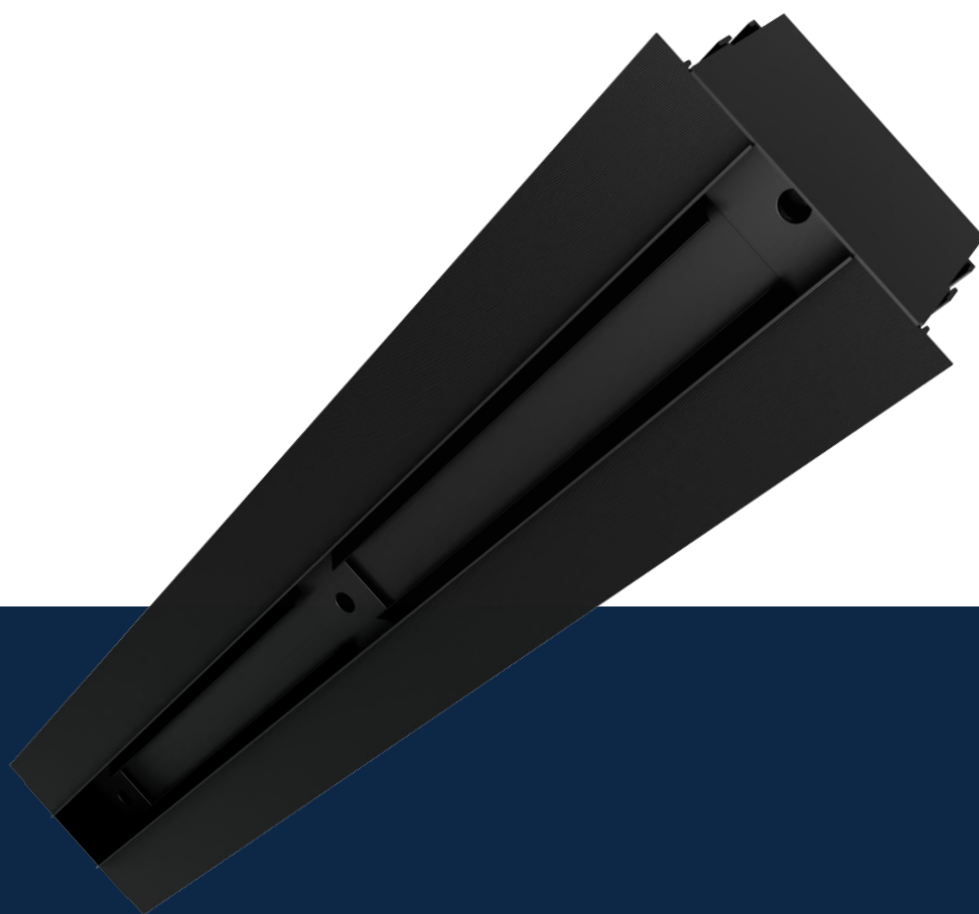


Air through perfection

Linear diffuser

LENOX



ACP
Architectural diffusers

Linear diffuser

LENOX



Description

LENOX is an architectural linear diffuser, used to introduce or evacuate air.

The diffuser is an elegant and practical ventilation solution, and the design of the product determines a high level of induction rate.

LENOX integrates fully into the ceiling and is recommended for residential spaces, conference rooms, offices, classrooms, etc.

Technical specifications

Characteristics

The diffuser is made with a linear slot, centrally positioned, with the following dimensional options: 25, 38, 51, 64 or 76 mm.

The diffuser blades are segmented to a maximum length of 635 mm and allow multiple positioning options (up, down, center...) thus obtaining the direction of the air jet in the desired direction.

The blades are sliding and easily adjustable from the front of the diffuser.

Dimensional limits, diffuser length: minimum 0.3m and maximum 3m.

In the case of diffusers with a length > 3m, the execution is modular, and the product is delivered together with the necessary connecting parts (alignment strips).

Depending on the overall position, the modular parts are built without termination elements (caps), or with a single element - see assembly sections.

Perimeter configurations can be made by using corner sections (angle 90° and 135°).

Corner elements are inactive.

The product is delivered with the following elements: “U” type mounting system (bracket), fixing screw and masking cover for the screw.

The number of mounting systems depends on the length of the product.

Materials

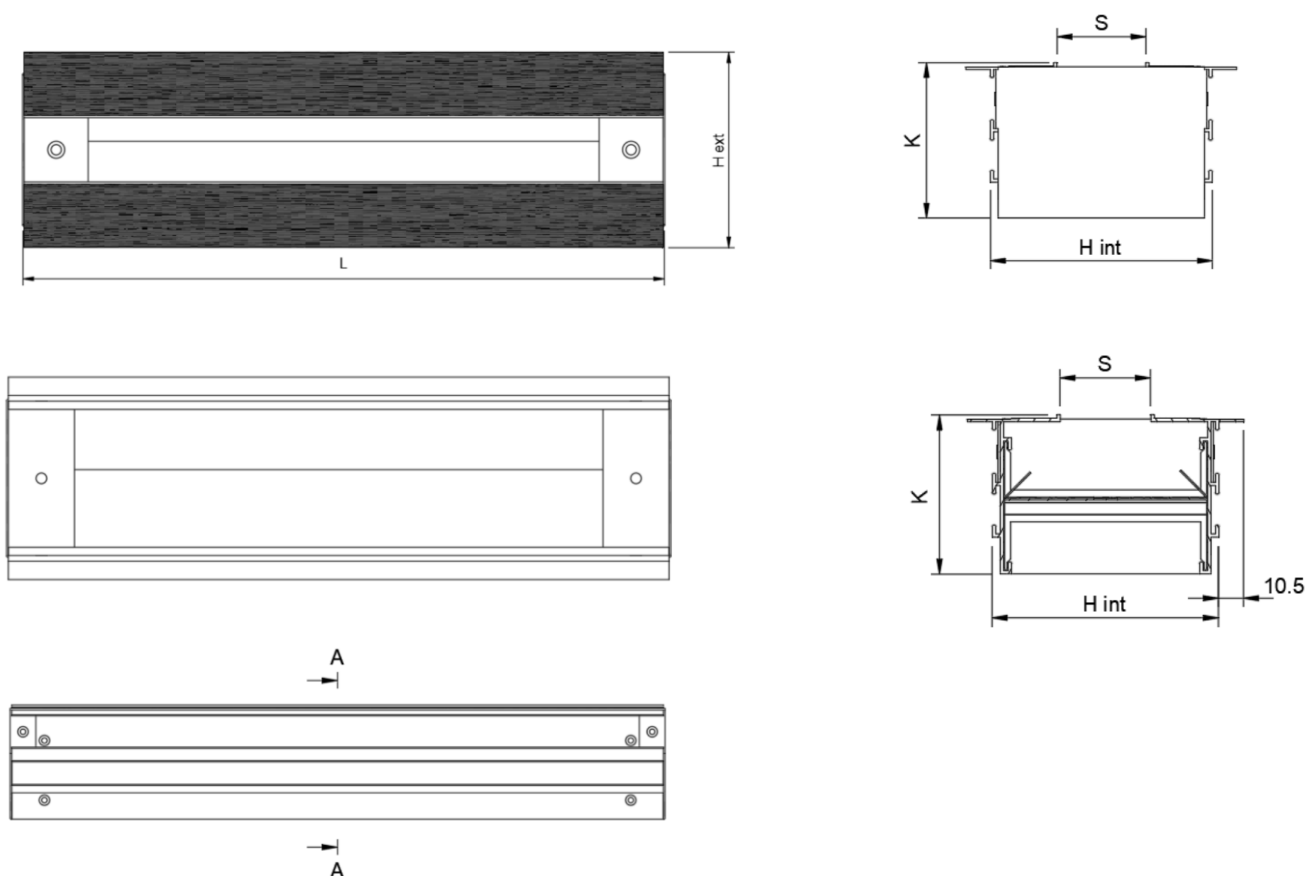
The diffuser is made of black anodized aluminum.

The blades are made of galvanized steel sheet electrostatic field painted in RAL 9005.

Other RAL colours are available on request.

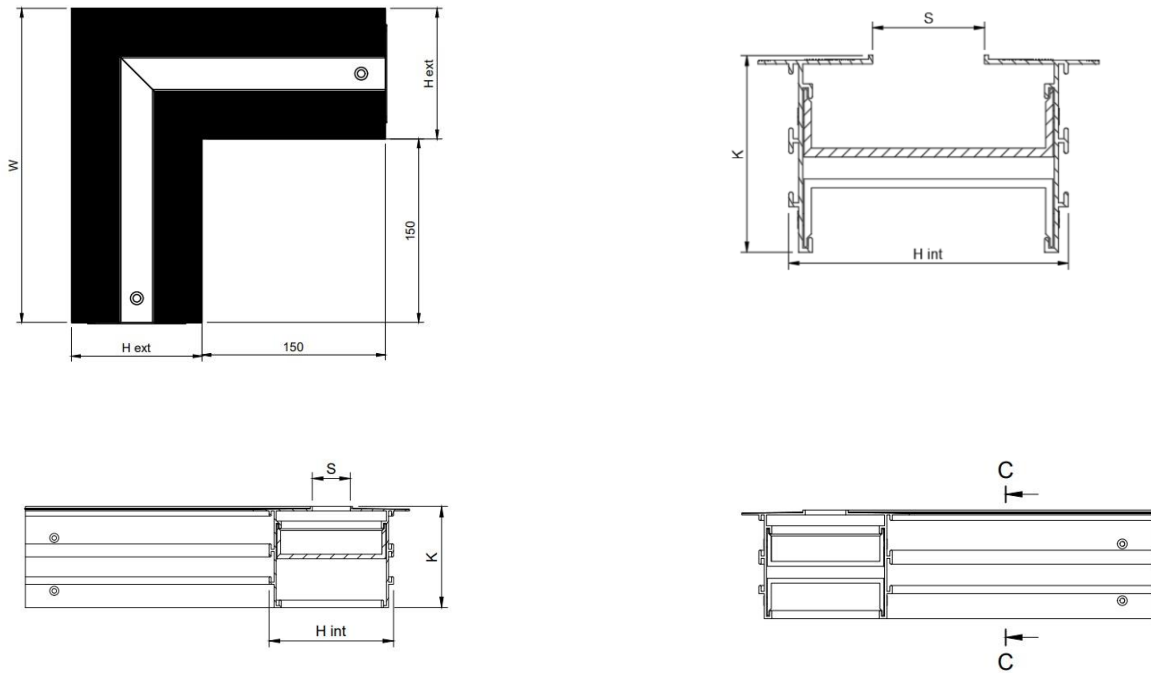
Technical drawing

LENOX - Linear

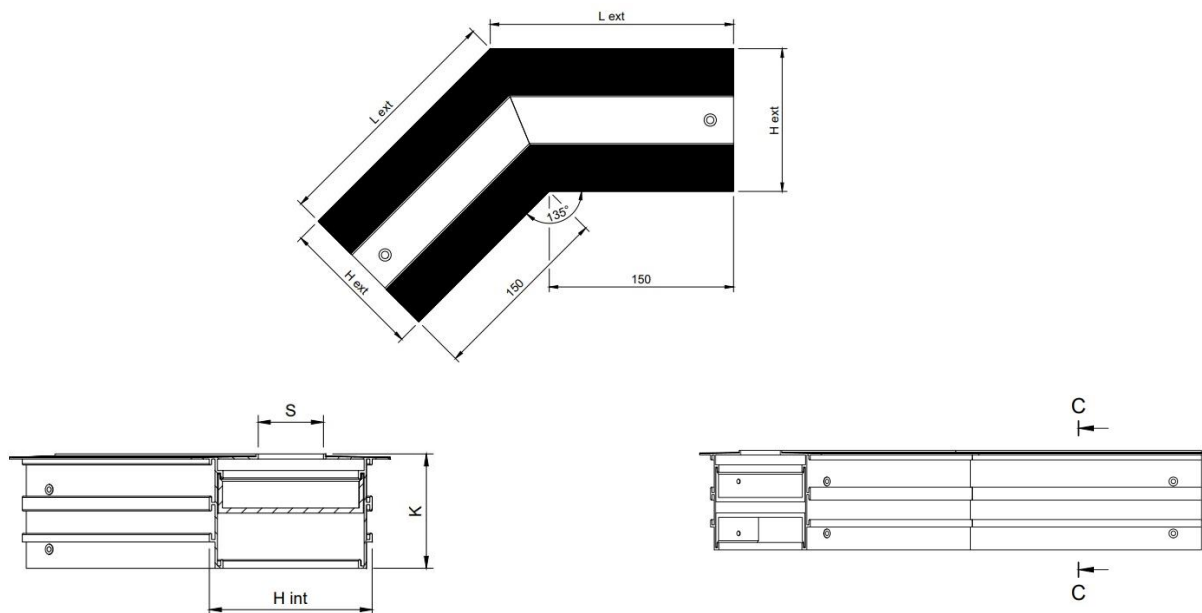


S [mm]	H int [mm]	H ext [mm]	W [mm]	K [mm]
25	82	103	253	66,8
38	95	116	266	66,8
51	108	129	279	66,8
64	121	142	292	66,8
76	133	154	304	66,8

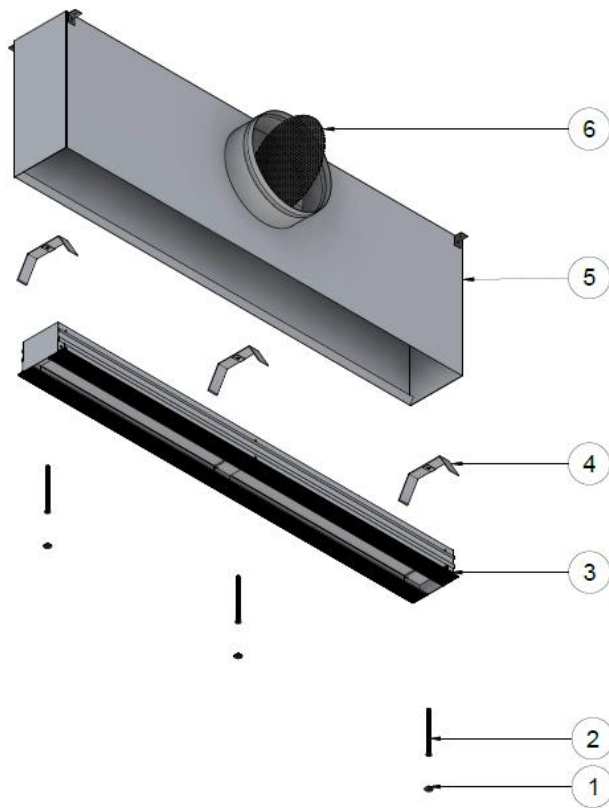
LENOX - 90 ° angle



LENOX - 135 ° angle

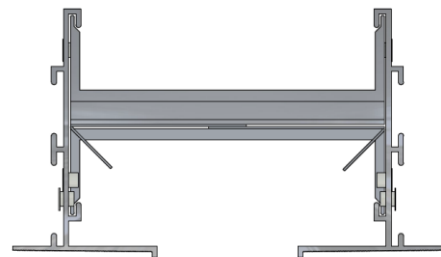
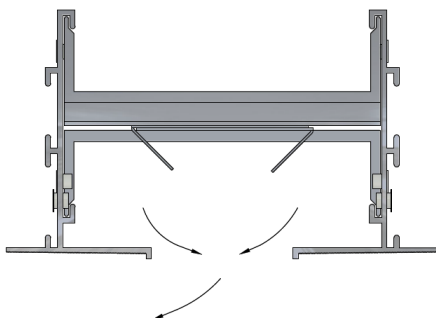
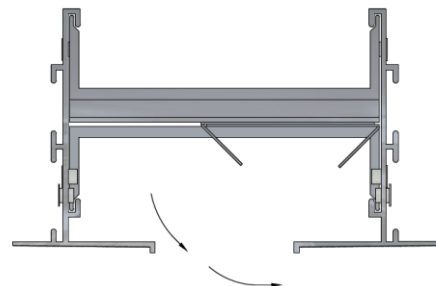
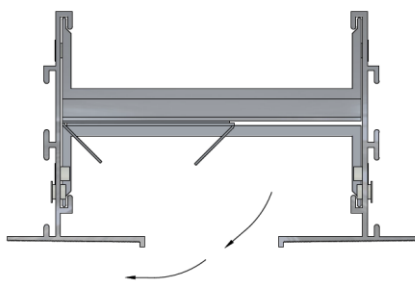


Product specifications



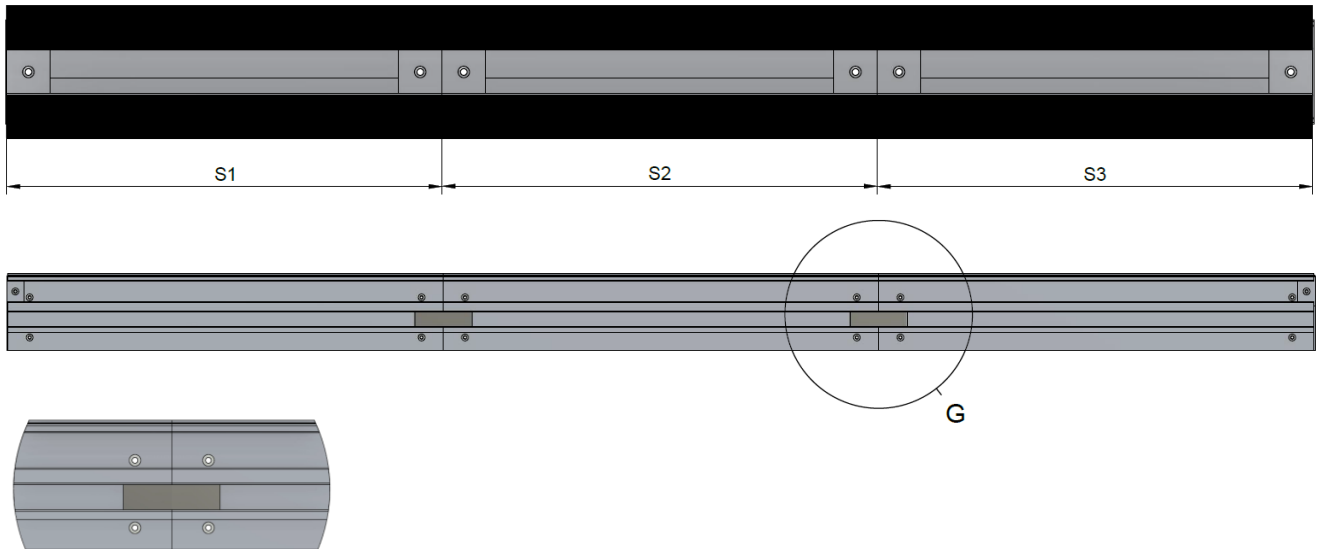
- 1 - Masking cap
- 2 - Fixing screw
- 3 - LENOX diffuser
- 4 - Bracket ("U" type system)
- 5 - Plenum box (optional)
- 6 - Perforated damper (optional)

Directing the air jet



Section assembly

Long-length diffusers are made of modules with a maximum length of 3 m. In this case, the product is delivered with connecting elements between modules.



G – Mounting detail (connecting elements)

Accessories

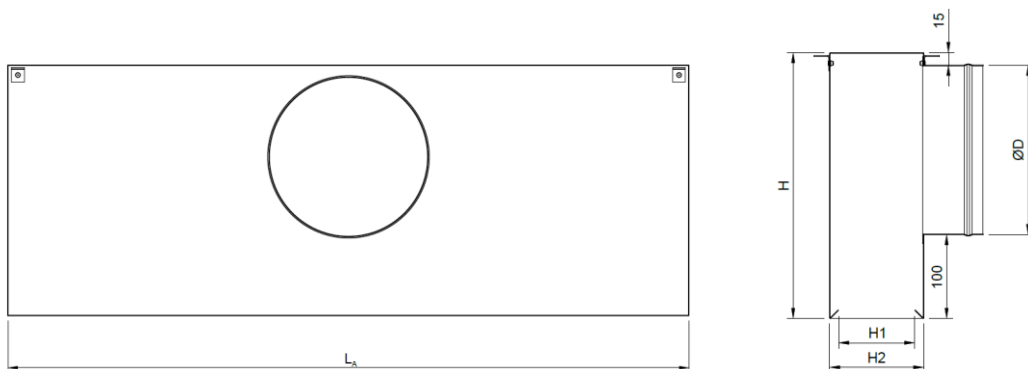
The diffuser can be supplied with a plenum connecting to a circular duct with horizontal connection.

The plenum is provided with suspension elements (lugs) and bead roll on the spigot, for easy fixing of the flexible duct.

The plenum is delivered insulated or uninsulated.

Optionally, a perforated damper can be mounted on the plenum connection to balance the air flow.

Adapter (plenum box)



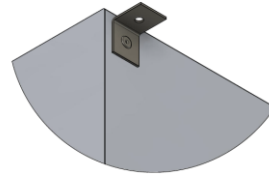
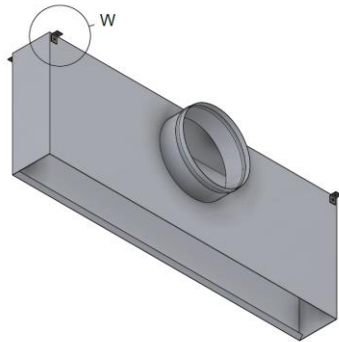
$$L_A = L_{\text{LENOX}} + 3$$

$$H1 = H_{\text{int LENOX}} + 2$$

$$H2 = H1 + 16$$

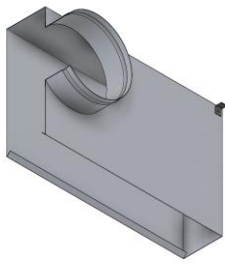
$$H - \text{depending on } \varnothing D$$

The adapter is made of Z140 galvanized steel sheet and is equipped with suspension lugs..

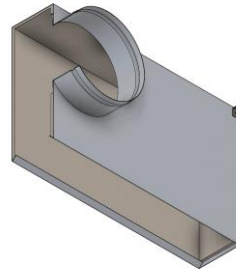


W - Suspension lug

On request, the plenum can be insulated with 6 mm thick elastomeric rubber.

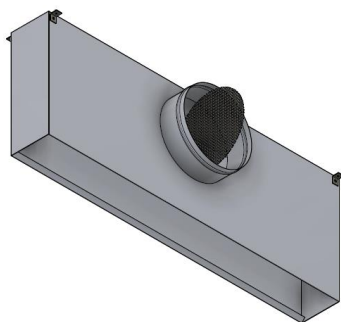


AN - Uninsulated adapter

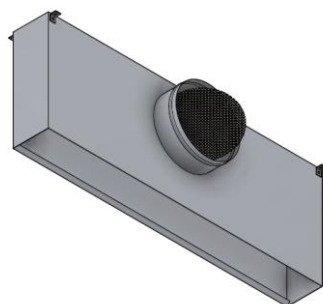


AIZ - Insulated adapter

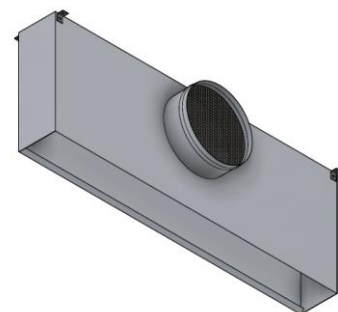
Perforated damper



Position 0°



Position 45°



Position 90°

The perforated damper is mounted on the adapter spigot and has the role of balancing the air flow.

Functional parameters

L x H [mm]	Slot dimension [mm]	ØD [mm]	Functional parameters															
600 x 82	25	150	Air flow [m³/h]	43	86	126	169	212	255	299								
			Pt [Pa]	2	8	19	33	51	74	99								
			Ps [Pa]	2	7	16	29	45	64	87								
			NR [dB(A)]	5	8	<15	20	29	36	40								
			X [m]	0.6	1.5	1.8	2.7	2.7	3.7	3.0	4.0	3.0	4.3	3.4	4.9	3.7	5.5	
1200 x 82		Air flow [m³/h]	68	137	205	273	338	406	475									
		Pt [Pa]	2	8	16	29	45	65	87									
		Ps [Pa]	1	5	10	19	29	42	56									
		NR [dB(A)]	6	9	<15	17	25	32	38									
		X [m]	0.6	1.5	1.8	3.7	2.7	4.6	3.7	5.2	3.7	5.5	4.6	6.1	4.9	6.7		
1500 x 82		Air flow [m³/h]	86	169	255	338	424	511	594									
		Pt [Pa]	2	9	20	35	54	78	105									
		Ps [Pa]	1	5	10	19	29	42	56									
		NR [dB(A)]	5	9	<15	18	26	22	38									
		X [m]	0.6	2.1	2.1	4.0	3.0	5.2	4.0	5.8	4.6	6.1	4.9	6.7	5.2	7.3		
600 x 82		Air flow [m³/h]	86	126	169	212	255	299	338									
		Pt [Pa]	7	17	30	47	67	89	117									
		Ps [Pa]	7	16	28	45	64	85	112									
		NR [dB(A)]	6	<15	20	28	35	41	44									
		X [m]	1.5	2.7	2.7	3.4	3.0	4.3	3.4	4.6	3.7	5.5	3.7	5.8	4.0	6.1		
1200 x 82		Air flow [m³/h]	118	187	255	324	392	457	525									
		Pt [Pa]	4	10	19	30	44	60	79									
		Ps [Pa]	3	8	16	25	37	51	67									
		NR [dB(A)]	4	8	<15	23	30	36	41									
		X [m]	1.2	3.0	2.4	4.3	3.4	5.2	4.0	5.8	4.6	6.7	4.9	7.3	5.5	7.9		
1500 x 82		Air flow [m³/h]	137	219	306	392	475	561	644									
		Pt [Pa]	2	6	14	23	35	51	70									
		Ps [Pa]	1	5	11	18	27	40	55									
		NR [dB(A)]	7	10	<15	23	29	35	40									
		X [m]	1.5	3.4	2.7	4.6	3.7	5.5	4.3	6.1	4.6	6.7	5.2	7.3	5.5	7.9		
600 x 95	38	150	Air flow [m³/h]	50	101	151	205	255	306	356								
			Pt [Pa]	2	9	22	37	61	91	117								
			Ps [Pa]	0	8	19	31	52	78	99								
			NR [dB(A)]	4	8	<15	22	31	39	44								
			X [m]	1.2	2.1	2.1	3.4	2.7	4.0	3.0	4.6	4.0	5.2	4.3	5.8	4.6	6.1	
1200 x 95		Air flow [m³/h]	119	187	255	324	392	457	525									
		Pt [Pa]	5	11	22	37	51	71	93									
		Ps [Pa]	3	6	13	22	30	42	55									
		NR [dB(A)]	5	10	<15	20	24	30	36									
		X [m]	1.5	3.4	2.4	4.6	3.7	5.2	4.0	5.8	4.6	6.1	4.9	6.4	5.2	7.0		
1500 x 95		Air flow [m³/h]	144	230	313	400	482	569	655									
		Pt [Pa]	3	14	25	41	61	85	109									
		Ps [Pa]	0	6	11	19	29	40	50									
		NR [dB(A)]	6	9	<15	20	26	31	37									
		X [m]	1.5	3.4	2.7	4.6	4.0	5.5	4.6	6.4	5.2	7.0	5.5	7.6	6.1	8.2		
600 x 95		200	Air flow [m³/h]	50	101	151	205	255	306	356								
			Pt [Pa]	1	8	19	32	55	79	106								
			Ps [Pa]	0	7	18	30	52	74	100								
			NR [dB(A)]	3	7	<15	23	31	40	41								
			X [m]	1.2	2.1	2.1	3.4	2.7	4.0	3.7	4.6	4.0	5.2	4.3	5.5	4.6	5.8	
1200 x 95		Air flow [m³/h]	119	205	288	374	457	544	630									
		Pt [Pa]	4	9	19	31	51	67	94									
		Ps [Pa]	3	7	15	25	42	55	77									
		NR [dB(A)]	6	9	<15	22	30	36	44									
		X [m]	1.5	3.4	2.7	4.6	4.0	5.5	4.6	6.4	5.2	7.0	5.8	7.6	6.1	7.9		
1500 x 95		Air flow [m³/h]	144	245	350	450	550	655	756									
		Pt [Pa]	4	10	21	32	51	68	99									
		Ps [Pa]	3	7	15	24	37	50	74									
		NR [dB(A)]	8	10	<15	23	30	36	43									
		X [m]	1.5	3.4	3.0	4.9	4.0	6.1	5.2	7.0	5.5	7.6	6.1	8.2	6.4	8.8		

L x H [mm]	Slot dimension [mm]	ØD [mm]	Functional parameters															
600 x 108	51	200	Air flow [m³/h]	68	137	205	273	338	406	475								
			Pt [Pa]	2	7	16	29	45	64	87								
			Ps [Pa]	1	6	14	25	39	57	77								
			NR [dB(A)]	6	9	<15	17	26	31	38								
			X [m]	0.9	2.4	2.4	4.0	3.0	4.6	4.0	5.2	4.3	5.8	4.6	6.7	4.9	7.0	
1200 x 108		Air flow [m³/h]	169	255	338	425	511	594	680									
		Pt [Pa]	4	8	10	23	34	46	60									
		Ps [Pa]	2	5	10	15	22	30	39									
		NR [dB(A)]	7	10	14	15	22	30	37									
		X [m]	1.2	3.4	2.7	4.3	3.7	5.2	4.0	5.8	4.3	7.0	7.6	8.2	5.2	8.5		
1500 x 108		Air flow [m³/h]	212	306	400	493	586	680	774									
		Pt [Pa]	4	9	16	24	34	46	59									
		Ps [Pa]	2	5	9	13	19	25	33									
		NR [dB(A)]	6	12	<15	22	29	34	39									
		X [m]	1.8	3.7	3.7	5.2	4.0	5.8	4.3	7.0	4.9	7.9	5.5	8.5	6.4	9.1		
600 x 108		300	Air flow [m³/h]	86	169	255	338	425	511	594								
			Pt [Pa]	2	7	16	28	44	63	86								
			Ps [Pa]	2	7	15	27	42	60	82								
			NR [dB(A)]	7	10	<15	17	24	29	37								
			X [m]	1.5	3.0	2.4	3.7	3.0	4.3	3.7	5.2	4.0	5.8	4.3	6.7	7.9	7.6	
1200 x 108		Air flow [m³/h]	169	288	406	525	644	763.2	882									
		Pt [Pa]	2	6	11	19	28	42	53									
		Ps [Pa]	1	5	9	16	23	33	44									
		NR [dB(A)]	6	9	<15	20	27	33	39									
		X [m]	1.8	3.7	3.4	4.6	4.0	5.8	4.6	7.0	5.2	8.2	5.8	9.1	6.4	10.4		
1500 x 108		Air flow [m³/h]	212	349	482	619	756	892	1026									
		Pt [Pa]	2	6	11	18	27	38	50									
		Ps [Pa]	2	4	8	14	21	29	38									
		NR [dB(A)]	9	13	<15	23	31	36	41									
		X [m]	2.1	4.6	3.4	5.8	4.3	7.3	4.9	7.6	5.8	9.1	6.4	9.8	7.6	10.4		
600 x 121	64	250	Air flow [m³/h]	169	245	324	400	475	550	630								
			Pt [Pa]	6	12	21	32	46	62	80								
			Ps [Pa]	11	11	19	29	41	56	72								
			NR [dB(A)]	9	13	<15	22	29	35	40								
			X [m]	2.7	3.4	2.7	4.0	3.7	5.2	4.3	5.5	4.9	6.7	5.2	7.3	5.5	7.9	
1200 x 121		Air flow [m³/h]	237	374	511	644	781	918	1055									
		Pt [Pa]	4	9	17	28	40	56	73									
		Ps [Pa]	2	6	12	19	28	38	51									
		NR [dB(A)]	8	14	<15	25	33	40	45									
		X [m]	2.4	5.2	4.3	6.7	4.9	7.6	5.2	8.5	5.8	9.4	6.7	10.1	7.3	10.7		
1500 x 121		Air flow [m³/h]	255	406	561	712	867	1018	1173									
		Pt [Pa]	3	8	16	26	37	52	69									
		Ps [Pa]	0	5	9	15	22	30	40									
		NR [dB(A)]	9	15	<15	23	31	38	43									
		X [m]	2.4	4.9	3.7	6.4	4.6	7.6	5.5	8.8	6.4	9.8	7.0	10.7	8.2	11.6		
600 x 121		300	Air flow [m³/h]	169	245	324	400	475	550	630								
			Pt [Pa]	5	11	18	28	40	54	70								
			Ps [Pa]	5	10	17	26	37	51	65								
			NR [dB(A)]	7	12	<15	20	27	33	38								
			X [m]	2.7	3.4	2.7	4.0	3.7	5.2	4.3	5.5	4.9	6.7	5.2	7.3	5.5	7.9	
1200 x 121		Air flow [m³/h]	237	381	525	670	817	961	1105									
		Pt [Pa]	3	8	15	24	35	49	65									
		Ps [Pa]	2	6	11	19	28	38	51									
		NR [dB(A)]	7	13	15	23	31	38	43									
		X [m]	2.4	5.2	4.3	6.7	4.9	7.6	5.2	8.8	6.1	9.8	7.0	10.4	7.9	11.3		
1500 x 121		Air flow [m³/h]	255	425	594	763	936	1105	1274									
		Pt [Pa]	2	7	13	22	33	47	62									
		Ps [Pa]	2	5	9	16	23	32	43									
		NR [dB(A)]	11	<15	16	26	34	40	46									
		X [m]	2.4	4.9	3.7	6.4	4.9	7.9	5.8	9.4	6.7	10.1	7.6	11.3	8.5	11.9		

L x H [mm]	Slot dimension [mm]	ØD [mm]	Functional parameters															
600 x 133	76	250	Air flow [m³/h]	212	288	363	443	518	594	669								
			Pt [Pa]	7	14	22	32	45	59	75								
			Ps [Pa]	7	12	19	29	39	52	66								
			NR [dB(A)]	9	12	<15	24	29	35	40								
			X [m]	3.4	4.9	4.0	5.8	4.6	6.4	5.2	7.0	5.5	7.6	5.8	8.5	6.1	9.4	
Air flow [m³/h]			338	468	594	723	850	975	1105									
Pt [Pa]			7	12	20	30	41	55	70									
Ps [Pa]			4	8	13	19	26	35	44									
NR [dB(A)]			11	<15	18	22	28	34	40									
X [m]			4.0	6.1	4.6	7.3	5.8	8.2	6.4	9.1	7.0	9.8	7.3	10.7	7.9	11.3		
Air flow [m³/h]			374	525	680	831	986	1155	1292									
Pt [Pa]			6	10	20	31	43	57	73									
Ps [Pa]			3	6	11	16	23	30	39									
NR [dB(A)]			13	<15	16	24	32	39	45									
X [m]			3.7	6.4	5.2	7.6	6.1	8.8	7.0	9.8	7.3	10.7	7.9	11.3	8.5	12.2		
600 x 133		300	Air flow [m³/h]	212	288	363	443	518	594	670								
			Pt [Pa]	7	13	21	31	42	56	71								
			Ps [Pa]	6	12	19	29	39	52	66								
			NR [dB(A)]	8	11	<15	18	25	31	36								
			X [m]	3.4	4.9	4.0	5.8	4.6	6.4	5.2	7.0	5.5	7.6	5.8	8.5	6.1	9.4	
Air flow [m³/h]			338	493	644	799	950	1105	1256									
Pt [Pa]			5	12	20	31	43	59	76									
Ps [Pa]			4	9	15	23	33	44	58									
NR [dB(A)]			10	14	<15	22	29	36	41									
X [m]			4.0	6.1	4.9	7.3	6.1	8.5	6.7	9.4	7.3	10.4	7.9	11.3	8.5	12.2		
1500 x 133			Air flow [m³/h]	374	561	749	936	1120	1306	1494								
			Pt [Pa]	5	11	20	31	44	60	78								
			Ps [Pa]	3	7	13	20	29	40	52								
			NR [dB(A)]	12	<15	19	26	32	39	43								
			X [m]	3.7	6.4	4.3	7.9	4.9	9.1	6.1	10.4	7.6	11.3	8.2	11.9	8.8	12.8	

Note

The values provided are for the grille-plenum assembly.

The legend

ØD [mm] - Diameter plenum

X [m] - The length of the air jet at a speed of 0.5 and 0.25 m/s

NR [dB (A)] - Noise level considering room attenuation of 10 dB

Pt [Pa] - Total pressure loss

Ps [Pa] - Static pressure loss

Installation

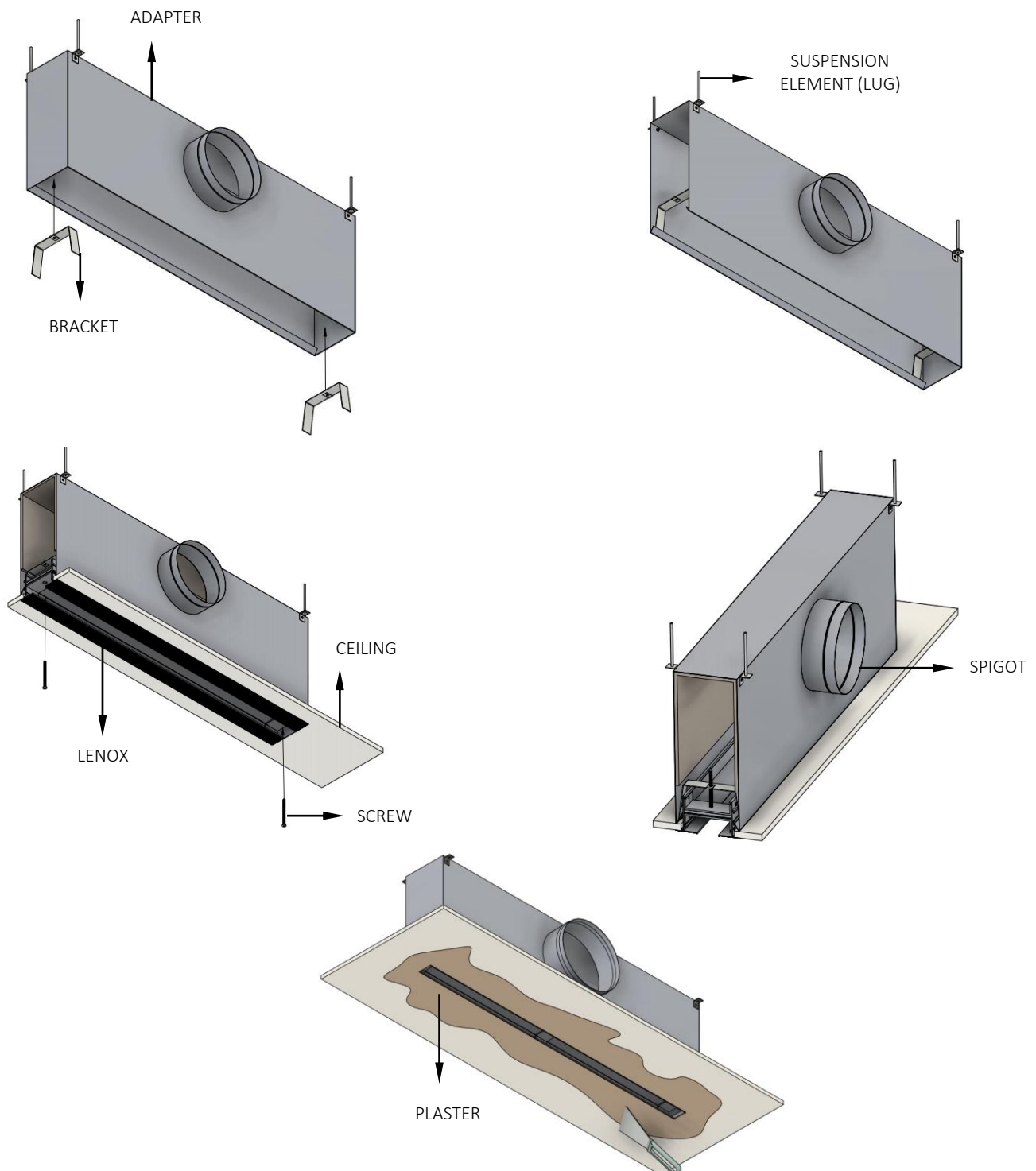
The diffuser is mounted in a false continuous ceiling or on the wall.

The fixing of the plenum diffuser is done by means of "U" type mounting systems (bracket), positioned inside the plenum and the screws.

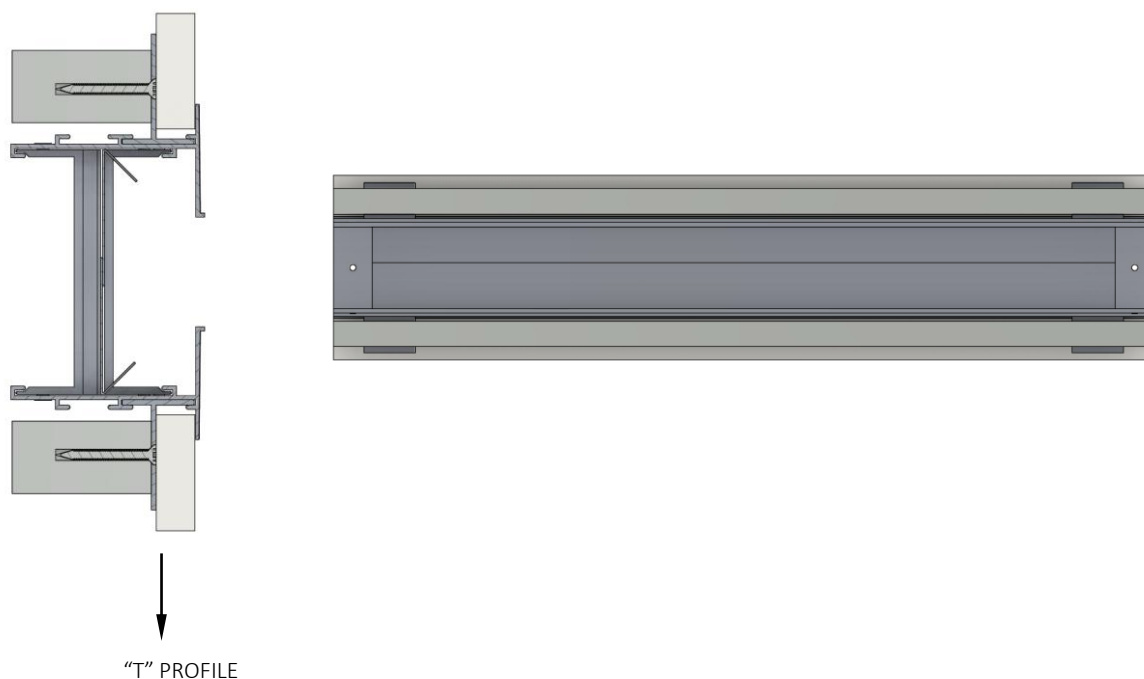
If the product does not have a functional role (inactive transition sections) or is installed on the wall, then a "T" profile can be used to fix the diffuser. This profile is requested separately.

After fixing, apply gypsum plaster (adhesive) over the diffuser frame and then apply wall paint.

Installation in continuous ceiling



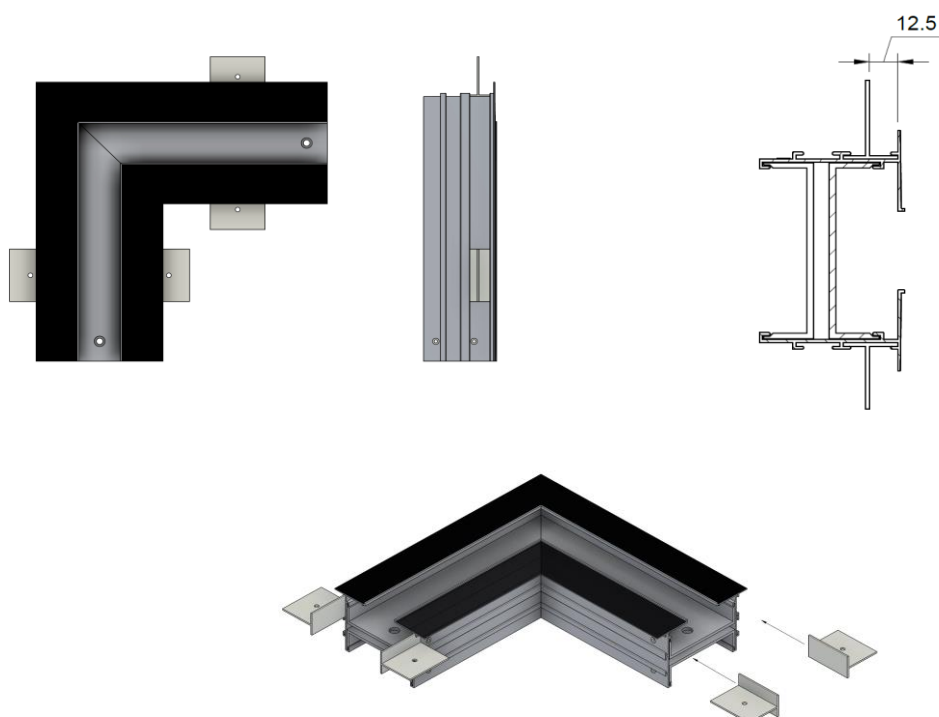
Wall mounting and transition sections (no functional role)



The "T" profile is ordered together with the LENOX diffuser and is installed by the manufacturing department in the diffuser. The positioning of the "T" profile on the diffuser channel is done according to the thickness of the gypsum board (12.5 or 9.5 mm) . The gypsum board thickness is specified by the customer when ordering.

Fixing corner element (angle) in the ceiling

The corner elements, angle 90° and 135° are equipped by the production with "T" profile for gypsum thickness 12.5 mm. On request, they can be delivered with a "T" profile for gypsum thickness 9.5 mm.



Order code

Example on how to place an order

Type	Length	Slot	Section	Accessories	Installation	Finish
LENOX						
On request						
25, 38, 51, 64, 76 mm						
S1 – Left end section						
S2 – Middle section						
S3 – Right end section						
AIZ - Insulated adapter						
AN - Uninsulated adapter						
Perforated damper (plenum box)						
Bracket (standard)						
"T" profile (optional)						
Frame anodized black and blades RAL 9005						
RAL.. - Other RAL colors on request						