

Spiral Duct

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Celmec International **Leading the way in Air Control, Heating & Cooling**

At Celmec International, it is our belief that working closely with our clients aids the mutual success of both organisations and for this reason we have adopted the following mission:

"To excel in the commercial and industrial building industry by setting new standards with innovative products through leadership, first class customer service and engineering excellence."

It is with confidence that we at Celmec International offer our Spiral Duct & Fittings as part of our unique product range. Our products have been tried and proven for well over two decades.



Duct and Fitting Range

Spiral Duct Range

- Spiral metal tubing is factory machine formed with high volume economy with tolerances and quality of the highest standards.
- Round is available in a diameter range of 76mm to 1524mm and gauges from 0.5mm to 1.2mm.
- Where restricted space or aesthetic requirements are a consideration, Celmec's range of flat oval ducting is available in size ranges.

Spiral Fitting Range

- A complete range of associated fabricated fittings, machine made to match round and flat oval are available. The following list may be used as a guide to the type of fittings:
 - 90° Bends - Pops
 - 45° Bends - Hangers
 - Reducers - Branch take-offs
 - Spigot Joiners - Angle rings
 - Block Ends

Construction and Materials

Prices are based on the standard material of galvanised steel construction. Other materials are available such as stainless steel, aluminium, mild steel, etc. Prices for these are available on request. The full spiral duct and fitting range is available in:

- Plain single wall
- Double wall insulated 25mm
- Double wall insulated 50mm
- Corrugated
- Matching seam

Applications

- Celmec's range of spiral duct and fittings are used primarily for air conditioning, ventilation, heating and industrial systems, but other major areas of usage include:
 - Pipe and well liners
 - Tunnel ventilation, drainage systems and irrigation
 - Concrete voids
 - Builders rubbish chutes
 - Fume and dust removal
 - Smoke and exhaust stacks
 - Sound absorbers
 - Conveyor and material hanging systems

Spiral Duct

Equivalent Duct Sizes Round to Oval

DIMENSION 'A'					DIM 'C'	<div><div></div><div>0.6mm GAUGE</div><div></div></div>	<div><div></div><div>MAX LENGTH 3M</div><div></div></div>	<div><div></div><div>'A' NOM</div><div></div></div>	<div><div></div><div>'B' NOM</div><div></div></div>				
B Ø	76	102	127	152									
B Ø	317 152				229								
B Ø	356 165	343 190	330 210	317 229	254								
B Ø	394 171	381 203	368 222	356 241	279								
B Ø	444 178	419 210	406 205	394 254	305								
B Ø		470 222	444 248	432 267	330								
B Ø		508 229	495 254	483 279	356								
B Ø			533 267	521 292	381								
					DIMENSION 'A'								
						152	203	254	305	356	406	457	508
B Ø	406	B Ø	559 305	533 343									
B Ø	457	B Ø	635 317	610 368	584 394								
B Ø	508	B Ø	711 330	686 381	660 432	635 457							
B Ø	559	B Ø	800 343	775 406	737 444	711 483	686 508	648 533					
B Ø	610	B Ø	876 368	838 419	825 470	787 508	762 546	737 571	711 584				
B Ø	660	B Ø	952 831	927 444	902 495	876 533	838 571	813 597	787 622	749 635			
B Ø	711	B Ø	1041 394	1003 457	978 508	952 559	927 597	889 622	864 660	838 673			
B Ø	762	B Ø	1118 406	1092 470	1067 523	1029 571	1003 622	978 660	940 686	914 711			
B Ø	813	B Ø		1168 483	1143 540	1118 597	1079 648	1054 686	1029 711	1003 737			
B Ø	914	B Ø		1333 508	1308 571	1270 635	1245 686	1219 724	1181 762	1156 800			
B Ø	1016	B Ø			1460 610	1435 673	1410 724	1371 775	1346 813	1321 851			
B Ø	1118	B Ø			1626 635	1600 898	1562 762	1537 813	1511 851	1473 902			
B Ø	1219	B Ø			1778 680	1753 724	1727 787	1702 851	1664 902	1638 940			
B Ø	1321	B Ø			1943 686	1918 762	1892 825	1854 876	1829 927	1803 978			

0.6mm
GA.

0.8mm
GA.

MAX
LENGTH
3.6M

1.0 mm
GA.

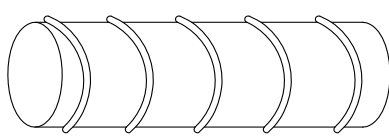
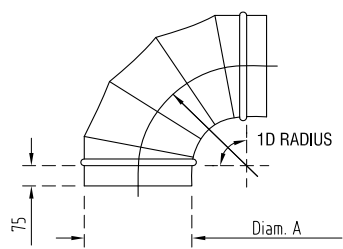
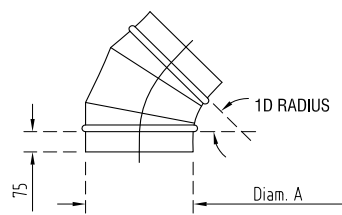
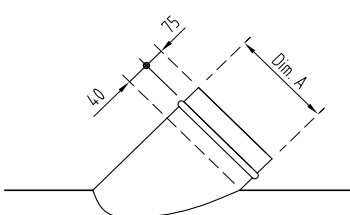
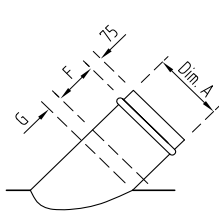
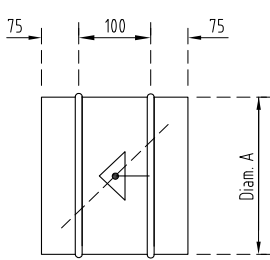
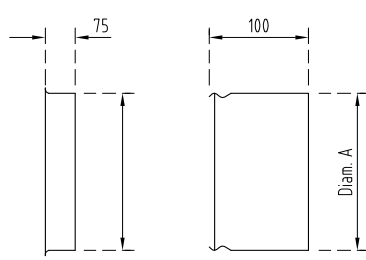
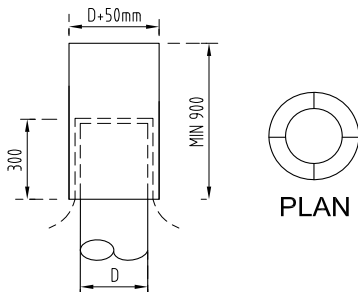
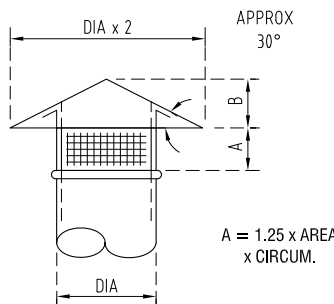
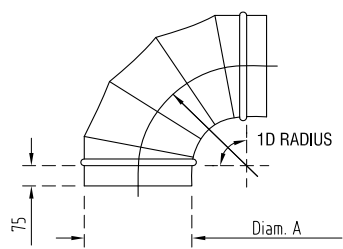
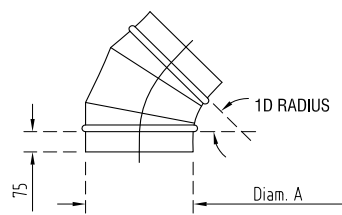
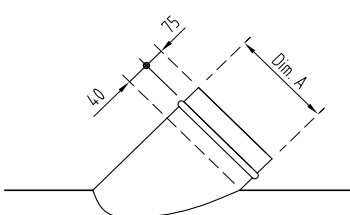
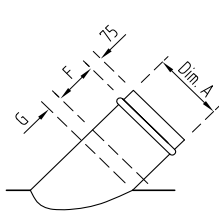
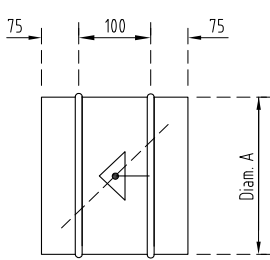
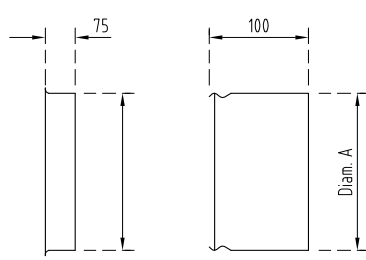
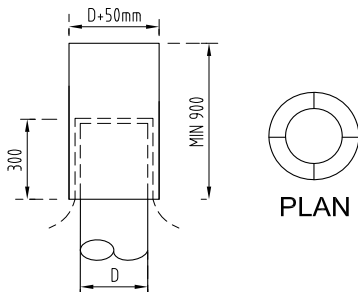
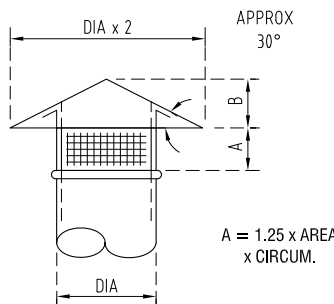
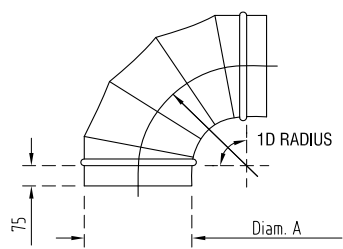
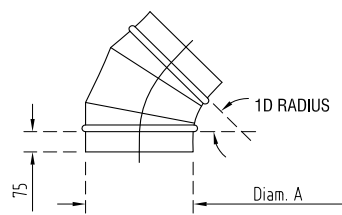
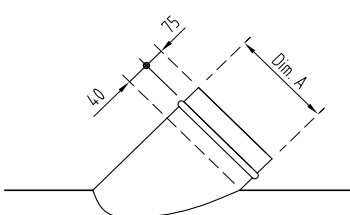
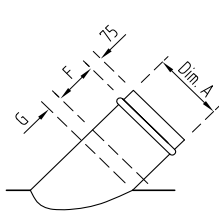
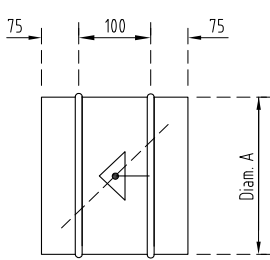
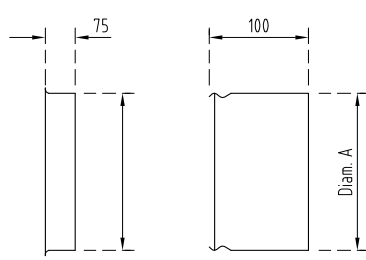
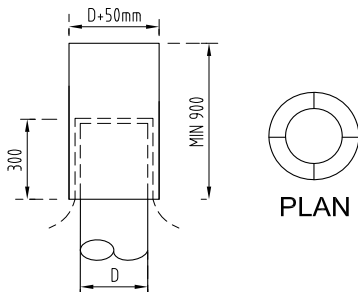
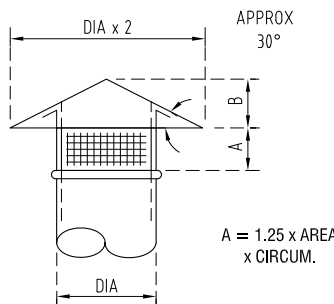
1.20 mm
GA.

MAXIMUM LENGTH AS INDICATED

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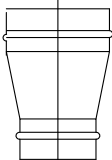
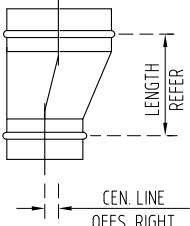
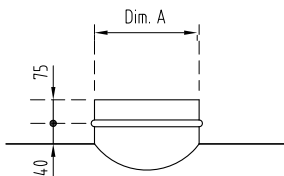
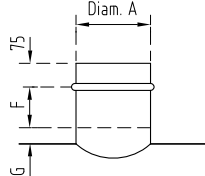
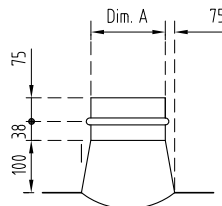
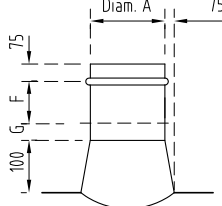
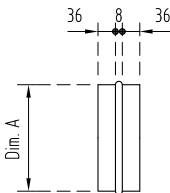
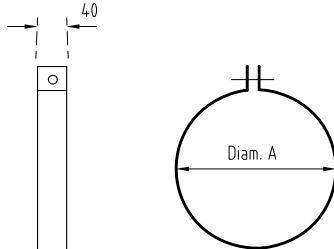
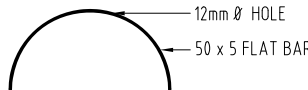
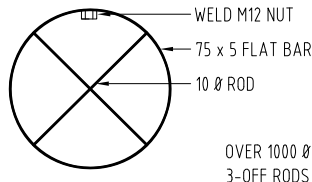
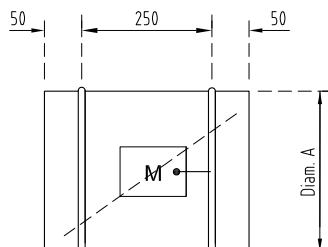
Spiral Duct

Fittings - SF

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Spiral Duct

Fittings - SF

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<div>CODE SF-T</div> <div>MOTORIZED B/FLY DAMPER</div> <div></div>	<div>ORDER/CODE EXAMPLE</div> <div><div>PLAIN SPIRAL DUCT 254 Ø</div><div>3.5 METRED LONG</div><div>TYPE DUCT</div><div>CODE SD254</div><div>GAL. 0.6</div><div>LENGTH 3.5m</div></div> <div><div>STD ROUND PLAIN FITTING</div><div>76 Ø B/FLY BRANCH</div><div>TAKE-OFF 45 DEGREES</div><div>TYPE FITTING</div><div>CODE SF76</div><div>TYPE G</div><div>DIA. 76</div></div>																															

Spiral Duct

Round Spiral Duct

Spiral duct is available in single wall, 25mm Insulated and 50mm Insulated.
Sizes are as follows:

<u>Diameter (mm)</u>	<u>Standard Gauge (mm)</u>
76	0.6
102	0.6
127	0.6
152	0.6
178	0.6
203	0.6
229	0.6
254	0.6
279	0.6
305	0.6
330	0.6
357	0.6
381	0.6
406	0.6
457	0.6
508	0.6
559	0.8
610	0.8
660	0.8
711	0.8
762	0.8
813	0.8
864	0.8
914	1.0
965	1.0
1016	1.0
1118	1.0
1219	1.0
1270	1.2
1321	1.2
1422	1.2
1524	1.2

Length of plain duct can be to any reasonable and transportable length required, although stock is available in 4 meter for most sizes up to 457 diameter. The length if insulated duct should be no longer than 3 meters.

Spiral Duct

Round Duct Connector

Spiralmate

The Spiralmate Round Duct Connector was developed to provide a simple method of connecting sections of Spiral Round Duct work at a lower overall cost. Additionally, the Spiralmate Round Duct Connector System results in the creation of an airtight joint with failsafe alignment and excellent appearance.

The Spiralmate Round Duct Connector is not recommended for applications with duct gauges heavier than 1.6mm or lighter than 0.5mm. Width of pocket is sufficient to accommodate spiral lock.

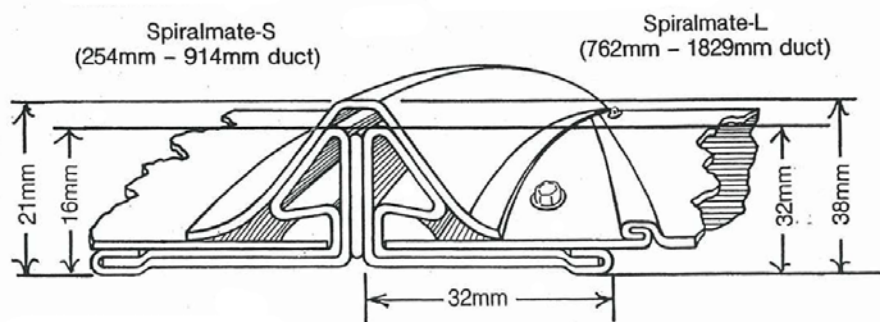
The Round Duct Connector are:

- Spiralmate-S (small: 254mm - 914mm)
- Spiralmate-L (large): 762mm - 1829mm

Composition and Materials

- Two mating Round Duct Connector Flanges roll-formed from hot dipped galvanised steel with an integral sealant.
- A Closure Ring roll-formed from hot dipped galvanised steel.

Dimensions



Applicable Standards

- Flange Steel: hot dipped galvanised steel
- Closure Ring Steel: hot dipped galvanised steel

Technical

The characteristics of a particular duct connection or joint are usually referenced to the Sheet Metal and Air Conditioning Contractors National Association (SMACNA) manuals. SMACNA encourages the use of new technology, but does not endorse proprietary products. The Spiralmate Duct Connector System has been tested by Professional Services Industries, Inc., a division of Pittsburgh Testing Laboratories, with test results as noted.

No external sealant was employed and the certified test results reveal: Virtually no leakage at up to 4.5kPa positive pressure or down to 2.5kPa negative pressure.

Spiral Duct

Installation

1. Slide a Spiralmate Duct Connector Flange onto end of each duct to be mated then seat end of duct into mastic sealant by hammering with a mallet.
2. Attach Flange onto duct section using mechanical fasteners (screws or spot welding).
3. Apply a short piece of Gasket Tape to the exposed, raw edge of duct.
4. Repeat procedure on mating duct.
5. Apply Gasket Tape to the face of one Spiralmate Duct Connector Flange.
6. Spiralmate Duct Connector Closure Ring is slipped over mated flanges and the Closure Ring is drawn tight with a bolt.

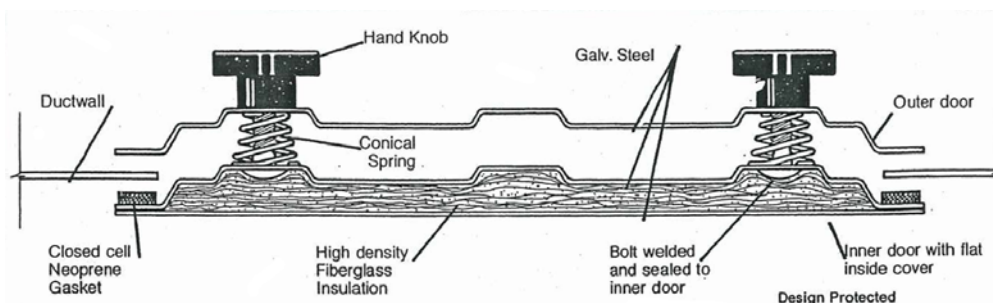
Access Door

The Ductmate Access Door:

- Completely airtight
- Fully insulated
- Smooth interior finish
- No measuring (self-sticking template provided)
- No frame to install and seal
- Rectangular shape of opening provides more effective access area
- Effortless opening and closing (no tools required)

Width	Height	No Carton	With Carton
250	150	10	12
300	200	10	14
450	300	5	20

Cross section of access door:



Materials & construction details:

Precision stemmed galvanised steel for long lasting protection.

Gasket

UL listed closed cell Neoprene Gasket permanently bonded to inside door to eliminate leakage. Conical Springs are installed over the bolts, between the inner and outer door to facilitate opening.

Template

Duct-opening cut-out Template is provided for exact size of Duct opening required.

Inside Door

Double thickness with high-density fiberglass insulation between steel. The two layers of metal are potwelded together at the rim. Inside surface of Access Door is smooth, to reduce friction.

Knobs

Knobs are easily turned by hand, no special tools required.

Spiral Duct

Installation Instructions

1. Remove backing from template and adhere to duct in desired location.



2. Cut opening around perimeter of template.



3. Install door in opening (insert at an angle).



4. Tighten knobs finger-tight (do not over tighten)





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