

## Trade Name: Astro TDW Thermal Defense Wrap

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Fire resistant wrap for pipes and cables.

Fire resistance testing to EN 1366-3 EI 120.

Fire Classification to EN 13501-2.

Tested in block wall, concrete, masonry & plasterboard partition.

Tested in concrete floors.

Tested in large service openings.

Tested with metallic pipes, cables, cable bunches, cable trays and cable ladders.

Remains flexible between -10 to +160°C.

Continued flexibility without ageing.

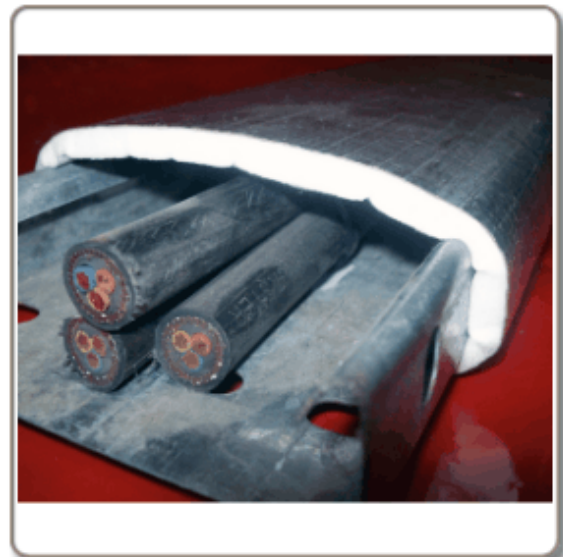
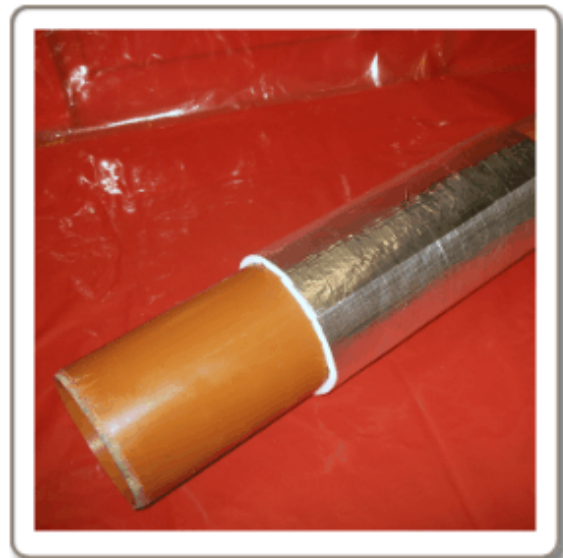
Quick and easy to install.

Easy to wrap, shape and cut.

High level of insulation, high temperature stability.



Certifire 3rd Party Accreditation



### Description

Thermal Defense Wrap prevents the passage of fire and smoke between fire rated compartments where there is a service penetration.

It is an easy to use product designed to maintain necessary insulation on services and prevent temperature rise of service on the cold face.

The wrap remains flexible at normal temperatures to permit thermal and mechanical movement of the services without

causing cable to overheat and deteriorate. It causes no known adverse effects to plastic pipes, plastic cables, sheathing or metallic components.

Thermal Defense Wrap is based on ceramic technology with bio-soluble, vitreous fibres and flexible organic binders that will maintain compartmentalization for up to 2 hours.

Tested in concrete floors. Tested in large service openings.

Highly flexible and water resistant. Halogen free, resists fungi and vermin.

For installation a 300mm length is required on each side of the service.

## Specification

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Dimensions	6mm thickness
Sheet Size	300mm wide x 1000mm long x 6mm We can supply in different roll sizes or cut to size
Density	180Kg/m <sup>3</sup> - 250Kg/m <sup>3</sup>
Colour	White & Silver
Alufoil Thickness	0.25mm Nominal
Fire Resistance	2 hours – EN1366:3 2009
Fire Classification	EN13501-2
Suitability	Cables, Metallic Pipes, Cable Trays, Cable Ladders
Use	Can be used around Armaflex type products
Thermal Conductivity (U Value)	N/A
Acoustic Performance	N/A
Shelf Life	36 months from date of manufacture.

## Installation Notes

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Use rubber gloves and protection to avoid skin and eye contact.  
Cut strip to suit service circumference.  
Wrap around the service.  
Apply Resin Extreme Glue or Foil tape to fix to service.  
Maintain record of installation.

Thermal Defense Wrap is not affected by an outdoor environment once installed and sealed. However, for long term storage and ease of installation it is recommended that it should be stored indoors, ideally in dry conditions. Ideal storage temperature between -5°C and +25°C.

## Availability & Packing

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Name	Dimensions	Product Code
Astro TDW	300mm wide x 1200mm long x 6mm	AFTDW
Astro TDW	Customer Specified	---

Please quote - Quantity / Trade Name / Product Ref.

Typical example:-

10 / Astro Thermal Defense Wrap / AFTDW

## Fire Test or Assessment Reports

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Fire resistance testing to EN 1366-3 EI 120.

Fire Classification to EN 13501-2.

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## Environmental Impact

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Low VOC (air quality).

No Power Tools required for installation (no energy source required).

Dust free.

Low Ozone Depletion Potential (ODP).

Low Global Warming Potential (GWP).

No water pollution.

Smoke and Air Tightness.

Noise Reduction.

Thermal Insulation.

Recycling of Packaging.

Avoidance of Air Filtration.

Does not emit halogenated by-products.

Contains no raw materials known to have an estrogenic effect.

The life cycle of Thermal Defense Wrap is over 25 years.

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