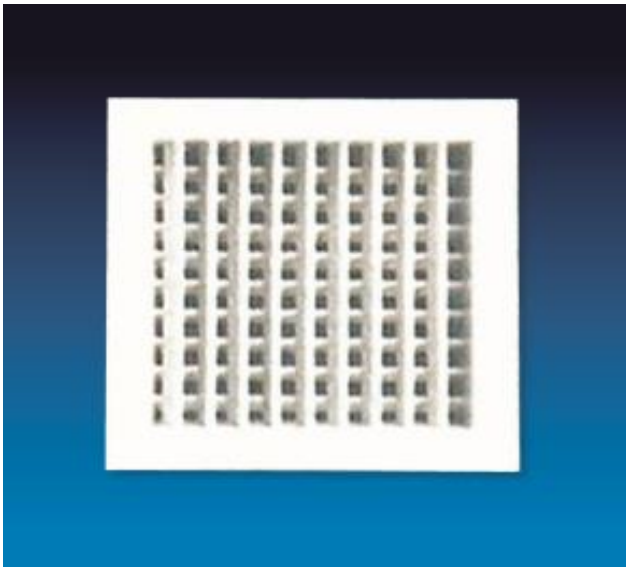


DOUBLE DEFLECTION REGISTERS

Model WSD



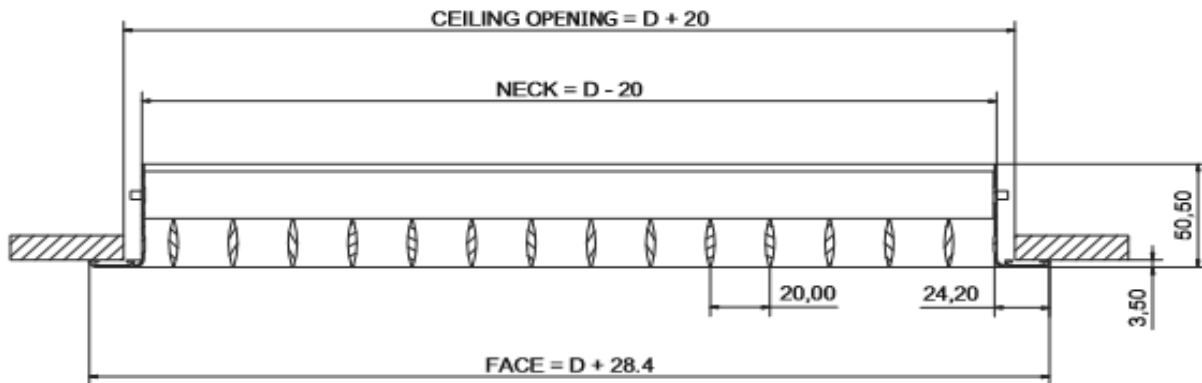
Universal Outlets or Double Deflection Registers are generally used in sidewall applications. They consist of two separate rows of individually adjustable vanes.

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.

The REAR VANES are vertical and are used to direct the air in a straight blow or spread the air as required by the room layout. If required, air flow can be directed at an angle to one or both sides, and still retain a near-parallel air stream pattern.

Construction is all extruded aluminium horizontal and vertical 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.

Double Deflection Registers can be manufactured in a wide range of sizes other than the stock sizes listed below.



Sizes Available	
ITEM #	DESCRIPTION
246150	150 x 150mm
246200	200 x 200mm
246250	250 x 250mm
246300	300 x 300mm
246350	350 x 350mm
246400	400 x 400mm
246550	550 x 500mm

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PERFORMANCE DETAILS
Model WSD

Size (mm)	Core Velocity (m/s)		1.5	2	2.5	3	3.5	4	5
	Pressure Drop (P/a)	0° 22.5° 45°	4 4 7	7 8 12	10 12 18	15 17 26	20 33 36	27 31 47	41 48 72
150 x 150	Flowrate (l/s)		28	38	47	57	66	76	94
	NC Level		—	—	—	14	19	23	29
	Throw (m)	0° 22.5° 45°	1.1 - 3.0 0.8 - 2.0 0.2 - 1.1	1.7 - 3.9 1.1 - 3.0 0.5 - 1.4	2.7 - 4.5 2.0 - 3.3 0.8 - 1.7	3.3 - 5.1 2.4 - 3.9 1.1 - 2.0	3.6 - 5.4 2.7 - 4.2 1.4 - 2.4	3.9 - 6.0 3.0 - 4.5 1.4 - 2.7	4.5 - 6.6 3.3 - 5.1 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° 22.5° 45°	1.7 - 4.8 1.1 - 3.6 0.5 - 2.0	3.3 - 5.7 2.4 - 4.5 1.1 - 2.4	3.9 - 6.6 3.0 - 5.1 1.4 - 3.0	4.8 - 7.2 3.6 - 5.7 2.0 - 3.3	5.4 - 7.8 4.2 - 6.0 2.4 - 3.6	5.7 - 7.8 4.5 - 6.9 2.4 - 3.9	6.3 - 9.4 4.8 - 7.2 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° 22.5° 45°	2.4 - 5.4 1.7 - 4.2 0.8 - 2.4	3.9 - 6.3 3.0 - 4.8 1.4 - 2.7	4.8 - 7.5 3.6 - 5.7 2.0 - 3.3	5.4 - 8.1 4.2 - 6.3 2.4 - 3.6	6.0 - 8.8 4.5 - 6.9 2.7 - 3.9	6.3 - 9.7 4.8 - 7.5 2.7 - 4.5	7.5 - 10.9 5.7 - 8.4 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° 22.5° 45°	3.3 - 6.9 2.4 - 5.4 1.1 - 3.0	4.5 - 7.8 3.3 - 6.0 1.7 - 3.6	6.0 - 9.1 4.5 - 6.9 2.7 - 4.2	6.9 - 10.0 5.4 - 7.8 3.0 - 4.5	7.2 - 10.9 5.7 - 8.4 3.3 - 5.1	7.8 - 11.8 6.0 - 9.4 3.6 - 5.4	9.1 - 13.3 6.9 - 10.6 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° 22.5° 45°	4.5 - 9.1 3.3 - 6.9 1.7 - 4.2	6.6 - 10.9 5.1 - 8.4 3.0 - 5.1	7.8 - 11.8 6.0 - 9.4 3.6 - 5.4	9.1 - 13.3 6.9 - 10.6 4.2 - 6.3	10.0 - 14.5 7.8 - 11.5 4.5 - 6.9	10.9 - 15.5 8.4 - 12.1 5.1 - 7.2	11.8 - 17.3 9.4 - 13.6 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° 22.5° 45°	5.1 - 10.6 3.9 - 8.1 2.0 - 4.8	6.9 - 11.8 5.4 - 9.4 3.0 - 5.4	8.8 - 13.3 6.9 - 10.6 3.9 - 6.3	10.3 - 14.5 8.1 - 11.5 4.8 - 6.9	11.2 - 16.1 8.8 - 12.7 5.1 - 7.5	11.8 - 17.0 9.4 - 13.3 5.4 - 8.1	13.3 - 19.4 10.6 - 15.5 6.3 - 9.4
600 x 600	Flowrate (l/s)		537	715	894	1073	1252	1431	1789
	NC Level		—	13	20	25	30	34	40
	Throw (m)	0° 22.5° 45°	7.8 - 15.8 6.0 - 12.4 3.6 - 7.5	10.9 - 17.9 8.4 - 14.2 5.1 - 8.4	13.6 - 20.3 10.6 - 16.1 6.3 - 9.7	15.8 - 22.5 12.4 - 17.9 7.5 - 10.9	17.0 - 24.3 13.3 - 19.1 8.1 - 11.8	17.9 - 26.1 14.2 - 20.6 8.4 - 12.7	20.3 - 29.2 16.1 - 23.1 9.7 - 14.2