



DUCTING

Accessories

FLATPACK LOW PROFILE DUCT SYSTEM



Description

FlatPack duct is a low profile alternative to round PVC pipe commonly used in ventilation systems. It has a compact design that makes it ideal for applications where space is limited and features a smooth inner surface which minimises pressure loss and therefore improves airflow. The modular, slide-together design of the system makes it simple to install into most applications. There are two sizes of FlatPack ducting available, the 125 series and the 165 series.

Typical Applications

Designed for exhaust and supply air ventilation systems in residential accommodation such as apartments and homes. Suitable for exhausting air from toilets, bathrooms and low pressure kitchen systems.

Features

- Can be cut down to size to fit into virtually any space.
- Large range of fittings ensures duct can be installed into most applications.
- Specially designed flat channel clip makes mounting duct easy.
- A cost effective alternative to sheet metal ducting where airflows allow.
- Components are light weight, corrosion resistant and hygienic.

Construction

Duct is extruded and moulded from self-extinguishing uPVC

Testing

UL181.9-1994, AS1530.3-1999

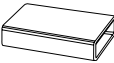





















Elta Fans FlatPack low profile ducting has been shown to comply with BCA2014 as an alternative solution. For further information please contact your local sales office for a copy of Aurecon Fire Engineering Assessment "Elta Fans FlatPack System" 11/12/2014.

Suggested Specification

The ducting shall be of the FlatPack low profile duct range as supplied by Elta Fans and be of the model number shown on the schedule/drawings.

Duct shall be manufactured from self extinguishing uPVC with a smooth inner surface. The system shall be a modular, slide-together design and come with a specially designed flat channel clip.

The duct system shall be tested to UL181.9-1994, AS1530.3-1999 and comply to BCA2014 as an alternative solution.

Description	125 Series	165 Series
 Flat rigid duct 2 metre long	FPD125-DUCT-2M 204mm 60mm	FPD165-DUCT-2M 220mm 90mm
 Duct connector	FPD125-CONDD	FPD165-CONDD
 Self seal connector duct to duct	FPD125-CONSSDD	FPD165-CONSSDD
 Self seal connector duct to fittings	FPD125-CONSSDF	FPD165-CONSSDF
 90° Horizontal bend	FPD125-HBEND-90	FPD165-HBEND-90
 45° Horizontal bend	FPD125-HBEND-45	FPD165-HBEND-45
 90° Vertical bend	FPD125-VBEND-90	FPD165-VBEND-90
 45° Vertical bend	FPD125-VBEND-45	FPD165-VBEND-45
 Equal T piece	FPD125-TPIECE	FPD165-TPIECE
 Flexible bend	FPD125-FLEXBEND	FPD165-FLEXBEND
 Round/rectangular rotating transition 90° bend - Ø150mm	FPD125-TR150-90	-
 Round/rectangular transition 90° bend - Ø150mm	-	FPD165-TR150-90
 Round/rectangular transition 90° bend - Ø125mm	-	FPD165-TR125-90
 Round/rectangular transition - Ø125mm	FPD125-TR125	-
 Round/rectangular transition - Ø150mm	-	FPD165-TR150
 Wall plate	FPD125-WPR	-
 Duct Clip - plastic	FPD125-CLIP	-
 Duct Clip - metal	FPD125-CLIPMETAL	FPD165-CLIPMETAL
Circular reducer/expanders		
 Circular reducer/ expander Ø125mm to Ø100mm		FPD-RED125/100
 Circular reducer/ expander Ø150mm to Ø100mm		FPD-RED150/100
 Circular reducer/ expander Ø150mm to Ø125mm		FPD-RED150/125
 Circular reducer/ expander Ø200mm to Ø150mm		FPD-RED200/150

FLATPACK LOW PROFILE DUCT SYSTEM

Performance Data

125 Series (204mm X 60mm)

Component	Description	Airflow L/s @ Pressure Loss, Pa			
		30L/s	60L/s	90L/s	120L/s
FPD125-DUCT-2M	Flat rigid duct, 204mm x 60mm, 2m long	3.9	14.4	30.8	52.7
FPD125-CONDD	Duct connector	0.3	1.1	2.0	3.5
FPD125-CONSSDD	Self seal connector duct to duct	1.2	3.2	6.5	10.4
FPD125-CONSSDF	Self seal connector duct to fittings	0.9	3.4	7.5	14.4
FPD125-HBEND-90	90° Horizontal bend	7.5	30.6	69.9	125.6
FPD125-HBEND-45	45° Horizontal bend	2.7	13.2	35.0	71.6
FPD125-VBEND-90	90° Vertical bend	4.5	17.9	40.2	71.2
FPD125-VBEND-45	45° Vertical bend	2.7	13.4	30.1	53.4
FPD125-TPIECE	Equal T piece	-	-	-	-
FPD125-FLEXBEND	Flexible bend	-	-	-	-
FPD125-TR150-90	Round/rectangular rotating transition 90° bend - Ø150mm	5.9	23.5	52.9	94.1
FPD125-TR125	Round/rectangular transition - Ø125mm	3.8	15.4	34.8	61.9

- Denotes no pressure loss data available

165 Series (220mm X 90mm)

Component	Description	Airflow L/s @ Pressure Loss, Pa					
		30L/s	60L/s	90L/s	120L/s	150L/s	180L/s
FPD165-DUCT-2M	Flat rigid duct, 220mm x 90mm, 2m long	0.7	2.3	4.7	7.8	11.7	16.3
FPD165-CONDD	Duct connector	0.0	0.0	0.1	0.2	0.4	0.7
FPD165-CONSSDD	Self seal connector duct to duct	0.1	0.1	0.2	0.4	0.6	0.9
FPD165-CONSSDF	Self seal connector duct to fittings	0.1	0.3	0.5	0.8	1.1	1.5
FPD165-HBEND-90	90° Horizontal bend	1.8	7.3	16.5	29.5	46.0	66.6
FPD165-HBEND-45	45° Horizontal bend	0.7	2.4	5.2	9.0	13.8	19.6
FPD165-VBEND-90	90° Vertical bend	1.7	6.2	13.7	24.1	37.3	53.3
FPD165-VBEND-45	45° Vertical bend	0.5	1.9	3.9	6.5	9.8	13.7
FPD165-TPIECE	Equal T piece	-	-	-	-	-	-
FPD165-FLEXBEND	Flexible bend	-	-	-	-	-	-
FPD165-TR150-90	Round/rectangular transition 90° bend - Ø150mm	2.8	10.6	23.6	41.8	65.4	94.1
FPD165-TR125-90	Round/rectangular transition 90° bend - Ø125mm	5.9	23.0	50.8	90.2	140.6	202.1
FPD165-TR150	Round/rectangular transition - Ø150mm	0.6	1.7	3.3	5.4	7.9	10.8

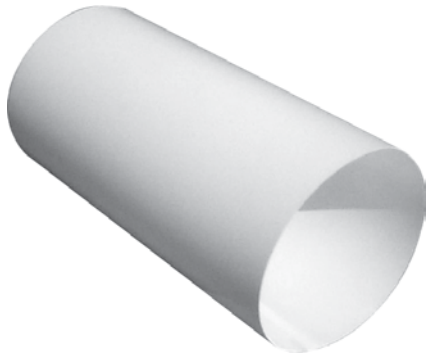
- Denotes no pressure loss data available

Circular reducer/expanders

Component	Description	Airflow L/s @ Pressure Loss, Pa (Exhaust only)			
		30L/s	60L/s	90L/s	120L/s
FPD-RED125/100	Ø125mm to Ø100mm	5.9	24.0	46.0	73.0
FPD-RED150/100	Ø150mm to Ø100mm	7.7	30.8	64.0	103.0
FPD-RED150/125	Ø150mm to Ø125mm	2.2	8.8	28.0	48.0
FPD-RED200/150	Ø200mm to Ø150mm	5.1	20.5	42.7	68.7

DUCT

Wall Tube



Features

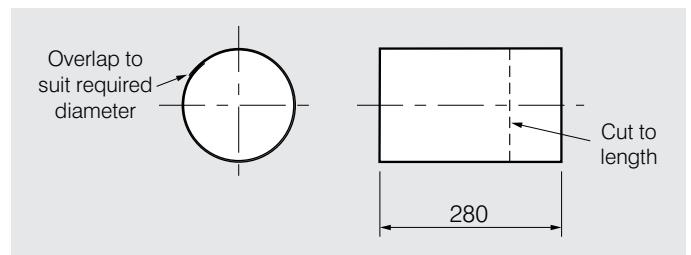
Wall tubes are designed for the wall mounting installation of a number of fan types. Wall tubes bridge the gap between the fan and the external louvre or shutter.

Constructed from robust flexible plastic, they are supplied to a standard length for cutting to the required size on site.

Selection Table

Wall Tube Part No.	Spigot Dia. Range, mm
WT130PPK	100-130
WT130PPK	100-130
WT230PPK	150-230
WT230PPK	150-230
WT370PPK	250-370
WT370PPK	250-370
WT370PPK	250-370

Dimensions



Flexible Duct



Model No DUCT..	Duct Diameter, mm	Duct Length, m	Bulk Pack Contents
100-3MPK	100	3	-
125-3MPK	125	3	-
150-6MPK	150	6	-
200-6MPK	200	6	-
100-6M	100	6	20 lengths
125-6M	125	6	20 lengths
150-6M	150	6	20 lengths

Features

Suitable for general exhaust and supply air applications such as bathrooms, ensuites and toilets. Fibre woven metallic duct provides durability and tear resistance. High tensile wire sprung to retain duct shape and flexibility. Construction contains high grade flame retardant with a 3 Zero fire rating - AS/NZS 4254.

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