

داكت كاسل للصناعات المندسية





Overview

Plenum box is designed to ensure equal distribution of air across the slot diffusers. The supply plenum box has acoustic lining to reduce noise generated inside the duct due to airflow turbulence before reaching the diffuser. The built-in damper can be operated from the spigot connection or from face of diffuser.

Insulated Type.

- With 6, 9, 12, 16 and 19 mm ArmaFlex internal lining with non-flammable adhesive.
- With 25 mm thick acoustic lining with black glass tissue facing, 48kg/m3 density. Acoustic lining is fixed inside the plenum box with non-flammable adhesive and mechanical fastener (cupped head pins).
- Or as per Client Request.

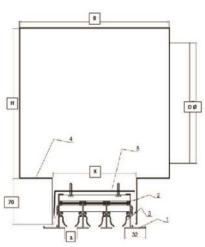
Optional

- The Inside Insulation Covered with Galvanized Perforated Sheet Insuring Full Protection
- Includes Round Volume Control Damper



Standard Construction

 Built of galvanized steel sheet gauge 24, conform to ASTM A653, Lock Forming Quality, G90 zinc coating.



Standard Sizes:

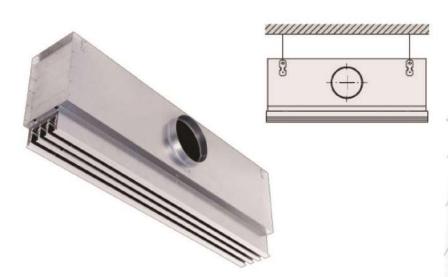
No Of Slots	LENGTH (mm)	X (mm)			D	Н	В
		S=16mm	S=20mm	S=25mm	Ø (mm)	(mm)	(mm)
1	1200	50	55	60	203	300	120
2	1200	85	93	103	203	300	150
3	1200	118	135	145	254	300	200
4	1200	150	176	187	254	300	240
5	1200	185	205	230	305	360	290
6	1200	217	240	270	305	360	330

Non Standard Sizes:

Will Be Fabricated According to recommeded by the Approved air outlet manufacturer.

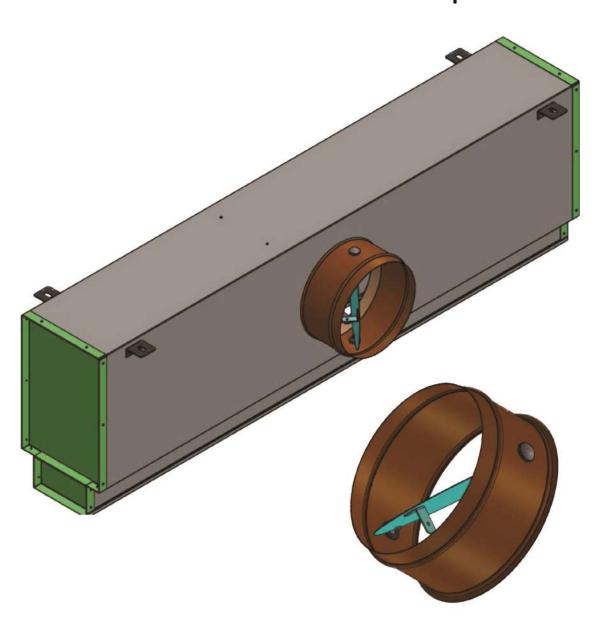
Hanging Mehod

4 Suspension lug



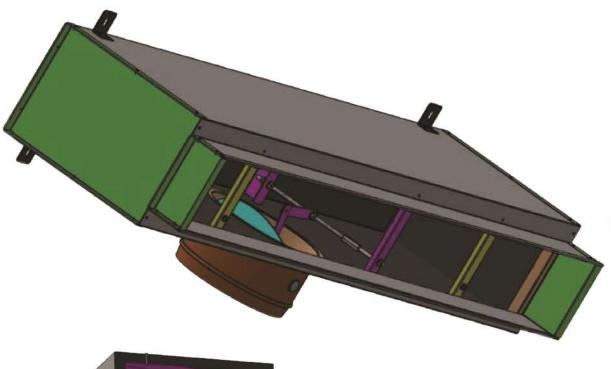


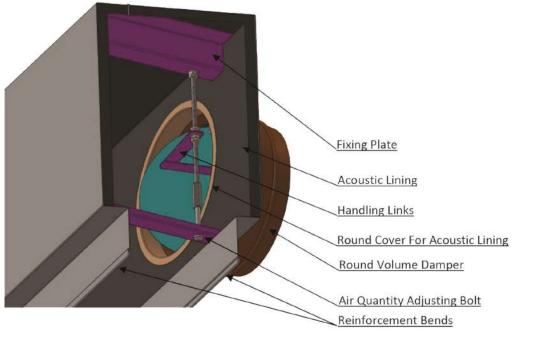
Linear Slot Diffuser Plenum Box Included Round Volume Damper



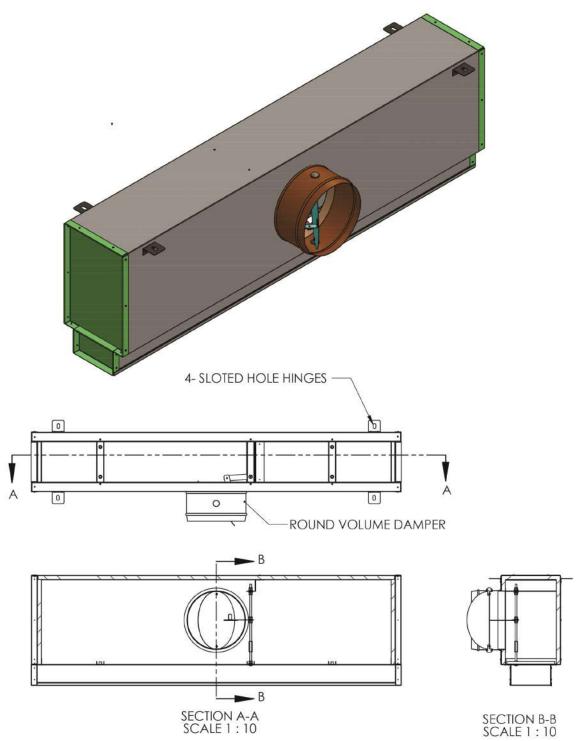


Construction Details:

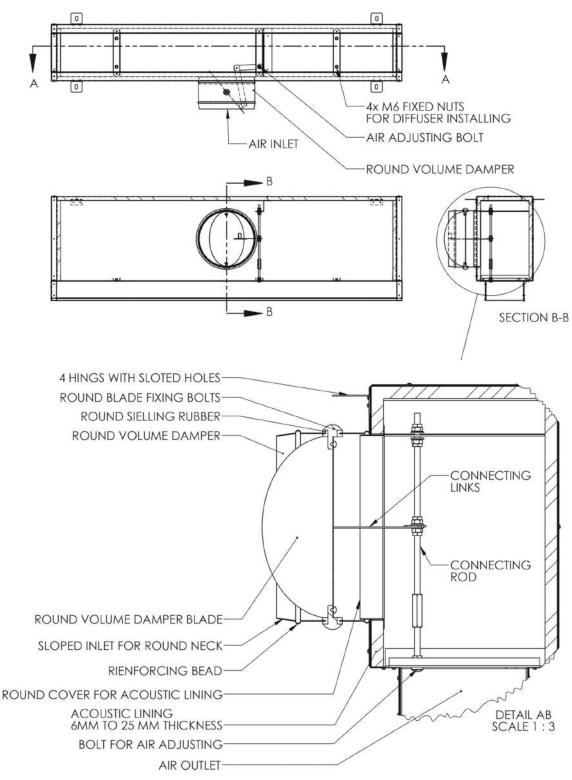


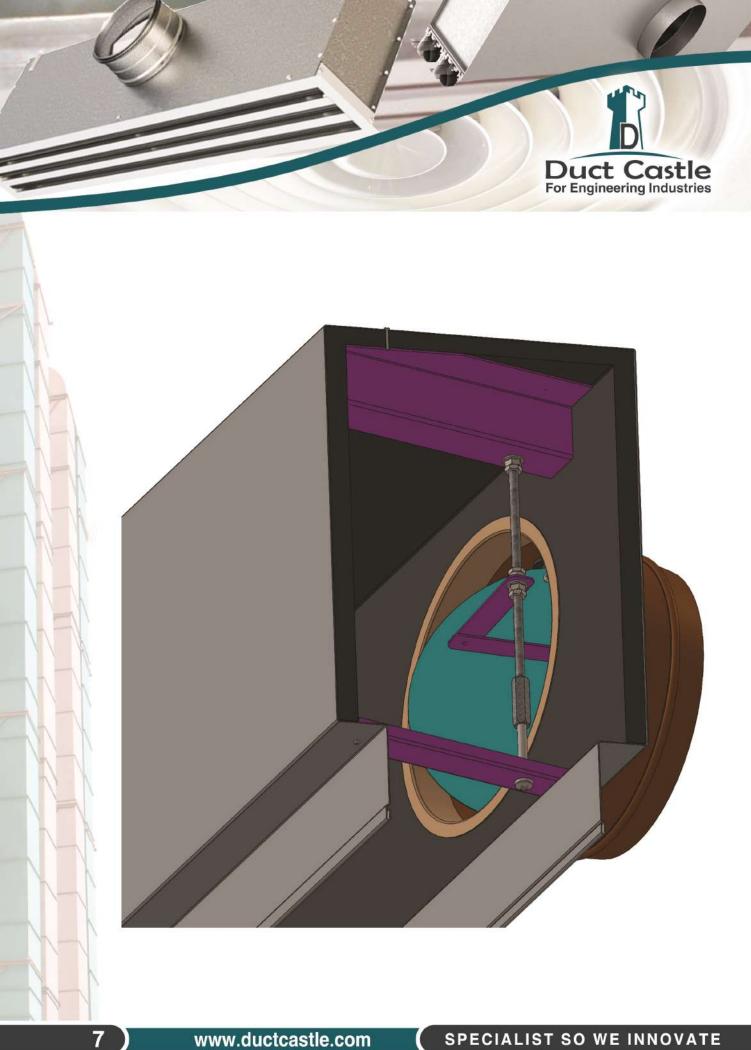




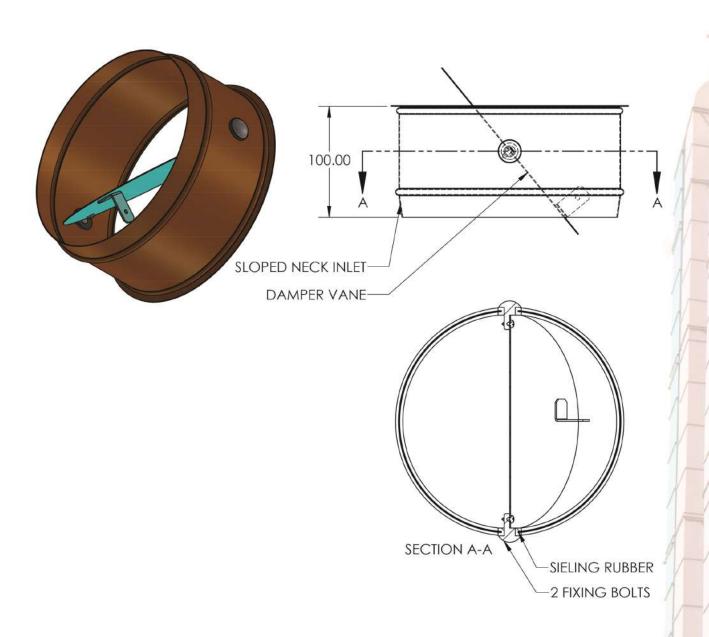














Technical Details:

<u>Plenum box With Round VD</u> is designed to ensure equal distribution of air across the slot diffusers. The supply plenum box has acoustic lining to reduce noise generated inside the duct due to airflow turbulence before reaching the diffuser. The built-in damper can be operated from face of diffuser.

Insulated Type.

- With 6, 9, 12, 16,19 and 25 mm "K-Flex ST" self-adhesive sheets (K-Factor = 0.035 W/m.k at 20 C°, Density = 45-65 kg/m3)
- Or With 25 mm thick acoustic lining with black glass tissue facing, 48kg/m3 density. Acoustic lining is fixed inside the plenum box with non-flammable adhesive and mechanical fastener (cupped head pins).
- Or as per Client Request.

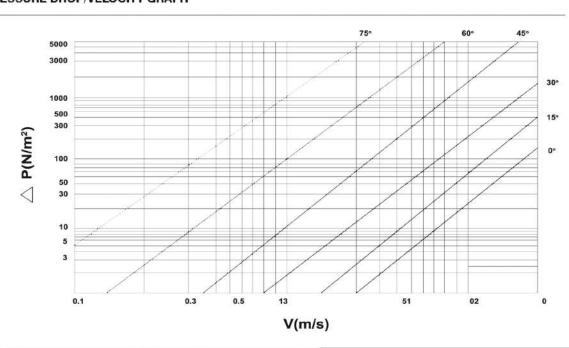
Main Construction

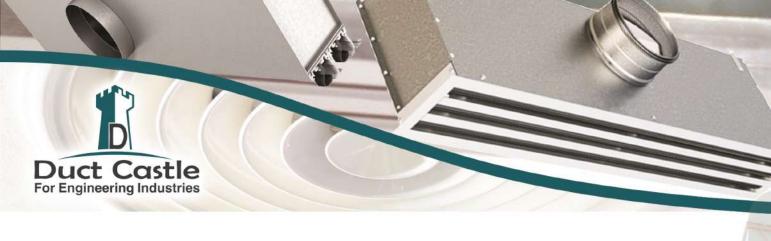
- Built of galvanized steel sheet gauge 24, conform to ASTM A653, Lock Forming Quality, G90 zinc coating.

Volume Damper Technical Data:

To determine static pressure drop through an open damper, Please Follow the below Chart.

PRESSURE DROP/VELOCITY GRAPH

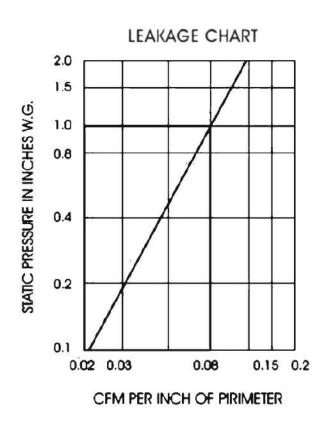




DETERMINING LEAKAGE

To determine damper leakage, enter damper leakage chart from the right side. Given the static pressure the damper will encounter in closed position, move horizontally to the diagonal line, then go straight down the chart to CFM of leakage per inch of perimeter Example:

Damper operating 1" W.G. static pressure will leak 0.08 CFM per inch of perimeter, total leakage on an 8" round will be 8 x 3.14×0.08 CFM per inch perimeter = 2 CFM leakage Static pressure and CFM are corrected to 0.075lb./cuft. Air density.



SPECIALIST SO WE INNOVATE



Location

Website



Contact







28km, Alex-Cairo Desert Road, Abu Rawash Industrial Zone, Giza, Egypt.





+20 1273300121 +20 1270139060



sales@ductcastle.com

info@ductcastle.com