

LINEO PRO SINGLE 75

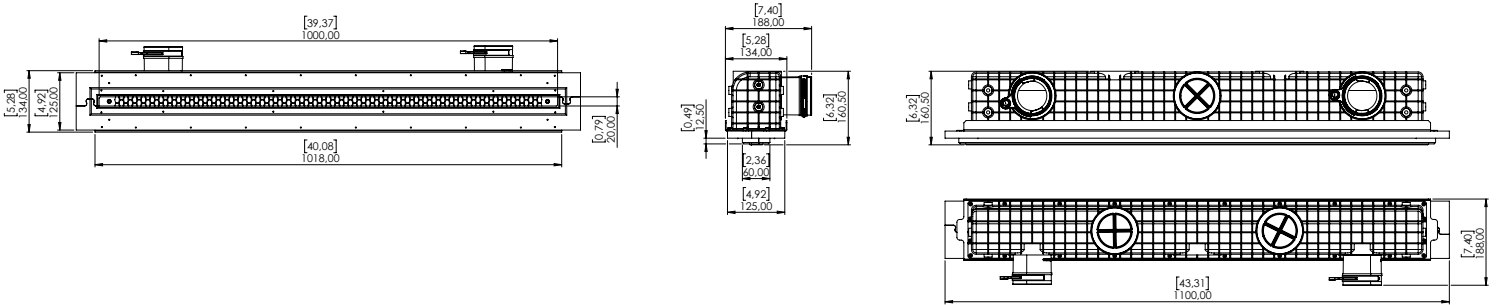
Hidden linear ventilation diffuser



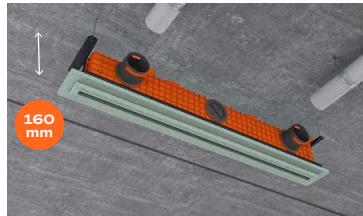
75 mm connections / 1 slot × 1000 mm × 20 mm / with damper

Linear ventilation diffuser designed for direct mounting on gypsum profiles. Its slim slot design integrates seamlessly into plasterboard ceilings and walls, providing efficient airflow with a clean, minimalist aesthetic.

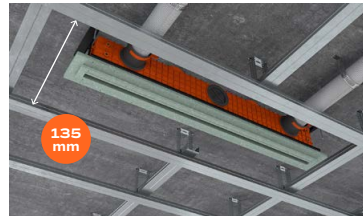
- Fixed 1 m length, designed for concrete ceiling installation before gypsum framing.
- Minimum installation height: only 160 mm of space required.
- Suitable for vertical or horizontal installation.



The diffuser is fixed to the concrete ceiling before gypsum board framing is installed.



Minimum installation height: 160 mm / ≈ 6,3".

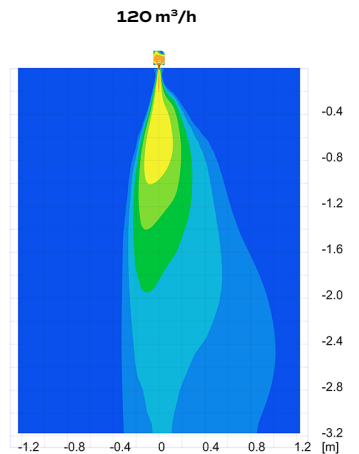
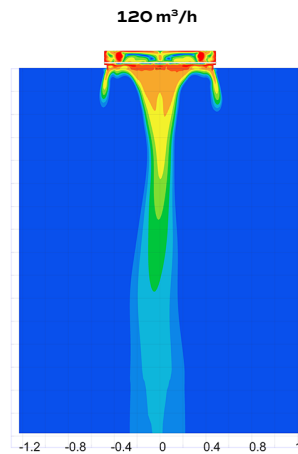
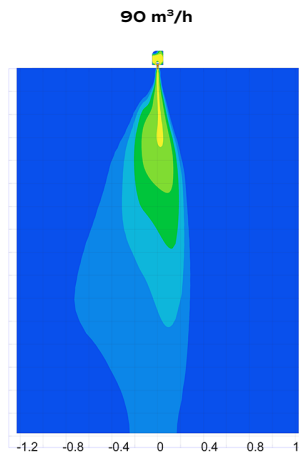
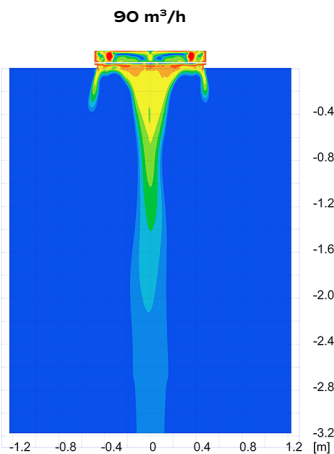
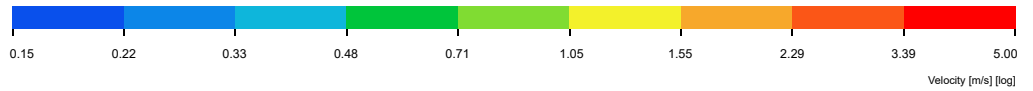


Installation width between profiles: 135 mm / ≈ 5,31".



Important: During installation, all fixing screws must be fully tightened.

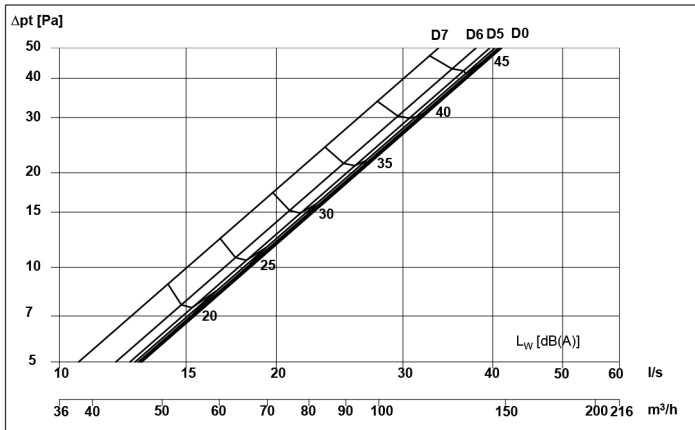
THROW DISTANCE



FLOW NOISE (in accordance with ISO 3741) and PRESSURE DROP test report

SUPPLY

Diagram for pressure and flow noise:



$$L_{Woct} [dB] = L_{WA} + K_{oct}$$

q [l/s]	D _{pt} [Pa]	L _{WA} [dBA]		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
-	-	33	K _{oct}	-33	-9	-2	1	-5	-17	-26	-25

Octave correction factors to the diagram are calculated at the listed value of either q, Δp_t or L_{WA}/L_{DA}

Calculation of pressure and sound effect according to flow:

Sound effect: $L_{W(Oct \text{ or } A)} = k \cdot \log(q) + L_0$

L_W - sound effect [dB]

q - flow [l/s]

k - factor, sound effect [-]

K_{factor} - factor, balancing [l/(s·√Pa)]

Total pressuredrop: $\Delta p_t = c_{pt} \cdot q^2$

L₀ - addend, sound effect [-]

p_t - pressuredifference, balancing [Pa]

Δp_t - total pressuredrop [Pa]

Balancing: $q = K_{factor} \cdot \sqrt{p_i}$

c_{pt} - factor, total pressuredrop [Pa·s²/l²]

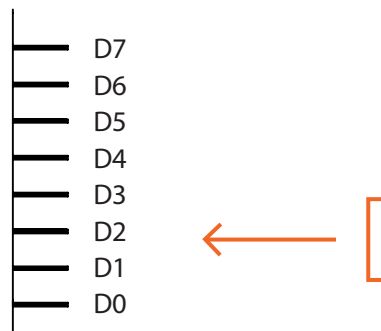
	Total p c _{plot}	Balancing K-factor		L _{WA}	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
D0	0.0295	Not measured	k Lo	61.6 -53.2	37.5 -19.6	68.6 -61.2	52.5 -34.6	67.9 -63.2	86.0 -101.9	91.2 -116.8	28.0 -26.4	28.7 -25.6
D1	0.0296	Not measured	k Lo	65.9 -59.0	18.5 10.0	56.1 -42.9	64.1 -51.2	69.8 -64.9	81.7 -95.8	78.8 -99.0	18.6 -13.1	20.3 -11.3
D2	0.0298	Not measured	k Lo	61.3 -53.0	39.7 -23.7	57.6 -43.2	53.4 -36.8	68.7 -64.4	83.6 -98.8	81.0 -102.5	13.8 -5.6	14.7 -3.4
D3	0.0302	Not measured	k Lo	63.1 -54.8	39.5 -23.9	72.8 -68.0	55.2 -38.0	68.9 -63.9	86.9 -103.1	95.5 -123.7	21.9 -17.9	22.4 -15.1
D4	0.0308	Not measured	k Lo	72.3 -68.0	48.2 -36.5	73.6 -67.2	72.0 -62.2	72.5 -69.2	83.0 -97.3	90.2 -115.4	32.2 -33.5	32.7 -30.7
D5	0.0318	Not measured	k Lo	66.3 -58.5	17.8 9.2	58.2 -44.0	60.2 -43.8	74.5 -71.8	93.0 -111.1	83.7 -105.4	24.5 -21.7	24.5 -17.2
D6	0.0348	Not measured	k Lo	66.5 -57.8	45.2 -32.0	66.2 -53.4	67.3 -52.8	65.3 -57.9	71.1 -77.6	90.7 -114.1	22.7 -18.6	23.4 -16.2
D7	0.0442	Not measured	k Lo	68.7 -59.1	69.6 -60.6	62.2 -46.5	68.6 -53.2	67.4 -58.8	83.8 -92.3	96.5 -118.3	29.7 -26.6	29.8 -24.9

AIRFLOW BALANCING

The diffuser is equipped with an airflow balancing damper. The **aerodynamic damper** is located inside the diffuser and is conveniently adjustable from the outside.

Setting the damper position with the gauge*:

- ✓ Insert the gauge through the diffuser grille until it contacts the balancing damper.
- ✓ Take the reading relative to the ceiling line.
- ✓ Damper positions are indicated on the gauge.



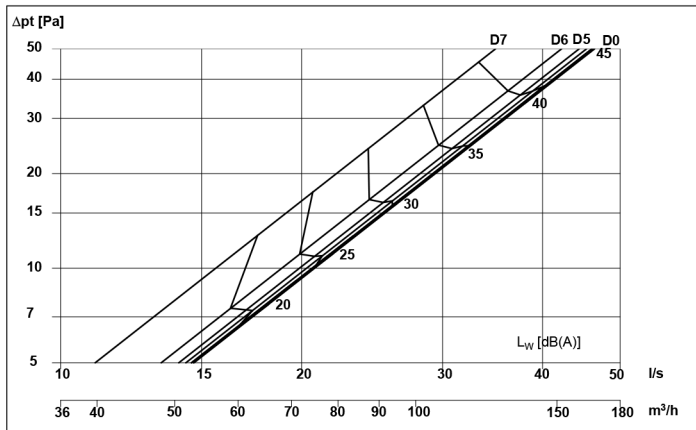
* The damper-position gauge is supplied with the diffuser.

D0 – damper fully open.
D7 – damper fully closed.

FLOW NOISE (in accordance with ISO 3741) and PRESSURE DROP test report

EXTRACT

Diagram for pressure and flow noise:



$$L_{Woct} [dB] = L_{WA} + K_{oct}$$

q [l/s]	D _{pt} [Pa]	L _{WA} [dBA]		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
-	-	33	K _{oct}	-28	-3	-1	1	-5	-16	-22	-22

Octave correction factors to the diagram are calculated at the listed value of either q, Δp_t or L_{WA}/L_{DA}

Calculation of pressure and sound effect according to flow:

Sound effect: $L_{W(oct \text{ or } A)} = k \cdot \log(q) + L_0$

L_W - sound effect [dB]

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L₀ - addend, sound effect [-]

p_t - pressuredifference, balancing [Pa]

Δp_t - total pressuredrop [Pa]

Balancing: $q = K_{factor} \cdot \sqrt{p_i}$

c_{pt} - factor, total pressuredrop [Pa·s²/l²]

	Total p c _{plot}	Balancing K-factor		L _{WA}	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
D0	0.0232	Not measured	k Lo	62.4 -58.6	16.4 9.7	41.1 -26.1	44.0 -26.7	70.6 -71.1	91.2 -112.1	87.5 -114.3	40.9 -48.6	41.0 -45.3
D1	0.0233	Not measured	k Lo	56.3 -49.4	34.9 -22.8	28.9 -8.1	57.4 -48.0	49.8 -39.0	72.9 -84.1	96.0 -126.9	44.2 -53.3	44.7 -53.2
D2	0.0235	Not measured	k Lo	71.0 -71.9	35.1 -18.5	35.0 -17.0	64.2 -57.8	71.5 -72.5	102.3 -129.7	94.0 -124.1	43.8 -52.6	44.6 -50.8
D3	0.0236	Not measured	k Lo	52.7 -44.5	35.1 -17.8	28.5 -7.5	44.7 -27.8	54.7 -48.1	81.2 -97.8	90.1 -117.6	33.6 -36.9	33.7 -35.0
D4	0.0243	Not measured	k Lo	57.2 -50.9	24.6 -0.3	45.1 -31.7	43.7 -26.3	60.0 -55.2	82.7 -99.7	90.1 -118.0	25.7 -24.5	26.0 -22.6
D5	0.0253	Not measured	k Lo	58.4 -51.9	37.6 -24.2	44.7 -31.3	50.2 -35.7	57.5 -50.6	86.3 -104.0	99.9 -132.4	24.8 -22.8	24.9 -20.5
D6	0.0280	Not measured	k Lo	57.7 -50.0	39.1 -29.6	49.9 -38.9	57.5 -45.9	49.8 -37.9	82.0 -96.0	95.9 -125.0	28.5 -28.7	28.9 -26.6
D7	0.0410	Not measured	k Lo	72.6 -70.5	37.0 -21.1	37.9 -20.1	72.8 -66.7	66.8 -62.4	105.0 -126.9	116.4 -151.4	25.8 -23.4	26.6 -20.6

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