

RONDO-COANDA 125

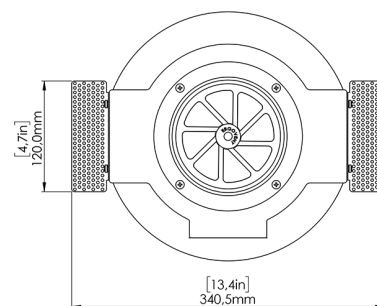
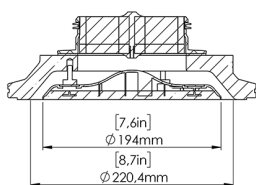
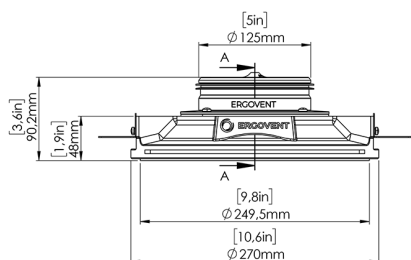
Hidden ventilation diffusers
for ceilings and walls



The gypsum cover "armor" is a patented solution that protects against damage.

125mm connection / with damper

Round-shaped diffuser is a recessed ventilation diffuser designed to deliver air along the ceiling surface using the **COANDA effect** that is ideal for modern interiors where airflow comfort and discretion are key. Ideally suited for spaces where people are often directly beneath the diffuser—air movement is virtually imperceptible while the room's microclimate remains balanced. High-quality gypsum body: robust, bubble-free casting with integrated mounting elements. Smooth, paint-ready surface finish.



Minimum installation height: 140 mm
≈ 5,51"



A fiberglass liner is included with the product



Easy and fast installation



Airflow damper is included with the product



no damper



1 segment



2 segments



3 segments



4 segments /
full open



4 segments /
75% open

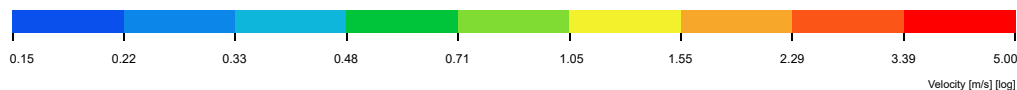


4 segments /
50% open

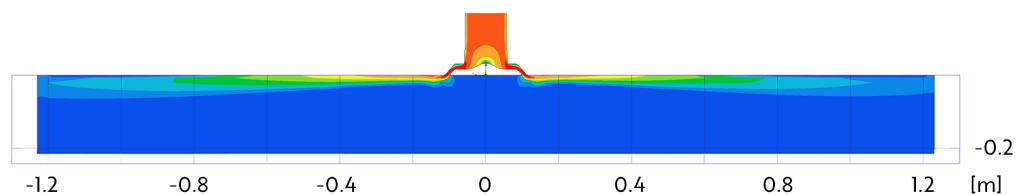


4 segments /
25% open

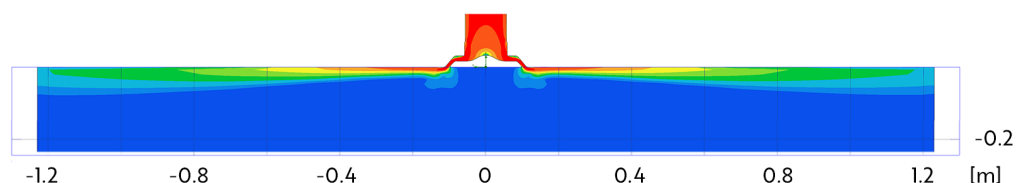
THROW DISTANCE



85 m³/h



120 m³/h

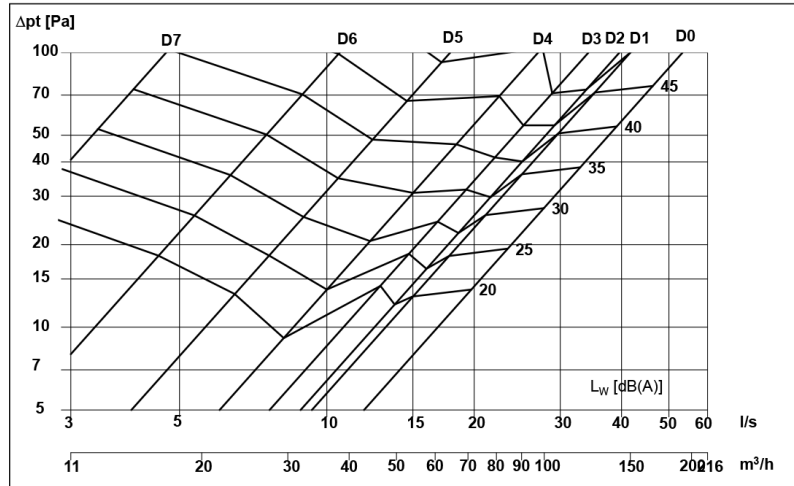


SOUND MEASUREMENT TEST REPORT

In accordance with ISO 3741

SUPPLY

Diagram for pressure and flow noise:



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

q [l/s]	Dp _t [Pa]	L _{WA} [dBA]		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
-	-	33	K _{oct}	-6	0	-1	-4	-4	-7	-17	-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]

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]

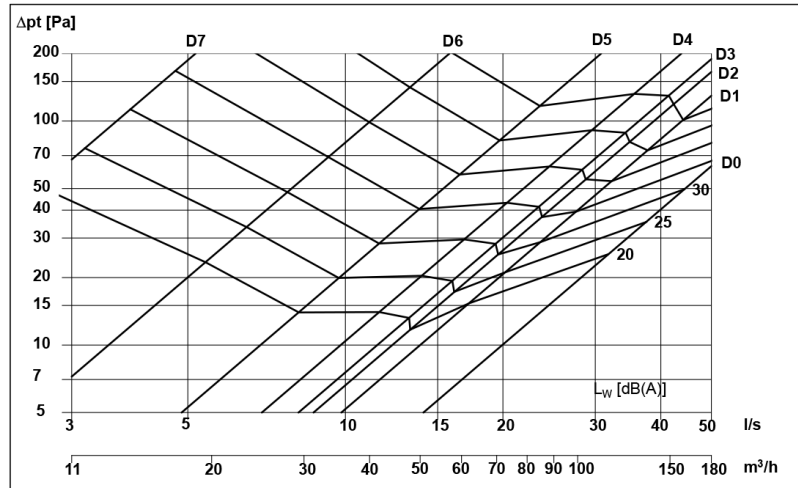
	Total p c _{ptot}	Balancing K-factor		L _{WA}	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
D0	0.0352	Not measured	k Lo	67.3 -67.2	50.8 -42.6	48.9 -32.8	70.9 -68.4	73.4 -79.2	65.9 -75.0	59.9 -65.4	69.4 -88.2	69.9 -92.8
D1	0.0576	Not measured	k Lo	67.2 -59.0	72.5 -78.1	37.7 -16.4	51.8 -37.5	64.6 -57.7	63.7 -59.7	78.1 -81.5	81.4 -94.5	82.9 -104.4
D2	0.0639	Not measured	k Lo	76.6 -67.2	86.8 -93.4	58.3 -43.3	52.4 -36.8	67.0 -59.2	78.3 -73.5	82.0 -80.3	90.2 -104.0	90.6 -110.8
D3	0.0855	Not measured	k Lo	85.5 -74.8	86.1 -83.4	32.1 -6.6	58.9 -42.9	77.6 -70.4	87.0 -79.4	99.1 -100.8	87.2 -95.7	88.4 -102.0
D4	0.1371	Not measured	k Lo	56.7 -31.7	58.4 -38.8	43.3 -19.8	51.4 -31.4	57.0 -39.9	56.8 -34.8	56.7 -37.3	74.6 -72.5	74.9 -76.7
D5	0.3139	Not measured	k Lo	71.1 -37.7	63.4 -36.3	40.2 -5.1	75.5 -43.2	63.1 -34.0	70.2 -40.0	76.3 -51.4	71.8 -56.0	72.4 -62.0
D6	0.8871	Not measured	k Lo	68.0 -24.6	24.5 10.9	24.0 13.2	61.2 -18.8	65.9 -25.9	63.7 -26.1	78.4 -40.7	73.4 -44.3	75.9 -51.1
D7	4.5308	Not measured	k Lo	69.0 -6.7	101.4 -34.5	39.7 0.2	47.6 -1.0	59.2 -6.4	80.1 -17.1	61.3 -8.4	67.9 -18.2	68.5 -23.9

SOUND MEASUREMENT TEST REPORT

In accordance with ISO 3741

EXTRACT

Diagram for pressure and flow noise:



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

q [l/s]	Δp _t [Pa]	L _{WA} [dBA]		K _{oct}	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
-	-	33			0	-1	-3	-3	-5	-6	-13	-21

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

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

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	0.0252	Not measured	k Lo	69.2 -83.9	42.8 -35.8	45.1 -39.2	84.0 -113.1	46.2 -49.7	57.7 -69.5	87.6 -121.2	84.0 -122.1	84.2 -128.4
D1	0.0518	Not measured	k Lo	73.4 -70.7	26.5 -5.3	53.8 -44.6	52.7 -45.1	48.2 -38.8	67.7 -68.5	83.5 -90.1	84.8 -100.0	85.4 -109.1
D2	0.0662	Not measured	k Lo	59.7 -47.1	20.7 6.6	23.5 1.6	35.6 -17.0	42.9 -27.3	59.0 -51.5	69.0 -66.0	77.7 -84.5	77.7 -92.7
D3	0.0755	Not measured	k Lo	60.5 -47.9	56.9 -44.9	56.0 -41.1	61.3 -51.6	49.6 -36.3	62.9 -57.6	61.9 -55.4	71.2 -75.0	72.2 -84.9
D4	0.1042	Not measured	k Lo	61.6 -45.5	46.0 -30.1	56.3 -39.3	56.1 -39.8	53.3 -37.6	59.2 -48.1	67.0 -58.9	77.4 -80.1	78.7 -89.5
D5	0.2111	Not measured	k Lo	65.1 -39.3	85.0 -65.9	46.8 -19.8	58.0 -33.2	58.1 -33.8	60.4 -38.3	73.9 -57.0	88.8 -80.6	89.9 -89.0
D6	0.8025	Not measured	k Lo	64.0 -26.9	32.0 2.8	51.8 -18.1	41.2 -6.4	58.3 -24.1	71.2 -39.3	65.3 -35.1	84.5 -59.8	85.1 -67.9
D7	7.4766	17.2	k Lo	57.9 -4.1	40.3 11.2	40.6 -1.7	56.0 -11.0	39.5 3.1	50.1 -3.1	73.3 -20.3	68.2 -23.1	69.3 -28.8