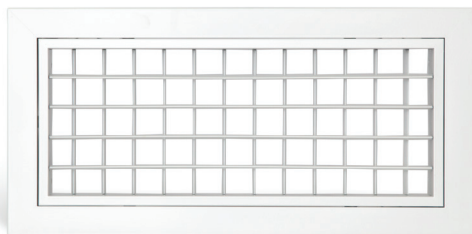


AIRFOIL



GRILLES
DUCT
FITTINGS

making it happen sooner...



DOUBLE DEFLECTION REGISTER (RC2AR)

Airfoil's Double Deflection Register with Removable Core is used for supply air functions. The double set of fully adjustable blades gives a high level of control of the air pattern across four directions. Incorporating two sets of individually adjustable blades, the front blades may be adjusted up or down and the rear blades are adjusted side to side.

Made from high-grade extruded aluminium sections to ensure functional strength and performance, Airfoil's Double Deflection Register provides a contemporary attractive feel and modern look. It comes in standard powder coated white with optional colours and finishes available on request.

Double Deflection Register with Removable Core Options

- > Flange size: 32mm standard with optional 25mm or 38mm
- > Blade spacing: 19mm or 25mm
- > Custom-made to any size dimensions
- > Horizontal blades or vertical blades at the front
- > Specific colours and finishes available on request

Product specification codes:

RC2ARH Removable core double deflection register with front horizontal blades

RC2ARV Removable core double deflection register with front vertical blades

Specification: Product code + size.

Example:

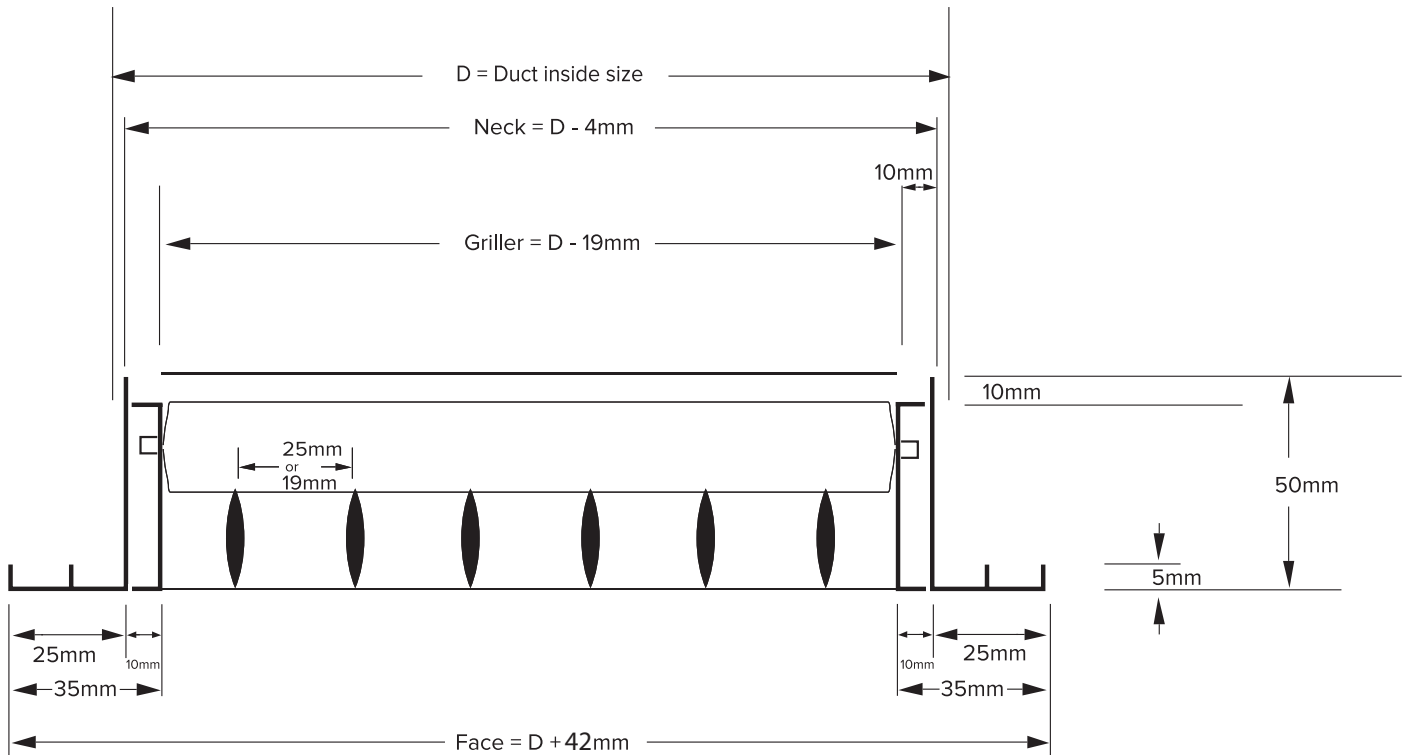
RC2ARH200x150 Removable Core Double Deflection Register with front horizontal blades width 200mm x height 150mm

RC2ARV150x200 Removable Core Double Deflection Register with front vertical blades height 150mm x width 200mm



DOUBLE DEFLECTION REGISTER

Cross Sectional Diagram: Model RC2ARH



DOUBLE DEFLECTION REGISTER

Performance Data 25mm Centres

AREA FACTOR		0.17			0.33			0.5			0.66			1.0			1.25		
NECK AREA — M ²		0.023			0.045			0.068			0.090			0.135			0.169		
TYPICAL SIZES		150 X 150 225 X 100			225 X 200 300 X 150 450 X 100			300 X 225 450 X 150 675 X 100			300 X 300 400 X 225 600 X 150			450 X 300 600 X 225 900 X 150			450 X 375 675 X 250 750 X 225		
SPREAD ANGLE		0° 22½° 45°			0° 22½° 45°			0° 22½° 45°			0° 22½° 45°			0° 22½° 45°			0° 22½° 45°		
l/s	Throw Metres — min	3.2	2.2	2.0	2.2	1.7	1.4												
	Throw Metres — max	5.1	3.4	2.2	3.4	2.5	2.0												
	Static Pressure — (Pa)	2.5	5.0	7.5	—	—	—												
94	Throw Metres — min	6.2	4.8	3.7	4.3	3.2	2.5	3.4	2.5	2.0	3.2	2.2	1.4						
	Throw Metres — max	9.3	7.1	5.4	6.8	4.8	3.7	5.4	4.0	2.8	4.8	3.4	2.8						
	Static Pressure — (Pa)	10	22.5	32.5	2.5	5	10	—	—	2.5	—	—	—						
141	Throw Metres — min				6.5	4.5	3.7	5.4	3.7	2.8	4.5	3.4	2.2	4.0	2.5	2.0			
	Throw Metres — max				10.3	7.3	5.7	8.2	5.9	4.5	7.3	5.1	4.0	5.7	4.3	3.2			
	Static Pressure — (Pa)				7.5	12.5	20	2.5	5	7.5	—	2.5	5	—	—	—			
189	Throw Metres — min				8.4	6.2	5.1	7.1	5.1	3.7	6.2	4.8	3.4	5.1	3.7	2.5	4.5	3.4	2.4
	Throw Metres — max				13.5	9.8	7.3	10.2	7.9	5.9	9.8	7.1	5.1	7.6	5.7	4.0	7.3	5.3	3.9
	Static Pressure — (Pa)				10	22.5	32.5	5	7.5	12.5	2.5	5	10	—	—	2.5	—	—	—
236	Throw Metres — min							8.1	6.2	5.2	7.6	5.7	4.3	6.2	4.5	3.4	5.7	4.3	3.3
	Throw Metres — max							13.5	9.8	7.3	12.4	9.0	6.5	9.6	7.1	5.4	8.7	6.8	5.1
	Static Pressure — (Pa)							7.5	12.5	20	5	10	12.5	—	2.5	5	—	—	3.5
283	Throw Metres — min							10.4	7.6	5.7	9.3	6.8	4.8	7.6	5.4	4.0	7.1	4.9	3.9
	Throw Metres — max							16.3	11.9	8.7	14.7	10.1	7.9	11.5	7.9	6.2	10.9	7.5	6.0
	Static Pressure — (Pa)							10	17.5	25	7.5	12.5	20	2.5	5	7.5	1.5	4	6
330	Throw Metres — min										11.3	7.9	5.9	8.4	6.2	4.8	8.2	5.9	4.5
	Throw Metres — max										16.9	12.4	9.3	14.1	9.8	7.2	12.7	9.0	6.8
	Static Pressure — (Pa)										10	17.5	25	5	7.5	10	3.5	6.0	9
375	Throw Metres — min										12.4	9.3	6.8	9.6	7.1	5.1	9.3	6.8	4.8
	Throw Metres — max										19.7	14.1	10.3	15.2	10.4	8.2	14.4	10.1	7.7
	Static Pressure — (Pa)										12.5	22.5	32.5	5	7.5	12.5	3.5	6	11
425	Throw Metres — min										14.1	10.1	7.6	10.4	7.6	5.9	10.1	7.3	5.7
	Throw Metres — max										22.3	15.2	11.9	16.9	12.4	9.3	15.8	11.3	8.7
	Static Pressure — (Pa)										15	27.5	40	5	10	15	5	8.5	12.5
472	Throw Metres — min													12.4	8.7	6.5	11.3	8.2	6.2
	Throw Metres — max													18.5	14.1	10.4	17.6	13.1	9.8
	Static Pressure — (Pa)													7.5	12.5	20	6.5	11	15
566	Throw Metres — min													15.8	10.4	7.9	13.9	9.8	7.5
	Throw Metres — max													22.6	16.9	12.2	20.8	15.8	11.9
	Static Pressure — (Pa)													10	17.5	25	8.5	14	22.5
660	Throw Metres — min													16.9	12.2	9.3	16.6	11.6	8.7
	Throw Metres — max													27.3	19.7	14.1	25.2	18.2	13.6
	Static Pressure — (Pa)													12.5	25	35	11	20	30
755	Throw Metres — min																17.8	13.4	10.1
	Throw Metres — max																29.8	21.8	15.9
	Static Pressure — (Pa)																14	25	37.5
850	Throw Metres — min																		
	Throw Metres — max																		
	Static Pressure — (Pa)																		
944	Throw Metres — min																		
	Throw Metres — max																		
	Static Pressure — (Pa)																		
1180	Throw Metres — min																		
	Throw Metres — max																		
	Static Pressure — (Pa)																		
1416	Throw Metres — min																		
	Throw Metres — max																		
	Static Pressure — (Pa)																		
	Throw Metres — min																		

Throw measurements are at 1.5mls min and .65mls max terminal velocity.

DOUBLE DEFLECTION REGISTER

Performance Data 25mm Centres

AREA FACTOR		1.33	1.5	1.66	2.0	2.5	2.66
NECK AREA — M ²		0.180	0.203	0.225	0.270	0.338	0.360
TYPICAL SIZES		600 x 300 900 x 200 1200 x 150	450 x 450 675 x 300 900 x 225	600 x 375 750 x 300 1500 x 150	600 x 450 900 x 300 1200 x 225	750 x 450 900 x 375 1125 x 300	600 x 600 800 x 450 1200 x 300
SPREAD ANGLE		0° 22½° 45°	0° 22½° 45°	0° 22½° 45°	0° 22½° 45°	0° 22½° 45°	0° 22½° 45°
94	Throw Metres — max Static Pressure — (Pa)						
141	Throw Metres — min Throw Metres — max Static Pressure — (Pa)						
189	Throw Metres — min Throw Metres — max Static Pressure — (Pa)	4.3 3.2 2.2 6.8 5.0 3.8 — — —					
236	Throw Metres — min Throw Metres — max Static Pressure — (Pa)	5.4 4.0 3.2 8.7 6.2 5.2 — — 2.5	4.3 3.2 2.5 6.8 4.8 3.7 — — —				
283	Throw Metres — min Throw Metres — max Static Pressure — (Pa)	6.5 4.5 3.7 10.4 7.3 4.8 — 2.5 5	5.9 4.3 3.2 9.3 7.1 4.8 — — 2.5	5.3 3.8 3.0 8.4 5.8 4.5 — — —	4.8 3.7 2.8 7.9 5.4 4.3 — — —		
330	Throw Metres — min Throw Metres — max Static Pressure — (Pa)	7.6 5.7 4.3 11.9 8.7 6.5 2.5 5 7.5	6.8 4.8 3.7 10.4 7.6 5.9 — 2.5 5	6.2 4.5 3.4 9.8 6.5 5.1 — — 2.5	5.9 4.3 3.2 9.3 7.1 4.8 — — 2.5		
375	Throw Metres — min Throw Metres — max Static Pressure — (Pa)	9.0 6.5 4.5 13.5 9.8 7.4 2.5 5 10	8.2 5.7 4.3 12.9 9.0 6.8 1.5 4 6	7.3 5.4 4.0 11.2 7.9 6.4 — 2.5 5	6.8 4.8 3.7 10.4 6.6 5.7 — — 2.5	6.2 4.3 3.3 9.4 6.6 5.1 — — —	5.9 4.0 3.2 8.7 6.2 4.8 — — —
425	Throw Metres — min Throw Metres — max Static Pressure — (Pa)	9.8 7.1 5.4 15.2 10.8 8.4 5 7.5 10	9.0 6.2 4.8 14.1 9.8 7.3 2.5 5 7.5	8.2 5.7 4.3 12.9 9.0 6.8 1.5 4 6	7.6 5.7 4.0 11.9 8.7 6.5 — 2.5 5	6.9 4.9 3.6 10.8 7.7 5.8 — — 3	6.5 4.5 3.4 10.4 7.1 5.4 — — 2.5
472	Throw Metres — min Throw Metres — max Static Pressure — (Pa)	10.8 7.9 5.9 17.1 12.4 9.3 5 10 12.5	9.8 7.1 5.4 15.2 11.3 8.4 1.5 5 10	9.0 6.5 4.9 14.4 10.4 7.9 2.5 5 7	8.4 6.2 4.5 13.5 9.6 7.1 — 2.5 5	8.0 6.2 4.5 13.5 9.6 7.1 — 2.5 5	7.6 5.1 3.7 11.9 8.2 6.5 — — 2.5
566	Throw Metres — min Throw Metres — max Static Pressure — (Pa)	13.0 9.6 7.3 20.2 15.2 11.3 7.5 12.5 20	11.9 8.7 6.5 18.5 13.5 9.9 5 7.5 12.5	10.9 8.2 6.2 17.2 12.1 9.1 2.5 5 10	10.1 7.6 5.7 15.8 11.3 8.4 2.5 5 7.5	9.7 7.1 5.3 14.7 10.6 8.1 1.5 4 6	9.6 6.8 5.1 14.1 10.1 7.8 — 2.5 5
660	Throw Metres — min Throw Metres — max Static Pressure — (Pa)	16.3 11.3 8.4 23.7 17.4 13.0 10 17.5 25	14.1 9.8 7.3 21.3 15.2 11.9 5 10 15	13.8 9.6 7.1 20.8 15.0 11.6 5 7.5 12.5	13.5 9.6 6.9 20.2 14.8 11.3 5 7.5 10	11.7 8.4 6.6 18.0 13.2 10.1 3.5 6 9	10.6 7.9 6.2 16.9 12.1 9.3 2.5 5 7.5
755	Throw Metres — min Throw Metres — max Static Pressure — (Pa)	17.4 13.0 9.6 28.4 19.7 15.2 12.5 22.5 32.5	15.2 11.9 8.2 24.9 18.0 13.5 7.5 12.5 20	14.1 10.1 7.7 22.2 16.3 12.1 5 10 15	13.5 9.6 7.3 20.8 15.2 11.3 5 7.5 12.5	12.8 9.4 6.9 20.2 14.6 10.6 3.5 6 11	12.4 8.9 6.8 19.7 14.1 10.1 2.5 5 7.5
850	Throw Metres — min Throw Metres — max Static Pressure — (Pa)	19.7 14.7 10.6 30.4 22.6 16.9 15 27.5 40	17.4 13.0 9.6 28.9 19.7 14.7 10 17.5 25	16.0 12.1 8.7 25.5 17.7 13.8 7.5 12.5 20	15.2 10.8 8.2 23.7 16.9 13.0 7.5 10 15	14.7 10.4 7.7 23.1 16.1 12.4 5 8.5 12.5	14.1 10.1 7.4 22.6 15.6 11.7 5 7.5 10
944	Throw Metres — min Throw Metres — max Static Pressure — (Pa)		19.7 14.1 10.8 31.3 22.6 16.7 12.5 22.5 32.5	18.0 13.0 9.9 27.9 20.4 15.2 10 17.5 25	16.9 11.9 9.0 26.1 18.5 14.1 17.5 12.5 20	15.9 11.3 8.7 25.1 16.8 13.6 6.5 11 15	15.4 11.0 8.4 24.5 16.9 13.3 5 7.5 12.5
1180	Throw Metres — min Throw Metres — max Static Pressure — (Pa)			21.4 15.8 11.9 32.6 25.2 19.5 12.5 22.5 32.5	20.8 15.2 11.3 31.5 23.7 18.1 10 20 30	20.1 14.6 11.0 30.5 22.9 16.9 8.5 14 22.5	18.4 13.9 10.7 29.8 22.6 16.3 7.5 12.5 20
1416	Throw Metres — min Throw Metres — max Static Pressure — (Pa)				24.7 18.4 13.4 38.2 28.2 20.8 15 27.5 40	23.4 17.2 13.1 35.2 26.8 19.5 12.5 22.5 32.5	22.6 16.6 12.5 33.7 26.1 18.7 10 17.5 25
1888	Throw Metres — min Throw Metres — max Static Pressure — (Pa)						29.9 17.8 13.4 42.9 31.7 25.4 15 27.5 40
2360	Throw Metres — min Throw Metres — max Static Pressure — (Pa)						

Throw measurements are at 1.5mls min and .65mls max terminal velocity.

DOUBLE DEFLECTION REGISTER

Performance Data 25mm Centres

AREA FACTOR		3.0	4.0	5.0	6.0	8.15
NECK AREA — M ²		0.405	0.540	0.675	0.810	1.10
TYPICAL SIZES		675 x 600 900 x 450	900 x 600 1200 x 450 1800 x 300	900 x 750 1500 x 450	900 x 900 1350 x 600 1800 x 450	1050 x 1050
SPREAD ANGLE		0° 22½° 45°	0° 22½° 45°	0° 22½° 45°	0° 22½° 45°	0° 22½° 45°
141	Throw Metres — max Static Pressure — (Pa)					
189	Throw Metres — min Throw Metres — max Static Pressure — (Pa)					
236	Throw Metres — min Throw Metres — max Static Pressure — (Pa)					
283	Throw Metres — min Throw Metres — max Static Pressure — (Pa)					
330	Throw Metres — min Throw Metres — max Static Pressure — (Pa)					
375	Throw Metres — min Throw Metres — max Static Pressure — (Pa)					
425	Throw Metres — min Throw Metres — max Static Pressure — (Pa)	6.2 4.3 3.4 9.8 6.8 5.1 — — —				
472	Throw Metres — min Throw Metres — max Static Pressure — (Pa)	7.1 4.8 3.4 10.6 7.6 5.9 — — —				
566	Throw Metres — min Throw Metres — max Static Pressure — (Pa)	8.2 6.2 4.5 13.0 9.3 7.1 — — 2.5	6.8 4.8 3.7 10.4 7.6 5.7 — — —			
660	Throw Metres — min Throw Metres — max Static Pressure — (Pa)	9.8 7.1 5.1 15.2 11.3 8.4 — 2.5 5	7.6 5.7 4.3 12.4 8.7 6.5 — — 2.5			
755	Throw Metres — min Throw Metres — max Static Pressure — (Pa)	11.3 8.2 6.2 17.4 13.0 9.6 — 2.5 5	8.7 6.5 4.8 14.1 9.8 7.6 — — 2.5			
850	Throw Metres — min Throw Metres — max Static Pressure — (Pa)	13.0 9.0 6.8 19.7 14.1 10.4 2.5 5 7.5	10.1 7.3 5.7 15.2 11.3 8.5 — 2.5 5	8.9 6.8 5.1 14.1 10.4 8.2 — — 2.5	8.4 6.2 4.0 13.5 9.8 7.6 — — —	
944	Throw Metres — min Throw Metres — max Static Pressure — (Pa)	14.1 10.1 7.3 21.1 15.8 11.9 2.5 5 10	11.9 7.9 5.9 16.9 12.4 9.3 — 2.5 5	10.6 7.5 5.7 15.7 11.5 8.9 — — 2.5	9.8 7.1 5.4 15.2 10.9 8.4 — — —	
1180	Throw Metres — min Throw Metres — max Static Pressure — (Pa)	17.4 12.6 9.6 27.1 19.7 14.7 5 10 12.5	14.1 9.8 7.6 21.7 15.2 11.9 2.5 5 7.5	13.1 9.6 7.3 20.1 14.3 10.9 — 2.5 5	12.4 9.2 7.1 18.4 13.4 10.4 — — 2.5	10.1 7.1 5.4 15.2 10.1 8.1 — — —
1416	Throw Metres — min Throw Metres — max Static Pressure — (Pa)	20.2 15.5 13.3 31.5 23.7 17.4 7.5 12.5 20	16.9 11.9 9.0 24.3 19.3 14.1 5 10 12.5	15.9 11.2 8.4 23.5 17.7 13.5 2.5 5 7.5	14.7 10.6 8.2 22.6 16.9 13.0 — 2.5 5	11.9 8.4 6.5 18.5 13.5 9.8 — — 2.5
1888	Throw Metres — min Throw Metres — max Static Pressure — (Pa)	28.2 17.4 12.7 40.8 30.4 23.7 12.5 22.5 32.5	23.0 15.8 11.9 34.1 24.8 18.5 9.5 12.5 20	20.2 14.9 11.0 32.2 22.9 17.7 5 7.5 12.5	18.5 14.1 10.6 30.4 21.1 16.9 2.5 5 7.5	15.6 11.3 8.4 24.5 18.0 14.5 — 2.5 5
2360	Throw Metres — min Throw Metres — max Static Pressure — (Pa)		28.2 17.8 15.2 42.6 30.6 23.2 12.5 22.5 32.5	27.0 17.4 14.6 38.8 28.7 21.4 7.5 12.5 20	26.1 16.8 14.1 34.8 28.2 20.2 5 10 12.5	19.7 14.1 10.6 30.4 22.6 16.9 2.5 5 7.5

Throw measurements are at 1.5mls min and .65mls max terminal velocity.