



Alumicore 8" #3620098 & 9" #4820098 Insulated 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.