

Product name	Thermal Defense® Wrap
Product Code	TDW
Revision Date	01/11/2013
Revision number	01
Ref	PDS TDW



INTRODUCTION

Thermal Defense Wrap has been developed to prevent the passage of fire and smoke between fire resisting compartments where there is a service penetration. TDW is designed to allow the movement services in use, maintain necessary insulation on services and prevent temperature rise of service on the cold face. At normal temperatures, remains flexible to permit thermal and mechanical movement of the services without causing cable to overheat and deteriorate. TDW is based ceramic technology of bio-soluble vitreous fibres and flexible organic binders and will maintain the compartmentalization for up to 2 hours.

The advantages of the Thermal Defense® Wrap are as follows:

- Fire resistance testing to EN 1366-3:2009 EI 120.
- Fire Classification to EN 13501-2.
- Certifire 3rd Party Accreditation *CF 514/517/5127/512/513.
- Fire resistance tested for use in flexible walls and rigid walls & floors.
- Tested in large service openings.
- Tested with Metallic Pipes, Cables, Cable Bunches, Cable Trays and Cable Ladders.
- Causes no known effects to plastic pipes, plastic cables, sheathing or metallic components.
- Contributes to Green Building.
- Highly flexible and water resistant.
- Halogen free, resists fungi and vermin.
- 300mm length required on each side of the service.
- Remains flexible between -10 to +160°C.
- Continued flexibility without ageing.
- Speed and ease of installation.
- Easy to wrap, shape and cut.
- High level of insulation, high temperature stability.
- Allows cable temperature to remain.



* In conjunction with other products




SPECIFICATION

Dimensions	6mm thickness
Sheet Size	300mm wide x 1200mm long
Density	180Kg/m ³ - 250Kg/m ³
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


INSTALLATION

Installation details and technical support are available from FSi technical department or on the internet at www.fsiltld.com.

- 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.


COMPLIANCE

The Thermal Defence® Wrap are manufactured in the EU, meeting the highest quality standard in compliance to ISO EN 9001. For fire test certification contact FSi technical department.


STORAGE AND DISPOSAL

Thermal Defence® 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. For health and safety details refer to FSi technical department.

Thermal Defence® Wrap shelf life 36 month from date of manufacture.





ENVIRONMENT

FSi contribute to Green Building by having a manufacturing policy of 100% recycle and 0% landfill for all products. Thermal Defence® Wrap contributes to a Green Building :-

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 Defence® Wrap is over 25 years.

