DOOR/TRANSFER GRILLES

Nailor provides an assortment of door grilles that are designed to be completely sight proof and unobtrusive in appearance. They are constructed using extruded aluminum or steel materials. A fire-rated version is also available.

Aluminum – Models 51DGD, 51DGS Page F129
Steel – Models 61DGD, 61DGS, 61DGC Page F130
Steel Fire Rated – Models 61DGD-FR Page F131



Models 51DGD, 61DGD-FR



REVERSIBLE CORE

The versatile core in this series allows a combination of four different deflections and is removable without the need of special tools. Optional deflector vanes and an opposed blade damper are available for additional air control.

Aluminum – Models 51RC, 51RCD Suffix '-O' adds a steel OBD Suffix '-OA' adds an aluminum OBD Page F134

Model 51RCD

HEAVY DUTY EXTRUDED ALUMINUM BAR GRILLES AND REGISTERS

The grilles in this series are constructed to offer strength and durability for applications requiring strong impact resistance. The extruded aluminum frames are staked and welded, and the extruded aluminum blades are offered with a 0°, 15°, or 30° fixed deflection. Available for both supply and return air applications.

SUPPLY AIR

FIXED FRONT BARS WITH REAR DEFLECTION VANES

This supply air grille has adjustable rear vanes for directional control. The fixed extruded aluminum front blades are supported by a deep profile cross bar for strength.

Models 51D30H-HD, 51D30V-HD, 51D15H-HD, 51D15V-HD, 51DFV-HD

Suffix '-O' adds a steel OBD

Suffix '-OA' adds an aluminum OBD



Model 51D15H-HD

ALUMINUM REVERSIBLE CORE GRILLES AND REGISTERS

SUPPLY OR RETURN

Models:

51RC

51RCD

- Suffix '-O' adds a steel opposed blade damper
- Suffix '-OA' adds an aluminum opposed blade damper



Model 51RCD

Nailor Models 51RC and 51RCD Reversible Core 'Linear Style' Grilles and Registers are designed to combine rugged aluminum construction, pleasing architectural design and flexible air pattern versatility. The blade core is removable and may be rotated or reversed to achieve any one of four air deflection patterns. The Model 51RCD incorporates a set of rear directional vanes that are individually adjustable for additional air pattern control in supply applications.

STANDARD FEATURES:

- Blade core is secured by a minimum of four sliding friction latches and is removable without the need for special tools.
- For additional air pattern control in supply applications, these grilles are available with optional rear deflection vanes, (on 3/4" [19] centers), which are friction pivoted and adjustable in order to provide horizontal spread of the air pattern from 0° to 45°.
- Type N standard fastening is with sheet metal screws through neck of grille frame while core is removed, providing a clean, architectural appearance.
- Optional Type A countersunk screw holes on frame available.
- Available in sizes from 6" x 4" to 48" x 24" (152 x 102 to 1219 x 610) in single section construction.

CONSTRUCTION MATERIAL:

- High quality extruded aluminum frame with reinforced mitered corners.
- Horizontal aluminum blades are spaced on 1/4" (6) centers and feature mandrel tube construction.
- Optional steel opposed blade damper has a screwdriver slot operator for adjustment through the face of the register.
- Optional aluminum opposed blade damper is available.

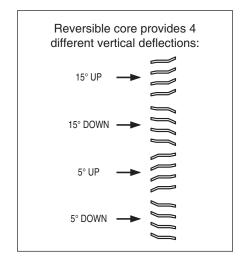
FINISH OPTIONS:

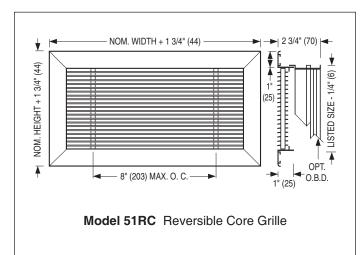
• AW Appliance White finish is standard. Other finishes are available.

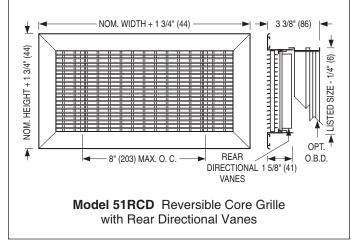
OPTIONS AND ACCESSORIES:

- IS Insect Screen
- PF Plaster Frame
- GK Foam Gasket

• EQT Earthquake Tabs For additional options and accessories, see page F191.







PERFORMANCE DATA:

REVERSIBLE CORE GRILLES AND REGISTERS • 51RC SERIES

MODELS: 51RC, 51RCD

Listed Duct	Alternate	Core	Ak	Core Veloc Velocity Pr		200 .003	300 .006	400 .010	500 .016	600 .022	700 .031	800 .040	900 .051	1000 .062
Size (inches)	Sizes (inches)	Area (sq. ft.)	Factor	Total Pressure	0° 22 1/2° 45°	.007 .008 .013	.016 .019 .029	.029 .033 .051	.045 .052 .079	.065 .075 .113	.089 .102 .156	.117 .134 .205	.147 .169 .258	.181 .209 .318
	0 v 4			CFM Noise Criter	ia	40 –	60 _	80	100	120 18	140 23	160 27	180 30	200 33
6 x 6	8 x 4 10 x 4	0.20	.14 .13 .12	Throw	0° 22 1/2° 45°	2-5-10 2-4-8 1-2-5	5-7-13 4-6-10 3-4-7	7-9-16 6-7-13 4-5-8	8-12-18 6-10-14 4-6-9	10-14-20 8-11-16 5-7-10	11-15-21 9-12-17 6-8-11	12-16-23 10-13-18 6-8-12	14-17-24 11-14-19 7-8-12	15-18-25 12-14-20 8-9-13
	10 5			CFM Noise Criter	ia	54	81 _	108	135	162 19	189 24	216 28	243 31	270 34
8 x 6	10 x 5 12 x 4	0.27	.18 .17 .15	Throw	0° 22 1/2° 45°	2-5-12 2-4-10 1-2-6	5-8-15 4-6-12 3-4-8	8-12-18 6-10-14 4-6-9	10-14-20 8-11-16 5-7-10	11-16-23 9-13-18 6-8-12	13-18-25 10-14-20 7-9-13	15-19-27 12-15-22 8-10-14	16-20-28 13-16-22 8-10-14	17-21-30 14-17-24 9-11-15
	12 x 5		-	CFM Noise Criter	ia	70 –	105	140	175 15	210 20	245 25	280 29	315 32	350 35
10 x 6	16 x 4	0.35	.23 .21 .20	Throw	0° 22 1/2° 45°	3-6-14 2-5-11 1-3-7	6-9-18 5-7-14 3-5-9	9-13-21 7-10-17 5-7-11	10-16-24 8-13-19 5-8-12	12-19-26 10-15-21 6-10-13	15-20-28 12-16-22 8-10-14	17-21-30 14-17-24 9-11-15	19-22-31 15-18-25 9-11-15	20-23-33 16-18-26 10-12-17
				CFM Noise Criter	ia	76 _	114 -	152 -	190 16	228 21	266 26	304 30	342 33	380 36
8 x 8	14 x 5	0.38	.24 .22 .21	Throw	0° 22 1/2° 45°	3-6-15 2-5-12 1-3-7	6-9-19 5-7-15 3-5-10	9-14-22 7-11-18 5-7-11	11-16-25 9-13-20 6-8-13	13-19-27 10-15-22 7-10-14	16-21-29 13-17-23 8-11-15	18-22-32 14-18-26 9-11-16	18-23-32 14-18-26 9-11-16	19-24-34 15-19-27 10-12-17
				CFM Noise Criter		84	126	168	210 16	252 21	294 26	336 30	378 33	420 36
12 x 6	18 x 4	0.42	.27 .25 .23	Throw	0° 22 1/2° 45°	3-6-15 2-5-12 1-3-7	6-9-19 5-7-15 3-5-10	9-14-22 7-11-18 5-7-11	11-16-25 9-13-20 6-8-13	13-19-27 10-15-22 7-10-14	16-21-30 13-17-24 8-11-15	18-22-32 14-18-26 9-11-16	18-23-32 14-18-26 9-11-16	19-11-16 15-19-27 10-12-17
			.20	CFM Noise Criter	-	100	150	200	250	300 22	350 27	400 31	450 34	500 37
14 x 6	10 x 8	0.50	.32 .30 .27	Throw	0° 22 1/2° 45°	3-7-16 2-6-13 1-3-8	6-11-20 5-9-16 3-6-10	10-15-23 8-12-18 5-8-12	12-18-25 10-14-20 6-9-13	15-20-28 12-16-22 8-10-14	16-22-31 13-18-25 8-11-16	19-23-33 15-18-26 10-12-17	20-24-34 16-19-27 10-12-17	21-25-36 17-20-29 11-13-18
	10.0		.LI	CFM Noise Criter		116	174	232	290	348 23	406 28	464 32	522 35	580
12 x 8	16 x 6 24 x 4	0.58	.36 .33 .31	Throw	0° 22 1/2° 45°	3-7-17 2-6-14 1-3-8	7-11-21 6-9-17 4-6-11	10-15-24 8-12-19 5-8-12	12-19-27 10-15-22 6-10-14	15-21-30 12-17-24 8-11-15	17-23-32 14-18-26 9-12-16	20-24-34 16-19-27 10-12-17	21-26-36 17-21-29 10-13-18	22-27-38 18-22-30 11-14-19
	14 x 7		-	CFM Noise Criter	ia	122	183	244	305 18	366 23	427 28	488 32	549 35	610 38
10 x 10	26 x 4	0.61	.38 .35 .33	Throw	0° 22 1/2° 45°	3-7-17 2-6-14 1-3-8	7-11-21 6-9-17 4-6-11	10-16-24 8-13-19 5-8-12	13-19-28 10-15-22 7-10-14	16-21-30 13-17-24 8-11-15	17-23-32 14-18-26 9-12-16	20-24-35 16-19-28 10-12-18	22-27-37 18-22-30 11-13-18	23-28-39 18-22-31 12-14-20
	14 x 8			CFM Noise Criter		130	195	260	325 19	390 24	455 29	520 33	585 36	650 39
18 x 6	28 x 4 30 x 4	0.65	.41 .38 .44	Throw	0° 22 1/2° 45°	3-8-18 2-6-14 1-3-9	7-12-22 6-10-18 4-6-11	11-16-25 9-13-20 6-8-13	13-20-29 10-16-23 7-10-15	16-22-32 13-18-26 8-11-16	18-24-34 14-19-27 9-12-17	21-25-36 17-20-29 11-13-18	23-27-38 18-22-30 11-13-19	24-29-40 19-23-32 12-15-20
	20 x 6			CFM Noise Criter	ia	148 -	222 _	296 -	370 19	444 24	518 29	592 33	666 36	740 39
12 x 10	24 x 5	0.74	.46 .43 .39	Throw	0° 22 1/2° 45°	4-8-19 3-6-15 1-3-9	8-13-24 6-10-19 4-7-12	11-17-27 9-14-22 6-9-14	14-21-31 11-17-25 7-11-16	17-24-33 14-19-26 9-12-17	20-26-36 16-21-29 10-13-18	22-27-39 18-22-31 11-14-20	24-29-41 19-23-33 12-14-20	25-31-43 20-25-34 13-16-22
	16 x 8			CFM Noise Criter		160	240	320	400 20	480 25	560	640 34	720	800 40
22 x 6	28 x 5 36 x 4	0.80	.50 .46 .43	Throw	0° 22 1/2° 45°	4-8-20 3-6-16 1-3-10	8-13-25 6-10-20 4-7-13	11-18-28 9-14-22 6-9-14	15-22-32 12-18-26 8-11-16	18-25-35 14-20-28 9-13-18	20-27-38 16-22-30 10-14-19	23-28-41 18-22-33 12-14-21	25-30-43 20-24-34 12-15-21	26-32-45 21-26-36 13-16-23
	14 x 10		.40	CFM Noise Criter	-	180	270	360	450	540	630	720	810	900
12 x 12	18 x 8 24 x 6 38 x 4	0.90	.55 .51 .47	Noise Criter Throw	0° 22 1/2° 45°	4-9-21 3-7-17 1-4-10	9-14-26 7-11-21 5-7-13	12-18-29 10-14-23 6-9-15	20 15-23-33 12-18-26 8-12-17	25 18-26-36 14-21-29 9-13-18	30 21-27-39 17-22-31 11-14-20	34 24-29-42 19-23-34 12-15-21	37 26-31-45 21-25-36 13-15-22	40 27-33-47 22-26-38 14-17-24

For performance data notes, see F137.

PERFORMANCE DATA:

REVERSIBLE CORE GRILLES AND REGISTERS • 51RC SERIES

MODELS: 51RC, 51RCD

				Core Velocity		200	300	400	500	600	700	800	900	1000
Listed	Alternate	Core	A I.	Velocity Pressi	ıre	.003	.006	.010	.016	.022	.031	.040	.051	.062
Duct Size	Sizes	Area	Ak Factor	-	0°	.007	.016	.029	.045	.065	.089	.117	.147	.181
(inches)	(inches)	(sq. ft.)	1 46101	Total Pressure	22 1/2°	.008	.019	.033	.052	.075	.102	.134	.169	.209
(11101100)					45°	.013	.029	.051	.079	.113	.156	.205	.258	.318
				CFM Noise Criteria		226 –	339	452 -	565 21	678 26	791 31	904 35	1017 38	1130 41
18 x 10	30 x 6	1.13	.69	Noise officia	0°	4-10-23	9-15-29	14-20-33	17-25-36	20-29-40	24-30-43	27-33-46	28-34-48	30-36-51
			.64	Throw	22 1/2°	3-8-18	7-12-23	11-16-26	14-20-29	16-23-32	19-24-34	22-26-37	22-27-38	24-29-41
			.59		45°	1-5-11	5-8-15	7-10-17	9-13-18	10-15-20	12-15-22	14-17-23	14-17-24	15-18-26
	16 x 12			CFM Naisa Cuitania		248	372	496	620	744	868	992	1116	1240
14 x 14	20 x 10	1.24	.75	Noise Criteria	0°	5-12-26	11-18-33	- 16-25-39	21 20-29-42	26 24-33-47	31 27-36-51	35 31-39-54	38 33-40-57	41 35-42-60
	24 x 8 34 x 6		.70	Throw	22 1/2°	4-10-21	9-14-26	13-20-31	16-23-34	19-26-38	22-29-41	25-31-43	26-32-46	28-34-48
	34 X O		.64		45°	2-6-13	6-9-17	8-13-20	10-15-21	12-17-24	14-18-26	16-20-27	16-20-28	18-21-30
	16 x 14			CFM Naisa Ositasia		274	411	548	685	822	959	1096	1233	1370
18 x 12	22 x 10	1.37	.83	Noise Criteria	0°	- 5-12-26	11-18-33	15 16-25-39	22 20-30-43	27 24-33-47	32 28-36-51	36 32-39-54	39 33-41-58	42 35-43-61
10 % 12	28 x 8	1.07	.03 .77	Throw	22 1/2°	4-10-21	9-14-26	13-20-31	16-24-34	19-26-38	22-29-41	26-31-43	26-33-46	28-34-49
	38 x 6		.71		45°	2-6-13	6-9-17	8-13-20	10-15-22	12-17-24	14-18-26	16-20-27	16-20-29	18-22-31
				CFM		304	456	608	760	912	1064	1216	1368	1520
24 x 10	20 x 12	1.52	00	Noise Criteria	00	- 0.10.00	- 10 10 05	15	22	27	32	36	39	42
24 7 10	30 x 8	1.02	.92 .85	Throw	0° 22 1/2°	6-12-28 5-10-22	12-19-35 10-15-28	16-25-41 13-20-33	21-32-45 17-26-36	25-35-50 20-28-40	29-38-53 23-30-42	34-41-57 27-33-46	35-43-61 28-34-49	37-45-65 30-36-51
			.79		45°	3-6-14	6-10-18	8-13-21	11-16-23	13-18-25	15-19-27	17-21-29	17-21-30	19-23-32
	40 44			CFM		328	492	656	820	984	1148	1312	1476	1640
16 v 16	18 x 14 22 x 12	1.64		Noise Criteria		_	-	15	22	27	32	36	39	42
16 x 16	30 x 8	1.04	.99 .92	Throw	0° 22 1/2°	6-13-30 5-10-24	12-20-37 10-16-30	17-26-42 14-21-34	22-32-47 18-26-38	26-37-51 21-30-41	31-40-56 25-32-45	35-42-59 28-34-47	37-45-64 30-36-51	39-47-67 31-38-54
	00 % 0		.85	IIIIOW	45°	3-6-15	6-10-19	9-13-21	11-16-24	13-19-26	16-20-28	18-21-30	18-22-32	20-24-34
	18 x 16	6		CFM		370	555	740	925	1110	1295	1480	1665	1850
04 = 10	20 x 14	1.85		Noise Criteria		_	_	16	23	28	33	37	40	43
24 x 12	30 x 10	1.85	1.11 1.03	Throw	0° 22 1/2°	6-13-30 5-10-24	12-20-38 10-16-30	18-27-44 14-22-35	22-33-48 18-26-38	27-38-54 22-30-43	32-40-58 26-32-46	36-44-62 29-35-50	38-46-65 30-37-52	40-48-69 32-38-55
	36 x 8		.95	IIIIOW	45°	3-6-15	6-10-19	9-14-22	11-17-24	14-19-27	16-20-29	18-22-31	19-23-32	20-24-35
	20 x 16			CFM		420	630	840	1050	1260	1470	1680	1890	2100
40 40	24 x 14	0.10		Noise Criteria		-	-	16	23	28	33	37	40	43
18 x 18	28 x 12	2.10	1.25 1.16	Throw	0° 22 1/2°	6-14-32 5-11-26	13-21-40 10-17-32	19-29-47 15-23-38	24-36-52 19-29-42	29-40-57 23-32-46	33-43-62 26-34-50	38-47-66 30-38-53	40-49-70 32-39-66	42-52-74 34-42-59
	32 x 10		1.10	IIIIOW	45°	3-7-16	7-11-20	10-15-24	12-18-26	15-20-29	17-22-31	19-24-33	20-24-35	21-26-37
	20 x 18			CFM		464	696	928	1160	1392	1624	1856	2088	2320
00 40	22 x 16	0.00		Noise Criteria		_	-	17	24	29	34	38	41	44
30 x 12	26 x 14	2.32	1.40	Throw	0° 22 1/2°	7-15-34	14-23-43	21-31-50	26-39-56	31-43-61	36-47-67	41-50-71	44-53-75	46-56-79 32-45-63
	36 x 10		1.30 1.20	Throw	45°	6-12-27 3-7-17	11-18-34 7-12-22	17-25-40 11-16-25	21-31-45 13-20-28	25-34-49 16-22-31	29-38-54 18-24-34	33-40-57 21-25-36	35-42-60 22-26-37	23-28-40
				CFM		500	750	1000	1250	1500	1750	2000	2250	2500
04 - 40	00 10	0.50		Noise Criteria		_	_	17	24	29	34	38	41	44
24 x 16	32 x 12	2.50	1.49 1.38	Throw	0° 22 1/2°	7-16-36 6-13-29	14-24-45 11-19-36	22-32-52 18-26-42	27-40-58 22-32-46	32-45-64 26-36-51	37-49-68 30-39-54	43-52-74 34-42-59	46-55-78 37-44-62	48-58-82 38-46-66
			1.28	TIIIOW	45°	3-8-18	7-12-23	11-16-26	14-20-29	16-23-32	19-25-34	22-26-37	23-27-39	24-29-41
				CFM		522	783	1044	1305	1566	1827	2088	2349	2610
	00 15	0.01		Noise Criteria		_	-	17	24	29	34	38	41	44
20 x 20	22 x 18	2.61	1.55	Throw	0°	7-16-37	15-24-46	22-32-53	27-41-59	32-46-65	38-50-70	44-53-75	46-56-80	49-59-84
			1.44 1.33	Throw	22 1/2° 45°	6-13-30 3-8-18	12-19-37 8-12-23	18-26-42 11-16-27	22-33-47 14-21-30	26-37-52 16-23-33	30-40-56 19-25-35	35-42-60 22-27-38	37-45-64 23-28-40	39-47-67 25-30-42
	22 x 20			CFM	-	558	837	1116	1395	1674	1953	2232	2511	2790
	24 x 18			Noise Criteria		_	_	17	24	29	34	38	41	44
36 x 12	26 x 16	2.79	1.67	Th	0°	7-16-38	15-25-48	23-34-55	28-42-61	34-48-68	4-51-73	45-55-77	47-58-82	50-61-86
	30 x 14		1.55 1.44	Throw	22 1/2° 45°	6-13-30 3-8-19	12-20-38 8-13-24	18-27-44 12-17-28	22-34-49 14-21-31	27-38-54 17-24-34	32-41-58 20-26-37	36-44-62 23-28-39	38-46-66 23-29-41	40-49-69 25-31-43
	04 11 00		1.77	CFM	10	634	951	1268	1585	1902	2219	2536	2853	3170
	24 x 20 26 x 18			Noise Criteria		-	-	18	25	30	35	39	42	45
22 x 22	30 x 16	3.17	1.89		0°	8-18-40	17-27-50	24-36-58	29-45-65	36-50-71	42-54-77	47-58-82	50-62-87	53-65-92
	40 x 12		1.76	Throw	22 1/2°	6-14-32	14-22-40	19-29-46	23-36-52	29-40-57	34-43-62	38-46-66	40-50-70	42-52-74
			1.62		45°	4-9-20	9-14-25	12-18-29	15-23-33	18-25-36	21-27-39	24-29-41	25-31-43	27-33-46

For performance data notes, see F137.

PERFORMANCE DATA:

REVERSIBLE CORE GRILLES AND REGISTERS • 51RC SERIES

MODELS: 51RC, 51RCD

Listed	Alternate	Core Area (sq. ft.)		Core Velocity Velocity Press	lire	200 .003	300 .006	400 .010	500 .016	600 .022	700 .031	800 .040	900 .051	1000 .062
Duct Size (inches)	Sizes (inches)		Ak Factor	Total Pressure	0° 22 1/2° 45°	.007 .008 .013	.016 .019 .029	.029 .033 .051	.045 .052 .079	.065 .075 .113	.089 .102 .156	.117 .134 .205	.147 .169 .258	.181 .209 .318
				CFM Noise Criteria		654 _	981 -	1308 18	1635 25	1962 30	2289 35	2616 39	2943 42	3270 45
42 x 12	36 x 14	3.27	1.95 1.81 1.68	Throw	0° 22 1/2° 45°	8-18-41 6-14-33	17-27-51 14-22-41	24-36-59 19-29-47	30-45-66 24-36-53	36-51-72 29-41-58	42-55-77 34-44-62	48-59-83 38-47-66 24-30-42	50-63-88 40-50-70	53-66-93 42-53-74 27-33-47
	24 x 22		1.00	CFM Noise Criteria	40	708	9-14-26 1062	12-18-30 1416 18	15-23-33 1770 25	18-26-36 2124 30	21-28-39 2478 35	2832 39	25-31-44 3186 42	3540 45
30 x 18	34 x 16 40 x 14	3.54	2.10 1.95 1.81	Throw	0° 22 1/2° 45°	9-18-42 7-14-34 4-9-21	18-28-53 14-22-42 9-14-27	25-37-61 20-30-49 13-19-31	31-47-69 25-38-55 16-24-35	37-53-75 30-42-60 19-27-38	44-57-81 35-46-65 22-29-41	50-61-86 40-49-69 25-31-43	53-65-92 42-52-74 26-32-46	56-69-97 45-55-78 28-35-49
	26 x 22 28 x 20		1.01	CFM Noise Criteria	-10	758	1137	1516	1895 25	2274 30	2653 35	3032	3411 42	3790 45
24 x 24	32 x 18 36 x 16	3.79	2.25 2.09 1.93	Throw	0° 22 1/2° 45°	9-19-44 7-15-35 4-9-22	18-29-55 14-23-44 9-15-28	26-39-62 21-31-50 13-20-31	33-48-70 26-38-56 17-24-35	39-55-77 31-44-62 20-28-39	45-59-83 36-47-66 23-30-42	51-62-89 41-50-71 26-31-45	54-66-94 43-53-75 27-33-47	57-70-99 46-56-79 29-35-50
	32 x 20			CFM Noise Criteria		858 -	1287 -	1716 19	2145 26	2574 31	3003 36	3432 40	3861 43	4290 46
36 x 18	40 x 16 46 x 14	4.29	2.53 2.36 2.18	Throw	0° 22 1/2° 45°	9-20-46 7-16-37 4-10-23	19-31-58 15-25-46 10-16-29	28-42-68 22-34-54 14-21-34	35-52-75 28-42-60 18-26-38	42-58-83 34-46-66 21-29-42	48-63-89 38-50-71 24-32-45	55-68-95 44-54-76 28-34-48	58-71-101 46-57-81 29-35-50	61-75-106 49-60-85 31-38-53
	28 x 24			CFM Noise Criteria		894 -	1341 -	1788 19	2235 26	2682 31	3129 36	3576 40	4023 43	4470 46
26 x 26	48 x 14	4.47	2.62 2.44 2.25	Throw	0° 22 1/2° 45°	9-21-47 7-17-38 4-10-23	19-32-59 15-26-47 10-16-30	28-43-69 22-34-55 14-22-35	35-53-77 28-42-62 18-27-32	43-59-85 34-47-68 22-30-43	49-65-91 39-52-73 25-33-46	56-69-98 45-55-78 28-35-49	60-73-103 48-58-82 30-36-51	63-77-109 50-62-87 32-39-55
	32 x 22			CFM Noise Criteria		954 _	1431 -	1908 19	2385 26	2862 31	3339 36	3816 40	4293 43	4770 46
30 x 24	36 x 20 40 x 18	4.77	2.81 2.62 2.42	Throw	0° 22 1/2° 45°	10-22-49 8-18-39 5-11-24	20-33-61 16-26-49 10-17-31	29-44-71 23-35-57 15-22-36	36-54-79 29-43-63 18-27-40	44-61-87 35-49-70 22-31-44	51-67-94 41-54-75 26-34-47	58-71-101 46-57-81 29-36-51	62-75-106 50-60-85 31-37-53	65-79-112 52-63-90 33-40-56
	30 x 26			CFM Noise Criteria		1040 -	1560 -	2080 20	2600 27	3120 32	3640 37	4160 41	4680 44	5200 47
28 x 28	36 x 22 40 x 20	5.20	3.09 2.88 2.66	Throw	0° 22 1/2° 45°	10-22-50 8-18-40 5-11-25	21-34-63 17-27-50 11-17-32	30-45-74 24-36-59 15-23-37	38-56-82 30-45-66 19-28-41	45-63-90 36-50-72 23-32-45	53-69-97 42-55-78 27-35-49	60-74-104 48-59-83 30-37-52	64-78-110 51-62-88 32-39-55	67-82-116 54-66-93 34-41-58
	40 x 22			CFM Noise Criteria		1148 -	1722 -	2296 20	2870 27	3444 32	4018 37	4592 41	5166 44	5740 47
36 x 24	44 x 20	5.74	3.38 3.15 2.91	Throw	0° 22 1/2° 45°	11-24-54 9-19-43 5-12-27	23-36-68 18-29-54 12-18-34	32-49-78 26-39-62 16-25-39	41-60-88 33-48-70 21-30-44	49-68-96 39-54-77 25-34-48	57-74-104 46-59-83 29-37-52	64-78-112 51-62-90 32-39-56	68-84-118 54-67-94 34-42-59	72-88-124 58-70-99 36-44-62
	36 x 28			CFM Noise Criteria		1344 -	2016 -	2688 21	3360 28	4032 33	4704 38	5376 42	6048 45	6720 48
42 x 24	42 x 24 46 x 22	6.72	3.95 3.68 3.40	Throw	0° 22 1/2° 45°	12-26-58 10-21-46 6-13-29	24-39-72 19-31-58 12-20-36	34-51-84 27-41-67 17-26-42	43-64-93 34-51-74 22-32-47	51-72-102 41-58-82 26-36-51	60-78-111 48-62-89 30-39-56	68-84-118 54-67-94 34-42-59	73-88-125 58-70-100 36-44-62	77-93-132 62-74-106 39-47-66
26 4 20	38 x 28	7.00		CFM Noise Criteria		1444 -	2166 -	2888 21	3610 28	4332 33	5054 38	5776 42	6498 45	7220 48
36 x 30	JU X 20	7.22	4.23 3.94 3.64	Throw	0° 22 1/2° 45°	12-26-61 10-21-49 6-13-30	25-40-76 20-32-61 13-20-38	36-54-87 29-43-70 18-27-44	45-68-98 36-54-78 23-34-49	54-76-108 43-61-86 27-38-54	63-82-116 50-66-93 32-41-58	71-87-124 57-70-99 36-44-62	76-93-132 61-74-106 38-46-66	80-98-139 64-78-111 40-49-70
	34 x 34			CFM Noise Criteria		1538 -	2307 15	3076 22	3845 29	4614 34	5383 39	6152 43	6921 46	7690 49
48 x 24	36 x 32 38 x 30 42 x 28	7.69	4.51 4.20 3.88	Throw	0° 22 1/2° 45°	13-27-62 10-22-50 6-13-31	26-41-77 21-33-62 13-22-39	37-55-90 30-44-72 19-28-45	46-69-100 37-55-80 23-45-50	55-77-109 44-62-87 28-39-55	64-84-118 51-67-94 32-42-59	73-90-127 58-72-102 37-45-64	78-95-135 62-76-108 39-47-67	82-100-142 66-80-114 41-50-71

Performance Notes:

- 1. All pressures are in inches w.g..
- 2. Core Velocity is in feet per minute.
- 3. Tabulated data includes opposed blade damper. Without OBD, multiply Total Pressure (TP) by x 0.8. Subtract 4 Noise Criteria (NC) from the Noise Criteria value shown.
- 4. Throw values are given for terminal velocities
- of 150, 100 and 50 fpm under isothermal conditions.
- 5. Noise Criteria (NC) values were obtained using a 0° horizontal deflection rear blade setting. For deflection settings of 22 1/2° and 45°, add 2 and 7 NC to the tabulated NC level respectively.
- 6. When used as a return grille, the negative static pressure is obtained by multiplying the
- tabulated Total Pressure @ 0° deflection by x 0.8. Add 4 Noise Criteria to the Noise Criteria value shown.
- 7. Noise Criteria (NC) values are based on a room absorption of 10 dB, re 10⁻¹² watts. Dash (–) in space denotes a Noise Criteria level of less than 15.
- 8. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 2006.

HOW TO ORDER

MODEL SERIES: 51RC, 51RCD

REVERSIBLE CORE GRILLES AND REGISTER

EXAMPLE: 51RC - O - 24 x 12 - S - AW - DMI - N - —

1. Models

51RC Aluminum Construction51RCD Aluminum Construction with Rear Vanes

2. Damper (OBD)

(model suffix)

O Steel

OA Aluminum

— None

3. Nominal Width x Height

inches (mm)

4. Frame/Border Type

S Surface Mount Border 1 1/4" (32)

(default)

5. Finish

AW Appliance White (default)

AL Aluminum BK Black

BW British White

LBP Light Bronze Paint

MBP Medium Bronze Paint

DBP Dark Bronze Paint

MI Mill

PC Prime Coat

PPA Paint Prepared Aluminum

SP Special Custom Color

6. Opposed Blade Damper Finish

DMI Mill (default)

DBK Painted Black

7. Fastening

N None (default)

A Countersunk Screw Holes

OPTIONS & ACCESSORIES:

None (default)

8. Plaster Sub-Frame

PF Plaster Sub-Frame

9. Insect Screen

IS Insect Screen

10. Gaskets

GK Foam Gasket

11. Earthquake Tabs

EQT Earthquake Tabs

Notes:

1. For a standard grille with no special requirements, specification is only required as far as the damper selection. The "default" will automatically be selected. For example, an aluminum reversible core register, and steel damper, is Model 51RC-O. Unit will be supplied with no screw holes and AW Appliance White finish.

HOW TO SPECIFY

MODEL SERIES: 51RC, 51RCD

REVERSIBLE CORE GRILLES AND REGISTER

SUGGESTED SPECIFICATION:

Furnish and install **Nailor Model** (select one) **51RC** or **51RCD** (with rear vanes) Reversible Core Grilles of the types and sizes as shown on the plans and air distribution schedules. The grille shall have extruded aluminum blades and frame. The blade core is to be removable and may be rotated or reversed to achieve any one of four air deflection patterns. The finish shall be AW Appliance White (optional finishes are available).

(Optional) An opposed blade damper, constructed of heavy gauge corrosion-resistant steel (aluminum is optional) and operable from the face of the grille, shall be provided with all units.

The manufacturer shall provide published performance data for the grille, which shall be tested in accordance with ANSI/ASHRAE Standard 70 – 2006.

PRODUCT OVERVIEW **OPTIONS AND ACCESSORIES** FOR GRILLES AND REGISTERS

MOUNTING FRAMES

- Up to four methods of fastening available for most
- Sub-frame available for professionally finished openings.
- Surface mount adapter frame for plaster and sheet rock ceilings are available in steel and aluminum. They simplify installation, save time and allow ceiling plenum access.
- Panel mounting available to suit architectural ceiling systems.

OPTIONS

- A selection of optional items that are available on grilles and registers.
- Information on custom sizing for special applications.

FINISHES

- Selection of standard and non-standard finishes to choose from.
- Anodizing of aluminum products.

AIR BALANCING DEVICES

- Opposed blade dampers for every application.
- Volume extractors.

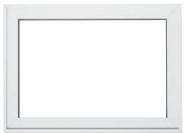
Effective air balancing of an HVAC System requires the correct selection, specification and installation of the right product to suit the system design.

Nailor offers a comprehensive range of models and options to cover all applications.

Nailor balancing devices are:

- Easy to select and specify. Many items can be supplied as factory mounted or packaged accessories on grilles and registers.
- Designed to offer a smooth, accurate and predictable response during adjustment for precise air metering.
- Designed to provide quick access and adjustment.
- Engineered with attention to optimizing airflow, in order to minimize noise, turbulence and pressure drop.

Model PF Sub-Frame



Model DFA

Drywall/Plaster Frame Surface Mount Ceiling Adapter



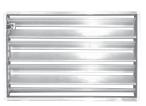




Model OBD Opposed Blade Damper

Steel, Neck Mount

Model OBDD Opposed Blade Damper Steel, Duct Mount

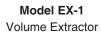


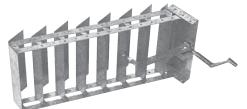


Model OBD-A Opposed Blade Damper Aluminum, Neck Mount

Model OBD-SS Opposed Blade Damper Stainless Steel, Neck Mount







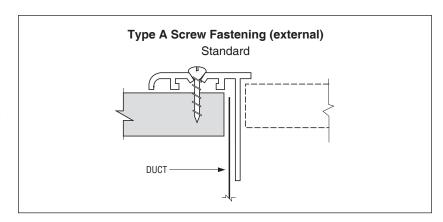
Model EX-1 Volume Extractor

Fastening and Border Frames

Type A Screw Fastening (External)

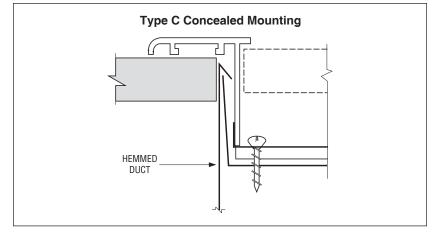
Standard method of fastening for all Nailor grilles and registers in surface mount applications. All Nailor grilles and registers are supplied this way unless specified otherwise. Universal application for all models and cost effective installation.

Screw holes are countersunk in the frame for most models to provide an aesthetically pleasing appearance and are sized for #8 x 1 1/2" (38) ovalhead screws which are supplied from the factory packed with each grille or register and are painted to match the specified finish.



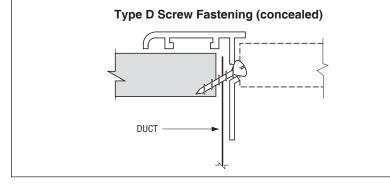
Type C Concealed Mounting

Grilles and registers are supplied with concealed mounting straps (at additional cost) which permit surface mounting with concealed screws, allowing a clean frame appearance. The bracket is shipped loose for installation in the field (by others). The bracket attaches to the back of the grille screws to an adjustable mounting strap which can either be secured directly to the duct wall or hooked into a hem formed in the end of the duct. Not available on return grilles with 1/2" (13) spacing and a fixed angled blade deflection. Maximum size: 36" x 36" (914 x 914).



Type D Screw Fastening (Concealed)

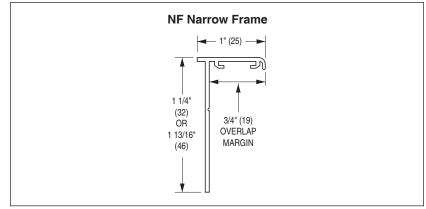
Screw holes are provided in the neck of the grille or register frame. Screws are field installed at an angle through the grille frame and into the ductwork, providing a clean frame appearance. Installation is more difficult than Type A due to the space constriction between the grille blades. Care must be taken not to bend or scratch the grille. Not recommended on return air grilles with a fixed angled blade deflection as accessibility to screw holes is greatly restricted.



Type NF Narrow Frame

An optional reduced 1" (25) wide narrow border frame is available on most aluminum models to satisfy architectural considerations.

See individual models for availability.

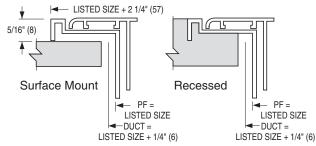


F192

Mounting Frames

PF Plaster/Mounting Frame

Available (at additional cost) with most standard steel and aluminum grilles and registers. The Model PF Plaster Frame is constructed from extruded aluminum and provides a convenient and professional way for finishing off the grille or register opening. It provides a stable anchor for attachment, while enabling the grille or register to be detached and replaced readily without disturbing the finished surface of the wall or ceiling opening. It may be used for surface mounting on various materials or recess mounted in wet plaster.



DFS (Steel), DFA (Aluminum) Drywall/Plaster Frame

Model PF Plaster Frame

The DF Series are for mounting in finished drywall or plaster ceilings to accept any standard lay-in type grille, register, diffuser or other ceiling component. Installation of the air outlet is as simple as inserting them in a standard lay-in T-Bar type ceiling system.

The DF Series simplifies and reduces installation time compared with surface mount type diffusers. This is especially true where flexible duct is utilized. A major benefit is that the DF Series allows access to the ceiling plenum space above for maintenance purposes without the need for separate access doors. The finished appearance is professional and aesthetically pleasing.

Standard Finish: AW Appliance White. Other finishes are available.

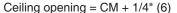
Model DFS is installed quickly and easily using adjustable fastening angle brackets which adapt to various ceiling thicknesses. Frames are roll-formed corrosion-resistant steel with staked and mittered corners.

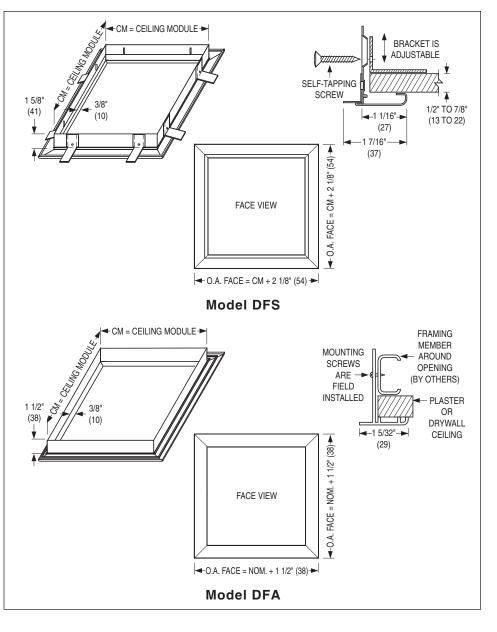
IMPE MOD	METRIC MODULES	
Imperial Units (inches)	S.I. Units (mm)	S.I. Units (mm)
12 x 12	305 x 305	300 x 300
16 x 16	406 x 406	400 x 400
20 x 20	508 x 508	500 x 500
24 x 12	610 x 305	600 x 300
24 x 24	610 x 610	600 x 600

Ceiling opening = CM + 1/4" (6)

Model DFA requires framing of the ceiling opening with 'C' channel or wood studs for attachment with mounting screws (by others).

IMPE MOD	METRIC MODULES	
Imperial Units (inches)	S.I. Units (mm)	S.I. Units (mm)
12 x 12	305 x 305	300 x 300
16 x 16	406 x 406	400 x 400
20 x 20	508 x 508	500 x 500
24 x 12	610 x 305	600 x 300
24 x 24	610 x 610	600 x 600
36 x 24	914 x 610	900 x 600
48 x 12	1219 x 305	1200 x 300
48 x 24	1219 x 1219	1200 x 600
60 x 12	1524 x 305	1500 x 300





Panel Mounting/Ceiling Modules

A panel can be added to the majority of Nailor's steel and aluminum return grilles to suit many special architectural ceiling designs and ceiling module sizes. These panel mount grilles are available in corrosion-resistant steel for the 6100 series steel grilles and both aluminum and corrosion-resistant steel for the 5100 and 7100 series aluminum grilles.

To specify a steel panel; add the suffix S to the end of the selected panel variant. To specify an aluminum panel; add the suffix A to the end of the selected panel variant. e.g. If a steel panel is required with a Spline Type ceiling module, the variant code will become SPS.

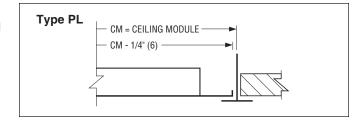
The maximum grille neck sizes available for panel mounting will be the ceiling module size selected - 3" (76).

Available Ceiling Module Sizes

Ceiling Module						
Imperial Units (in.)	Metric Units (mm)					
12 x 12	300 x 300					
24 x 12	600 x 300					
36 x 12	900 x 300					
48 x 12	1200 x 300					
20 x 20	500 x 500					
24 x 24	600 x 600					
36 x 24	900 x 600					
48 x 24	1200 x 600					

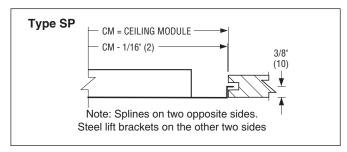
Border Type PL: Lay-in T-Bar

Grille or register is mounted in an extended panel to suit standard T-Bar Lay-in Type ceilings.



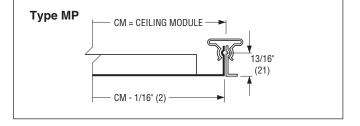
Border Type SP: Spline

The grille or register is mounted in an extended panel to suit spline type ceiling modules.



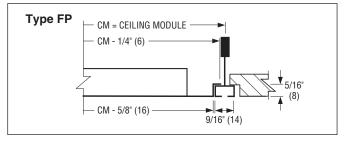
Border Type MP: Metal Pan/Snap-in

The grille or register is mounted in an extended panel to suit metal pan ceilings that have snap-in type ceiling modules.



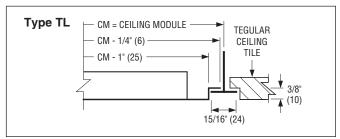
Border Type FP: Narrow Regressed T-Bar (Fineline®)

The grille or register is mounted in an extended panel that will fit a narrow regressed T-Bar ceiling grid.



Border Type TL: Tegular Type T-Bar

The grille or register is mounted in a panel that will extend below the T-Bar ceiling grid.



Options, Custom Sizing and Finishes

OPTIONS:

RACA Return Air Crosstalk Attenuator

Return Air Crosstalk Attenuator is designed to greatly reduce the amount of sound transferred from the return air plenum through open vents or return grilles, into the adjoining space.

EQT Earthquake Tabs

Earthquake (seismic) retaining safety tabs are available; factory installed on grilles or registers when required by local building code that units be independently restrained and safety wired to supporting structure.

GK Foam Gaskets

An optional foam gasket is available factory installed on the rear of all Type S corrosion-resistant steel and aluminum surface mount grilles and registers.

Eliminates air leakage and the possibility of dirt streaking and smudging from entrainment, particularly when installed on unevenly finished surfaces such as stucco.

IS Insect Screen

1/16" (2) galvanized steel mesh, factory installed.

CUSTOM SIZING:

Oversized Units

For specialized applications and architectural considerations; certain grilles and registers can be manufactured in single sections larger than the standard published maximum size at additional cost. Aspect ratio, tolerances, manufacturing capability and weight have all to be considered by the factory prior to acceptance. Consult your Nailor representative for specific applications.

Fractional/Hard Metric Sizes

Nailor grilles and registers have been designed and are manufactured to suit HVAC systems where the duct design has been done using Imperial Units of measurement (i.e. feet and inches). The majority of Nailor grilles and registers are fabricated as standard in 1" (25) nominal incremental units, giving the designer great flexibility during sizing selection.

At additional cost, the majority of Nailor grilles and registers can be custom fabricated in fractional sizes for special applications and in Hard Metric (S.I. Units) when the HVAC duct design has been done using the Metric System.

Consult your Nailor representative for availability on specific project applications.

FINISHES:

POWDER COAT

AW Appliance White (standard)

A white finish that is currently the industry standard. Closely matches standard finishes supplied by the majority of T-Bar ceiling system manufacturers. (No additional cost).

AL Aluminum

Contains suspended metal particles to give the appearance of a silver grey metallic or anodized finish. (No additional cost).

WH Off-White

Has a creamy appearance. (Additional cost)

BW British White

Matches most white ceiling tiles. (No additional cost)

LBP Light Bronze Paint

An economical alternative that closely matches industry standard anodizing in color, sheen and appearance. (Additional cost)

MBP Medium Bronze Paint

An economical alternative that closely matches industry standard anodizing in color, sheen and appearance. (Additional cost)

DBP Dark Bronze Paint

An economical alternative that closely matches industry standard anodizing in color, sheen and appearance. (Additional cost)

BK Black

This black has a matte finish. (Additional cost)

SP Special

The Nailor range of diffusers are available in any color for special architectural consideration. Custom colors are individually mixed to match customer supplied samples. (Additional cost)

ALUMINUM PRODUCT FINISHES:

SA Satin (Clear) Anodized

Adds a smooth satin finish to further protect the aluminum from corrosion (clear). (Additional cost)

STAINLESS STEEL PRODUCT FINISH ONLY:

#4 Brushed Satin Polished

Stainless Steel models only. (No additional cost)

ALSO AVAILABLE:

MI Mill Finish

(No additional cost).

PPA Paint Prepared Aluminum (Washed only)

(No additional cost).

PC Prime Coat Paint

Color will vary (Additional cost).

Sound Reduction for Return Air Grilles

RETURN AIR CROSSTALK ATTENUATOR - STEEL - RETURN AIR GRILLES

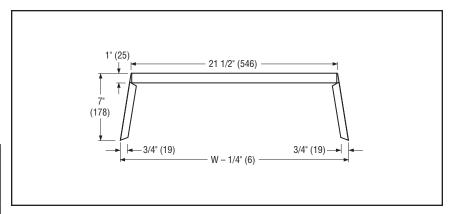
Nailor Model RACA Return Air Crosstalk Attenuator is designed to greatly reduce the amount of sound transferred from the return air plenum through open vents or return grilles, into the adjoining space. For use with non-ducted return grilles in Lay-in T-Bar applications, the RACA allows return air to flow through with minimal pressure drop, while reducing the sound transmission by 7 – 10 NC. Constructed of 22 gauge galvanized steel, the compact, light weight design takes up minimal space in the return plenum, rests on the ceiling grid for easy installation and works effectively as a light shield. Available with 1" (25) fiberglass insulation as standard or optional 1" (25) fiber-free closed cell foam insulation. The RACA fits standard grille sizes and is ideal for interior offices, conference rooms, hotel rooms as well as recording studios.

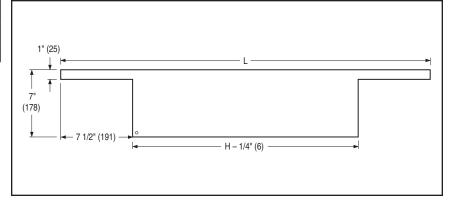
FEATURES:

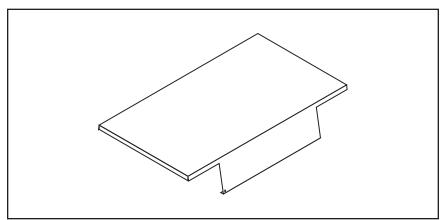
- · Economical and light- weight design.
- · Fits standard grille sizes.
- · Easy installation sits on ceiling grid.
- Compact design takes up minimal space in return plenum.
- 1" (25) fiberglass insulation (standard).

DIMENSIONAL DATA:

CM Ceiling Module	W	Н	L
12" x 12" (305 x 305)	12" (305)	12" (305)	26 1/2" (673)
24" x 12" (610 x 305)	24" (610)	12" (305)	26 1/2" (673)
20" x 20" (508 x 508)	20" (508)	20" (508)	34 1/2" (876)
24" x 24" (610 x 610)	24" (610)	24" (610)	38 1/2" (978)
30" x 30" (762 x 762)	30" (762)	30" (762)	44 1/2" (1130)
48" x 24" (1219 x 610)	48" (1219)	24" (610)	38 1/2" (978)







Air Balancing Devices

OPPOSED BLADE DAMPERS — STEEL AND ALUMINUM

Nailor Opposed Blade Dampers are manufactured from heavy gauge, roll-formed, corrosion-resistant steel or extruded aluminum blades and frame with miscellaneous steel components.

The gang operated multi-blade design with blades closing at 45 degrees permits fine volume control for accurate balancing with minimum disturbance to the airflow pattern. Blades are individually pivoted on 1" (25) centers.

GRILLE MOUNT MODELS:

OBD Steel

OBD-A Aluminum

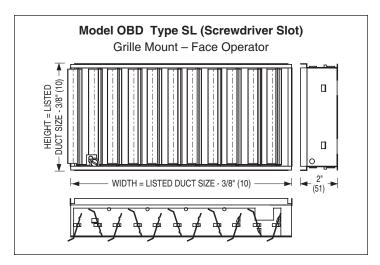
This style of damper mounts directly on the neck of the grille and is sized to fit most Nailor grilles. Uses steel barbed S-clips for easy field mounting or removal when ordered separately. Supplied as standard with a screwdriver slot operator (Type SL) on supply registers and a screwdriver pivot lever operator (Type PL) on fixed, angled deflection return registers. Type SL operator is standard if damper is ordered separately from grille. A lever operator (Type GL) is available as an option on fixed, angled deflection return registers.

Can be specified as an integral part of the grille (register) by adding a - O (steel) or - OA (aluminum) suffix to the grille model.

Min. Size = 4" x 2 1/2" (102 x 64) Max. Size = 24" x 24" (610 x 610).

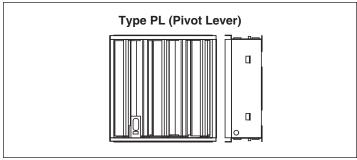
Type SL Operator

The SL Operator incorporates a screwdriver slot, which adjusts from the face of the register. This operator is the standard supplied with supply air registers such as the single and double deflection adjustable blade.



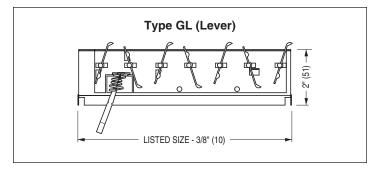
Type PL Operator

The PL Operator is a concealed pivot lever, which is adjusted from the face of the register using a screwdriver. This operator is for use only on fixed blade, angled deflection, return air grilles. When specifying, the blade orientation of the damper must be opposite of the grille.



Type GL Operator

The GL Operator incorporates a lever that adjusts without the use of tools. The lever operator extends through the grille face and is an alternative for fixed blade, angled deflection, return air grilles. When specifying, the blade orientation of the damper must be opposite of the grille being used and the grille model must be specified.



Air Balancing Devices

DUCT MOUNT MODELS:

OBDD Steel

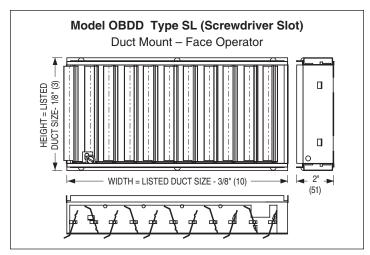
OBDD-A Aluminum

Designed for field installation, this damper mounts independently in the duct, separate from and behind the grille. Sized to suit and offer a friction fit in nominally sized ducts. Secure the dampers with 1/2" (13) long sheet metal screws (by others) through the double walled sub-frame. Supplied as standard with a screwdriver slot operator (Type SL).

Min. Size = 4" x 2 1/2" (102 x 64) Max. Size = 24" x 24" (610 x 610)

Type SL Operator

These models are supplied with a screwdriver slot face operator that is accessed from inside the duct by removing the grille.



Type EH Operator

The EH Operator incorporates an external hex device that penetrates the duct wall to provide control. For use with 3/16" (5) Allen key wrench (by others).

Type EN Operator

The EN Operator incorporates an external (nylon) screwdriver slot device. This device is controlled externally through the duct.

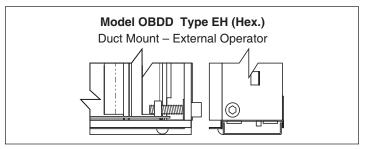
Type QD Operator *

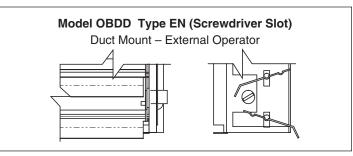
The QD Operator includes a nylon snap-in extension that fits an external (nylon) operator. This device also includes a hand locking quadrant operator for control and position indication.

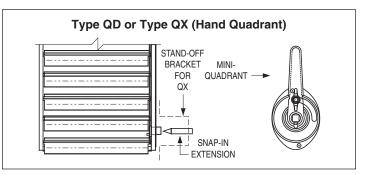
Type QX Operator *

The QX Operator includes a nylon snap-in extension that fits an external (nylon) operator. This device also includes a 2" (51) stand-off bracket and hand locking quadrant for control and position indication. To ensure quadrant is located on vertical side of duct, specify damper with blades parallel to the horizontal duct dimension.

*Not available on Model OBDD-A







Nailor®

Air Balancing Devices

OPPOSED BLADE DAMPERS — STAINLESS STEEL

Nailor Stainless Steel Opposed Blade Dampers feature heavy gauge, roll-formed blades and a heavy duty frame in all stainless steel construction. Type 304 stainless steel is standard with Type 316 as an available option.

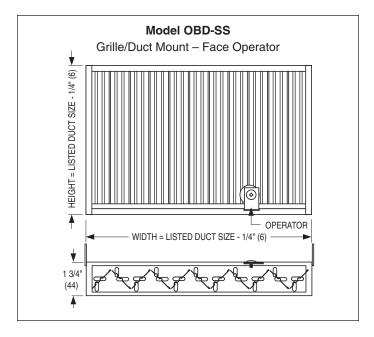
The gang operated multi-blade design with blades closing at 45 degrees permits fine volume control for accurate balancing with minimum disturbance to the airflow pattern. Blades are individually pivoted on 1" (25) centers.

GRILLE/DUCT MOUNT MODELS:

OBD-SS Stainless Steel

When ordered as part of the stainless steel grille, (using the suffix '-O' on the model number), the dampers are factory welded to the grille frame to provide a secure non-removable connection. If the dampers are ordered separately, they are supplied with mounting tabs. The tabs allow the dampers to be field installed onto a grille or to be mounted independently in the duct, separate from and behind the grille.

All Nailor stainless steel dampers feature a Philip's head screwdriver operator that is accessed through the face of the grille.



Volume Extractors

MODEL SERIES

Blades on 2" centers EX

EXD Blades on 1" centers

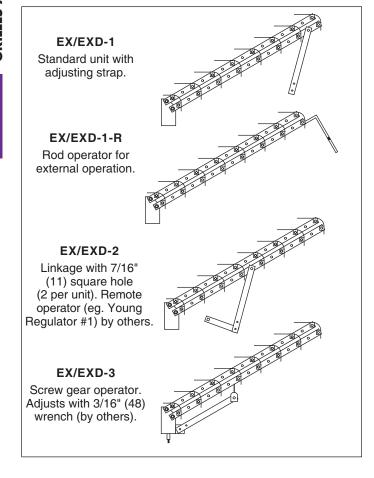
The Model Series EX Volume Extractors uniformly divert air from the main duct into the branch take-off and across the face of a grille or diffuser. Gang-operated parallel blades available on 2" (51) or 1" (25) centers pivot from full open to full closed with blades overlapping for shut-off. The curved blade design improves airflow by reducing turbulence, thereby reducing noise and pressure drop.

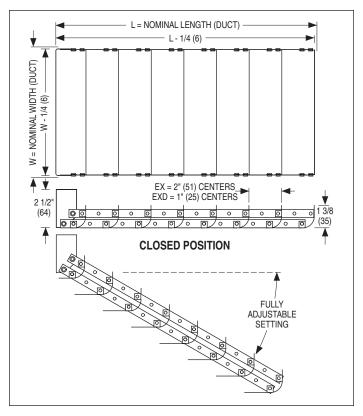
Specify or order: Length x Width. (Length is first dimension. Blades are parallel to width, second dimension).

FEATURES:

- Material: Galvanized steel.
- Minimum size: 6" x 4" (152 x 102).
- Maximum size: 36" x 36" (914 x 914).

Operator Types





Optional Accessories

