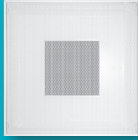




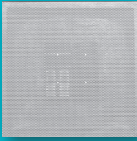

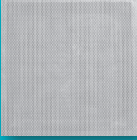



	<p><b>6100, 6150 56100, 56150</b> These perforated supply ceiling diffusers feature a neck mounted rotatable core with either a round or square neck. Aluminum or steel perforated face is available.</p>		<p><b>6490, 56490</b> These perforated ceiling returns feature a square neck. Aluminum or steel perforated face is available.</p>
	<p><b>6200, 56200 6200FR, 6290F</b> These perforated supply, ceiling diffusers feature neck mounted curved blades with a square neck. Aluminum or steel perforated face is available. Fire rated or filter return variations available.</p>		<p><b>6600, 56600, 6600FR</b> These perforated supply ceiling diffusers feature face mounted deflectors with a round neck. Aluminum or steel perforated face is available. A fire rated variation is also available.</p>
	<p><b>6500, 56500 6500FR, 6590F</b> These perforated supply, ceiling diffusers feature neck mounted curved blades with a round neck. Aluminum or steel perforated face is available. Fire rated supply and return variations available.</p>		<p><b>6690, 56690</b> These perforated ceiling returns feature a round neck. Aluminum or steel perforated face is available.</p>
	<p><b>6300</b> This perforated supply, ceiling diffuser features face mounted deflectors and a prescored fiberglass backpan for field cutting. Available in steel construction only.</p>		<p><b>6790, 56790</b> These aluminum or steel perforated screen ceiling panels with no backpan are great for non-ducted return or exhaust applications.</p>
	<p><b>6390</b> This perforated return features a prescored fiberglass backpan for field cutting. Available in steel construction only.</p>		<p><b>1100, 51100</b> These architectural, perforated, supply ceiling diffusers feature neck mounted curved blades with a square or rectangular neck. Available in steel or aluminum construction. A metric version is also available.</p>
	<p><b>6400, 56400, 6400FR</b> These perforated supply ceiling diffusers feature face mounted deflectors with a square neck. Aluminum or steel perforated face as well as a fire rated variations are available.</p>		<p><b>1190, 51190</b> These architectural, perforated, ceiling returns feature a square or rectangular neck. Available in steel or aluminum construction.</p>

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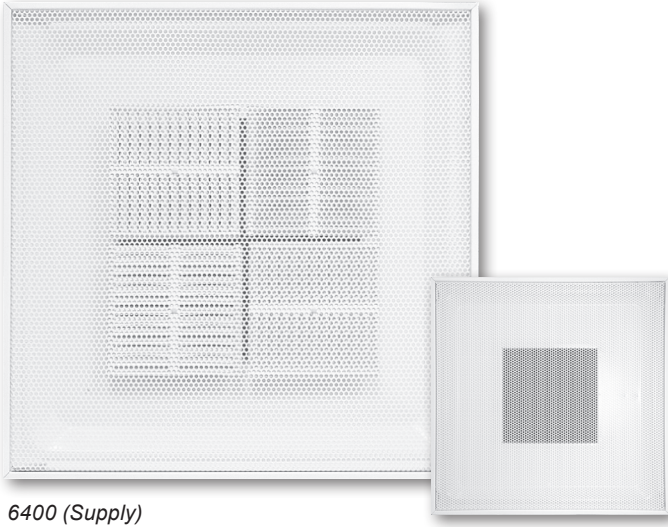
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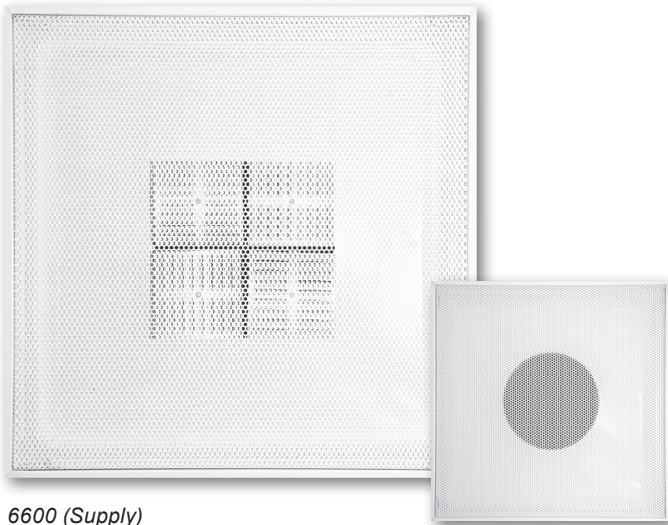
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6400 (Supply)

6490 (Return)



6600 (Supply)

6690 (Return)

**Introduction: 6400, 6600 Series**

The 6400/6600 series perforated diffusers uses modular air pattern controllers mounted to the backside of the perforated face, which are factory set for 4-way air pattern. They are field adjustable for 1, 2, or 3-way pattern or may be removed for down blow without reducing the core area. The 6400/6600 series diffusers exhibit typical isothermal throws of 12' to 17' for 4-way air distribution and 21' to 30' for 1-way air distribution. The modular capability makes the 6400/6600 ideal for installations with changing air pattern requirements such as tenant lease spaces. Matching returns are the 6490 and 6690 series.

**MODELS**

- 6400 - Steel, Square Neck Supply Diffuser
- 6490 - Steel, Square Neck Return Diffuser
- 56400 - Perforated Aluminum with Steel Backpan, Square Neck Supply Diffuser
- 56490 - Perforated Aluminum with Steel Backpan, Square Neck Return Diffuser
- 6400FR - Steel, Fire Rated, Square Neck Supply Diffuser
- 6600 - Steel, Round Neck Supply Diffuser
- 6690 - Steel, Round Neck Return Diffuser
- 56600 - Perforated Aluminum with Steel Backpan, Round Neck Supply Diffuser
- 56690 - Perforated Aluminum with Steel Backpan, Round Neck Return Diffuser
- 6600FR - Steel, Fire Rated, Round Neck Supply Diffuser

**FEATURES**

- Field adjustable 1, 2, 3, or 4-way blow patterns.
- Great choice for installations with changing air pattern requirements.
- Removable perforated face for easy cleaning.

**PANEL SIZES**

- 12"x12"
- 16"x16"
- 20"x20"
- 12"x24"
- 24"x24"
- 24"x48"

**ACCESSORIES**

- Optional Opposed Blade Damper (Model OBDFA)
- Optional Round Dampers
- Optional Insulated Backpan

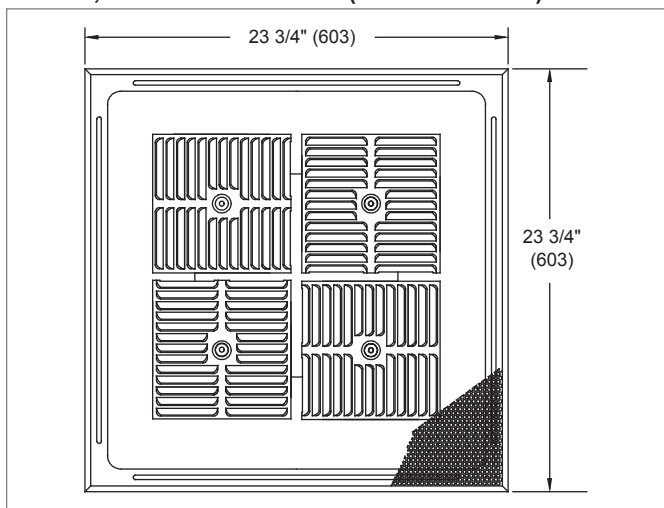
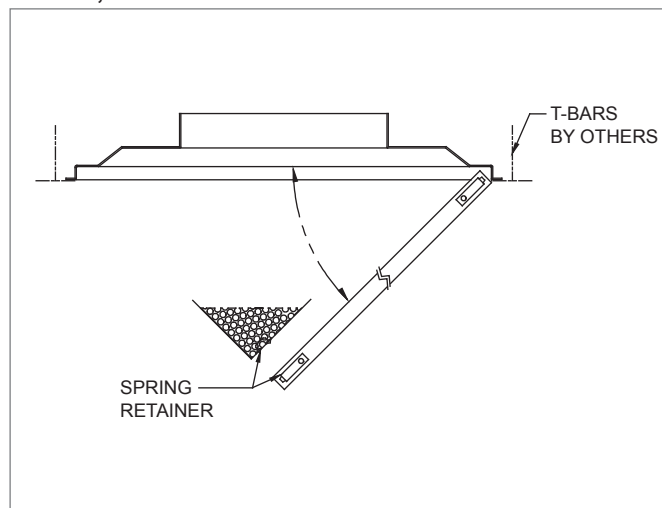
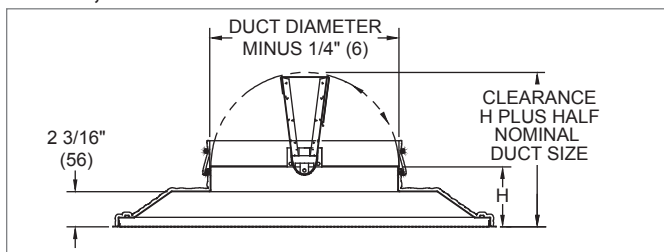
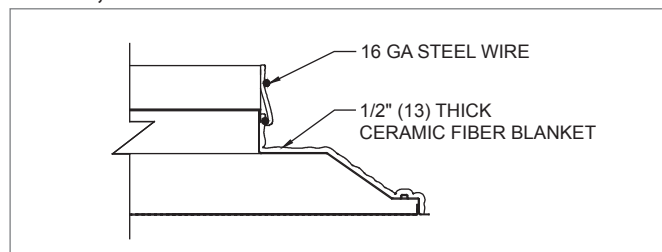
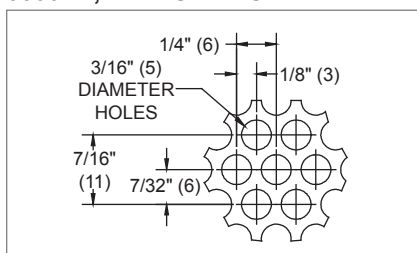
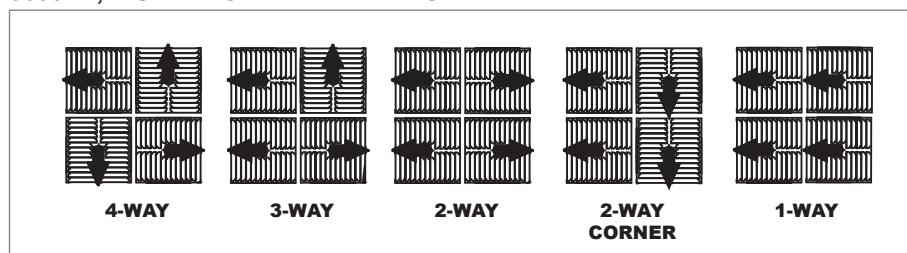
**FINISHES**

- Standard finish is #44 British White.
- Optional finishes available.

## 6600FR (Fire Rated Supply) Dimensional Information

The 6600FR offers the safety of fire rated performance with the proven 6600 series diffuser. It is intended for use with Lay-in T-Bar application involving fire rated ceiling designs. It combines this flexibility with all of the features of the standard 6600 and is available exclusively in steel.

6600FR comes standard as a UL 263 classified assembly which incorporates a 3-hour rated fire damper and a 1/2" thick ceramic fiber blanket.


**6600FR, SUPPLY FACE VIEW (24"x24" PANEL)**

**6600FR, HINGE DETAIL**

**6600FR, CROSS SECTION**

**6600FR, FIRE BLANKET DETAIL**

**6600FR, PERFORATION DETAIL**

**6600FR, DISCHARGE AIR PATTERNS**

**6600FR, AVAILABLE INLET SIZES**

	INLET SIZES	H
<b>NOMINAL PANEL</b> <b>24" x 24"</b> <b>(610 x 610)</b>	6" (152)	3 1/4" (83)
	8" (203)	
	10" (254)	
	12" (305)	3 3/4" (95)
	14" (356)	

NOTE: Dimensions in parentheses are mm.

PERFORATED FACE DIFFUSERS

6600FR

**6600, 56600 (Supply) Performance Data: Horizontal Throw**
**IP/METRIC DATA: 6600, 56600, 24"x24" PANEL, 4-WAY (NO DAMPER)**

	IP Data					NC	Metric Data					Octave Band, dB						
	Neck Vel	Air Flow	Ps	Pt	4-Way Throw		Neck L/s	Air Flow	Ps	Pt	4-Way Throw	2	3	4	5	6	7	
	FPM	CFM	"WG	"WG	ft		m/s	L/s	Pa	Pa	m							
6"	300	59	0.010	0.016	1 - 2 - 3	-	1.52	28	2.6	4.0	0.2 - 0.5 - 1.1	-	-	-	-	-	-	
	400	78	0.018	0.028	1 - 2 - 5	-	2.03	37	4.6	7.0	0.4 - 0.7 - 1.4	10	14	16	13	8	-	
	500	98	0.029	0.044	2 - 3 - 6	-	2.54	46	7.1	11.0	0.6 - 0.9 - 1.8	17	21	23	20	15	10	
	600	118	0.041	0.064	2 - 3 - 7	16	3.05	56	10.3	15.8	0.7 - 1.1 - 2.1	23	27	29	26	21	16	
	700	137	0.056	0.087	3 - 4 - 8	21	3.56	65	14.0	21.6	0.8 - 1.2 - 2.5	28	32	34	31	26	21	
	800	157	0.073	0.113	3 - 5 - 9	25	4.06	74	18.2	28.2	0.9 - 1.4 - 2.8	32	36	38	35	30	25	
	900	177	0.093	0.143	3 - 5 - 10	29	4.57	83	23.1	35.7	1.1 - 1.6 - 3.1	36	40	42	39	34	29	
	1000	196	0.114	0.177	4 - 6 - 11	32	5.08	93	28.5	44.0	1.2 - 1.8 - 3.3	39	43	45	42	37	32	
	1100	216	0.139	0.214	4 - 6 - 11	35	5.59	102	34.5	53.3	1.3 - 1.9 - 3.5	42	46	48	45	40	35	
8"	300	105	0.012	0.018	1 - 2 - 5	-	1.52	49	3.0	4.4	0.3 - 0.6 - 1.4	-	-	-	-	-	-	
	400	140	0.022	0.032	2 - 3 - 6	-	2.03	66	5.4	7.8	0.5 - 0.9 - 1.9	16	20	22	19	14	-	
	500	174	0.034	0.049	3 - 4 - 8	16	2.54	82	8.4	12.3	0.8 - 1.2 - 2.3	23	27	29	26	21	16	
	600	209	0.048	0.071	3 - 5 - 9	22	3.05	99	12.1	17.7	0.9 - 1.4 - 2.8	29	33	35	32	27	22	
	700	244	0.066	0.097	4 - 5 - 11	27	3.56	115	16.4	24.0	1.1 - 1.6 - 3.3	34	38	40	37	32	27	
	800	279	0.086	0.126	4 - 6 - 12	31	4.06	132	21.5	31.4	1.2 - 1.9 - 3.7	38	42	44	41	36	31	
	900	314	0.109	0.160	5 - 7 - 14	35	4.57	148	27.2	39.7	1.4 - 2.1 - 4.2	42	46	48	45	40	35	
	1000	349	0.135	0.197	5 - 8 - 15	38	5.08	165	33.5	49.0	1.6 - 2.3 - 4.4	45	49	51	48	43	38	
	1100	384	0.163	0.238	6 - 8 - 15	41	5.59	181	40.6	59.3	1.7 - 2.6 - 4.6	48	52	54	51	46	41	
10"	200	109	0.006	0.009	1 - 1 - 4	-	1.02	51	1.6	2.2	0.2 - 0.4 - 1.2	-	-	-	-	-	-	
	300	164	0.014	0.020	1 - 3 - 6	-	1.52	77	3.6	5.0	0.4 - 0.8 - 1.8	12	16	18	15	10	-	
	400	218	0.026	0.036	2 - 4 - 8	14	2.03	103	6.4	8.9	0.6 - 1.2 - 2.3	21	25	27	24	19	14	
	500	273	0.040	0.056	3 - 5 - 10	21	2.54	129	10.0	13.9	1.0 - 1.5 - 2.9	28	32	34	31	26	21	
	600	327	0.058	0.080	4 - 6 - 12	27	3.05	154	14.4	20.0	1.2 - 1.8 - 3.5	34	38	40	37	32	27	
	700	382	0.079	0.109	4 - 7 - 13	32	3.56	180	19.6	27.2	1.4 - 2.0 - 4.1	39	43	45	42	37	32	
	800	436	0.103	0.143	5 - 8 - 15	36	4.06	206	25.6	35.5	1.6 - 2.3 - 4.7	43	47	49	46	41	36	
	900	491	0.130	0.181	6 - 9 - 17	40	4.57	231	32.4	45.0	1.8 - 2.6 - 5.2	47	51	53	50	45	40	
	950	518	0.145	0.201	6 - 9 - 18	41	4.83	244	36.1	50.1	1.8 - 2.8 - 5.4	48	52	54	51	46	41	
12"	100	78	0.002	0.002	0 - 0 - 1	-	0.51	37	0.4	0.6	0.0 - 0.1 - 0.4	-	-	-	-	-	-	
	200	157	0.007	0.009	1 - 1 - 5	-	1.02	74	1.7	2.4	0.2 - 0.4 - 1.4	-	-	-	-	-	-	
	300	235	0.016	0.021	1 - 3 - 7	-	1.52	111	3.9	5.3	0.4 - 1.0 - 2.1	15	19	21	18	13	-	
	400	314	0.028	0.038	3 - 5 - 9	18	2.03	148	6.9	9.4	0.8 - 1.4 - 2.8	25	29	31	28	23	18	
	450	353	0.035	0.048	3 - 5 - 10	21	2.29	167	8.8	11.9	1.0 - 1.6 - 3.2	28	32	34	31	26	21	
	500	392	0.044	0.059	4 - 6 - 12	25	2.54	185	10.8	14.7	1.2 - 1.8 - 3.5	32	36	38	35	30	25	
	600	471	0.063	0.085	5 - 7 - 14	30	3.05	222	15.6	21.2	1.4 - 2.1 - 4.2	37	41	43	40	35	30	
	700	549	0.085	0.116	5 - 8 - 16	35	3.56	259	21.2	28.8	1.6 - 2.5 - 4.9	42	46	48	45	40	35	
	800	628	0.111	0.151	6 - 9 - 18	40	4.06	296	27.7	37.7	1.9 - 2.8 - 5.6	47	51	53	50	45	40	
14"	100	107	0.003	0.003	0 - 0 - 2	-	0.51	50	0.6	0.8	0.1 - 0.1 - 0.5	-	-	-	-	-	-	
	200	214	0.010	0.013	1 - 2 - 5	-	1.02	101	2.6	3.2	0.2 - 0.5 - 1.6	-	-	-	-	-	-	
	300	320	0.023	0.029	2 - 4 - 8	12	1.52	151	5.8	7.2	0.5 - 1.1 - 2.5	19	23	25	22	17	12	
	400	427	0.042	0.051	3 - 5 - 11	21	2.03	202	10.3	12.8	0.9 - 1.6 - 3.3	28	32	34	31	26	21	
	450	481	0.053	0.065	4 - 6 - 12	24	2.29	227	13.1	16.2	1.1 - 1.8 - 3.7	31	35	37	34	29	24	
	500	534	0.065	0.080	4 - 7 - 13	28	2.54	252	16.1	20.0	1.4 - 2.0 - 4.1	35	39	41	38	33	28	
	600	641	0.093	0.116	5 - 8 - 16	34	3.05	302	23.2	28.8	1.6 - 2.5 - 4.9	41	45	47	44	39	34	
	700	748	0.127	0.158	6 - 9 - 19	38	3.56	353	31.6	39.2	1.9 - 2.9 - 5.7	45	49	51	48	43	38	
	800	855	0.166	0.206	7 - 11 - 21	43	4.06	403	41.3	51.3	2.2 - 3.3 - 6.5	50	54	56	53	48	43	
16"	100	140	0.004	0.004	0 - 0 - 2	-	0.51	66	0.9	1.0	0.1 - 0.1 - 0.6	-	-	-	-	-	-	
	200	279	0.014	0.017	1 - 2 - 6	-	1.02	132	3.6	4.2	0.3 - 0.6 - 1.9	8	12	14	11	6	-	
	300	419	0.032	0.038	2 - 4 - 9	14	1.52	198	8.0	9.4	0.6 - 1.3 - 2.8	21	25	27	24	19	14	
	400	558	0.057	0.067	3 - 6 - 12	23	2.03	263	14.3	16.7	1.0 - 1.9 - 3.7	30	34	36	33	28	23	
	450	628	0.072	0.085	4 - 7 - 14	27	2.29	296	18.0	21.2	1.3 - 2.1 - 4.2	34	38	40	37	32	27	
	500	698	0.089	0.105	5 - 8 - 15	31	2.54	329	22.3	26.2	1.6 - 2.3 - 4.7	38	42	44	41	36	31	
	550	767	0.108	0.127	6 - 8 - 17	34	2.79	362	26.9	31.6	1.7 - 2.6 - 5.1	41	45	47	44	39	34	
	600	837	0.129	0.151	6 - 9 - 18	36	3.05	395	32.1	37.7	1.9 - 2.8 - 5.6	43	47	49	46	41	36	
	700	977	0.175	0.206	7 - 11 - 21	41	3.56	461	43.7	51.3	2.2 - 3.3 - 6.5	48	52	54	51	46	41	

PERFORATED FACE DIFFUSERS

6600 - 56600

© KRUEGER 2012 NOTE: See page C1-85 for notes.

**6600, 56600 (Supply) Performance Data: Horizontal Throw**

IP/METRIC DATA: 6600, 56600, 24"x24" PANEL, 1 - 3-WAY (NO DAMPER)

	IP Data					Metric Data				
	Neck Vel	Air Flow	1-Way Throw	2-Way Throw	3-Way Throw	Neck Vel	Air Flow	1-Way Throw	2-Way Throw	3-Way Throw
	FPM	CFM	ft	ft	ft	m/s	L/s	m	m	m
6"	300	59	1 - 2 - 7	1 - 2 - 5	1 - 2 - 5	1.52	28	0.3 - 0.6 - 2.2	0.3 - 0.6 - 1.6	0.3 - 0.7 - 1.4
	400	78	2 - 4 - 10	2 - 4 - 7	2 - 3 - 6	2.03	37	0.5 - 1.1 - 3.0	0.5 - 1.1 - 2.2	0.6 - 0.9 - 1.8
	500	98	2 - 6 - 12	2 - 4 - 9	3 - 4 - 8	2.54	46	0.7 - 1.7 - 3.7	0.7 - 1.3 - 2.7	0.8 - 1.1 - 2.3
	600	118	4 - 7 - 15	4 - 5 - 11	3 - 5 - 9	3.05	56	1.1 - 2.2 - 4.4	1.1 - 1.6 - 3.2	0.9 - 1.4 - 2.7
	700	137	5 - 9 - 17	4 - 6 - 12	4 - 5 - 11	3.56	65	1.5 - 2.6 - 5.0	1.3 - 1.9 - 3.8	1.1 - 1.6 - 3.2
	800	157	6 - 10 - 18	5 - 7 - 14	4 - 6 - 12	4.06	74	1.9 - 3.0 - 5.4	1.4 - 2.2 - 4.3	1.2 - 1.8 - 3.7
	900	177	7 - 11 - 19	5 - 8 - 16	5 - 7 - 13	4.57	83	2.2 - 3.3 - 5.7	1.6 - 2.4 - 4.8	1.4 - 2.1 - 4.0
	1000	196	8 - 12 - 20	6 - 9 - 17	5 - 8 - 14	5.08	93	2.5 - 3.7 - 6.0	1.8 - 2.7 - 5.1	1.5 - 2.3 - 4.2
	1100	216	9 - 13 - 21	6 - 10 - 18	6 - 8 - 15	5.59	102	2.7 - 4.1 - 6.3	2.0 - 3.0 - 5.4	1.7 - 2.5 - 4.4
8"	300	105	1 - 3 - 10	1 - 3 - 7	1 - 3 - 6	1.52	49	0.4 - 0.8 - 3.0	0.4 - 0.8 - 2.2	0.4 - 0.9 - 1.8
	400	140	2 - 5 - 13	2 - 5 - 9	3 - 4 - 8	2.03	66	0.6 - 1.4 - 3.9	0.6 - 1.4 - 2.9	0.8 - 1.2 - 2.4
	500	174	3 - 7 - 16	3 - 6 - 12	3 - 5 - 10	2.54	82	1.0 - 2.2 - 4.9	1.0 - 1.8 - 3.6	1.0 - 1.5 - 3.1
	600	209	5 - 10 - 19	5 - 7 - 14	4 - 6 - 12	3.05	99	1.4 - 3.0 - 5.9	1.4 - 2.2 - 4.3	1.2 - 1.8 - 3.7
	700	244	6 - 11 - 22	6 - 8 - 17	5 - 7 - 14	3.56	115	2.0 - 3.5 - 6.7	1.7 - 2.5 - 5.0	1.4 - 2.1 - 4.3
	800	279	8 - 13 - 24	6 - 9 - 19	5 - 8 - 16	4.06	132	2.6 - 3.9 - 7.2	1.9 - 2.9 - 5.7	1.6 - 2.4 - 4.9
	900	314	10 - 15 - 25	7 - 11 - 21	6 - 9 - 18	4.57	148	3.0 - 4.4 - 7.6	2.2 - 3.2 - 6.5	1.8 - 2.7 - 5.3
	1000	349	11 - 16 - 26	8 - 12 - 22	7 - 10 - 18	5.08	165	3.3 - 4.9 - 8.0	2.4 - 3.6 - 6.8	2.0 - 3.1 - 5.6
1100	384	12 - 18 - 28	9 - 13 - 24	7 - 11 - 19	5.59	181	3.6 - 5.4 - 8.4	2.6 - 3.9 - 7.2	2.2 - 3.4 - 5.9	
10"	200	109	1 - 1 - 6	1 - 1 - 6	1 - 2 - 5	1.02	51	0.2 - 0.4 - 1.8	0.2 - 0.4 - 1.8	0.2 - 0.5 - 1.5
	300	164	1 - 3 - 12	1 - 3 - 9	2 - 4 - 8	1.52	77	0.4 - 1.0 - 3.7	0.4 - 1.0 - 2.7	0.5 - 1.1 - 2.3
	400	218	3 - 6 - 16	3 - 6 - 12	3 - 5 - 10	2.03	103	0.8 - 1.8 - 4.9	0.8 - 1.8 - 3.6	1.0 - 1.5 - 3.1
	500	273	4 - 9 - 20	4 - 7 - 15	4 - 6 - 13	2.54	129	1.2 - 2.8 - 6.2	1.2 - 2.2 - 4.5	1.3 - 1.9 - 3.8
	600	327	6 - 12 - 24	6 - 9 - 18	5 - 8 - 15	3.05	154	1.8 - 3.7 - 7.4	1.8 - 2.7 - 5.4	1.5 - 2.3 - 4.6
	700	382	8 - 14 - 28	7 - 10 - 21	6 - 9 - 18	3.56	180	2.4 - 4.3 - 8.4	2.1 - 3.1 - 6.3	1.8 - 2.7 - 5.3
	800	436	10 - 16 - 30	8 - 12 - 24	7 - 10 - 20	4.06	206	3.2 - 4.9 - 9.0	2.4 - 3.6 - 7.2	2.0 - 3.1 - 6.1
	900	491	12 - 18 - 31	9 - 13 - 27	8 - 11 - 22	4.57	231	3.7 - 5.6 - 9.5	2.7 - 4.0 - 8.1	2.3 - 3.4 - 6.7
	950	518	13 - 19 - 32	9 - 14 - 27	8 - 12 - 23	4.83	244	3.9 - 5.9 - 9.8	2.8 - 4.3 - 8.3	2.4 - 3.6 - 6.8
12"	100	78	0 - 0 - 2	0 - 0 - 2	0 - 1 - 2	0.51	37	0.1 - 0.1 - 0.5	0.1 - 0.1 - 0.5	0.1 - 0.2 - 0.6
	200	157	1 - 2 - 7	1 - 2 - 7	1 - 2 - 6	1.02	74	0.2 - 0.5 - 2.2	0.2 - 0.5 - 2.2	0.3 - 0.6 - 1.8
	300	235	2 - 4 - 15	2 - 4 - 11	2 - 5 - 9	1.52	111	0.5 - 1.2 - 4.4	0.5 - 1.2 - 3.2	0.6 - 1.4 - 2.7
	400	314	3 - 7 - 19	3 - 7 - 14	4 - 6 - 12	2.03	148	1.0 - 2.2 - 5.9	1.0 - 2.2 - 4.3	1.1 - 1.8 - 3.7
	450	353	4 - 9 - 22	4 - 8 - 16	5 - 7 - 14	2.29	167	1.2 - 2.7 - 6.7	1.2 - 2.4 - 4.8	1.4 - 2.1 - 4.1
	500	392	5 - 11 - 24	5 - 9 - 18	5 - 8 - 15	2.54	185	1.5 - 3.4 - 7.4	1.5 - 2.7 - 5.4	1.5 - 2.3 - 4.6
	600	471	7 - 15 - 29	7 - 11 - 21	6 - 9 - 18	3.05	222	2.2 - 4.4 - 8.9	2.2 - 3.2 - 6.5	1.8 - 2.7 - 5.5
	700	549	10 - 17 - 33	8 - 12 - 25	7 - 11 - 21	3.56	259	2.9 - 5.2 - 10.1	2.5 - 3.8 - 7.5	2.1 - 3.2 - 6.4
	800	628	13 - 19 - 35	9 - 14 - 28	8 - 12 - 24	4.06	296	3.8 - 5.9 - 10.8	2.9 - 4.3 - 8.6	2.4 - 3.7 - 7.3
14"	100	107	0 - 1 - 2	0 - 1 - 2	0 - 1 - 2	0.51	50	0.1 - 0.2 - 0.6	0.1 - 0.2 - 0.6	0.1 - 0.2 - 0.8
	200	214	1 - 2 - 8	1 - 2 - 8	1 - 2 - 7	1.02	101	0.3 - 0.6 - 2.5	0.3 - 0.6 - 2.5	0.3 - 0.8 - 2.1
	300	320	2 - 5 - 17	2 - 5 - 12	2 - 5 - 11	1.52	151	0.6 - 1.4 - 5.2	0.6 - 1.4 - 3.8	0.8 - 1.6 - 3.2
	400	427	4 - 8 - 23	4 - 8 - 17	4 - 7 - 14	2.03	202	1.1 - 2.5 - 6.9	1.1 - 2.5 - 5.0	1.3 - 2.1 - 4.3
	450	481	5 - 10 - 26	5 - 9 - 19	5 - 8 - 16	2.29	227	1.4 - 3.2 - 7.8	1.4 - 2.8 - 5.7	1.6 - 2.4 - 4.8
	500	534	6 - 13 - 28	6 - 10 - 21	6 - 9 - 18	2.54	252	1.7 - 3.9 - 8.6	1.7 - 3.1 - 6.3	1.8 - 2.7 - 5.3
	600	641	8 - 17 - 34	8 - 12 - 25	7 - 11 - 21	3.05	302	2.5 - 5.2 - 10.4	2.5 - 3.8 - 7.5	2.1 - 3.2 - 6.4
	700	748	11 - 20 - 39	10 - 14 - 29	8 - 12 - 25	3.56	353	3.4 - 6.0 - 11.8	2.9 - 4.4 - 8.8	2.5 - 3.7 - 7.5
	800	855	15 - 23 - 41	11 - 17 - 33	9 - 14 - 28	4.06	403	4.5 - 6.9 - 12.6	3.4 - 5.0 - 10.1	2.8 - 4.3 - 8.5
16"	100	140	0 - 1 - 2	0 - 1 - 2	0 - 1 - 3	0.51	66	0.1 - 0.2 - 0.7	0.1 - 0.2 - 0.7	0.1 - 0.2 - 0.9
	200	279	1 - 2 - 9	1 - 2 - 9	1 - 3 - 8	1.02	132	0.3 - 0.7 - 2.9	0.3 - 0.7 - 2.9	0.4 - 0.9 - 2.4
	300	419	2 - 5 - 19	2 - 5 - 14	3 - 6 - 12	1.52	198	0.7 - 1.6 - 5.9	0.7 - 1.6 - 4.3	0.9 - 1.8 - 3.7
	400	558	4 - 9 - 26	4 - 9 - 19	5 - 8 - 16	2.03	263	1.3 - 2.9 - 7.9	1.3 - 2.9 - 5.7	1.5 - 2.4 - 4.9
	450	628	5 - 12 - 29	5 - 11 - 21	6 - 9 - 18	2.29	296	1.6 - 3.6 - 8.9	1.6 - 3.2 - 6.5	1.8 - 2.7 - 5.5
	500	698	7 - 15 - 32	7 - 12 - 24	7 - 10 - 20	2.54	329	2.0 - 4.5 - 9.9	2.0 - 3.6 - 7.2	2.0 - 3.1 - 6.1
	550	767	8 - 18 - 36	8 - 13 - 26	7 - 11 - 22	2.79	362	2.4 - 5.4 - 10.9	2.4 - 3.9 - 7.9	2.2 - 3.4 - 6.7
	600	837	9 - 19 - 39	9 - 14 - 28	8 - 12 - 24	3.05	395	2.9 - 5.9 - 11.8	2.9 - 4.3 - 8.6	2.4 - 3.7 - 7.3
700	977	13 - 23 - 44	11 - 17 - 33	9 - 14 - 28	3.56	461	3.9 - 6.9 - 13.4	3.4 - 5.0 - 10.1	2.8 - 4.3 - 8.5	

NOTE: See page C1-86 for notes.

PERFORATED FACE DIFFUSERS

6600 - 56600

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**6600FR (Fire Rated Supply) Suggested Specification & Configuration**

**6600FR**

The perforated face fire rated supply diffuser shall be Krueger model 6600FR. The diffuser must be UL classified fire rated ceiling diffuser assembly listed in Underwriters Laboratories Fire Resistance Directory. The diffuser shall be tested in accordance with UL 263 and must meet NFPA 90 requirements. The diffuser must be able to operate in 3-hour fire-rated, exposed grid suspended ceiling. The diffusers shall have a perforated face with 3/16" diameter holes on 1/4" centers resulting in a 51% free area. The diffuser backpan shall be constructed of heavy gage steel and provide a round neck.

The diffuser shall have four separate pattern deflectors mounted on the back of the perforated face and be field adjustable to provide vertical or 1, 2, 3, or 4-way horizontal projection of air in to the room. The perforated face must be easily removable from the backpan for access to the pattern deflectors for adjustments or removal and access to the damper.

**PERFORMANCE**

The manufacturer shall provide published (printed or electronic) performance data for the diffuser. Performance data shall include 2 - 7 octave band sound power levels. The diffuser shall be tested in accordance to the data standards at the time of product introduction or ANSI/ASHRAE Standard 70.

**FINISH**

The paint finish shall be #44 British White and be an anodic acrylic paint, baked at 315°F for 30 minutes. The paint thickness shall be 0.8 – 1.0 mils, gloss at 60° per ASTM D523-89 of 50 – 85%, pencil hardness per ASTM D3363-92A of HB – H, crosshatch adhesion per ASTM D3359-83 of 4B – 5B, impact per ASTM D2794-93 of direct impact >100 in/lb and reverse impact >80 in/lb, salt spray per ASTM B117-9048 of 96 hours, humidity per ASTM D2247-92 of >500 hours and water soak per ASTM D870-92 of 250 hours.

- 1. SERIES: (XXXXXX)**  
6600FR - Round Neck, Steel Perforated Supply Diffuser with Face Mounted Deflectors, Fire Rated
- 2. PATTERN: (XX)**  
04 - 4-Way
- 3. DIMENSION 1: (XX)**  
6", 8", 10", 12", or 14"
- 4. FRAME: (XXX)**  
F23 - Lay-in T-Bar
- 5. PANEL: (XX)x(XX)**  
24"x24"
- 6. FINISH: (XX)**  
01 - Mill  
03 - Black Backpan with British White Face  
10 - Alumican  
35 - Black  
44 - British White



PERFORATED FACE DIFFUSERS

6600FR

**SAMPLE CONFIGURATION: 6600FR - 04 - 12 - F23 - 24x24 - 44**