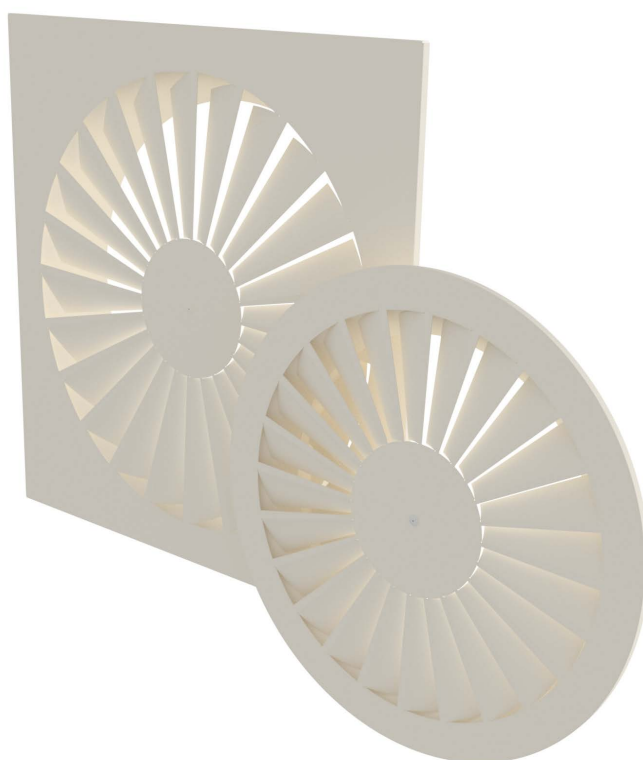


STRAIGHT VANE SWIRL DIFFUSER



STRAIGHT VANE SWIRL DIFFUSER

SSW Straight vane swirl diffusers are suitable for ceiling mounting and can be manufactured to suit most ceiling tile arrangements.

The SSW straight vane swirl diffuser offers excellent induction of room air and the rapid decay of supply air velocities and air temperature differentials.

Available in square or circular formats, the SSW can be manufactured to suit standard lay-in, tegular and clip-in ceiling systems.

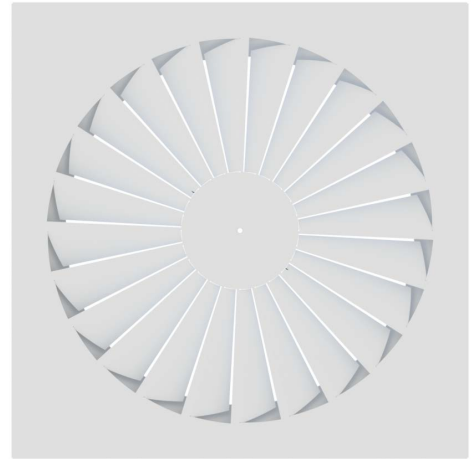
SSW swirl diffusers are also suitable for exposed ceiling applications.

Bespoke plenum boxes can be supplied to suit and are available in either galvanized or painted finish and with acoustic & thermal foam lining.

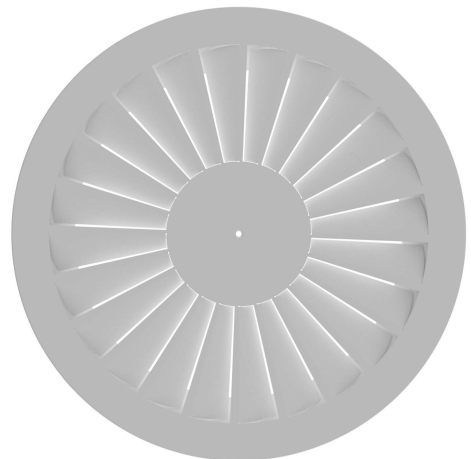
Tegular frame options are available to suit most ceiling systems



SSW-24-L Lay-in Ceiling Type



SSW-24-C Circular Type



SSW-24-C Circular Exposed Ceiling Type

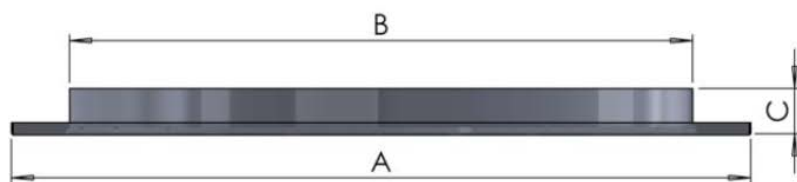


19/11/25

Frame Options, Dimensional Information & Ordering

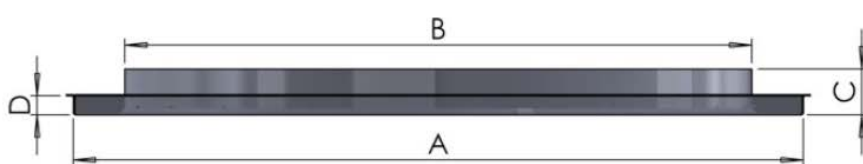
Multiple Variations

SSW-24-L Lay-in Ceiling Type



Nom Size	A	B	C
200	595 x 595	197	37mm
300	595 x 595	297	37mm
350	595 x 595	347	37mm
450	595 x 595	447	37mm
500	595 x 595	500	37mm
535	595 x 595	535	37mm

SSW-24-T Tegular Ceiling Type



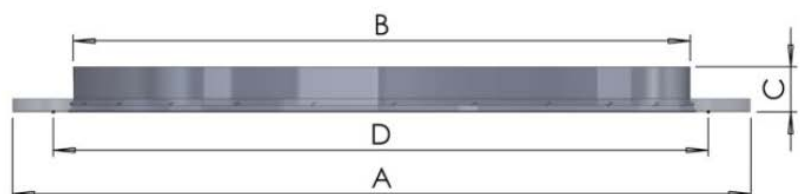
Nom Size	A	B	C	D
200	574 / 584	197	37mm	Drop Size
300	574 / 584	297	37mm	Drop Size
350	574 / 584	347	37mm	Drop Size
450	574 / 584	447	37mm	Drop Size
500	574 / 584	500	37mm	Drop Size
535	574 / 584	535	37mm	Drop Size

SSW-24-M Clip-in Metal Ceiling Type



Nom Size	A	B	C
200	599 x 599	197	37mm
300	599 x 599	297	37mm
350	599 x 599	347	37mm
450	599 x 599	447	37mm
500	599 x 599	500	37mm
535	599 x 599	535	37mm

SSW-24-C Circular Swirl Diffuser



Nom Size	A	B	C	D
200	300 Dia	197	37mm	225
300	400 Dia	297	37mm	325
350	500 Dia	347	37mm	375
450	600 Dia	447	37mm	475
500	600 Dia	500	37mm	525
535	600 Dia	535	37mm	560

How to Order

Type	No of Blades	Edge Detail	Tegular Depth	Size	Overall Size	Finish
		L - Lay In Grid		200		
		C - Circular		300		RAL Colour
SSW	24	T15 - Tegular 584 x 584	e.g. 8mm	350	e.g. 595 x 595	Galvanised
		T24 - Tegular 574 x 574		450		Stainless Steel
		M - Clip In Metal Tile		500		
				535		

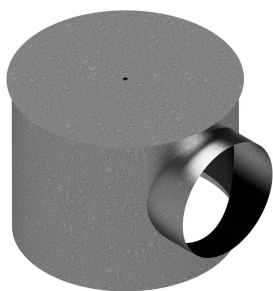
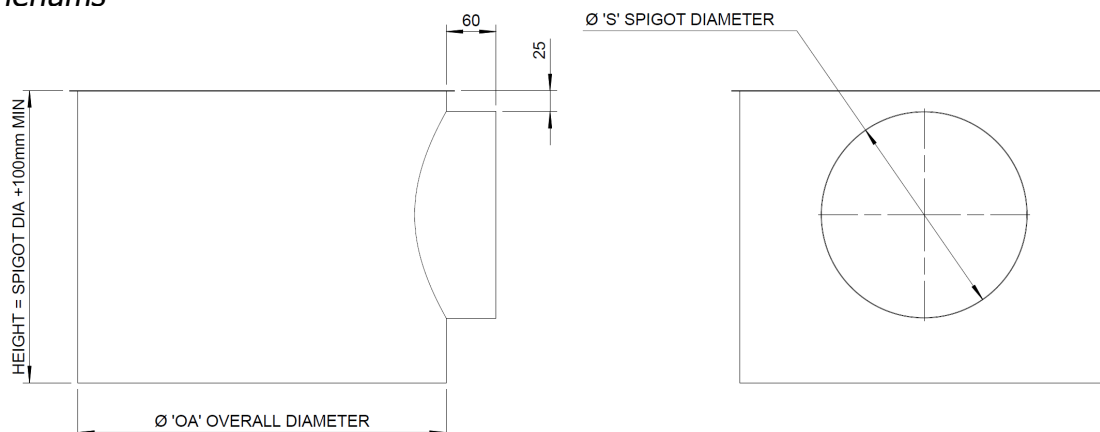
e.g. 10 No SSW - 24 - L - 450 - 595 x 595 - RAL 9010

19/11/25

Plenum Box Dimensions & Standards

All plenum boxes are available with 6mm or 12mm Class 'O' foam lining. Additional spigots and bespoke boxes are available on request, please contact the Sales Office to discuss your requirements.

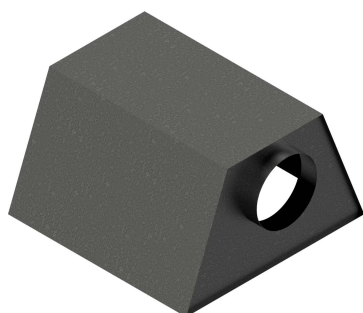
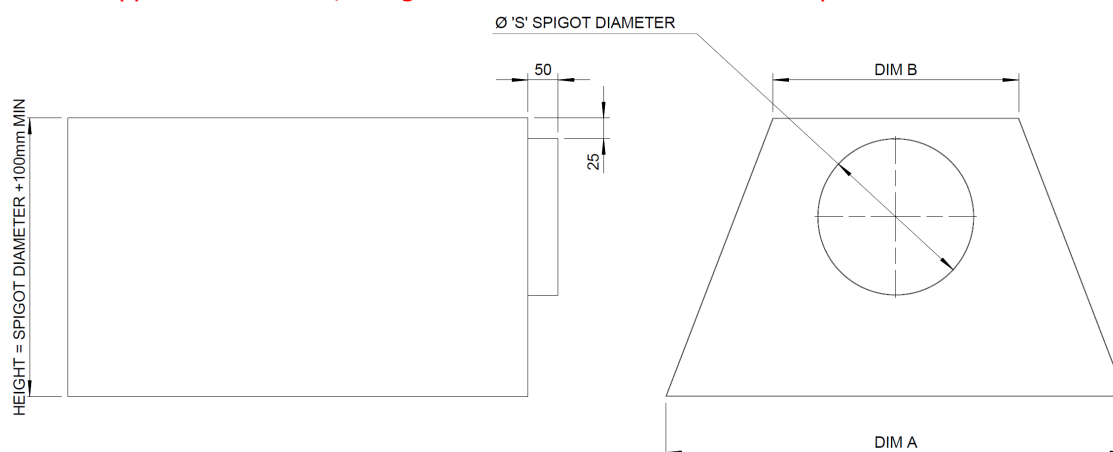
Circular Plenums



Nom Diffuser Size	OA Ceiling Type	OA Exposed Type
200	210	297
300	310	397
350	360	497
450	460	597
500	510	597
535	545	597

Square Plenums

Tapered boxes are supplied as standard, straight sided boxes are available on request.



Nom Diffuser Size	DIM A	DIM B
200	290	197
300	390	297
350	440	347
450	540	447
500	540	500
535	580	535

19/11/25

Performance Data

Performance Data

Size		10	15	20	25	30	35	40	45	50
200 DIA	L/s	10	15	20	25	30	35	40	45	50
	Throw m 0.5 - 0.25 m/s	0.3 - 0.5	0.4 - 0.8	0.5 - 1.0	0.6 - 1.3	0.8 - 1.5	0.9 - 1.8	1.0 - 2.2	1.2 - 2.3	1.3 - 2.7
	Pa	1	3	5	9	12	17	22	28	41
	NR	2	3	6	12	17	22	25	29	32
	L/s	55	60	65	70					
	Throw m 0.5 - 0.25 m/s	1.4 - 2.8	1.5 - 3.1	1.7 - 2.3	1.8 - 3.6					
	Pa	41	49	57	67					
300 DIA	NR	34	37	39	41					
	L/s	30	35	40	45	50	55	60	65	70
	Throw m 0.5 - 0.25 m/s	0.5 - 1.0	0.6 - 1.2	0.7 - 1.4	0.7 - 1.5	0.8 - 1.7	0.9 - 1.9	1.2 - 2.2	1.2 - 2.3	1.2 - 2.4
	Pa	3	4	5	6	8	9	11	13	15
	NR	2	4	7	11	14	16	19	21	22
	L/s	75	80	85	90	95	100	105	110	115
	Throw m 0.5 - 0.25 m/s	1.3 - 2.5	1.4 - 2.7	1.5 - 2.9	1.8 - 3.1	2.1 - 3.2	2.2 - 3.4	2.6 - 3.6	2.6 - 3.7	2.6 - 3.9
350 DIA	Pa	17	20	22	25	28	31	33	38	41
	NR	25	27	29	30	32	33	35	36	37
	L/s	50	55	60	65	70	80	90	100	110
	Throw m 0.5 - 0.25 m/s	0.8 - 1.6	0.8 - 1.7	1.0 - 1.9	1.1 - 2.0	1.1 - 2.2	1.2 - 2.5	1.5 - 2.8	1.5 - 3.1	1.5 - 3.4
	Pa	4	4	5	6	7	9	12	14	17
	NR	4	6	9	11	13	17	20	23	26
	L/s	120	130	140	150	160	170	180	190	200
450 DIA	Throw m 0.5 - 0.25 m/s	1.8 - 3.8	2.0 - 4.1	2.1 - 4.4	2.3 - 4.7	2.4 - 5.0	2.5 - 5.3	2.8 - 5.6	2.9 - 5.9	3.0 - 6.3
	Pa	21	24	28	32	36	41	46	51	57
	NR	28	31	33	35	36	38	40	41	43
	L/s	75	80	90	100	110	120	130	140	150
	Throw m 0.5 - 0.25 m/s	0.8 - 1.8	0.9 - 1.9	1.0 - 2.2	1.1 - 2.4	1.2 - 2.6	1.4 - 2.9	1.5 - 3.1	1.6 - 3.4	1.8 - 3.6
	Pa	23	26	29	33	36	40	44	48	52
	NR	5	7	10	13	16	18	21	23	25
500 DIA	L/s	160	170	180	190	200	210	220	230	240
	Throw m 0.5 - 0.25 m/s	1.8 - 3.8	2.0 - 4.1	2.1 - 4.3	2.3 - 4.6	2.4 - 4.8	2.4 - 5.0	2.5 - 5.3	2.7 - 5.5	2.8 - 5.8
	Pa	23	26	29	33	36	40	44	48	52
	NR	26	28	30	31	33	34	35	37	38
	L/s	100	110	120	130	140	150	160	170	180
	Throw m 0.5 - 0.25 m/s	0.8 - 2.0	1.0 - 2.2	1.1 - 2.4	1.2 - 2.6	1.3 - 2.8	1.4 - 3.0	1.5 - 3.2	1.6 - 3.4	1.8 - 3.6
	Pa	6	7	8	9	11	13	14	16	18
535 DIA	NR	2	3	5	8	15	17	18	20	22
	L/s	190	200	210	220	230	240	260	280	300
	Throw m 0.5 - 0.25 m/s	1.8 - 3.8	2.0 - 4.0	2.1 - 4.2	2.2 - 4.4	2.2 - 4.6	2.3 - 4.8	2.5 - 5.2	2.6 - 5.6	2.9 - 6.0
	Pa	20	22	25	27	29	32	38	44	50
	NR	23	25	26	27	29	30	32	34	36
	L/s	150	170	190	210	220	230	240	250	260
	Throw m 0.25 - 0.5 m/s	2.5 - 1.3	2.9 - 1.4	3.2 - 1.6	3.5 - 1.8	3.7 - 1.8	3.9 - 1.9	4 - 2	4.2 - 2.1	4.4 - 2.2
535 DIA	Pa	8	10	13	16	18	19	21	23	25
	NR	12	15	18	21	22	24	25	26	27
	L/s	270	280	290	300	310	320	330	340	350
	Throw m 0.25 - 0.5 m/s	4.5 - 2.3	4.7 - 2.4	4.9 - 2.4	5 - 2.5	5.2 - 2.6	5.4 - 2.7	5.5 - 2.8	5.7 - 2.9	5.9 - 2.9
	Pa	26	28	31	33	35	37	40	42	44
535 DIA	NR	28	29	30	31	32	33	34	35	36

NOTE:

All throws based on terminal velocities of 0.5 - 0.25 m/s

For Return Air Applications Multiply Pa x 0.75, NC Levels remain the same

19/11/25