

# AIRFOIL



GRILLES  
DUCT  
FITTINGS

*making it happen sooner...*



## CURVED BLADE REGISTERS (CR)

Airfoil's Curved Blade Registers frame style are generally flush mounted to the ceiling line and are manufactured from high quality aluminium. The curved blade register is adjustable and comes with a fixing clip neck adaptor or cushion box. It comes in standard in powder coated white.

### Curved Blade Register Options

- > *Non-standard colours or finishes available on request*
- > *Available in fixed or removable core*
- > *Available in 4 different patterns*
- > *Special sizes are manufactured on request*
- > *Optional MDO style on request*

### Product specification codes:

<b>CR4</b>	4 way curved blade blow diffuser with fixed core	<b>RCCR4</b>	4 way curved blade blow diffuser with removable core
<b>CR3</b>	3 way curved blade blow diffuser with fixed core	<b>RCCR3</b>	3 way curved blade blow diffuser with removable core
<b>CR2</b>	2 way curved blade blow diffuser with fixed core	<b>RCCR2</b>	2 way curved blade blow diffuser with removable core
<b>CR1</b>	1 way curved blade blow diffuser with fixed core	<b>RCCR1</b>	1 way curved blade blow diffuser with removable core

Specification: Product code + size.

Example: **CR3 450x450** 3 way curved blade blow diffuser with fixed core 450mm x 450mm



**Celebrating**  
**40** years  
Established **1976**

# CURVED BLADE REGISTERS (CR)



4 WAY BLOW (CR4)



3 WAY BLOW (CR3)

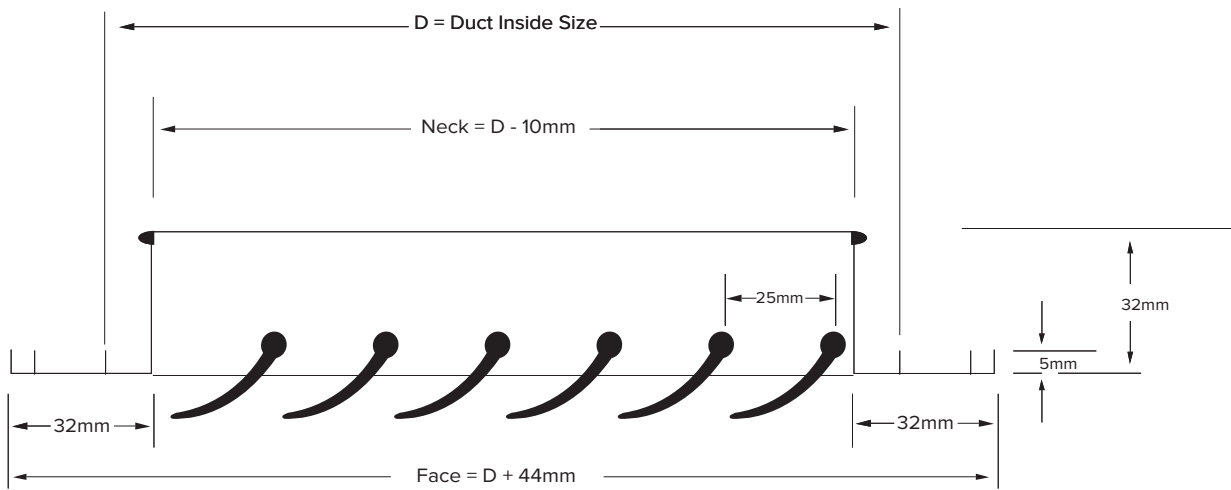


2 WAY BLOW (CR2)

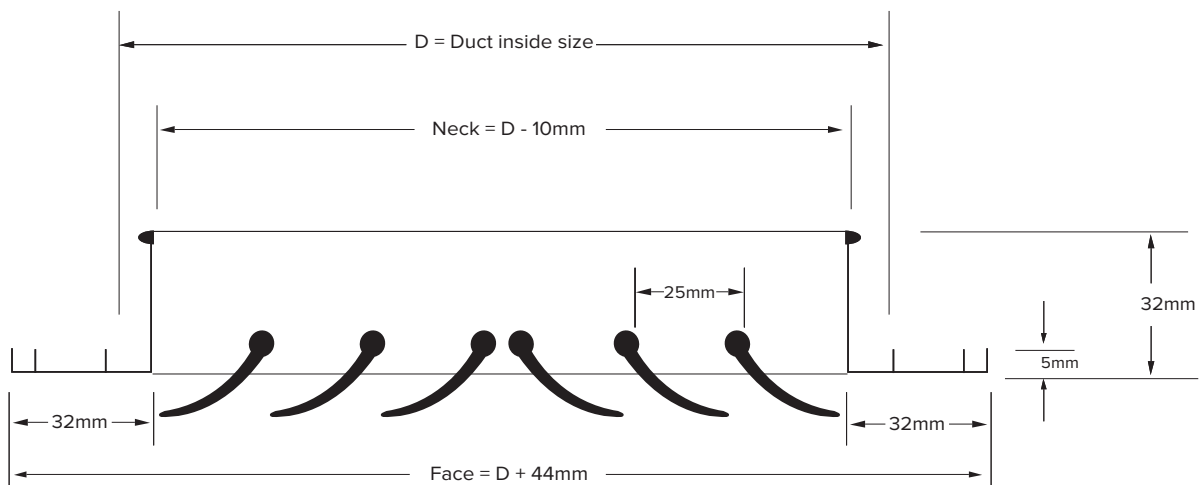


1 WAY BLOW (CR1)

Cross sectional diagram CR1



Cross sectional diagram CR2



# CURVED BLADE REGISTERS 4 WAY BLOW (CR4)



Performance Data

Face Velocity	1 m/s			1.5 m/s			2 m/s			2.5 m/s		
Neck Size	l/s	Throw m	Stat Pres (Pa)	l/s	Throw m	Stat Pres (Pa)	l/s	Throw m	Stat Pres (Pa)	l/s	Throw m	Stat Pres (Pa)
300x300	56	.6	1.5	80	.9	2.75	108	1.3	4.5	124	1.8	6
400x400	100	.6	1.5	140	1.2	2.75	192	1.5	4.5	232	2.1	6
450x300	85	.6	1.5	129	.9	2.75	154	1.5	4.5	197	2	6
450x450	133	.9	1.5	185	1.2	2.75	234	1.8	4.5	294	2.3	6
600x300	114	.6	1.5	168	1.2	2.75	215	1.8	4.5	275	2	6
600x450	177	.9	1.5	266	1.5	2.75	343	2.3	4.5	242	2.6	6
600x600	240	1.2	1.5	366	2	2.75	481	2.7	4.5	575	3.4	6

Face Velocity	3 m/s			3.5 m/s			4 m/s		
Neck Size	l/s	Throw m	Stat Pres (Pa)	l/s	Throw m	Stat Pres (Pa)	l/s	Throw m	Stat Pres (Pa)
300x300	146	2.1	8	166	2.2	9.25	195	2.4	12.5
400x400	276	2.7	8	314	3.1	9.25	360	3.6	12.5
450x300	235	2.4	8	270	3	9.25	314	3.3	12.5
450x450	368	3	8	414	3.6	9.25	470	4.2	12.5
600x300	316	2.7	8	326	3.5	9.25	400	3.9	12.5
600x450	520	3.6	8	595	4.3	9.25	662	4.9	12.5
600x600	700	4.3	8	790	5.2	9.25	910	5.8	12.5

# CURVED BLADE REGISTERS 3 WAY BLOW (CR3)



Performance Data

Face Velocity	1 m/s			1.5 m/s			2 m/s			2.5 m/s		
	Neck Size	l/s	Throw m	Stat Pres (Pa)	l/s	Throw m	Stat Pres (Pa)	l/s	Throw m	Stat Pres (Pa)	l/s	Throw m
300x300	57	.6	1	82	.9	2.5	110	1.3	3.75	127	1.8	5.5
400x400	103	.6	1.25	143	1.2	2.5	196	1.5	3.75	236	2.1	5.5
450x300	87	.6	1.25	131	.9	2.5	158	1.5	3.75	201	2	5.5
450x450	135	.9	1.25	190	1.2	2.5	242	1.8	3.75	302	2.3	5.5
600x300	116	.6	1.25	170	1.2	2.5	220	1.8	3.75	280	2	5.5
600x450	180	.9	1.25	269	1.5	2.5	349	2.4	3.75	432	2.7	5.5
600x600	245	1.2	1.25	371	2.1	2.5	490	2.7	3.75	585	3.4	5.5

Face Velocity	3 m/s			3.5 m/s			4 m/s		
	Neck Size	l/s	Throw m	Stat Pres (Pa)	l/s	Throw m	Stat Pres (Pa)	l/s	Throw m
300x300	150	2.1	7	170	2.2	7.75	200	2.4	10.5
400x400	284	2.7	7	322	3.2	7.75	370	3.7	10.5
450x300	240	2.4	7	275	3.1	7.75	322	3.4	10.5
450x450	376	3	7	422	3.7	7.75	485	4.3	10.5
600x300	324	2.7	7	334	3.6	7.75	415	4	10.5
600x450	530	3.7	7	610	4.4	7.75	680	4.9	10.5
600x600	720	4.3	7	810	5.2	7.75	930	5.8	10.5

# CURVED BLADE REGISTERS 2 WAY BLOW (CR2)



Performance Data:

Face Velocity	1 m/s			1.5 m/s			2 m/s			2.5 m/s		
Neck Size	l/s	Throw m	Stat Pres (Pa)	l/s	Throw m	Stat Pres (Pa)	l/s	Throw m	Stat Pres (Pa)	l/s	Throw m	Stat Pres (Pa)
300x300	59	.9	1.25	83	1.9	2	112	1.5	3.5	130	2.1	4.25
400x400	105	.6	1.25	146	1.5	2.25	200	2.7	3.5	240	3.6	4.25
450x300	88	.9	1.25	133	1.2	2.25	162	1.8	3.5	205	3.4	4.25
450x450	137	1.2	1.25	195	1.8	2.25	251	2.4	3.5	310	3.7	4.25
600x300	118	.9	1.25	172	1.8	2.25	225	2.4	3.5	285	3.0	4.25
600x450	182	1.2	1.25	272	2.1	2.25	355	3.0	3.5	440	3.9	4.25
600x600	247	1.5	1.25	375	2.4	2.25	500	3.7	3.5	595	4.7	4.25

Face Velocity	3 m/s			3.5 m/s			4 m/s		
Neck Size	l/s	Throw m	Stat Pres (Pa)	l/s	Throw m	Stat Pres (Pa)	l/s	Throw m	Stat Pres (Pa)
300x300	155	2.4	6.5	175	3	7	210	3.4	10
400x400	290	4.7	6.5	330	5.2	7	380	5.9	10
450x300	245	3.7	6.5	280	4	7	330	4.3	10
450x450	380	4	6.5	430	4.7	7	500	5.4	10
600x300	330	3.7	6.5	342	4.4	7	430	5.2	10
600x450	540	4.6	6.5	625	5.5	7	700	6.1	10
600x600	735	5.5	6.5	830	6.4	7	960	7.3	10

# CURVED BLADE REGISTERS 1 WAY BLOW (CR1)



## Performance Data

Face Velocity	1 m/s			1.5 m/s			2 m/s			2.5 m/s		
Neck Size	l/s	Throw m	Stat Pres (Pa)	l/s	Throw m	Stat Pres (Pa)	l/s	Throw m	Stat Pres (Pa)	l/s	Throw m	Stat Pres (Pa)
300x300	60	.9	.75	85	1.5	1.5	115	2.1	2.5	135	3	3.75
400x400	105	1.5	1	150	2.1	1.75	205	3.0	2.5	245	4	3.75
450x300	90	1.2	1	135	1.8	1.75	165	2.7	2.5	210	3.7	3.75
450x450	140	1.5	1	200	2.7	1.75	260	3.7	2.5	320	4.6	3.75
600x300	120	1.5	1	175	2.1	1.75	230	3.4	2.5	290	4.3	3.75
600x450	185	2.1	1	275	3.0	1.75	360	4.3	2.5	450	4	3.75
600x600	250	2.4	1	380	3.7	1.75	510	5.2	2.5	610	6.7	3.75

Face Velocity	3 m/s			3.5 m/s			4 m/s		
Neck Size	l/s	Throw m	Stat Pres (Pa)	l/s	Throw m	Stat Pres (Pa)	l/s	Throw m	Stat Pres (Pa)
300x300	160	3.4	5	180	4	6.25	215	4.6	7.5
400x400	300	4.9	5	340	5.8	6.25	400	6.7	7.5
450x300	250	4.3	5	290	5.5	6.25	340	6.1	10
450x450	390	5.5	5	440	6.7	6.25	520	7.6	10
600x300	340	5.2	5	350	6.1	6.25	450	7	10
600x450	550	6.7	5	640	7.9	6.25	730	8.5	10
600x600	750	7.6	5	850	9.1	6.25	1000	10.3	10