

MODEL

- 1850 - Supply or return linear bar grille with lay-in, removable core for floor applications

FEATURES

- Extruded aluminum construction
- 0° or 15° blade deflection
- 1/4" (normal) or 1/2" (every other) bar spacing
- 1/8" blade thickness
- Removable core
- Section lengths range from 6" to 72" long; units longer than 72" will consist of sections butted together.

GRILLE SIZES

- Length: 6" - 999" (1/16" increments)
- Width: 2" - 24" (1/4" increments)

FRAME STYLES

- H - 1 1/4" curved flange
- M - 1" flange
- N - 3/16" flange ¹

COMPATIBLE OPTIONS AND ACCESSORIES

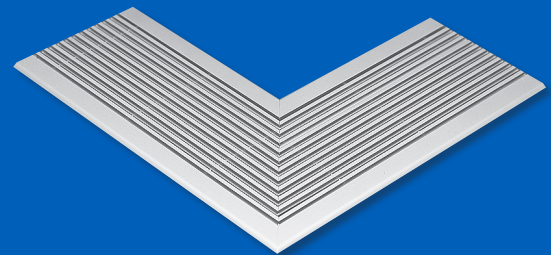
- Custom curving, available on request
- Screw holes or spring clips
- Mitered corners (model 1850MC)
- Core clips
- LOBD - Steel, linear opposed blade damper
- 5LOBD - Aluminum, linear opposed blade damper
- SBD - Steel, single blade damper
- 5SBD - Aluminum, single blade damper
- LSG - Linear straightening grid
- BOS - Blank-off strip

NOTES: Not all options available with all configurations or one another. See website for complete compatibility.

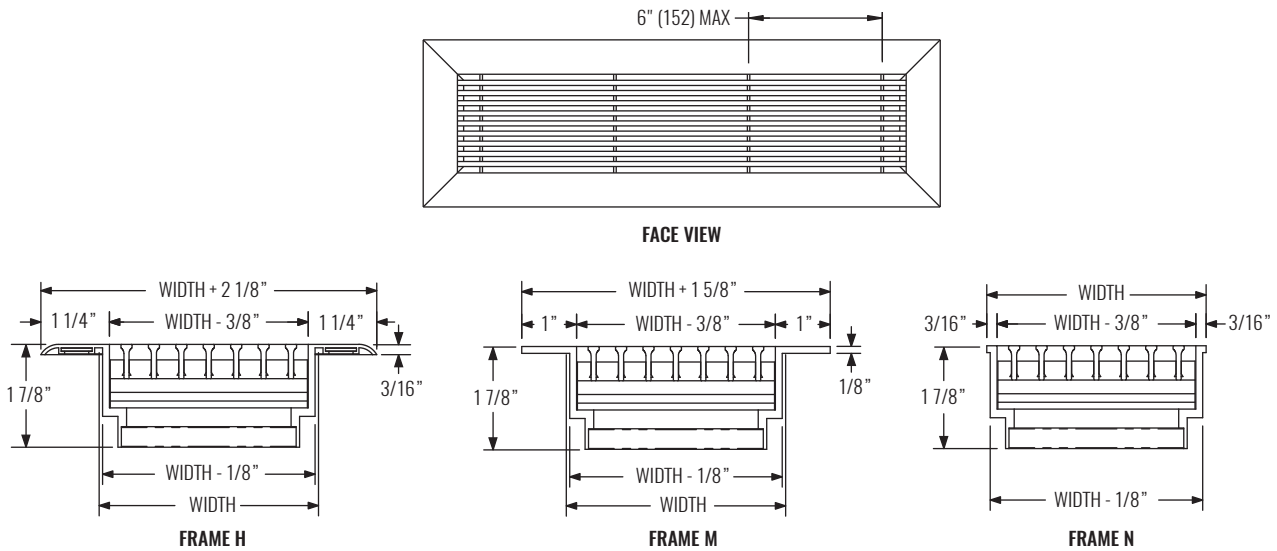
¹ Fastening methods not available with Frame N.



1850

CORRESPONDING MITERED CORNER, 1850MC.
CO CONSTRUCTION SHOWN.

DIMENSIONAL DATA



NOTES: Dimensions in parentheses are millimeters (mm). Nominal duct equals ordered size. See website for complete 1850 grille length and width dimensional information. Suggested floor opening for spring clip fastening is nominal width + 1/4". Suggested floor opening for all other fastening is nominal duct + 1/16". Frame N intended to be installed flush with floor and supported from below by others.

PERFORMANCE DATA

SIZE	PERFORMANCE - 48" UNIT LENGTH															
	0° DEFL, 1/8" BARS, 1/4" SPACING				0° DEFL, 1/8" BARS, 1/2" SPACING				15° DEFL, 1/8" BARS, 1/4" SPACING				15° DEFL, 1/8" BARS, 1/2" SPACING			
	NC (< 25)		NC (25 - 40)		NC (< 25)		NC (25 - 40)		NC (< 25)		NC (25 - 40)		NC (< 25)		NC (25 - 40)	
WIDTH	CFM/ft	THROW (ft)	CFM/ft	THROW (ft)	CFM/ft	THROW (ft)	CFM/ft	THROW (ft)	CFM/ft	THROW (ft)	CFM/ft	THROW (ft)	CFM/ft	THROW (ft)	CFM/ft	THROW (ft)
2"	20-60	11-22	80-100	26-29	40-80	18-26	100-140	29-34	30-50	16-20	60-90	22-27	40-70	18-24	85-115	27-31
3"	60-100	22-29	120-180	32-39	60-140	22-34	180-220	39-43	40-80	16-26	100-140	29-34	80-120	26-32	140-200	34-41
4"	70-130	24-32	160-250	36-46	100-190	29-40	235-325	44-52	50-110	17-30	140-200	34-41	100-160	29-36	190-280	40-48
5"	130-190	33-40	220-310	43-51	140-240	34-45	290-390	49-57	60-140	18-34	180-260	39-46	120-200	32-41	240-320	45-51
6"	140-220	34-43	260-380	46-56	150-270	35-47	330-510	52-65	80-160	22-36	200-320	41-51	140-240	34-45	290-390	49-57
7"	170-250	37-46	305-440	50-60	175-315	38-51	385-555	56-67	90-190	22-39	240-360	44-54	170-280	37-48	335-445	52-60
8"	200-300	41-50	350-500	54-64	200-360	41-55	440-600	60-70	100-220	23-43	280-400	48-58	200-320	41-51	380-500	56-64
9"	200-325	41-52	385-535	56-66	250-380	45-56	470-700	52-75	120-250	26-45	315-445	51-61	210-350	41-54	420-560	59-68
10"	200-350	41-54	425-575	59-69	300-400	50-58	500-800	64-81	140-280	29-48	350-490	54-64	220-380	42-56	460-620	62-72
12"	220-380	40-56	460-700	62-76	350-550	54-67	650-950	73-89	180-320	34-51	390-600	57-70	250-430	44-60	520-790	66-81

SEE BACK SUPPLEMENT FOR DESIGN INFORMATION

NOTES: Information shown is abbreviated. See website for complete information. Throw value ranges are given for isothermal conditions, unless otherwise noted, and a terminal velocity of 50 FPM (0.25 m/s). Throw measured at same angle of bar deflection with 0° being perpendicular to the grille face. NC ranges are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10⁻¹² Watts. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741.