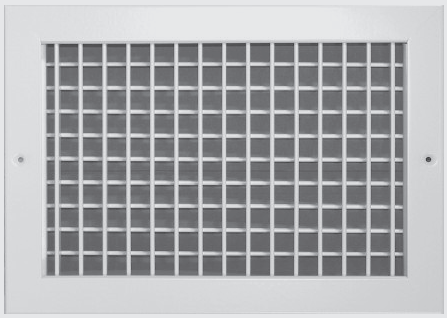
PRICE
ENGINEERED SOLUTIONS Ltd



PDDG

- 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*

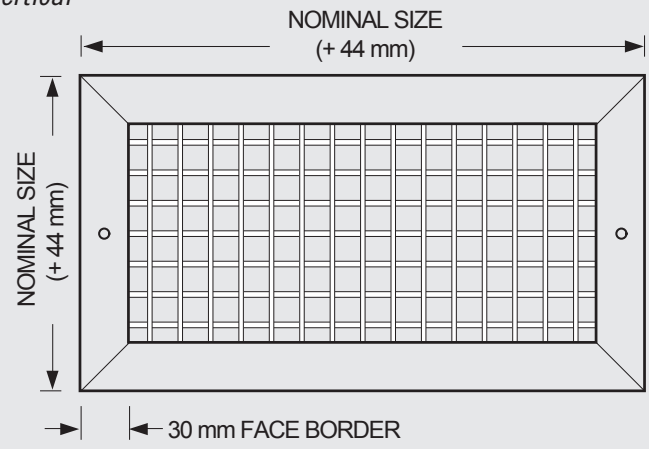
MODELS

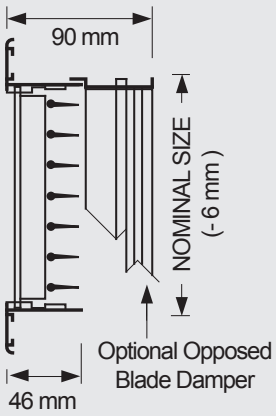
PDD-V: Vertical
PDD-H: Horizontal

NOTES

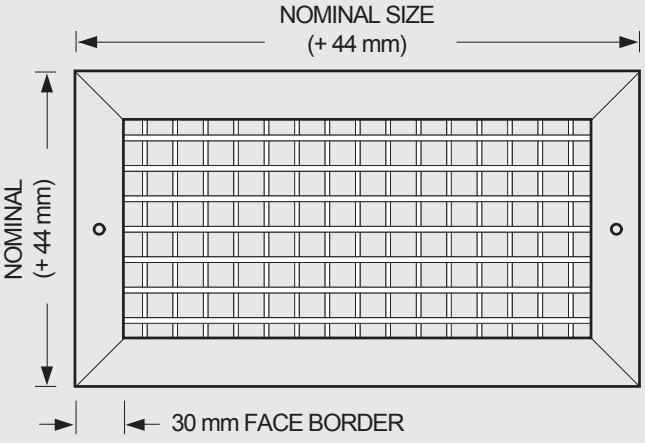
Standard sizes are available from 100mm x 100mm to 1200mm x 1200mm. *(Other sizes are available on request).* Mullions are fitted on grille widths over 450mm.

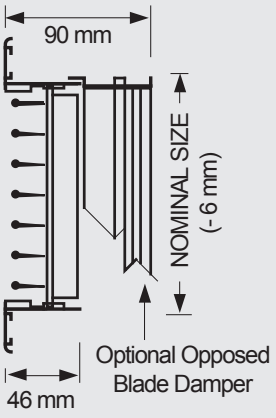
PDDG-V – Vertical





PDDG-H – Horizontal





PDDG – SELECTION DATA

SUPPLY SELECTION DATA

100 mm Height

Width		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
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

150 mm Height

Width		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
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

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

SUPPLY SELECTION DATA

250 mm Height

Width		Air Volume (m³/s)	0.150	0.200	0.300	0.400	0.500	0.600	0.700	0.800	1.000
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

350 mm Height

Width		Air Volume (m³/s)	0.300	0.400	0.500	0.600	0.700	0.800	1.000
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

450 mm Height

Width		Air Volume (m³/s)	0.500	0.600	0.700	0.800	1.000
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