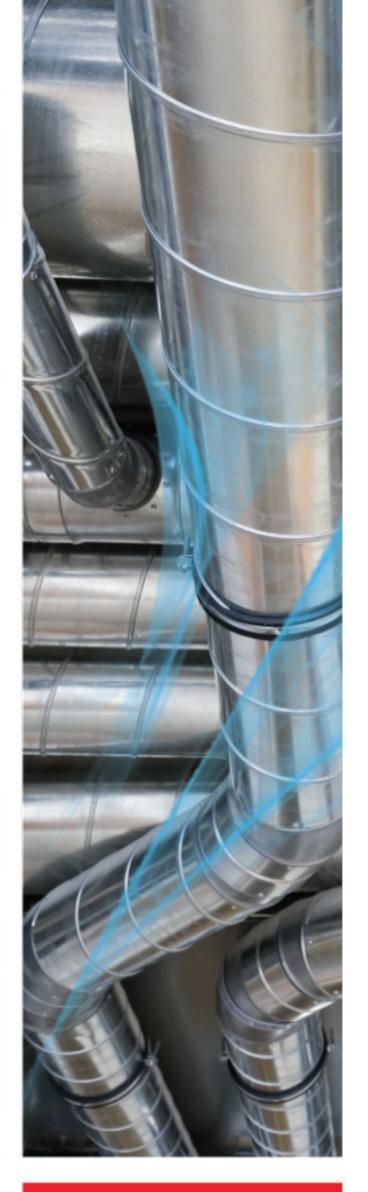


Prudential Engineering SDN. BHD.

Licensed Manufacturer

SPIRAL ROUND DUCT SYSTEMS















Spiral Round Duct Systems Spiral duct is used in a variety of

Spiral duct is used in a variety of commercial and industrial applications for ventilation and dust or fume collection.





PRUDENTIAL Spiral Duct is fabricated from steel strips helicoidically wound and seamed with a four ply lock-seam, which gives the pipe added rigidity. The seam is outside the pipe wall leaving the inside free of obstruction for an optimized air flow.

Spiral duct is used in a variety of commercial and industrial applications for ventilation and dust or fume collection. They can be made of galvanized steel, Stainless Steel, or aluminum.

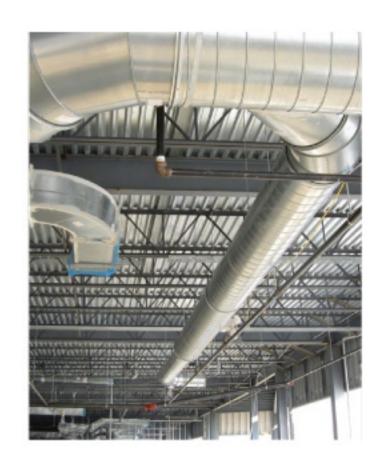
They are available in standard lengths of 2/3/4 meter or any other length on demand

Advantages of Spiral Duct

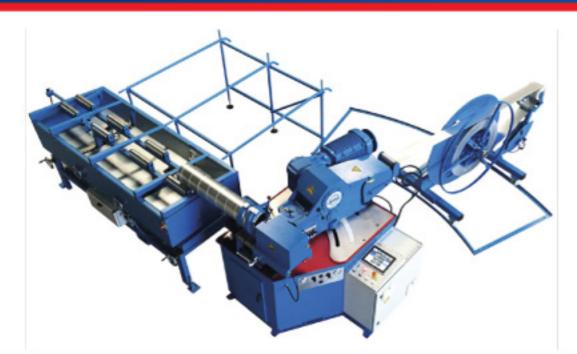
- Exposed Spiral duct is attractive and is frequently specified by architects because of its superior aesthetic appeal. Paintable Spiral duct can be finished to blend in with, or
- Stand out from, the indoor environment.
- Easier to install through and around structural framing
- Longer spans reduces installation operations and the number of connections and hangers requirement
- Low air leakage, optimal airflow characteristics, and less pressure drop allow smaller and more efficient air moving equipmentred

Specifications

PRUDENTIAL Spiral Duct will meet or exceed the gauges listed in the SMACNA 2005 / DW 144 / IS Standards



Machines



Spiro® Tubeformer 1602/3600 - Modular-Edition



Spiro® Gorelocker Combi-T

Spiral Round Duct Installation

Installation of slip joint connectors

Duct-to-joint connections are made by using a duct coupling that slips inside the duct sections.





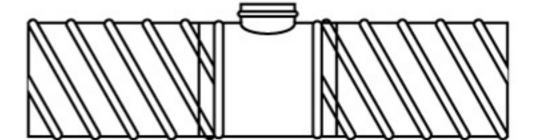


Duct-to-fitting connections

Duct-to-fitting connections are made by slipping the fitting collar into the duct.

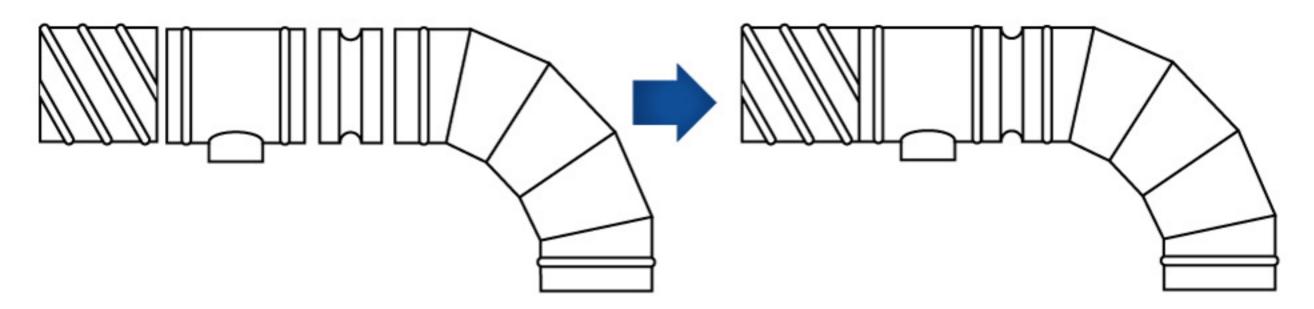






Fitting-to-fitting connections

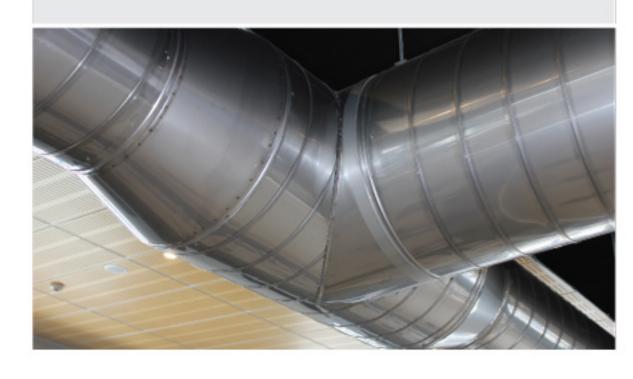
Connections can be made by using a short section of duct or by using a fitting coupling.

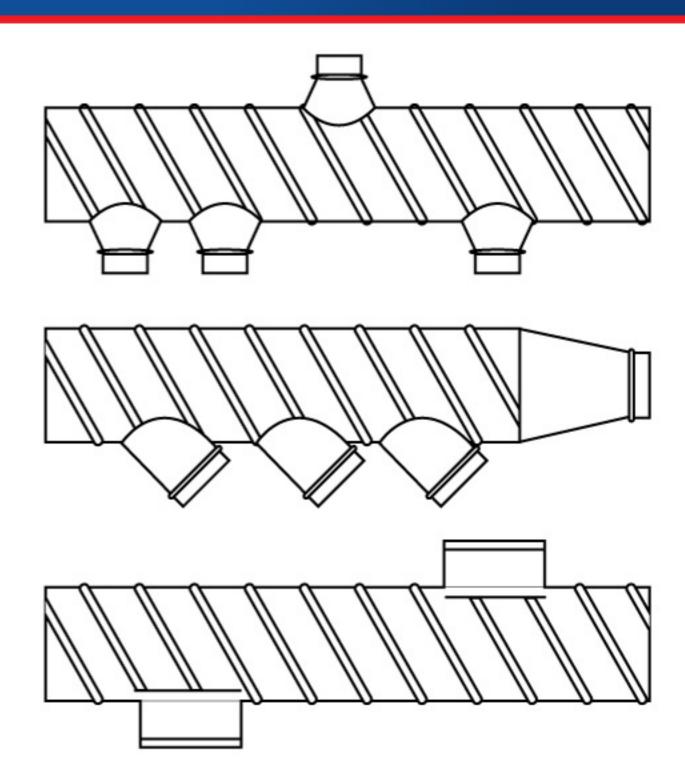


Spiral Duct Branch Take Offs

Prudential Engineering offer take off / Brach Collars of duct and fittings from our stan-dard duct and fitting components.

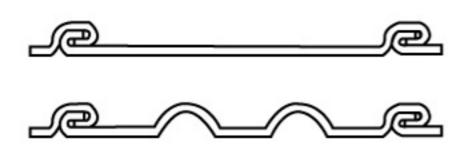
Take offs / Branch collars reduce field labor and potential sources of leakage by eliminating joints between pipe and standard fittings.





Round Duct Seams

Spiral pipe lock seam



Available Thickness

Galvanized : 0.60 to 1.00mm Stainless Steel : 0.60 to 0.80mm Aluminium : 0.80 to 1.00mm

Butt-welded seam



Available Thickness

Galvanized : 1.00 to 3.00mm Stainless Steel : 0.80 to 2.00mm Mild Steel : 1.00 to 3.00mm

Spot weld



Available Thickness

Galvanized : 0.60 to 1.20mm Stainless Steel : 0.60 to 0.80mm

Gore locked seam



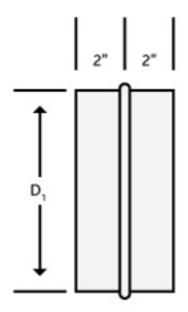
Available Thickness

Galvanized : 0.60 to 1.20mm Stainless Steel : 0.60 to 0.80mm Aluminium : 0.80 to 1.20mm

Single Wall Round Fittings

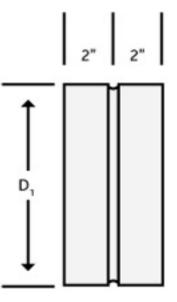
GPC

Pipe Coupling



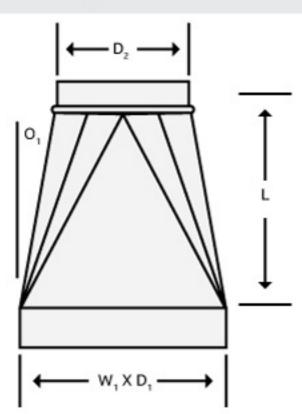
GFC

Fitting Coupling



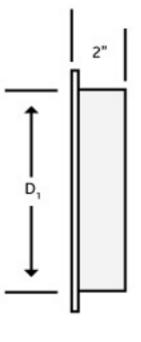
GRETR

Rectangle to Round



GEC

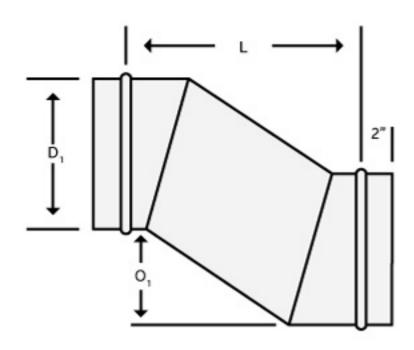
End Cap



Single Wall Round Fittings

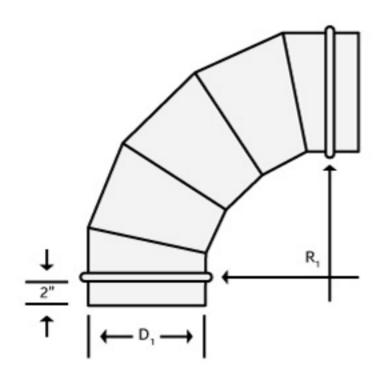
GSET

Offset



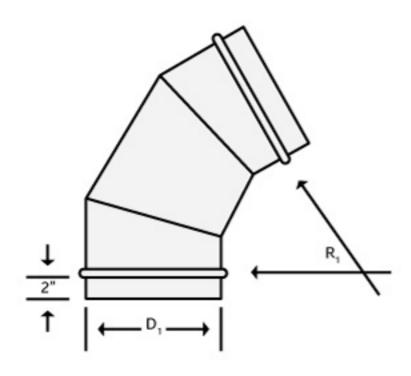
GE90

90° 4 / 5-PC Elbow



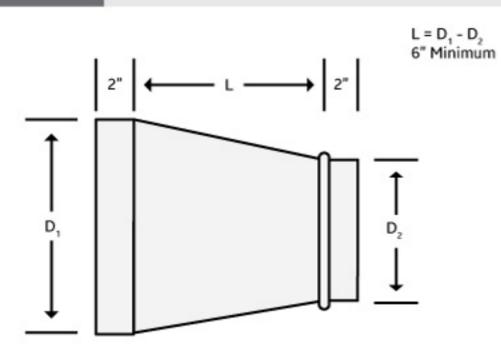
GE60

60° 3-PC Elbow



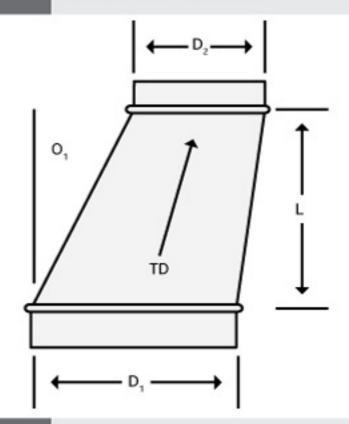
GRDC

Concentric Reducer



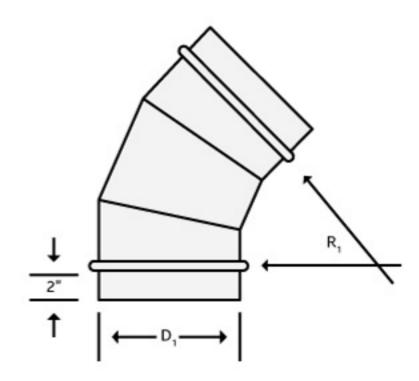
GRTR

Round to Round



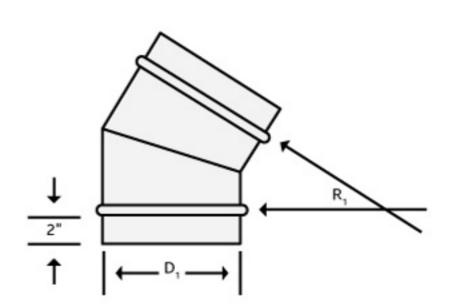
GE45

45° 3-Piece Elbow



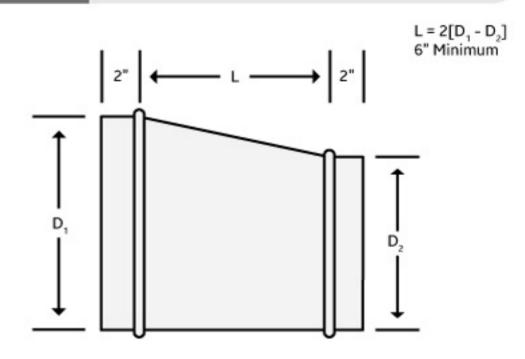
GE15/E30

15° & 30° 2-Piece Elbow



GRDE

Eccentric Reducer



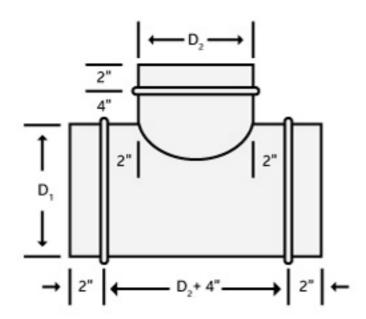
Single Wall Round Fittings

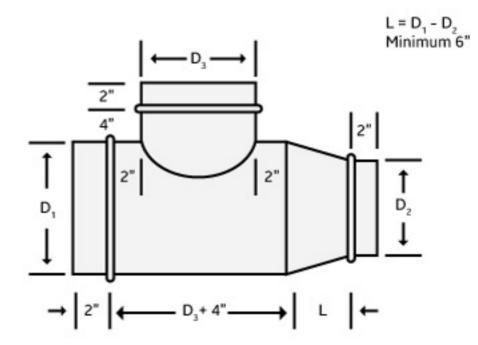
Т

Tee

RTR

Reducing Tee



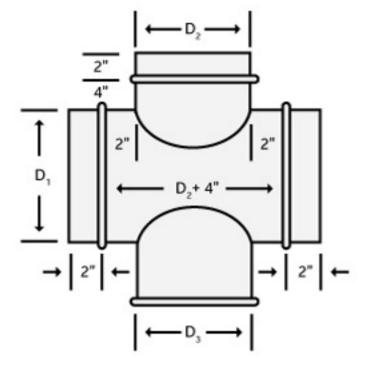


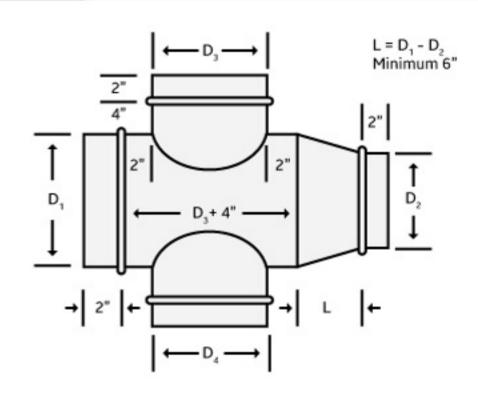
TPCTX

Tee Cross

TPRTRX

Reducing Tee Cross



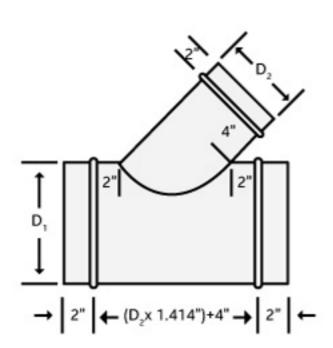


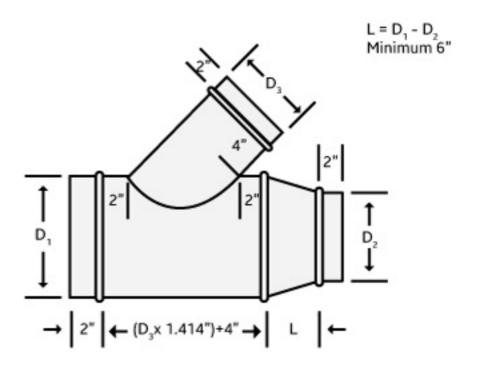
FLT

45° Lateral

FRLT

45° Reducing Lateral



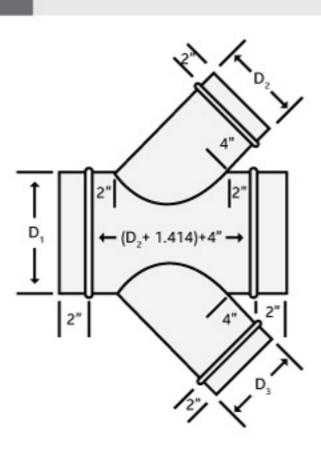


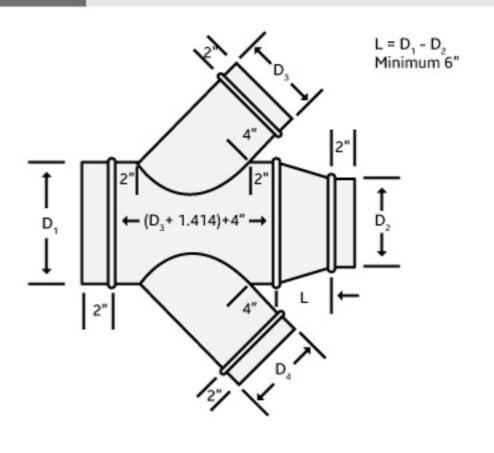
FLT

45° Lateral Cross

FRLX

45° Reducing Lateral Cross



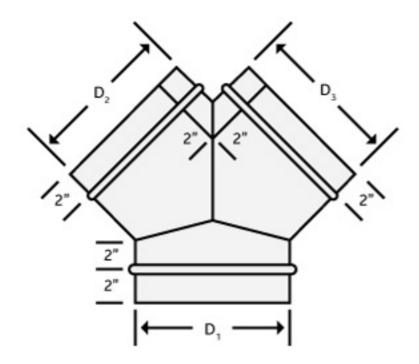


Single Wall Round Fittings

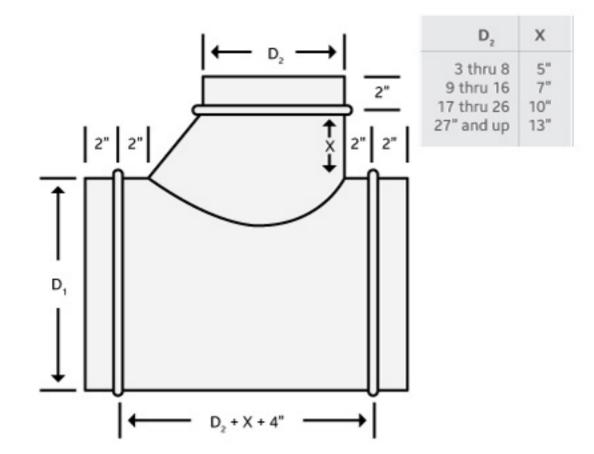
Y45

ST

Y Branch

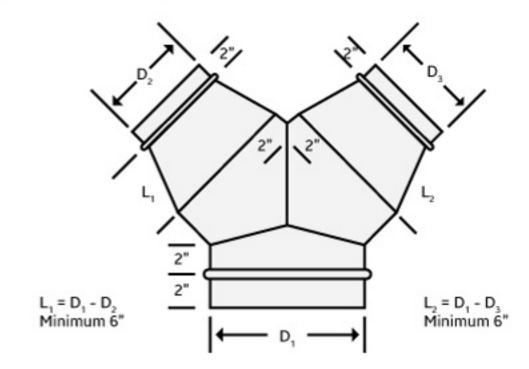


Shoe Tee



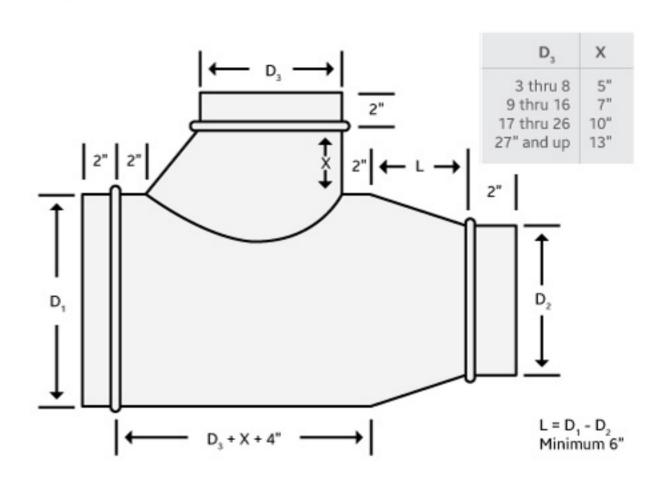
YR45

Reducing Y Branch



STR

Reducing Shoe Tee





Approximate Weight of Spiral Duct

Diameter	Kgs/ RMT (For the Galvazined Iron steel)				
	0.5mm	0.6mm	0.8mm	1.0mm	1.2mm
100	1.42	1.70			
125	1.77	2.13	2.83	3.54	
150	2.13	2.55	3.40	4.25	
180	2.55	3.06	4.08	5.10	
200	2.83	3.40	4.54	5.67	
225	3.19	3.83	5.10	6.38	
250	3.54	4.25	5.67	7.09	
300	4.25	5.10	6.80	8.50	
315	4.46	5.36	7.14	8.93	
350		5.95	7.94	9.92	
400		6.80	9.07	11.34	13.61
450		7.65	10.20	12.76	15.31
500		8.50	11.34	14.17	17.01
550		9.35	12.47	15.59	18.71
560		9.52	12.70	15.87	19.05
630			14.29	17.86	21.43
650			14.74	18.43	22.11
700			15.87	19.84	23.81
750			17.01	21.26	25.51
800			18.14	22.68	27.21
850			19.28	24.09	28.91
900			20.41	25.51	30.61
1000			22.68	28.35	34.02
1050				29.76	35.72
1100				31.18	37.42
1120				31.75	38.10
1150				32.60	39.12
1200				34.02	40.82
1250				35.43	42.52
1300				36.85	44.22
1400				39.68	47.62



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We believe in delivering Cost effective Solutions to our customers be it Contractors, Architects and End users.

Please call us and find out why our commitment to excellence, both in product and customer service, sets the standard in the industry.

Prudent Aire Sdn Bhd 925456-P

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