

# 60/70

## AIRFOIL RETURN GRILLE



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## Airfoil Return Grille

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The 60/70 Series Airfoil Return Grille features premium quality, extruded aluminum construction, resulting in clean, crisp detailing to blend with almost any architectural surrounding. The heavy extruded aluminum blades are fixed at a 45° angle for minimal see-through.



## MULTIPLE CONFIGURATIONS

- + The 60/70 Series is available with a choice of five border styles, four fastening options, and optional mounting frames making this product extremely versatile.

## FILTER FRAME

- + The filter frame option is designed for recirculating air systems.
- + The filter frame option accepts standard 1 in. filter media and is available in two styles that allow access to the filter for cleaning and maintenance, including:
  - A combination of ¼ turn fasteners and a piano hinge that allows hinging of the grille
  - ¼ turn quick release fasteners that allow complete removal of the grille



*Optional damper  
(reverse)*



*Optional filter frame  
(reverse)*

## TYPICAL APPLICATIONS

The clean lines of the extruded aluminum frame and blades make the 60/70 Series airfoil return grille well suited to architectural applications.

## CONSTRUCTION

- + Grille Spacing
  - ¾ in. (60)
  - ½ in. (70)
- + Mounting
  - Surface mount
  - Lay-In
  - Exposed duct
  - Panel mount
- + Available Sizes
  - Maximum one piece: 36 in. x 96 in.
  - Oversized construction available
- + Options
  - Filter frame (60FH/70FH)
  - Steel damper
  - Aluminum damper

# PERFORMANCE DATA

60 / 60FH – 3/4 in. blade spacing, 45° deflection

Core Area (sq. ft.)	Nominal Size	Core Velocity (fpm) Velocity Pressure (in. w.g.) Neg. Static Pressure (in. w.g.)	NC20				NC30			NC40				
			200	300	400	500	600	700	800	900	1000	1100		
			0.002	0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.062	0.075		
<b>0.15</b>	7 x 4	Flow Rate (cfm)	30	45	60	75	90	105	120	135	150	165		
	6 x 5	Sound (NC)	-	-	18	24	29	34	38	41	44	47		
<b>0.18</b>	8 x 4	Flow Rate (cfm)	36	54	72	90	108	126	144	162	180	198		
	7 x 5	Sound (NC)	-	-	19	25	30	35	39	42	45	48		
<b>0.22</b>	10 x 4	Flow Rate (cfm)	44	66	88	110	132	154	176	198	220	242		
	8 x 5	Sound (NC)	-	-	20	26	31	36	40	43	46	49		
<b>0.26</b>	12 x 4	Flow Rate (cfm)	52	78	104	130	156	182	208	234	260	286		
	10 x 5	Sound (NC)	-	-	21	27	33	37	41	44	47	50		
<b>0.30</b>	14 x 4	Flow Rate (cfm)	60	90	120	150	180	210	240	270	300	330	NC50	
		Sound (NC)	-	-	22	28	34	38	42	45	48	51		
<b>0.34</b>	16 x 4	Flow Rate (cfm)	68	102	136	170	204	238	272	306	340	374		
	12 x 5	Sound (NC)	-	15	23	29	35	39	43	46	49	52		
<b>0.39</b>	18 x 4	Flow Rate (cfm)	78	117	156	195	234	273	312	351	390	429		
	14 x 5	Sound (NC)	-	16	24	30	36	40	44	47	50	53		
<b>0.46</b>	20 x 4	Flow Rate (cfm)	92	138	184	230	276	322	368	414	460	506		
	16 x 5	Sound (NC)	-	17	25	31	37	41	45	48	51	54		
<b>0.52</b>	24 x 4	Flow Rate (cfm)	104	156	208	260	312	364	416	468	520	572		
	18 x 5	Sound (NC)	-	17	26	32	38	42	46	49	52	55		
<b>0.60</b>	28 x 4	Flow Rate (cfm)	120	180	240	300	360	420	480	540	600	660		
	20 x 5	Sound (NC)	-	18	26	33	38	43	46	50	53	55		
<b>0.69</b>	30 x 4	Flow Rate (cfm)	138	207	276	345	414	483	552	621	690	759		
	24 x 5	Sound (NC)	-	19	27	34	39	43	47	51	54	56		
<b>0.81</b>	36 x 4	Flow Rate (cfm)	162	243	324	405	486	567	648	729	810	891		
	28 x 5	Sound (NC)	-	20	28	35	40	44	48	52	55	57		
<b>0.90</b>	40 x 4	Flow Rate (cfm)	180	270	350	450	540	630	720	810	900	990		
	30 x 5	Sound (NC)	-	21	29	35	41	45	49	52	55	58		
<b>1.07</b>	48 x 4	Flow Rate (cfm)	214	321	428	535	642	749	856	963	1070	1177		
	36 x 5	Sound (NC)	-	22	30	36	42	46	50	53	56	59		
<b>1.18</b>	34 x 6	Flow Rate (cfm)	236	354	472	590	708	826	944	1062	1180	1298		
	24 x 8	Sound (NC)	-	23	31	37	42	47	51	54	57	60		
<b>1.60</b>	60 x 4	Flow Rate (cfm)	268	402	536	670	804	938	1072	1206	1340	1474	NC60	
	48 x 5	Sound (NC)	-	23	32	38	43	48	51	55	58	61		
<b>1.80</b>	72 x 4	Flow Rate (cfm)	320	480	640	800	960	1120	1280	1440	1600	1760		
	30 x 8	Sound (NC)	-	24	33	39	44	49	52	56	59	62		
<b>2.08</b>	60 x 5	Flow Rate (cfm)	360	540	720	900	1080	1260	1440	1620	1800	1980		
	48 x 6	Sound (NC)	-	25	33	40	45	50	53	57	60	62		
<b>2.45</b>	72 x 5	Flow Rate (cfm)	416	624	832	1040	1248	1456	1664	1872	2080	2288		
	60 x 6	Sound (NC)	15	26	34	41	46	50	54	58	61	63		
<b>2.75</b>	72 x 6	Flow Rate (cfm)	490	735	980	1225	1470	1715	1960	2205	2450	2695		
	48 x 8	Sound (NC)	16	27	35	42	47	51	55	59	62	64		
<b>2.78</b>	36 x 12	Flow Rate (cfm)	556	834	1112	1390	1668	1946	2224	2502	2780	3058		
	30 x 14	Sound (NC)	16	28	36	43	48	52	56	59	62	65		
<b>3.11</b>	60 x 8	Flow Rate (cfm)	622	933	1244	1555	1866	2177	2488	2799	3110	3421		
	48 x 10	Sound (NC)	17	29	37	43	49	53	57	60	63	66		
<b>3.61</b>	72 x 8	Flow Rate (cfm)	722	1083	1444	1805	2166	2527	2888	3249	3610	3971		
	60 x 10	Sound (NC)	18	30	38	44	49	54	58	61	64	67		
<b>4.29</b>	48 x 14	Flow Rate (cfm)	858	1287	1716	2145	2574	3003	3432	3861	4290	4719		
	36 x 18	Sound (NC)	19	31	39	45	51	55	59	62	65	68		
<b>4.65</b>	72 x 10	Flow Rate (cfm)	930	1395	1860	2325	2790	3255	3720	4185	4650	5115		
	48 x 16	Sound (NC)	20	31	39	46	51	55	59	63	66	68		
<b>5.58</b>	72 x 12	Flow Rate (cfm)	1116	1674	2232	2790	3348	3906	4464	5022	5580	6138		
	60 x 14	Sound (NC)	21	32	40	47	52	57	60	64	67	69		
<b>6.25</b>	72 x 14	Flow Rate (cfm)	1250	1875	2500	3125	3750	4375	5000	5625	6250	6875		
	60 x 16	Sound (NC)	21	33	41	48	53	57	61	64	67	70		

**Performance Notes:**

- Tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
- Air flow is in cfm.
- All pressures are in in. w.g.  
s.p. = static pressure.
- NC values are based on room absorption of 10 dB re 10<sup>-12</sup> watts.
- Blanks "-" indicate an NC level below 15.
- Grille tested with damper. Corrections for grille without damper:  
— Multiply negative static pressure by 0.77  
— Subtract 4 from listed NC.
- The performance tables are based on registers with F border. For ED border, the following correction factors must be applied due to the reduced core area for this border.

Listed Core Area	Multiply Total Pressure	Add NC
.15 - .30	2.5	14
.34 - .90	1.8	10
1.07 - 1.80	1.4	6
2.08 - 6.25	1.2	4

# 60/70

## Airfoil Return Grille

# PERFORMANCE DATA

70 / 70FH – 1/2 in. blade spacing, 45° deflection

Core Area (sq. ft.)	Nominal Size	Core Velocity (fpm) Velocity Pressure (in. w.g.) Neg. Static Pressure (in. w.g.)	NC20					NC30					NC40										
			200	300	400	500	600	700	800	900	1000	1100	200	300	400	500	600	700	800	900	1000	1100	
			0.002	0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.062	0.075	0.014	0.032	0.056	0.088	0.126	0.171	0.224	0.284	0.350	0.424	
<b>0.15</b>	7 x 4 6 x 5	Flow Rate (cfm)	30	45	60	75	90	105	120	135	150	165											
		Sound (NC)	-	-	16	22	26	30	33	36	39	41											
<b>0.18</b>	8 x 4 7 x 5	Flow Rate (cfm)	36	54	72	90	108	126	144	162	180	198											
		Sound (NC)	-	-	17	23	27	31	35	38	40	43											
<b>0.22</b>	10 x 4 8 x 5	Flow Rate (cfm)	44	66	88	110	132	154	176	198	220	242											
		Sound (NC)	-	-	18	24	29	32	36	39	41	44											
<b>0.26</b>	12 x 4 10 x 5	Flow Rate (cfm)	52	78	104	130	156	182	208	234	260	286											
		Sound (NC)	-	-	19	25	30	34	37	40	43	45											
<b>0.3</b>	14 x 4	Flow Rate (cfm)	60	90	120	150	180	210	240	270	300	330											
		Sound (NC)	-	-	20	26	31	34	38	41	43	46											
<b>0.34</b>	16 x 4 12 x 5	Flow Rate (cfm)	68	102	136	170	204	238	272	306	340	374											
		Sound (NC)	-	-	21	27	31	35	39	42	44	47											
<b>0.39</b>	18 x 4 14 x 5	Flow Rate (cfm)	78	117	156	195	234	273	312	351	390	429											
		Sound (NC)	-	15	22	28	32	36	39	42	45	47											
<b>0.46</b>	20 x 4 16 x 5	Flow Rate (cfm)	92	138	184	230	276	322	368	414	460	506											
		Sound (NC)	-	16	23	29	33	37	41	43	46	49											
<b>0.52</b>	24 x 4 18 x 5	Flow Rate (cfm)	104	156	208	260	312	364	416	468	520	572											
		Sound (NC)	-	17	24	29	34	38	41	44	47	49											
<b>0.6</b>	28 x 4 20 x 5	Flow Rate (cfm)	120	180	240	300	360	420	480	540	600	660											
		Sound (NC)	-	17	25	30	35	39	42	45	48	50											
<b>0.69</b>	30 x 4 24 x 5	Flow Rate (cfm)	138	207	276	345	414	483	552	621	690	759											
		Sound (NC)	-	18	26	31	36	40	43	46	49	51											
<b>0.81</b>	36 x 4 28 x 5	Flow Rate (cfm)	162	243	324	405	486	567	648	729	810	891											
		Sound (NC)	-	19	27	32	37	41	44	47	50	52											
<b>0.9</b>	40 x 4 30 x 5	Flow Rate (cfm)	180	270	360	450	540	630	720	810	900	990											
		Sound (NC)	-	20	27	33	37	41	45	48	50	53											
<b>1.07</b>	48 x 4 36 x 5	Flow Rate (cfm)	214	321	428	535	642	749	856	963	1070	1177											
		Sound (NC)	-	21	28	34	39	42	46	49	51	54											
<b>1.18</b>	34 x 6 24 x 8	Flow Rate (cfm)	236	354	472	590	708	826	944	1062	1180	1298											
		Sound (NC)	-	22	29	35	39	43	46	49	52	54											
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		Sound (NC)	-	23	29	35	40	44	47	50	53	55											
<b>1.6</b>	72 x 4 30 x 8	Flow Rate (cfm)	320	480	640	800	960	1120	1280	1440	1600	1760											
		Sound (NC)	-	24	31	36	41	45	48	51	54	56											
<b>1.8</b>	60 x 5 48 x 6	Flow Rate (cfm)	360	540	720	900	1080	1260	1440	1620	1800	1980											
		Sound (NC)	-	24	32	37	42	46	49	52	55	57											
<b>2.08</b>	72 x 5 60 x 6	Flow Rate (cfm)	416	624	832	1040	1248	1456	1664	1872	2080	2288											
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		Sound (NC)	19	29	36	42	46	50	53	56	59	61											
<b>4.29</b>	48 x 14 36 x 18	Flow Rate (cfm)	858	1287	1716	2145	2574	3003	3432	3861	4290	4719											
		Sound (NC)	20	30	37	43	47	51	55	57	60	62											
<b>4.65</b>	72 x 10 48 x 16	Flow Rate (cfm)	930	1395	1860	2325	2790	3255	3720	4185	4650	5115											
		Sound (NC)	20	30	38	43	48	52	55	58	61	63											
<b>5.58</b>	72 x 12 60 x 14	Flow Rate (cfm)	1116	1674	2232	2790	3348	3906	4464	5022	5580	6138											
		Sound (NC)	21	32	39	44	49	53	56	59	62	64											
<b>6.25</b>	72 x 14 60 x 16	Flow Rate (cfm)	1250	1875	2500	3125	3750	4375	5000	5625	6250	6875											
		Sound (NC)	22	32	39	45	50	54	57	60	63	65											

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  - Multiply negative static pressure by 0.77
  - Subtract 4 from listed NC.
- The performance tables are based on registers with F border. For ED border, the following correction factors must be applied due to the reduced core area for this border.

Listed Core Area	Multiply Total Pressure	Add NC
.15 - .30	2.6	+12
.34 - .90	1.7	+8
1.07 - 1.80	1.4	+5
2.08 - 6.25	1.2	+3



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