



Alumicore 14" #243006 & 16" #363005 Acoustical Flexduct

Technical Specification Sheet

Core construction

- 1) Two layers of aluminum and two layers of polyester encapsulate a bronze coated steel wire helix using high quality fire retardant heat cured adhesives to form an air tight inner core.
- 2) The layers are structured as follows:
Starting from the inside of the core, the layers are - aluminum (7 micron) polyester (12 micron) wire (1mm), polyester (12 micron) and aluminum 25 Micron.
- 3) Wire spacing is 3/4 inch. Wire is bead wire that is very strong so as to provide a solid structure for the duct.

The inner two polyester layers form a protective layer against on both sides of the wire helix for extra strength and durability. This combination with the added aluminum results in a flexible duct that is semi rigid and retains its shape when extended.

Insulation

- 100 percent Fiberglass
- R 4.2 – Density of 20KG/m³ and 1 inch thick
- R 8 – Density of 20 Kg/m³ and 2 inches thick

Outer jacket construction

- 1) 2 layers of polyester and one layer of aluminum using premium heat cured adhesives and forms very durable completely fire resistant outer jacket.
- 2) The layers of jacket are as follows:
Starting from the fiberglass outwards moving outwards, the layers are as follows
2 layers of 12 micron aluminum and one layer of 7 micron

Additional Information

- 1) The product is made according to all UL 181 requirements.
- 2) Added benefits besides rigidity and durability are the extra layers of aluminum adding far greater fire protection than required by UL 181.
- 3) The duct can stand up to at least 2000 pa (8" water column) of pressure
- 4) Airflow up to 30 m/s or 5400 fpm
- 5) Working temperature from -20 degrees Celsius to plus 140 degrees Celsius.