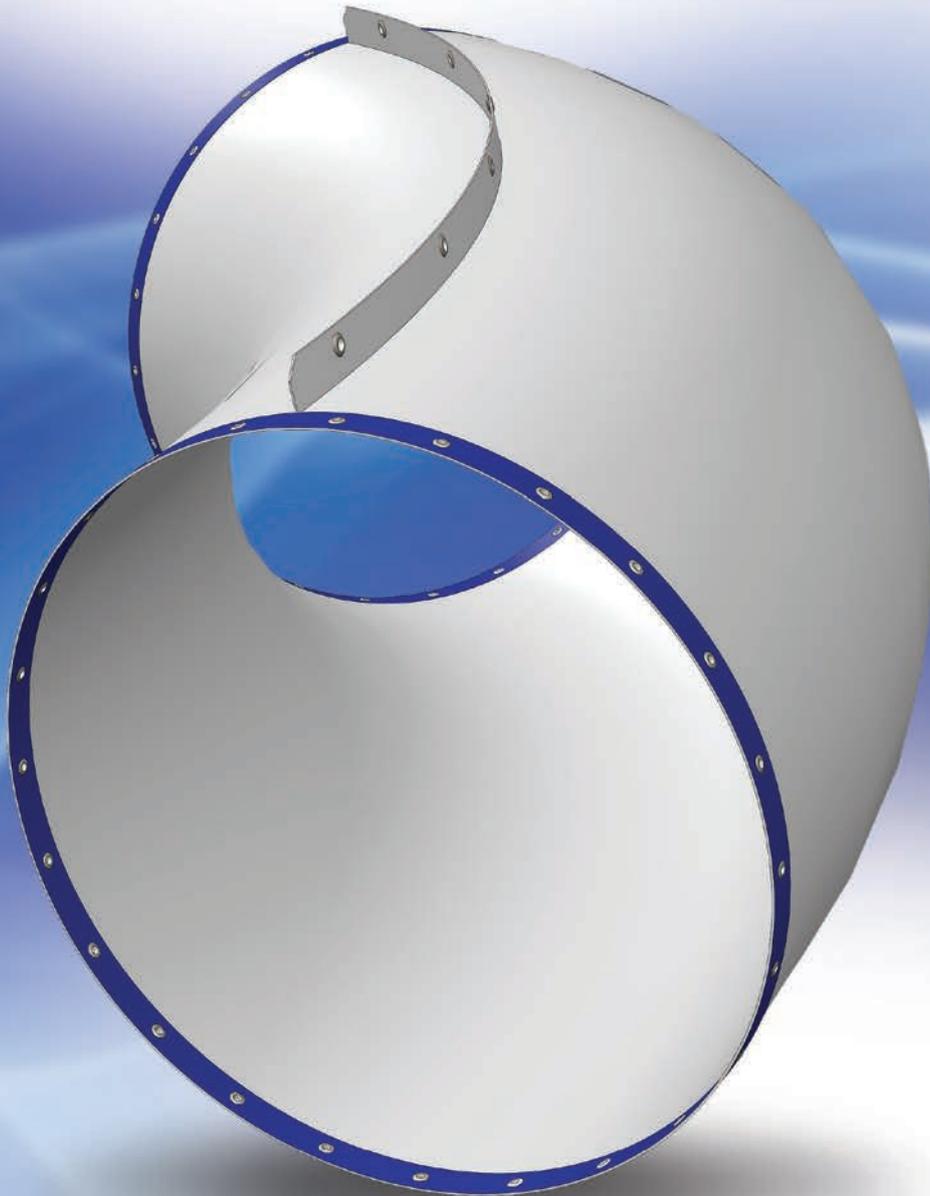




**TYPHOON**  
DUCTING & ACCESSORIES



# VENT DUCT SPECIFICATION

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

Typhoon 300 is a low leakage welded polyethylene duct specifically developed for the mining industry. Its lightweight, high strength and low friction properties make it ideal for use in harsh conditions. Joined via large diameter steel eyelets and suspended with a full length six layer hanging fin. The Typhoon 300 comes fitted with carabiners for easy installation.

### Duct Characteristics

Name	Typhoon Silver 300 Mk2
Colour	Silver
Weave	Custom Hybrid Denier
Base Material	Polyethylene
Suspension Method	Fully Welded Lifting Fin
Joining System	Eyelet Join

### Testing Results

#### AS2001.2.13 – 87 –Mass Per Unit Area

- Typhoon Silver 300 Mk2 - 320g/m<sup>2</sup>

#### AS2001.2.3.1-01 – Strip Method

Typhoon Silver 300 / Silver Duct

Maximum Load

- Warp - 2200N
- Weft - 2000N

Elongation at Maximum Load

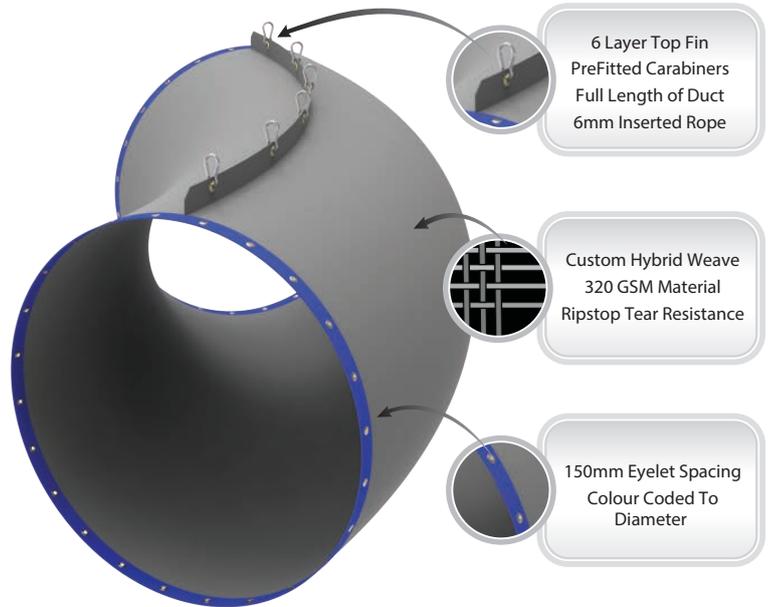
- Warp - 21.5%
- Weft - 20.0%

#### AS2001.2.10-1986 – Wing Rip Method

Typhoon Silver 300 / Silver Duct

Maximum Load

- Warp - 699N
- Weft - 745N



## VENT BAG SPECIFICATION

Fin Configuration	
#Layers Of Material	6 Layers - Including Eyelet Insertion Area
Minimum Distance From Top Of Eyelet To Duct Opening	40mm - Eyelet Inserted Directly Below Rope
Distance From Top Of Eyelet To Top Of Duct	15mm - Eyelet Inserted Directly Below Rope
Rope Type & Thickness	3 Strand Poly Rope - 6mm (400 Kilogram Breaking Strain)
Eyelet Distance From End Of Duct	200-225mm
Eyelet Spacing	500mm
Spigot Configuration	
Colour	As Per Packaging Bags For Easy Identification
Layers Of Material	4 Layers - Including Eyelet Insertion Area
Eyelet Spacing	150mm
Eyelet Location In Relation To Top Of Bag	Top Centre - Directly In Line With The Top Fin
Overlap Distance For Spigot	60mm
Rope Type And Thickness	3 Strand Poly Rope - 6mm (400 Kilogram Breaking Strain)
Spigot Length	
Length Of Spigot	1400mm Dia = 1m Long
	1220mm Dia = 1m Long
	1067mm Dia And Below = 750mm Long
Spigot Material Thickness	Same As Main Body 450gsm +/- 3%
Packaging Bags	
UV Resistant	Yes
Colour Coded 1400mm Bag	Yellow
Colour Coded 1220mm Bag	Blue
Colour Coded 1067mm Bag	Green
Colour Coded 305mm To 915mm Bag	Orange

Typhoon 500 is a low leakage welded high end duct for heavy duty applications. Utilizing a custom weave and denier it is truly a duct which can withstand the heavy knocks. Combined with exceptional tear characteristics Typhoon 500 is built to last. The Typhoon 500 comes fitted with carabiners for easy installation.

### Duct Characteristics

Name	Typhoon Orange 500 Mk2
Colour	Orange
Weave	Custom Denier
Base Material	Polyethylene
Suspension Method	Fully Welded Lifting Fin
Joining System	Eyelet Join

### Testing Results

#### AS2001.2.13 – 87 – Mass Per Unit Area

- Typhoon Orange 500 Mk2 - 450g/m2

#### AS2001.2.3.1-01 – Strip Method

Typhoon Orange 500 / Orange Duct

Maximum Load

- Warp - 3488N
- Weft - 2430N

Elongation at Maximum Load

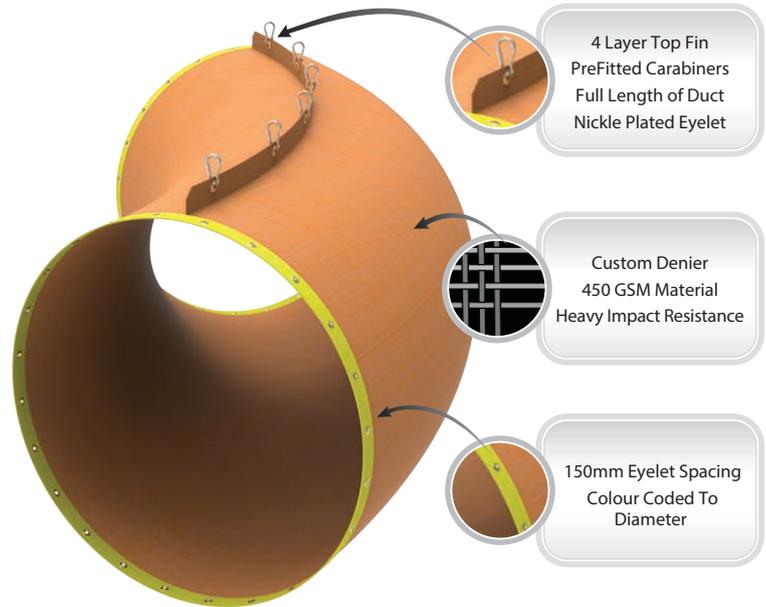
- Warp - 24.4%
- Weft - 19.0%

#### AS2001.2.10-1986 – Wing Rip Method

Typhoon Orange 500 / Orange Duct

Maximum Load

- Warp - 646N
- Weft - 645N



## VENT BAG SPECIFICATION

Fin Configuration	
#Layers Of Material	4 Layers - Including Eyelet Insertion Area
Minimum Distance From Top Of Eyelet To Duct Opening	40mm - Eyelet Inserted Directly Below Rope
Distance From Top Of Eyelet To Top Of Duct	15mm - Eyelet Inserted Directly Below Rope
Rope Type & Thickness	N/A
Eyelet Distance From End Of Duct	200-225mm
Eyelet Spacing	500mm
Spigot Configuration	
Colour	As Per Packaging Bags For Easy Identification
Layers Of Material	4 Layers - Including Eyelet Insertion Area
Eyelet Spacing	150mm
Eyelet Location In Relation To Top Of Bag	Top Centre - Directly In Line With The Top Fin
Overlap Distance For Spigot	60mm
Rope Type And Thickness	3 Strand Poly Rope - 6mm (400 Kilogram Breaking Strain)
Spigot Length	
Length Of Spigot	1400mm Dia = 1m Long
	1220mm Dia = 1m Long
	1067mm Dia And Below = 750mm Long
Spigot Material Thickness	Same As Main Body 450gsm +/- 3%
Packaging Bags	
UV Resistant	Yes
Colour Coded 1400mm Bag	Yellow
Colour Coded 1220mm Bag	Blue
Colour Coded 1067mm Bag	Green
Colour Coded 305mm To 915mm Bag	Orange

Typhoon Ducting is thoroughly tested in our wholly owned test facility in Western Australia. Our airflow resistance testing gives mining engineers the tools they require to develop accurate models with realistic outcomes. We are the only ducting manufacturer in Australia who has this capacity in house.

## TRY OUR QR SCANNING TECHNOLOGY

Each piece of Typhoon ducting and fittings are fitted with QR codes to monitor quality assurance.

Scan QR code for live demonstration.



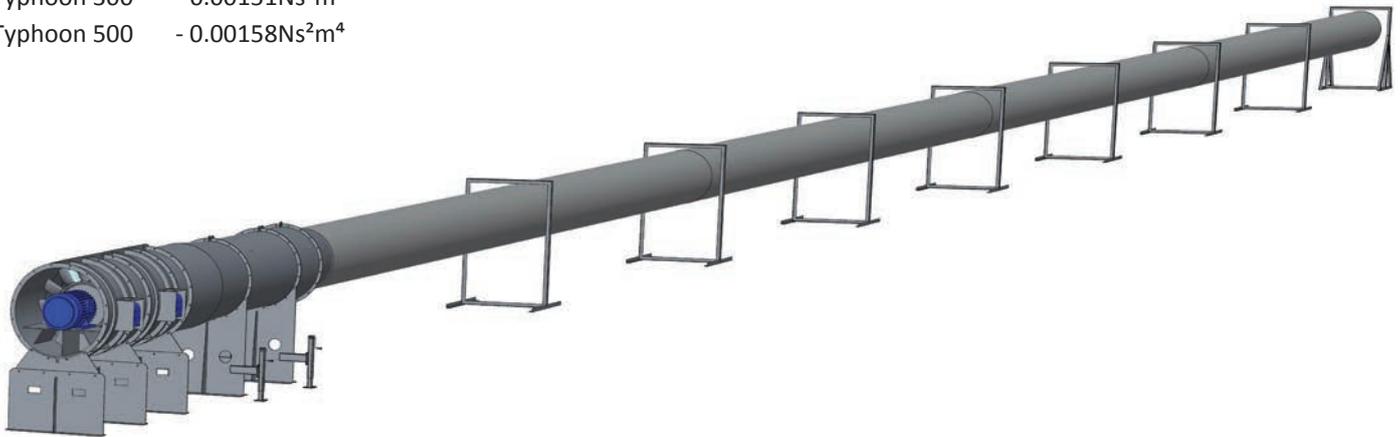
## Testing Results

### Duct Friction Factor - 20m Lengths\*\*

- Typhoon 300 - 0.00242Ns<sup>2</sup>m<sup>4</sup>
- Typhoon 500 - 0.00250Ns<sup>2</sup>m<sup>4</sup>

### Duct Friction Factor - 80m Lengths\*\*

- Typhoon 300 - 0.00151Ns<sup>2</sup>m<sup>4</sup>
- Typhoon 500 - 0.00158Ns<sup>2</sup>m<sup>4</sup>



## TEST RIG CONFIGURATION

Test Rig Setup	
Ducting Diameter	1067mm
Support Spacing	10m
Test Rig Length	80m
Ventilation Fan	CC1400Mk4 ( 2 x 110kW ) Axial Fan With VSD Control
Test Flow Rates	Hi-Flow ~ 32m <sup>3</sup> /s    Low-Flow ~ 13m <sup>3</sup> /s
Ventilation Duct Setup	
Joining Method	Eyelet Joining
Sealing Method	Internal Spigot
Suspension Method	Canetary Wire And Cable Ties
Suspension Point Spacing	500mm
Test Method and Characteristics	
Test Name	Duct Frictional Resistance Testing
ISO Standards	ISO-3966, ISO-5801
Pitot Traverse Method	Log-Tchebycheff Method
Friction Factor Calculation	Browning E.J. 1983

*\*\*Figures quotes are accurate as of the 27/8/15*



## DISTRIBUTED BY

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