

PERFORMANCE DATA | AFS585 | 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	OCTAVE BAND, dB							
in	ft ²	FPM	CFM	"WG	mm		m ²	m/s	L/s	Pa	2	3	4	5	6	7		
6" x 6"	0.25	300	57	-0.22	13	152 x 152	0.02	1.52	27	-5.6	30	33	32	11	-	-		
		465	89	-0.54	23			2.36	42	-13.4	36	41	41	27	22	19		
		630	121	-0.99	31			3.20	57	-24.7	41	46	47	38	34	30		
		795	152	-1.58	37			4.04	72	-39.3	44	50	52	47	43	38		
		960	184	-2.30	41			4.88	87	-57.3	47	54	55	54	51	45		
10" x 6"	0.42	260	88	-0.17	12	254 x 152	0.04	1.32	41	-4.2	30	33	32	-	-	-		
		415	140	-0.43	23			2.11	66	-10.7	37	41	41	26	20	18		
		570	192	-0.81	31			2.90	91	-20.2	41	47	47	37	33	29		
		725	244	-1.31	37			3.68	115	-32.7	45	51	52	46	43	38		
		880	297	-1.93	42			4.47	140	-48.1	48	54	56	54	50	45		
12" x 6"	0.50	260	107	-0.17	13	305 x 152	0.05	1.32	50	-4.2	30	34	32	-	-	-		
		410	168	-0.42	24			2.08	79	-10.4	37	42	41	26	20	18		
		560	230	-0.78	31			2.84	108	-19.5	42	47	48	38	33	29		
		710	291	-1.26	37			3.61	137	-31.3	45	51	52	47	43	38		
		860	353	-1.85	42			4.37	166	-45.9	48	55	56	54	51	45		
12" x 8"	0.67	240	136	-0.14	12	305 x 203	0.06	1.22	64	-3.6	30	33	32	-	-	-		
		385	218	-0.37	24			1.96	103	-9.2	37	42	41	25	20	17		
		530	300	-0.70	32			2.69	142	-17.5	42	47	48	37	33	29		
		675	382	-1.14	38			3.43	180	-28.3	46	52	53	46	42	37		
		820	464	-1.68	42			4.17	219	-41.8	49	55	57	54	50	44		
18" x 6"	0.75	240	151	-0.14	13	457 x 152	0.07	1.22	71	-3.6	31	34	32	-	-	-		
		380	239	-0.36	24			1.93	113	-9.0	38	42	42	25	20	17		
		520	327	-0.67	32			2.64	154	-16.8	42	48	48	37	32	29		
		660	415	-1.09	37			3.35	196	-27.1	46	52	53	46	42	37		
		800	503	-1.60	42			4.06	237	-39.8	49	55	57	53	50	44		
22" x 6"	0.92	220	170	-0.12	12	559 x 152	0.09	1.12	80	-3.0	30	33	32	-	-	-		
		360	279	-0.32	24			1.83	132	-8.1	38	42	41	25	18	16		
		500	387	-0.62	32			2.54	183	-15.5	43	48	48	37	32	28		
		640	496	-1.02	38			3.25	234	-25.4	46	52	53	46	42	37		
		780	604	-1.52	43			3.96	285	-37.8	49	56	57	53	50	44		
18" x 10"	1.25	220	244	-0.12	13	457 x 254	0.12	1.12	115	-3.0	32	35	33	-	-	-		
		345	382	-0.30	24			1.75	180	-7.4	38	43	42	25	19	17		
		470	521	-0.55	32			2.39	246	-13.7	43	48	48	36	31	28		
		595	659	-0.88	38			3.02	311	-22.0	47	52	53	45	41	36		
		720	798	-1.29	42			3.66	377	-32.2	49	56	57	52	49	43		
27" x 8"	1.50	200	264	-0.10	12	686 x 203	0.14	1.02	125	-2.5	31	34	32	-	-	-		
		325	430	-0.26	24			1.65	203	-6.6	38	42	41	23	17	15		
		450	595	-0.51	32			2.29	281	-12.6	43	48	48	36	30	27		
		575	760	-0.82	38			2.92	359	-20.5	47	52	53	45	40	36		
		700	925	-1.22	42			3.56	437	-30.4	50	56	57	52	48	43		
24" x 10"	1.67	200	299	-0.10	12	610 x 254	0.15	1.02	141	-2.5	32	34	32	-	-	-		
		325	485	-0.26	24			1.65	229	-6.6	39	43	42	24	18	16		
		450	672	-0.51	32			2.29	317	-12.6	44	48	48	36	31	27		
		575	859	-0.82	38			2.92	405	-20.5	47	53	53	45	41	36		
		700	1045	-1.22	43			3.56	493	-30.4	50	56	57	53	49	43		
16" x 16"	1.78	200	323	-0.10	13	406 x 406	0.17	1.02	152	-2.5	32	34	33	-	-	-		
		315	509	-0.25	24			1.60	240	-6.2	39	42	42	23	17	15		
		430	694	-0.46	31			2.18	328	-11.5	43	48	48	35	30	26		
		545	880	-0.74	37			2.77	415	-18.5	47	52	53	44	39	35		
		660	1066	-1.09	42			3.35	503	-27.1	50	56	56	51	47	41		
18" x 18"	2.25	180	372	-0.08	11	457 x 457	0.21	0.91	176	-2.0	31	33	31	-	-	-		
		295	610	-0.22	23			1.50	288	-5.4	39	42	41	22	16	14		
		410	847	-0.42	31			2.08	400	-10.4	43	48	48	34	29	26		
		525	1085	-0.69	37			2.67	512	-17.1	47	52	53	44	39	34		
		640	1323	-1.02	42			3.25	624	-25.4	50	56	57	51	47	41		

NOTE: See notes on page J1-89.

AFS580 / AFS585

Return Grille | Architectural, Extruded Aluminum



PERFORMANCE DATA | AFS585 | 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	ft²	FPM	CFM	"WG	mm		m²	m/s	L/s	Pa								
30" x 12"	2.50	180	411	-0.08	12	762 x 305	0.23	0.91	194	-2.0	32	34	32	-	-	-		
		290	663	-0.21	23			1.47	313	-5.2	39	42	41	22	15	14		
		400	914	-0.40	31			2.03	431	-9.9	43	48	48	34	28	25		
		510	1165	-0.65	37			2.59	550	-16.2	47	52	53	43	38	34		
		620	1417	-0.96	42			3.15	669	-23.9	50	56	57	50	46	41		
20" x 20"	2.78	180	463	-0.08	12	508 x 508	0.26	0.91	219	-2.0	32	34	32	-	-	-		
		285	733	-0.20	23			1.45	346	-5.0	39	42	42	22	15	14		
		390	1004	-0.38	31			1.98	474	-9.5	44	48	48	34	28	25		
		495	1274	-0.61	37			2.51	601	-15.2	47	52	53	42	38	33		
		600	1544	-0.90	42			3.05	729	-22.4	50	56	56	50	46	40		
30" x 16"	3.33	180	558	-0.08	13	762 x 406	0.31	0.91	263	-2.0	33	35	33	-	-	-		
		285	883	-0.20	24			1.45	417	-5.0	40	43	42	23	16	14		
		390	1208	-0.38	32			1.98	570	-9.5	44	49	49	35	29	26		
		495	1533	-0.61	38			2.51	724	-15.2	48	53	53	43	39	34		
		600	1859	-0.90	42			3.05	877	-22.4	51	56	57	51	47	41		
36" x 14"	3.50	180	584	-0.08	13	914 x 356	0.33	0.91	276	-2.0	33	35	33	-	-	-		
		280	908	-0.20	24			1.42	429	-4.9	40	43	42	22	16	14		
		380	1233	-0.36	31			1.93	582	-9.0	44	49	48	34	28	25		
		480	1557	-0.57	37			2.44	735	-14.3	48	53	53	42	38	33		
		580	1881	-0.84	42			2.95	888	-20.9	50	56	57	50	45	40		
30" x 18"	3.75	180	631	-0.08	14	762 x 457	0.35	0.91	298	-2.0	33	36	34	-	-	-		
		275	964	-0.19	24			1.40	455	-4.7	40	43	42	22	15	14		
		370	1296	-0.34	31			1.88	612	-8.5	44	48	48	33	28	24		
		465	1629	-0.54	37			2.36	769	-13.4	47	52	53	42	37	33		
		560	1962	-0.78	41			2.84	926	-19.5	50	56	56	49	44	39		
36" x 18"	4.50	180	760	-0.08	14	914 x 457	0.42	0.91	359	-2.0	34	36	34	-	-	-		
		270	1140	-0.18	24			1.37	538	-4.5	40	44	42	22	16	14		
		360	1520	-0.32	31			1.83	717	-8.1	44	49	48	33	27	24		
		450	1900	-0.51	37			2.29	897	-12.6	48	53	53	41	36	32		
		540	2280	-0.73	41			2.74	1076	-18.1	50	56	56	48	44	39		
42" x 18"	5.25	160	791	-0.06	12	1067 x 457	0.49	0.81	373	-1.6	33	35	33	-	-	-		
		255	1260	-0.16	24			1.30	595	-4.0	40	43	42	21	14	13		
		350	1729	-0.31	31			1.78	816	-7.6	45	49	48	33	27	24		
		445	2199	-0.49	37			2.26	1038	-12.3	48	53	53	42	37	33		
		540	2668	-0.73	42			2.74	1259	-18.1	51	56	57	49	45	39		
30" x 28"	5.83	160	886	-0.06	13	762 x 711	0.54	0.81	418	-1.6	33	35	33	-	-	-		
		255	1411	-0.16	24			1.30	666	-4.0	40	44	42	22	15	13		
		350	1937	-0.31	32			1.78	914	-7.6	45	49	49	33	28	24		
		445	2463	-0.49	38			2.26	1162	-12.3	48	53	53	42	37	33		
		540	2989	-0.73	43			2.74	1411	-18.1	51	57	57	50	45	40		
30" x 30"	6.25	160	951	-0.06	13	762 x 762	0.58	0.81	449	-1.6	34	36	33	-	-	-		
		255	1515	-0.16	24			1.30	715	-4.0	41	44	43	22	15	13		
		350	2079	-0.31	32			1.78	981	-7.6	45	49	49	34	28	25		
		445	2644	-0.49	38			2.26	1248	-12.3	49	54	54	43	38	33		
		540	3208	-0.73	43			2.74	1514	-18.1	52	57	58	50	46	40		
46" x 22"	7.03	160	1068	-0.06	14	1168 x 559	0.65	0.81	504	-1.6	34	36	34	-	-	-		
		250	1669	-0.16	25			1.27	788	-3.9	41	44	43	22	15	13		
		340	2270	-0.29	32			1.73	1071	-7.2	45	49	49	33	27	24		
		430	2871	-0.46	38			2.18	1355	-11.5	49	54	54	42	37	33		
		520	3472	-0.67	42			2.64	1639	-16.8	52	57	57	49	45	39		
36" x 30"	7.50	160	1146	-0.06	14	914 x 762	0.70	0.81	541	-1.6	34	36	34	-	-	-		
		245	1754	-0.15	24			1.24	828	-3.7	41	44	43	21	15	13		
		330	2363	-0.27	32			1.68	1115	-6.8	45	49	49	33	27	24		
		415	2971	-0.43	37			2.11	1402	-10.7	48	53	53	41	36	32		
		500	3580	-0.62	42			2.54	1690	-15.5	51	57	57	48	44	38		

NOTE: See notes on page J1-89.

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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	-0.06	14	864 x 864	0.75	0.81	580	-1.6	35	37	34	-	-	-		
		245	1881	-0.15	25			1.24	888	-3.7	41	44	43	22	15	13		
		330	2534	-0.27	32			1.68	1196	-6.8	45	49	49	33	27	24		
		415	3186	-0.43	38			2.11	1504	-10.7	49	54	53	41	36	32		
		500	3839	-0.62	42			2.54	1812	-15.5	51	57	57	48	44	39		
42" x 30"	8.75	160	1341	-0.06	15	1067 x 762	0.81	0.81	633	-1.6	35	37	35	-	-	-		
		240	2011	-0.14	25			1.22	949	-3.6	41	44	43	21	15	13		
		320	2681	-0.26	32			1.63	1265	-6.4	45	49	49	32	26	23		
		400	3352	-0.40	37			2.03	1582	-9.9	49	53	53	40	35	31		
48" x 30"	10.00	140	1344	-0.05	12	1219 x 762	0.93	0.71	634	-1.2	34	35	33	-	-	-		
		220	2111	-0.12	23			1.12	997	-3.0	40	43	42	19	12	-		
		300	2879	-0.22	31			1.52	1359	-5.6	45	49	48	30	24	21		
		380	3647	-0.36	36			1.93	1721	-9.0	48	53	53	39	34	30		
		460	4415	-0.53	41			2.34	2084	-13.1	51	56	56	46	42	37		
42" x 36"	10.50	140	1414	-0.05	12	1067 x 914	0.98	0.71	667	-1.2	34	35	33	-	-	-		
		220	2221	-0.12	23			1.12	1048	-3.0	40	43	42	19	12	11		
		300	3029	-0.22	31			1.52	1430	-5.6	45	49	48	31	25	22		
		380	3837	-0.36	37			1.93	1811	-9.0	49	53	53	40	34	30		
42" x 38"	11.08	140	1494	-0.05	13	1067 x 965	1.03	0.71	705	-1.2	34	36	33	-	-	-		
		220	2348	-0.12	24			1.12	1108	-3.0	41	44	42	19	12	11		
		300	3201	-0.22	31			1.52	1511	-5.6	45	49	48	31	25	22		
		380	4055	-0.36	37			1.93	1914	-9.0	49	53	53	40	34	30		
		460	4908	-0.53	42			2.34	2317	-13.1	52	57	57	47	42	37		
48" x 36"	12.00	140	1619	-0.05	13	1219 x 914	1.11	0.71	764	-1.2	34	36	33	-	-	-		
		220	2545	-0.12	24			1.12	1201	-3.0	41	44	42	20	13	11		
		300	3470	-0.22	32			1.52	1638	-5.6	46	49	49	31	25	22		
		380	4395	-0.36	37			1.93	2074	-9.0	49	54	53	40	35	31		
44" x 44"	13.44	140	1819	-0.05	13	1118 x 1118	1.25	0.71	858	-1.2	35	36	34	-	-	-		
		220	2858	-0.12	24			1.12	1349	-3.0	41	44	43	20	13	12		
		300	3897	-0.22	32			1.52	1839	-5.6	46	50	49	32	26	23		
		380	4936	-0.36	38			1.93	2330	-9.0	49	54	54	41	35	31		
		460	5975	-0.53	43			2.34	2820	-13.1	52	57	58	48	43	38		
46" x 46"	14.69	140	1991	-0.05	14	1168 x 1168	1.37	0.71	939	-1.2	35	37	34	-	-	-		
		215	3057	-0.12	24			1.09	1443	-2.9	41	44	43	20	13	11		
		290	4124	-0.21	32			1.47	1946	-5.2	46	50	49	31	25	22		
		365	5190	-0.33	37			1.85	2449	-8.3	49	54	53	40	34	30		
48" x 48"	16.00	140	2171	-0.05	14	1219 x 1219	1.49	0.71	1024	-1.2	35	37	34	-	-	-		
		210	3256	-0.11	24			1.07	1537	-2.7	41	44	43	20	12	11		
		280	4341	-0.20	31			1.42	2049	-4.9	46	49	48	30	24	21		
		350	5426	-0.31	37			1.78	2561	-7.6	49	53	53	39	33	29		
		420	6512	-0.44	41			2.13	3073	-11.0	52	57	56	45	40	36		

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.