

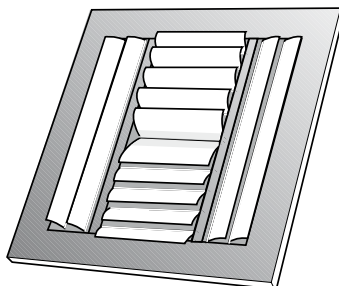
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EYELASH MULTI-DEFLECTION GRILLE

Series 5180



General

Multi-deflection grilles/diffusers are available in 1, 2, 3 or 4 way styles, providing a choice of 14 basic air pattern variations as illustrated. The curved (eye-lash) vanes are spaced at 20 mm centres.

Design

The curved deflection vanes are individually adjustable, without special tools, allowing maximum flexibility in the choice of air pattern. Ideal for rooms of unusual shape, ceiling height, ceiling slope, or where fixed type diffusers may not be suitable.

Frames

Multi-Deflection grilles have a flat frame that maintains a low unobtrusive profile against any ceiling.

Sizes (mm)

Available square or rectangular.

Minimum Nominal (hole) size : 150 mm x 150 mm

Maximum Nominal (hole) size : 900 mm x 900 mm

Standard size increments : 50 mm width or height

When ordering, specify nominal width followed

by nominal height :

e.g. 500 mm wide x 200 mm high

Finishes

Standard finish is gloss powder coat. Alternative colours and finishes are available.

Construction

Frame and vanes are of corrosion resistant aluminium construction.

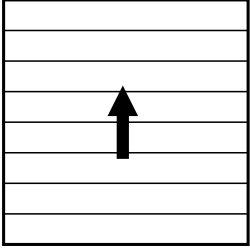
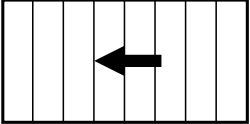
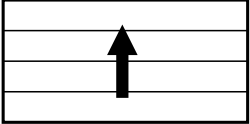
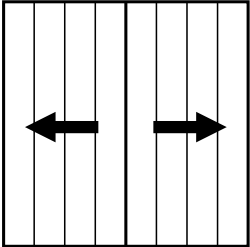
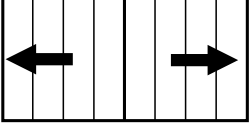
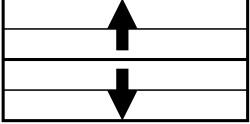
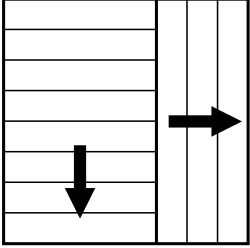
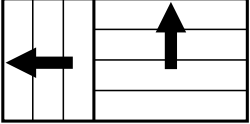
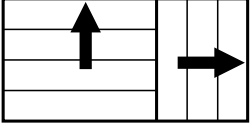
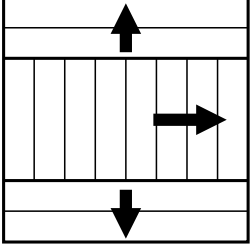
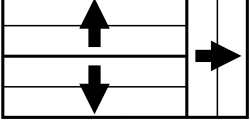
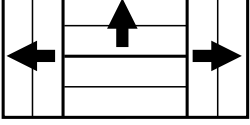
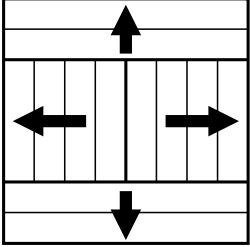
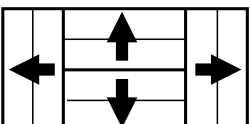
Accessories

Optional accessories include opposed blade dampers (OBD), square-to-round (SRA) ducting adaptors.

EYELASH MULTI- DEFLECTION GRILLE

Air Patterns

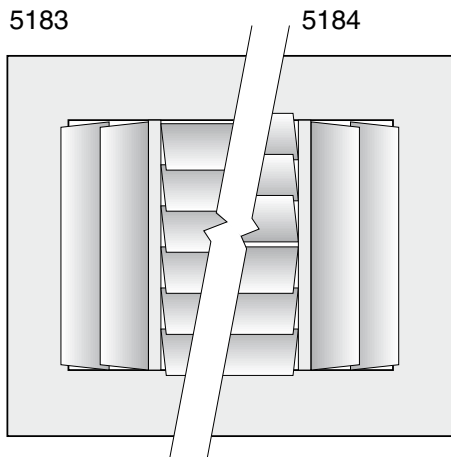
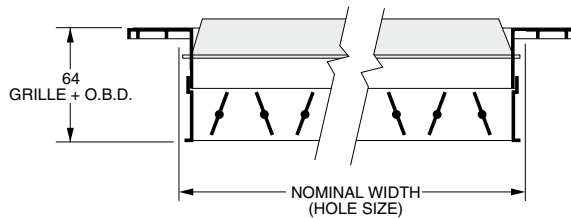
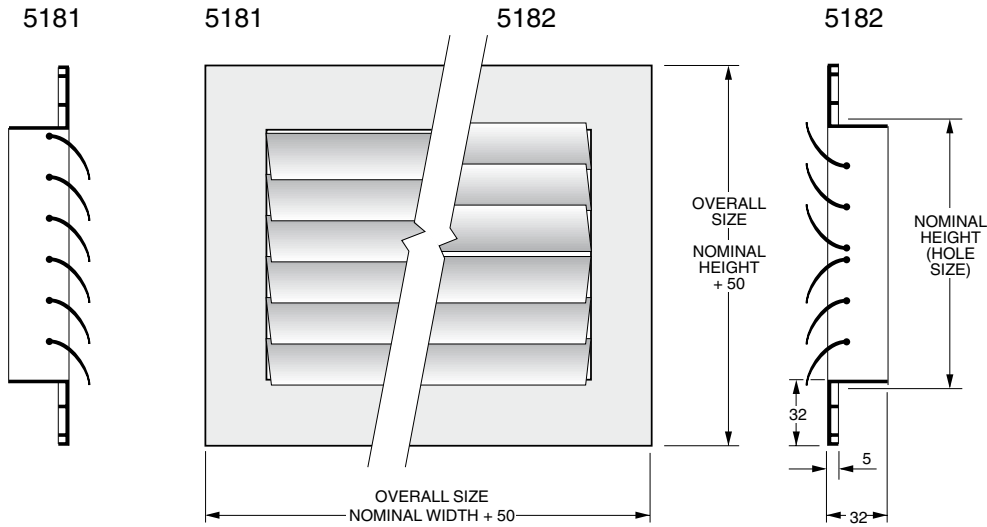
Note: Patterns are in plan view, i.e. viewed from neck side.

Order Codes	Square	Rectangular	
1-Way 5181 5181S 5181L	5181 	5181S 	5181L 
2-Way Opposite 5182 5182S 5182L	5182 	5182S 	5182L 
2-Way Corner 5182C 5182LL 5182LR	5182C 	5182LL 	5182LR 
3-Way 5183 5183S 5183L	5183 	5183S 	5183L 
4-Way 5184 5184R	5184 	5184R 	

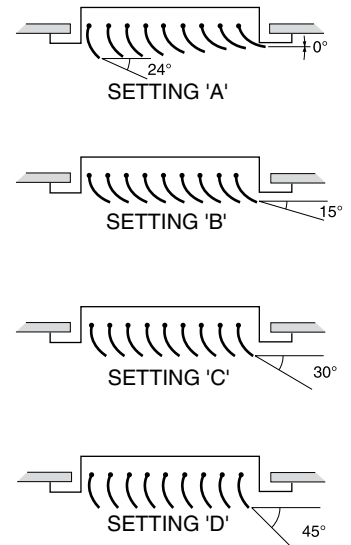
EYELASH MULTI-DEFLECTION GRILLE

Dimensions (mm)

Series 5180



4 Basic Blade Settings



Performance Data

Sound level N.C. values are based on a room attenuation of 10 dB (SWL re: 10⁻¹² watts).

Performance data is based on isothermal air, blade setting 'B', with OBD. For other blade settings and for units without OBD, apply the factors below to the tabulated data.

Blade Setting	With OBD			Without OBD		
	Throw	Static Pressure	N.C.	Throw	Static Pressure	N.C.
A	x 1.43	x 1.30	+ 2	x 1.43	x 1.20	+ 0
B	x 1.00	x 1.00	+ 0	x 1.00	x 0.86	- 3
C	x 0.79	x 0.72	- 4	x 0.79	x 0.61	- 4
D	x 0.64	x 0.52	- 4	x 0.64	x 0.33	- 6

Performance Data

EYELASH MULTI-DEFLECTION GRILLE



Series 5181

Nominal Size (mm) (W x H)	Neck Vel. m/s	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
	Stat. Press. Pa	10	10	28	40	55	73	90	110

200 x 100	Volume l/s	26	34	43	51	60	68	77	85
	Throw m	1.5 - 3.0	2.4 - 3.9	3.0 - 4.8	3.6 - 6.0	4.2 - 6.6	4.5 - 7.5	5.1 - 8.4	5.4 - 9.0
	N.C.	<20	23	30	34	39	42	46	49
150 x 150 250 x 100	Volume l/s	30	40	50	60	70	80	90	100
	Throw m	1.8 - 3.0	2.4 - 3.9	3.0 - 5.1	3.6 - 6.0	4.2 - 7.2	4.8 - 7.8	5.4 - 8.7	5.7 - 9.3
	N.C.	<20	24	30	35	40	43	47	50
200 x 150 300 x 100	Volume l/s	41	54	68	81	95	110	120	135
	Throw m	1.8 - 3.0	3.0 - 4.2	3.3 - 5.4	3.9 - 6.3	4.5 - 7.5	5.1 - 8.4	5.7 - 6.3	6.0 - 10
	N.C.	<20	25	31	37	41	44	47	51
200 x 200 250 x 150 400 x 100	Volume l/s	55	74	92	110	130	150	165	185
	Throw m	2.1 - 3.3	3.0 - 4.5	3.3 - 5.4	3.9 - 6.6	4.5 - 7.5	5.4 - 8.7	5.7 - 9.6	6.3 - 10.5
	N.C.	<20	25	32	37	42	45	48	52
300 x 500 450 x 100	Volume l/s	62	83	105	125	145	165	190	210
	Throw m	2.4 - 3.3	3.0 - 4.5	3.6 - 6.0	4.2 - 6.9	4.8 - 7.8	5.7 - 9.3	6.0 - 10	6.6 - 11
	N.C.	<20	26	32	37	42	46	49	52
250 x 200 350 x 150 500 x 100	Volume l/s	70	93	115	140	160	185	210	230
	Throw m	2.4 - 3.6	3.0 - 4.8	3.6 - 7.2	4.2 - 7.2	5.1 - 8.4	6.0 - 9.6	6.3 - 10	6.9 - 11
	N.C.	<20	27	33	38	43	47	49	53
250 x 250 300 x 200 400 x 150 600 x 100	Volume l/s	89	120	150	180	210	240	270	300
	Throw m	2.4 - 3.9	3.0 - 5.1	3.9 - 6.3	4.5 - 7.5	5.4 - 8.7	6.0 - 9.9	6.6 - 11	7.2 - 12
	N.C.	<20	27	33	39	44	47	51	54
350 x 200 450 x 150	Volume l/s	100	130	165	200	230	265	300	330
	Throw m	2.4 - 3.9	3.3 - 5.1	4.2 - 6.6	4.8 - 7.8	5.7 - 9.3	6.3 - 10	6.9 - 8.7	7.5 - 12
	N.C.	<20	27	34	39	44	48	52	55
300 x 250 400 x 200 500 x 150	Volume l/s	110	145	180	215	250	290	325	360
	Throw m	2.7 - 4.2	3.3 - 5.4	4.2 - 6.6	4.8 - 8.1	5.7 - 9.3	6.3 - 10	7.2 - 12	7.8 - 13
	N.C.	<20	28	34	39	44	48	52	55
300 x 300 350 x 250 450 x 200 600 x 150	Volume l/s	130	175	220	260	305	350	390	435
	Throw m	2.7 - 4.5	3.6 - 5.7	4.2 - 7.2	5.1 - 8.4	6.0 - 9.9	6.6 - 11	7.5 - 12	8.1 - 13
	N.C.	<20	28	35	41	45	49	52	57
350 x 300 400 x 250 500 x 200	Volume l/s	155	205	255	305	360	410	460	510
	Throw m	2.7 - 4.5	3.6 - 6.0	4.2 - 7.2	5.1 - 8.4	6.0 - 9.9	6.6 - 11	7.5 - 13	8.7 - 14
	N.C.	<21	29	35	41	45	49	53	57
350 x 350 500 x 250 600 x 200 750 x 150	Volume l/s	180	240	300	360	420	480	540	600
	Throw m	2.7 - 4.5	3.6 - 6.0	4.5 - 7.5	5.4 - 9.0	6.3 - 10	6.9 - 10	8.1 - 13	9.0 - 15
	N.C.	21	29	36	42	46	51	54	58
400 x 350 450 x 300 900 x 150	Volume l/s	205	275	340	410	480	550	615	685
	Throw m	3.0 - 4.8	3.9 - 6.3	4.8 - 7.8	5.4 - 9.0	6.3 - 11	7.2 - 12	8.4 - 14	9.3 - 16
	N.C.	22	30	37	42	47	51	55	59
400 x 400 500 x 300 600 x 250 750 x 200	Volume l/s	235	315	395	475	550	630	710	790
	Throw m	3.0 - 4.8	3.9 - 6.6	4.8 - 8.1	5.7 - 9.3	6.6 - 11	7.5 - 13	8.4 - 14	9.9 - 17
	N.C.	22	31	37	43	47	52	56	59

Performance Data

EYELASH MULTI-DEFLECTION GRILLE

Series 5181 (cont'd)



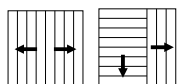
Nominal Size (mm) (W x H)	Neck Vel. m/s	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
	Stat. Press. Pa	10	10	28	40	55	73	90	110

450 x 400 600 x 300 750 x 250 900 x 200	Volume l/s	265	355	445	530	620	710	800	890
	Throw m	3.0 - 5.1	4.2 - 6.6	4.8 - 8.1	6.0 - 9.6	6.6 - 11	7.8 - 13	8.7 - 14	11 - 17
	N.C.	22	31	37	43	48	52	57	60
450 x 450 500 x 400 600 x 350	Volume l/s	300	400	505	605	705	805	905	1005
	Throw m	3.0 - 5.1	4.2 - 6.6	5.1 - 8.4	6.0 - 9.9	6.9 - 11	8.1 - 13	9.0 - 15	11 - 18
	N.C.	22	31	38	44	49	52	57	61
500 x 450 750 x 300 900 x 250	Volume l/s	335	450	560	670	785	895	1 005	-
	Throw m	3.3 - 5.4	4.2 - 6.9	5.1 - 8.7	6.3 - 10	7.2 - 12	8.4 - 14	9.6 - 16	-
	N.C.	22	32	39	45	49	53	58	-
500 x 500 600 x 400	Volume l/s	375	500	625	750	875	1 000	1 120	-
	Throw m	3.3 - 5.4	4.2 - 7.2	5.4 - 8.7	6.3 - 11	7.5 - 12	8.7 - 14	10 - 17	-
	N.C.	23	32	39	45	50	53	58	-
600 x 450 750 x 350 900 x 300	Volume l/s	405	540	675	810	945	1 080	1 215	-
	Throw m	3.6 - 5.7	4.5 - 7.5	5.4 - 9.0	6.6 - 11	7.5 - 13	8.7 - 14	10 - 17	-
	N.C.	24	32	40	45	50	54	59	-
600 x 500 750 x 400 900 x 350 1200 x 250	Volume l/s	450	600	750	900	1 050	1 200	1 350	-
	Throw m	3.6 - 5.7	4.5 - 7.5	5.4 - 9.0	6.6 - 11	7.8 - 13	9.0 - 15	11 - 18	-
	N.C.	24	33	40	45	51	45	60	-
600 x 600 750 x 500 900 x 400 1200 x 300	Volume l/s	545	725	905	1 085	1 270	1 450	-	-
	Throw m	3.6 - 6.0	4.8 - 7.8	6.0 - 9.6	6.9 - 11	8.4 - 14	9.9 - 16	-	-
	N.C.	25	33	41	46	51	57	-	-
900 x 450 1200 x 350	Volume l/s	610	815	1 020	1 220	1 425	1 625	-	-
	Throw m	3.9 - 6.3	4.8 - 8.1	6.0 - 9.9	7.2 - 12	7.8 - 14	10 - 17	-	-
	N.C.	25	34	42	47	52	58	-	-
750 x 600 900 x 500 1200 x 400	Volume l/s	680	910	1 135	1 360	1 590	1 815	-	-
	Throw m	3.9 - 6.3	5.1 - 8.4	6.0 - 10	7.5 - 12	9.0 - 15	11 - 18	-	-
	N.C.	26	34	42	47	52	59	-	-
750 x 750 900 x 600 1200 x 450	Volume l/s	855	1 140	1 425	1 710	1 995	2 280	-	-
	Throw m	4.2 - 6.6	5.4 - 8.7	6.6 - 10	7.8 - 13	9.6 - 16	12 - 20	-	-
	N.C.	26	35	43	48	53	59	-	-
1200 x 500	Volume l/s	910	1 215	1 515	1 820	2 125	2 425	-	-
	Throw m	4.2 - 6.6	5.4 - 8.7	6.6 - 10	8.1 - 13	9.9 - 16	12 - 20	-	-
	N.C.	26	35	43	48	54	59	-	-
900 x 750 1200 x 600	Volume l/s	1 030	1 370	1 715	2 060	2 400	2 745	-	-
	Throw m	4.2 - 6.9	5.4 - 9.0	6.9 - 11	8.4 - 14	10 - 17	12 - 20	-	-
	N.C.	27	36	44	49	55	60	-	-
900 x 900	Volume l/s	1 240	1 650	2 065	2 480	2 890	3 305	-	-
	Throw m	4.5 - 7.5	6.0 - 9.6	7.2 - 12	9.0 - 15	11 - 18	13 - 21	-	-
	N.C.	27	37	44	50	57	61	-	-

Note: Throw values are given for terminal velocities of 0.5 m/s and 0.25 m/s respectively.

Performance Data

EYELASH MULTI-DEFLECTION GRILLE



Series 5182

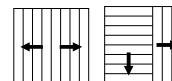
Nominal Size (mm) (W x H)	Neck Vel. m/s	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
	Stat. Press. Pa	10	10	28	40	55	73	90	110

200 x 100	Volume l/s	26	34	43	51	60	68	77	85
	Throw m	1.5 - 2.4	1.8 - 3.0	2.4 - 3.9	3.0 - 4.8	3.3 - 5.7	3.9 - 6.3	4.2 - 6.9	4.8 - 7.8
	N.C.	<20	23	30	34	39	42	46	49
150 x 150 250 x 100	Volume l/s	30	40	50	60	70	80	90	100
	Throw m	1.8 - 2.7	2.1 - 3.3	2.7 - 4.2	3.3 - 5.1	3.6 - 6.0	4.2 - 6.6	4.5 - 7.2	4.8 - 8.1
	N.C.	<20	24	30	35	40	43	47	50
200 x 150 300 x 100	Volume l/s	41	54	68	81	95	110	120	135
	Throw m	1.5 - 3.0	2.1 - 3.6	2.7 - 4.5	3.3 - 5.4	3.6 - 6.0	4.2 - 6.9	4.8 - 7.8	5.1 - 8.4
	N.C.	<20	25	31	37	41	44	47	51
200 x 200 250 x 150 400 x 100	Volume l/s	55	74	92	110	130	150	165	185
	Throw m	1.8 - 3.0	2.4 - 3.6	2.7 - 4.5	3.3 - 5.7	3.9 - 6.3	4.5 - 7.2	4.8 - 8.4	5.4 - 8.7
	N.C.	<20	25	32	37	42	45	48	52
300 x 500 450 x 100	Volume l/s	62	83	105	125	145	165	185	205
	Throw m	1.8 - 3.0	2.4 - 3.9	3.0 - 5.1	3.3 - 5.7	4.2 - 6.6	4.5 - 7.5	5.1 - 8.4	5.7 - 9.3
	N.C.	<20	26	32	37	42	46	49	52
250 x 200 350 x 150 500 x 100	Volume l/s	70	93	115	140	160	185	210	230
	Throw m	1.8 - 3.0	2.7 - 4.2	3.0 - 5.1	3.6 - 6.0	4.2 - 6.9	4.8 - 7.8	5.4 - 8.7	6.0 - 9.9
	N.C.	<20	27	33	38	43	47	49	53
250 x 250 300 x 200 400 x 150 600 x 100	Volume l/s	89	120	150	180	205	240	270	300
	Throw m	2.1 - 3.3	2.4 - 4.2	3.3 - 5.4	3.9 - 6.3	4.5 - 7.2	4.8 - 8.1	5.4 - 9.0	6.0 - 9.9
	N.C.	<20	27	33	39	44	47	51	54
350 x 200 450 x 150	Volume l/s	100	130	165	200	230	265	300	330
	Throw m	2.1 - 3.3	2.7 - 4.5	3.3 - 5.4	3.9 - 6.6	4.5 - 7.5	5.1 - 8.7	5.7 - 9.3	6.3 - 11
	N.C.	<20	27	34	39	44	48	52	55
300 x 250 400 x 200 500 x 150	Volume l/s	110	145	180	215	250	290	325	360
	Throw m	2.1 - 3.6	2.7 - 4.5	3.3 - 5.7	4.2 - 6.6	4.5 - 7.5	5.1 - 8.7	5.7 - 9.6	6.6 - 11
	N.C.	<20	28	34	39	44	48	52	55
300 x 300 350 x 250 450 x 200 600 x 150	Volume l/s	130	175	215	260	305	345	390	435
	Throw m	2.1 - 3.6	2.7 - 4.5	3.6 - 6.0	4.2 - 6.9	4.8 - 8.1	5.4 - 9.0	6.0 - 9.9	6.6 - 11
	N.C.	<20	28	35	41	45	49	52	57
350 x 300 400 x 250 500 x 200	Volume l/s	155	205	255	305	355	410	460	510
	Throw m	2.4 - 3.9	3.0 - 4.8	3.6 - 6.0	4.2 - 7.2	5.1 - 8.4	5.7 - 9.3	6.3 - 11	6.9 - 11
	N.C.	<21	29	35	41	45	49	53	57
350 x 350 500 x 250 600 x 200 750 x 150	Volume l/s	180	240	300	360	420	480	540	600
	Throw m	2.4 - 3.9	3.3 - 5.4	3.9 - 6.3	4.5 - 7.5	5.1 - 8.7	6.0 - 9.6	6.6 - 11	7.5 - 12
	N.C.	21	29	36	42	46	51	54	58
400 x 350 450 x 300 900 x 150	Volume l/s	205	275	340	410	480	550	615	685
	Throw m	2.4 - 3.9	3.3 - 5.4	3.9 - 6.6	4.5 - 7.8	5.4 - 8.7	6.0 - 10	6.6 - 11	7.5 - 13
	N.C.	22	30	37	42	47	51	55	59
400 x 400 500 x 300 600 x 250 750 x 200	Volume l/s	235	315	395	475	550	630	710	790
	Throw m	2.7 - 4.2	3.3 - 5.4	4.2 - 6.6	4.8 - 8.1	5.4 - 9.0	6.3 - 11	7.2 - 12	7.8 - 13
	N.C.	22	31	37	43	47	52	56	59

Performance Data

EYELASH MULTI-DEFLECTION GRILLE

Series 5182 (cont'd)



Nominal Size (mm) (W x H)	Neck Vel. m/s	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
	Stat. Press. Pa	10	10	28	40	55	73	90	110

450 x 400 600 x 300 750 x 250 900 x 200	Volume l/s	265	355	445	530	620	710	800	890
	Throw m	2.7 - 4.5	3.3 - 5.7	4.2 - 6.9	5.1 - 8.1	5.7 - 9.3	6.6 - 11	7.2 - 12	8.1 - 13
	N.C.	22	31	37	43	48	52	57	60
450 x 450 500 x 400 600 x 350	Volume l/s	300	400	505	605	705	805	905	1 005
	Throw m	2.7 - 4.5	3.6 - 5.7	4.2 - 7.2	5.1 - 8.4	5.7 - 9.6	6.6 - 11	7.5 - 13	8.4 - 14
	N.C.	22	31	38	44	49	52	57	61
500 x 450 750 x 300 900 x 250	Volume l/s	335	450	560	670	785	895	1 005	-
	Throw m	2.7 - 4.5	3.6 - 6.0	4.5 - 7.5	5.1 - 8.7	6.0 - 9.9	6.6 - 11	7.8 - 13	-
	N.C.	22	32	39	45	49	53	58	-
500 x 500 600 x 400	Volume l/s	375	500	625	750	870	1 000	1 120	-
	Throw m	2.7 - 4.5	3.6 - 6.0	4.5 - 7.5	5.4 - 8.7	6.3 - 10	7.2 - 12	8.1 - 13	-
	N.C.	23	32	39	45	50	53	58	-
600 x 450 750 x 350 900 x 300	Volume l/s	405	540	675	810	945	1 080	1 215	-
	Throw m	3.0 - 4.8	3.6 - 6.0	4.5 - 7.5	5.4 - 9.0	6.3 - 11	7.5 - 12	8.4 - 14	-
	N.C.	24	32	40	45	50	54	59	-
600 x 500 750 x 400 900 x 350 1200 x 250	Volume l/s	450	600	750	900	1 050	1 200	1 350	-
	Throw m	3.0 - 4.8	3.9 - 6.3	4.8 - 7.8	5.4 - 9.0	6.6 - 11	7.5 - 12	8.4 - 14	-
	N.C.	24	33	40	45	50	55	60	-
600 x 600 750 x 500 900 x 400 1200 x 300	Volume l/s	545	725	905	1 090	1 270	1 450	-	-
	Throw m	3.3 - 5.1	4.2 - 6.6	5.1 - 8.1	6.0 - 9.6	6.6 - 11	7.8 - 13	-	-
	N.C.	25	33	41	46	51	57	-	-
900 x 450 1200 x 350	Volume l/s	610	815	1 020	1 220	1 425	1 630	-	-
	Throw m	3.3 - 5.1	4.2 - 6.6	5.1 - 8.4	6.0 - 9.9	7.2 - 12	8.1 - 14	-	-
	N.C.	25	34	42	47	52	58	-	-
750 x 600 900 x 500 1200 x 400	Volume l/s	680	910	1 135	1 360	1 590	1 815	-	-
	Throw m	3.3 - 5.4	4.2 - 6.9	5.1 - 8.7	6.0 - 10	7.2 - 12	8.4 - 14	-	-
	N.C.	26	34	42	47	52	59	-	-
750 x 750 900 x 600 1200 x 450	Volume l/s	855	1 140	1 425	1 710	1 995	2 280	-	-
	Throw m	3.6 - 5.7	4.5 - 7.5	5.4 - 9.0	6.6 - 11	7.5 - 13	9.0 - 15	-	-
	N.C.	26	35	43	48	53	59	-	-
1200 x 500	Volume l/s	910	1 215	1 515	1 820	2 125	2 430	-	-
	Throw m	3.6 - 6.0	4.5 - 7.5	5.7 - 9.3	6.6 - 10	7.8 - 13	9.0 - 15	-	-
	N.C.	26	35	43	48	54	59	-	-
900 x 750 1200 x 600	Volume l/s	1 030	1 370	1 715	2 060	2 400	2 745	-	-
	Throw m	3.6 - 6.0	4.8 - 7.8	5.7 - 9.3	6.9 - 11	8.1 - 14	9.6 - 16	-	-
	N.C.	27	36	44	49	55	60	-	-
900 x 900	Volume l/s	1 240	1 650	2 065	2 480	2 890	3 305	-	-
	Throw m	3.9 - 6.3	4.8 - 8.1	6.0 - 9.9	7.2 - 12	8.7 - 14	10 - 17	-	-
	N.C.	27	37	44	50	57	61	-	-

Note: Throw values are given for terminal velocities of 0.5 m/s and 0.25 m/s respectively.

Performance Data

EYELASH MULTI-DEFLECTION GRILLE



Series 5183

Nominal Size (mm) (W x H)	Neck Vel. m/s	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
	Stat. Press. Pa	10	10	28	40	55	73	90	110

200 x 100	Volume l/s	26	34	43	51	60	68	77	85
	Throw m	1.5 - 2.4	1.8 - 3.0	2.1 - 3.6	2.7 - 4.5	3.0 - 5.1	3.3 - 5.7	3.9 - 6.3	4.2 - 6.9
	N.C.	<20	23	30	34	39	42	46	49
150 x 150 250 x 100	Volume l/s	30	40	50	60	70	80	90	100
	Throw m	1.5 - 2.4	1.8 - 3.0	2.1 - 3.6	3.0 - 4.5	3.3 - 5.1	3.6 - 6.0	4.2 - 6.6	4.5 - 7.5
	N.C.	<20	24	30	35	40	43	47	50
200 x 150 300 x 100	Volume l/s	41	54	68	81	95	110	120	135
	Throw m	1.5 - 2.4	1.8 - 3.0	2.4 - 3.9	3.0 - 4.8	3.3 - 5.4	3.9 - 6.3	4.2 - 6.9	4.8 - 7.8
	N.C.	<20	25	31	37	41	44	47	51
200 x 200 250 x 150 400 x 100	Volume l/s	55	74	92	110	130	150	165	185
	Throw m	1.5 - 2.7	2.1 - 3.3	2.7 - 4.2	3.0 - 5.1	3.3 - 5.7	3.9 - 6.6	4.5 - 7.5	4.8 - 8.1
	N.C.	<20	25	32	37	42	45	48	52
300 x 500 450 x 100	Volume l/s	63	83	105	125	145	165	185	210
	Throw m	1.8 - 3.0	2.1 - 3.6	2.7 - 4.5	3.0 - 5.1	3.6 - 6.0	4.2 - 6.6	4.5 - 7.5	5.1 - 8.4
	N.C.	<20	26	32	37	42	46	49	52
250 x 200 350 x 150 500 x 100	Volume l/s	70	93	115	140	160	185	210	230
	Throw m	1.8 - 3.0	2.1 - 3.6	2.7 - 4.5	3.3 - 5.4	3.9 - 6.3	4.2 - 7.2	4.8 - 7.8	5.4 - 8.7
	N.C.	<20	27	33	38	43	47	49	53
250 x 250 300 x 200 400 x 150 600 x 100	Volume l/s	89	120	150	180	210	235	265	300
	Throw m	1.8 - 3.0	2.4 - 3.9	3.0 - 4.8	3.3 - 5.7	3.9 - 6.6	4.5 - 7.5	4.8 - 8.1	5.4 - 9.0
	N.C.	<20	27	33	39	44	47	51	54
350 x 200 450 x 150	Volume l/s	100	130	165	200	230	265	300	330
	Throw m	1.8 - 3.0	2.4 - 3.9	3.0 - 5.1	3.6 - 6.0	4.2 - 6.6	4.5 - 7.5	5.1 - 8.7	5.7 - 9.3
	N.C.	<20	27	34	39	44	48	52	55
300 x 250 400 x 200 500 x 150	Volume l/s	110	145	180	215	250	285	325	360
	Throw m	1.8 - 3.0	2.4 - 4.2	3.3 - 5.1	3.6 - 5.7	4.2 - 6.9	4.8 - 7.8	5.4 - 8.7	5.7 - 9.6
	N.C.	<20	28	34	39	44	48	52	55
300 x 300 350 x 250 450 x 200 600 x 150	Volume l/s	130	175	215	260	305	345	390	435
	Throw m	2.1 - 3.3	2.4 - 4.2	3.3 - 5.4	3.9 - 6.3	4.2 - 7.2	4.8 - 8.1	5.4 - 9.0	6.0 - 10.0
	N.C.	<20	28	35	41	45	49	52	57
350 x 300 400 x 250 500 x 200	Volume l/s	155	205	255	305	360	410	460	510
	Throw m	2.1 - 3.3	2.7 - 4.5	3.3 - 5.4	3.9 - 6.6	4.5 - 7.5	5.1 - 8.4	5.7 - 9.3	6.3 - 11.0
	N.C.	<21	29	35	41	45	49	53	57
350 x 350 500 x 250 600 x 200 750 x 150	Volume l/s	180	240	300	360	420	480	540	600
	Throw m	2.1 - 3.3	2.7 - 4.5	3.6 - 5.7	4.2 - 6.6	4.8 - 7.8	5.4 - 8.7	6.0 - 9.6	6.6 - 11.0
	N.C.	21	29	36	42	46	51	54	58
400 x 350 450 x 300 900 x 150	Volume l/s	205	275	340	410	480	545	615	685
	Throw m	2.1 - 3.6	3.0 - 4.8	3.6 - 6.0	4.2 - 6.9	4.8 - 8.1	5.4 - 9.0	6.0 - 10.0	6.6 - 11.0
	N.C.	22	30	37	42	47	51	55	59
400 x 400 500 x 300 600 x 250 750 x 200	Volume l/s	235	315	395	475	550	630	710	790
	Throw m	2.1 - 3.6	3.0 - 4.8	3.6 - 6.0	4.2 - 7.2	5.1 - 8.4	5.7 - 9.3	6.3 - 11.0	6.9 - 11.0
	N.C.	22	31	37	43	47	52	56	59

Performance Data

EYELASH MULTI-DEFLECTION GRILLE

Series 5183 (cont'd)



Nominal Size (mm) (W x H)	Neck Vel. m/s	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
	Stat. Press. Pa	10	10	28	40	55	73	90	110
450 x 400 600 x 300 750 x 250 900 x 200	Volume l/s	265	355	445	530	620	710	800	885
	Throw m	2.4 - 3.9	3.0 - 4.8	3.9 - 6.3	4.5 - 7.5	5.1 - 8.7	5.7 - 9.6	6.6 - 11.0	7.2 - 12.0
	N.C.	22	31	37	43	48	52	57	60
450 x 450 500 x 400 600 x 350	Volume l/s	300	400	505	605	705	805	905	1 005
	Throw m	2.4 - 3.9	3.3 - 5.4	3.9 - 6.3	4.5 - 7.5	5.1 - 8.7	6.0 - 9.9	6.6 - 11.0	7.5 - 13.0
	N.C.	22	31	38	44	49	52	57	61
500 x 450 750 x 300 900 x 250	Volume l/s	335	450	560	670	785	895	1 005	-
	Throw m	2.4 - 3.9	3.3 - 5.4	3.9 - 6.6	4.8 - 7.8	5.4 - 8.7	6.0 - 10.0	6.9 - 11.0	-
	N.C.	22	32	39	45	49	53	58	-
500 x 500 600 x 400	Volume l/s	375	500	625	750	870	1 000	1 120	-
	Throw m	2.4 - 4.2	3.3 - 5.4	3.9 - 6.6	4.8 - 8.1	5.4 - 9.0	6.3 - 11.0	7.2 - 12.0	-
	N.C.	23	32	39	45	50	53	58	-
600 x 450 750 x 350 900 x 300	Volume l/s	405	540	675	810	945	1 080	1 215	-
	Throw m	2.7 - 4.2	3.6 - 5.7	4.2 - 6.9	5.1 - 8.1	5.7 - 9.3	6.6 - 11.0	7.2 - 12.0	-
	N.C.	24	32	40	45	50	54	59	-
600 x 500 750 x 400 900 x 350 1200 x 250	Volume l/s	450	600	750	900	1 050	1 200	1 350	-
	Throw m	2.7 - 4.5	3.6 - 5.7	4.2 - 6.9	5.1 - 8.4	6.0 - 9.6	6.6 - 11	7.5 - 12.0	-
	N.C.	24	33	40	45	50	55	60	-
600 x 600 750 x 500 900 x 400 1200 x 300	Volume l/s	545	725	905	1 085	1 270	1 450	-	-
	Throw m	2.7 - 4.5	3.6 - 6.0	4.5 - 7.5	5.1 - 8.7	6.0 - 10	6.9 - 11	-	-
	N.C.	25	33	41	46	51	57	-	-
900 x 450 1200 x 350	Volume l/s	610	815	1 020	1 220	1 425	1 625	-	-
	Throw m	2.7 - 4.5	3.6 - 6.0	4.5 - 7.5	5.4 - 9.0	6.3 - 11.0	7.2 - 12.0	-	-
	N.C.	25	34	42	47	52	58	-	-
750 x 600 900 x 500 1200 x 400	Volume l/s	680	910	1 135	1 360	1 590	1 815	-	-
	Throw m	3.0 - 4.8	3.9 - 6.3	4.8 - 7.8	5.4 - 9.0	6.6 - 11.0	7.5 - 12.0	-	-
	N.C.	26	34	42	47	52	59	-	-
750 x 750 900 x 600 1200 x 450	Volume l/s	855	1 140	1 425	1 710	1 995	2 280	-	-
	Throw m	3.3 - 5.1	4.2 - 6.6	5.1 - 8.1	6.0 - 9.6	6.6 - 11	7.8 - 13	-	-
	N.C.	26	35	43	48	53	59	-	-
1200 x 500	Volume l/s	910	1 215	1 515	1 820	2 125	2 425	-	-
	Throw m	3.3 - 5.1	4.2 - 6.6	5.1 - 8.4	6.0 - 9.9	6.9 - 11	8.1 - 13	-	-
	N.C.	26	35	43	48	54	59	-	-
900 x 750 1200 x 600	Volume l/s	1 030	1 370	1 715	2 060	2 400	2 745	-	-
	Throw m	3.3 - 5.4	4.2 - 6.9	5.1 - 8.7	6.0 - 10.0	7.2 - 12.0	8.4 - 14.0	-	-
	N.C.	27	36	44	49	55	60	-	-
900 x 900	Volume l/s	1 240	1 650	2 065	2 480	2 890	3 305	-	-
	Throw m	3.6 - 5.7	4.5 - 7.5	5.4 - 8.7	6.6 - 11.0	7.5 - 12.0	9.0 - 15.0	-	-
	N.C.	27	37	44	50	57	61	-	-

Note: Throw values are given for terminal velocities of 0.5 m/s and 0.25 m/s respectively.

Performance Data

EYELASH MULTI-DEFLECTION GRILLE



Series 5184

Nominal Size (mm) (W x H)	Neck Vel. m/s	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
	Stat. Press. Pa	10	10	28	40	55	73	90	110

200 x 100	Volume l/s	26	34	43	51	60	68	77	85
	Throw m N.C.	1.2 - 2.1 <20	1.5 - 2.7 23	2.1 - 3.3 30	2.4 - 3.9 34	2.7 - 4.5 39	3.0 - 5.1 42	3.6 - 6.0 46	3.9 - 6.6 49
150 x 150 250 x 100	Volume l/s	30	40	50	60	70	80	90	100
	Throw m N.C.	1.5 - 2.4 <20	1.8 - 2.7 24	2.1 - 3.6 30	2.7 - 4.2 35	3.0 - 5.10 40	3.3 - 5.4 43	3.9 - 6.3 47	4.2 - 6.9 50
200 x 150 300 x 100	Volume l/s	41	54	68	81	95	110	120	135
	Throw m N.C.	1.5 - 2.4 <20	1.8 - 3.0 25	2.1 - 3.6 31	2.7 - 4.5 37	3.3 - 5.1 41	3 - 6.0 44	3.9 - 6.6 47	4.5 - 7.2 51
200 x 200 250 x 150 400 x 100	Volume l/s	55	74	92	110	130	145	165	185
	Throw m N.C.	1.5 - 2.4 <20	1.8 - 3.0 25	2.4 - 3.6 32	2.7 - 4.5 37	3.3 - 5.4 42	3.6 - 6.0 45	4.2 - 6.6 48	4.5 - 7.5 52
300 x 500 450 x 100	Volume l/s	62	83	105	125	145	165	185	210
	Throw m N.C.	1.5 - 2.4 <20	1.8 - 3.0 26	2.4 - 3.9 32	3.0 - 4.8 37	3.3 - 5.7 42	3.9 - 6.3 46	4.2 - 7.2 49	4.8 - 7.8 52
250 x 200 350 x 150 500 x 100	Volume l/s	70	93	115	140	160	185	210	230
	Throw m N.C.	1.5 - 2.7 <20	2.1 - 3.3 27	2.4 - 4.2 33	3.3 - 5.1 38	3.6 - 6.0 43	3.9 - 6.6 47	4.5 - 7.5 49	4.8 - 8.1 53
250 x 250 300 x 200 400 x 150 600 x 100	Volume l/s	89	120	150	180	210	235	265	295
	Throw m N.C.	1.5 - 2.7 <20	2.1 - 3.6 27	2.7 - 4.5 33	3.0 - 5.1 39	3.6 - 6.0 44	4.2 - 6.6 47	4.5 - 7.5 51	5.1 - 8.4 54
350 x 200 450 x 150	Volume l/s	100	130	165	200	230	265	300	330
	Throw m N.C.	1.5 - 2.7 <20	2.1 - 3.6 27	3.0 - 4.5 34	3.3 - 5.4 39	3.9 - 6.3 44	4.2 - 7.2 48	4.8 - 8.1 52	5.4 - 8.7 55
300 x 250 400 x 200 500 x 150	Volume l/s	110	145	180	215	250	290	325	360
	Throw m N.C.	1.8 - 2.7 <20	2.4 - 3.9 28	2.7 - 4.5 34	3.3 - 5.7 39	3.9 - 6.6 44	4.5 - 7.2 48	4.8 - 7.8 52	5.4 - 8.7 55
300 x 300 350 x 250 450 x 200 600 x 150	Volume l/s	130	175	215	260	305	345	390	435
	Throw m N.C.	1.8 - 2.7 <20	2.4 - 3.9 28	3.0 - 5.1 35	3.6 - 6.0 41	4.2 - 6.6 45	4.5 - 7.5 49	5.1 - 8.4 52	5.7 - 9.3 57
350 x 300 400 x 250 500 x 200	Volume l/s	155	205	255	305	360	410	460	510
	Throw m N.C.	1.8 - 3.0 <21	2.4 - 4.2 29	3.3 - 5.1 35	3.6 - 6.0 41	4.2 - 6.9 45	4.8 - 7.8 49	5.1 - 8.7 53	6.0 - 9.6 57
350 x 350 500 x 250 600 x 200 750 x 150	Volume l/s	180	240	300	360	420	480	540	600
	Throw m N.C.	1.8 - 3.0 21	2.4 - 4.2 29	3.3 - 5.1 36	3.9 - 6.3 42	4.5 - 7.5 46	5.1 - 8.1 51	5.4 - 9.0 54	6.0 - 10.0 58
400 x 350 450 x 300 900 x 150	Volume l/s	205	275	340	410	480	545	615	685
	Throw m N.C.	2.1 - 3.3 22	2.7 - 4.5 30	3.3 - 5.4 37	3.9 - 6.6 42	4.5 - 7.5 47	5.1 - 8.4 51	5.7 - 9.3 55	6.3 - 11.0 59
400 x 400 500 x 300 600 x 250 750 x 200	Volume l/s	235	315	395	475	550	630	710	790
	Throw m N.C.	2.1 - 3.3 22	2.7 - 4.5 31	3.3 - 5.7 37	3.9 - 6.6 43	4.5 - 7.5 47	5.1 - 8.7 52	5.7 - 9.6 56	6.6 - 11.0 59

Performance Data

EYELASH MULTI-DEFLECTION GRILLE

Series 5184 (cont'd)



Nominal Size (mm) (W x H)	Neck Vel. m/s	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
	Stat. Press. Pa	10	10	28	40	55	73	90	110
450 x 400 600 x 300 750 x 250 900 x 200	Volume l/s	265	355	445	530	620	710	800	885
	Throw m	2.1 - 3.6	2.7 - 4.5	3.6 - 6.0	4.2 - 6.9	4.8 - 8.1	5.1 - 8.7	6.0 - 10	6.6 - 11
	N.C.	22	31	37	43	48	52	57	60
450 x 450 500 x 400 600 x 350	Volume l/s	300	400	505	605	705	805	905	1005
	Throw m	2.1 - 3.6	3.0 - 4.8	3.6 - 6.0	4.2 - 7.2	4.8 - 8.1	5.4 - 9.0	6.3 - 11.0	6.9 - 11.0
	N.C.	22	31	38	44	49	52	57	61
500 x 450 750 x 300 900 x 250	Volume l/s	335	445	560	670	785	895	1 005	-
	Throw m	2.1 - 3.6	3.0 - 5.1	3.6 - 6.0	4.5 - 7.5	5.1 - 8.4	5.7 - 9.3	6.6 - 11.0	-
	N.C.	22	32	39	45	49	53	58	-
500 x 500 600 x 400	Volume l/s	375	500	625	750	870	995	1 120	-
	Throw m	2.4 - 3.9	3.3 - 5.1	3.9 - 6.3	4.5 - 7.5	5.1 - 8.7	6.0 - 9.9	6.6 - 11.0	-
	N.C.	23	32	39	45	50	53	58	-
600 x 450 750 x 350 900 x 300	Volume l/s	405	540	675	810	945	1 080	1 215	-
	Throw m	2.4 - 3.9	3.3 - 5.1	3.9 - 6.6	4.5 - 7.5	5.1 - 8.7	6.0 - 9.9	6.6 - 11.0	-
	N.C.	24	32	40	45	50	54	59	-
600 x 500 750 x 400 900 x 350 1200 x 250	Volume l/s	450	600	750	900	1 050	1 200	1 350	-
	Throw m	2.4 - 3.9	3.3 - 5.4	3.9 - 6.6	4.8 - 7.8	5.4 - 8.7	6.3 - 10.0	6.6 - 11.0	-
	N.C.	24	33	40	45	50	55	60	-
600 x 600 750 x 500 900 x 400 1200 x 300	Volume l/s	545	725	905	1 085	1 270	1 450	-	-
	Throw m	2.7 - 4.5	3.3 - 5.4	4.2 - 6.9	5.1 - 8.1	5.7 - 9.3	6.3 - 11.0	-	-
	N.C.	25	33	41	46	51	57	-	-
900 x 450 1200 x 350	Volume l/s	610	815	1 020	1 220	1 425	1 625	-	-
	Throw m	2.7 - 4.5	3.6 - 5.7	4.2 - 6.9	5.1 - 8.4	5.7 - 9.3	6.6 - 11.0	-	-
	N.C.	25	34	42	47	52	58	-	-
750 x 600 900 x 500 1200 x 400	Volume l/s	680	910	1 135	1 360	1 590	1 815	-	-
	Throw m	2.7 - 4.5	3.6 - 6.0	4.5 - 7.5	5.1 - 8.7	6.0 - 9.9	6.6 - 11.0	-	-
	N.C.	26	34	42	47	52	59	-	-
750 x 750 900 x 600 1200 x 450	Volume l/s	855	1 140	1 425	1 710	1 995	2 280	-	-
	Throw m	2.7 - 4.5	3.9 - 6.3	4.5 - 7.5	5.4 - 8.7	6.3 - 11.0	7.2 - 12.0	-	-
	N.C.	26	35	43	48	53	59	-	-
1200 x 500	Volume l/s	910	1 215	1 515	1 820	2 125	2 425	-	-
	Throw m	3.0 - 4.8	3.9 - 6.3	4.8 - 7.8	5.4 - 9.0	6.6 - 11.0	7.5 - 12.0	-	-
	N.C.	26	35	43	48	54	59	-	-
900 x 750 1200 x 600	Volume l/s	1 030	1 370	1 715	2 060	2 400	2 745	-	-
	Throw m	3.0 - 4.8	3.9 - 6.6	4.8 - 8.1	5.7 - 9.3	6.6 - 11.0	7.5 - 12.0	-	-
	N.C.	27	36	44	49	55	60	-	-
900 x 900	Volume l/s	1 240	1 650	2 065	2 480	2 890	3 305	-	-
	Throw m	3.3 - 5.1	4.2 - 6.6	5.1 - 8.4	6.0 - 9.9	6.9 - 11.0	8.4 - 13.0	-	-
	N.C.	27	37	44	50	57	61	-	-

Note: Throw values are given for terminal velocities of 0.5 m/s and 0.25 m/s respectively.

SUGGESTED SPECIFICATIONS

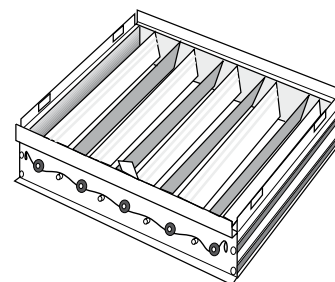
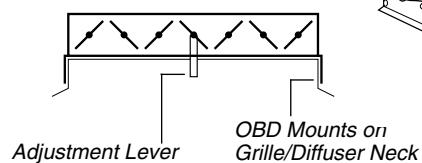
Eyelash Multi-Deflection Grille - Series 5180

All multi-deflection grilles/diffusers shall have individually adjustable curved (eye lash) deflection vanes arranged to suit the specified air patterns. Frames and vanes shall be of aluminium alloy sections, finished in commercial grade powder or stoving enamel coating, all as manufactured by **temperzone** Limited. Where grilles/diffusers (registers) are fitted with opposed blade volume regulating dampers (OBD), the adjustment lever shall be accessible from the register face.

ACCESSORIES

Opposed Blade Damper (OBD)

- Controls air volume for balancing and fine adjustment
- Installs directly to neck with clip fasteners
- Lever operated from the face of the grille/diffuser
- Not intended for use as a shut-off damper
- Aluminium construction
- Sized to suit grilles/diffusers



Square to Round Adaptor (SRA)

- Adapts square neck grilles/diffusers to round flexible or rigid ducting
- Black Satin enamel finish on inside surfaces
- Galvanised steel construction; black polyethylene construction for size 300 sq. to 200/250 round
- Sized to suit grilles/diffusers and ducting

