

TROFFER DIFFUSERS



SST - 100 SST SERIES



Description

SAFID troffer diffusers SST Series are designed to provide single side concealed air distribution when installed behind the air handling luminaires (light fixtures). The troffer diffusers are equipped with concealed adjustable air deflectors to provide horizontal or vertical discharge air pattern.

SAFID troffer diffusers are coordinated with luminaire (light fixture) manufacturers to ensure optimum air distribution performance and ease of installation. Various sizes of SAFID troffer diffusers are available to fit with any model or style of light fixture manufacturers.

SAFID troffer diffusers should be located uniformly in the ceiling together with the luminaires in order to have a proper air distribution in the occupied area.

Standard Construction

Built of galvanized steel sheet gauge 22, conform to ASTM A653, Lock Forming Quality, G90 zinc coating.

12.5 mm thick acoustic lining with black glass tissue facing, 48kg/m³ density. Acoustic lining is fixed inside the troffer diffuser with non-flammable adhesive and mechanical fastener (cupped head pins).

Spigot:

Spigot inlet without damper as standard.

Additional Options

- 1. Spigot inlet with damper.
- 2. Troffer diffuser without insulation can be used for return or exhaust system. Type: SST - 100X, SST - 110X.

General construction as Type SST - 100 troffer diffuser but with flat oval spigot side inlet.



SINGLE SIDED TROFFER DIFFUSER

SST SERIES [SST 100, SST 110]

Use for Luminaire (Light Fixture) with Length = 600mm

Vertical Discharge	Air Flow (L/S)	7	10	12	15	17	19	21	23
	Static Pressure (Pa)	5	9	10	16	21	24	30	36
	NC Level (Noise Criteria)	19	18	19	23	26	28	30	33
	Throw (Meter)	0.3 - 0.7	0.6 - 0.9	0.6 - 1.2	0.9 - 1.5	1.2 - 1.8	1.5 - 2.0	1.8 - 2.4	2.0 - 2.7
Horizontal Discharge	Static Pressure, Pa	20	39	44	71	93	113	140	170
	NC Level (Noise Criteria)	37	41	44	47	49	51	52	55
	Throw, Meter	0.6 - 1.0	0.9 - 1.5	1.2 - 1.8	1.3 - 2.1	1.5 - 2.4	1.8 - 2.7	2.0 - 3.0	2.4 - 3.3

Use for Luminaire (Light Fixture) with Length = 900mm

Vertical Discharge	Air Flow (L/S)	12	17	18	23	27	30	34	37
	Static Pressure (Pa)	5	9	10	16	21	24	30	36
	NC Level (Noise Criteria)	19	18	19	23	26	28	30	33
	Throw (Meter)	0.3 - 0.7	0.6 - 0.9	0.6 - 1.2	0.9 - 1.5	1.2 - 1.8	1.5 - 2.0	1.8 - 2.4	2.0 - 2.7
Horizontal Discharge	Static Pressure (Pa)	20	39	44	71	93	113	140	170
	NC Level (Noise Criteria)	37	41	44	47	49	51	52	55
	Throw (Meter)	0.6 - 1.0	0.9 - 1.5	1.2 - 1.8	1.3 - 2.1	1.5 - 2.4	1.8 - 2.7	2.0 - 3.0	2.4 - 3.

Use for Luminaire (Light Fixture) with Length = 1200mm

Vertical Discharge	Air Flow (L/S)	16	23	26	33	38	43	47	52
	Static Pressure (Pa)	5	9	10	16	21	24	30	36
	NC Level (Noise Criteria)	19	18	19	23	26	28	30	33
	Throw (Meter)	0.3 - 0.7	0.6 - 0.9	0.6 - 1.2	0.9 - 1.5	1.2 - 1.8	1.5 - 2.0	1.8 - 2.4	2.0-2.7
Horizontal Discharge	Static Pressure (Pa)	20	39	44	71	93	113	140	170
	NC Level (Noise Criteria)	37	41	44	47	49	51	52	55
	Throw (Meter)	0.6 - 1.0	0.9 - 1.5	1.2 - 1.8	1.3 - 2.1	1.5 - 2.4	1.8 - 2.7	2.0 - 3.0	2.4 - 3.3

- All above performance data is based on troffer diffuser with 13mm wide slot. Performance may vary with other makes and designs of air troffer.
- All above data is based on inlet size 150mm (6") although the effect on inlet size is negligible in the range of inlets offered
- •Throws vertical and horizontal distances in meters to reach terminal velocities of 0.5 m/s and 0.25 m/s.

ROFFER DIFFUSERS

Legend:

1 - Casing

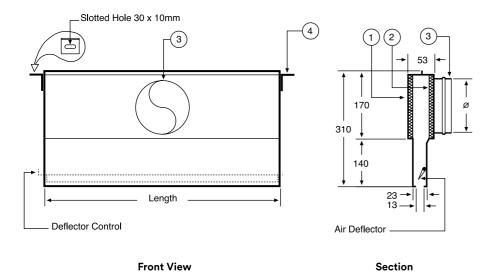
2 - Acoustic Lining

3 - Spigot Inlet

4 - Hanging Bracket

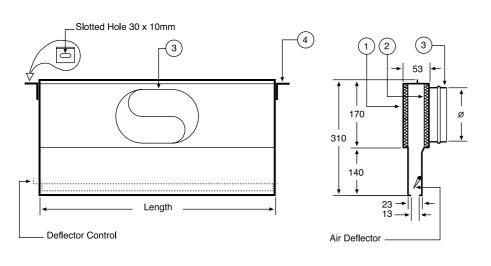
SST - 100

Round spigot top inlet without damper and with 12.5mm thick acoustic lining, density 48kg/m³ with BGT facing.



SST - 110

Flat Oval spigot side inlet without damper and with 12.5mm thick acoustic lining, density 48kg/m3 with BGT facing.



Front View

Section

Threaded Rod (By Others) Flexible Duct Main Duct Light Fixture Assembly (Luminaire) by Others Air Outlet (Two Sides) Ceiling Module

Sizes of Troffer Diffuser

Item No.	Luminaire Size L x W (mm)	Troffer Size (variable) L x W (mm)	Spigot Inlet dia (mm)
1	600 x 600	600	150
2	600 x 300	600	150
3	900 x 900	900	150
4	900 x 600	900	150
5	900 x 300	900	150
6	1200 x 1200	1200	150
7	1200 x 600	1200	150
8	1200 x 300	1200	150

NOTE

Troffer Diffuser size varies as per Luminaire actual size.

Order Example

Product Code:	SST-100 -	L	/	Spigot
SST-100 ———				
SST-100 ———				
1200 ———				
150 Dia				

Make: SAFID

Type: SST-100-1200L / 150 Dia

Qty.:1

ROFFER DIFFUSERS