



1900SQS

FEATURES

- Aluminum diffuser with steel backpan, round neck.
- 1 - 4 slots available in 3/4" and 1" slot widths.
- Blades are removable to allow diffuser to serve as a low-pressure-drop return.
- Airflow pattern is adjustable 1, 2, 3, and 4-way.
- Ceiling tile center receptacle. (Ceiling tile by others.)

Introduction: 1900SQS, 1900SQSI, 1900SQR

The 1900SQ series incorporates the optimal performance and versatility of a 1900 series linear diffuser with the attributes of a 24"x24" lay in panel diffuser. The 1900SQ is designed to allow a ceiling tile to be inserted in the face of the diffuser to provide a smooth, clean appearance with adjacent ceiling tiles. Additionally, the variety of finishes available allows the diffuser to blend, complement, or contrast with the ceiling system. The 1900SQ has individually adjustable blades to allow horizontal and vertical throw from the same unit. The blades can also be adjusted to blank off any side where throw is not required. When the diffuser is set in the 4-way discharge setting, typical isothermal throws of 12' to 24' can be achieved. This design makes Krueger's 1900SQ series diffuser an ideal choice for modular office spaces where room airflow patterns can be adjusted according to cubical layout and for non-standard ceiling height applications.

MODELS

- 1900SQS - Linear Slot Square Supply Diffuser
- 1900SQR - Linear Slot Square Return Diffuser
- 1900SQSI - Linear Slot Insulated Supply Diffuser

PANEL SIZES

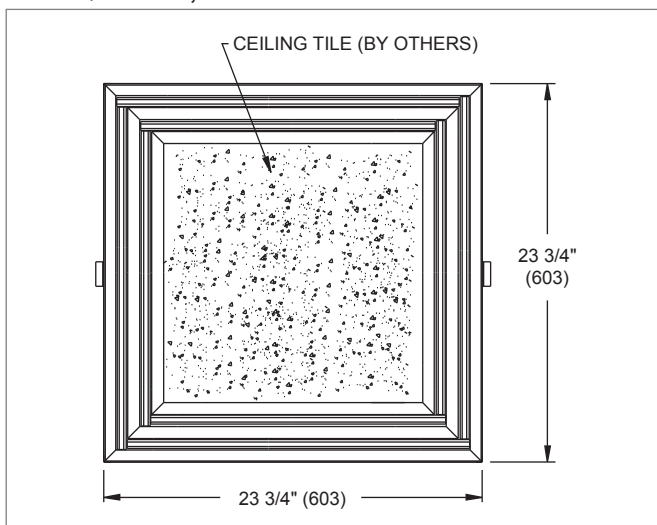
- 24"x24"

FINISHES

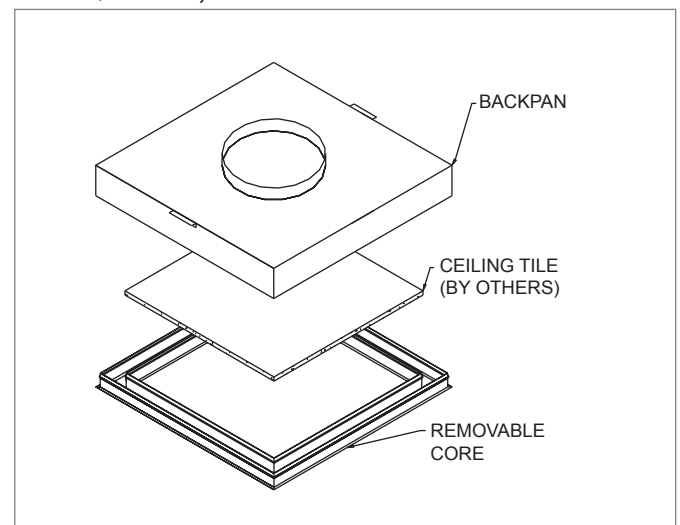
- Standard finish is #44 British White with Black blades.
- Optional finishes available.

1900SQS, 1900SQSI, 1900SQR Exploded Views

1900SQ SERIES, FACE VIEW



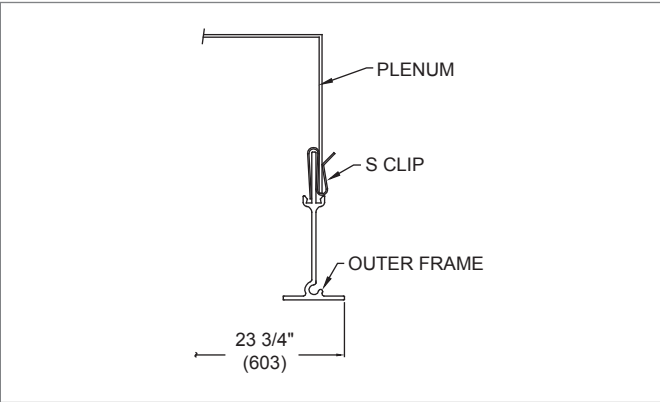
1900SQ SERIES, EXPLODED VIEW



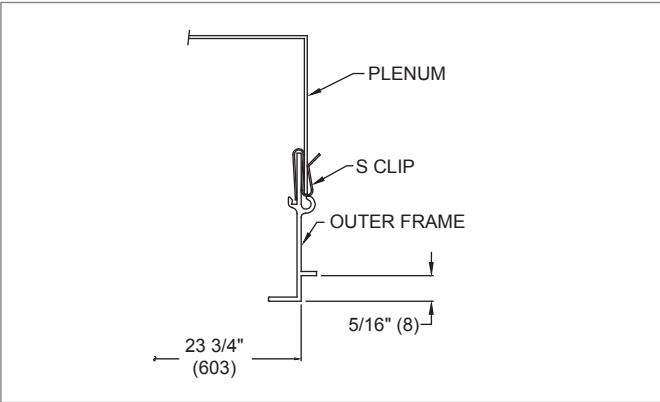
NOTES: Dimensions in parentheses are mm. Two-slot shown in drawing above.

1900SQS, 1900SQSI, 1900SQR Dimensional Information

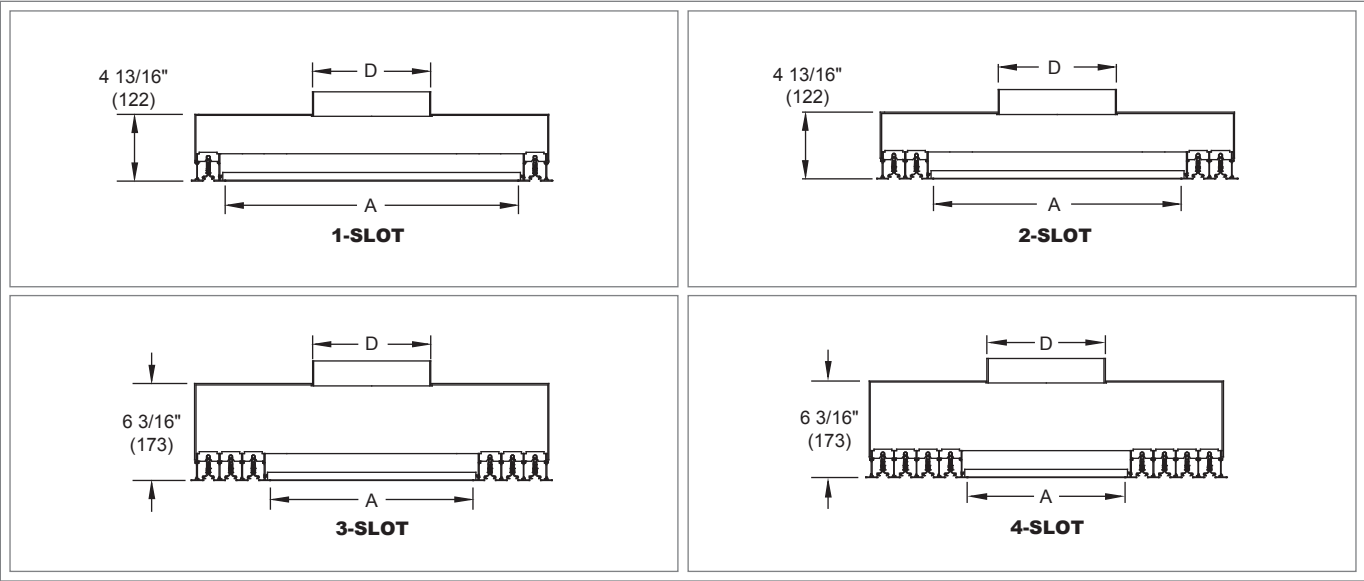
1900SQ SERIES, FRAME 23, LAY-IN T-BAR



1900SQ SERIES, FRAME 98, NARROW-T



1900SQ SERIES, CROSS SECTIONS & SLOT CONFIGURATIONS



1900SQ SERIES, DIMENSIONAL DETAIL

| Number of Slots | Slot Width | Frame 23 | | Frame 98 | |
|-----------------|------------|---------------|-----------|----------------|-----------|
| | | A | D | A | D |
| 1 | 3/4" (19) | 19 1/4" (489) | 8" (203) | 19 9/16" (497) | 8" (203) |
| 2 | | 16 1/4" (413) | 10" (254) | 16 9/16" (421) | 10" (254) |
| 3 | | 13 1/4" (337) | 12" (305) | 13 9/16" (344) | 12" (305) |
| 4 | | 10 1/4" (260) | 14" (356) | 10 9/16" (268) | 14" (356) |
| 1 | 1" (25) | 18 3/4" (476) | 8" (203) | 19 1/16" (484) | 8" (203) |
| 2 | | 15 1/4" (387) | 10" (254) | 15 9/16" (395) | 10" (254) |
| 3 | | 11 3/4" (298) | 12" (305) | 12 1/16" (306) | 12" (305) |
| 4 | | 8 1/4" (210) | 14" (356) | 8 9/16" (217) | 14" (356) |

NOTE: Dimensions in parentheses are mm.

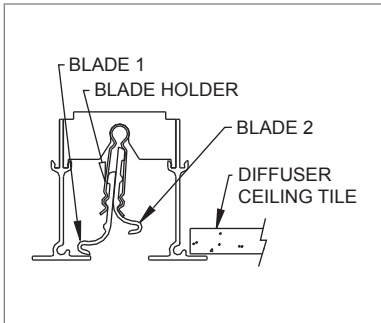
1900SQS, 1900SQSI, 1900SQR Airflow Adjustment & Details

AIRFLOW ADJUSTMENT

The 1900SQ series is capable of both volume and directional control. The blades pivot and slide up and down to give you total flexibility and control.

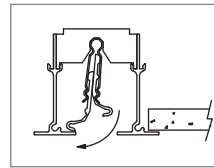
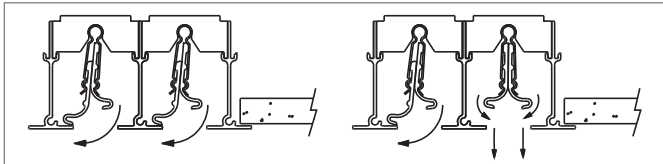
In the Blade Detail (below), locate the blades and blade holder. Each blade has three positions - up, mid, and down. Similarly, the blade holder has three positions - out, center, and in.

1900, BLADE DETAIL



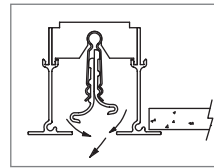
For this example, the blade holder is set to out; blade one is down and blade two is up. Keep in mind that slight variations in blade adjustment can have a big effect. The examples shown here are only a guide. In critical zones, actual airflow direction should be verified visually or by measurement.

MULTIPLE DIRECTIONAL THROW



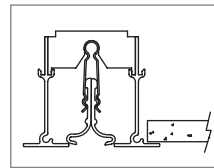
HORIZONTAL FULL FLOW

Blade Holder = Out
 Blade 1 = Down
 Blade 2 = Up
 Result: Creates tight ceiling pattern.



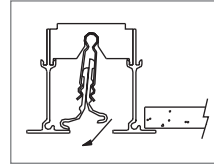
ANGLED FLOW

Blade Holder = Center
 Blade 1 = Mid
 Blade 2 = Up
 Result: Deflects the pattern down slightly.



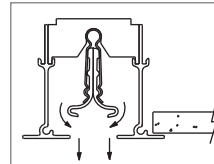
FULL DAMPERED

Blade Holder = Center
 Blade 1 = Down
 Blade 2 = Down
 Result: Full dampered flow that is to be used for volume control only.



HORIZONTAL DAMPERED FLOW

Blade Holder = Out
 Blade 1 = Down
 Blade 2 = Mid
 Result: Creates tight ceiling pattern with reduced air volume.

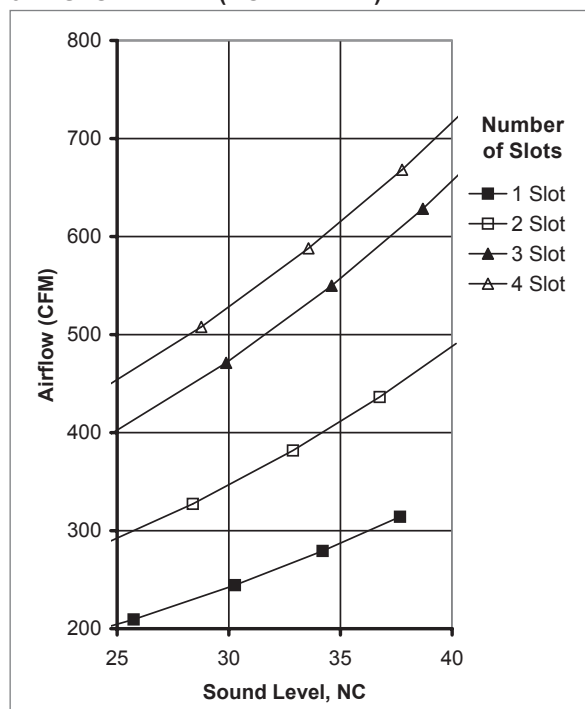


VERTICAL FLOW, BLADES UP

Blade Holder = Center
 Blade 1 = Up
 Blade 2 = Up
 Result: Directs airflow downward; move both blades to mid for reduced flow.

1900SQS Reference Charts

**AIRFLOW VS. NC: 1900SQS,
3/4" SLOT WIDTH (NO DAMPER)**



**AIRFLOW VS. NC: 1900SQS,
1" SLOT WIDTH (NO DAMPER)**

