

**SINGLE DEFLECTION REGISTERS**

*Model WSS*



**Single Deflection Registers are generally used in sidewall applications. They consist of a single row of individually adjustable horizontal vanes.**

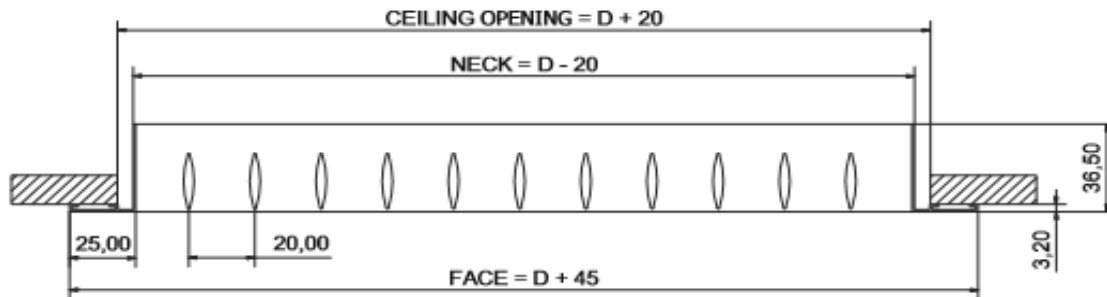
The FRONT VANES are horizontal so the primary air leaving the outlet is directed above the room occupants and does not reach the occupied zone until well mixed with the secondary room air.

Construction is all extruded aluminium horizontal blades, retained in a fixed or removable Core.

Standard finish is powder coat white while other finishes are available to suit the interior and architectural design requirements.

Curved Face Single Deflection Registers can also be manufactured to suit Spiral Duct Installations

Single Deflection Registers are manufactured to order in a wide range of sizes



Sizes Available	
ITEM #	DESCRIPTION
246150S	150mm SQ
246200S	200mm SQ
246250S	250mm SQ
246300S	300mm SQ
246350S	350mm SQ
246400S	400mm SQ

**POLYAIRE UK**

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**PERFORMANCE DETAILS**
*Model WSS*

Size (mm)	Core Velocity (m/s)	Pressure Drop (P/a)	1.5	2	2.5	3	3.5	4	5
			0°	22.5°	45°	4	7	10	15
150 x 150	Flowrate (l/s)		28	38	47	57	66	76	94
	NC Level		—	—	—	14	19	23	29
	Throw (m)	0°	1.1 - 3.0	1.7 - 3.9	2.7 - 4.5	3.3 - 5.1	3.6 - 5.4	3.9 - 6.0	4.5 - 6.6
22.5°		0.8 - 2.0	1.1 - 3.0	2.0 - 3.3	2.4 - 3.9	2.7 - 4.2	3.0 - 4.5	3.3 - 5.1	
45°		0.2 - 1.1	0.5 - 1.4	0.8 - 1.7	1.1 - 2.0	1.4 - 2.4	1.4 - 2.7	1.7 - 3.0	
200 x 200	Flowrate (l/s)		54	72	90	108	126	143	179
	NC Level		—	—	12	17	22	26	32
	Throw (m)	0°	1.7 - 4.8	3.3 - 5.7	3.9 - 6.6	4.8 - 7.2	5.4 - 7.8	5.7 - 7.8	6.3 - 9.4
22.5°		1.1 - 3.6	2.4 - 4.5	3.0 - 5.1	3.6 - 5.7	4.2 - 6.0	4.5 - 6.9	4.8 - 7.2	
45°		0.5 - 2.0	1.1 - 2.4	1.4 - 3.0	2.0 - 3.3	2.4 - 3.6	2.4 - 3.9	2.7 - 4.2	
250 x 250	Flowrate (l/s)		86	115	144	173	202	230	241
	NC Level		—	—	14	19	24	28	34
	Throw (m)	0°	2.4 - 5.4	3.9 - 6.3	4.8 - 7.5	5.4 - 8.1	6.0 - 8.8	6.3 - 9.7	7.5 - 10.9
22.5°		1.7 - 4.2	3.0 - 4.8	3.6 - 5.7	4.2 - 6.3	4.5 - 6.9	4.8 - 7.5	5.7 - 8.4	
45°		0.8 - 2.4	1.4 - 2.7	2.0 - 3.3	2.4 - 3.6	2.7 - 3.9	2.7 - 4.5	3.3 - 5.1	
300 x 300	Flowrate (l/s)		127	170	212	255	297	340	425
	NC Level		—	—	16	21	26	30	36
	Throw (m)	0°	3.3 - 6.9	4.5 - 7.8	6.0 - 9.1	6.9 - 10.0	7.2 - 10.9	7.8 - 11.8	9.1 - 13.3
22.5°		2.4 - 5.4	3.3 - 6.0	4.5 - 6.9	5.4 - 7.8	5.7 - 8.4	6.0 - 9.4	6.9 - 10.6	
45°		1.1 - 3.0	1.7 - 3.6	2.7 - 4.2	3.0 - 4.5	3.3 - 5.1	3.6 - 5.4	4.2 - 6.3	
350 x 350	Flowrate (l/s)		176	234	293	351	410	468	585
	NC Level		—	10	17	22	27	31	37
	Throw (m)	0°	4.5 - 9.1	6.6 - 10.9	7.8 - 11.8	9.1 - 13.3	10.0 - 14.5	10.9 - 15.5	11.8 - 17.3
22.5°		3.3 - 6.9	5.1 - 8.4	6.0 - 9.4	6.9 - 10.6	7.8 - 11.5	8.4 - 12.1	9.4 - 13.6	
45°		1.7 - 4.2	3.0 - 5.1	3.6 - 5.4	4.2 - 6.3	4.5 - 6.9	5.1 - 7.2	5.4 - 8.1	
400 x 400	Flowrate (l/s)		232	310	387	464	542	619	774
	NC Level		—	11	18	23	28	32	38
	Throw (m)	0°	5.1 - 10.6	6.9 - 11.8	8.8 - 13.3	10.3 - 14.5	11.2 - 16.1	11.8 - 17.0	13.3 - 19.4
22.5°		3.9 - 8.1	5.4 - 9.4	6.9 - 10.6	8.1 - 11.5	8.8 - 12.7	9.4 - 13.3	10.6 - 15.5	
45°		2.0 - 4.8	3.0 - 5.4	3.9 - 6.3	4.8 - 6.9	5.1 - 7.5	5.4 - 8.1	6.3 - 9.4	

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