



CERTIFICATE OF APPROVAL
No CF 580

This is to certify that, in accordance with
CERTIFIRE's Rules for Certification
The undermentioned products of

**FIRETHERM INTUMESCENT & INSULATION
SUPPLIES LIMITED**

**Unit F, Acorn Industrial Park, Crayford Rd, Crayford, Kent
DA1 4FT**

Tel: 01322 551010 Fax: 01322 552727

Have been assessed against the requirements of the Technical Schedule(s)
denoted below and are approved for use subject to the conditions
appended hereto:

CERTIFIED PRODUCT

Intubatt 1 & Intubatt 3

TECHNICAL SCHEDULE

**TS03 Penetration Sealing
Systems, TS40 Linear Gap
Sealing Systems**

Signed and sealed for and on behalf of CERTIFIRE

Sir Ken Knight
Chairman - Management Council

Issued: 6th February 2008
Revised: 27th February 2009
Valid to: 5th February 2013

Page 1 of 5



Only valid when authentic
CERTIFIRE Seal is in place



CERTIFICATE No CF 580
FIRETHERM LIMITED

Intubatt 1 & Intubatt 3

1. This approval relates to the use of Intubatt 1 & Intubatt 3 for the fire protection where there are joints in/between or services are penetrating walls & floors. The detailed scope is given in the Approval Matrix included in this Certificate. This shows the thickness and acceptable services for Intubatt 1 & Intubatt 3 required to provide fire resistance periods in accordance with BS 476: Part 20: 1987 of up to 240 minutes for differing services and wall/floor constructions.
2. This certification is designed to demonstrate compliance of the product or system specifically with Approved Document B (England and Wales), Section 2 of the Technical Standards (Scotland), Technical Booklet E (N. Ireland). If compliance is required to other regulatory or guidance documents there may be additional considerations or conflict to be taken into account.'
3. The product is approved on the basis of:
 - iv) Initial type testing
 - v) Audit testing at the frequency specified in TS03 & TS40
 - iii) A design appraisal against TS03 & TS40
 - vi) Inspection and surveillance of factory production control
 - vii) Production surveillance under ISO 9001:2000
4. The masonry or concrete walls shall be at least 140 mm thick and have at least the same fire rating as that required for the penetration seal. The concrete floors shall be at least 140 mm thick and have at least the same fire rating as that required for the penetration seal. The gypsum drywalls shall be at least 130 mm thick and have at least the same fire rating as that required for the penetration seal.
5. The services which may be fitted through the seals are cable ladders, cables and metallic pipes, as detailed within the Approval Matrix included in this Certificate.
6. The approval relates to ongoing production. Product and/or its immediate packaging is identified with the manufacturers' name, the product name or number, the CERTIFIRE name or name and mark, together with the CERTIFIRE certificate number and application where appropriate.



CERTIFICATE No CF 580
FIRETHERM LIMITED

Intubatt 1

Approval Matrix - Up To 120 Minute Walls

Product Name:	Intubatt 1		
Coating / DFT:	Intucoat to both sides/0.5-1mm thick		
Density:	190 kg/m ³ minimum		
Barrier	Service	Integrity	Insulation
Single layer (50 mm)	Cable tray (150 mm wide by 25 mm high max.)	60 minutes	60 minutes
	Armoured 4 copper core power cables 17mm diam.	60 minutes	60 minutes
	3 copper core power flex 8mm diam.	60 minutes	60 minutes
	4 - 8 mm diameter single core earth cables	60 minutes	60 minutes
	4 - 9 mm diameter single core neutral cables	60 minutes	60 minutes
	Bundles 3.5 mm diam. Data cables	60 minutes	60 minutes
Double layer (100 mm)	Stone wool lagged copper pipes up to 22 mm diam.	60 minutes	60 minutes
	Cable tray (150 mm wide by 25 mm high max.)	120 minutes	60 minutes
	Armoured 4 copper core power cables 17mm diam.	120 minutes	60 minutes
	3 copper core power flex 8mm diam.	120 minutes	60 minutes
	4 - 8 mm diameter single core earth cables	120 minutes	60 minutes
	4 - 9 mm diameter single core neutral cables	120 minutes	60 minutes
Double split layer (100 mm + 130 mm cavity)	Bundles 3.5 mm diam. Data cables	120 minutes	60 minutes
	Stone wool lagged copper pipes up to 22 mm diam.	120 minutes	60 minutes
	Cable tray (150 mm wide by 25 mm high max.)	120 minutes	120 minutes
	Armoured 4 copper core power cables 17mm diam.	120 minutes	120 minutes
	3 copper core power flex 8mm diam.	120 minutes	120 minutes
	4 - 8 mm diameter single core earth cables	120 minutes	120 minutes
Application Technique:	4 - 9 mm diameter single core neutral cables	120 minutes	120 minutes
	Bundles 3.5 mm diam. Data cables	120 minutes	120 minutes
	Stone wool lagged copper pipes up to 22 mm diam.	120 minutes	120 minutes
	Pipes must be lagged to full length with 40 mm thick stone wool material (interrupted at the seal) and cable trays/cables must be lagged to a minimum length of 300 mm on both sides of the seal with 20 mm thick stone wool material. All junctions to be sealed with Firetherm intumescent mastic.		
Maximum aperture:	1000 mm high by 400 mm wide Multiple apertures must be separated by a minimum of 200 mm		
Walls	The walls shall be a minimum of 130 mm thick and be constructed from steel or timber studs faced with minimum 2 layers of gypsum based boards. Where timber studs are used, the aperture must always be lined with 2 layers of board. All walls shall have at least the same fire rating as that required for the barrier.		
Application Technique:	Gypsum drywalls: Single layer board tightly friction requires fitting into the aperture at mid-depth of the wall, the aperture to be lined with 2 layers of gypsum board. Double layer requires boards tightly friction fitted into the aperture flush to each side of the wall. Single and double layer board to aperture junctions are sealed with Firetherm Intumescent mastic. The split board system requires a single layer of board to be face fixed over each side of the aperture, with a 100 mm overlap all round and 70 mm steel screws at 200 mm centres (50 mm from corners). Firetherm intumescent mastic is used to form a seal between the board and face of the wall. Apertures for penetrating items are to be tightly fitting and be sealed/'made good' with Firetherm intumescent mastic.		
Service Coat-Back :	Not required	U Value:	Not known
Service Support Requirements:	Services should be rigidly supported via steel angles, hangars or channels, not further than 150 & 500 mm from the surface of the sealing system on both faces.		
Resistance to Smoke:	Not evaluated by this approval	Weather Capability:	Not evaluated by this approval
Acoustic Rating:	Not evaluated by this approval	Movement Capability:	Not evaluated by this approval



CERTIFICATE No CF 580
FIRETHERM LIMITED

Intubatt 1

Approval Matrix - Up To 240 Minute Walls

Product Name:		Intubatt 1	
Coating / DFT:		Intucoat to both sides/0.5-1mm thick	
Density:		190 kg/m ³ minimum	
Barrier	Service	Integrity	Insulation
Single layer (50 mm)	Cable Ladder (150 mm wide by 15 mm high max.)	240 minutes	N/A
	PVC sheathed copper core cables 11 mm diameter	240 minutes	90 minutes
	Steel pipes up to 34 mm diameter (3 mm pipe wall)	240 minutes	N/A
Single layer (60 mm)	Cable Ladder (150 mm wide by 15 mm high max.)	240 minutes	N/A
	PVC sheathed copper core cables 11 mm diameter	240 minutes	90 minutes
	Steel pipes up to 34 mm diameter (3 mm pipe wall)	240 minutes	N/A
Single layer (70 mm)	Cable Ladder (150 mm wide by 15 mm high max.)	240 minutes	N/A
	PVC sheathed copper core cables 11 mm diameter	240 minutes	90 minutes
	Steel pipes up to 34 mm diameter (3 mm pipe wall)	240 minutes	N/A
Single layer (80 mm)	Cable Ladder (150 mm wide by 15 mm high max.)	240 minutes	120 minutes
	PVC sheathed copper core cables 11 mm diameter	240 minutes	90 minutes
	Steel pipes up to 34 mm diameter (3 mm pipe wall)	240 minutes	30 minutes
Double layer (100 mm)*	Cable Ladder (340 mm wide by 100 mm high max.)	240 minutes	60 minutes
	PVC sheathed copper core cables 11 mm diameter	240 minutes	60 minutes
	PVC sheathed copper core cables 33 mm diameter	240 minutes	30 minutes
	Steel pipes up to 115 mm diameter (3-5mm pipe wall)	240 minutes	45 minutes
	Copper pipes up to 28 mm diameter (1 mm pipe wall)	240 minutes	90 minutes
* Services to be wrapped with 25 mm thick stone wool (45 kg/m ³) and coated with nominally 2 mm Intucoat to a minimum length of 100 mm on each side.			
Maximum aperture:	600 mm high by 600 mm Multiple apertures must be separated by a minimum of 200 mm		
Walls	The walls shall be a minimum of 140 mm thick. The minimum density for the concrete or brick of the wall is 780kg/m ³ and for walls made of concrete blocks is 600kg/m ³ . All concrete or masonry walls shall have at least the same fire rating as that required for the barrier.		
Application Technique:	Concrete/masonry walls: Boards tightly friction fitted into the aperture at mid-depth of the wall. Board to aperture junction is sealed with Intucoat. Apertures for penetrating items are to be tightly fitting and be sealed/'made good' with Intucoat coating.		
Service Coat-Back :	Not required*	U Value:	Not known
Service Support Requirements:	Services should be rigidly supported via steel angles, hangars or channels, not further than 430 mm from the surface of the sealing system on both faces.		
Resistance to Smoke:	Not evaluated by this approval	Weather Capability:	Not evaluated by this approval
Acoustic Rating:	Not evaluated by this approval	Movement Capability:	Not evaluated by this approval



CERTIFICATE No CF 580
FIRETHERM LIMITED

Intubatt 3

Approval Matrix - Up To 240 Minute Floors

Product Name		Intubatt 3			
Coating / DFT:		Intucoat to the upper face/0.5-1mm thick			
Density:		100 kg/m ³ minimum			
Configuration	Max. Joint Width (mm)	Minimum Seal Depth (mm)	Compression	Integrity (mins)	Insulation (mins)
Autoclaved aerated concrete/concrete	200	100	5-10%	240	90
Application Technique	Intubatt 3 compressed into the joint and the edges sealed with Firetherm intumescent mastic.				
Resistance to Smoke:	Not evaluated by this approval	Weather Capability:	Not evaluated by this approval		
Acoustic Rating:	Not evaluated by this approval	Movement Capability:	Not evaluated by this approval		