

## MODEL

- S85 - Steel, fixed deflection return with 1/2" blade spacing
- S585 - Aluminum, fixed deflection return with 1/2" blade spacing

## FEATURES

- Horizontal or vertical blades
- 35° (H/V) or 0° (HZ/VZ) blade deflection
- 1/2" blade spacing
- 48"x48" maximum single unit size

## GRILLE SIZES <sup>1</sup>

- Width: 6" - 240" (1/4" increments)
- Height: 4" - 240" (1/4" increments)

## FRAME STYLES

- F22 - Surface mount
- F23 - Lay-in T-bar <sup>2</sup>
- F98 - Narrow-T <sup>3</sup>

## PANEL SIZES

- 24"x12"
- 24"x24"
- 48"x24"

## COMPATIBLE OPTIONS AND ACCESSORIES

- Screw holes, concealed fastening <sup>4</sup>, knurled knob <sup>5</sup>, or 1/4-turn fasteners <sup>5</sup>
- 5FF - Filter frame to fit 1" or 2" filter by others (8"x8" to 48"x36" or 36"x48")
- 8PF - Steel plaster frame (48"x36" or 36"x48" max)
- 58PF - Aluminum plaster frame (48"x36" or 36"x48" max)
- OBD - Steel, square or rectangular damper
- 5OBD - Aluminum, square or rectangular damper
- POBD - Steel, square or rectangular painted damper
- SRAC325 - Steel, square to round adapter
- DS - Debris screen (1/4" mesh) or IS - Insect screen (1/16" mesh) <sup>6</sup>

NOTES: Not all options available with all configurations. Many options not compatible with other options. Size limitations on accessories. See website for complete compatibility.

<sup>1</sup> Max ordered size is 240"x96" or 96"x240". Units over 48"x48" provided in multiple sections

<sup>2</sup> Minimum of 4" difference required between inlet and panel size for F23.

<sup>3</sup> F98 only available with 24"x12" and 24"x24" panels.

<sup>4</sup> Concealed fastening available in max 36"x36" size.

<sup>5</sup> Knurled knob and 1/4 turn fastening methods are only available with filter frame accessory.

<sup>6</sup> Only available with model S585.

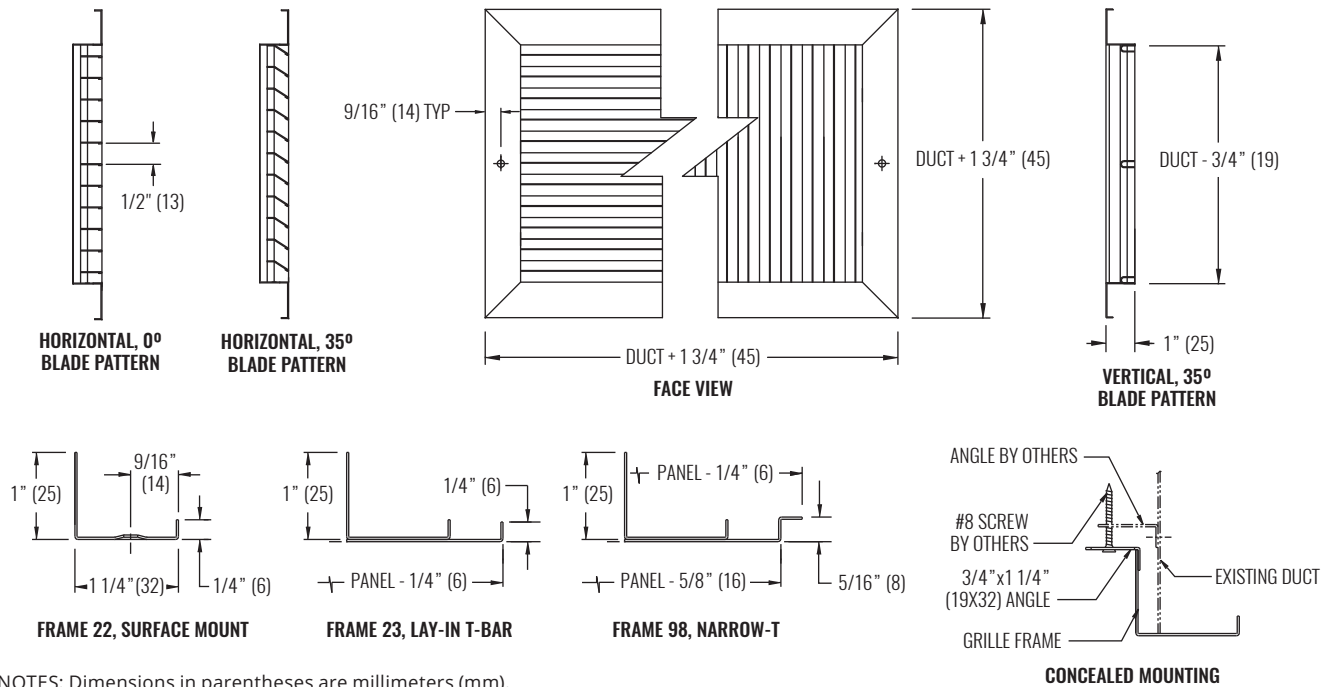


# S85 / S585

Return Grille, Fixed Deflection, 1/2" Blade Spacing



## DIMENSIONAL DATA



NOTES: Dimensions in parentheses are millimeters (mm).

## PERFORMANCE DATA

SIZE	PERFORMANCE		SIZE	PERFORMANCE	
	NC (< 25)	NC (25 - 40)		NC (< 25)	NC (25 - 40)
NOMINAL	CFM	CFM	NOMINAL	CFM	CFM
<b>0° DEFLECTION</b>			<b>35° DEFLECTION</b>		
6"x4"	25 - 113	134 - 200	6"x4"	25 - 75	88 - 125
6"x6"	50 - 175	206 - 300	6"x6"	25 - 113	134 - 200
8"x4"	50 - 150	175 - 250	8"x4"	25 - 100	119 - 175
8"x6"	50 - 225	269 - 400	8"x6"	25 - 150	181 - 275
8"x8"	75 - 300	356 - 525	8"x8"	25 - 188	228 - 350
10"x10"	125 - 450	531 - 775	10"x10"	50 - 288	347 - 525
12"x8"	125 - 438	516 - 750	12"x8"	50 - 275	331 - 500
12"x12"	175 - 638	753 - 1100	12"x12"	50 - 388	472 - 725
14"x14"	225 - 838	991 - 1450	14"x14"	75 - 513	622 - 950
20"x20"	450 - 1575	1856 - 2700	20"x20"	100 - 950	1163 - 1800
22"x10"	250 - 925	1094 - 1600	22"x10"	100 - 575	694 - 1050
22"x22"	550 - 1875	2206 - 3200	22"x22"	200 - 1150	1388 - 2100

SEE BACK SUPPLEMENT FOR DESIGN INFO

NOTES: Information shown is abbreviated. See website for complete information. Dimensions in parentheses are millimeters (mm). NC ranges are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10<sup>-12</sup> Watts. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741.