

AFS580 / AFS585

Return Grille | Architectural, Extruded Aluminum



PERFORMANCE DATA | AFS580 | 45° DEFLECTION (NO DAMPER)

		IP DATA				NC	METRIC DATA					OCTAVE BAND, dB						
NOM DUCT	DUCT AREA	NECK VEL	AIRFLOW	Ps	NOM DUCT		DUCT AREA	NECK VEL	AIRFLOW	Ps	2	3	4	5	6	7		
in	ft ²	FPM	CFM	"WG	mm		m ²	m/s	L/s	Pa								
6" x 6"	0.25	300	57	-0.035	12	152 x 152	0.02	1.52	27	-8.7	29	32	31	-	-	-		
		465	89	-0.084	22			2.36	42	-20.8	35	40	40	26	21	18		
		630	121	-0.154	30			3.20	57	-38.3	40	45	46	37	33	29		
		795	152	-0.245	36			4.04	72	-60.9	43	49	51	46	42	37		
		960	184	-0.357	40			4.88	87	-88.8	46	53	54	53	50	44		
10" x 6"	0.42	260	88	-0.026	11	254 x 152	0.04	1.32	41	-6.5	29	32	31	-	-	-		
		415	140	-0.067	22			2.11	66	-16.6	36	40	40	25	19	17		
		570	192	-0.126	30			2.90	91	-31.3	40	46	46	36	32	28		
		725	244	-0.204	36			3.68	115	-50.7	44	50	51	45	42	37		
		880	297	-0.300	41			4.47	140	-74.7	47	53	55	53	49	44		
12" x 6"	0.50	260	107	-0.026	12	305 x 152	0.05	1.32	50	-6.5	29	33	31	-	-	-		
		410	168	-0.065	23			2.08	79	-16.2	36	41	40	25	19	17		
		560	230	-0.121	30			2.84	108	-30.2	41	46	47	37	32	28		
		710	291	-0.195	36			3.61	137	-48.6	44	50	51	46	42	37		
		860	353	-0.286	41			4.37	166	-71.3	47	54	55	53	50	44		
12" x 8"	0.67	240	136	-0.022	11	305 x 203	0.06	1.22	64	-5.6	29	32	31	-	-	-		
		385	218	-0.057	23			1.96	103	-14.3	36	41	40	24	19	16		
		530	300	-0.109	31			2.69	142	-27.1	41	46	47	36	32	28		
		675	382	-0.176	37			3.43	180	-43.9	45	51	52	45	41	36		
		820	464	-0.260	41			4.17	219	-64.8	48	54	56	53	49	43		
18" x 6"	0.75	240	151	-0.022	12	457 x 152	0.07	1.22	71	-5.6	30	33	31	-	-	-		
		380	239	-0.056	23			1.93	113	-13.9	37	41	41	24	19	16		
		520	327	-0.105	31			2.64	154	-26.1	41	47	47	36	31	28		
		660	415	-0.169	36			3.35	196	-42.0	45	51	52	45	41	36		
		800	503	-0.248	41			4.06	237	-61.7	48	54	56	52	49	43		
22" x 6"	0.92	220	170	-0.019	11	559 x 152	0.09	1.12	80	-4.7	29	32	31	-	-	-		
		360	279	-0.050	23			1.83	132	-12.5	37	41	40	24	17	15		
		500	387	-0.097	31			2.54	183	-24.1	42	47	47	36	31	27		
		640	496	-0.159	37			3.25	234	-39.5	45	51	52	45	41	36		
		780	604	-0.236	42			3.96	285	-58.7	48	55	56	52	49	43		
18" x 10"	1.25	220	244	-0.019	12	457 x 254	0.12	1.12	115	-4.7	31	34	32	-	-	-		
		345	382	-0.046	23			1.75	180	-11.5	37	42	41	24	18	16		
		470	521	-0.086	31			2.39	246	-21.3	42	47	47	35	30	27		
		595	659	-0.137	37			3.02	311	-34.1	46	51	52	44	40	35		
		720	798	-0.201	41			3.66	377	-50.0	48	55	56	51	48	42		
27" x 8"	1.50	200	264	-0.015	11	686 x 203	0.14	1.02	125	-3.9	30	33	31	-	-	-		
		325	430	-0.041	23			1.65	203	-10.2	37	41	40	22	16	14		
		450	595	-0.078	31			2.29	281	-19.5	42	47	47	35	29	26		
		575	760	-0.128	37			2.92	359	-31.9	46	51	52	44	39	35		
		700	925	-0.190	41			3.56	437	-47.2	49	55	56	51	47	42		
24" x 10"	1.67	200	299	-0.015	11	610 x 254	0.15	1.02	141	-3.9	31	33	31	-	-	-		
		325	485	-0.041	23			1.65	229	-10.2	38	42	41	23	17	15		
		450	672	-0.078	31			2.29	317	-19.5	43	47	47	35	30	26		
		575	859	-0.128	37			2.92	405	-31.9	46	52	52	44	40	35		
		700	1045	-0.190	42			3.56	493	-47.2	49	55	56	52	48	42		
16" x 16"	1.78	200	323	-0.015	12	406 x 406	0.17	1.02	152	-3.9	31	33	32	-	-	-		
		315	509	-0.038	23			1.60	240	-9.6	38	41	41	22	16	14		
		430	694	-0.072	30			2.18	328	-17.8	42	47	47	34	29	25		
		545	880	-0.115	36			2.77	415	-28.6	46	51	52	43	38	34		
		660	1066	-0.169	41			3.35	503	-42.0	49	55	55	50	46	40		
18" x 18"	2.25	180	372	-0.013	-	457 x 457	0.21	0.91	176	-3.1	30	32	30	-	-	-		
		295	610	-0.034	22			1.50	288	-8.4	38	41	40	21	15	13		
		410	847	-0.065	30			2.08	400	-16.2	42	47	47	33	28	25		
		525	1085	-0.107	36			2.67	512	-26.6	46	51	52	43	38	33		
		640	1323	-0.159	41			3.25	624	-39.5	49	55	56	50	46	40		

NOTE: See notes on page J1-84.

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		IP DATA				NC	METRIC DATA					OCTAVE BAND, dB						
NOM DUCT	DUCT AREA	NECK VEL	AIRFLOW	Ps	NOM DUCT		DUCT AREA	NECK VEL	AIRFLOW	Ps	2	3	4	5	6	7		
in	ft ²	FPM	CFM	"WG	mm		m ²	m/s	L/s	Pa								
30" x 12"	2.50	180	411	-0.13	11	762 x 305	0.23	0.91	194	-3.1	31	33	31	-	-	-		
		290	663	-0.33	22			1.47	313	-8.1	38	41	40	21	14	13		
		400	914	-0.62	30			2.03	431	-15.4	42	47	47	33	27	24		
		510	1165	-1.01	36			2.59	550	-25.1	46	51	52	42	37	33		
		620	1417	-1.49	41			3.15	669	-37.1	49	55	56	49	45	40		
20" x 20"	2.78	180	463	-0.13	11	508 x 508	0.26	0.91	219	-3.1	31	33	31	-	-	-		
		285	733	-0.31	22			1.45	346	-7.8	38	41	41	21	14	13		
		390	1004	-0.59	30			1.98	474	-14.7	43	47	47	33	27	24		
		495	1274	-0.95	36			2.51	601	-23.6	46	51	52	41	37	32		
30" x 16"	3.33	180	558	-0.13	12	762 x 406	0.31	0.91	263	-3.1	32	34	32	-	-	-		
		285	883	-0.31	23			1.45	417	-7.8	39	42	41	22	15	13		
		390	1208	-0.59	31			1.98	570	-14.7	43	48	48	34	28	25		
		495	1533	-0.95	37			2.51	724	-23.6	47	52	52	42	38	33		
		600	1859	-1.39	41			3.05	877	-34.7	50	55	56	50	46	40		
36" x 14"	3.50	180	584	-0.13	12	914 x 356	0.33	0.91	276	-3.1	32	34	32	-	-	-		
		280	908	-0.30	23			1.42	429	-7.6	39	42	41	21	15	13		
		380	1233	-0.56	30			1.93	582	-13.9	43	48	47	33	27	24		
		480	1557	-0.89	36			2.44	735	-22.2	47	52	52	41	37	32		
30" x 18"	3.75	180	631	-0.13	13	762 x 457	0.35	0.91	298	-3.1	32	35	33	-	-	-		
		275	964	-0.29	23			1.40	455	-7.3	39	42	41	21	14	13		
		370	1296	-0.53	30			1.88	612	-13.2	43	47	47	32	27	23		
		465	1629	-0.84	36			2.36	769	-20.8	46	51	52	41	36	32		
		560	1962	-1.21	40			2.84	926	-30.2	49	55	55	48	43	38		
36" x 18"	4.50	180	760	-0.13	13	914 x 457	0.42	0.91	359	-3.1	33	35	33	-	-	-		
		270	1140	-0.28	23			1.37	538	-7.0	39	43	41	21	15	13		
		360	1520	-0.50	30			1.83	717	-12.5	43	48	47	32	26	23		
		450	1900	-0.78	36			2.29	897	-19.5	47	52	52	40	35	31		
42" x 18"	5.25	160	791	-0.10	11	1067 x 457	0.49	0.81	373	-2.5	32	34	32	-	-	-		
		255	1260	-0.25	23			1.30	595	-6.3	39	42	41	20	13	12		
		350	1729	-0.47	30			1.78	816	-11.8	44	48	47	32	26	23		
		445	2199	-0.77	36			2.26	1038	-19.1	47	52	52	41	36	32		
		540	2668	-1.13	41			2.74	1259	-28.1	50	55	56	48	44	38		
30" x 28"	5.83	160	886	-0.10	12	762 x 711	0.54	0.81	418	-2.5	32	34	32	-	-	-		
		255	1411	-0.25	23			1.30	666	-6.3	39	43	41	21	14	12		
		350	1937	-0.47	31			1.78	914	-11.8	44	48	48	32	27	23		
		445	2463	-0.77	37			2.26	1162	-19.1	47	52	52	41	36	32		
30" x 30"	6.25	160	951	-0.10	12	762 x 762	0.58	0.81	449	-2.5	33	35	32	-	-	-		
		255	1515	-0.25	23			1.30	715	-6.3	40	43	42	21	14	12		
		350	2079	-0.47	31			1.78	981	-11.8	44	48	48	33	27	24		
		445	2644	-0.77	37			2.26	1248	-19.1	48	53	53	42	37	32		
		540	3208	-1.13	42			2.74	1514	-28.1	51	56	57	49	45	39		
46" x 22"	7.03	160	1068	-0.10	13	1168 x 559	0.65	0.81	504	-2.5	33	35	33	-	-	-		
		250	1669	-0.24	24			1.27	788	-6.0	40	43	42	21	14	12		
		340	2270	-0.45	31			1.73	1071	-11.1	44	48	48	32	26	23		
		430	2871	-0.72	37			2.18	1355	-17.8	48	53	53	41	36	32		
36" x 30"	7.50	160	1146	-0.10	13	914 x 762	0.70	0.81	541	-2.5	33	35	33	-	-	-		
		245	1754	-0.23	23			1.24	828	-5.8	40	43	42	20	14	12		
		330	2363	-0.42	31			1.68	1115	-10.5	44	48	48	32	26	23		
		415	2971	-0.67	36			2.11	1402	-16.6	47	52	52	40	35	31		
		500	3580	-0.97	41			2.54	1690	-24.1	50	56	56	47	43	37		

NOTE: See notes on page J1-84.

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		IP DATA				NC	METRIC DATA					OCTAVE BAND, dB					
NOM DUCT	DUCT AREA	NECK VEL	AIRFLOW	Ps	NOM DUCT		DUCT AREA	NECK VEL	AIRFLOW	Ps	2	3	4	5	6	7	
in	ft ²	FPM	CFM	"WG	mm		m ²	m/s	L/s	Pa							
34" x 34"	8.03	160	1228	-.010	13	864 x 864	0.75	0.81	580	-2.5	34	36	33	-	-	-	
		245	1881	-.023	24			1.24	888	-5.8	40	43	42	21	14	12	
		330	2534	-.042	31			1.68	1196	-10.5	44	48	48	32	26	23	
		415	3186	-.067	37			2.11	1504	-16.6	48	53	52	40	35	31	
		500	3839	-.097	41			2.54	1812	-24.1	50	56	56	47	43	38	
42" x 30"	8.75	160	1341	-.010	14	1067 x 762	0.81	0.81	633	-2.5	34	36	34	-	-	-	
		240	2011	-.022	24			1.22	949	-5.6	40	43	42	20	14	12	
		320	2681	-.040	31			1.63	1265	-9.9	44	48	48	31	25	22	
		400	3352	-.062	36			2.03	1582	-15.4	48	52	52	39	34	30	
		480	4022	-.089	41			2.44	1898	-22.2	50	55	56	46	42	37	
48" x 30"	10.00	140	1344	-.008	11	1219 x 762	0.93	0.71	634	-1.9	33	34	32	-	-	-	
		220	2111	-.019	22			1.12	997	-4.7	39	42	41	18	11	-	
		300	2879	-.035	30			1.52	1359	-8.7	44	48	47	29	23	20	
		380	3647	-.056	35			1.93	1721	-13.9	47	52	52	38	33	29	
		460	4415	-.082	40			2.34	2084	-20.4	50	55	55	45	41	36	
42" x 36"	10.50	140	1414	-.008	11	1067 x 914	0.98	0.71	667	-1.9	33	34	32	-	-	-	
		220	2221	-.019	22			1.12	1048	-4.7	39	42	41	18	11	-	
		300	3029	-.035	30			1.52	1430	-8.7	44	48	47	30	24	21	
		380	3837	-.056	36			1.93	1811	-13.9	48	52	52	39	33	29	
		460	4645	-.082	40			2.34	2192	-20.4	50	55	56	46	41	36	
42" x 38"	11.08	140	1494	-.008	12	1067 x 965	1.03	0.71	705	-1.9	33	35	32	-	-	-	
		220	2348	-.019	23			1.12	1108	-4.7	40	43	41	18	11	-	
		300	3201	-.035	30			1.52	1511	-8.7	44	48	47	30	24	21	
		380	4055	-.056	36			1.93	1914	-13.9	48	52	52	39	33	29	
		460	4908	-.082	41			2.34	2317	-20.4	51	56	56	46	41	36	
48" x 36"	12.00	140	1619	-.008	12	1219 x 914	1.11	0.71	764	-1.9	33	35	32	-	-	-	
		220	2545	-.019	23			1.12	1201	-4.7	40	43	41	19	12	-	
		300	3470	-.035	31			1.52	1638	-8.7	45	48	48	30	24	21	
		380	4395	-.056	36			1.93	2074	-13.9	48	53	52	39	34	30	
		460	5321	-.082	41			2.34	2511	-20.4	51	56	56	46	42	37	
44" x 44"	13.44	140	1819	-.008	12	1118 x 1118	1.25	0.71	858	-1.9	34	35	33	-	-	-	
		220	2858	-.019	23			1.12	1349	-4.7	40	43	42	19	12	11	
		300	3897	-.035	31			1.52	1839	-8.7	45	49	48	31	25	22	
		380	4936	-.056	37			1.93	2330	-13.9	48	53	53	40	34	30	
		460	5975	-.082	42			2.34	2820	-20.4	51	56	57	47	42	37	
46" x 46"	14.69	140	1991	-.008	13	1168 x 1168	1.37	0.71	939	-1.9	34	36	33	-	-	-	
		215	3057	-.018	23			1.09	1443	-4.5	40	43	42	19	12	-	
		290	4124	-.033	31			1.47	1946	-8.1	45	49	48	30	24	21	
		365	5190	-.052	36			1.85	2449	-12.8	48	53	52	39	33	29	
		440	6256	-.075	41			2.24	2953	-18.7	51	56	56	46	41	36	
48" x 48"	16.00	140	2171	-.008	13	1219 x 1219	1.49	0.71	1024	-1.9	34	36	33	-	-	-	
		210	3256	-.017	23			1.07	1537	-4.3	40	43	42	19	11	-	
		280	4341	-.030	30			1.42	2049	-7.6	45	48	47	29	23	20	
		350	5426	-.047	36			1.78	2561	-11.8	48	52	52	38	32	28	
		420	6512	-.068	40			2.13	3073	-17.0	51	56	55	44	39	35	

NOTES: NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10⁻¹² Watts. Dash in space denotes a NC or dB value of less than 10. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. See Krueger's selection program for performance data not shown, including octave band data.