



ALUMINIUM FLEXIBLE DUCT

INTRODUCTION

POLAR® Aluminium Flexible Duct is high performance insulated duct or non insulated duct for medium and low velocity heating, ventilating or air conditioning system, in both new and existing buildings.



CONSTRUCTION

POLAR® Aluminium Flexible Duct is unlike other duct, it gives a unique feature that only a light weight aluminium wraps over the fiber glass and comprises of two concentric Helical Ducts that house the fiberglass wool between them, making it a superior and sturdier product.

POLAR® Aluminium Flexible Duct is strong which for all high and low velocity air conditioning ventilation system and fire resistant with a flexibility of being compressed to 10% of this extended length, and come over with a spring steel wire helix to give excellent strength and flexible.



SOUND ATTENUATION

The acoustic performance of POLAR® Aluminium Flexible Duct is superior to rigid metal ducting and equal to other flexible ducts on the market. Figures are available.

INSULATED DUCT

POLAR® Aluminium Flexible Duct is available factory insulated with a layer of fiberglass covered with an outer casing of the same used.

Nominal Density (kg./m ³)		16		24		32	
Nominal Thickness (mm)		25	50	25	50	25	50
Thermal Resistance (R)	m ² K/W	0.67	1.35	0.71	1.43	0.74	1.47



INSTALLATION

Cutting and installation of POLAR® Aluminium Flexible Duct is simple. The only tools required are a knife and a wire cutter.

The great flexibility of POLAR® Aluminium Flexible Duct allows obstruction and tight situations to be overcome with ease. It is particularly beneficial for connection to air outlets in false ceilings, making adjustment to suit final positioning much easier.

Flexible duct must always be fully extended and bends made with adequate radius to prevent corrugation of the interior with consequent excessive resistance to air flow.

TECHNICAL DATA

WITH INSULATION FIBERGLASS WOOL

Diameter Available	4" (100mm)	12" (100mm)
	5" (125mm)	14" (125mm)
	6" (150mm)	16" (150mm)
	8" (200mm)	18" (200mm)
	10" (250mm)	20" (250mm)
Standard Lengths	10 Metres	
Compress	Up To 90%	
Standard Insulation	Fiberglass Wool 25mm and 50mm	
Insulation Density	16 kg/m ³ - 32 kg/m ³	
Temperature Range	-30°C - 100°C	
Steel Wire	1.0mm - 1.2mm	
Pressure Rating	250mm WG (+ve)	
	25mm WG (-ve)	

NON INSULATION FIBERGLASS WOOL

Diameter Available	4" (100mm)	12" (100mm)
	5" (125mm)	14" (125mm)
	6" (150mm)	16" (150mm)
	8" (200mm)	18" (200mm)
	10" (250mm)	20" (250mm)
Standard Lengths	10 Metres	
Compress	Up To 90%	
Temperature Range	-30°C - 100°C	
Steel Wire	1.0mm - 1.2mm	
Pressure Rating	250mm WG (+ve)	
	25mm WG (-ve)	

SIZE

POLAR® Aluminium Flexible Duct is available in diameter from 100mm to 500mm (4" – 20") the standard length is 10 meters. Other length available on order.

HANDLING

For transport and site handling the duct is compressed thus reducing freight, cartage and storage cost. The strength of the duct minimize damage due handling.



PT. ADIMAS ISOLASITAMA

AUTHORIZED DISTRIBUTOR

INSULATION, BUILDING, AIRCON & INDUSTRIAL INSTALLATION MATERIALS

Jl. Pangeran Jayakarta 131 - A / 11, Jakarta 10730 - INDONESIA

Telp. (021) 6257888 (H), 6397888 (H) Fax. (021) 6258836 - 6393079

sms customer care : 081213157888

E-mail : info@adimas.co.id

website : www.adimas.co.id

ALSO AVAILABLE :



Diffuser Duct



Pre-insulated Duct



Aluminium Tape



Seng & Galvanil