

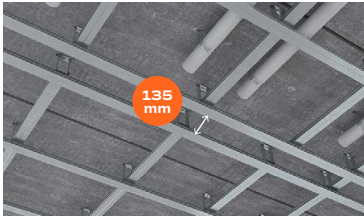
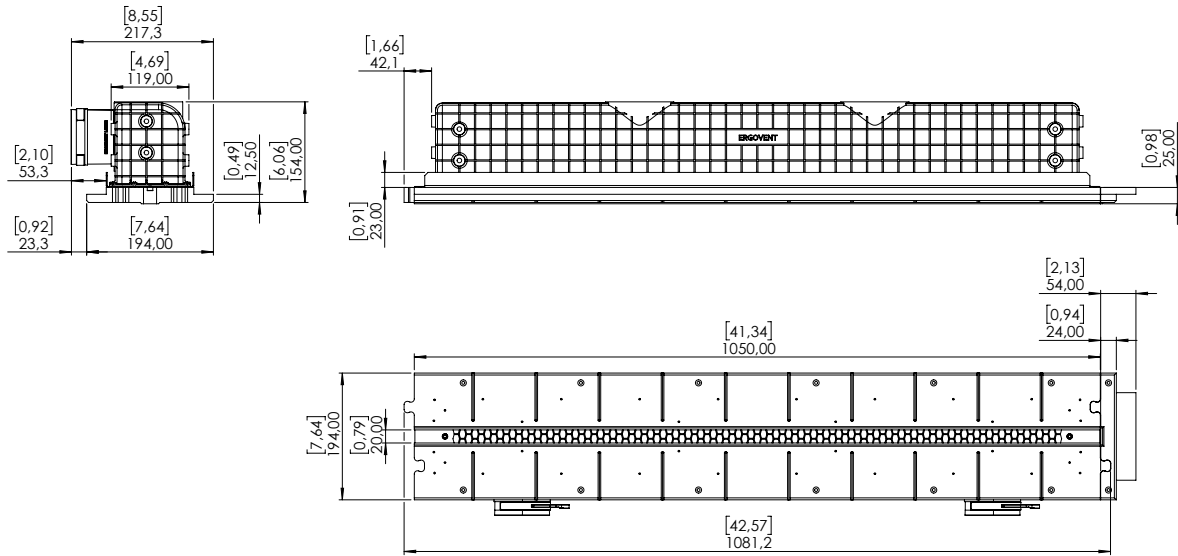


LINEO PRO PUZZLE 75

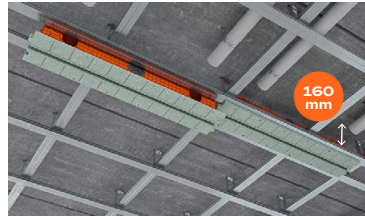
Hidden linear ventilation diffuser

75 mm connections / 1 slot × 1050mm × 20mm / with damper

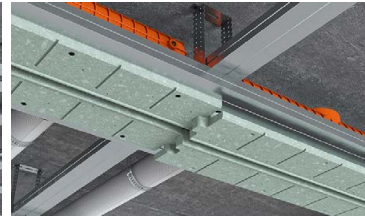
Hidden linear diffuser featuring innovative PUZZLE LOCK technology for quick, precise assembly on gypsum profiles. Its minimal slot profile integrates seamlessly into plasterboard ceilings and walls, delivering efficient airflow control with a clean, discreet finish. Modular puzzle-lock design connects 1 m diffuser segments for multi-metre runs, installable by one person.



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



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

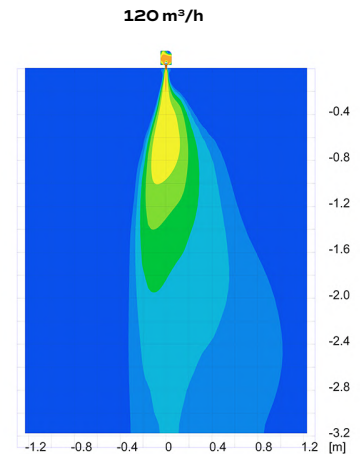
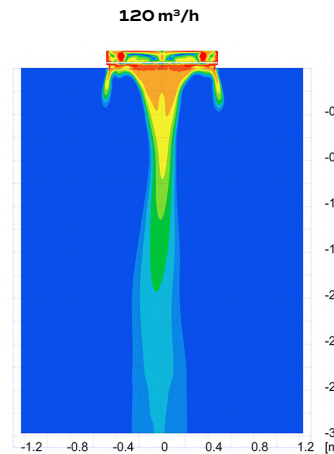
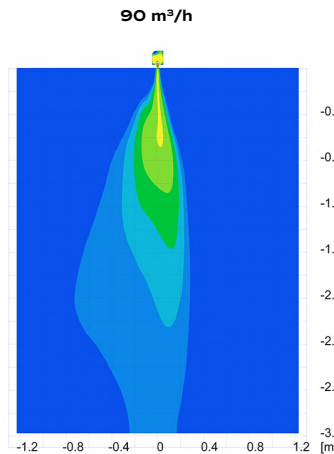
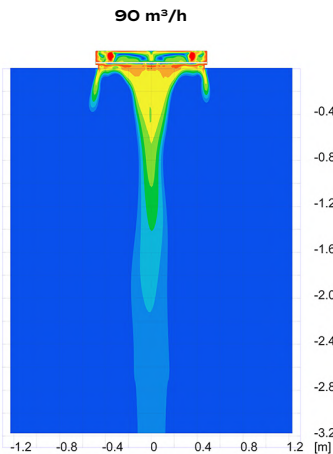
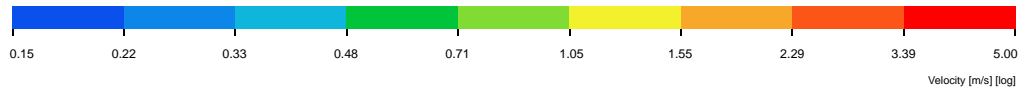


Patented technical solution: the PUZZLE LOCK system allows diffusers to be connected.



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

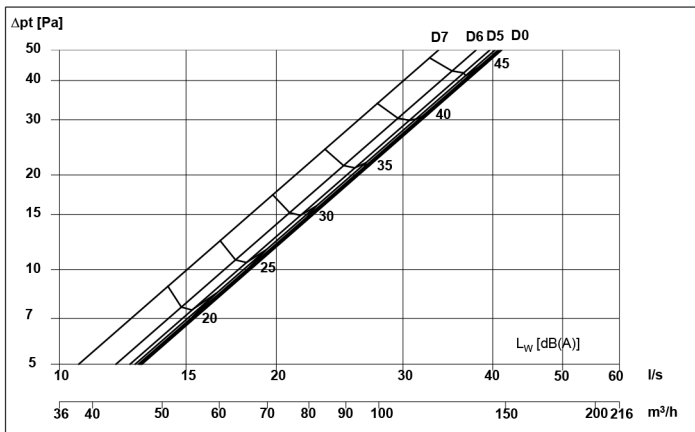
THROW DISTANCE



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]	Δp _t [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_i - 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.



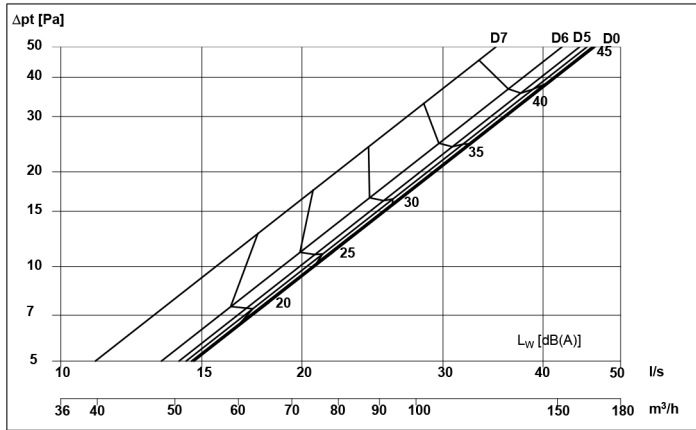
* The damper-position gauge is supplied with the diffuser.

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:



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

q [l/s]	Δp _t [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: $L_{W(Oct\ or\ A)} = k \cdot \log(q) + L_0$

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: $q = K_{factor} \cdot \sqrt{p_t}$

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

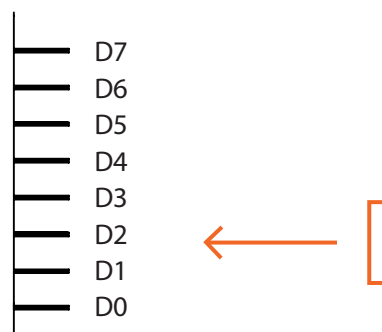
	Total p C _{ptot}	Balancing K-factor		L _{WA}	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
D0	0.0232	Not measured	k Lo	62.4 -58.6	16.4 9.7	41.1 -26.1	44.0 -26.7	70.6 -71.1	91.2 -112.1	87.5 -114.3	40.9 -48.6	41.0 -45.3
D1	0.0233	Not measured	k Lo	56.3 -49.4	34.9 -22.8	28.9 -8.1	57.4 -48.0	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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