

Square & rectangular louvre faced diffusers fixed (SQD/F)

Square & rectangular louvre face diffusers (SQD/F) are suitable for supply air ceiling applications where air is to be introduced with the maximum diffusion and minimum disturbance.

The core, available to give 1, 2, 3 or 4 way throw patterns giving

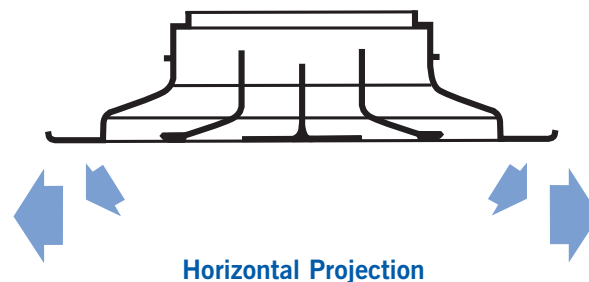
horizontal discharge, is removable for access and fitting.

The SQD/F can be supplied with Opposed Blade Dampers (OBD), Equalising Grids (EQD), Plenum boxes (PLB) and Adaptor Boxes (ADB).

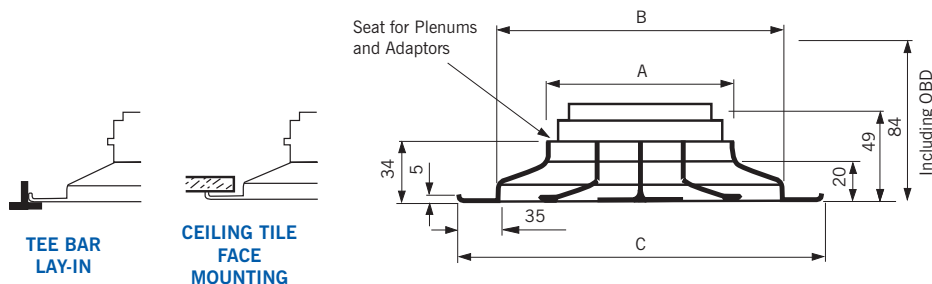
SQD/F diffusers are manufactured from extruded aluminium sections, the mitred corners being fully welded.

Finally they are powder coated RAL 9010 white as standard.

Other finishes are available.



Dimensions



A. NOMINAL DUCT SIZE	150	225	300	375	450	525	600
B. CEILING OPENING SIZE	240	315	390	465	540	615	690
C. OVERALL FLANGE SIZE	295	370	445	520	595	670	745

Fixing methods

FMF: Screw fixing through neck (standard).

Core patterns

Louvre faced diffusers (SQD or SQD/F)

Linear Louvre Faced Diffusers are also available with one or two way throw patterns.

Other configurations and larger sizes are available – contact Sales Office for details.

D02


Square and rectangular louvre faced diffusers fixed SQD (SQD/F)

	Square	Rectangular	
4 WAY	SQD/4 or SQD/F/4 	SQD/4A or SQD/F/4A 	
3 WAY	SQD/3 or SQD/F/3 	SQD/3A or SQD/F/3A 	SQD/3B or SQD/F/3B
2 WAY	SQD/2 or SQD/F/2 	SQD/2A or SQD/F/2A 	SQD/2B or SQD/F/2B
1 WAY	SQD/1 or SQD/F/1 	SQD/1A or SQD/F/1A 	SQD/1B or SQD/F/1B
CORNER	SQD/2C or SQD/F/2C 	SQD/2CR or SQD/F/2CR 	SQD/2CL or SQD/F/2CL

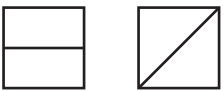
Performance data

Louvre faced diffusers (SQD or SQD/F)

One way blow, style SQD/1 or SQD/F/1

		Neck Velocity m/s / Total Pressure Pa												
		m/s Pa		m/s Pa		m/s Pa		m/s Pa		m/s Pa				
		1.50	7.5	2.00	13.0	2.50	20.0	3.00	29.00	3.50	38.00			
Neck Size mm	150 x 150	Air Vol m ³ /s Throw NC	0.034 1.8-3.3 25	0.045 2.3-4.0 26	0.056 2.5-4.8 29	0.068 2.9-5.8 34	0.079 3.3-6.1 39	225 x 225	Air Vol m ³ /s Throw NC	0.076 2.5-4.5 24	0.101 3.3-5.8 24	0.127 4.0-6.8 24	0.152 4.4-8.0 26	0.177 4.8-8.7 30
	300 x 300	Air Vol m ³ /s Throw NC	0.135 3.3-6.0 24	0.180 4.0-6.8 24	0.225 4.8-8.5 27	0.270 5.2-9.8 32	0.315 6.3-11.0 36	375 x 375	Air Vol m ³ /s Throw NC	0.211 4.0-6.8 24	0.280 4.8-8.8 24	0.352 5.5-10.5 31	0.422 6.3-11.5 35	0.492 7.0-13.0 39
	450 x 450	Air Vol m ³ /s Throw NC	0.304 4.5-7.5 23	0.405 5.2-9.2 27	0.506 6.0-11.0 35	0.607 7.1-12.0 41	0.708 7.8-13.6 46	525 x 525	Air Vol m ³ /s Throw NC	0.413 4.8-8.2 24	0.550 5.8-10.0 30	0.689 6.8-11.8 37	0.826 7.5-12.6 43	0.964 8.2-14.2 47
	600 x 600	Air Vol m ³ /s Throw NC	0.540 5.2-9.5 24	0.720 6.2-10.6 31	0.900 7.3-13.0 37	1.080 7.9-13.2 39	1.260 8.8-15.0 43							

Two way blow, styles SQD/2 or SQD/F/2 and SQD/2C or or SQD/F/2C


		Neck Velocity m/s / Total Pressure Pa												
		m/s Pa		m/s Pa		m/s Pa		m/s Pa		m/s Pa				
		1.50	7.5	2.00	13.0	2.50	20.0	3.00	29.00	3.50	38.00			
Neck Size mm	150 x 150	Air Vol m ³ /s Throw NC	0.034 1.5-2.5 25	0.045 1.8-3.1 26	0.056 2.0-3.6 29	0.068 2.5-4.1 34	0.079 2.6-4.8 39	225 x 225	Air Vol m ³ /s Throw NC	0.076 2.0-3.2 24	0.101 2.3-4.5 24	0.127 2.6-5.3 24	0.152 3.0-5.8 26	0.177 3.4-6.3 30
	300 x 300	Air Vol m ³ /s Throw NC	0.135 2.4-4.2 24	0.180 3.0-5.8 24	0.225 3.5-6.3 27	0.270 4.0-7.4 32	0.315 4.7-8.1 36	375 x 375	Air Vol m ³ /s Throw NC	0.211 3.0-5.2 24	0.280 3.5-6.5 24	0.352 4.3-7.7 31	0.422 5.0-9.3 35	0.492 5.4-10.3 39
	450 x 450	Air Vol m ³ /s Throw NC	0.304 3.1-6.2 23	0.405 3.9-7.3 27	0.506 4.8-8.9 35	0.607 5.4-10.2 41	0.708 6.2-11.5 46	525 x 525	Air Vol m ³ /s Throw NC	0.413 3.5-7.0 24	0.550 4.7-8.5 30	0.689 5.2-9.8 37	0.826 5.9-10.9 43	0.964 6.6-12.1 47
	600 x 600	Air Vol m ³ /s Throw NC	0.540 4.0-7.7 24	0.720 5.0-9.0 31	0.900 6.0-10.6 37	1.080 6.5-11.3 39	1.260 7.3-12.6 43							

Throws are for terminal velocities of 0.5-0.25m/s respectively

Performance data


Louvre faced diffusers (SQD or SQD/F)

Three way blow, style SQD/3 or SQD/F/3

			Neck Velocity m/s / Total Pressure Pa									
			m/s Pa		m/s Pa		m/s Pa		m/s Pa		m/s Pa	
			1.50	7.5	2.00	13.0	2.50	20.0	3.00	29.00	3.50	38.00
Neck Size mm	150 x 150	Air Vol m ³ /s Throw NC	0.034 1.0/1.2-2.0/2.5 25	0.045 1.2/1.3-2.1/2.5 26	0.056 1.3/1.8-2.2/3.1 29	0.068 1.6/2.0-2.7/3.8 34	0.079 2.0/2.1-3.3/4.2 39					
	225 x 225	Air Vol m ³ /s Throw NC	0.076 1.2/1.5-2.5/3.0 24	0.101 1.5/2.0-2.7/3.8 24	0.127 1.7/2.3-3.3/4.2 24	0.152 2.0/2.8-3.9/4.9 26	0.177 2.3/2.9-4.1/5.6 30					
	300 x 300	Air Vol m ³ /s Throw NC	0.135 1.5/2.0-2.8/3.8 24	0.180 1.8/2.3-3.6/4.4 24	0.225 2.0/2.7-4.2/5.1 27	0.270 2.4/3.4-4.5/6.2 32	0.315 2.3/3.7-5.1/6.8 36					
	375 x 375	Air Vol m ³ /s Throw NC	0.211 1.9/2.4-3.3/4.4 24	0.280 2.0/2.9-4.1/5.4 24	0.352 2.4/3.8-4.9/6.5 31	0.422 3.1/4.1-5.7/7.5 35	0.492 3.5/4.7-6.3/8.4 39					
	450 x 450	Air Vol m ³ /s Throw NC	0.304 2.3/3.3-4.4/6.1 23	0.405 2.4/3.5-4.5/6.3 27	0.506 3.1/4.0-5.8/7.3 35	0.607 3.4/4.8-6.8/8.8 41	0.708 3.9/5.3-7.5/9.3 46					
	525 x 525	Air Vol m ³ /s Throw NC	0.413 2.5/3.5-4.8/6.5 24	0.550 2.6/4.0-5.0/6.7 30	0.689 3.3/4.4-6.8/7.7 37	0.826 3.7/5.2-7.3/9.2 43	0.964 4.2/5.7-8.1/9.9 47					
	600 x 600	Air Vol m ³ /s Throw NC	0.540 2.8/4.2-5.2/6.9 24	0.720 3.0/4.2-5.5/7.2 31	0.900 4.0/5.0-7.5/8.2 37	1.080 4.2/5.5-7.8/9.8 39	1.260 4.5/6.1-8.6/10.5 43					

Note: Throw figures are short side/long side.

Four Way Blow, Styles SQD/4 or SQD/F/4

			Neck Velocity m/s / Total Pressure Pa									
			m/s Pa		m/s Pa		m/s Pa		m/s Pa		m/s Pa	
			1.50	7.5	2.00	13.0	2.50	20.0	3.00	29.00	3.50	38.00
Neck Size mm	150 x 150	Air Vol m ³ /s Throw NC	0.034 1.0-1.7 25	0.045 1.2-2.1 26	0.056 1.6-2.5 29	0.068 1.8-3.0 34	0.079 2.0-3.3 39					
	225 x 225	Air Vol m ³ /s Throw NC	0.076 1.2-2.2 24	0.101 1.6-2.7 24	0.127 1.9-3.3 24	0.152 2.1-3.7 26	0.177 2.4-4.1 30					
	300 x 300	Air Vol m ³ /s Throw NC	0.135 1.5-2.5 24	0.180 1.9-3.4 24	0.225 2.0-4.2 27	0.270 2.4-4.5 32	0.315 2.7-5.1 36					
	375 x 375	Air Vol m ³ /s Throw NC	0.211 1.8-3.2 24	0.280 2.0-4.1 24	0.352 2.4-4.9 31	0.422 3.1-5.7 35	0.492 3.5-6.3 39					
	450 x 450	Air Vol m ³ /s Throw NC	0.304 2.0-3.9 23	0.405 2.4-4.5 27	0.506 3.1-5.8 35	0.607 3.5-6.8 41	0.708 3.9-7.5 46					
	525 x 525	Air Vol m ³ /s Throw NC	0.413 2.3-4.7 24	0.550 2.8-5.5 30	0.689 3.5-7.0 37	0.826 3.9-7.5 43	0.964 4.3-8.5 47					
	600 x 600	Air Vol m ³ /s Throw NC	0.540 2.5-5.1 24	0.720 3.3-6.3 31	0.900 4.2-7.5 37	1.080 4.5-8.8 39	1.260 5.1-9.7 43					

Throws are for terminal velocities of 0.5-0.25m/s respectively