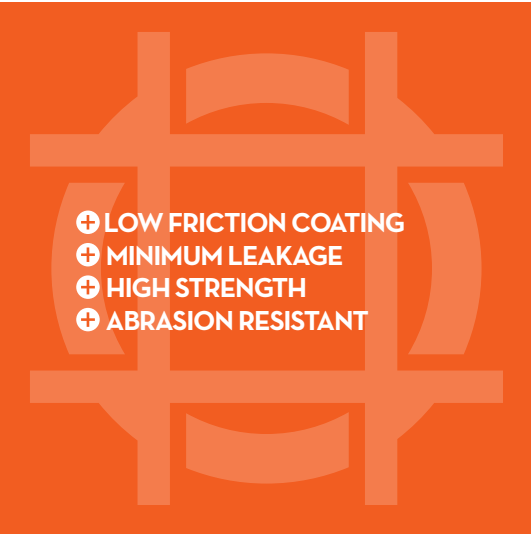


- 
- ⊕ LOW FRICTION COATING
 - ⊕ MINIMUM LEAKAGE
 - ⊕ HIGH STRENGTH
 - ⊕ ABRASION RESISTANT

MINE VENTILATION



PLASCORP[®]

TAILORED **SOLUTIONS+**



WHY PLASCORP?

For 60+ years we've manufactured and supplied mine ventilation, ducting, PVC pipes plus composite hoses and steel reinforcing to various industries in Australia. But our biggest plus, is our ability to customise and tailor solutions to solve our customers' challenges.

OUR RANGE

Mine Ventilation Fabric	4
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Plascorp is one of Australia's leading privately owned manufacturing and distribution companies. We have invested significantly in quality European equipment to maximise manufacturing efficiency and enable value-add products to be produced for customers, expanding our operations in Melbourne, Brisbane and Perth.

The company draws from years of experience in the mining, construction and civil infrastructure industries to produce custom or 'made to order' designs and product solutions that best meet our customer's specification requirements. Our superior service support includes working closely with our customers from planning stage through to a project's completion. We have a network of dedicated and client-focused sales teams and branches across all major cities.

PRODUCTS YOU CAN TRUST

Our products are manufactured to the relevant Australian Standards and tested under strict quality control procedures. We hold numerous standards licences. Our PVC pipe products are BEP (Best Environmental Practice) certified.

Our mine ventilation ducting has been used around the world in numerous underground projects. Plascorp manufacturing is approved and certified in accordance with ISO 9001.

Local manufacturing enables us to have control over our production capabilities ensuring a consistent product to meet our clients' needs. It also provides the flexibility to customise products and to ensure we can meet the most challenging deadlines for each project.



MANUFACTURE & SUPPLY



SHORTER LEAD TIMES





TAILOR-MADE VENTILATION

When it comes to mine ventilation ducting and tunnel ventilation, it is imperative that the underground ventilation system is of the highest quality to guarantee maximum effectiveness and safety.

MINING AND TUNNEL VENTILATION PRODUCT BENEFITS

Plascorp mining products are made from polyethylene woven coated fabric or polyester coated PVC. Our manufacturing incorporates our patented stitchweld process. This innovation gives vastly reduced air loss by way of top and bottom welded seams and has demonstrated a longer lifespan compared to others in the market.

Plascorp tunnel ventilation ducting is made of PVC coating reinforced with a polyester yarn that provides a high tear resistance and lower energy consumption. The ducting is lightweight, durable and extremely flexible and is used for tunnel ventilation during the construction stage and/or on a permanent basis. Available in various tensile strength grades plus optional fire retardant and antistatic properties to suit performance ranges.

KEY BENEFITS INCLUDE:

- Low friction coating
- Minimal leakage through seam
- More efficient and economical - less electricity required
- Durable high-strength material
- Good puncture and abrasion resistance
- Made to handle on rock walls, faces and ceilings



PLASCORP MINE VENTILATION FABRICS



MINEMASTER®

- Coated woven PE material
- FR available
- Colour coded based on duct size
- Yellow, silver or blue

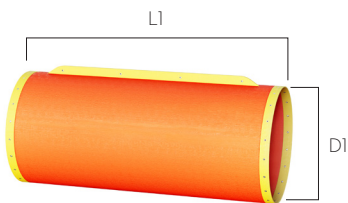
TUFFMASTER

- Heavy duty coated woven PE material
- Extremely low air permeability
- Orange

FRASMASTER

- PVC coated polyester
- Fire retardant with electrical resistance <math><3 \times 10^8 \text{ ohms}</math>

MINEFLAT



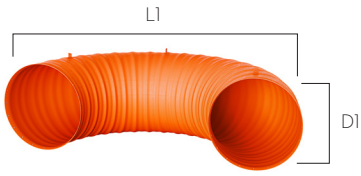
Based on field tests, Mineflat delivers more airflow for a given length of ducting due to a lower leakage coefficient because of our patented stitch-weld process. Mineflat is colour coded based on the diameter of the duct to easily identify sizing.

All sizes available in 5, 10 and 20 m lengths with some also available in 50 m. 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.

Additional sizes and joining systems are available upon request.

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



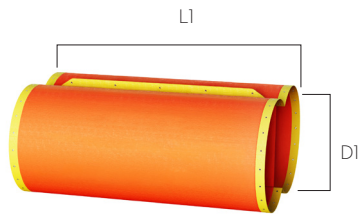
Mineflex typically is constructed with Minemaster fabric. As the name “flex” indicates, this product has a wire spiral helix which provides flexibility and avoids kinking.

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 4.

Additional sizes and joining systems are 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

TWINDUCT



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.

Additional sizes are available upon request.

Twinduct D1 (mm)	Mineflat Equivalent (mm)	L1 (m)	L1 (m)	L1 (m)	Headspace Saving L1 (m) 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

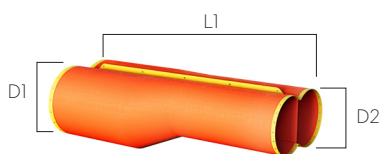


The Twinduct Transition and Twinduct Trouser Legs (shown) convert a single Mineflat duct into a Twinduct without losing airflow volume. Easily connects to existing Mineflat or Mineflex and Twinduct. Selection is based on headspace and ventilation line requirements.

Additional sizes are available upon request.

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

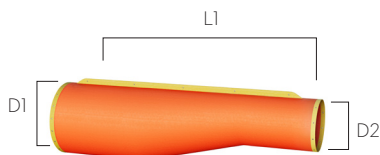


The Twinduct Reducer changes the diameter of the twinduct from a larger to smaller size.

Additional sizes are available upon request.

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

REDUCER

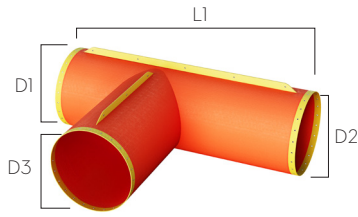


The Reducer changes the diameter of the single duct from a larger to smaller size.

Additional sizes are available upon request.

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

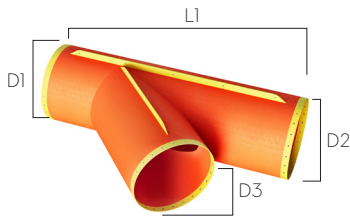
T PIECE



The T-piece allows for changes in direction within the mine tunnel.
Additional sizes are available upon request.

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

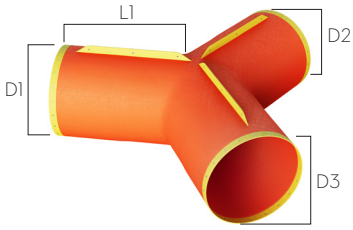


Used when a side tunnel diverts off the main tunnel. The branch is at 45° to the main vent.
The double hanging eyelets or 'Dual Fins', allow the branch piece to be installed left or right, simply by inverting it.

Additional sizes are available upon request.

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

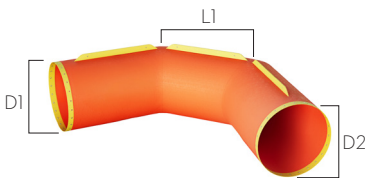
Y PIECE



Y Pieces split the vent into two streams and are made with a 120° angle.
Additional sizes are available upon request.

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

90° LONG RADIUS LOBSTER BACK



Long Radius Bend or Lobster Back allows a change in 90° direction.

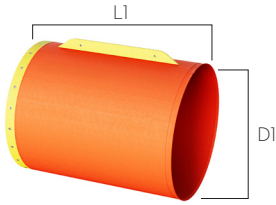
Lobster backs are available in 3 pieces (as shown) or 5 pieces. It has double hanging eyelets or 'Dual Fins', which allow the part to be installed with a left or right turn.

Mineflex can also be used to cater for any angle direction change.

Additional sizes are available upon request.

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

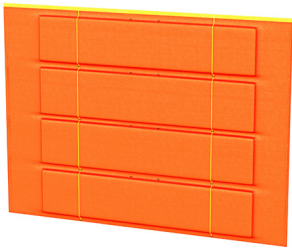
FAN ADAPTOR



Fan Adaptors attach to the fan mandrel or manifold and ducting. It is recommended to install these made from our Tuffmaster material to handle the shock force from the duct inflating rapidly. Additional sizes are available upon request.

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

NIXON FLAPS



Nixon Flaps block off access to closed sections of the tunnel or mine. Specify dimensions when ordering. Supplied with pulleys and ropes.

Typically supplied without steel bars .

PARACHUTES



Parachutes block access to closed sections of the tunnel or mine. Specify dimensions when ordering. Supplied with pulleys and ropes.

Available with zippers or without.

JOINING MECHANISM



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

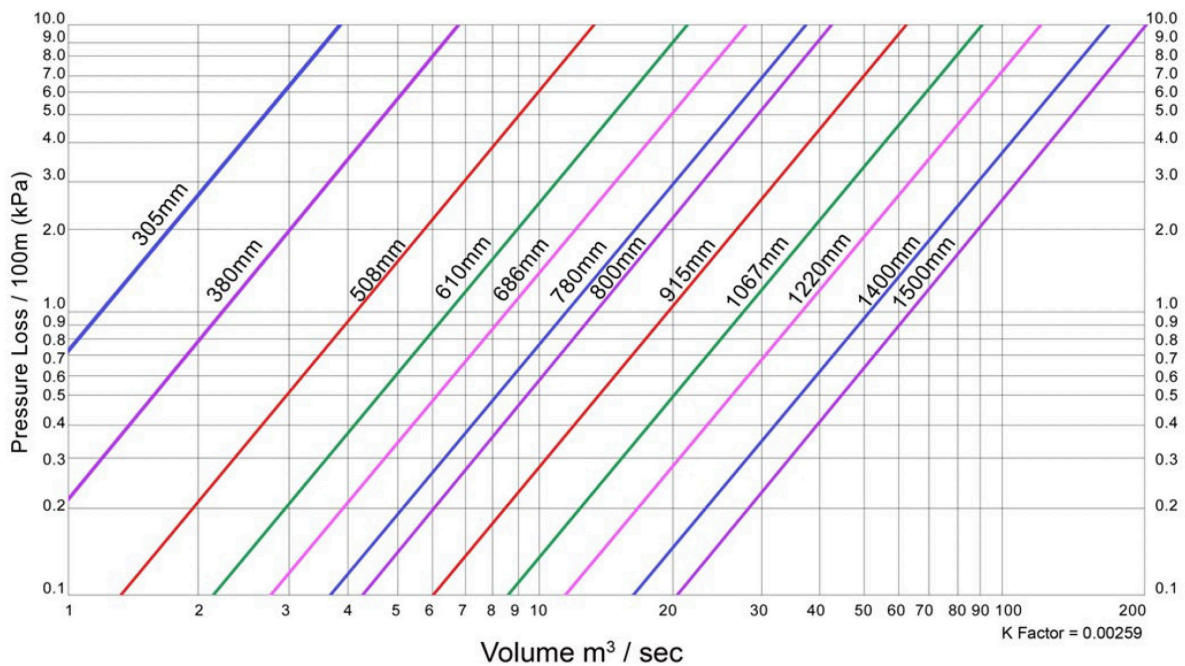
Additional sizes are available upon request.

CARABINERS



Carabiners are used to hang Mineflat or Mineflex to the knocker line. Made from durable materials, they ensure reliability in harsh conditions.

VENTILATION FLOW RESISTANCE CHART



AVERAGE THEORETICAL OPERATION

MINE VENTILATION: PE - WHY WE USE PE

POLYETHYLENE (PE)

- High strength due to coated woven scrim
- Construction and coating allows for effective installation of rip-stop tapes
- Lightweight making it easy to install
- No toxic emissions when burning
- Resistant to most chemicals, acids and alkalis
- More environmentally friendly with quick degradable cycle (± 24-36 months)
- Up to 30% more cost effective than PVC alternative
- More cost effective to install as it is less labour intensive

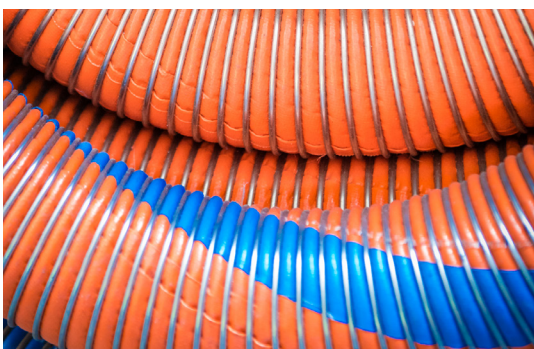
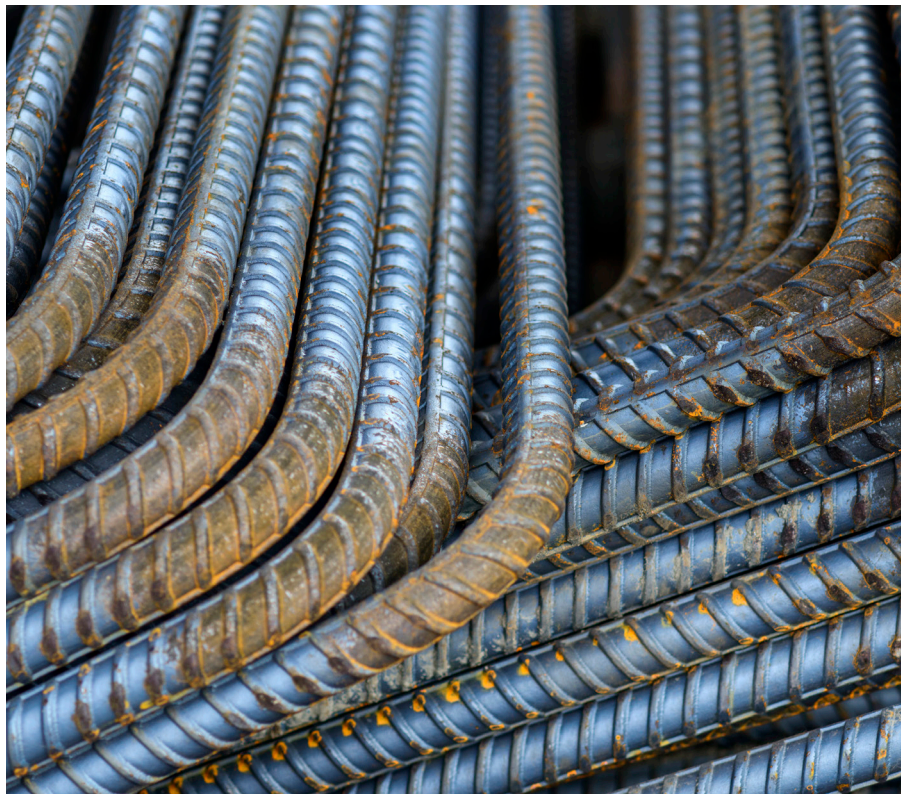
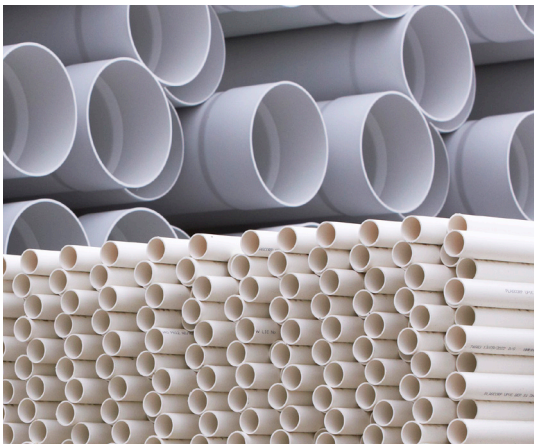
PVC

- Laminated scrim - less durable, may delaminate
- Rip-stop capability can be compromised due to delamination
- Approx double the weight of PE - harder to install
- Highly toxic when burning
- Can react to some elements due to chlorides such as limestone
- Not biodegradable
- More expensive due to additional weight
- More expensive to install as it is more labour intensive

- + PVC PIPES
- + STEEL REO
- + COMPOSITE HOSES
- + VENTILATION
- + DUCTING

For 60+ years we've manufactured and supplied PVC pipes plus composite hoses, steel reo, ventilation and ducting to various industries in Australia. But our biggest plus, is our ability to customise and tailor solutions to solve our customers' challenges.

- Range of sizes and custom colours and lengths available
- Fabricating steel to tight tolerances
- Custom slotting and threading
- Ability to fully customise to meet needs



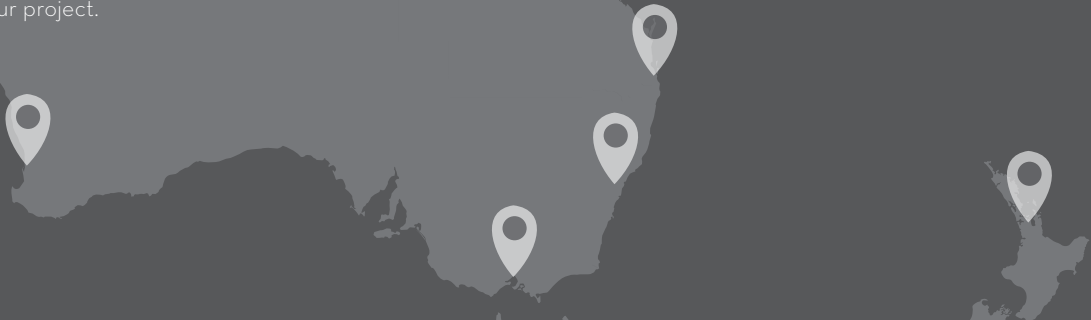


For 60+ years we've manufactured and supplied PVC pipes plus composite hoses, ventilation and ducting to various industries. But our biggest plus, is our ability to customise and tailor solutions to solve our customers' challenges.

We started manufacturing PVC Pipes and flexible ducting in the late 1950's. Our current head office and manufacturing centre in Melbourne, commenced operations in 1961 and has since grown to over three hectares. It accommodates our ever-evolving manufacturing and product tailoring capabilities.

In addition to our Australian customer base, we now supply a range of products in New Zealand, South East Asia, South Africa and the Middle East.

Our parent company, Geofabrics has branches throughout Australia, New Zealand, Papua New Guinea and the Pacific so can deliver product where you need it, when you need it, while providing local expertise to support your project.



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