

Introduction: SH Series

The SH/5SH series square or rectangular diffusers are available in various sizes and discharge air patterns to meet engineering requirements for capacity and directional throw in addition to a variety of frame styles to meet architectural requirements of today's ceilings. They feature a 1/4" horizontal lip on all sides of the louvered core, resulting in a tight horizontal discharge pattern at the ceiling and a higher discharge velocity at the face. This creates a high induction region just below the face of the diffuser, which improves room air mixing. Because this series has higher discharge face velocities, they are an excellent choice for variable air volume systems with above normal temperature differentials. At typical flow rates, isothermal throws of 18 to 30 feet make the SH/5SH series ideal for mounting centrally in many spaces with high load requirements while providing high mixing rates in the space.

MODELS

- SH - Steel Louvered Diffuser
- 5SH - Aluminum Louvered Diffuser
- SHFR - Fire Rated, Steel Louvered Diffuser
- MSH - Metric, Steel Louvered Diffuser

FEATURES

- Core is removable from face of diffuser.
- Square or rectangular duct connections.
- Maintains a horizontal discharge air pattern from maximum to minimum CFM.
- Lever operator on optional OBDFA damper allows easy volume adjustment from face of diffuser.
- Various discharge air patterns available.
- Excellent choice for VAV applications with high loads.

PANEL SIZES

- 12"x12", 24"x24", and 24"x48"
- 48"x48" for Frame 2T Only
- 600x600mm

ACCESSORIES

- Optional straightening grids.
- Optional face operated OBDFA.
- Optional Ultrathrow (throw reducing device).
- Optional MRI construction (5SH).

FINISHES

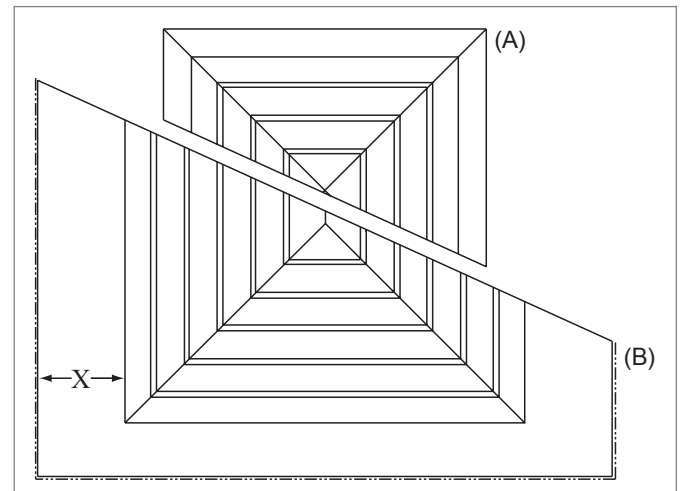
- Standard finish is #44 British White.
- Optional finishes available.



SH

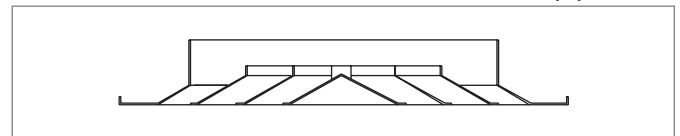
SH, 5SH, SHFR, MSH Dimensional Information

SH, 5SH, SHFR, MSH, FACE VIEW

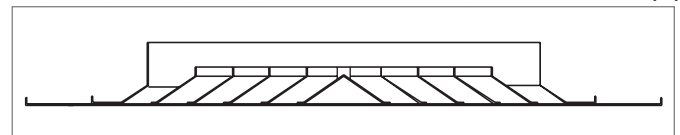


NOTE: Dimension 'X' will vary with neck sizes for Frames 23, 24, 27, and 98.

SH, 5SH, CROSS SECTION, SURFACE MOUNT (A)



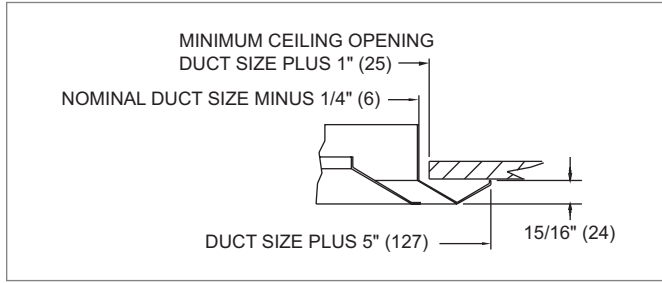
SH, 5SH, SHFR, MSH, CROSS SECTION, LAY-IN T-BAR (B)



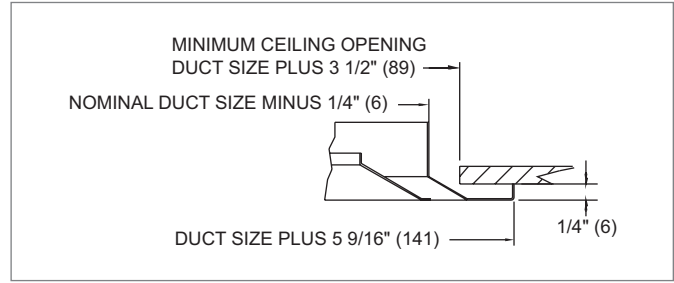
LOUVERED FACE DIFFUSERS

SH, 5SH Frame Styles

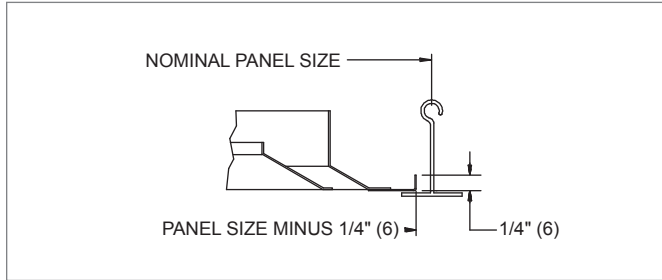
SH, 5SH, FRAME 21, SURFACE MOUNT, BEVELED



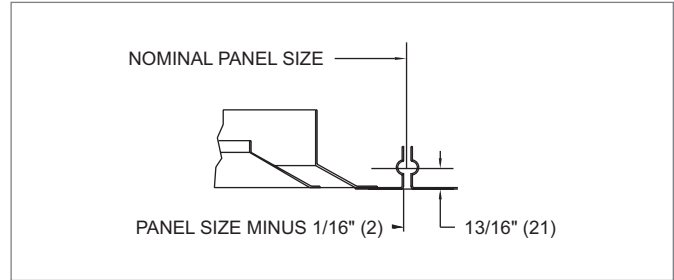
SH, 5SH, FRAME 22, SURFACE MOUNT, FLAT



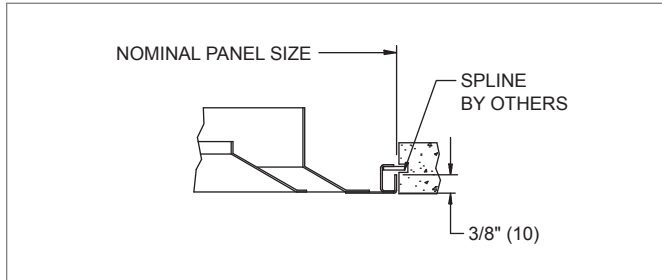
SH, 5SH, SHFR, MSH, FRAME 23, LAY-IN T-BAR



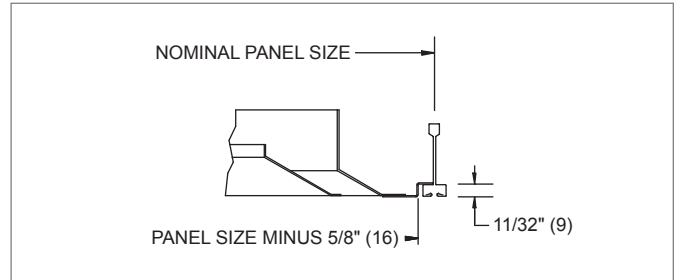
SH, 5SH, FRAME 24, SNAP-IN T-BAR



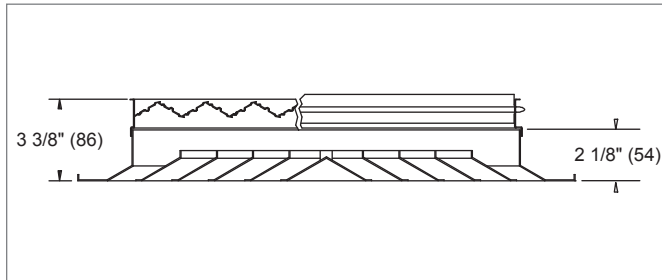
SH, 5SH, FRAME 27, SPLINE



SH, 5SH, FRAME 98, NARROW-T



SH, 5SH, MSH, DAMPER DETAIL



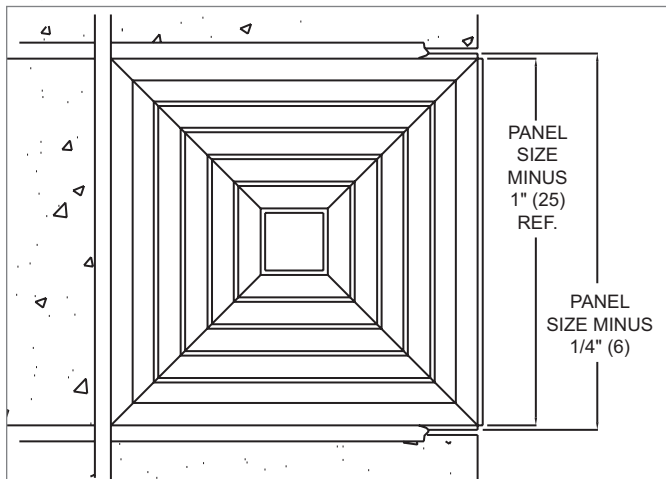
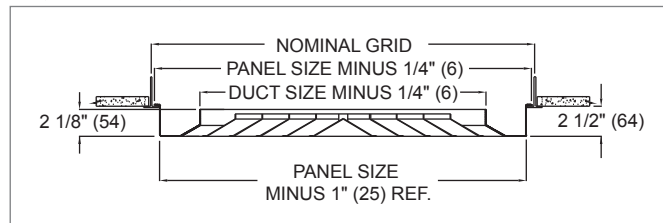
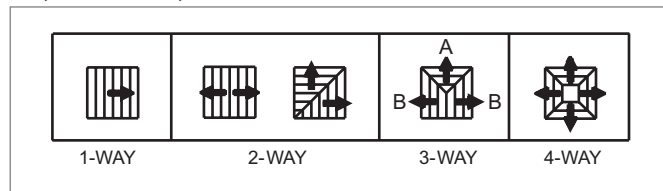
SH, 5SH, AVAILABLE NECK SIZES

Frame Style	Panel Size	Minimum Inlet Dim1 x Dim2	Maximum Inlet Dim1 x Dim2
21	-	6"x6" (152x152)	48"x48" (1219x1219)
23	12"x12" (305x305)	6"x6" (152x152)	9"x9" * (229x229)
24	24"x24" (610x610)	6"x6" (152x152)	21"x21" * (533x533)
27	24"x48" (610x1219)	12"x12" (610x610)	21"x42" ** (533x1067) 21"x45" *** (533x1143)
98	24"x24" (610x610)	6"x6" (152x152)	18"x18" (457x457)

NOTES: Dimensions in parentheses are mm.
 * Available in 4-way discharge air pattern only.
 ** Available in 4-way discharge air pattern, model 5SH only.
 *** Available in 4-way discharge air pattern, model SH only.

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SH, 5SH Drop Face Dimensional Information
SH, FRAME 2T, FACE VIEW

SH, FRAME 2T, CROSS SECTION

SH, FRAME 2T, DISCHARGE AIR PATTERNS


NOTE: 'A' & 'B' notations correspond to performance data.


SH, FRAME 2T, AVAILABLE NECK SIZES

Panel Size	Neck Size
24"x24" (610x610)	18"x18" (457x457)
48"x48" (1219x1219)	42"x42" (1067x1067)

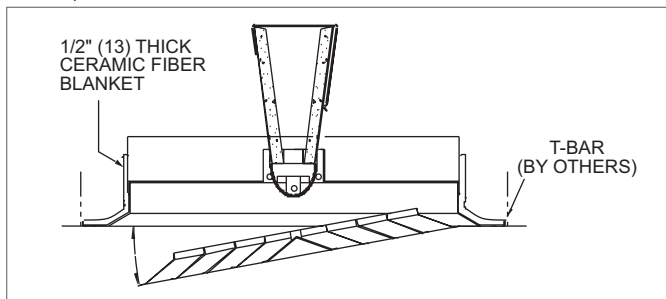
NOTE: Dimensions in parentheses are mm.

SHFR (Fire Rated) Dimensional Information

Krueger series SHFR is a UL fire rated version of the SH series. The SHFR gives the same performance characteristics as the SH series. The SHFR is only available in F23 for Lay-in T-Bar applications.

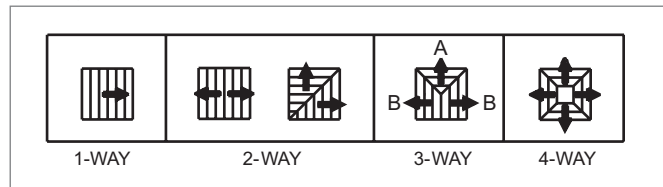


SHFR comes standard as a UL 263 classified assembly that incorporates a three hour rated fire damper and a 1/2" thick ceramic fiber blanket.

SHFR, REMOVABLE CORE

SHFR, AVAILABLE NECK SIZES

Nominal Panel	Neck Sizes
24"x24" (610x610)	6"x6" (152x152)
	9"x9" (229x229)
	12"x12" (305x305)
	15"x15" (381x381)
	18"x18" (457x457)

NOTE: Dimensions in parentheses are mm.

SHFR, DISCHARGE AIR PATTERNS


NOTE: 'A' & 'B' notations correspond to performance data.

SHFR, CROSS SECTION, LAY-IN T-BAR, 24"x24" PANEL
