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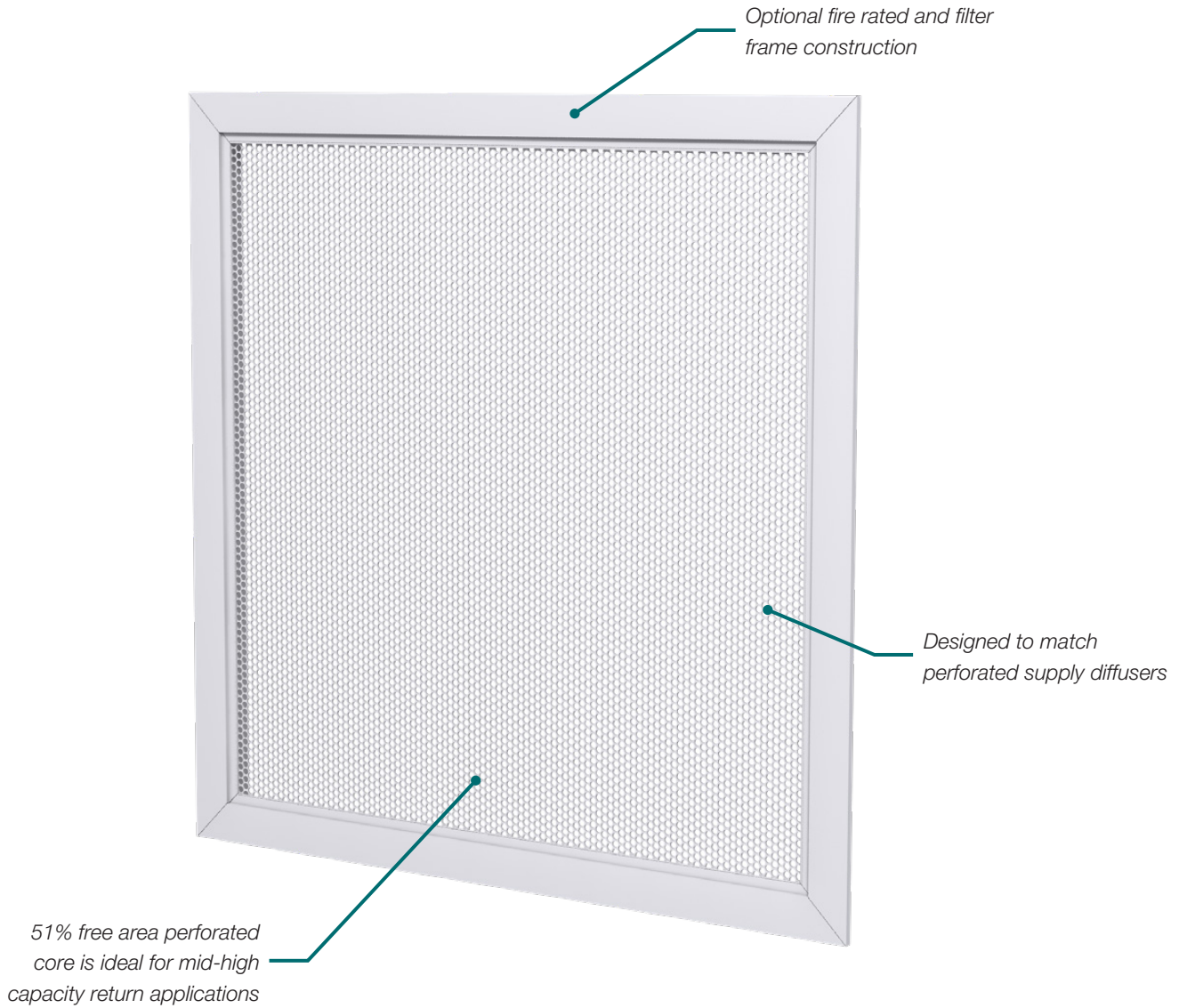
PERFORATED RETURN GRILLE



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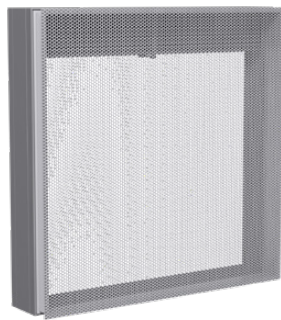
Perforated Return Grille

The 10 Series Perforated Return Grille is designed to match perforated supply diffusers to provide a coordinated aesthetic throughout a space. Featuring 51% free area, the 10 Series grille maintains low noise and pressure drop in high capacity return applications.



FIRE RATED CONSTRUCTION

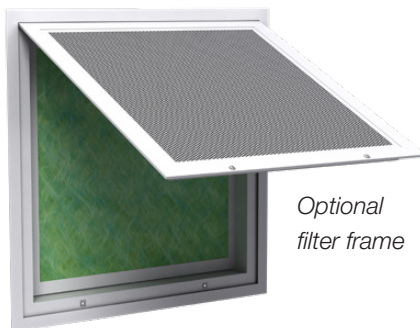
- + With the fire rated option, the 10 Series grille is a Fire Rated Assembly listed in the Underwriters Laboratories (UL) Fire Resistance Directory.
- + Fire rated models meet UL time vs. temperature test criteria and NFPA 90A requirements.
- + Fire rated construction incorporates a thermal blanket and fire damper.
- + The curtain style fire damper is available with either a 165°F or 212°F fusible link.
- + The fire rated option is only available for use in exposed grid suspended ceilings (T-Bar Lay-in) and must be installed in accordance with the installation instructions.



Fire rated construction

FILTER FRAME

- + The filter frame option accepts standard 1 in. and 2 in. filter media and is available in two styles that allow access to the filter for cleaning including:
 - A combination of ¼ turn fasteners and a hinge-tab mechanism that allows hinging of the grille face.
 - ¼ turn quick release fasteners that allow complete removal of the grille.



Optional filter frame

TYPICAL APPLICATIONS

The 10 Series grille is typically used in ceiling applications where architectural appeal is a main requirement. With high free area, the 10 Series grille is intended to be used as a mid to high capacity return grille.

CONSTRUCTION

- + Core Material
 - Steel (10)
 - Aluminum (10A)
 - Stainless steel (10SS)
- + Size
 - Minimum: 6 in. x 4 in.
 - Maximum (single piece): 24 in. x 48 in.
 - Oversized construction available
- + Options
 - Fire rated construction (10-FR)
 - Filter frame (10FF)
 - Filter frame, fire rated (10FF-FR)
 - Mounting frame
 - Steel damper
 - Aluminum damper

PERFORMANCE DATA

10, 10FF

Core Area (sq. ft.)	Nominal Size	Core Velocity (fpm) Velocity Pressure (in. w.g.) Neg. Static Pressure (in. w.g.)	NC20					NC30				
			200	300	400	500	600	700	800	900	1000	
			0.002	0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.062	
			0.019	0.043	0.076	0.118	0.171	0.232	0.303	0.384	0.474	
0.15	6 x 5 7 x 4	Flow Rate (cfm)	30	45	60	75	90	105	120	135	150	
		Sound (NC)	-	-	-	20	25	29	33	36	39	
0.18	6 x 6 8 x 4	Flow Rate (cfm)	36	54	72	90	108	126	144	162	180	
		Sound (NC)	-	-	-	20	25	29	33	36	39	
0.22	7 x 6 10 x 4	Flow Rate (cfm)	44	66	88	110	132	154	176	198	220	
		Sound (NC)	-	-	-	20	25	29	33	36	39	
0.26	8 x 6 12 x 4	Flow Rate (cfm)	52	78	104	130	156	182	208	234	260	
		Sound (NC)	-	-	-	20	25	29	33	36	39	
0.30	14 x 4	Flow Rate (cfm)	60	90	120	150	180	210	240	270	300	
		Sound (NC)	-	-	-	20	25	29	33	36	39	
0.34	10 x 6 16 x 4	Flow Rate (cfm)	68	102	136	170	204	238	272	306	340	
		Sound (NC)	-	-	-	20	25	29	33	36	39	
0.39	8 x 8 14 x 5	Flow Rate (cfm)	78	117	156	195	234	273	312	351	390	
		Sound (NC)	-	-	-	20	25	29	33	36	39	
0.46	20 x 4 16 x 5	Flow Rate (cfm)	92	138	184	230	276	322	368	414	460	
		Sound (NC)	-	-	-	20	25	29	33	36	39	
0.52	24 x 4 18 x 5	Flow Rate (cfm)	104	156	208	260	312	364	416	468	520	
		Sound (NC)	-	-	-	20	25	29	33	36	39	
0.60	28 x 4 20 x 5	Flow Rate (cfm)	120	180	240	300	360	420	480	540	600	
		Sound (NC)	-	-	-	20	25	29	33	36	39	
0.69	30 x 4 24 x 5	Flow Rate (cfm)	138	207	276	345	414	483	552	621	690	
		Sound (NC)	-	-	-	20	25	29	33	36	39	
0.81	36 x 4 28 x 5	Flow Rate (cfm)	162	243	324	405	486	567	648	729	810	
		Sound (NC)	-	-	-	20	25	29	33	36	39	
0.90	40 x 4 30 x 5	Flow Rate (cfm)	180	270	360	450	540	630	720	810	900	
		Sound (NC)	-	-	-	20	25	29	33	36	39	
1.07	48 x 4 36 x 5	Flow Rate (cfm)	214	321	428	535	642	749	856	963	1070	
		Sound (NC)	-	-	-	20	25	29	33	36	39	
1.18	34 x 6 24 x 8	Flow Rate (cfm)	236	354	472	590	708	826	944	1062	1180	
		Sound (NC)	-	-	-	20	25	29	33	36	39	
1.34	60 x 4 48 x 5	Flow Rate (cfm)	268	402	536	670	804	938	1072	1206	1340	
		Sound (NC)	-	-	-	20	25	29	33	36	39	
1.60	72 x 4 30 x 8	Flow Rate (cfm)	320	480	640	800	960	1120	1280	1440	1600	
		Sound (NC)	-	-	-	20	25	29	33	36	39	
1.80	60 x 5 48 x 6	Flow Rate (cfm)	360	540	720	900	1080	1260	1440	1620	1800	
		Sound (NC)	-	-	-	20	25	29	33	36	39	
2.08	72 x 5 60 x 6	Flow Rate (cfm)	416	624	832	1040	1248	1456	1664	1872	2080	
		Sound (NC)	-	-	-	20	25	29	33	36	39	
2.45	72 x 6 48 x 8	Flow Rate (cfm)	490	735	980	1225	1470	1715	1960	2205	2450	
		Sound (NC)	-	-	-	20	25	29	33	36	39	
2.78	36 x 12 30 x 14	Flow Rate (cfm)	556	834	1112	1390	1668	1946	2224	2502	2780	
		Sound (NC)	-	-	-	20	25	29	33	36	39	
3.11	60 x 8 48 x 10	Flow Rate (cfm)	622	933	1244	1555	1866	2177	2488	2799	3110	
		Sound (NC)	-	-	-	20	25	29	33	36	39	
3.61	72 x 8 60 x 10	Flow Rate (cfm)	722	1083	1444	1805	2166	2527	2888	3249	3610	
		Sound (NC)	-	-	-	20	25	29	33	36	39	
4.29	48 x 14 36 x 18	Flow Rate (cfm)	858	1287	1716	2145	2574	3003	3432	3861	4290	
		Sound (NC)	-	-	-	20	25	29	33	36	39	
4.65	72 x 10 48 x 16	Flow Rate (cfm)	930	1395	1860	2325	2790	3255	3720	4185	4650	
		Sound (NC)	-	-	-	20	25	29	33	36	39	
5.58	72 x 12 60 x 14	Flow Rate (cfm)	1116	1674	2232	2790	3348	3906	4464	5022	5580	
		Sound (NC)	-	-	-	20	25	29	33	36	39	
6.25	72 x 14 60 x 16	Flow Rate (cfm)	1250	1875	2500	3125	3750	4375	5000	5625	6250	
		Sound (NC)	-	-	-	20	25	29	33	36	39	

Performance Notes

1. Tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. Air flow is in cfm.
3. All pressures are in in. w.g. s.p. = Static Pressure.
4. NC values are based on room absorption of 10 dB re 10⁻¹² Watts and one grille. Blanks (-) indicate an NC level below 15.
5. Does not include effects of ceiling radiation damper (10-FR, 10FF-FR).



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