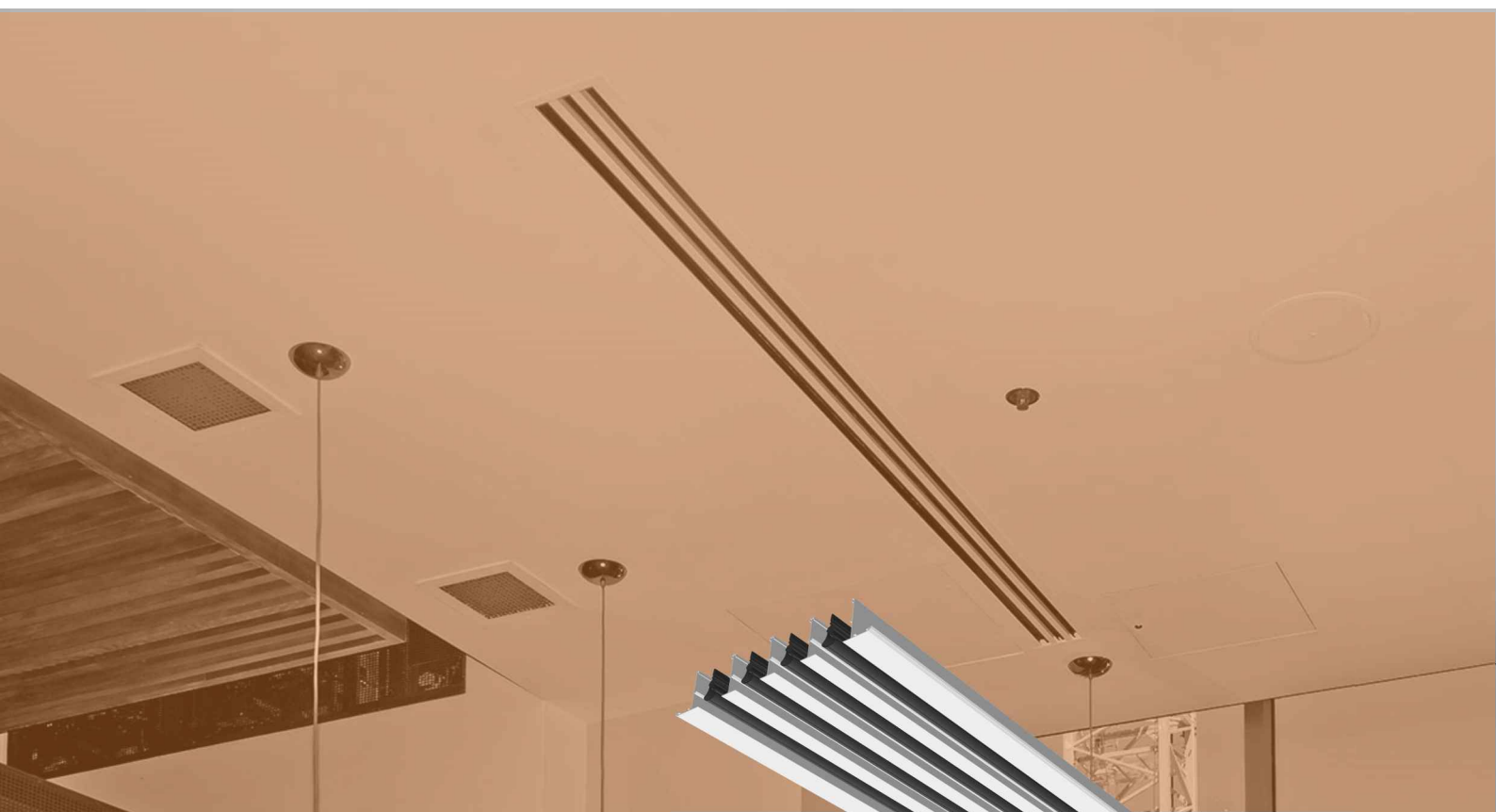


LINEAR SLOT DIFFUSER



Model:
SLD

LINEAR SLOT DIFFUSER



TYPICAL APPLICATION

linear slot diffuser is applied increasingly popular in both commercial and residential buildings.

Ability to handle large air volumes makes this product suitable for requirements of large air changes. Also, it can be used in any application requiring long continuous lengths of air supply and is excellent for providing air curtains.

Normally installed in walls and ceilings, the product is a popular choice of architect due to its unobstructive appearance.

MATERIAL

- Frame : Extruded aluminum A6063-T5, thickness 1.0-1.2mm .
- Blade mechanism: Black coated extruded aluminum

FINISH

- Standard: white powder coating RAL 9010 (Optional: RAL code)

DIMENSIONS

- Optional (see table)
- Stiffener for $W > 600\text{mm}$

OUTSTANDING PERFORMANCE

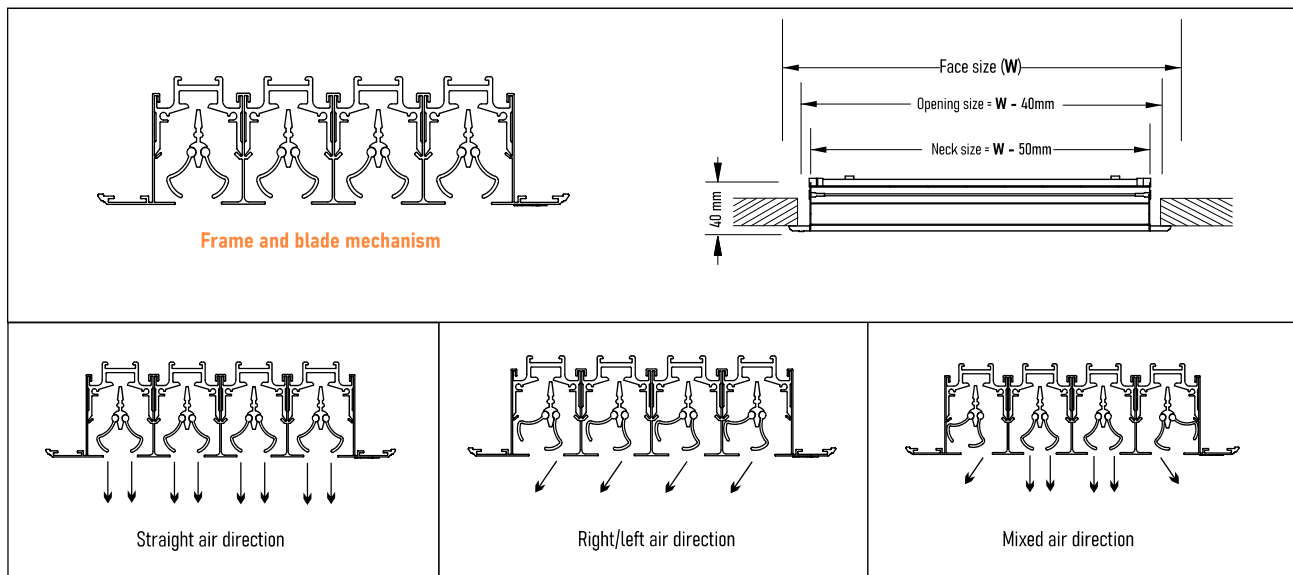
- Free area (depending on angles and number of slot) up to 38%.

OPTIONS

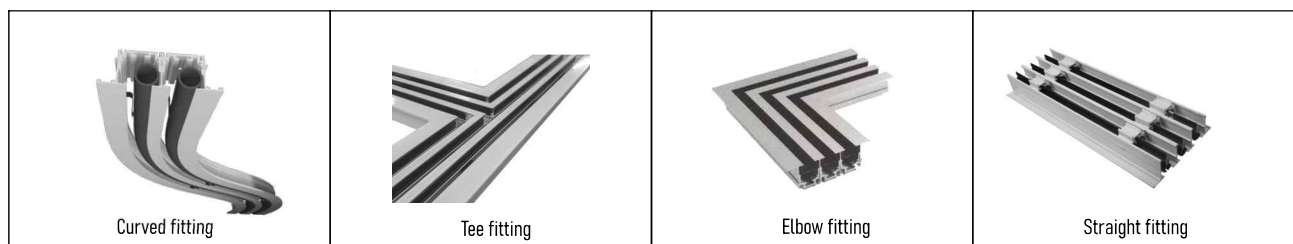
- X-axle curved
- Unobstructive assembly

- Plenum, hanger, bolts & nut, etc. to create "module" (see next page)

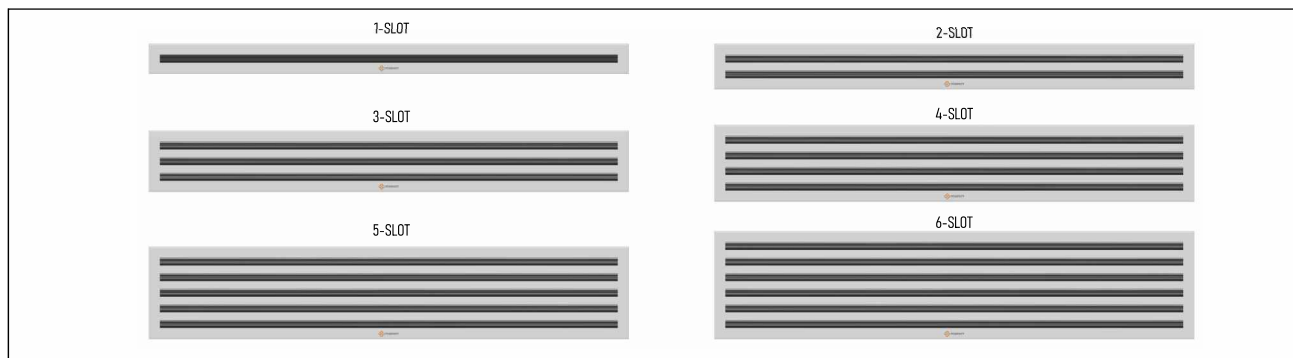
CONSTRUCTION



CONNECT FITTINGS FOR UNOBSTRUCTIVE APPLICATIONS (OPTIONALLY SUPPLIED)



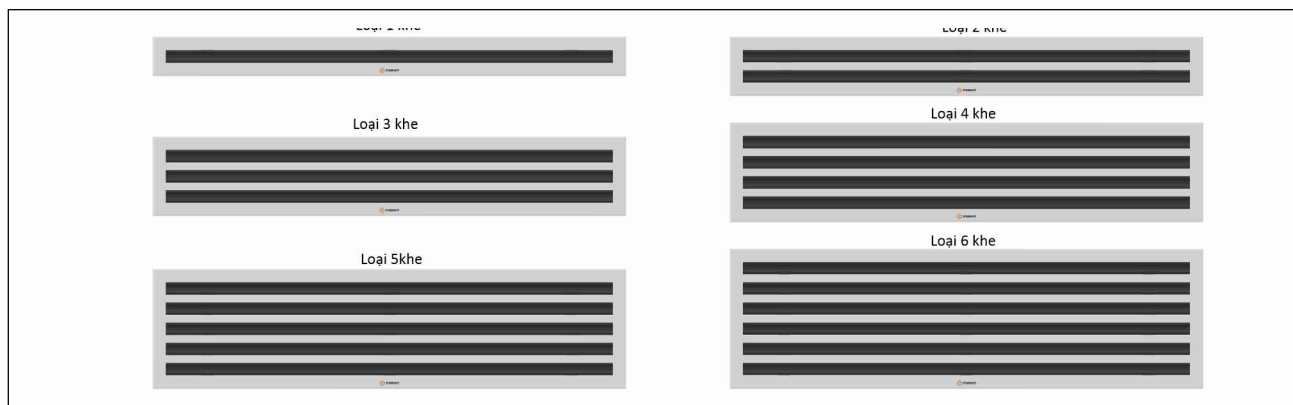
SLOT 20MM TYPE



PROD. CODE	No. of slot	Face size		Neck size	Plenum neck size	Opening size
		Length (W)	Height (H)			
SLD-A1S	1	Optional	76.5	(W-36.5) x 40	(W-27) x 50	(W-15) x 62
SLD-A2S	2	Optional	115.5	(W-36.5) x 79	(W-27) x 89	(W-15) x 101
SLD-A3S	3	Optional	154	(W-36.5) x 117.5	(W-27) x 128	(W-15) x 139
SLD-A4S	4	Optional	193	(W-36.5) x 156.5	(W-27) x 167	(W-15) x 178
SLD-A5S	5	Optional	232	(W-36.5) x 195.5	(W-27) x 206	(W-15) x 217
SLD-A6S	6	Optional	280	(W-36.5) x 243.5	(W-27) x 254	(W-15) x 265

BVT: mm

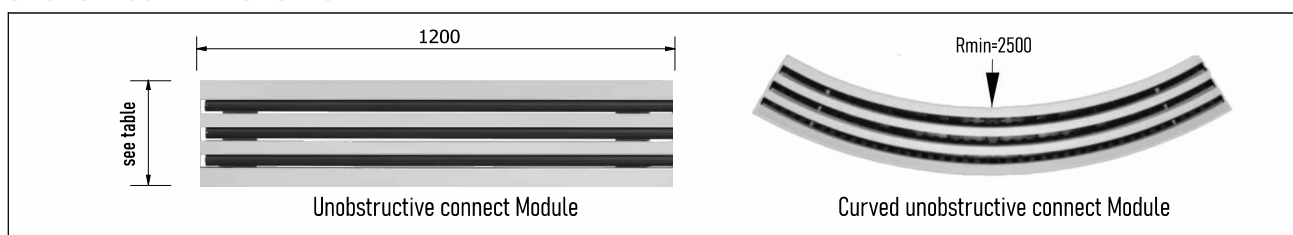
SLOT 32MM TYPE



PROD. CODE	No. of slot	Face size		Neck size	Plenum neck size	Opening size
		Length (W)	Height (H)			
SLD-B1S	1	Optional	100	(W-47.5) x 52.5	(W-38) x 63	(W-15) x 85
SLD-B2S	2	Optional	150	(W-47.5) x 102.5	(W-38) x 113	(W-15) x 135
SLD-B3S	3	Optional	200	(W-47.5) x 152.5	(W-38) x 163	(W-15) x 185
SLD-B4S	4	Optional	252	(W-47.5) x 204.5	(W-38) x 215	(W-15) x 237
SLD-B5S	5	Optional	303	(W-47.5) x 255.5	(W-38) x 266	(W-15) x 241
SLD-B6S	6	Optional	354	(W-47.5) x 306.5	(W-38) x 317	(W-15) x 339

(mm)

UNOBSTRUCTIVE MODULES



PERFORMANCE DATA (air supply)

No. of slot	Neck velocity (m/s)	0.2	0.4	0.7	0.9	1.1	1.3	1.6	1.8	2.0
	Static Pressure (Pa)	0.98	3.92	7.84	13.72	22.54	32.34	43.12	56.54	74.54
1	Volume V (m³/h)	48	88	136	177	224	272	313	360	401
	NC	-	-	13	20	26	30	34	37	40
	Throw L (m)	H	0.6 - 1.8	1.8 - 4.9	3.7 - 6.4	4.9 - 7.3	5.8 - 8.2	6.4 - 8.8	6.7 - 9.8	7.3 - 10.4
		W	0.6	2.4	3.7	4.3	4.6	5.2	5.5	5.8
2	Volume V (m³/h)	88	177	272	360	449	537	626	721	809
	NC	-	-	16	23	29	33	37	40	43
	Throw L (m)	H	0.9 - 3.7	3.7 - 7.0	5.2 - 8.8	7.0 - 10.7	8.2 - 11.6	8.8 - 12.8	9.8 - 13.7	10.4 - 14.6
		W	1.5	3.4	4.9	5.8	6.7	7.3	7.9	8.5
3	Volume V (m³/h)	136	272	401	537	673	809	945	1074	1210
	NC	-	-	18	25	30	35	39	42	45
	Throw L (m)	H	1.5 - 4.3	4.3 - 8.5	6.4 - 11.0	8.5 - 12.8	10.1 - 14.0	11.0 - 15.5	11.9 - 16.8	12.8 - 18.0
		W	2.1	4	6.1	7.3	8.2	8.8	9.8	10.4
4	Volume V (m³/h)	177	360	537	721	898	1074	1258	1435	1618
	NC	-	-	18	26	32	36	40	43	46
	Throw L (m)	H	1.8 - 4.9	4.9 - 10.1	7.3 - 12.8	10.1 - 14.6	11.6 - 16.5	12.8 - 18.0	13.7 - 19.2	14.6 - 20.7
		W	2.4	4.6	7.0	8.5	9.4	10.4	11.0	11.9
5	Volume V (m³/h)	224	449	673	898	1122	1346	1571	1795	2020
	NC	-	-	20	27	33	37	41	44	47
	Throw L (m)	H	2.4 - 5.5	5.5 - 11.0	8.2 - 14.0	11.0 - 16.5	12.8 - 18.3	14.0 - 20.1	15.2 - 21.6	16.5 - 23.2
		W	2.7	5.2	7.6	9.4	10.4	11.6	12.5	13.1
6	Volume V (m³/h)	272	537	809	1074	1346	1618	1884	2156	2421
	NC	-	12	22	29	34	38	42	45	48
	Throw L (m)	H	3.0 - 6.1	6.1 - 12.2	9.1 - 15.5	12.2 - 18.0	14.0 - 20.1	15.5 - 21.9	16.8 - 23.8	18.0 - 25.3
		W	2.7	5.8	8.5	10.4	11.6	12.5	13.7	14.6

PERFORMANCE DATA (air return)

No. of slot	Neg. Static Pressure (Pa)	4.9	9.8	17.64	27.44	40.18	53.9	70.56	112.7
1	Volume V (m³/h)	135	200	270	340	405	475	545	680
	NC	-	-	-	24	29	33	37	43
2	Volume V (m³/h)	270	405	545	680	815	950	1085	1360
	NC	-	-	22	27	31	36	40	46
3	Volume V (m³/h)	405	610	815	1020	1225	1425	1630	2040
	NC	-	-	24	29	34	38	42	48
4	Volume V (m³/h)	545	815	1085	1360	1630	1905	2175	2720
	NC	-	-	24	30	35	39	43	49
5	Volume V (m³/h)	680	1020	1360	1700	2040	2380	2720	3400
	NC	-	-	22	28	33	37	41	47
6	Volume V (m³/h)	1224	1224	1632	2040	2448	2856	3264	4080
	NC	-	-	23	29	34	38	42	48

Note: L: throw for 1.2m long diffuser, Vertical (H) and horizontal (W) throw @ 0.25-0.5m/s NC: noise rating calculated with assumed 10dB for room absorption re 10⁻¹²W, dash (-) = NC<20

Change (+/-) NC by the length of diffuser

Length of the diffuser (m)	0.6	1.2	2.4
NC - supply diffuser	-3	0	+3
NC - return diffuser	-3	0	+5

Change the throw by the length of the assembly diffuser

Length of the modules (m)	0.6	1.2	2.4
Throw	0.7	1.0	1.5

ORDERING CODE

SLD	- WxH	- A/B xS	- M	- RAL
Standard diffuser white - RAL 9010	Face size	Option slot: A=20mm ; B=32mm ; xS = number of slot	Option: module (see next page)	Colour: RAL code

Example: SLD-1200x100-B1S-M = White diffuser, face size 1200x100 (mm), one slot of 32mm, with plenum and accessories

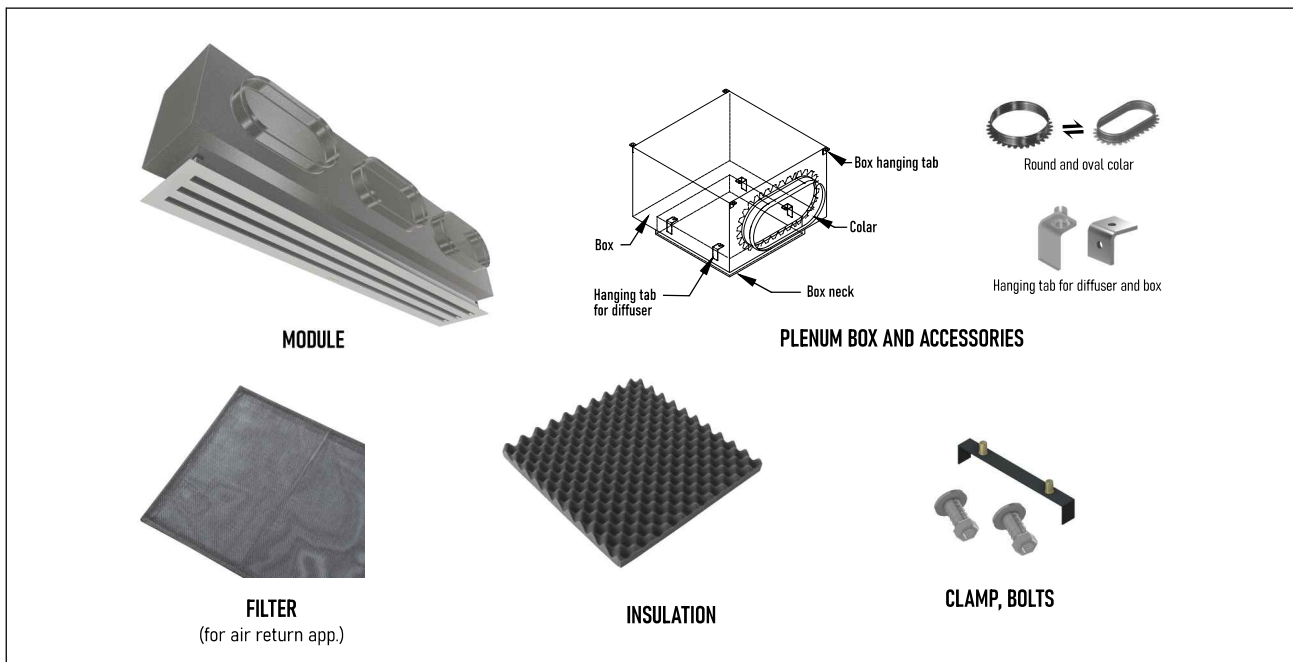
MODULE OFFERS

Grille/diffuser module of Starduct is an completed assembly including grille/diffuser and relating components & accessories.

The approach has been risen from a practice that to gain good performance for a grille/diffuser, choosing right and nice model is not enough. Also, performance and life span of a grille/diffuser depending on the quality and homogeneity of components and accessories such as plenum and additional material.

COMPONENTS IN A STARDUCT GRILLE/DIFFUSER MODULE (see more in the concerning catalogues)

- Grille/Diffuser
- Plenum box, available options:
 - Square box - Square outlet for square neck grille/diffuser - Top/side square/oval/round inlet. Made of 0.8~1.0 mm galvanized steel sheet.
- Insulation, available options:
 - Internally or externally apply over the plenum box. Material: acoustic PU foam (egg-crate) with many thicknesses.
- Filter/insect net (if used as return grilles), available options:
 - Normal dust filter (as standard). Material: nylon
 - Special filter: G4, Hepa.. (please contact us)
- Accessories: Clamp, threaded bar, sealing tapes, sealing glues etc.



BENEFITS OF STARDUCT GRILLE MODULE

1. Save costs: buying every items from only one supplier.
2. Controllable for total quality of the product
3. Simple purchasing procedure: 1 design, 1 approval, 1 order, 1 check, 1 responsible person.
4. Minimize risk of damage and management
5. Good standard : Starduct products are made and tested in accordance with national and international standard.

ORDERING CODE

