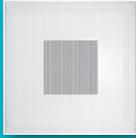


	<p>6100, 6150 56100, 56150 These perforated supply ceiling diffusers feature a neck mounted rotatable core with either a round or square neck. Aluminum or steel perforated face is available.</p>		<p>6490, 56490 These perforated ceiling returns feature a square neck. Aluminum or steel perforated face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

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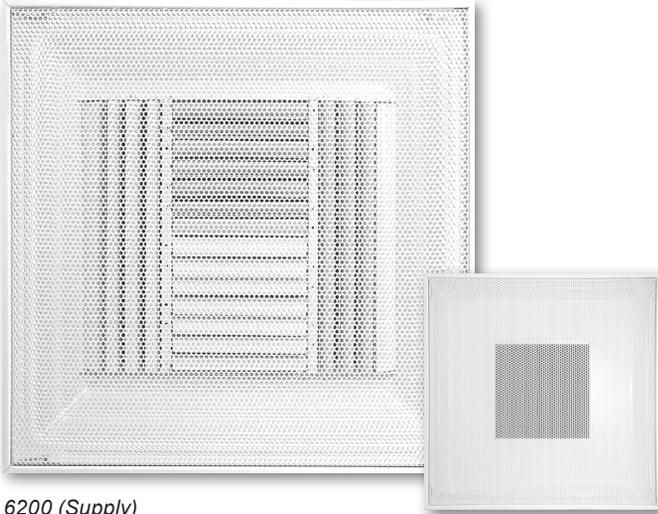
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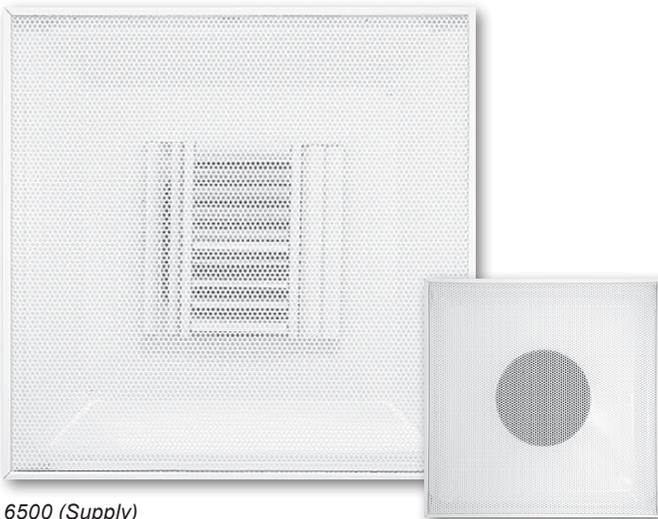
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6200 (Supply)

6490 (Return)
See page C1-52 for more information.



6500 (Supply)

6690 (Return)
See page C1-52 for more information.

Introduction: 6200, 6500 Series

The 6200/6500 series perforated diffusers use blade-type pattern deflectors mounted on the backpan and are available in pre-selected 1, 2, 3, or 4-way blow patterns. Individually adjustable curved blades allow field adjustment of the air pattern in each direction, which may be field set to any position between a vertical throw and a tight ceiling, long throw pattern. The pattern deflectors on the backpan create aspiration of secondary air through the perforated face where it is mixed with primary air that is then discharged through the perforated face. This aspiration and mixing effect reduces the discharge air temperature to avoid cold air drafts. Additionally, it removes smudging material from the secondary air by impingement on the perforated face. Ceiling smudging of adjacent, hard to clean ceiling surfaces is greatly reduced. The 6200/6500 series diffusers exhibit typical isothermal throws of 8' to 20' for 4-way air distribution and 21' to 50' for 1-way air distribution making this diffuser an excellent choice for irregular room shapes. Matching returns are the 6490 and 6690 series.

MODELS

- 6200 - Steel Construction, Square Neck, Supply Diffuser
- 6200FR - Fire Rated, Steel Construction, Square Neck, Supply Diffuser
- 6290F - Steel Construction, Designed for Standard 20"x20"x1" Filter (By Others), Square Neck, Filter Return
- 6290FR - Fire Rated, Steel Construction, Square Neck Return
- 56200 - Aluminum Perforation with Steel Backpan, Square Neck, Supply Diffuser
- 6500 - Steel Construction, Round Neck, Supply Diffuser
- 6500FR - Fire Rated, Steel Construction, Round Neck, Supply Diffuser
- 56500 - Aluminum Perforation with Steel Backpan, Round Neck, Supply Diffuser
- 6590FR - Fire Rated, Steel Construction, Round Neck Return

FEATURES

- Individually adjustable curved blade pattern deflectors for horizontal to vertical throw.
- Variety of air discharge patterns available.
- Removable perforated face and core for easy cleaning.

PANEL SIZES

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

ACCESSORIES

- Optional Round Damper
- Optional Opposed Blade Damper (Model OBD)
- Optional Straightening Grid
- Optional Insulated Backpan

FINISHES

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

6200FR, 6290FR | Curved Blade, Fire Rated

6200FR, 6290FR (Fire Rated Supply/Return) Dimensional Information

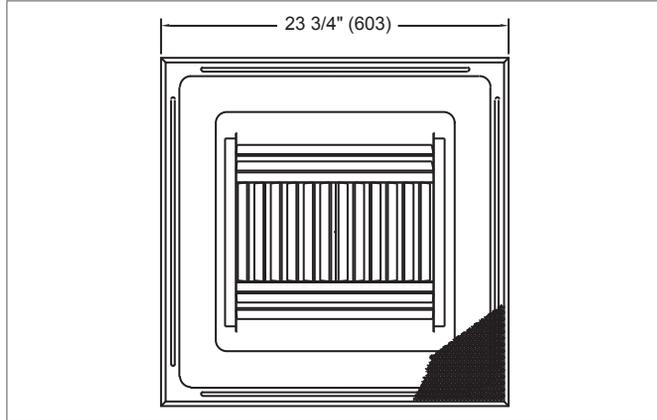
The 6200FR/6290FR offers the safety of fire rated performance with the proven 6200/6290 series diffuser. It is intended for use with Lay-in T-Bar application involving fire rated ceiling designs. It combines this flexibility with all of the features of the standard 6200/6290 and is available exclusively in steel.



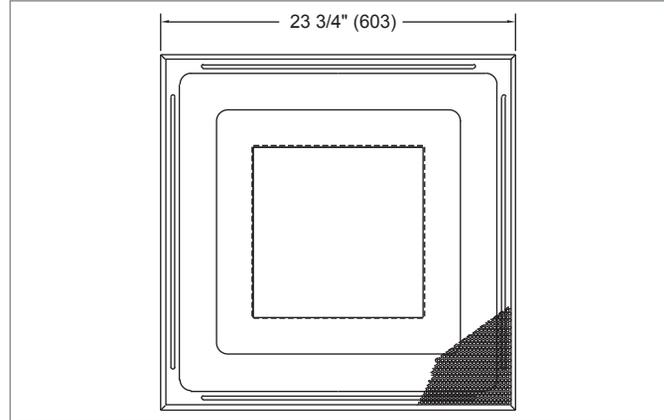
6200FR/6290FR comes standard as a UL 263 classified assembly which incorporates a 3-hour rated fire damper and a 1/2" thick ceramic fiber blanket.

PERFORATED FACE DIFFUSERS

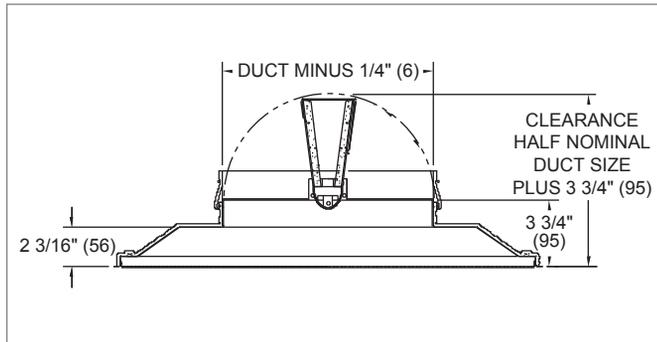
6200FR, SUPPLY FACE VIEW (24"x24" PANEL)



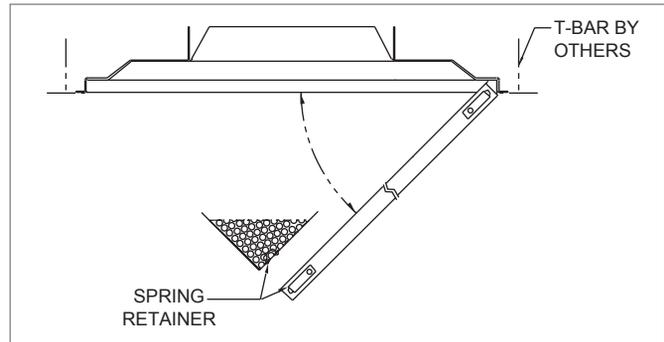
6290FR, RETURN FACE VIEW (24"x24" PANEL)



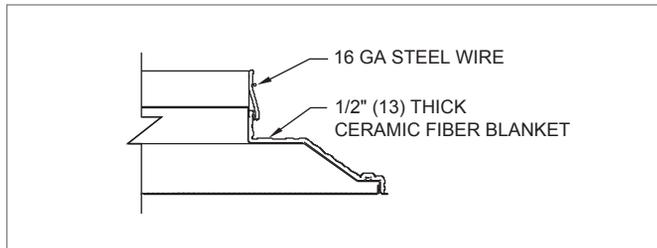
6200FR, 6290FR, CROSS SECTION



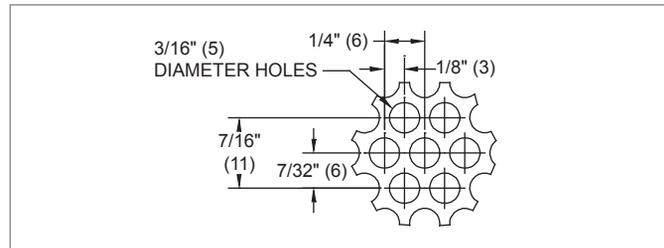
6200FR, 6290FR, HINGE DETAIL



6200FR, 6290FR, FIRE BLANKET DETAIL



6200FR, 6290FR, PERFORATION DETAIL

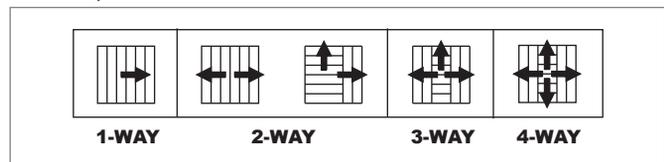


6200FR, 6290FR, AVAILABLE INLET SIZES

NOMINAL PANEL 24" x 24" (610 x 610)	INLET SIZES	
		6" x 6" (152 x 152)
	8" x 8" (203 x 203)	
	10" x 10" (254 x 254)	
	12" x 12" (305 x 305)	
	14" x 14" (356 x 356)	

NOTE: Dimensions in parentheses are mm.

6200FR, DISCHARGE AIR PATTERNS



6200FR - 6290FR

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6200, 56200 (Supply) Performance Data: Horizontal Throw

IP/METRIC DATA: 6200, 56200, 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 Vel	Air Flow	Ps	Pt	4-Way Throw							
	FPM	CFM	"WG	"WG	ft		m/s	L/s	Pa	Pa	m	2	3	4	5	6	7	
6" x 6"	300	75	0.004	0.010	1 - 2 - 6	-	1.52	35	1.0	2.4	0.3 - 0.7 - 1.8	34	25	27	15	-	-	
	400	100	0.007	0.017	2 - 4 - 8	14	2.03	47	1.8	4.3	0.5 - 1.2 - 2.4	36	30	32	22	-	-	
	500	125	0.011	0.027	3 - 5 - 10	19	2.54	59	2.8	6.7	0.8 - 1.5 - 3.0	38	33	36	28	13	-	
	600	150	0.016	0.039	4 - 6 - 11	23	3.05	71	4.0	9.6	1.2 - 1.8 - 3.2	40	36	39	32	19	-	
	700	175	0.022	0.053	5 - 7 - 11	26	3.56	83	5.5	13.1	1.4 - 2.1 - 3.5	41	38	41	36	24	13	
	800	200	0.029	0.069	5 - 8 - 12	29	4.06	94	7.2	17.1	1.6 - 2.4 - 3.7	42	40	44	39	29	18	
	900	225	0.036	0.087	6 - 9 - 13	32	4.57	106	9.1	21.6	1.8 - 2.7 - 4.0	44	42	46	42	33	21	
	1000	250	0.045	0.107	7 - 10 - 14	34	5.08	118	11.2	26.7	2.0 - 3.0 - 4.2	44	44	47	45	36	25	
1100	275	0.054	0.130	7 - 10 - 14	36	5.59	130	13.5	32.3	2.2 - 3.1 - 4.4	45	45	49	47	40	28		
8" x 8"	300	133	0.007	0.012	1 - 3 - 8	-	1.52	63	1.6	3.0	0.4 - 0.9 - 2.4	35	26	28	17	-	-	
	400	178	0.012	0.022	2 - 5 - 11	16	2.03	84	2.9	5.4	0.7 - 1.6 - 3.2	38	30	33	24	-	-	
	500	222	0.018	0.034	4 - 7 - 13	21	2.54	105	4.5	8.4	1.1 - 2.0 - 3.9	40	34	37	29	16	-	
	600	267	0.026	0.048	5 - 8 - 14	24	3.05	126	6.5	12.1	1.6 - 2.4 - 4.3	41	37	40	34	22	12	
	700	311	0.035	0.066	6 - 9 - 15	28	3.56	147	8.8	16.4	1.9 - 2.8 - 4.7	42	39	42	38	27	17	
	800	356	0.046	0.086	7 - 11 - 16	30	4.06	168	11.5	21.4	2.1 - 3.2 - 5.0	44	41	45	41	32	21	
	900	400	0.058	0.109	8 - 12 - 17	33	4.57	189	14.6	27.1	2.4 - 3.6 - 5.3	45	43	47	44	36	25	
	1000	444	0.072	0.135	9 - 13 - 18	35	5.08	210	18.0	33.5	2.7 - 3.9 - 5.6	46	44	48	46	39	28	
1100	489	0.087	0.163	10 - 14 - 19	37	5.59	231	21.7	40.5	3.0 - 4.1 - 5.8	46	46	50	49	42	31		
10" x 10"	300	208	0.010	0.015	2 - 4 - 10	-	1.52	98	2.4	3.8	0.5 - 1.1 - 3.0	36	26	29	18	-	-	
	400	278	0.017	0.027	3 - 7 - 13	17	2.03	131	4.3	6.8	0.9 - 2.0 - 4.0	38	31	34	25	-	-	
	500	347	0.027	0.042	5 - 8 - 16	22	2.54	164	6.7	10.6	1.4 - 2.5 - 4.9	40	34	37	30	18	-	
	600	417	0.039	0.061	7 - 10 - 18	25	3.05	197	9.6	15.2	2.0 - 3.0 - 5.4	42	37	40	35	24	14	
	700	486	0.053	0.083	8 - 12 - 19	29	3.56	229	13.1	20.7	2.4 - 3.5 - 5.8	43	39	43	39	29	19	
	800	556	0.069	0.109	9 - 13 - 20	31	4.06	262	17.1	27.0	2.7 - 4.0 - 6.2	45	42	45	42	34	24	
	900	625	0.087	0.137	10 - 15 - 22	34	4.57	295	21.6	34.2	3.0 - 4.5 - 6.6	46	43	47	45	38	28	
	1000	694	0.107	0.170	11 - 16 - 23	36	5.08	328	26.7	42.2	3.4 - 4.9 - 7.0	46	45	49	48	41	31	
1100	764	0.130	0.205	12 - 17 - 24	38	5.59	361	32.3	51.1	3.7 - 5.2 - 7.3	47	46	51	50	44	34		
12" x 12"	300	300	0.014	0.019	2 - 4 - 12	12	1.52	142	3.4	4.8	0.6 - 1.4 - 3.6	37	27	29	19	-	-	
	400	400	0.024	0.034	4 - 8 - 16	18	2.03	189	6.0	8.5	1.1 - 2.4 - 4.8	39	31	34	26	12	-	
	500	500	0.038	0.053	5 - 10 - 19	22	2.54	236	9.3	13.2	1.7 - 3.0 - 5.9	41	35	38	31	19	-	
	600	600	0.054	0.076	8 - 12 - 21	26	3.05	283	13.5	19.0	2.4 - 3.6 - 6.5	43	38	41	36	26	16	
	700	700	0.074	0.104	9 - 14 - 23	29	3.56	330	18.3	25.9	2.8 - 4.2 - 7.0	44	40	44	40	31	21	
	800	800	0.096	0.136	11 - 16 - 25	32	4.06	378	23.9	33.9	3.2 - 4.8 - 7.5	45	42	46	43	35	26	
	900	900	0.122	0.172	12 - 18 - 26	35	4.57	425	30.3	42.9	3.6 - 5.4 - 7.9	46	44	48	46	39	30	
	1000	1000	0.150	0.212	13 - 19 - 27	37	5.08	472	37.4	52.9	4.0 - 5.9 - 8.4	47	45	50	49	43	33	
1100	1100	0.182	0.257	15 - 20 - 29	39	5.59	519	45.2	64.0	4.4 - 6.2 - 8.8	48	47	52	51	46	36		
14" x 14"	300	408	0.018	0.024	2 - 5 - 14	12	1.52	193	4.5	5.9	0.7 - 1.6 - 4.2	37	27	30	20	-	-	
	400	544	0.032	0.042	4 - 9 - 19	18	2.03	257	8.0	10.5	1.2 - 2.8 - 5.6	40	32	35	27	13	-	
	500	681	0.050	0.066	6 - 12 - 23	23	2.54	321	12.5	16.4	1.9 - 3.5 - 6.9	42	35	39	32	21	12	
	600	817	0.072	0.095	9 - 14 - 25	27	3.05	385	18.0	23.6	2.8 - 4.2 - 7.6	43	38	42	37	27	18	
	700	953	0.098	0.129	11 - 16 - 27	30	3.56	450	24.5	32.1	3.3 - 4.9 - 8.2	45	40	44	41	32	23	
	800	1089	0.129	0.168	12 - 19 - 29	33	4.06	514	32.0	41.9	3.8 - 5.6 - 8.7	46	42	47	44	37	28	
	900	1225	0.163	0.213	14 - 21 - 30	36	4.57	578	40.5	53.1	4.2 - 6.3 - 9.2	47	44	49	47	41	31	
	1000	1361	0.201	0.263	15 - 23 - 32	38	5.08	642	50.0	65.5	4.7 - 6.9 - 9.7	48	46	50	49	44	35	
1100	1497	0.243	0.318	17 - 24 - 34	40	5.59	707	60.5	79.3	5.2 - 7.2 - 10.2	49	47	52	52	47	38		
16" x 16"	300	533	0.023	0.029	3 - 6 - 16	13	1.52	252	5.8	7.2	0.8 - 1.8 - 4.8	38	28	30	20	-	-	
	400	711	0.041	0.051	5 - 11 - 21	19	2.03	336	10.3	12.8	1.4 - 3.2 - 6.4	40	32	35	27	15	-	
	500	889	0.065	0.080	7 - 13 - 26	24	2.54	420	16.1	20.0	2.2 - 4.0 - 7.9	42	36	39	33	22	14	
	600	1067	0.093	0.116	11 - 16 - 28	28	3.05	503	23.2	28.8	3.2 - 4.8 - 8.6	44	38	42	37	28	20	
	700	1244	0.127	0.158	12 - 19 - 31	31	3.56	587	31.6	39.2	3.8 - 5.6 - 9.3	45	41	45	41	33	25	
	800	1422	0.166	0.206	14 - 21 - 33	34	4.06	671	41.3	51.2	4.3 - 6.4 - 10.0	46	43	47	45	38	29	
	900	1600	0.210	0.260	16 - 24 - 35	36	4.57	755	52.3	64.9	4.8 - 7.3 - 10.6	47	45	49	48	42	33	
	1000	1778	0.259	0.322	18 - 26 - 37	38	5.08	839	64.6	80.1	5.4 - 7.9 - 11.1	48	46	51	50	45	36	
1100	1956	0.314	0.389	19 - 27 - 38	40	5.59	923	78.1	96.9	5.9 - 8.3 - 11.7	49	48	53	52	48	40		
18" x 18"	300	675	0.029	0.035	3 - 7 - 18	14	1.52	319	7.3	8.7	0.9 - 2.0 - 5.4	38	28	31	21	-	-	
	400	900	0.052	0.062	5 - 12 - 24	20	2.03	425	13.0	15.5	1.6 - 3.6 - 7.3	41	32	36	28	16	-	
	500	1125	0.081	0.097	8 - 15 - 29	24	2.54	531	20.3	24.1	2.5 - 4.5 - 8.9	43	36	39	34	23	15	
	600	1350	0.117	0.140	12 - 18 - 32	28	3.05	637	29.2	34.8	3.6 - 5.4 - 9.7	44	39	43	38	29	21	
	700	1575	0.160	0.190	14 - 21 - 34	31	3.56	743	39.7	47.3	4.2 - 6.3 - 10.5	46	41	45	42	34	26	
	800	1800	0.208	0.248	16 - 24 - 37	34	4.06	850	51.9	61.8	4.8 - 7.3 - 11.2	47	43	48	45	39	31	
	900	2025	0.264	0.314	18 - 27 - 39	37	4.57	956	65.7	78.2	5.4 - 8.2 - 11.9	48	45	50	48	43	34	
	1000	2250	0.326	0.388	20 - 29 - 41	39	5.08	1062	81.1	96.6	6.0 - 8.9 - 12.5	49	47	51	51	46	38	
1100	2475	0.394	0.469	22 - 31 - 43	41	5.59	1168	98.1	116.9	6.6 - 9.3 - 13.1	50	48	53	53	50	41		

NOTE: See page C1-22 for notes.

PERFORATED FACE DIFFUSERS

6200 - 56200

6200, 56200 (Supply) Performance Data: Horizontal Throw
IP/METRIC DATA: 6200, 56200, 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" x 6"	300	75	3 - 7 - 14	3 - 6 - 11	1 - 3 - 8	1.52	35.4	1.0 - 2.2 - 4.1	0.8 - 1.7 - 3.4	0.4 - 0.9 - 2.4
	400	100	6 - 10 - 16	5 - 8 - 13	2 - 5 - 11	2.03	47.2	1.8 - 3.1 - 4.8	1.4 - 2.4 - 3.9	0.7 - 1.5 - 3.2
	500	125	9 - 12 - 18	7 - 10 - 14	3 - 7 - 12	2.54	59.0	2.6 - 3.8 - 5.3	2.0 - 3.0 - 4.4	1.1 - 2.0 - 3.7
	600	150	10 - 14 - 19	8 - 11 - 16	5 - 8 - 13	3.05	70.8	3.1 - 4.1 - 5.8	2.4 - 3.4 - 4.8	1.5 - 2.4 - 4.0
	700	175	12 - 15 - 21	9 - 12 - 17	6 - 9 - 14	3.56	82.6	3.6 - 4.5 - 6.3	2.8 - 3.6 - 5.2	1.9 - 2.8 - 4.3
	800	200	13 - 16 - 22	10 - 13 - 18	7 - 11 - 15	4.06	94.4	3.9 - 4.8 - 6.7	3.2 - 3.9 - 5.5	2.1 - 3.2 - 4.6
	900	225	14 - 17 - 23	11 - 14 - 19	8 - 11 - 16	4.57	106.2	4.1 - 5.0 - 7.1	3.4 - 4.1 - 5.8	2.4 - 3.5 - 4.9
	1000	250	14 - 18 - 25	12 - 14 - 20	9 - 12 - 17	5.08	118.0	4.3 - 5.3 - 7.5	3.6 - 4.4 - 6.2	2.7 - 3.7 - 5.2
	1100	275	15 - 18 - 26	12 - 15 - 21	10 - 13 - 18	5.59	129.8	4.6 - 5.6 - 7.9	3.7 - 4.6 - 6.5	2.9 - 3.8 - 5.4
8" x 8"	300	133	4 - 10 - 18	3 - 8 - 15	2 - 4 - 11	1.52	62.9	1.3 - 3.0 - 5.5	1.0 - 2.3 - 4.5	0.5 - 1.1 - 3.2
	400	178	8 - 14 - 21	6 - 10 - 17	3 - 7 - 14	2.03	83.9	2.4 - 4.1 - 6.3	1.8 - 3.2 - 5.2	0.9 - 2.0 - 4.3
	500	222	11 - 17 - 23	9 - 13 - 19	5 - 9 - 16	2.54	104.9	3.5 - 5.0 - 7.1	2.6 - 4.0 - 5.8	1.4 - 2.7 - 4.9
	600	267	14 - 18 - 26	10 - 15 - 21	7 - 11 - 18	3.05	125.9	4.1 - 5.5 - 7.8	3.2 - 4.5 - 6.4	2.0 - 3.2 - 5.3
	700	311	16 - 20 - 28	12 - 16 - 23	8 - 12 - 19	3.56	146.8	4.8 - 5.9 - 8.4	3.7 - 4.9 - 6.9	2.5 - 3.7 - 5.8
	800	356	17 - 21 - 30	14 - 17 - 24	9 - 14 - 20	4.06	167.8	5.2 - 6.3 - 9.0	4.2 - 5.2 - 7.3	2.8 - 4.3 - 6.2
	900	400	18 - 22 - 31	15 - 18 - 26	11 - 15 - 22	4.57	188.8	5.5 - 6.7 - 9.5	4.5 - 5.5 - 7.8	3.2 - 4.6 - 6.5
	1000	444	19 - 23 - 33	16 - 19 - 27	12 - 16 - 23	5.08	209.8	5.8 - 7.1 - 10.0	4.7 - 5.8 - 8.2	3.6 - 4.9 - 6.9
	1100	489	20 - 24 - 35	16 - 20 - 28	13 - 17 - 24	5.59	230.7	6.1 - 7.4 - 10.5	5.0 - 6.1 - 8.6	3.9 - 5.1 - 7.2
10" x 10"	300	208	5 - 12 - 23	4 - 10 - 19	2 - 5 - 13	1.52	98.3	1.7 - 3.7 - 6.9	1.3 - 2.9 - 5.6	0.6 - 1.4 - 4.0
	400	278	10 - 17 - 26	8 - 13 - 21	4 - 8 - 18	2.03	131.1	2.9 - 5.2 - 7.9	2.3 - 4.0 - 6.5	1.1 - 2.6 - 5.3
	500	347	14 - 21 - 29	11 - 16 - 24	6 - 11 - 20	2.54	163.9	4.3 - 6.3 - 8.9	3.3 - 5.0 - 7.3	1.8 - 3.3 - 6.1
	600	417	17 - 23 - 32	13 - 19 - 26	8 - 13 - 22	3.05	196.6	5.2 - 6.9 - 9.7	4.0 - 5.6 - 8.0	2.6 - 4.0 - 6.7
	700	486	20 - 24 - 35	15 - 20 - 28	10 - 15 - 24	3.56	229.4	6.0 - 7.4 - 10.5	4.6 - 6.1 - 8.6	3.1 - 4.7 - 7.2
	800	556	21 - 26 - 37	17 - 21 - 30	12 - 18 - 25	4.06	262.2	6.5 - 7.9 - 11.2	5.3 - 6.5 - 9.2	3.6 - 5.3 - 7.7
	900	625	23 - 28 - 39	19 - 23 - 32	13 - 19 - 27	4.57	295.0	6.9 - 8.4 - 11.9	5.6 - 6.9 - 9.7	4.0 - 5.8 - 8.2
	1000	694	24 - 29 - 41	20 - 24 - 34	15 - 20 - 28	5.08	327.7	7.2 - 8.9 - 12.5	5.9 - 7.3 - 10.3	4.4 - 6.1 - 8.6
	1100	764	25 - 31 - 43	20 - 25 - 35	16 - 21 - 30	5.59	360.5	7.6 - 9.3 - 13.2	6.2 - 7.6 - 10.8	4.9 - 6.4 - 9.0
12" x 12"	300	300	7 - 15 - 27	5 - 11 - 22	3 - 6 - 16	1.52	141.6	2.0 - 4.5 - 8.2	1.6 - 3.5 - 6.8	0.8 - 1.7 - 4.8
	400	400	12 - 20 - 31	9 - 16 - 26	4 - 10 - 21	2.03	188.8	3.5 - 6.2 - 9.5	2.8 - 4.8 - 7.8	1.4 - 3.1 - 6.4
	500	500	17 - 25 - 35	13 - 20 - 29	7 - 13 - 24	2.54	236.0	5.2 - 7.5 - 10.6	4.0 - 5.9 - 8.7	2.1 - 4.0 - 7.3
	600	600	20 - 27 - 38	16 - 22 - 31	10 - 16 - 26	3.05	283.2	6.2 - 8.2 - 11.7	4.8 - 6.8 - 9.5	3.1 - 4.8 - 8.0
	700	700	24 - 29 - 41	18 - 24 - 34	12 - 18 - 28	3.56	330.4	7.2 - 8.9 - 12.6	5.6 - 7.3 - 10.3	3.7 - 5.6 - 8.7
	800	800	26 - 31 - 44	21 - 26 - 36	14 - 21 - 30	4.06	377.6	7.8 - 9.5 - 13.5	6.3 - 7.8 - 11.0	4.3 - 6.4 - 9.3
	900	900	27 - 33 - 47	22 - 27 - 38	16 - 23 - 32	4.57	424.8	8.2 - 10.1 - 14.3	6.8 - 8.3 - 11.7	4.8 - 6.9 - 9.8
	1000	1000	29 - 35 - 50	23 - 29 - 41	18 - 24 - 34	5.08	471.9	8.7 - 10.6 - 15.1	7.1 - 8.7 - 12.3	5.3 - 7.3 - 10.3
	1100	1100	30 - 37 - 52	25 - 30 - 43	19 - 25 - 36	5.59	519.1	9.1 - 11.2 - 15.8	7.5 - 9.1 - 12.9	5.9 - 7.7 - 10.8
14" x 14"	300	408	8 - 17 - 32	6 - 13 - 26	3 - 7 - 18	1.52	192.7	2.3 - 5.2 - 9.6	1.8 - 4.1 - 7.9	0.9 - 2.0 - 5.6
	400	544	14 - 24 - 37	11 - 18 - 30	5 - 12 - 25	2.03	257.0	4.1 - 7.2 - 11.1	3.2 - 5.6 - 9.1	1.6 - 3.6 - 7.5
	500	681	20 - 29 - 41	15 - 23 - 33	8 - 15 - 28	2.54	321.2	6.0 - 8.8 - 12.4	4.6 - 6.9 - 10.2	2.5 - 4.7 - 8.5
	600	817	24 - 32 - 45	18 - 26 - 37	12 - 18 - 31	3.05	385.4	7.2 - 9.6 - 13.6	5.6 - 7.9 - 11.1	3.6 - 5.6 - 9.3
	700	953	28 - 34 - 48	21 - 28 - 40	14 - 21 - 33	3.56	449.7	8.5 - 10.4 - 14.7	6.5 - 8.5 - 12.0	4.4 - 6.5 - 10.1
	800	1089	30 - 37 - 52	24 - 30 - 42	16 - 25 - 36	4.06	513.9	9.1 - 11.1 - 15.7	7.4 - 9.1 - 12.9	5.0 - 7.5 - 10.8
	900	1225	32 - 39 - 55	26 - 32 - 45	18 - 27 - 38	4.57	578.1	9.6 - 11.8 - 16.7	7.9 - 9.6 - 13.6	5.6 - 8.1 - 11.4
	1000	1361	33 - 41 - 58	27 - 33 - 47	20 - 28 - 40	5.08	642.4	10.1 - 12.4 - 17.6	8.3 - 10.2 - 14.4	6.2 - 8.5 - 12.1
	1100	1497	35 - 43 - 61	29 - 35 - 50	23 - 29 - 42	5.59	706.6	10.6 - 13.0 - 18.4	8.7 - 10.7 - 15.1	6.8 - 8.9 - 12.7
16" x 16"	300	533	9 - 20 - 36	7 - 15 - 30	3 - 8 - 21	1.52	251.7	2.6 - 6.0 - 11.0	2.1 - 4.7 - 9.0	1.0 - 2.3 - 6.4
	400	711	15 - 27 - 42	12 - 21 - 34	6 - 13 - 28	2.03	335.6	4.7 - 8.3 - 12.7	3.7 - 6.3 - 10.4	1.8 - 4.1 - 8.5
	500	889	23 - 33 - 47	17 - 26 - 38	9 - 18 - 32	2.54	419.5	6.9 - 10.0 - 14.2	5.3 - 7.9 - 11.6	2.8 - 5.3 - 9.8
	600	1067	27 - 36 - 51	21 - 30 - 42	13 - 21 - 35	3.05	503.4	8.3 - 11.0 - 15.5	6.3 - 9.0 - 12.7	4.1 - 6.4 - 10.7
	700	1244	32 - 39 - 55	24 - 32 - 45	16 - 25 - 38	3.56	587.3	9.7 - 11.9 - 16.8	7.4 - 9.7 - 13.8	5.0 - 7.5 - 11.5
	800	1422	34 - 42 - 59	28 - 34 - 48	19 - 28 - 41	4.06	671.2	10.4 - 12.7 - 18.0	8.5 - 10.4 - 14.7	5.7 - 8.5 - 12.3
	900	1600	36 - 44 - 63	30 - 36 - 51	21 - 30 - 43	4.57	755.1	11.0 - 13.5 - 19.0	9.0 - 11.0 - 15.6	6.4 - 9.3 - 13.1
	1000	1778	38 - 47 - 66	31 - 38 - 54	23 - 32 - 45	5.08	839.0	11.6 - 14.2 - 20.1	9.5 - 11.6 - 16.4	7.1 - 9.8 - 13.8
	1100	1956	40 - 49 - 69	33 - 40 - 57	26 - 34 - 48	5.59	922.9	12.2 - 14.9 - 21.1	10.0 - 12.2 - 17.2	7.8 - 10.2 - 14.5
18" x 18"	300	675	10 - 22 - 41	8 - 17 - 33	4 - 8 - 24	1.52	318.6	3.0 - 6.7 - 12.4	2.3 - 5.2 - 10.1	1.1 - 2.6 - 7.2
	400	900	17 - 31 - 47	14 - 23 - 38	7 - 15 - 32	2.03	424.8	5.3 - 9.3 - 14.3	4.1 - 7.1 - 11.7	2.0 - 4.6 - 9.6
	500	1125	26 - 37 - 53	20 - 29 - 43	10 - 20 - 36	2.54	530.9	7.8 - 11.3 - 16.0	5.9 - 8.9 - 13.1	3.2 - 6.0 - 11.0
	600	1350	31 - 41 - 58	23 - 33 - 47	15 - 24 - 40	3.05	637.1	9.3 - 12.4 - 17.5	7.1 - 10.1 - 14.3	4.6 - 7.2 - 12.0
	700	1575	36 - 44 - 62	27 - 36 - 51	18 - 28 - 43	3.56	743.3	10.9 - 13.4 - 18.9	8.3 - 10.9 - 15.5	5.6 - 8.4 - 13.0
	800	1800	38 - 47 - 66	31 - 38 - 54	21 - 32 - 46	4.06	849.5	11.7 - 14.3 - 20.2	9.5 - 11.7 - 16.5	6.4 - 9.6 - 13.9
	900	2025	41 - 50 - 70	33 - 41 - 58	24 - 34 - 48	4.57	955.7	12.4 - 15.1 - 21.4	10.1 - 12.4 - 17.5	7.2 - 10.4 - 14.7
	1000	2250	43 - 53 - 74	35 - 43 - 61	26 - 36 - 51	5.08	1061.9	13.0 - 16.0 - 22.6	10.7 - 13.1 - 18.5	8.0 - 11.0 - 15.5
	1100	2475	45 - 55 - 78	37 - 45 - 64	29 - 38 - 54	5.59	1168.1	13.7 - 16.7 - 23.7	11.2 - 13.7 - 19.4	8.8 - 11.5 - 16.3

PERFORATED FACE DIFFUSERS

 6
2
0
0
-
5
6
2
0
0

NOTE: See page C1-23 for notes.

6200FR, 6290FR | Curved Blade, Fire Rated

6200FR, 6290FR (Fire Rated Supply/Return) Suggested Specification & Configuration

6200FR

The perforated face fire rated supply diffuser shall be Krueger model 6200FR. 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 three-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 square neck.

The diffuser shall have individually adjustable curved blade deflectors mounted at the neck of the diffuser. The curved blade deflectors shall allow 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 adjustable curved blades.

6290FR

The perforated face fire rated return diffuser shall be Krueger model 6290FR. 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 three-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 square neck.

The return diffuser shall match the Krueger model 6200FR diffuser in appearance. The perforated face must be easily removable from the backpan.

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° 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)**
6200FR - Perforated, Square Neck with Backpan Mounted Adjustable Curved Blades, Steel Fire Rated Supply Diffuser
6290FR - Perforated, Square Neck, Steel Fire Rated Return
- 2. PATTERN: (XXX)**
01 - 1-Way
02 - 2-Way
03 - 3-Way
04 - 4-Way
02C - 2-Way Corner
90 - Return
- 3. WIDTH: SQUARE NECK ONLY (XX)**
6" - 14" in 2" Increments
- 4. HEIGHT: SQUARE NECK ONLY (XX)**
6" - 14" in 2" Increments
- 5. FRAME: (XXX)**
F23 - Lay-in T-Bar
- 6. PANEL: (XX)x(XX)**
24"x24"
- 7. FINISH: (XX)**
01 - Mill
10 - Alumican
35 - Black
44 - British White



PERFORATED FACE DIFFUSERS

6200FR - 6290FR

SAMPLE CONFIGURATION: 6200FR - 04 - 14x14 - F23 - 24x24 - 44