

# FLATPACK

A low profile duct system for restricted ceiling spaces

- > Low profile modular design
- > Quick and easy to install
- > BCA compliant

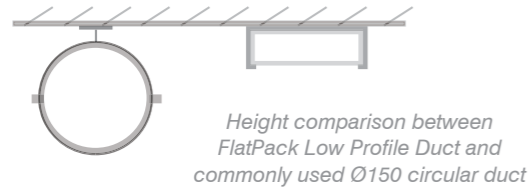


The **FlatPack** System is ideal for buildings such as apartments and hotels that have been designed with low ceiling heights. The system's smooth inner surface minimises pressure loss, while its easy-to-fit components make it quick to install.



# A low profile, easy to install modular system

The FlatPack Low Profile Duct System is the ideal alternative to 150mm round PVC pipe commonly used in ventilation systems for apartments, hotels and wherever space is limited. Where air flow allows, the system is also a cost effective alternative to sheet metal ducting.



Today's architects and builders strive to achieve living and work spaces that make the most of a building's interior while being more cost effective and energy efficient. In order to achieve this, building designers are minimising the inner ceiling space and therefore reducing the space for installers to run the building's services.

The FlatPack system's low profile design makes it ideal for these space restricted applications. The system fits together tightly and features a smooth inner surface which minimises pressure loss and therefore improves air flow. In some applications a less powerful fan may be possible.

Typical installation in a restricted space



## Quick and easy to install

The modular, slide-together design of the FlatPack system makes it easy for an installer to put in, and its PVC construction allows the duct to be cut down to size so it can fit into virtually any space. The system also features a specially designed mounting bracket which makes the system convenient to hang.



## Complies to BCA

The high quality FlatPack system is manufactured from self-extinguishing PVC, so the components are light weight, corrosion-free and hygienic. It complies with the requirements of the Building Code of Australia Volume One which references AS4254-1995.

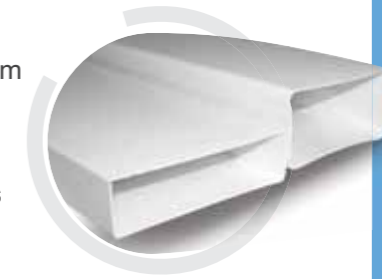


## FlatPack range

There are two sizes of FlatPack ducting available, the 204 series and the 150 series.

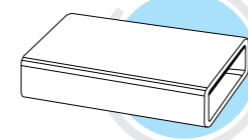
The **204 series** measures 204mm wide x 60mm high and is suitable for most air exhaust applications in apartments and hotel rooms.

The **150 series** can handle higher air volumes and measures 180mm wide x 95mm high.



### Flat Rigid Duct

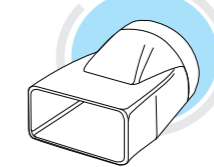
**204 series**  
2 metre long  
FP2-SDUCT-2



**150 series**  
1 metre long  
FP2-SDUCT-1-150  
2 metre long  
FP2-SDUCT-2-150

### Round/Rectangular Adapter Ø125mm

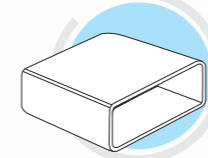
**204 series**  
Use with  
FP2-RED150-125  
for Ø150mm duct  
FP2-125R-RECT



**150 series**  
FP2-150R-RECT

### Duct Connector

**204 series**  
FP2-CON



**150 series**  
FP2-CON-150

### Circular Reducer/Expander

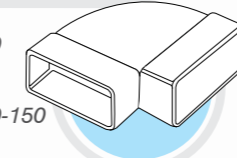
Ø150mm to Ø125mm  
FP2-RED150-125



Ø125mm to Ø100mm  
FP2-RED125-100

### 90° Horizontal Bend

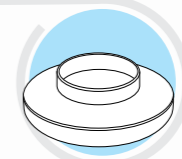
**204 series**  
FP2-HORIZBEND-90



**150 series**  
FP2-HORIZBEND-90-150

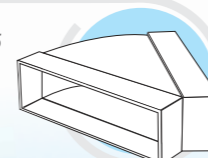
### Circular Reducer/Expander

Ø150mm to Ø100mm  
FP2-RED150-100



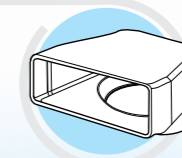
### 45° Horizontal Bend

**204 series**  
FP2-HORIZBEND-45



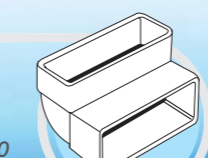
### Rotating Elbow Bend

**204 series**  
150mm  
FP2-REBEND-150



### 90° Vertical Bend

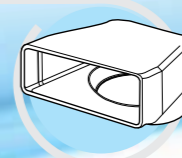
**204 series**  
FP2-VERTBEND-90



**150 series**  
FP2-VERTBEND-90-150

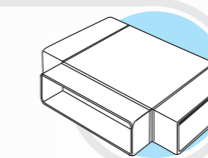
### Elbow Bend

**150 series**  
150mm  
FP2-REBEND-150-150



### Equal T Piece

**204 series**  
FP2-TPIECE



### Wall Plate

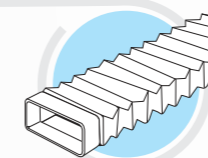
**204 series**  
FP2-WPR



**150 series**  
FP2-WPR-150

### Flexible Bend

**204 series**  
FP2-FLEXBEND



**150 series**  
FP2-FLEXBEND-150

## Versatile and easy to install

Adelaide's Commercial Air Services is saving time and money with the FlatPack low profile duct system.

Commercial Air's Project Manager Jarred Collins has been impressed with the versatility of the FlatPack system and the speed of installation.

"We provide mechanical services for a lot of apartment projects and had been using sheet metal ductwork, but it required a lot of time to tailor make the sheet metal and crimp each piece together," he said.

"In contrast FlatPack is pretty quick to install," he said.

"It's just like putting PVC downpipes together, only simpler. The components push together to give a nice tight seal, and if there's an obstacle in the way, you simply cut the piece short, put a connection in and keep on going."

He estimates the FlatPack system was about 30% quicker to install and about half the cost that sheet metal ducting would have been. "That's a considerable saving to both the contractor and client, so we will continue to use the FlatPack system where air flow requirements permit," he said.



### Flat Channel Clip



**204 series**  
FP2-CLIP



**150 series**  
FP2-CLIP-150

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# Performance data

Component	Description	Airflow L/s @ Pressure Loss, Pa						
		30	60	80	90	100	120	150
<b>204 Series</b>								
FP2-SDUCT-2	Flat Rigid Duct (Losses are per metre)	1	3	5	6	7	11	18
FP2-HORIZBEND-45	45° Horizontal Bend	2	7	12	15	19	27	42
	90° Bend using 2 x 45° bends and 50mm spacer	3	11	20	25	31	45	70
FP2-HORIZBEND-90*	90° Horizontal Bend	6	23	42	53	65	94	147
FP2-VERTBEND-90	90° Vertical Bend	4	13	23	30	37	53	83
FP2-REBEND-150	Elbow Bend 150mm	4	18	32	40	49	71	111
FP2-125R-RECT	Round to Rectangular Horizontal Adapter	3	12	21	26	32	46	72
FP2-RED150-125	Expansion - Ø125 to Ø150	1	2	4	5	6	9	14
	Contraction - Ø150 to Ø125	0	1	2	2	3	4	5
FP2-RED150-100	Expansion - Ø100 to Ø150	3	12	21	27	33	48	74
	Contraction - Ø150 to Ø100	2	9	16	20	24	35	54
FP2-TPIECE	 Supply Air - 50% air in each branch	5	22	38	49	60	87	136
	 Exhaust Air - 50% air in each branch	2	7	12	16	20	29	45
<b>150 Series</b>								
FP2-SDUCT-(#)-150	180mm x 95mm Flat Channel (Losses are per metre)	1	2	3	4	5	6	9
FP2-HORIZBEND-90-150	Horizontal Bend 90°	3	9	16	20	24	34	53
FP2-VERTBEND-90-150	Vertical Bend 90°	1	4	6	7	8	11	16
FP2-REBEND-150-150	Elbow Bend 90deg Round to Rectangular	3	11	21	26	33	47	74
FP2-150R-RECT	150mm Round to Rectangular Horizontal Adapter	1	4	6	8	10	15	23
<b>Accessories</b>								
PFL150	Plastic Louvre - Ø150 spigot complete with fly wire	10	24	45	60	75	110	175
PGL150	Plastic Gravity Louvre - Ø150 spigot	5	9	25	35	45	65	110
SJK150	Smooth Flow Backdraft Damper - Ø150	1	2	2	3	3	4	6

# 1 = 1 metre length, 2 = 2 metres length

\* Lower pressure loss at higher airflows can be achieved by using 2 x 45° bend with a 50mm spacer, see FP2-HORIZBEND-45

## Complemented by an extensive Fantech range

The problem of restricted ceiling spaces can be overcome with the Fantech FlatPack Low Profile Duct System. This system is perfectly complemented by an extensive range of Fantech fans, grilles and the Smooth Flow backdraft damper. Please refer to the Fans by Fantech catalogue, CD Product Selection Program or the Fantech website for the full list of features and performance data of these products.



[www.fantech.com.au](http://www.fantech.com.au)

For sales enquiries contact:

Specifications and design subject to change without notice.

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### Fantech Pty. Ltd.

Victoria: (+61 3) 9554 7845  
 New South Wales: (02) 8811 0400  
 South Australia: (08) 8294 0530  
 Northern Territory: (08) 8947 0447  
 Queensland: (07) 3299 9888  
 Western Australia: (08) 9209 4999  
 A.C.T.: (02) 6280 5511  
 New Zealand: (09) 444 6266  
 South East Asia: (+603) 5121 4453