

MODEL

- 1800 - Supply or return linear bar grille with lay-in, removable core for floor applications

FEATURES

- Extruded aluminum construction
- 0°, 15°, or 30° blade deflection
- 1/2" (normal) or 7/16" (pencil proof) bar spacing ¹
- 7/32" 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" - 12" (1/4" increments)

FRAME STYLES

- H - 1 1/4" curved flange
- M - 1" flange
- N - 3/16" flange ²

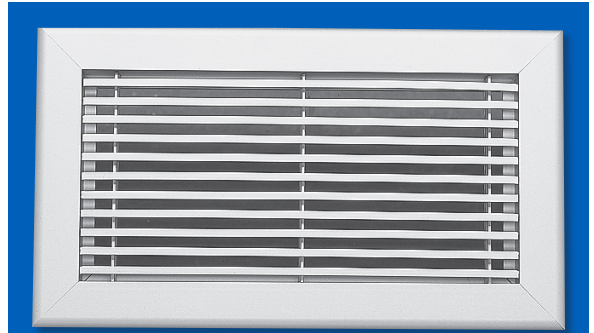
COMPATIBLE OPTIONS AND ACCESSORIES

- Custom curving, available on request
- Screw holes or spring clip fastening
- Core clips
- Mitered corners (model 1800MC)
- LOBD - steel linear opposed blade damper
- 5LOBD - aluminum linear opposed blade damper
- SBD - steel single blade damper
- 5SBD - aluminum single blade damper
- BOS - Blank-off strip
- LSG - Linear straightening grid

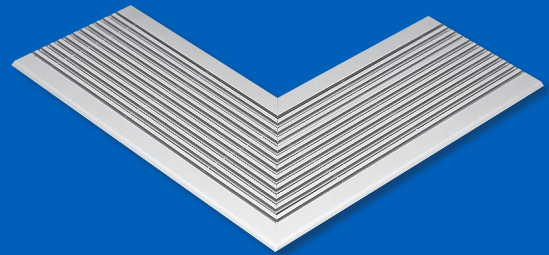
NOTES: Not all options available with all configurations or one another. See website for complete compatibility.

¹ 15° deflection is only available with normal spacing. 30° deflection is only available with pencil proof spacing.

² Fastening methods not available with Frame N.

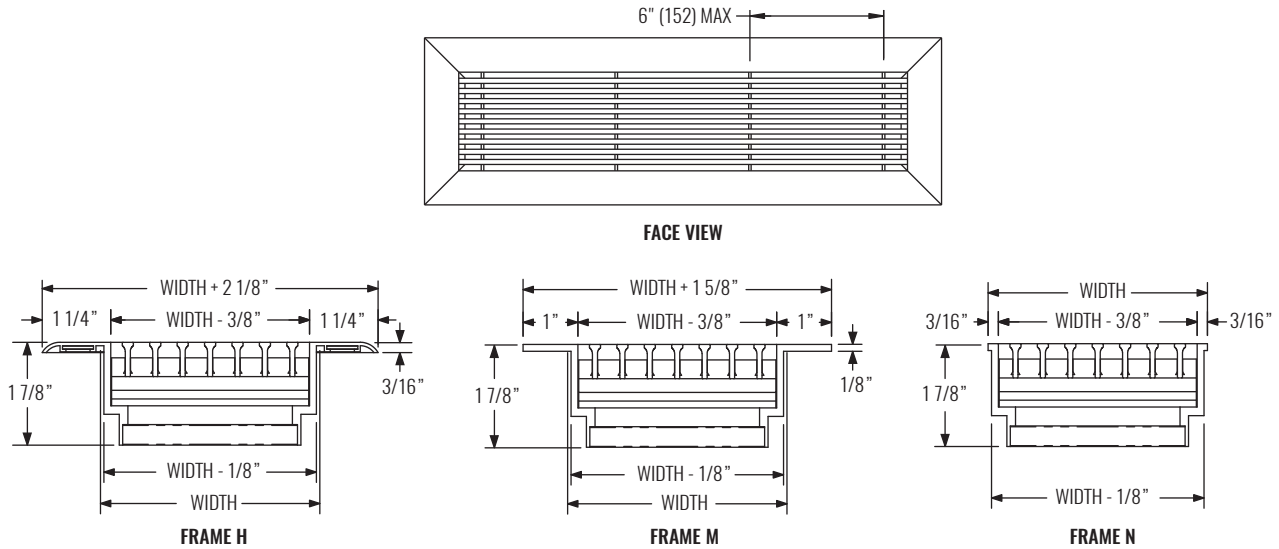


1800



CORRESPONDING MITERED CORNER, 1800MC. CO CONSTRUCTION SHOWN.

DIMENSIONAL DATA



NOTES: Dimensions in parentheses are millimeters (mm). Nominal duct equals ordered size. See website for complete 1800 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, 7/32" BARS, 1/2" SPACING				0° DEFL, 7/32" BARS, 7/16" SPACING				15° DEFL, 7/32" BARS, 1/2" SPACING				30° DEFL, 7/32" BARS, 7/16" 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"	40-55	18-21	70-115	24-31	40-70	18-24	85-130	27-33	40-50	18-20	60-90	22-27	40-50	18-20	60-90	22-27
3"	70-95	24-28	120-170	32-38	60-110	22-30	135-210	33-42	70-85	24-27	100-145	29-35	50-80	20-26	95-140	28-34
4"	90-150	27-35	180-240	39-45	90-160	27-36	195-265	40-47	90-110	27-30	130-210	33-42	70-120	24-32	145-195	35-40
5"	100-180	28-39	220-300	43-50	100-190	28-40	235-325	44-52	100-130	29-33	160-250	36-46	80-140	24-34	170-260	38-46
6"	120-220	30-43	270-370	47-55	110-220	28-43	275-385	48-56	120-155	31-36	190-295	40-49	90-170	24-38	210-290	42-49
7"	135-245	31-45	300-440	49-60	135-260	31-47	320-460	52-61	125-190	30-40	245-340	44-52	115-195	28-40	235-335	44-52
8"	150-270	32-47	330-510	52-65	160-300	34-50	370-510	55-65	130-230	29-44	280-380	48-56	140-220	32-43	260-380	46-56
9"	160-300	32-49	365-570	55-68	170-330	34-53	410-570	58-68	140-250	29-46	305-445	50-60	150-250	32-45	300-450	49-61
10"	175-325	33-52	400-625	58-72	180-360	34-55	450-630	61-72	150-270	29-47	330-510	52-65	160-280	33-48	340-520	53-66
12"	200-380	34-56	470-650	62-73	220-420	37-59	520-820	66-82	175-315	31-51	385-595	56-70	180-320	33-51	390-600	57-70

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.