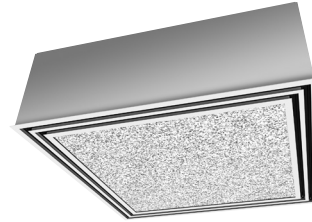
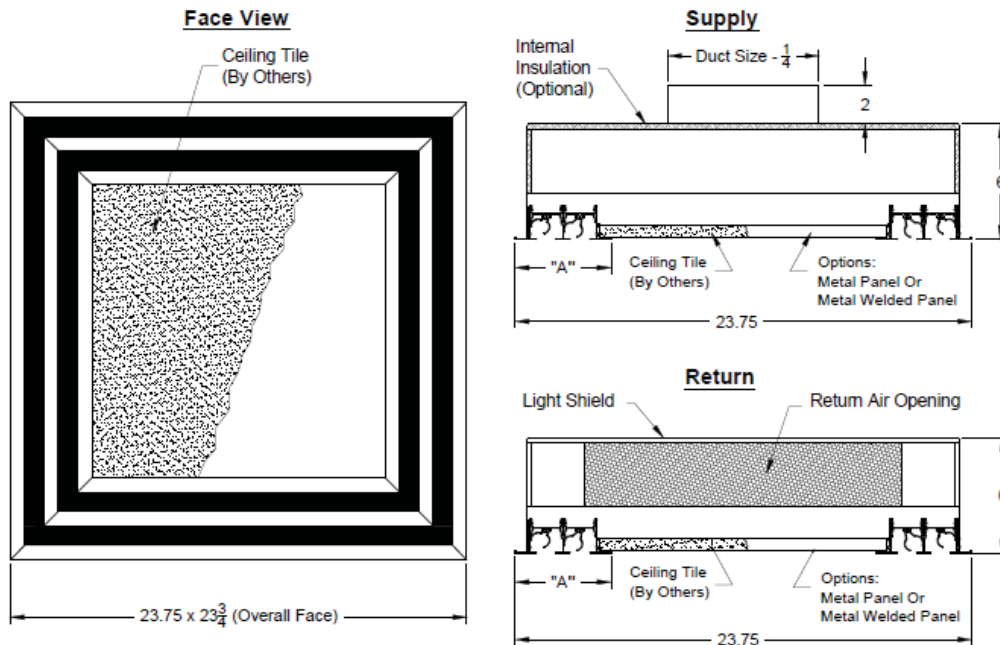


MODEL 6600SQ

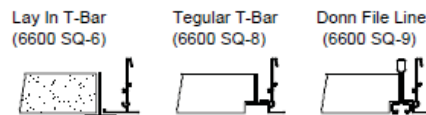
The 6600SQ series' unique design combines a ceiling tile (by others) placed into the face of the diffuser. The unit provides a full 180° air pattern adjustment and tight horizontal air patterns.



- Designed to accept all popular ceiling tiles
- Available in 1-4 slots with 1/2", 3/4" or 1" slot widths
- 1 1/2" slot width available in 1 and 2 slots only
- Available with insulation (Model 6600SQI)
- Available without pattern controllers as a return (Model 6600SQR)
- Optional metal face welded or shipped loose



Ceiling Grid Systems



Model	Slot	1 Slot	2 Slot	3 Slot	4 Slot
	Width	A	A	A	A
6650SQ-6	1/2	2 3/4	4	5 1/4	6 1/2
6675SQ-6	3/4	3	4 1/2	6	7 1/2
6610SQ-6	1	3 1/4	5	6 3/4	8 1/2
6615SQ-6	1 1/2	3 3/4	6	N/A	N/A

SERIES 6600SQ SPECIFICATIONS

LINEAR SLOT DIFFUSER — MODULAR — ALUMINUM — MODELS 6600SQ/6600SQI/6600SQR

- Air diffusers shall be supply models 6600SQ (non-insulated) and 6600SQI (insulated) or return model 6600SQR manufactured by METALAIRE. Units shall be constructed of heavy gauge extruded aluminum. Diffusers shall have 1-4 slots with 1/2", 3/4" or 1" slot widths and 1 1/2" slot widths available with 1 or 2 slots. The units shall be the size and quantity as outlined in the plans and specifications.
- The supply units shall be square face ceiling diffusers and shall have a factory installed backpan. The backpan must be of sufficient height to allow the center tile (by the ceiling system manufacturer) to be installed from the diffuser face without disassembling the face from the backpan. Devices without back pan attached to the diffuser face will not be allowed. The pattern controllers shall be curved aerodynamically shaped, capable of adjustment from the face of the diffuser. The pattern controllers shall allow adjustment from vertical to horizontal patterns as well as damper the volume through the face of the diffuser. Pattern controllers shall be aluminum construction. Steel pattern controllers are not acceptable.
- The return units shall be square face ceiling diffusers and shall have a factory attached light shield. The light shield must be of sufficient height to allow center tile (by the ceiling system manufacturer) to be installed from the diffuser face without disassembling the face from the light shield. Devices without light shield attached to the diffuser face will not be allowed. The face shall be designed to match the appearance of the supply unit.

Performance Specification

The manufacturer shall provide published performance data. Data shall be tested in accordance to ANSI/ASHRAE Standard 70-2006.

Paint Specification

Process shall be anodic electro-deposition using an anodic acrylic paint. Units shall undergo pre-treatment including a pressurized spray stage using an alkaline cleaner and a de-ionized water rinse.

SERIES 6600SQ MODEL NUMBER SPECIFICATION

SUPPLY - MODULAR SLOT ARCHITECTURAL DIFFUSER

MODEL 6600SQ

Model		Slot Width	# of Slots	Inlet Size	Module
6600SQ-6	T-bar Lay-in	1/2	1	6	24 x 24
6600SQI-6	T-bar Lay-in Insulated	3/4	2	8	
6600SQ-8	Tegular T-bar	1	3	10	
6600SQI-8	Tegular T-bar Insulated		4	12	
6600SQ-9	Donn Finline	1 1/2	1	14	
6600SQI-9	Donn Finline Insulated		2		

Available Finishes		Available Accessories	
Standard		D3	Aluminum Radial Opposed Blade Damper
20	White Face w/ Black PC	G3	Equalizing Grid
Optional		BDS	Butterfly Damper
21	Clear Anodized Face w/ Black PC	RSD	Radial Shutter Damper
28	Custom Color	TBPF	T-Bar Plaster Frame

RETURN MODULAR SLOT ARCHITECTURAL DIFFUSER

MODEL 6600SQR

Model	Slot Width	# Slots	Module	Available Finishes	
6600SQR-6	1/2	1	24 x 24	Standard	
6600SQR-8	3/4	2		20	White Face
6600SQR-9	1	3		Optional	
		4		21	Clear Anodized Face
		1		28	Custom Color
	1 1/2	2			

SERIES 6600SQ PERFORMANCE DATA

MODEL 6600SQ 1" SLOT WIDTH

1 Slot 8" Inlet	CFM	100	150	200	250	300	350
	Throw	3-5-10	5-7-13	6-9-15	8-12-18	9-14-20	11-16-22
	Pt	0.023	0.046	0.080	0.122	0.172	0.228
	Ps	0.017	0.034	0.059	0.090	0.125	0.165
	NC	-	-	27	30	38	44
2 Slot 10" Inlet	CFM	150	200	250	330	350	400
	Throw	2-4-10	3-6-12	5-8-15	7-10-17	8-13-21	8-15-24
	Pt	0.030	0.050	0.074	0.103	0.137	0.169
	Ps	0.025	0.041	0.061	0.084	0.110	0.135
	NC	-	-	22	28	35	39
3 Slot 12" Inlet	CFM	200	250	300	350	400	450
	Throw	4-5-10	5-7-13	6-8-16	7-9-19	8-11-21	9-13-23
	Pt	0.028	0.042	0.055	0.074	0.090	0.117
	Ps	0.023	0.035	0.046	0.061	0.074	0.094
	NC	-	-	20	25	29	34
4 Slot 8" Inlet	CFM	250	300	350	400	450	500
	Throw	4-5-10	5-7-13	6-8-15	7-10-19	7-11-20	8-12-22
	Pt	0.034	0.048	0.059	0.071	0.091	0.107
	Ps	0.027	0.038	0.045	0.55	0.68	0.081
	NC	-	20	23	27	30	33

SERIES 6600SQ PERFORMANCE DATA

MODEL 6600SQ 3/4" SLOT WIDTH

1 Slot 6" Inlet	CFM	50	100	150	200	250	300
	Throw	2-3-5	3-5-9	4-8-13	6-10-16	8-12-18	10-15-20
	Pt	0.013	0.039	0.083	0.145	0.219	0.319
	Ps	0.011	0.033	0.071	0.125	0.187	0.272
	NC	-	-	20	28	32	39
2 Slot 10" Inlet	CFM	100	150	200	250	300	350
	Throw	2-4-7	3-6-10	5-8-13	6-10-16	7-12-18	8-14-20
	Pt	0.015	0.033	0.068	0.087	0.124	0.172
	Ps	0.013	0.026	0.049	0.074	0.105	0.145
	NC	-	-	20	24	26	31
3 Slot 10" Inlet	CFM	150	200	250	300	350	400
	Throw	3-4-9	4-5-12	5-7-15	6-9-17	7-11-19	8-13-22
	Pt	0.023	0.040	0.051	0.078	0.117	0.149
	Ps	0.018	0.031	0.048	0.059	0.090	0.115
	NC	-	-	22	25	28	32
4 Slot 12" Inlet	CFM	200	250	300	350	400	450
	Throw	3-4-8	4-5-11	6-9-15	7-10-18	8-11-20	8-13-22
	Pt	0.025	0.038	0.064	0.075	0.092	0.117
	Ps	0.021	0.031	0.044	0.062	0.075	0.094
	NC	-	-	-	22	25	28

SERIES 6600SQ PERFORMANCE DATA

MODEL 6600SQ 1/2" SLOT WIDTH

1 Slot 6" Inlet	CFM	50	100	150	175	200	225
	Throw	4-6-8	6-10-15	8-13-19	12-17-22	15-20-29	18-24-35
	Pt	0.028	0.102	0.227	0.302	0.37	0.42
	Ps	0.023	0.086	0.19	0.251	0.305	0.42
	NC	-	27	35	41	48	52
2 Slot 8" Inlet	CFM	75	125	150	200	250	275
	Throw	3-5-7	4-7-10	5-8-12	7-10-15	9-3-19	11-18-22
	Pt	0.034	0.059	0.122	0.021	0.312	0.39
	Ps	0.03	0.051	0.11	0.18	0.28	0.35
	NC	-	-	24	29	38	45
3 Slot 8" Inlet	CFM	100	150	200	225	250	300
	Throw	2-4-5	3-6-7	5-8-11	6-9-13	7-10-15	9-12-18
	Pt	0.042	0.088	0.146	0.187	0.222	0.312
	Ps	0.036	0.076	0.125	0.16	0.19	0.265
	NC	-	-	21	27	35	43
4 Slot 10" Inlet	CFM	150	200	250	275	300	350
	Throw	3-5-6	5-7-8	7-10-12	8-11-14	9-13-17	11-15-21
	Pt	0.061	0.103	0.153	0.191	0.209	0.282
	Ps	0.056	0.094	0.14	0.175	0.19	0.255
	NC	-	22	28	32	37	40

PERFORMANCE NOTES FOR SERIES 6600SQ

All data is tested in accordance with ANSI/ASHRAE 70-2006.

DEFINITION OF UNITS

CFM Cubic Feet per Minute (air)

Horizontal throw Throw distance in feet at terminal velocities of 150, 100 and 50fpm.

NC Noise criterion, sound pressure level. NC ratings are based on sound power level (Lw) re: 10^{-12} watts minus a 10 dB room attenuation in all octave bands

Ps Static pressure = $P_t - P_v$ (inches of water column)

Pt Total pressure (inches of water column)

Pv Velocity pressure (inches of water column)

fpm Velocity of air stream in Feet per Minute