

western airducts

group of companies

grilles and diffusers



CONTENTS

Company Profile	2
Services	3
Square Air Diffuser 4 Way WAD-SAD	4
Square Air Diffuser 3-way WAD-SAD	6
Square Air Diffuser 2-way WAD-SAD	7
Square Air Diffuser WAD-SADE	8
Egg Crate Grille WAD-EG	10
Single Deflection Grille WAD-SG	12
Double Deflection Grille WAD -DG	14
Fixed Deflection Grille WAD-FGR	16
Return Air Grille WAD-VO-FGR	18
Fixed Deflection Grille WAD-FG	19
Fixed Deflection Grille WAD-FGT	20
Strip Air Diffuser WAD-LD	21
External Weather Louver WAD-RF	22
Round Air Diffuser WAD-RAD	24
Round Air Diffuser WAD-SRAD	26
Variable Swirl Air Diffuser WAD-VTD	28
Swirl Air Diffuser- WAD-SSD	30
Ball Spout - WAD-BS	32
Stationed Air Diffuser WAD-LS	34
Stainless Steel Air Intake WAD-OSSI	35
Grille and Diffuser Damper WAD-SVCD	36

Company Profile

Western Air Ducts are leaders in the design and manufacture of Air Diffusion products for the ventilation and air conditioning sectors.

Initially established in the United Kingdom in 1973 as specialists in the design and manufacture of dust and fume control systems the Western Air Ducts Group has grown to now also manufacture spiral ductwork, associated accessories and air diffusion products.

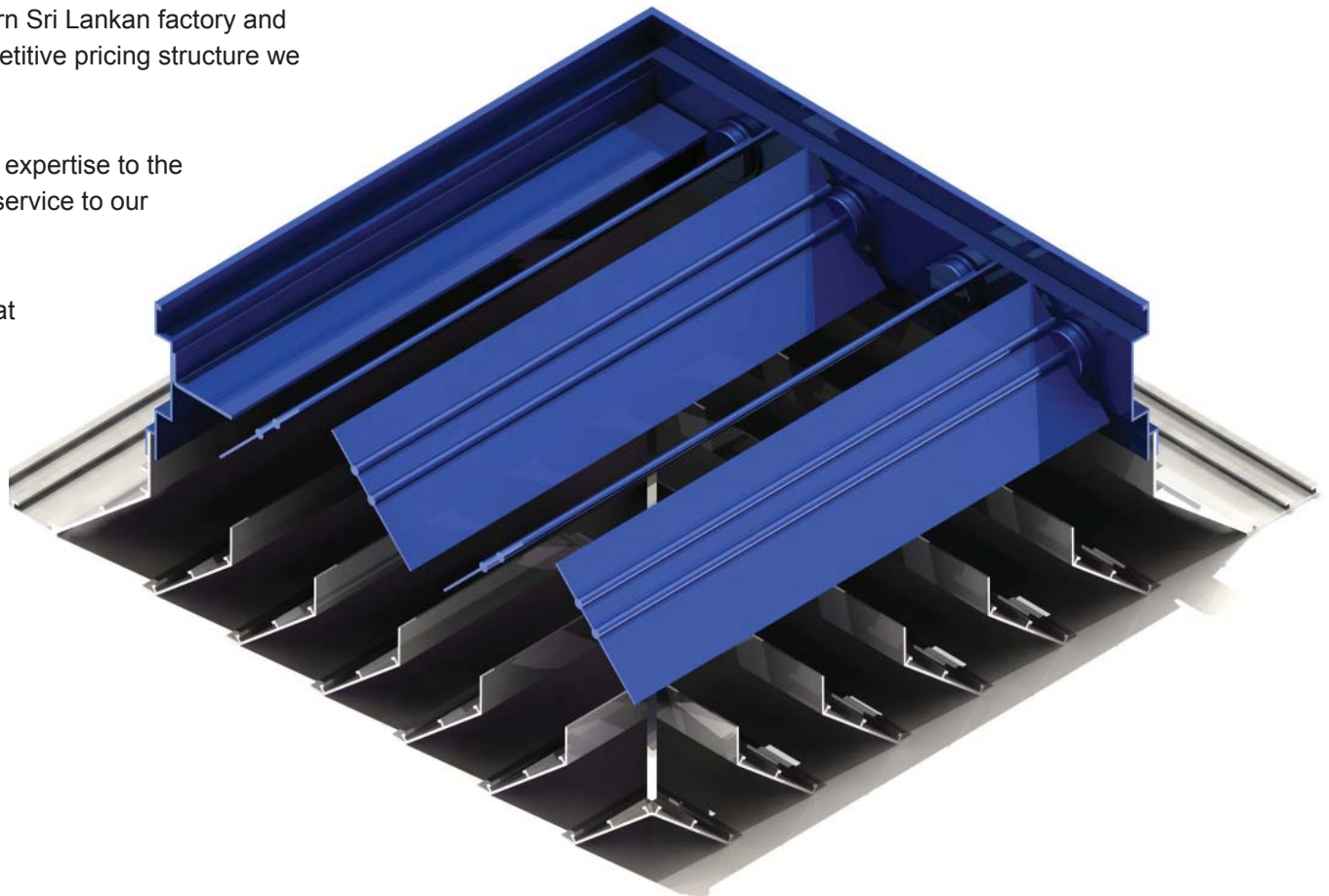
We have manufacturing sites in; India (spiral ducting and accessories), Sri Lanka (grilles and diffusers) and the United Kingdom (air quality control systems) as well as an increasing number of sales offices with sites already in; Pakistan, Singapore and Bangladesh.

The Group continues to expand seeking to explore new markets and design new products to meet the requirements of ventilation and air conditioning markets worldwide.

All of our grilles and diffusers are manufactured in our modern Sri Lankan factory and thanks to our 34 years in the air movement sector and competitive pricing structure we believe we cannot be beaten on value and quality.

Our Company ethos has always been to utilize our business expertise to the very best of our abilities to ensure we provide the very best service to our customers.

Every department is always looking towards the future so that we are able to adapt and continue to succeed in an ever changing workplace.



Services

At Western Air Ducts our mission is to ensure a total service package from point of meeting through to the completed delivery. We ensure that all customer needs are catered for to enable a smooth running service that puts your worries in our hands. Listed below are breakdowns of the services we offer.

INITIAL MEETING / ANALYSIS

One of our Sales Executives will be pleased to discuss with you your requirements in detail. The aim at this stage is to determine exactly what each customer requires in terms of; products, logistics and pricing.



PRICING

Depending on the anticipated volumes required we will create an individual pricing matrix for all products required with competitive pricing to enable you, the customer, to compete in an ever more competitive marketplace.

QUALITY

All products are produced in our modern Sri Lankan factory which in combination with our 34 years experience in the air movement sector means we can be confident our products are as good if not better than any currently available. Our competitive prices along with our solid design and high quality finish ensure peace of mind and ongoing business for both you and the end customer.

FLEXIBILITY

Although we work to our standard designs we are always keen to receive feedback from those using the products. Over the years customer feedback has enabled us to create more useable and better made products thus ensuring the longevity of our products in the market place. We consider this ethos to be a key part to our ongoing success in the industry.

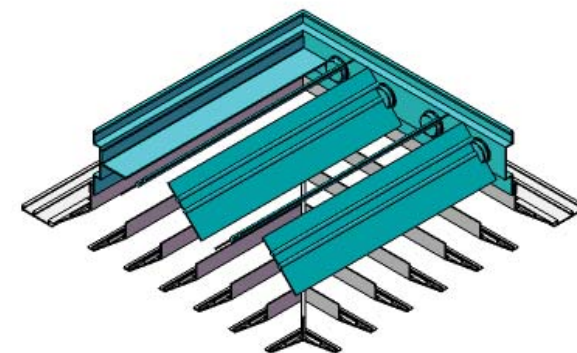
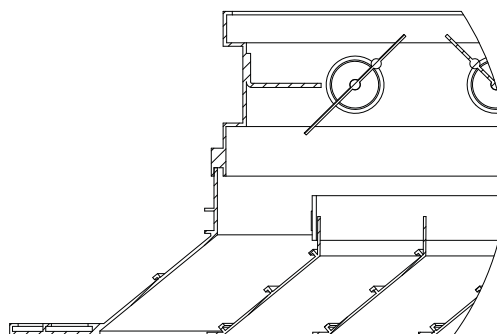
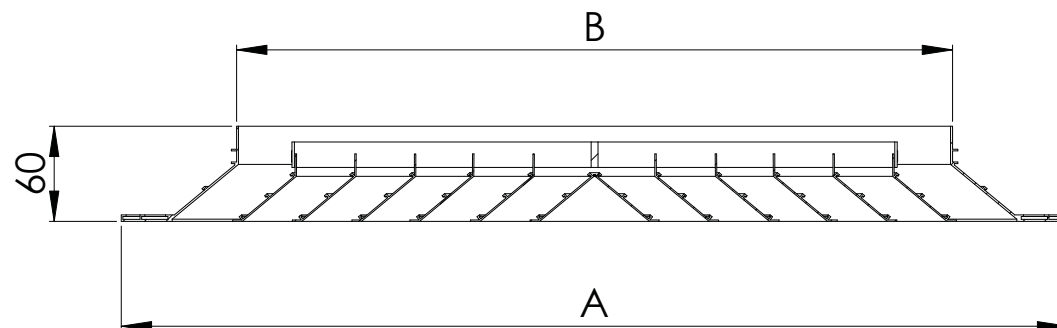
LOGISTICS

Depending on your levels of purchasing we will take care of all your shipping and haulage requirements. If this is the level of service you require this cost would be built into the prices of the products in your individual pricing matrix so what you see is what you pay with no hidden or additional costs to be added. In tune with this we can also provide you with assistance in analysing how best to structure your order to make best use of all of the available space within the various sized shipping containers. Over time this allows both us and our clients to understand exactly what items are being used and over what time-frame thereby allowing better planning for future orders.

For customers with smaller volume requirements we offer a part container service, LCL service and depending on local stockholding arrangements potentially a day to day service from stock. It is our intention to grow our network of Wholesale Distributors in order to be able to reach the widest possible market therefore if you would be interested in becoming a Distributor please do contact us.

Square Air Diffuser

Model: WAD-SAD-4-Way



Material – Aluminium

Paint Finish – All of our diffusers are finished in a very high quality DuPont paint system to an industry standard RAL 9010 20% gloss. More colour variations available to customer requirements upon request.

Features

Our diffusers come with a fully removable central core for easy installation, access and cleaning facility. This central core is attached with a high tensile steel cable to ensure maximum safety.

All products can be used with our innovative air control damper system to regulate airflow. Please see page 36.

Size

Standard Size : Outer measurement (A) = Neck measurement (B) + 148mm

For further technical details on this item please consult our website www.westernairducts.com

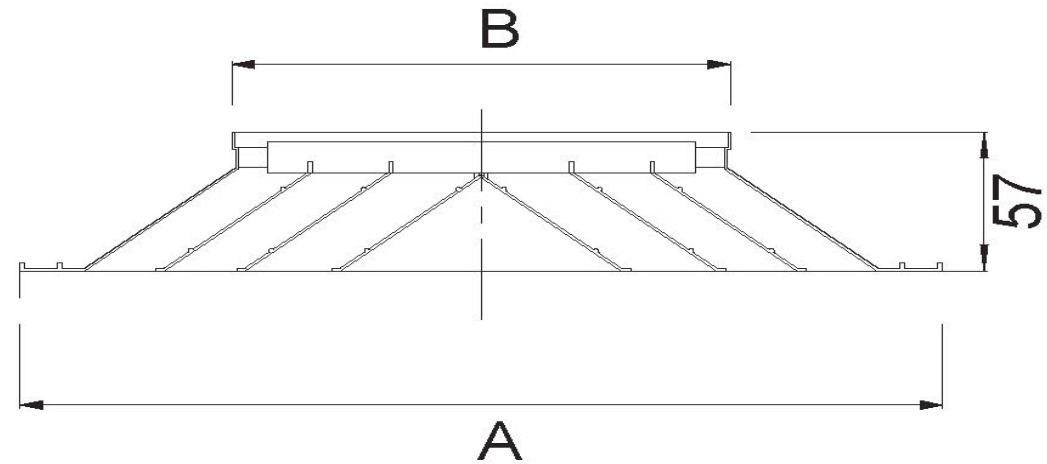
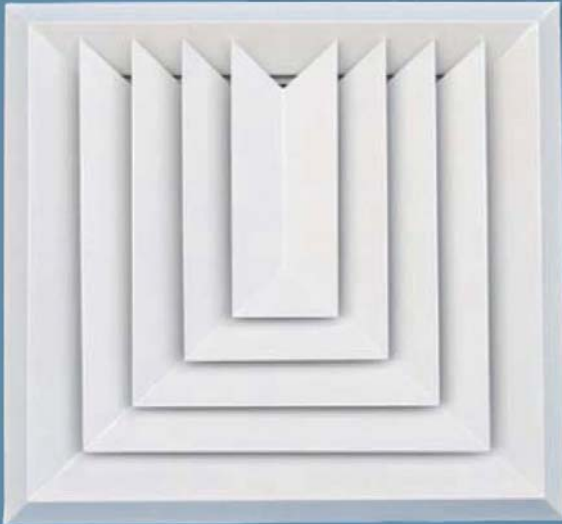
Technical Parameters
Model: WAD-SAD-4-Way

Size	Item	Unit	Air Velocity				
			2	3	4	5	6
200x200mm	Air Volume	Qm³/h	288	432	576	864	1152
	Loss of Static Pressure	mmH ₂ O(Pd)	0.245	0.55	0.979	2.202	3.914
		δ(static)	2.402	2.402	2.402	2.402	2.402
		mmH ₂ O(Pg)	0.63	1.42	2.52	5.67	10
	Center Air Velocity Vx m/sec	Position S=0.5m	1.81	2.75	3.66	5.55	7.1
		S=1.0m	0.82	1.24	1.66	2.44	3.12
		S=2.0m	0.59	0.91	1.2	1.78	2.41
		Vx=0.25m/sec	1.38	2.4			
250x250mm	Air Volume	Qm³/h	450	675	900	1350	1800
	Loss of Static Pressure	mmH ₂ O(Pd)	0.245	0.55	0.979	2.202	3.914
		δ(static)	1.956	1.956	1.956	1.956	1.956
		mmH ₂ O(Pg)	0.481	1.06	1.95	4.35	7.6
	Center Air Velocity Vx m/sec	Position S=0.5m	1.67	2.51	3.32	5	6.7
		S=1.0m	0.77	1.61	1.54	2.32	3
		S=2.0m	0.41	0.6	0.81	1.2	1.66
300x300mm	Air Volume	Qm³/h	648	972	1296	1914	2592
	Loss of Static Pressure	mmH ₂ O(Pd)	0.245	0.55	0.979	2.202	3.914
		δ(static)	1.412	1.412	1.412	1.412	1.412
		mmH ₂ O(Pg)	0.346	0.78	1.38	3.11	5.53
	Center Air Velocity Vx m/sec	Position S=0.5m	0.82	1.23	1.64	2.46	3.28
		S=1.0m	0.36	0.53	0.71	1.07	1.42
		S=2.0m	0.18	0.27	0.36	0.54	0.72
		S=3.0m	0.14	0.21	0.28	0.42	0.56

Size	Item	Unit	Air Velocity				
			2	3	4	5	6
350x350mm	Air Volume	Qm³/h	882	1323	1764	2646	3528
	Loss of Static Pressure	mmH ₂ O(Pd)	0.245	0.55	0.979	2.202	3.914
		δ(static)	1.13	1.13	1.13	1.13	1.13
		mmH ₂ O(Pg)	0.28	0.63	1.13	2.5	4.6
	Center Air Velocity Vx m/sec	Position S=0.5m	0.67	1	1.4	2	2.61
		S=1.0m	0.33	0.5	0.66	0.99	1.32
		S=2.0m	0.19	0.28	0.38	0.55	0.76
400x400mm	Air Volume	Qm³/h	1152	1728	2304	3456	4608
	Loss of Static Pressure	mmH ₂ O(Pd)	0.245	0.55	0.979	2.202	3.914
		δ(static)	1.09	1.09	1.09	1.09	1.09
		mmH ₂ O(Pg)	0.27	0.59	1.1	2.4	4.56
	Center Air Velocity Vx m/sec	Position S=0.5m	0.74	1.05	1.48	2.09	2.9
		S=1.0m	0.46	0.68	0.94	1.36	1.8
		S=2.0m	0.27	0.41	0.54	0.8	1
450x450mm	Air Volume	Qm³/h	1624	2436	3248	4872	6496
	Loss of Static Pressure	mmH ₂ O(Pd)	0.245	0.55	0.979	2.202	3.914
		δ(static)	0.919	0.919	0.919	0.919	0.919
		mmH ₂ O(Pg)	0.245	0.555	0.988	2.22	2.397
	Center Air Velocity Vx m/sec	Position S=0.5m	0.85	1.28	1.71	2.562	3.417
		S=1.0m	0.72	1.08	1.44	2.16	2.88
		S=2.0m	0.43	0.642	0.856	1.283	1.711
		S=3.0m	0.19	0.29	0.38	0.58	0.77
		S=4.0m	-	-	0.16	0.21	0.35
	Extraction Distance	Vx=0.5m/sec	1.44	2.3	3.92	-	-
		Vx=0.25m/sec	2.73	-	-	-	-

Square Air Diffuser

Model: WAD-SAD-3-Way



Material – Aluminium

Paint Finish – All of our diffusers are finished in a very high quality DuPont paint system to an industry standard RAL 9010 20% gloss. More colour variations available to customer requirements upon request.

Features

Our diffusers come with a fully removable central core for easy installation, access and cleaning facility. This central core is attached with a high tensile steel cable to ensure maximum safety.

All products can be used with our innovative air control damper system to regulate airflow. Please see page 36.

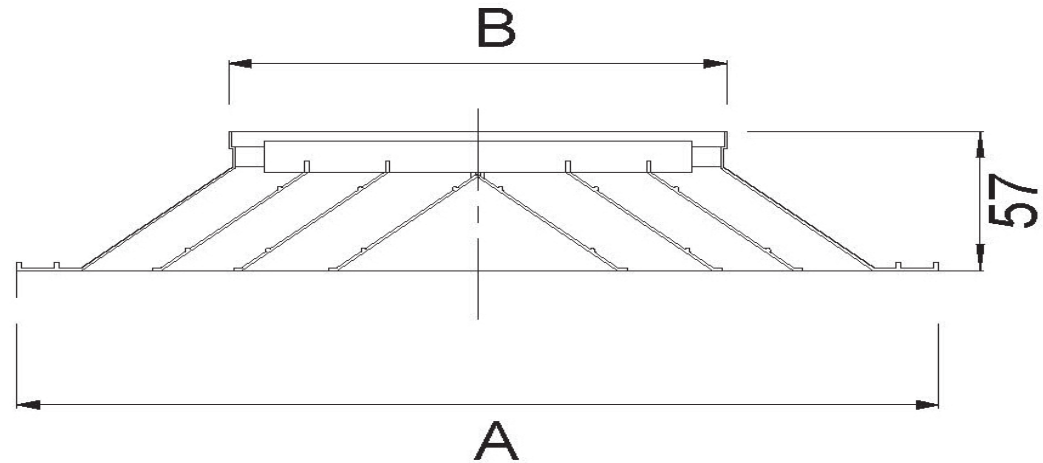
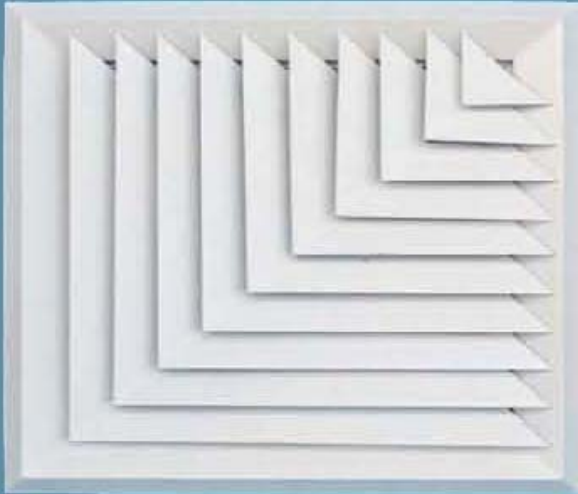
Size

Standard Size : Outer measurement (A) = Neck measurement (B) + 148mm

For further technical details on this item please consult our website www.westernairducts.com

Square Air Diffuser

Model: WAD-SAD-2-Way



Material – Aluminium

Paint Finish – All of our diffusers are finished in a very high quality DuPont paint system to an industry standard RAL 9010 20% gloss. More colour variations available to customer requirements upon requests.

Features

Our diffusers come with a fully removable central core for easy installation, access and cleaning facility. This central core is attached with a high tensile steel cable to ensure maximum safety.

All products can be used with our innovative air control damper system to regulate airflow. Please see page 36.

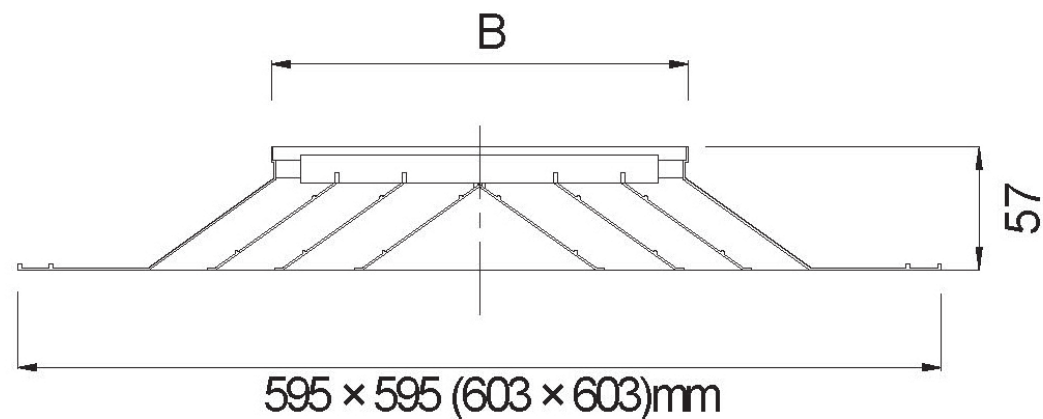
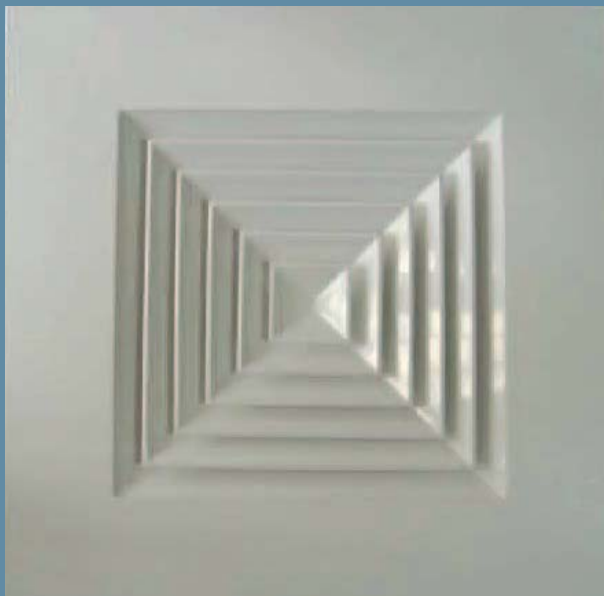
Size

Standard Size : Outer measurement (A) = Neck measurement (B) + 148mm

For further technical details on this item please consult our website www.westernairducts.com

Square Air Diffuser

Model: WAD-SADE



Material - Aluminum

Paint Finish – All of our diffusers are finished in a very high quality DuPont paint system to an industry standard RAL 9010 20% gloss. More colour variations available to customer requirements upon request.

Features

1. The outside frame and the inside vane of the cone is detachable, easy to install and adjust.
2. Damper can be installed so as to regulate airflow.

Size

Standard outer sizes: 595mm x595mm and 603mm x 603mm.

Other sizes can be manufactured to customers requirements.

Neck sizes manufactured to meet customers requirments.

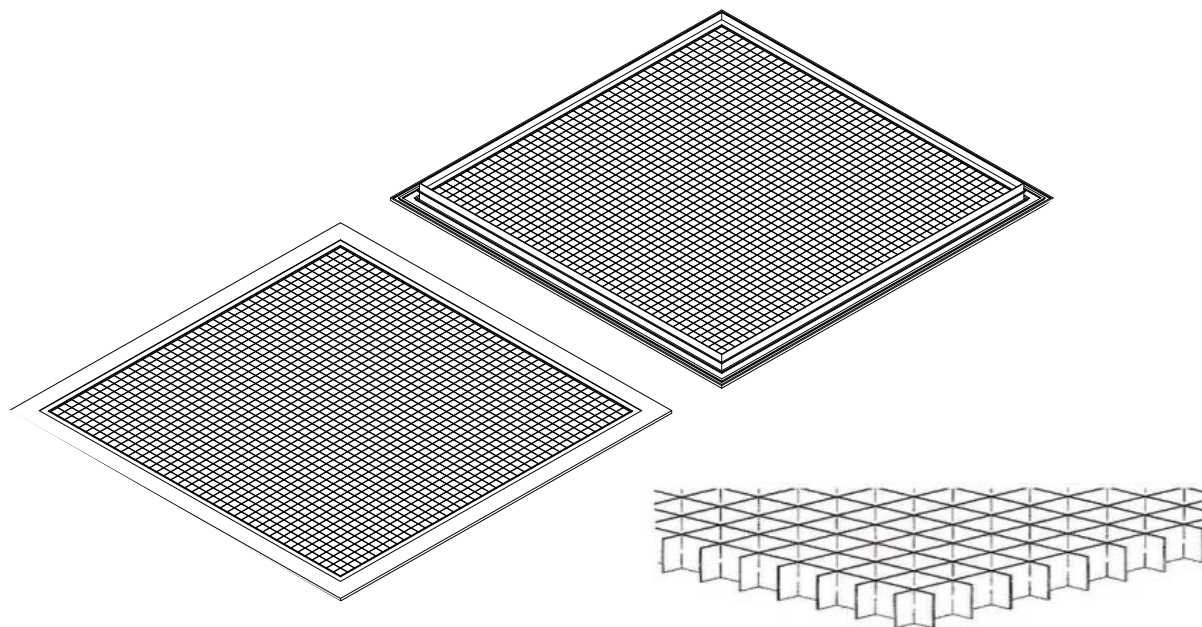
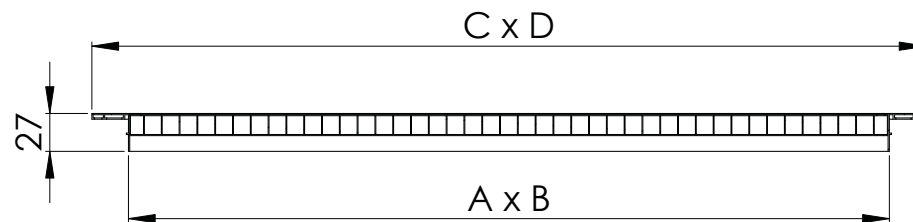
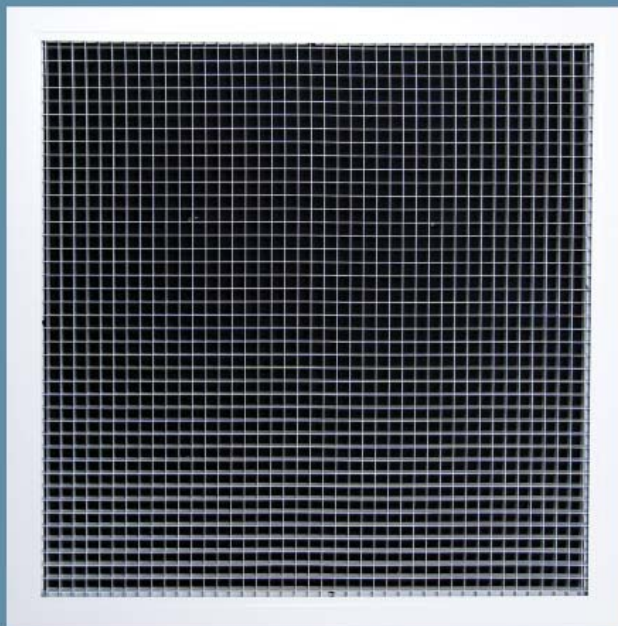
For further technical details on this item please consult our website www.westernairducts.com

Technical Parameters
Model: WAD-SADE

Size	Item	Unit	Air Velocity				
			2	3	4	5	6
240x240mm	Air Volume	Qm³/h	415	622	829	1244	1659
	Loss of Static Pressure	mmH ₂ O(Pd)	0.245	0.55	0.079	2.202	3.914
		δ(static)	2.013	2.013	2.013	2.013	2.013
		mmH ₂ O(Pg)	0.493	1.11	1.97	4.43	7.88
	Center Air Velocity Vx m/sec	Position S=0.5m	1.69	2.54	3.38	5.07	6.79
		S=1.0m	0.78	1.17	1.56	2.34	3.12
		S=2.0m	0.42	0.63	0.84	1.26	1.68
300x300mm	Air Volume	Qm³/h	648	972	1296	1914	2592
	Loss of Static Pressure	mmH ₂ O(Pd)	0.245	0.55	0.979	2.202	3.914
		δ(static)	1.412	1.412	1.412	1.412	1.412
		mmH ₂ O(Pg)	0.346	0.78	1.38	3.11	5.53
	Center Air Velocity Vx m/sec	Position S=0.5m	0.82	1.23	1.64	2.46	3.28
		S=1.0m	0.36	0.53	0.71	1.07	1.42
		S=2.0m	0.18	0.27	0.36	0.54	0.72
		S=3.0m	0.14	0.21	0.28	0.42	0.56
360x360mm	Air Volume	Qm³/h	933	1400	1866	2799	3700
	Loss of Static Pressure	mmH ₂ O(Pd)	0.245	0.55	0.979	2.202	3.914
		δ(static)	1.124	1.124	1.124	1.124	1.124
		mmH ₂ O(Pg)	0.275	1.62	1.1	2.48	4.4
	Center Air Velocity Vx m/sec	Position S=0.5m	0.66	1.966	1.328	1.992	2.656
		S=1.0m	0.32	0.48	0.64	0.96	1.28
		S=2.0m	0.18	0.27	0.36	0.54	0.72

Egg Crate Grille

Model: WAD-EG



Material – Aluminium

Paint Finish – All of our Egg crates are finished in a very high quality DuPont paint system to an industry standard RAL 9010 20% gloss. More colour variations available to customer requirements upon request

Features – As standard our egg crate is produced with a 13mm core but 20mm core is available on request. All products can be used with our innovative air control damper system to regulate airflow. Please see page 36.

Size

Standard Size: Outer measurement (CxD) = Neck Measurement (AxB) + 50mm

Non Standard – Outer size “C” = Neck size “A” + 50mm

Outer size “D” = Neck size “B” + 50mm

For further technical details on this item please consult our website www.westernairducts.com

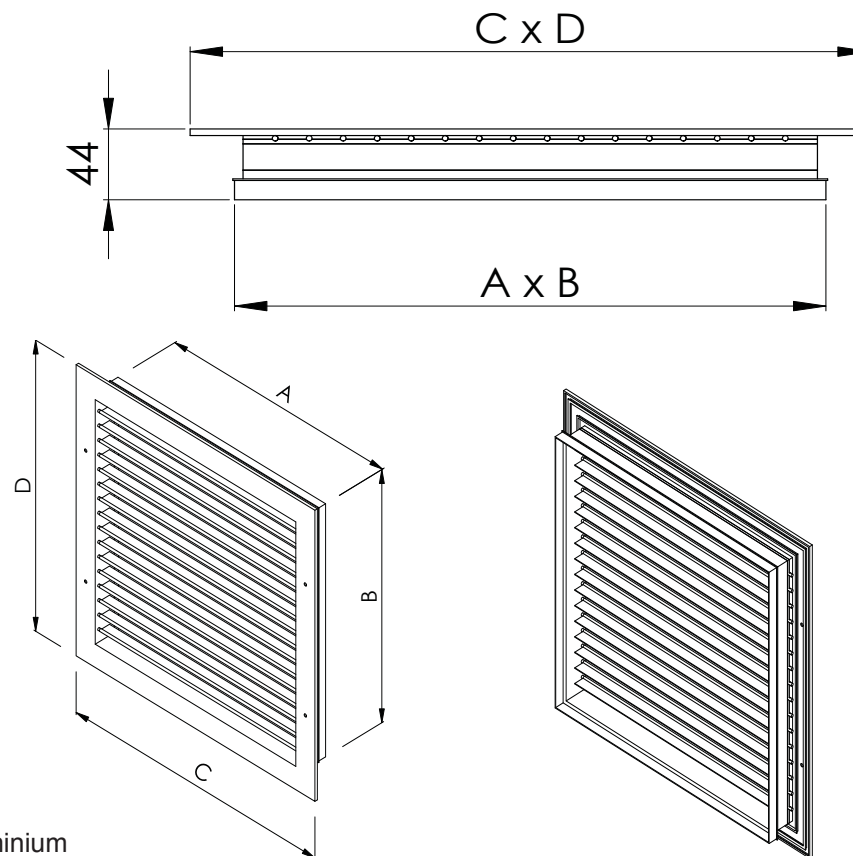
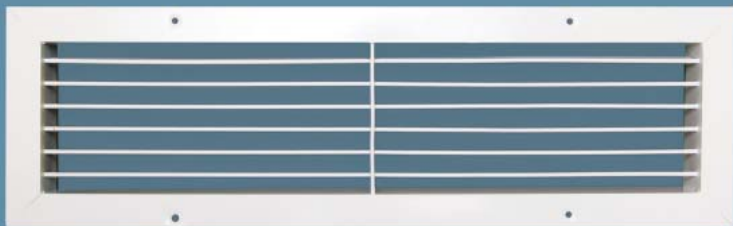
Technical Parameters

Model: WAD-EG

Area M²	Neck Size mm	Air Velocity M/S	2	3	4	5	6
		Dynamic Pressure mmAq	0.25	0.55	1	1.55	2.2
		Static Pressure mmAq	0.7	1.5	2.7	4.2	6.1
0.025	250x100	Air Volume CMH	180	270	360	450	540
	200x125	dB(A)	28	33	36	38	39
0.03	300x100	Air Volume CMH	216	324	432	540	648
	200x150	dB(A)	28	33	36	38	39
0.04	400x100	Air Volume CMH	288	432	576	720	864
	250x150	dB(A)	28	33	35	38	39
0.045	350x125	Air Volume CMH	324	486	648	810	972
	300x150	dB(A)	28	32	35	37	39
0.05	350x150	Air Volume CMH	360	540	720	900	1080
	250x200	dB(A)	27	31	34	36	38
0.06	600x100	Air Volume CMH	432	648	864	1080	1296
	400x150	dB(A)	27	31	34	36	38
0.075	600x125 350x200	Air Volume CMH	540	810	1080	1350	1620
	500x150 300x250	dB(A)	26	30	33	35	37
0.09	700 x 125 400x200	Air Volume CMH	648	972	1296	1620	1944
	550x150 300x250	dB(A)	26	30	33	35	37
0.1	750x125 450x200	Air Volume CMH	720	1080	1440	1800	2160
	650x150 400x250	dB(A)	26	30	32	35	36
0.12	900x125 450x250	Air Volume CMH	864	1296	1728	2160	2592
	750x150 350x300	dB(A)	25	29	32	35	36
0.128	850x150 500x250	Air Volume CMH	922	1382	1843	2304	2765
	600x200 400x300	dB(A)	25	29	32	34	36
0.135	1200x125 450x300	Air Volume CMH	972	1458	1944	2430	2916
	900x150 400x350	dB(A)	25	28	31	33	35
0.18	900x200 600x300	Air Volume CMH	1296	1944	2592	3240	3888
	750x250 450x400	dB(A)	23	27	30	32	34
0.27	750x350 600x450	Air Volume CMH	1944	2915	3888	4860	5832
	650x400 550x500	dB(A)	23	27	30	32	34
0.36	1200x300 750x450	Air Volume CMH	2592	3888	5184	6480	7776
	900x400 600x600	dB(A)	22	26	29	31	33

Single Deflection Grille

Model: WAD-SG



Material – Aluminium

Paint Finish – All of our Deflection Grilles are finished in a very high quality DuPont paint system to an industry standard RAL 9010 20% gloss. More colour variations available to customer requirements upon request

Anodised Finish – All of our Deflection Grilles are also available in an anodised aluminium finish

Features

Blades allow airflow to be adjusted in two directions. All products can be used with our innovative air control damper system to regulate airflow. Please see page 36.

Size

Standard Size: Outer measurement (CxD) = Neck Measurement (AxB) + 50mm

Non Standard – Outer size “C” = Neck size “A” + 50mm

Outer size “D” = Neck size “B” + 50mm

For further technical details on this item please consult our website www.westernairducts.com

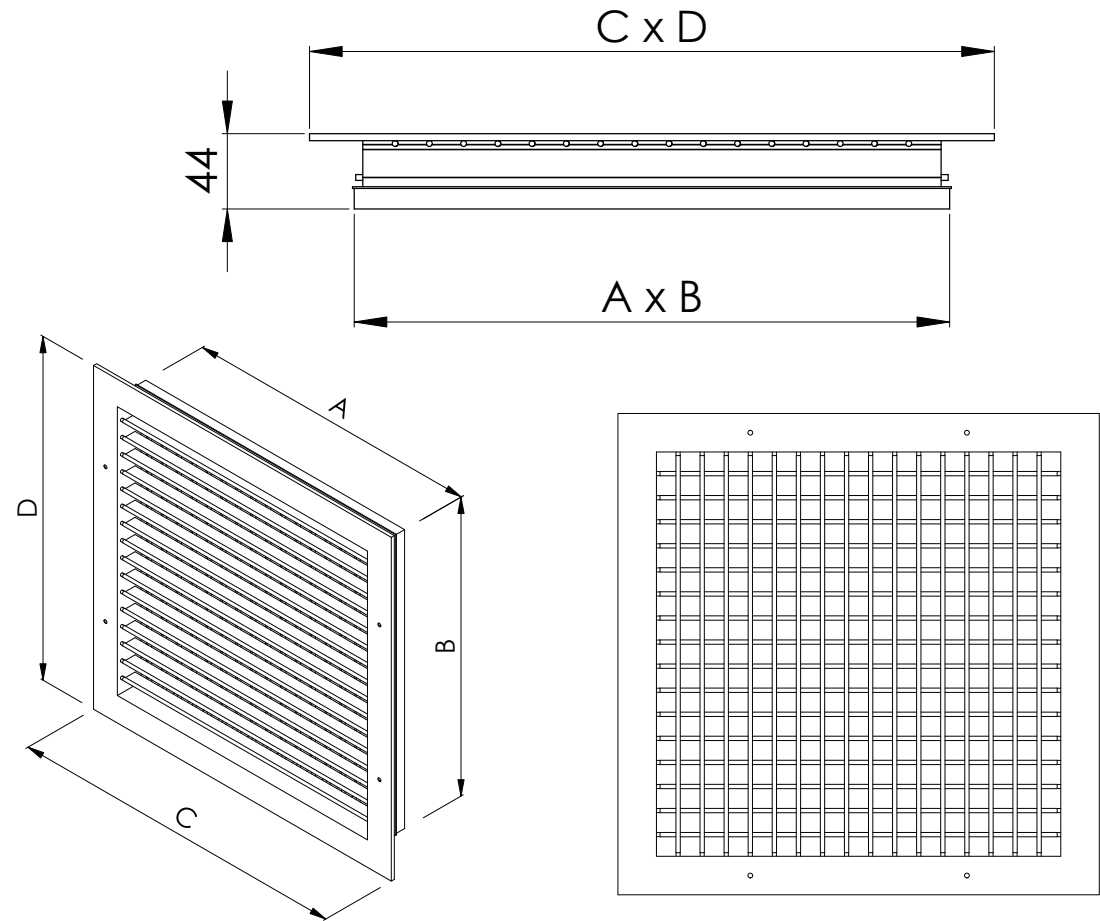
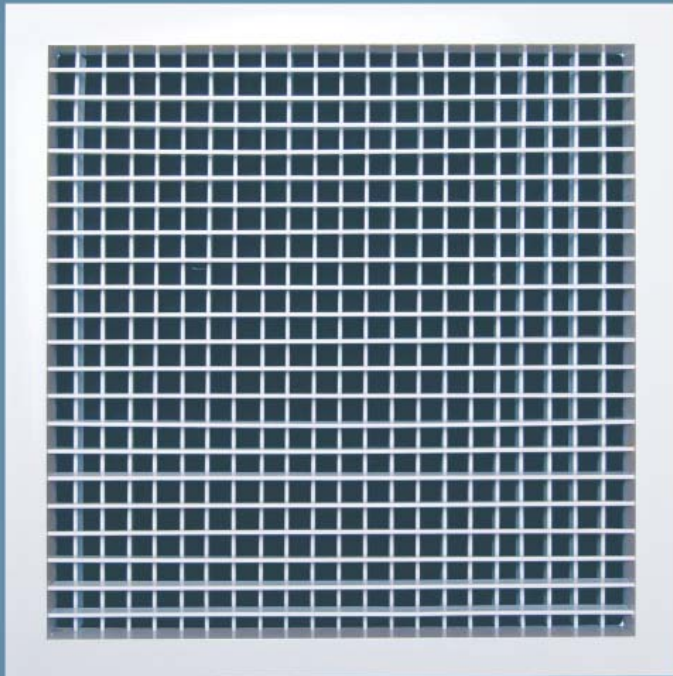
Technical Parameters

Model: WAD-SG

Area of Air Grille M ²			0.05			0.06			0.07		
VC M/s	Air Volume angle	Loss of whole pressure	Air Volume CMH	Left Air Rate 0.5 - 0.2 m/s	dB(A)	Air Volume	Left Air Rate 0.5 - 0.25 m/s	dB(A)	Air Volume	Left Air Rate 0.5 - 0.25 m/s	dB(A)
1	A	0.1	190	2.6 3.2	16	215	2.8 3.4	16	270	3.0 3.6	16 17 18 18
	B	0.1		2.2 2.9	16		2.4 2.9	17		2.6 3.1	
	C	0.2		1.8 2.2	17		2.0 2.4	17		2.1 2.5	
	D	0.2		1.5 1.8	17		1.6 1.9	18		1.7 2.1	
2	A	0.4	380	5.1 6.2	18	430	5.5 6.6	18	540	5.9 7.1	18 18 19 20
	B	0.6		4.3 5.3	18		4.7 5.6	19		5.0 6.1	
	C	0.7		3.6 4.3	19		3.9 4.6	20		4.1 5.0	
	D	0.8		2.8 3.4	19		3.1 3.7	20		3.3 3.9	
3	A	0.9	570	7.6 9.2	20	645	8.0 9.8	21	810	8.9 10.8	20 21 22 24
	B	1.2		6.5 7.9	22		6.8 8.4	22		7.6 9.2	
	C	1.5		5.3 6.4	24		5.6 6.9	23		6.2 7.6	
	D	1.9		4.2 5.1	27		4.4 5.4	26		5.0 6.0	
4	A	1.6	760	10.3 12.5	28	860	11.0	27	1080	12.0	25 27 30 33
	B	2.0		8.7 10.7	31		13.1			14.3	
	C	2.6		7.2 8.8	33		9.4			10.2	
	D	3.0		5.7 6.9	36		11.2			12.2	
5	A	2.4	950	13.0 15.8	38	1075	13.7	34	1350	14.9	33 35 37 39
	B	3.1		11.1 13.5	38		16.5			18.0	
	C	4.0		9.1 11.1	40		11.7			12.8 15.3	
	D	4.6		7.3 8.7	41		14.1			10.4	
							9.6	39		12.6	
							11.5			8.3	
							7.6			10.0	
							9.2				

Double Deflection Grille

Model: WAD-DG



Material – Aluminium

Paint Finish – All of our Deflection Grilles are finished in a very high quality DuPont paint system to an industry standard RAL 9010 20% gloss. More colour variations available to customer requirements upon request.

Anodised Finish – All of our Deflection Grilles are also available in an anodised aluminium finish

Features

Blades allow airflow to be adjusted in two directions.

Size

Standard - Outer Face = Neck size + 50mm

Non Standard – Outer size “C” = Neck size “A” + 50mm

Outer size “D” = Neck size “B” + 50mm

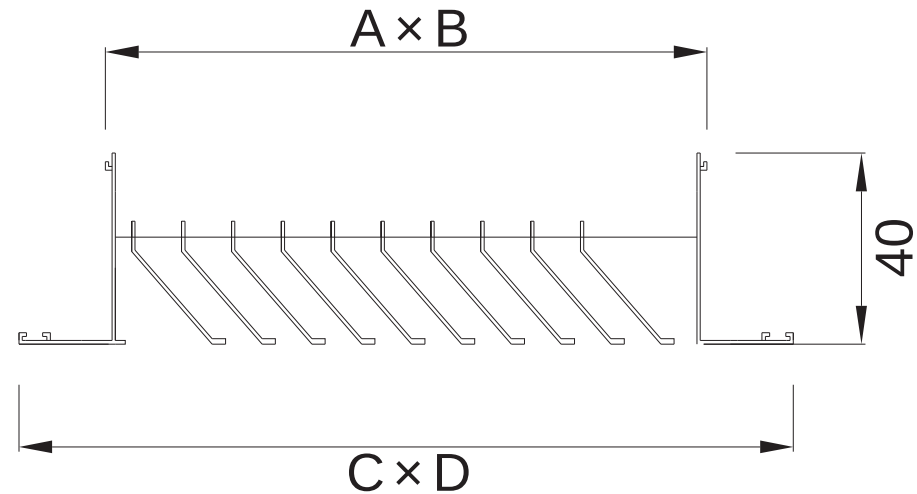
Technical Parameters

Model: WAD-DG

Area of Air Grille M ²			0.05			0.06			0.07		
VC M/s	Air Volume angle	Loss of whole pressure	Air Volume CMH	Left Air Rate 0.5 - 0.25 m/s	dB(A)	Air Volume	Left Air Rate 0.5 - 0.25 m/s	dB(A)	Air Volume	Left Air Rate 0.5 - 0.25 m/s	dB(A)
1	A	0.1	190	2.6 3.2	16	215	2.8 3.4	16	270	3.0 3.6	16 17 18 18
	B	0.1		2.2 2.9	16		2.4 2.9	17		2.6 3.1	
	C	0.2		1.8 2.2	17		2.0 2.4	17		2.1 2.5	
	D	0.2		1.5 1.8	17		1.6 1.9	18		1.7 2.1	
2	A	0.4	380	5.1 6.2	18	430	5.5 6.6	18	540	5.9 7.1	18 18 19 20
	B	0.6		4.3 5.3	18		4.7 5.6	19		5.0 6.1	
	C	0.7		3.6 4.3	19		3.9 4.6	20		4.1 5.0	
	D	0.8		2.8 3.4	19		3.1 3.7	20		3.3 3.9	
3	A	0.9	570	7.6 9.2	20	645	8.0 9.8	21	810	8.9 10.8	20 21 22 24
	B	1.2		6.5 7.9	22		6.8 8.4	22		7.6 9.2	
	C	1.5		5.3 6.4	24		5.6 6.9	23		6.2 7.6	
	D	1.9		4.2 5.1	27		4.4 5.4	26		5.0 6.0	
4	A	1.6	760	10.3 12.5	28	860	11.0	27 30 32 34	1080	12.0 14.3 10.2 12.2 8.4 10.0 6.7 8.0	25 27 30 33
	B	2.0		8.7 10.7	31		13.1				
	C	2.6		7.2 8.8	33		9.4				
	D	3.0		5.7 6.9	36		11.2				
5	A	2.4	950	13.0 15.8	38	1075	13.7 16.5 11.7 14.1 9.6 11.5 7.6 9.2	34 37 39 40	1350	14.9 18.0 12.8 15.3 10.4 12.6 8.3 10.0	33 35 37 39
	B	3.1		11.1 13.5	38						
	C	4.0		9.1 11.1	40						
	D	4.6		7.3 8.7	41						

Fixed Deflection Grille

Model: WAD-FGR



Material – Aluminium

Paint Finish – All of our Deflection Grilles are finished in a very high quality DuPont paint system to an industry standard RAL 9010 20% gloss. However other colours are available to customer requirements.

Anodised Finish – All of our Deflection Grilles are also available in an anodised aluminium finish

Features

Blades are angled at 45° within a solid frame

All products can be used with our innovative air control damper system to regulate airflow.
Please see page 36.

Size

Standard Size: Outer measurement (CxD) = Neck Measurement (AxB) +40mm

Non Standard – Outer size “C” = Neck size “A” + 40mm

Outer size “D” = Neck size “B” + 40mm

For further technical details on this item please consult our website www.westernairducts.com

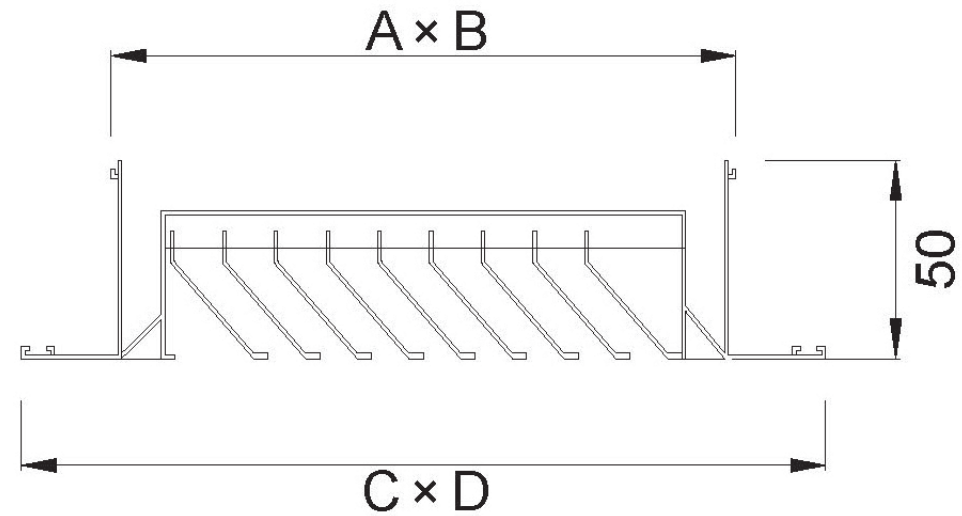
Technical Parameters

Model: WAD-FGR

Area M²	Neck Size mm	Air Velocity M/S	1.5	2	2.5	3	3.5
		Dynamic Pressure mmAq	0.16	0.25	0.4	0.55	0.75
		Static Pressure mmAq	3.4	5.9	9.3	13.3	18.1
0.025	250x100	Air Volume CMH	135	180	225	270	315
	200x125	dB(A)	29	38	46	50	56
0.03	300x100	Air Volume CMH	162	216	270	324	378
	200x150	dB(A)	30	40	47	51	57
0.04	400x100	Air Volume CMH	216	288	360	432	504
	250x150	dB(A)	31	41	48	53	58
0.045	350x125	Air Volume CMH	243	324	405	486	567
	300x150	dB(A)	32	42	49	54	58
0.05	350x150	Air Volume CMH	270	360	450	540	630
	250x200	dB(A)	32	42	49	54	58
0.06	600x100	Air Volume CMH	324	432	540	648	756
	400x150	dB(A)	33	43	50	54	59
0.075	600x125 350x200	Air Volume CMH	405	540	675	810	945
	500x150 300x250	dB(A)	34	43	50	54	59
0.09	700 x 125 400x200	Air Volume CMH	486	648	810	972	1134
	550x150 300x250	dB(A)	34	44	50	55	60
0.1	750x125 450x200	Air Volume CMH	540	720	900	1080	1260
	650x150 400x250	dB(A)	35	45	50	56	61
0.12	900x125 450x250	Air Volume CMH	648	864	1080	1296	1512
	750x150 350x300	dB(A)	36	45	51	57	62
0.128	850x150 500x250	Air Volume CMH	691	922	1152	1382	1612
	600x200 400x300	dB(A)	36	46	51	57	62
0.135	1200x125 450x300	Air Volume CMH	729	972	1215	1458	1700
	900x150 400x350	dB(A)	36	46	51	57	62
0.18	900x200 600x300	Air Volume CMH	972	1296	1620	1944	2268
	750x250 450x400	dB(A)	36	46	51	57	62
0.27	750x350 600x450	Air Volume CMH	1458	1944	2430	2915	3402
	650x400 550x500	dB(A)	36	46	51	57	62
0.36	1200x300 750x450	Air Volume CMH	1944	1592	3240	3888	4356
	900x400 600x600	dB(A)	36	46	52	58	63

Return Air Grille

Model: WAD-VO-FGR



Material – Aluminium

Paint Finish – All of our Grilles are finished in a very high quality DuPont paint system to an industry standard RAL 9010 20% gloss. However other colours are available to customer requirements.

Anodised Finish – Our Return air Grille is also available in an anodised aluminium finish.

Features

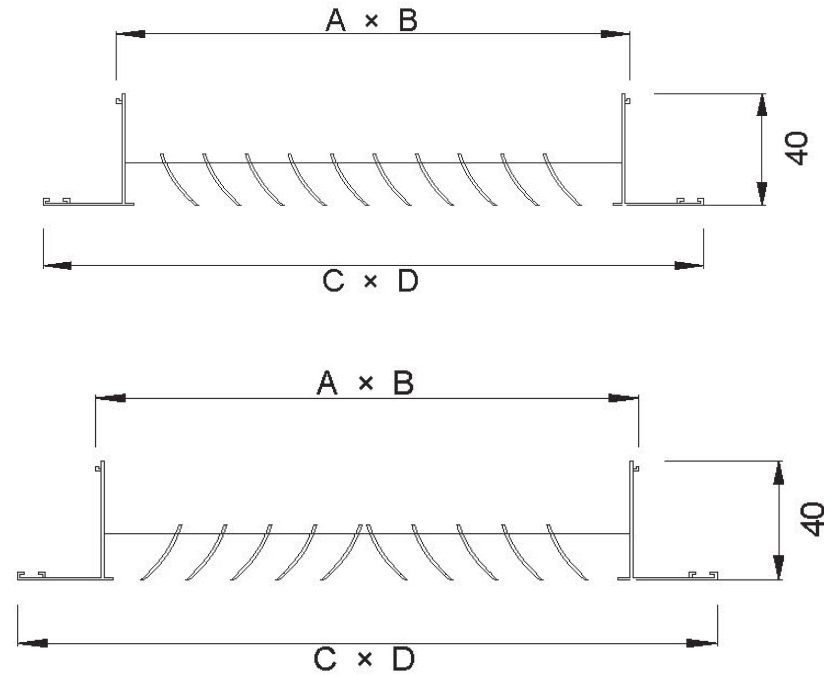
- Blades are angled at 45° within a solid frame
- Air Filters can be inserted within the grille
- Inside core can be opened in order to change and clean the filter easily.

All products can be used with our innovative air control damper system to regulate airflow.

Please see page 36

Fixed Deflection Grille

Model: WAD-FGS



Material – Aluminium

Paint Finish – All of our Deflection Grilles are finished in a very high quality Dupont paint system to an industry standard RAL 9010 20% gloss. However other colours are available to customer requirements.

Anodised Finish – All of our Deflection Grilles are also available in an anodised aluminium finish

Features

- Blades are fixed within a solid frame
- The angle of air supply can be deflected in 1 or 2 directions.

All products can be used with our innovative air control damper system to regulate airflow.
Please see page 36.

Size

Standard – Outer Face = Neck size + 40mm

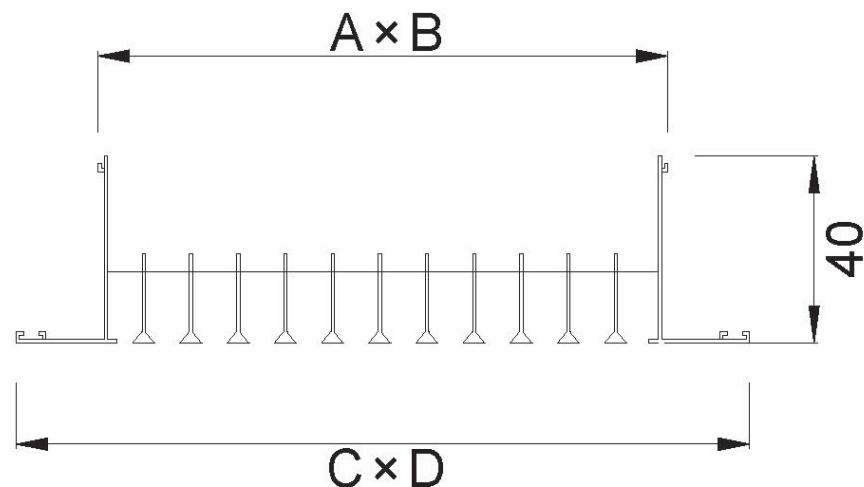
Non Standard – Outer size “C” = Neck size “A” + 40mm

Outer size “D” = Neck size “B” + 40mm

For further technical details on this item please consult our website www.westernairducts.com

Fixed Deflection Grille

Model: WAD-FGT



Material – Aluminium

Paint Finish – All of our Deflection Grilles are finished in a very high quality DuPont paint system to an industry standard RAL 9010 20% gloss. More colour variations available to customer requirements upon request

Anodised Finish – All of our Deflection Grilles are also available in an anodised aluminium finish

Features

- Fixed T bar blade system within solid frame
- Product can be used for supply or return air flow.
- Angle and direction of air flow is fixed

All products can be used with our innovative air control damper system to regulate airflow.
Please see page 36.

Size

Standard – Outer Face = Neck size + 40mm

Non Standard – Outer size “C” = Neck size “A” + 40mm

Outer size “D” = Neck size “B” + 40mm

For further technical details on this item please consult our website www.westernairducts.com

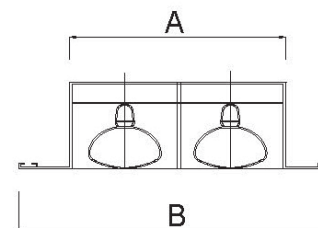
Strip Air Diffuser

Model: WAD-LD



Size: Length can be as customers requirements;
width is as follows

Size (strips)	Neck size (A)	Outer size (B)
1S	40mm	75mm
2S	78.5 mm	113.5mm
3S	117mm	152mm
4S	155.5mm	190.5mm



Technical Parameters -WAD- LD

Slot No.	Loss of whole pressure	Horizontal	0.1	0.4	1	1.6	2.5
		Vertical	0.05	0.3	0.6	1	1.5
1	Air Volume		55	105	165	215	275
	Extraction Distance	Horizontal	0.3-0.9	0.9-3.2	2.4-3.9	3.2-4.5	3.5-5.0
		Vertical	0.6	2.4	3.6	4.2	4.5
	dB(A)		<20	<20	<20	<20	23
2	Air Volume		105	215	325	435	545
	Extraction Distance	Horizontal	0.6-1.8	1.8-4.5	3.5-5.6	4.5-6.5	5.0-7.2
		Vertical	1.5	3.3	4.8	5.6	6.5
	dB(A)		<20	<20	<20	21	28
3	Air Volume		165	325	485	650	815
	Extraction Distance	Horizontal	0.9-3.0	3.0-5.6	4.6-6.8	5.6-8.0	6.2-9.0
		Vertical	2	3.8	6	7.2	8
	dB(A)		<20	<20	<20	24	31
4	Air Volume		215	435	650	870	1085
	Extraction Distance	Horizontal	0.9-3.3	3.3-6.5	5.0-8.0	6.5-9.2	7.2-9.2
		Vertical	2.4	4.5	6.8	8.4	9.2
	dB(A)		<20	<20	<20	36	33

Material – Aluminium

Paint Finish – All of our diffusers are finished in a very high quality Dupont paint system to an industry standard RAL 9010 20% gloss. More colour variations available to customer requirements upon request.

Anodised Finish – Our Strip Air Diffuser is also available in an anodised aluminium finish

Features

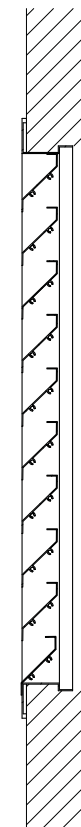
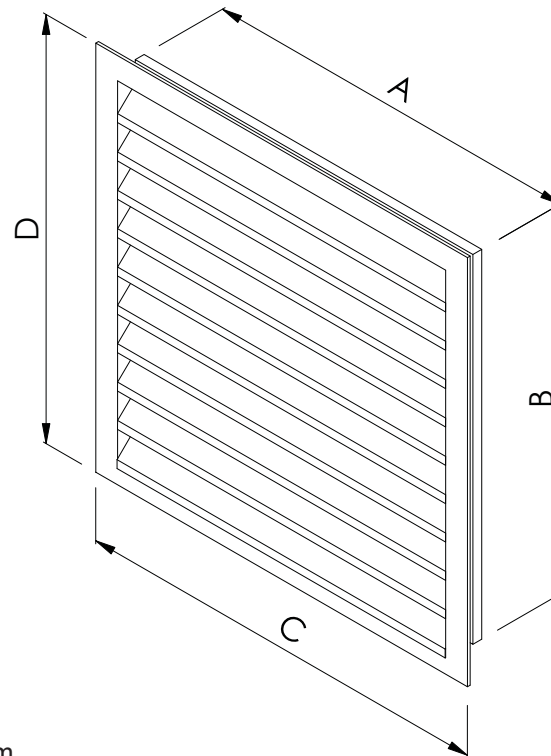
- Available in 1 – 4 strips
- Each seam has 2 adjustable vanes for maximum direction control and volume of airflow
- Max length is 2.5m and can be assembled in 2 or more parts

Product can be assembled with our air control damper system.

For further technical details on this item please consult our website www.westernairducts.com

External Weather Louver

Model: WAD-RF



Material – Aluminium

Anodised Finish – Our External weather louver is supplied in an anodised aluminium finish. However these can be supplied with a paint finish depending on customer requirements.

Features

- Mounted in exterior wall and used for exhaust or air intake.
- Excellent waterproofing thanks to specially designed blades.
- Item comes with insect mesh fitted as standard.
- Air filter can be inserted if required.

Size

Standard Size: Outer measurement (CxD) = Neck Measurement (AxB) + 50mm

Non Standard – Outer size “C” = Neck size “A” + 50mm

Outer size “D” = Neck size “B” + 50mm

For further technical details on this item please consult our website www.westernairducts.com

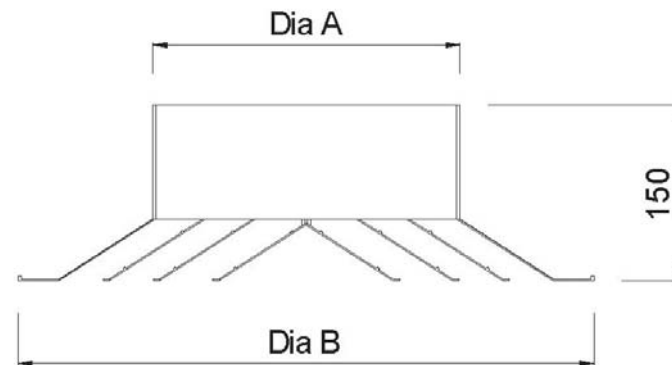
Technical Parameters

Model: WAD-RF

Area M²	Neck Size mm	Air Velocity M/S	2	3	4	5	6
		Dynamic Pressure mmAq	0.25	0.55	1	1.55	2.2
		Static Pressure mmAq	2.6	5.7	8.2	9.6	13.5
0.025	250x100	Air Volume CMH	180	270	360	450	540
	200x125	dB(A)	18	26	33	38	44
0.03	300x100	Air Volume CMH	216	324	432	540	648
	200x150	dB(A)	20	29	36	41	47
0.04	400x100	Air Volume CMH	288	432	576	720	864
	250x150	dB(A)	22	31	38	43	49
0.045	350x125	Air Volume CMH	324	486	648	810	972
	300x150	dB(A)	23	32	39	44	50
0.05	350x150	Air Volume CMH	360	540	720	900	1080
	250x200	dB(A)	24	33	40	45	51
0.06	600x100	Air Volume CMH	432	648	864	1080	1296
	400x150	dB(A)	25	34	41	46	52
0.075	600x125 350x200	Air Volume CMH	540	810	1080	1350	1620
	500x150 300x250	dB(A)	26	35	42	47	53
0.09	700 x 125 400x200	Air Volume CMH	648	972	1296	1620	1944
	550x150 300x250	dB(A)	27	36	43	48	54
0.1	750x125 450x200	Air Volume CMH	720	1080	1440	1800	2160
	650x150 400x250	dB(A)	28	37	44	49	55
0.12	900x125 450x250	Air Volume CMH	864	1296	1728	2160	2592
	750x150 350x300	dB(A)	29	38	45	50	56
0.128	850x150 500x250	Air Volume CMH	922	1382	1843	2304	2765
	600x200 400x300	dB(A)	29	39	46	51	57
0.135	1200x125 450x300	Air Volume CMH	972	1458	1944	2430	2916
	900x150 400x350	dB(A)	30	40	47	52	58
0.18	900x200 600x300	Air Volume CMH	1296	1944	2592	3240	3888
	750x250 450x400	dB(A)	31	41	48	53	59
0.27	750x350 600x450	Air Volume CMH	1944	2915	3888	4860	5832
	650x400 550x500	dB(A)	33	45	52	57	62
0.36	1200x300 750x450	Air Volume CMH	2592	3888	5184	6480	7776
	900x400 600x600	dB(A)	37	47	56	61	67

Round Air Diffuser

Model: WAD-RAD



Size: From 150mm to 400mm Diameter (Neck)

Neck size (Dia)	A mm	B mm
150mm	150	398
200mm	198	400
250mm	248	470
315mm	313	500
355mm	353	540
400mm	398	620

Material – Aluminium

Paint Finish – All of our diffusers are finished in a very high quality DuPont paint system to an industry standard RAL 9010 20% gloss. More colour variations available to customer requirements upon request.

Anodised Finish – Our Round Air Diffuser is also available in an anodised aluminium finish.

Features

- Inside core can be removed for ease of installation and to facilitate cleaning
- Volume control damper can be added to regulate airflow

Size

This product is available in sizes ranging from a 150mm diameter Neck to 400mm diameter Neck.

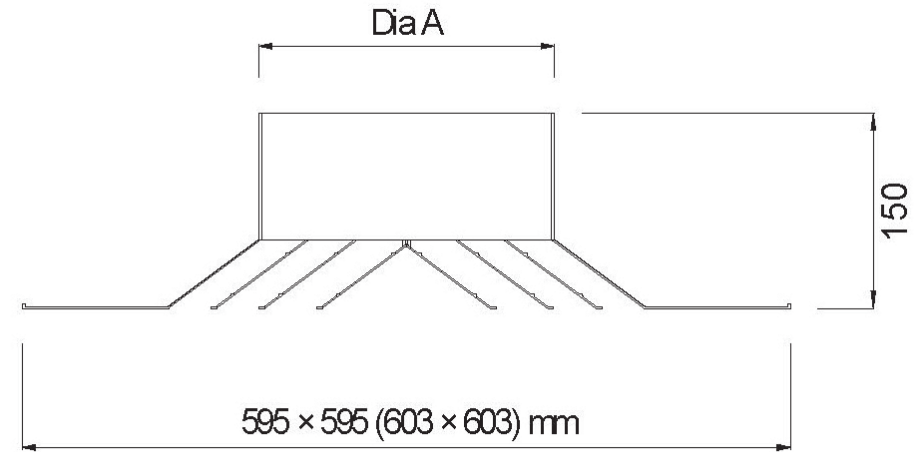
For further technical details on this item please consult our website www.westernairducts.com

Technical Parameters - Model: WAD-RAD

Size	Air Velocity	3	3.5	4	5	6	8
150mm	Air Volume m³h	195	230	260	325	390	520
	Loss of Static Pressure	0.5	0.7	0.9	1.4	2	3.5
	Extraction Radius	0.9 - 1.5	0.9 - 1.5	0.9 - 1.8	0.9 - 2.1	1.2 - 2.4	1.08 - 3.7
	dB(A)	<20	<20	21	28	34	41
200mm	Air Volume m³h	350	410	465	285	700	935
	Loss of Static Pressure	0.5	0.7	0.9	1.4	2	3.5
	Extraction Radius	0.9 - 2.0	1.2 - 2.1	1.2 - 2.4	1.5 - 3.1	1.5 - 3.7	2.1 - 4.6
	dB(A)	<20	<20	21	28	34	41
250mm	Air Volume m³h	550	640	730	915	1095	1460
	Loss of Static Pressure	0.5	0.7	0.9	1.4	2	3.5
	Extraction Radius	1.3 - 3.0	1.5 - 3.4	1.8 - 3.7	2.1 - 4.3	2.4 - 4.9	3.1 - 6.1
	dB(A)	<20	<20	21	28	34	41
300mm	Air Volume m³h	790	920	1055	1315	1580	2105
	Loss of Static Pressure	0.5	0.7	0.9	1.4	2	3.5
	Extraction Radius	1.7 - 3.9	2.1 - 4.3	2.1 - 4.6	2.4 - 5.2	2.7 - 5.8	3.7 - 7.0
	dB(A)	<20	<20	21	28	34	41

Round Air Diffuser

Model: WAD-SRAD



Material – Aluminium

Paint Finish – All of our diffusers are finished in a very high quality DuPont paint system to an industry standard RAL 9010 20% gloss. More colour variations available to customer requirements upon request

Features

- Internal core can be removed for ease of installation and to facilitate cleaning.

All products can be used with our innovative air control damper system to regulate airflow.
Please see page 36.

Size

Standard outer sizes are 595sq and 603sq however items can be produced to different sizes depending on customer requirements.

Neck sizes : 200dia / 250dia / 315dia

Non standard neck sizes can be produced according to customer requirements

For further technical details on this item please consult our website www.westernairducts.com

Technical Parameters - Model: WAD-SRAD

Size	Air Velocity	3	3.5	4	5	6	8
150mm	Air Volume m³h	195	230	260	325	390	520
	Loss of Static Pressure	0.5	0.7	0.9	1.4	2	3.5
	Extraction Radius	0.9 - 1.5	0.9 - 1.5	0.9 - 1.8	0.9 - 2.1	1.2 - 2.4	1.08 - 3.7
	dB(A)	<20	<20	21	28	34	41
200mm	Air Volume m³h	350	410	465	285	700	935
	Loss of Static Pressure	0.5	0.7	0.9	1.4	2	3.5
	Extraction Radius	0.9 - 2.0	1.2 - 2.1	1.2 - 2.4	1.5 - 3.1	1.5 - 3.7	2.1 - 4.6
	dB(A)	<20	<20	21	28	34	41
250mm	Air Volume m³h	550	640	730	915	1095	1460
	Loss of Static Pressure	0.5	0.7	0.9	1.4	2	3.5
	Extraction Radius	1.3 - 3.0	1.5 - 3.4	1.8 - 3.7	2.1 - 4.3	2.4 - 4.9	3.1 - 6.1
	dB(A)	<20	<20	21	28	34	41
300mm	Air Volume m³h	790	920	1055	1315	1580	2105
	Loss of Static Pressure	0.5	0.7	0.9	1.4	2	3.5
	Extraction Radius	1.7 - 3.9	2.1 - 4.3	2.1 - 4.6	2.4 - 5.2	2.7 - 5.8	3.7 - 7.0
	dB(A)	<20	<20	21	28	34	41

Variable Swirl Air Diffuser

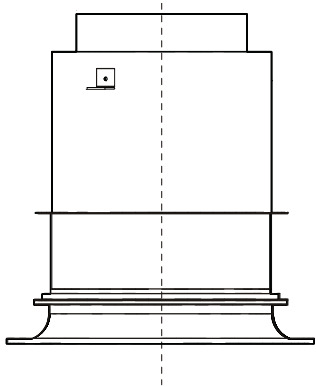
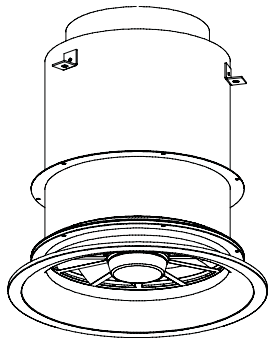
Model: WAD-VTD



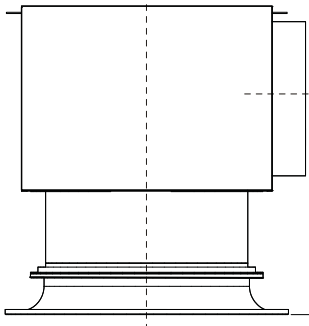
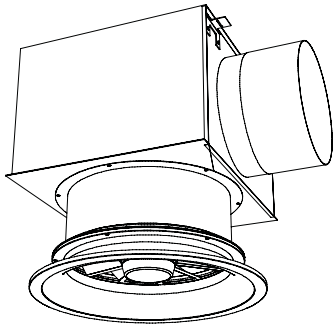
Size:

Neck Diameter (mm)
315
400
630
800
1000
1200

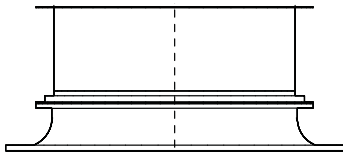
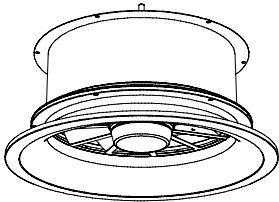
V Structure



H Structure



G Structure



Material – Aluminium

Paint Finish – All of our diffusers are finished in a very high quality DuPont paint system to an industry standard RAL 9010 20% gloss. More colour variations available to customer requirements upon request.

Technical Parameters - Model: WAD-VTD

Specs/ Item	Air Volume m³h	V Structure		H Structure		G Structure	
		Pressure Loss (Pa)	Noise (dB)	Pressure Loss (Pa)	Noise (dB)	Pressure Loss (Pa)	Noise (dB)
315mm	200	3	<30	6	<30	2	<30
	300	9		13		9	
	400	17	32	23	35	15	31
	500	27	38.5	37	42.5	24	37.8
	600	38	4.24	44	45.5	36	43.7
	700	46	48.8	49	52.1	42	47.3
	800	64	53.7	87	56.2	61	52.2
	900	108	57.8	112	≤60	76	56.2
	1000	115	≤60	132		95	59.3
	1250	161		187		143	≤60
	1500	225		267		204	
	400	5	<30	6	<30	2	<30
400mm	500	8		9		4	
	600	12		14	31.9	6	
	700	15	33.6	18	35.7	8	
	800	19	36.7	24	38	10	
	1000	32	44	36	47.1	17	31.6
	1200	45	50	52	52.6	24	37.5
	1600	81	57.7	93	58.6	43	43.7
	2000	132	≤60	148	≤60	68	52.1
	2500	189		223		109	59.1
	3000	>250		>250		156	≤60

Specs/ Item	Air Volume m³h	V Structure		H Structure		G Structure	
		Pressure Loss (Pa)	Noise (dB)	Pressure Loss (Pa)	Noise (dB)	Pressure Loss (Pa)	Noise (dB)
630mm	800	6	<30	7	<30	3	<30
	900	9		9		5	
	1000	9		12		5	
	1100	12		14		6	
	1200	14		32.8		8	
	1400	18	36.6	22	38.2	10	
	1600	25	42.2	29	43.9	14	
	2000	39	48.6	48	50.5	23	36.1
	2500	58	55	71	56.7	34	43.2
	3000	82	59.6	100	≤60	49	48.7
	4000	158	≤60	188		88	57.1
	5000	>250		221		138	≤60
800mm	1200	7	<30	9	<30	6	<30
	1500	11	33	15	34.3	9	
	2000	20	40.7	27	42.8	16	36
	2500	31	48.2	40	50	25	44
	3000	44	54.1	60	55.7	38	49.6
	4000	79	58.3	108	59.4	63	58.1
	5000	121	≤60	168	≤60	94	≤60
	6000	177		236		142	

Features

- Applicable for spaces with a height of more than 3.8m. Such as airports, waiting halls, stations, theatres, stadiums, industrial workshops and conference rooms.
- Adopts hydrokinetics principle by which the blade pushes the current by means of swirl with a certain initial velocity to achieve a larger throw distance
- The angle of the vane can be adjusted in accordance with the working conditions to provide rotating air in horizontal, diagonal and vertical directions
- Vane adjustment can be via the use of manual control, electric control and DDC remote control.

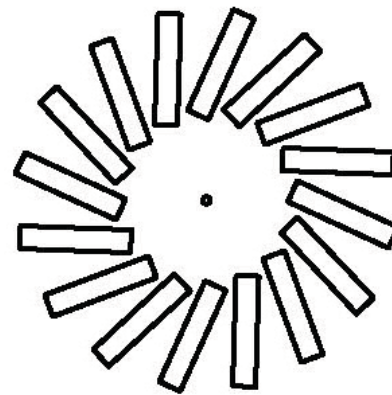
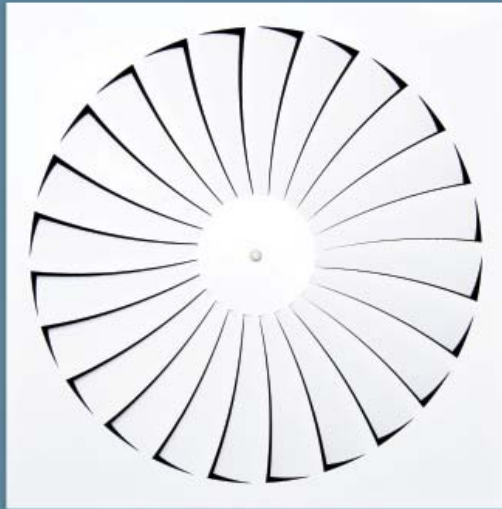
Size

315mm diameter – 1200mm diameter

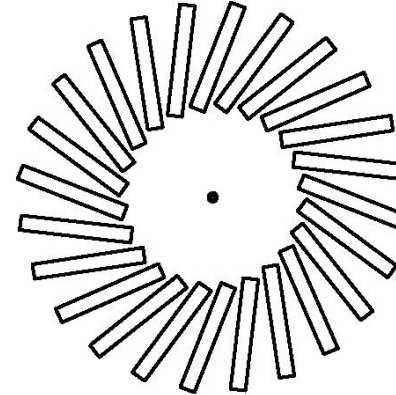
For further technical details on this item please consult our website www.westernairducts.com

Swirl Air Diffuser

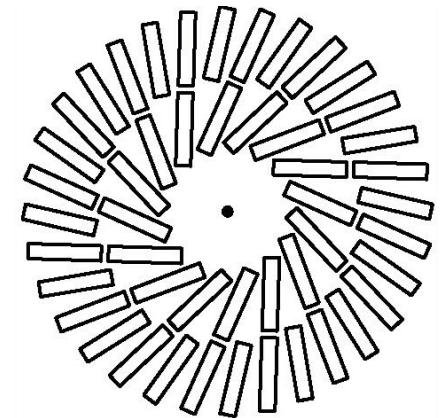
Model: WAD-SSD



16 Blade



24 Blade



48 Blade

Material – Aluminium

Paint Finish – All of our diffusers are finished in a very high quality DuPont paint system to an industry standard RAL 9010 20% gloss. More colour variations available to customer requirements upon request

Available with aluminium or plastic directional blades with a range of blade configurations.

Features

- Consists of a fixed radial aligned diversion blade for larger air volume and lower noise.
- Blows by means of horizontal swirl and obtains a high inductivity, which allows the air blown to rapidly mix with the air in the room to reduce the temperature.

Size

Standard outer sizes are 595sq or 603sq but non standard sizes can be produced to customer requirements.

For further technical details on this item please consult our website www.westernairducts.com

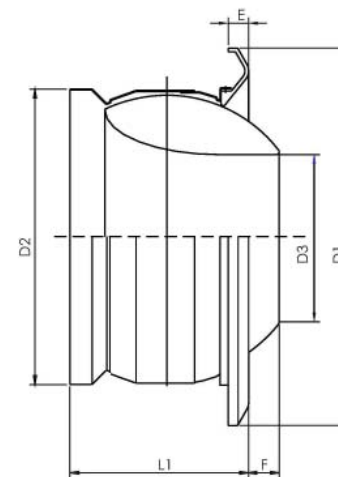
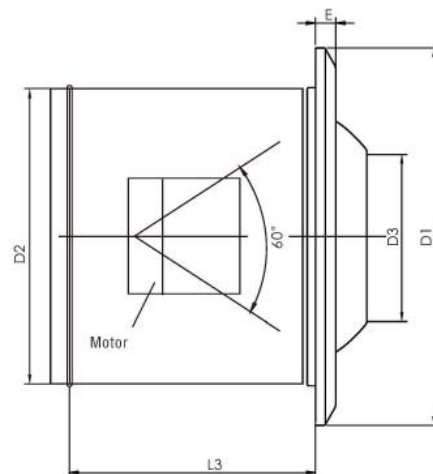
Technical Parameters - Model: WAD-SSD

Specs	Air Volume m³h	Pressure Loss (Pa)	Noise (dB)
300V	120	9	22
	150	14	28
	200	25	35
	250	38	43
	400	120	60
400V	200	8	<20
	250	13	25
	300	16	28
	400	30	37
	500	45	43
500V	260	8	21
	300	12	24
	400	20	33
	500	30	38
	700	55	47
600/625V	400	12	27
	500	18	33
	600	26	37
	800	45	47
	1000	65	55

Specs	Air Volume m³h	Pressure Loss (Pa)	Noise (dB)
300H	100	6.5	<20
	150	13	24
	250	35	37
	400	90	53
	500	140	65
400H	150	4.5	<20
	200	9	<20
	300	18	28
	400	36	38
	500	50	44
500H	180	4.5	<20
	250	8	<20
	350	15	27
	550	38	42
	700	60	47
600/625H	300	6	<20
	400	10	22
	600	20	32
	800	38	42
	1200	85	55)

Ball Spout

Model: WAD-BS



Size

Spec mm	D1mm	D2	D3	E	L3
100	162	98	50	10	80
125	185	123	64	10	90
160	216	158	82	11	110
200	273	198	108	16	140
250	318	248	136	16	170
315	400	313	174	23	220
400	483	398	230	24	260
500	596	498	286	27.5	340

Material – Aluminium

Paint Finish – Our Ball spout is finished in a very high quality DuPont paint system to an industry standard RAL 9010 20% gloss. More colour variations available to customer requirements upon request.

Features

- Long distance air supply with less noise.
- Outlets can be regulated by hand or electric devises to meet the air temperature.
- 360° movement

Size

100mm diameter to 500mm diameter, but please ask should you have any differing requirements

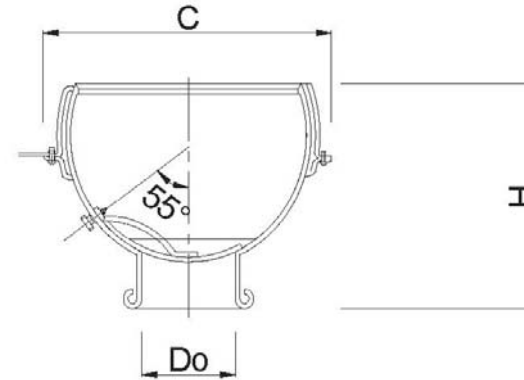
For further technical details on this item please consult our website www.westernairducts.com

Technical Parameters - Model: WAD-BS

Specs	Air Supply Distance									End Airflow Speed (ms)
	10m			20m			30m			
	Air Volume (M³/h)	Resistance loss (Pa)	Noise dB(A)	Air Volume (M³/h)	Resistance loss (Pa)	Noise dB(A)	Air Volume (M³/h)	Resistance loss (Pa)	Air Volume (M³/h)	
100	-	-	-	93.6	86	29	140	175	41	0.25
125	-	-	-	122	71	25	180	136	36	
160	82.8	11	<20	165	26	<20	250	98	35	
200	104	-	<20	220	29	<20	306	67	27	
250	133	-	<20	272	8.3	<20	382	34	22	
315	180	-	<20	350	11	<20	540	36	20	
400	234	-	<20	465	8.0	<20	702	13	<20	
500	310	-	29	601	-	<20	932	-	<20	
100	93.6	86	25	187	300	50	-	-	-	0.5
125	122	71	<20	245	265	46	-	-	-	
160	165	26	<20	330	113	44	497	200	55	
200	220	29	<20	435	123	38	655	218	50	
250	274	8.3	<20	548	63	34	825	112	45	
315	350	11	<20	690	57	28	1055	104	40	
400	464	8	<20	930	32	20	1394	69	33	
500	601	-	<20	1253	-	20	1872	26	26	
100	187	300	50	-	-	-	-	-	-	1.0
125	245	265	46	-	-	-	-	-	-	
160	330	113	44	-	-	-	-	-	-	
200	435	123	38	870	312	-	-	-	-	
250	548	63	34	1100	160	53	-	-	-	
315	700	57	28	1400	150	48	2106	243	-	
400	930	32	20	1860	123	42	2783	273	53	
500	1253	-	20	2419	38	36	3744	100	52	

Stationed Air Diffuser

Model: WAD-LS



Size

Type	C	Do	H	Duct Opening
1	115	38	59	84
2	140	50	77	110
3	175	65	101	146
4	200	75	116	165
5	255	108	156	216
6	325	140	206	280
7	365	165	231	318
8	360	190	264	318
9	420	220	295	366
10	535	266	369	486
11	535	310	369	486
12	725	370	450	669
13	890	450	640	821

Material – Aluminium with Static Plastic Spraying

Paint Finish – Finished in a very high quality DuPont paint system to an industry standard RAL 9010 20% gloss. More colour variations available to customer requirements upon request

Features

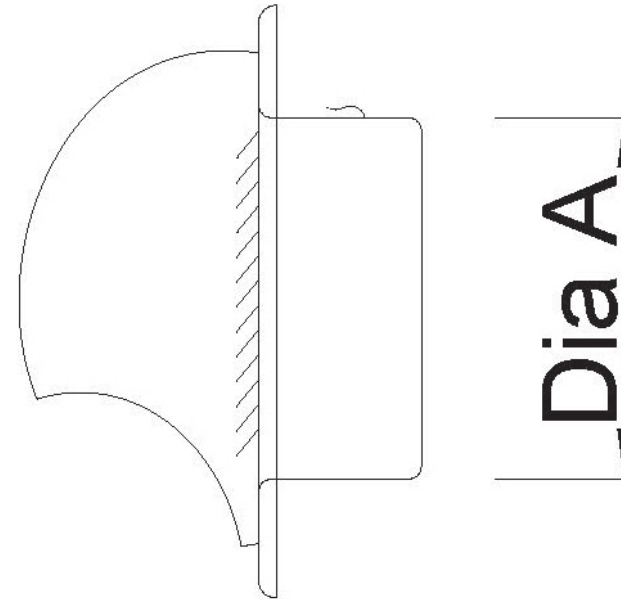
- Direction of air flow and air volume can be adjusted easily.
- Excellent appearance, moulding finished no welds.

Size - 115mm – 890mm Diameter

For further technical details on this item please consult our website www.westernairducts.com

Stainless Steel Air Intake

Model: WAD-OSSI



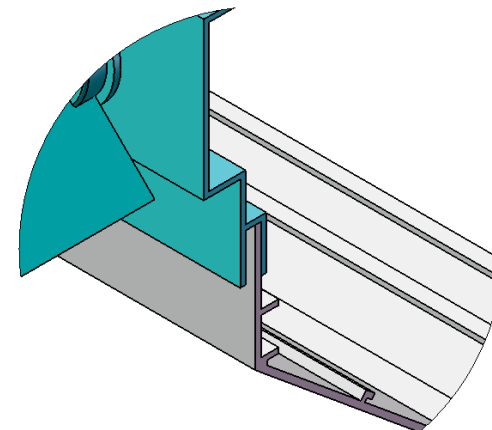
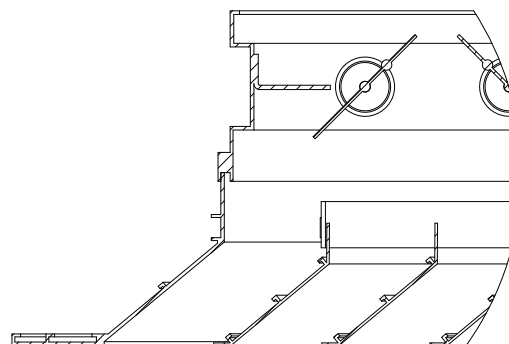
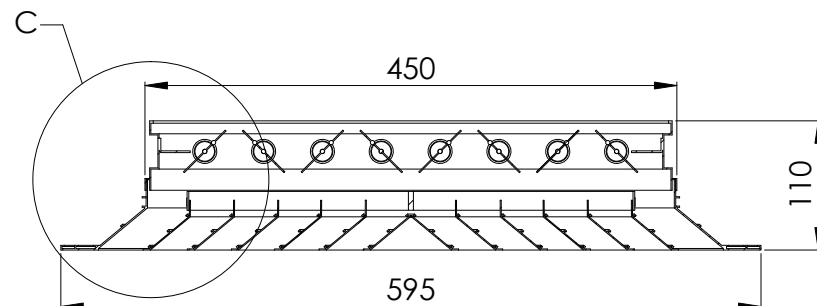
Material – SUS 304 Stainless Steel

Finish – Anodised Stainless Steel or Powder coated depending on customer requirements.

Features

- Elegant design suitable for architectural applications
- Long lasting
- Good weather protection
- Good insect and bird protection

Grille and Diffuser Damper WAD-SVCD



Material – Aluminium frame and blades with plastic cogs.

Finish

- Anodised Aluminium or
- High quality Black DuPont paint system

More colour variations available to customer requirements upon request

Features

- Innovative neck design ensures easy and strong connection with the neck of the corresponding fitting.
- Neck design allows any product in our range of the same size to be used with the damper. This is particularly useful when considering stock control.
- Innovative cog system allows for greater control over blade positioning. This ensures maximum control of air flow.

Size

Standard sizes range from 100mm square to 600mm square but Non standard sizes can be produced according to customer requirements.

For further technical details on this item please consult our website www.westernairducts.com



western airducts

group of companies

Western Air Ducts UK Ltd.
Environment House
Westfield Industrial Estate
Midsomer Norton
Bath BA3 4BS
United Kingdom

Tel: +44 (0)1761 416700
Fax: +44 (0)1761 415793

email: info@wad.co.uk
web: www.wad.co.uk

Western Air Ducts Lanka Ltd.
Mahahena Road
Siyabalape,
Sapugaskanda,
Sri Lanka

Tel: +94 (0) 11 2400987
Fax: +94 (0) 11 2400986

email: (Info) Info@wad.lk
web: www.wad.lk

Western Air Ducts Singapore Pte Ltd.
149 Ronchor Road,
#05-09 Fu Lu Shou Complex,
Singapore 188425.

Tel: +65 6875 4251
Fax: +65 6747 6337

email: (Sales) sales@wad.sg
email: (Info) info@wad.sg
web: <http://www.wad.sg>

Western Air Ducts Bangladesh (Pvt) Ltd.
Flat # 8-16 (8th Floor)
Road # 17, Banani,
Dhaka,
Bangladesh.

Tel: +88 (02) 882 5190
Fax: +88 (02) 882 6377

email: (Sales) sales@wad.com.bd
web: <http://www.wad.com.bd>

Western Air Ducts India (Pvt) Ltd.
15/27 Dhandayuthapani Nagar
1 st Street Kotturpuram
Chennai
600 085
Tamilnadu
India

Tel +91 44 2447 2770
Tel: +91 44 2447 1489
Fax: +91 44 4218 2495

email : (Info) Info@wad.in
web: <http://www.wad.in>

Western Airducts India (Pvt) Ltd.,
No.D-262 Ranjangaon MIDC,
Karegaon, Tal.Shirur,
Dist.Pune
412 209
India

Tel :+91 21 3823 2423

email : (Sales) Sales@wad.in
email : (Info) Info@wad.in
web: <http://www.wad.in>

Western Air Ducts Pakistan (Pvt) Ltd.
Suite # 208, Marine Faisal 10-A Block-6,
P.E.C.H.S. Shahrah-e-Faisal,
Karachi,
Pakistan.

Tel: +92 21 453 3148
Fax: +92 21 453 3153
Cell: +92 301 822 0458

email: (Info) info@wad.com.pk
web: <http://www.wad.com.pk>

