

ENGINEERING SPECIFICATION & CONFIGURATION

AFS580, AFS585

The return grille shall be a Krueger model AFS580 (3/4" blade spacing) or AFS585 (1/2" blade spacing). This grille must have extruded aluminum blades resulting in a fixed deflection of 45° or 0°. The extruded aluminum blades shall be constructed of no less than 0.040 - 0.050 thick aluminum. The blades must be held in place by mullions placed behind the grille and welded or crimped to the frame. The extruded aluminum frame must be constructed of no less than 0.040 - 0.050 thick aluminum with countersunk screw holes. This frame must also produce a border of 1 1/4" around all sides of the grille with mitered corners.

Optional damper shall be available made of heavy gage steel (OBD) or aluminum (5OBD) and operable from the face of the return grille.

PERFORMANCE

The manufacturer shall provide published performance data for the grille. The grille shall be tested in accordance to the data standards at the time of product introduction or ANSI/ASHRAE Standard 70.

FINISH

The paint finish shall be #44 British White and be an anodic acrylic paint, baked at 315°F for 30 minutes. The paint thickness shall be 0.8 - 1.0 mils, gloss at 60° per ASTM D523-89 of 50 - 85%, pencil hardness per ASTM D3363-92A of HB - H, crosshatch adhesion per ASTM D3359-83 of 4B - 5B, impact per ASTM D2794-93 of direct impact >100 in/lb and reverse impact >80 in/lb, salt spray per ASTM B117-9048 of 96 hours, humidity per ASTM D2247-92 of >500 hours and water soak per ASTM D870-92 of 250 hours.

1. SERIES: (XXXXXX)

- AFS580 - Fixed single deflection, 3/4" blade spacing aluminum return grille
- AFS585 - Fixed single deflection, 1/2" blade spacing aluminum return grille

2. PATTERN: (XX)

- H - 45° horizontal front blades
- V - 45° vertical front blades
- HZ - 0° horizontal front blades
- VZ - 0° vertical front blades

3. WIDTH: (XX) *

- 6" - 240" in 1/4" increments

4. HEIGHT: (XX) *

- 4" - 240" in 1/4" increments

5. FRAME STYLE: (XXX)

- F22 - Surface mount
- F23 - Lay-in T-bar
- F98 - Narrow-T
- FTB - Channel frame *

6. PANEL: (XX)x(XX)

- | | |
|---------|---------|
| NONE | 24"x24" |
| 24"x12" | 48"x24" |

7. FASTENING METHOD: (XX)

- 00 - No screw holes
- 01 - Standard screw holes
- 02 - Concealed mounting **
- 03 - Knurled knob ‡
- 08 - 1/4 turn fasteners ‡

8. DAMPER: (XX)

- 00 - No damper
- 01 - Steel opposed blade damper (model OBD)
- 15 - Aluminum opposed blade damper (model 5OBD)

9. ACCESSORIES: (XX) (XX)

- 00 - No accessories
- 01 - Plaster frame
- 04 - 1" filter frame ◊
- 05 - 2" filter frame ◊
- IS - Insect screen, 1/16" mesh ◊
- DS - Debris screen, 1/4" mesh ◊

10. FINISH: (XX) ***

- | | |
|------------|--------------------|
| 01 - Mill | 10 - Alumican |
| 35 - Black | 44 - British White |

* Maximum grille size is 240"x96" or 96"x240".

FTB channel frame not available on grilles larger than 48"x48".

** Concealed mounting not available on grilles larger than 36"x36" or Patterns H or V.

*** Off White and Anodized finishes available.

‡ Knurled knob and 1/4 turn fasteners only available with filter frame accessories.

◊ Accessories 04, 05, IS, and DS not available on grilles larger than 48"x48".

SAMPLE CONFIGURATION: AFS580 - H - 12x24 - F23 - 12"x24" - 00 - 00 - 00 - 44