

MINEMASTER™

Mine Ventilation

PLASTICOAT™ Ducting
CODEMASTER™ Composite Hose
REOMASTER™ Steel Reinforcement
MINEMASTER™ Mine Ventilation
PIPEMASTER™ PVC Pipe

Plascorp Pty Ltd is one of Australia's leading privately owned Manufacturing and Distribution Companies. Our product range comprises **Plasticoat™** - Industrial ducting, **Codemaster™** Composite hose, **Reomaster™** - Steel reinforcement, **Minemaster™** - Mine ventilation ducting and **Pipemaster™** - PVC pipes and fittings.

The Company's manufacturing history goes back over fifty years with the introduction of the Plasticoat range of industrial coatings and flexible ducting in the late fifties. Our Head Office and Manufacturing Centre in Chambers Road, Altona North, Victoria commenced operations in 1961 and has since grown to accommodate the ever evolving manufactured product range and now covers over three hectares.

In 2002, as our Australian network spread, we opened a second major Distribution Centre in Perth, WA. This is now located in Bassendean on an 8000 m² site and services an extensive customer base, on the West Coast. In 2010 we continued our company expansion into Brisbane's Northgate. In addition to our National customer base we have developed an important export market for a range of our products that are now sold throughout New Zealand, South East Asia, South Africa and the Middle East.

We are Associate members of many industry groups including The Australian Chamber of Manufacturers, The Association for Hose and Accessories Distribution (NAHAD). We are also certified to ISO 9001.

All our products are manufactured to the relevant Australian Standards and tested under strict quality control procedures. We hold numerous Standards Licences and our Steel Reinforcing products have achieved ACRS accreditation (Australian Certification Authority for Reinforcing Steel).

Being a privately owned Company we pride ourselves on our ability to supply solutions for customised product or service requests - no matter how difficult or how large or small such requests are. We have a dedicated and focused team at Plascorp that we believe gives us that all important point of difference.

MINEMASTER™ INTRODUCTION

OUR MINING PRODUCTS ARE CONSTRUCTED FROM POLYETHYLENE WOVEN COATED FABRIC OR PVC COATED POLYESTER. OUR MANUFACTURING PROCESS INCORPORATES OUR PATENTED PROCESS STITCHWELD MINEFLAT. THIS INNOVATION GIVES VASTLY REDUCED AIR LOSS BY WAY OF TOP AND BOTTOM WELDED SEAMS. OUR STITCHWELD PRODUCT HAS DEMONSTRATED A LONGER LIFE SPAN BY ELIMINATING WELDTEAR AND DELAMINATION. OUR PRODUCT IS USED IN MINES ALL OVER THE WORLD. PLASCORP™ CAN SUPPLY YOU ALL YOUR VENTILATION NEEDS, TO INSTALLING A NEW VENTILATION SYSTEM FOR UNDERGROUND MINING OR INDUSTRIAL APPLICATIONS.



PLASCORP MINE VENTILATION FABRICS


All of our mining ventilation products are available in a choice of 3 materials, depending on the circumstances. Minemaster™ is our most popular standard material, offering a lighter ducting still capable of handle the rigors of underground mines. Tuffmaster™ is our premium material, offering superior tear strength and cut resistance and ideal for fans over 150kW. FRAS (Fire Retardant Anti Static) is for fiery and semi fiery applications that demand extra safety and complies with the requirements for electrical and fire resistance as tested by the Department of Industry – Resources and Energy NSW. FRAS is also approved by the South African Bureau of Standards (SABS)

All of the Mine Ventilation products in this brochure are available in all three fabrics:

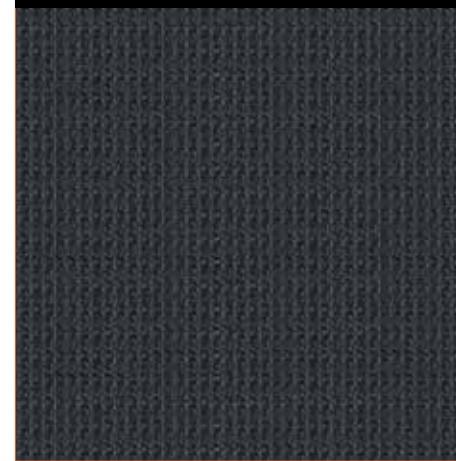
MINEMASTER™
 Coated Woven PE material
 FR available
 Colour coded based on duct size
 Yellow / Silver / Blue



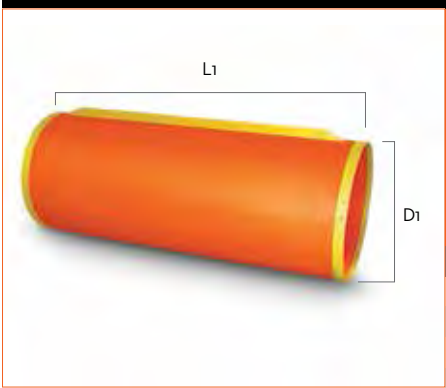
TUFFMASTER™
 Heavy Duty Coated woven PE material
 Extremely low air permeability
 Orange



FRASMASTER
 PVC Coated Polyester
 Fire Retardant with Elec resistance $<3 \times 10^8 \Omega_{\text{ohms}}$
 Black, White available upon request



MINEFLAT



Other sizes available upon request.

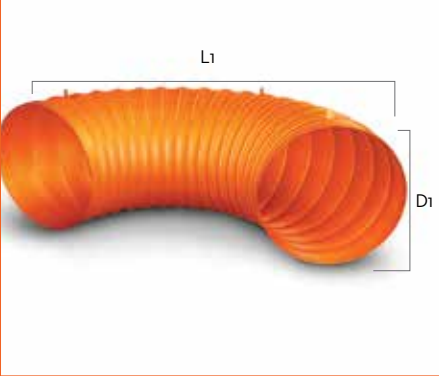
Based on field tests, Mineflat delivers more airflow for a given length of ducting due to a lower leakage coefficient because of our patented stitch-weld process. Mineflat is colour coded based on the diameter of the duct to easily identify sizing.

All sizes available in 5, 10 and 20m lengths with some also available in 50m. The joining mechanism is the skirt connecting method consisting of eyelets and a skirt enabling connection with Mineflex, hook and loop fasteners and even zippers. Discuss with your Sales Representative for your joining needs.

D1 (mm)	L1 (m)	L1 (m)	L1 (m)	L1 (m)
305	5	10	20	
355	5	10	20	
406	5	10	20	
457	5	10	20	
508	5	10	20	
572	5	10	20	
610	5	10	20	
762	5	10	20	
810	5	10	20	
910	5	10	20	50
1067	5	10	20	50
1220	5	10	20	50
1400	5	10	20	50



MINEFLEX

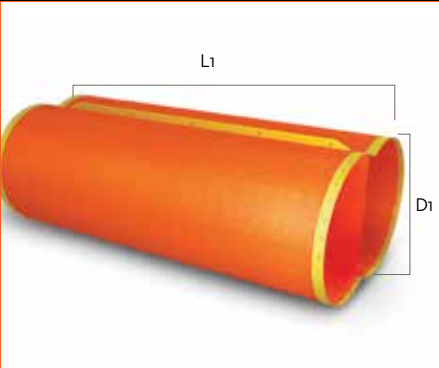


Other diameters and lengths available upon request.

Mineflex typically is constructed with Minemaster fabric. As the name “flex” indicates, this product has a wire spiral helix which provides flexibility and avoids kinking. The joining mechanism is the skirt connecting method consisting of eyelets and a skirt enabling connection with Mineflat. This product is available in all material types described on page 2. Other diameters and lengths available upon request.

D1 Nominal I.D. mm	D1 Nominal I.D. inches	L1 (m)
300	12	10
355	14	10
406	16	10
457	18	10
508	20	10
610	24	10
710	28	10
762	30	10
810	32	10
910	36	10
1067	42	10
1220	48	10
1400	56	10

TWIN DUCT



Other sizes available upon request.

Twinduct is designed to be used in areas where damage is likely to occur on tight areas of underground mining, especially where mine tunnel heights are limited.

Twinduct D1 (mm)	Mineflat Equivalent (mm)	L1 (m)	L1 (m)	L1 (m)	Headspace saving with Twinduct (mm)
455	610	5	10	20	205
570	760	5	10	20	300
680	915	5	10	20	335
762/795	1067	5	10	20	405
910	1220	5	10	20	410
1045	1400	5	10	20	450



TWINDUCT TRANSITION / TROUSER LEG



The Twinduct Transition and Twinduct Trouser Legs (shown) convert a single Mineflat duct into a Twinduct without losing airflow volume. Easily connects to existing Mineflat / Mineflex and Twinduct. Selection is based on headspace and ventilation line requirements.

Twinduct Equivalent (mm)	Tubular Diameter (mm)
455	610 (24")
570	760 (30")
680	915 (36")
762/795	1067 (42")
910	1220 (48")
1045	1400 (56")

TWIN DUCT REDUCER

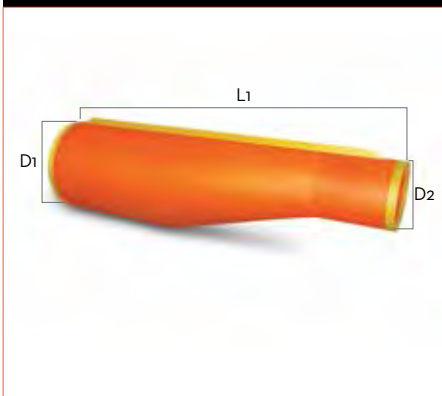


The Twinduct Reducer changes the diameter of the twinduct from a larger to smaller size.

D1 (mm)	D2 (mm)	L1 (m)
910	762	5
1045	910	5

Other sizes available upon request.

REDUCER



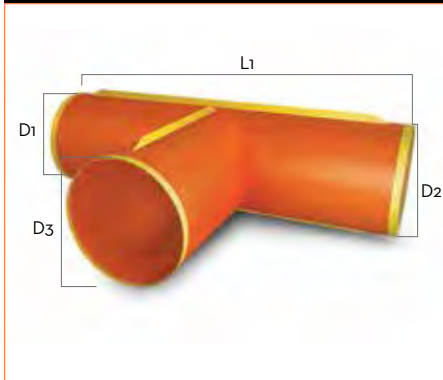
The Reducer changes the diameter of the single duct from a larger to smaller size.

D1 (mm)	D2 (mm)	L1 (m)
610	400	5
910	762	5
1067	762	5
1067	910	5
1220	1067	5
1300	1067	5
1400	1067	5
1400	1220	5

Other sizes available on request
Twin duct reducers available on request



T PIECE

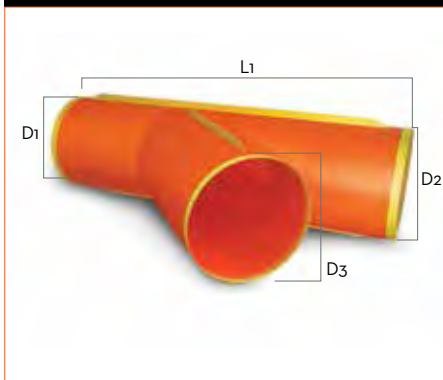


T Reducers available on request

Allows for changes in direction with the mine tunnel.

D1 (mm)	D2 (mm)	D3 (mm)	L1 (m)
305	305	305	5
355	355	355	5
406	406	406	5
457	457	457	5
508	508	508	5
572	572	572	5
610	610	610	5
762	762	762	5
810	810	810	5
910	910	910	5
1067	1067	1067	5
1220	1220	1220	5
1400	1400	1400	5

DUAL FIN BRANCH PIECE



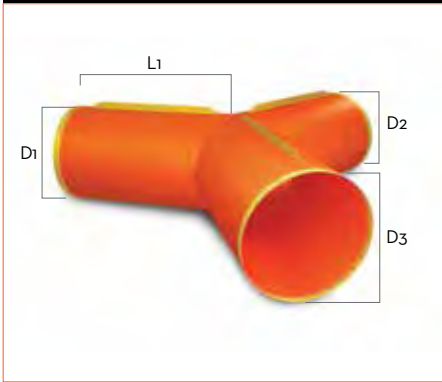
Branch Reducers and Twinduct available on request.

Used when a side tunnel diverts off the main tunnel. The branch is at 45° to the main vent. The double hanging eyelets or 'DUAL FIN'S', allow the branch piece to be installed left or right, simply by inverting it.

D1 (mm)	D2 (mm)	D3 (mm)	L1 (m)
305	305	305	5
355	355	355	5
406	406	406	5
457	457	457	5
508	508	508	5
572	572	572	5
610	610	610	5
762	762	762	5
810	810	810	5
910	910	910	5
1067	1067	1067	5
1220	1220	1220	5
1400	1400	1400	5



Y PIECE

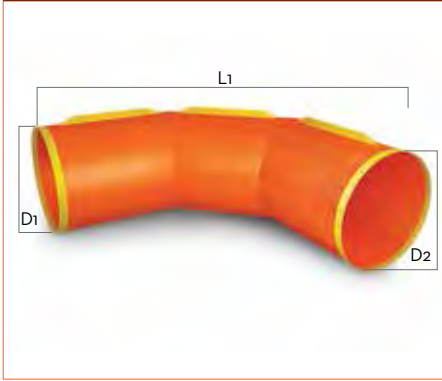


Y Pieces split the vent into 2 streams and are made with a 120°.

D1 (mm)	D2 (mm)	D3 (mm)	L1 (m)
305	305	305	2.5
355	355	355	2.5
406	406	406	2.5
457	457	457	2.5
508	508	508	2.5
572	572	572	2.5
610	610	610	2.5
762	762	762	2.5
810	810	810	2.5
910	910	910	2.5
1067	1067	1067	2.5
1220	1220	1220	2.5
1400	1400	1400	2.5

Y Reducers available on request

90° LONG RADIUS LOBSTER BACK



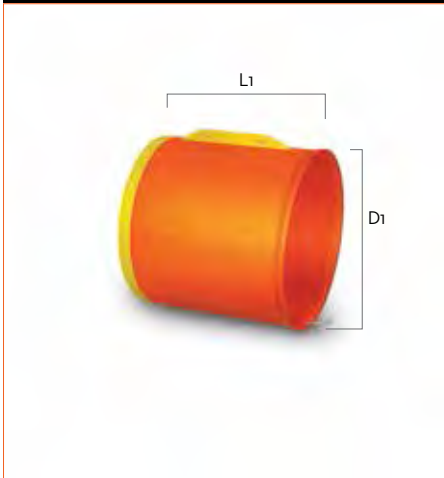
Long radius bend or Lobster Back allows a change in 90° direction. Lobster backs are available in 3 pieces (as shown) or 5 pieces. It has double hanging eyelets or 'DUAL FINS', which allow the part to be installed with a left or right turn. Mineflex can also be used to cater for any angle direction change.

D1 (mm)	D2 (mm)	L1 (m)
305	305	5
355	355	5
406	406	5
457	457	5
508	508	5
572	572	5
610	610	5
762	762	5
810	810	5
910	910	5
1067	1067	5
1220	1220	5
1400	1400	5

Customs lengths available on request.
Lobster backs are available in 3 (shown) pieces.



FAN ADAPTOR



Fan adaptors attach to the fan mandrel/manifold and ducting. It is recommended to install these made from our Tuffmaster material to handle the shock force from the duct inflating rapidly.

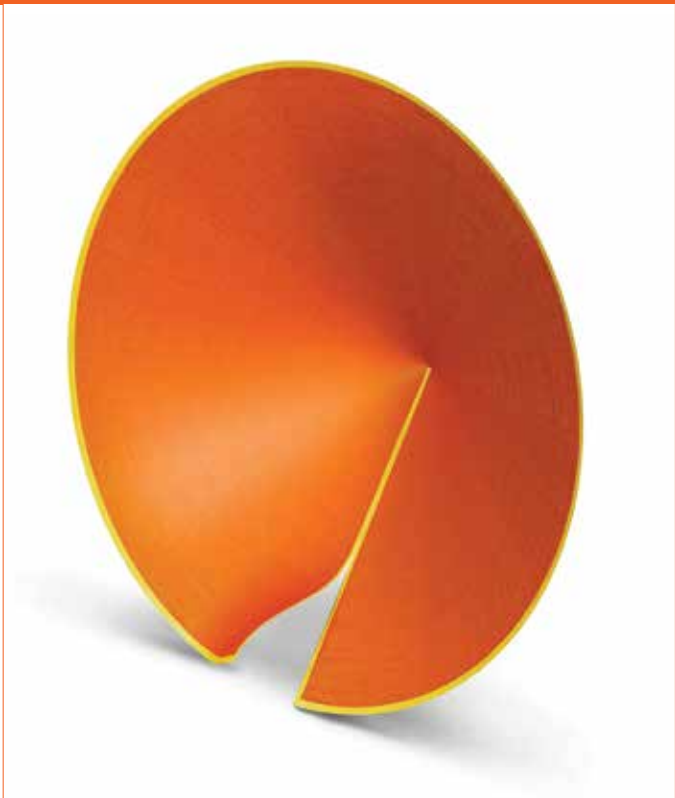
D1 (mm)	L1 (mm)
610	500
710	582
762	625
810	664
910	746
1067	875
1220	1000
1400	1148

NIXON FLAPS **PARACHUTES**

Nixon flaps and Parachutes block off access to closed sections of the tunnel/mine. Specify dimensions when ordering.



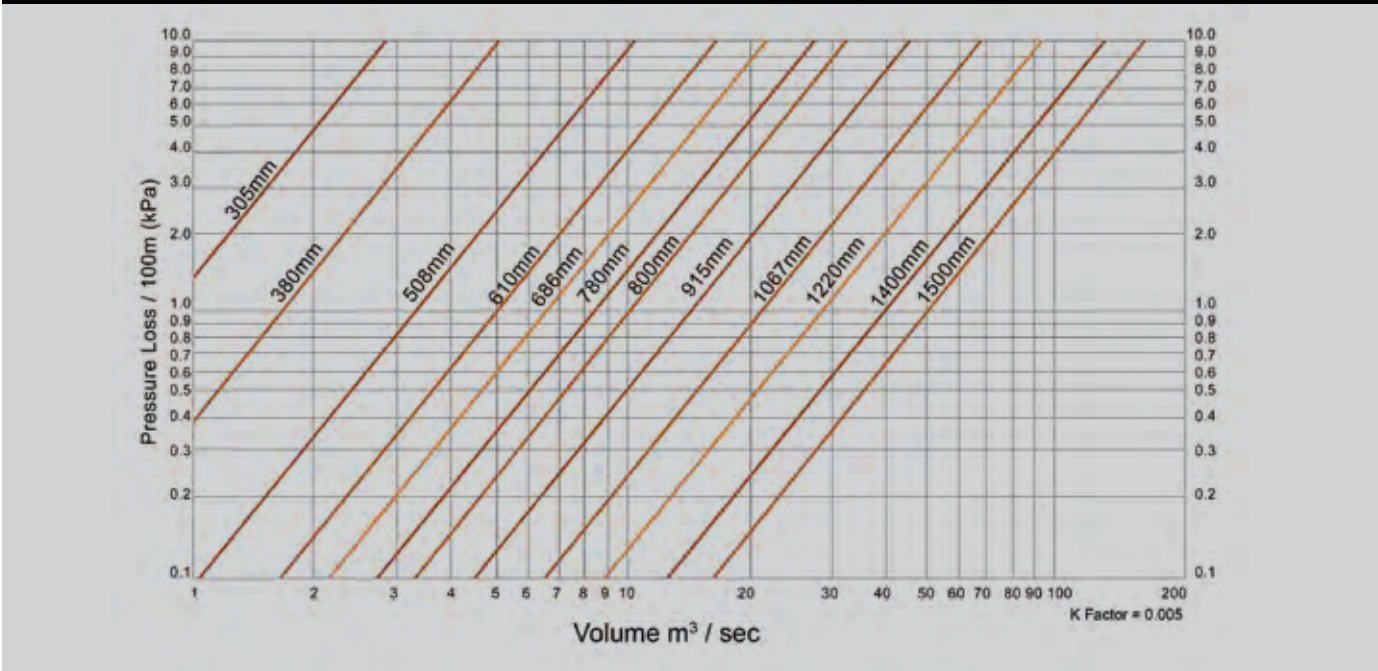
Supplied with pulleys and ropes.



Available with zippers or without.



MINEMASTER VENTILATION DUCTING "FLOW RESISTANCE" CHART AVERAGE THEORETICAL OPERATION



JOINING MECHANISM

The joining mechanism consists of eyelets and a skirt sewn into both ends of the duct as detailed below. Skirt acts as an internal seal to minimise air loss through the joint.



HANGING CLIPS



Used to hang Mineflat/Mineflex to the knocker line.





A series of horizontal dashed orange lines spanning the width of the page, intended for taking notes.



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