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## CERTIFICATE OF APPROVAL

### No CF 5609

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This is to certify that, in accordance with  
TS00 General Requirements for Certification of Fire Protection Products  
The undermentioned products of

**TREMCO CPG UK LIMITED**  
Coupland Road, Hindley Green, Wigan, WN2 4HT  
Tel: 0247 6855000

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

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**CERTIFIED PRODUCT**  
**Nullifire FS709 Intumastic HP**

**TECHNICAL SCHEDULE**  
**TS03 Penetration Sealing  
Systems**

This certification is provided to the client for their own purposes and we cannot opine on whether it will be accepted by Building Control authorities or any other third parties for any purpose.

**Signed and sealed for and on behalf of Warringtonfire Testing and Certification Limited**

**Paul Duggan**  
**Certification Manager**



Issued: 31<sup>st</sup> August 2018  
Revised: 19<sup>th</sup> August 2020  
Valid to: 30<sup>th</sup> August 2023





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## CERTIFICATE No CF 5609

### TREMCO CPG UK LIMITED

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#### **Nullifire FS709 Intumastic HP**

1. This approval relates to the use of Nullifire FS709 Intumastic HP intumescent sealant pipe systems for fire protection where there are services penetrating walls or. The detailed scope is given in the Approval Matrix included in this Certificate. This shows the acceptable configurations to provide fire resistance periods in accordance with BS EN 1366-3: 2009 of up to 120 minutes for differing services and elements of construction.
2. This Certification is designed to demonstrate compliance of the product or the system specifically with TS03, if compliance is required to other regulatory or guidance documents there may be additional considerations or conflicts to be taken into account.
3. The product is approved on the basis of:
  - i) Initial type testing
  - ii) Audit testing at the frequency specified in TS03
  - iii) A design appraisal against TS03
  - iv) Inspection and surveillance of factory production control
  - v) Production surveillance under ISO 9001:2008
4. The masonry or concrete walls and drywalls shall be at least 100 mm thick and have at least the same fire rating as that required for the penetration seal. The masonry or concrete floors shall be at least 150 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 as detailed within the Approval Matrix included in this Certificate.
6. The approval relates to on-going 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.

#### **Further Information**

Further information regarding the details contained in this data sheet may be obtained from Nullifire Limited Tel: 0247 6855000

Further information regarding CERTIFIRE certification and other approved products can be obtained from CERTIFIRE (Tel:01925 646777, website: [www.warringtoncertification.com](http://www.warringtoncertification.com))



## CERTIFICATE No CF 5609

### TREMCO CPG UK LIMITED

#### Approval Matrix Walls – Nullifire FS709 Intumastic HP

Pipe Size and Type	FS709 Dimensions	Nullifire FB 750	Integrity	Insulation
6 x PEX pipe, 28mm Ø, 2.6mm wall thickness	10mm annulus full 25mm depth of the Nullifire FB750 Coated Batt	<sup>1</sup> Nullifire FB 750 Patress installed max dimensions 1200mm wide x 1800mm high	90 minutes	
		<sup>2</sup> Nullifire FB 750 Installed back to back max dimensions 1200mm wide x 1800mm high	60 minutes	
Walls	The walls shall be a minimum of 130 mm thick. Drywalls shall comprise a minimum of 2 layers of 'Type F' Gypsum board on both faces, with minimum 50 mm studs. Masonry/concrete walls shall have a minimum density for concrete or brick of 780kg/m <sup>3</sup> and for aerated concrete blocks of 600kg/m <sup>3</sup> . All walls shall have at least the same fire rating as that required for the pipe closure system.			
Application Technique:	<sup>1</sup> 2 x 50mm Nullifire FB750 Coated Batt patress fixed and overlapped by minimum 65mm on to the supporting construction <sup>2</sup> 2 x 50mm Nullifire FB750 installed back to back in to the supporting construction (see Nullifire Technical data sheet for full installation details)			
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 450 mm from the surface of the sealing system on both faces			



## CERTIFICATE No CF 5609

### TREMCO CPG UK LIMITED

#### Approval Matrix Walls – Nullifire FS709 Intumastic HP

Linear Joint Specification					FS709 Dimensions	Backing Material	Integrity	Insulation
Plasterboard partition 100mm deep abutting masonry wall					20mm wide x 25 deep both faces of the seal	PE Rod	120 minutes	
Walls	The walls shall be a minimum of 100 mm thick. Drywalls shall comprise a minimum of 2 layers of ‘Type F’ Gypsum board on both faces, with minimum 50 mm studs. Masonry/concrete walls shall have a minimum density for concrete or brick of 780kg/m <sup>3</sup> and for aerated concrete blocks of 600kg/m <sup>3</sup> . All walls shall have at least the same fire rating as that required for the pipe closure system.							
Application Technique:	FS709 sealant to be applied both faces of the substrate. (see Nullifire Technical data sheet for full installation details)							
Service Coat-Back :	Not required						U Value:	Not known
Service Support Requirements	N/A							



# CERTIFICATE No CF 5609

## TREMCO CPG UK LIMITED

### Approval Matrix Walls – Nullifire FS709 Intumastic HP

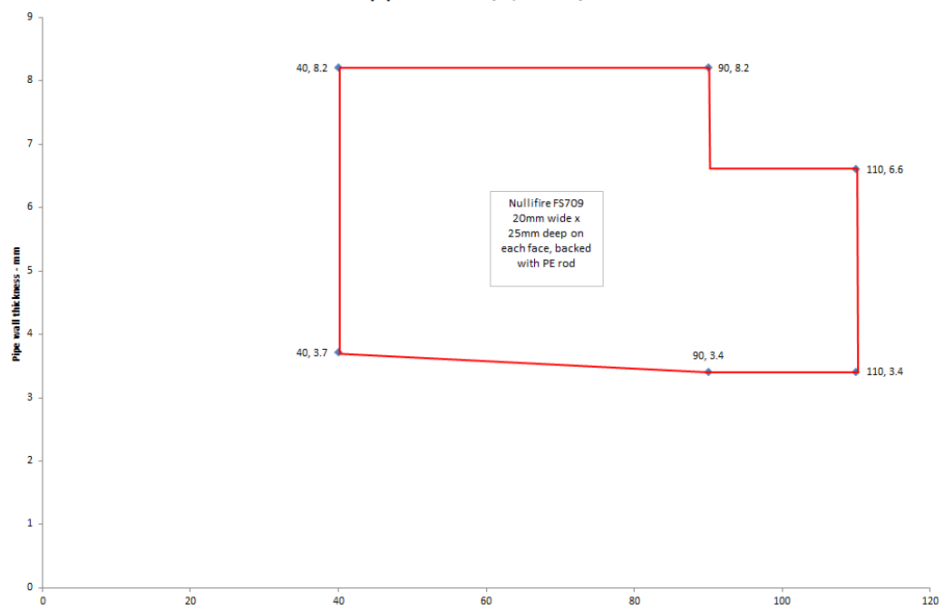
Pipe Size and Type		FS709 Dimensions	Backing Material	Integrity	Insulation		
uPVC pipe, 125mm Ø, 4.8-7.4mm wall thickness		16mm wide x 25mm deep	PE Rod	120 minutes			
PE pipe, 90mm Ø, 8.2mm wall thickness		12.5mm wide x 25mm deep					
ABS pipe, 90mm Ø, 6.0mm wall thickness							
uPVC pipe, 40mm Ø, 1.9-3.0mm wall thickness							
Copper pipe, 15mm Ø, 0.7 – 14.2mm wall thickness		20mm wide x 25mm deep		120 minutes	90 minutes		
Copper pipe, 160mm Ø, 2– 14.2mm wall thickness, insulated with 30mm thick foil faced glass wool (CS)				120 minutes			
PEX pipe, 28mm Ø, 2.0mm wall thickness							
uPVC pipe, 125mm Ø, 8.2 mm wall thickness							
uPVC pipe, 40mm Ø, 1.9mm wall thickness							
PE pipe, 90mm Ø, 8.2 mm wall thickness							
ABS pipe, 40mm Ø, 7.2 mm wall thickness				120 minutes	90 minutes		
uPVC pipe, 110mm Ø, 3.2 mm wall thickness				120 minutes			
PE pipe, 110mm Ø, 6.3 mm wall thickness							
PE pipe, 40mm Ø, 3.7 mm wall thickness							
PE pipe, 110mm Ø, 6.6 mm wall thickness				120 minutes	90 minutes		
PE pipe, 110mm Ø, 3.4 mm wall thickness				120 minutes	60 minutes		
ABS pipe, 114mm Ø, 6.4 mm wall thickness				600mm wide x 140mm high opening. FS709 Sealant installed to a depth of 25mm to both faces	Stone Wool 33kg/m <sup>3</sup> 50mm deep centrally to both faces	120 minutes	90 minutes
ABS pipe, 110mm Ø, 11.2 mm wall thickness							
PE pipe, 63mm Ø, 5.8 mm wall thickness							
Single electrical and telecoms cables up to 21mm Ø, (including bundles up to 40mm)							
Pipe in pipe – Copper 15mm Ø, 0.7mm wall thickness, in PE pipe 63mm Ø, 5.8mm wall thickness		Steel cable trays and ladders up to 500mm	Bundles of 10 electrical cables up to 80mm Ø		Non sheathed cables up to 24mm Ø		
Steel cable trays and ladders up to 500mm							
Bundles of 10 electrical cables up to 80mm Ø							
Non sheathed cables up to 24mm Ø							
Walls	The walls shall be a minimum of 100 mm thick. Drywalls shall comprise a minimum of 2 layers of ‘Type F’ Gypsum board on both faces, with minimum 50 mm studs. Masonry/concrete walls shall have a minimum density for concrete or brick of 780kg/m <sup>3</sup> and for aerated concrete blocks of 600kg/m <sup>3</sup> . All walls shall have at least the same fire rating as that required for the pipe closure system.						
Application Technique:	The hole for the pipe shall be drilled to suit the required annular space. The pipe shall then be positioned centrally within the hole and then the remaining annular space shall be in-filled to the required dimensions, with the FS709 sealant material both faces of the substrate. (see Nullifire Technical data sheet for full installation details)						
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 450 mm from the surface of the sealing system on both faces						



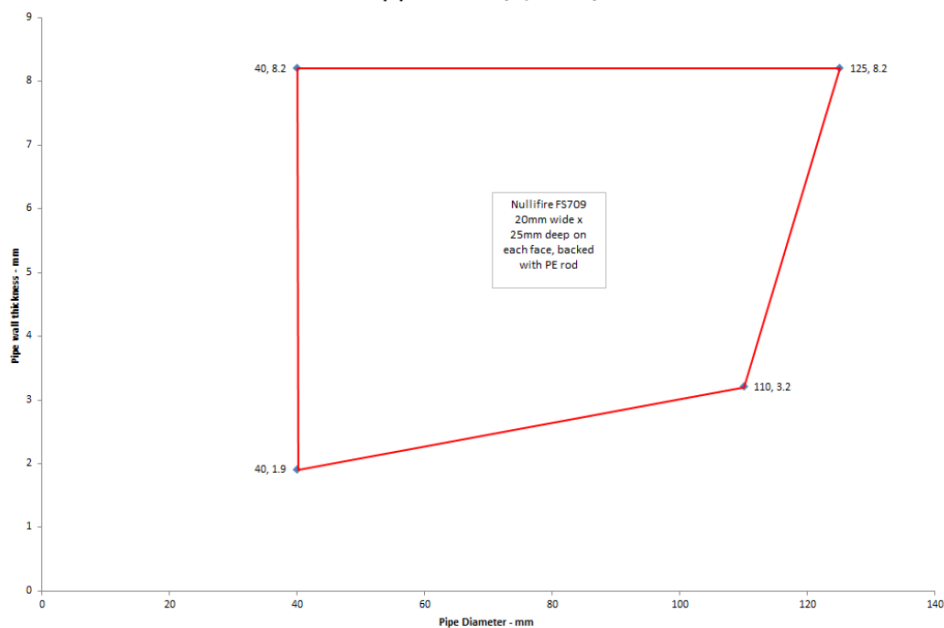
## CERTIFICATE No CF 5609

### TREMCO CPG UK LIMITED

#### PE pipes - E 120 U/C, EI 90 U/C



#### uPVC pipes - E 120 U/C, EI 90 U/C



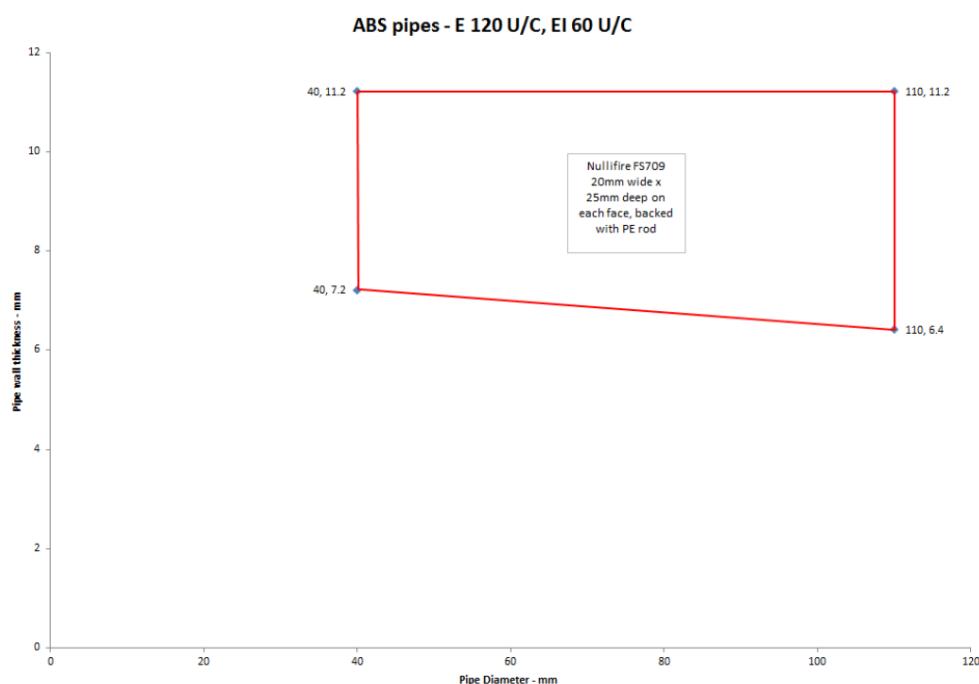


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## CERTIFICATE No CF 5609

### TREMCO CPG UK LIMITED

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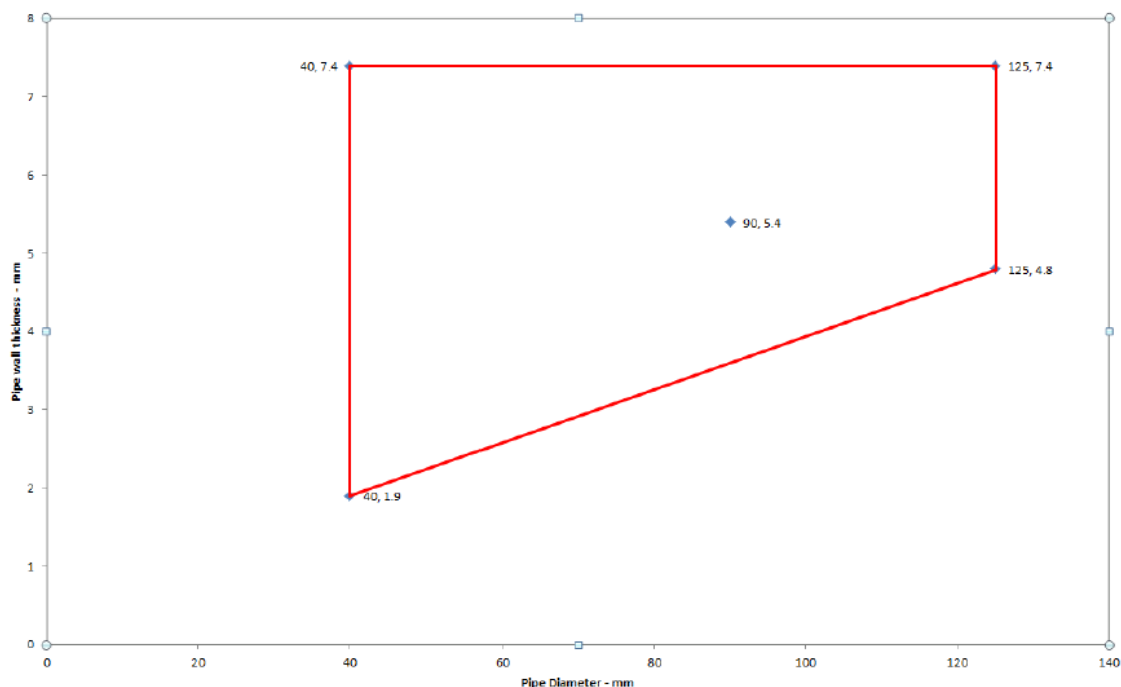


## CERTIFICATE No CF 5609 TREMCO CPG UK LIMITED

### Approval Matrix Floors – Nullifire FS709 Intumastic HP

Approval Matrix Floors - Nullifire FB750 Intumescent Fire				
Pipe Size and Type	FS709 Dimensions	Nullifire FB 750	Integrity	Insulation
PVC Pipe 40mm Ø, 1.9mm wall thickness	20mm annulus full 50mm depth of the upper surface Nullifire FB750 Coated Batt	Nullifire FB 750 Installed back to back max dimensions 1100mm wide x 1100mm long. Flush with the upper side of the floor	60 minutes	
PVC Pipe 90mm Ø, 1.9mm wall thickness				
PVC Pipe 125mm Ø, 4.8mm – 7.4 wall thickness				
Floors	The floor shall be a minimum of 150 mm thick. Masonry/concrete floors shall have a minimum density for concrete of 780kg/m <sup>3</sup> and for aerated concrete blocks of 600kg/m <sup>3</sup> . All floors shall have at least the same fire rating as that required for the pipe closure system.			
Application Technique:	2 x 50mm Nullifire FB750 installed back to back in to the supporting construction (see Nullifire Technical data sheet for full installation details)			
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 450 mm from the surface of the sealing system on the upper face			

PVC pipes - EI 60 U/C



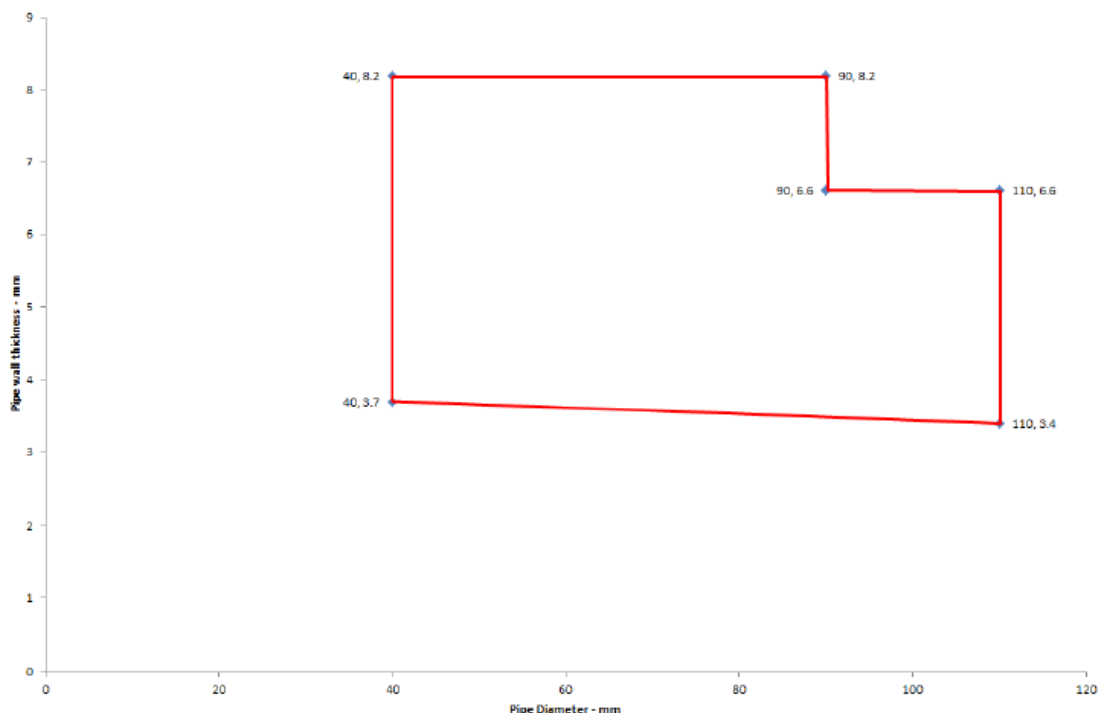


## CERTIFICATE No CF 5609 TREMCO CPG UK LIMITED

### Approval Matrix Floors – Nullifire FS709 Intumastic HP

Approval Matrix FIBERS - Nullifire FS709 Intumescent Fire				
Pipe Size and Type	FS709 Dimensions	Nullifire FB 750	Integrity	Insulation
PE Pipe 40mm Ø, 3.7mm wall thickness	20mm annulus full 50mm depth of the upper surface Nullifire FB750 Coated Batt	Nullifire FB 750 Installed back to back max dimensions 1100mm wide x 1100mm long. Flush with the upper side of the floor	60 minutes	
PE Pipe 90mm Ø, 8.2mm wall thickness				
PE Pipe 110mm Ø, 3.4mm – 6.6mm wall thickness				
Floors	The floor shall be a minimum of 150 mm thick. Masonry/concrete floors shall have a minimum density for concrete of 780kg/m <sup>3</sup> and for aerated concrete blocks of 600kg/m <sup>3</sup> . All floors shall have at least the same fire rating as that required for the pipe closure system.			
Application Technique:	2 x 50mm Nullifire FB750 installed back to back in to the supporting construction (see Nullifire Technical data sheet for full installation details)			
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 450 mm from the surface of the sealing system on the upper face			

PE pipes - EI 60 U/C

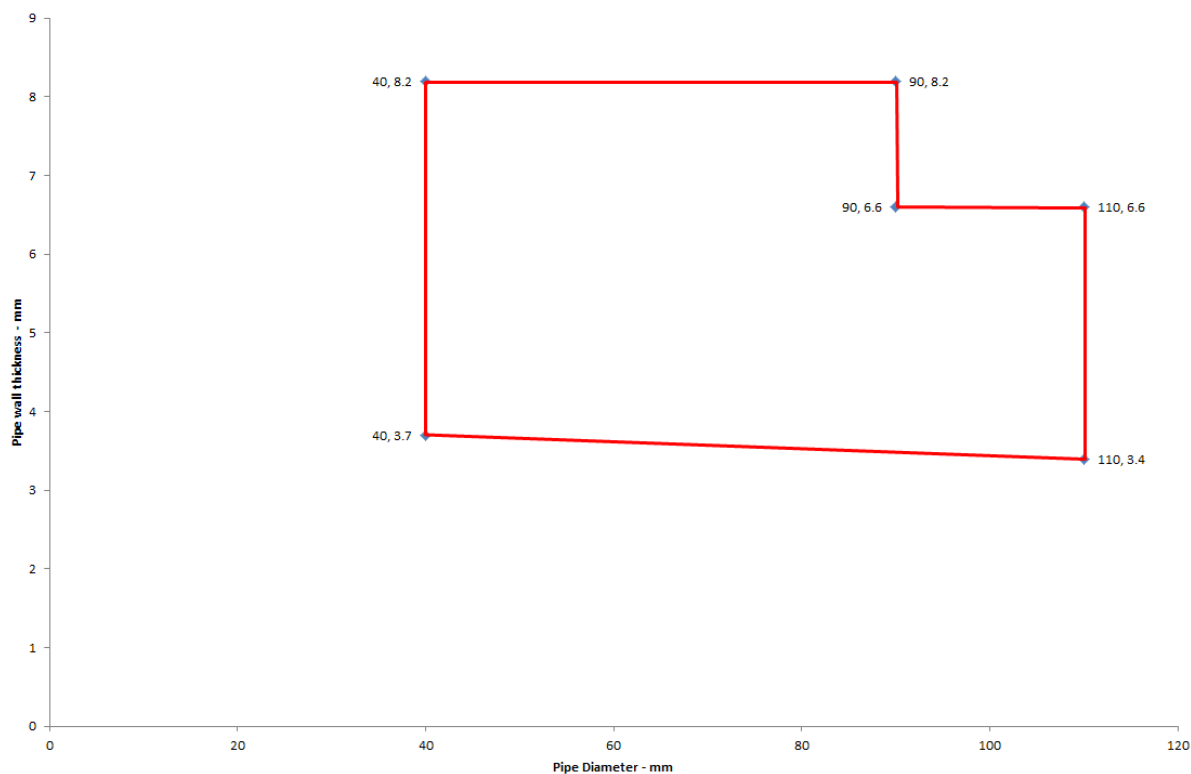


## CERTIFICATE No CF 5609 TREMCO CPG UK LIMITED

### Approval Matrix Floors – Nullifire FS709 Intumastic HP

Approval Matrix Floors Nullifire FS709 Intumescent Fire				
Pipe Size and Type	FS709 Dimensions	Nullifire FB 750	Integrity	Insulation
PE Pipe 40mm Ø, 3.7mm wall thickness	20mm annulus full 50mm depth of the upper surface Nullifire FB750 Coated Batt	Nullifire FB 750 Installed back to back max dimensions 1100mm wide x 1100mm long. Flush with the upper side of the floor	60 minutes	
PE Pipe 90mm Ø, 8.2mm wall thickness				
PE Pipe 110mm Ø, 3.4mm – 6.6mm wall thickness				
Floors	The floor shall be a minimum of 150 mm thick. Masonry/concrete floors shall have a minimum density for concrete of 780kg/m <sup>3</sup> and for aerated concrete blocks of 600kg/m <sup>3</sup> . All floors shall have at least the same fire rating as that required for the pipe closure system.			
Application Technique:	2 x 50mm Nullifire FB750 installed back to back in to the supporting construction (see Nullifire Technical data sheet for full installation details)			
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 450 mm from the surface of the sealing system on the upper face			

### PE pipes - EI 60 U/C





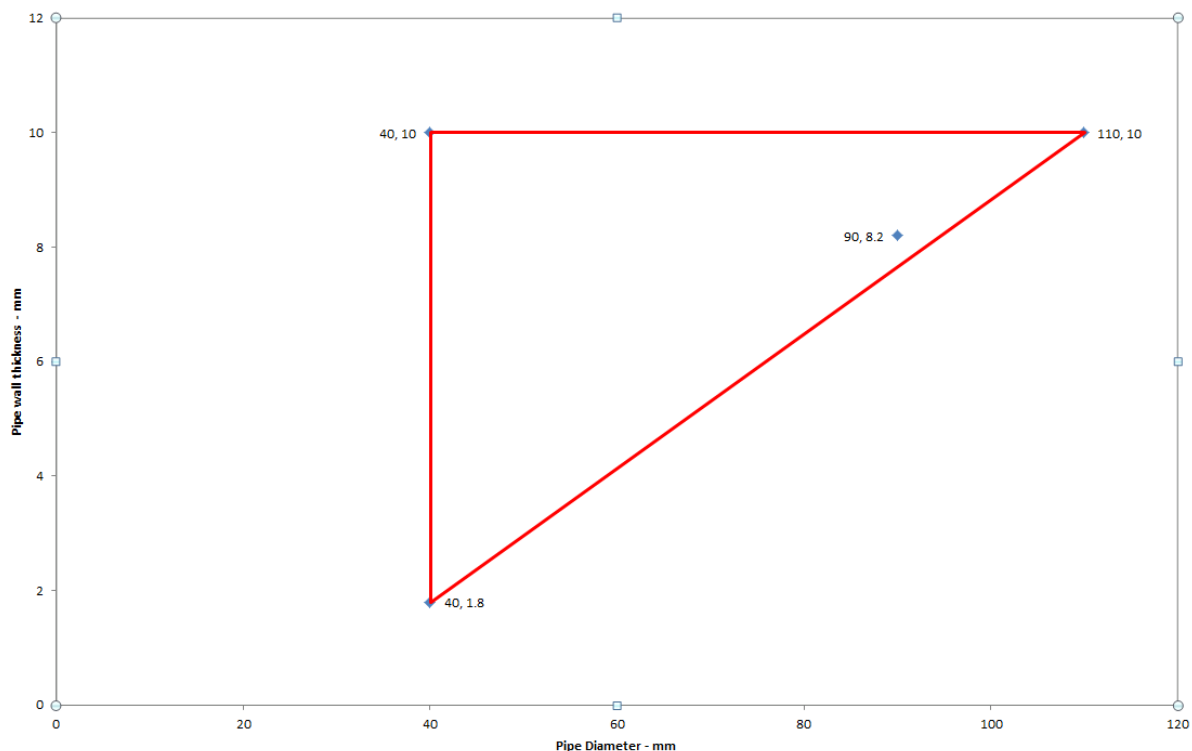
## CERTIFICATE No CF 5609

### TREMCO CPG UK LIMITED

#### Approval Matrix Floors – Nullifire FS709 Intumastic HP

Pipe Size and Type	FS709 Dimensions	Nullifire FB 750	Integrity	Insulation
PP Pipe 40mm Ø, 1.8mm wall thickness	20mm annulus full 50mm depth of the upper surface Nullifire FB750 Coated Batt	Nullifire FB 750 Installed back to back max dimensions 1100mm wide x 1100mm long. Flush with the upper side of the floor	60 minutes	
PP Pipe 90mm Ø, 8.2mm wall thickness				
PP Pipe 110mm Ø, 10mm wall thickness				
PP Pipe 110mm Ø,2.7mm wall thickness			30 minutes	20 minutes
Floors	The floor shall be a minimum of 150 mm thick. Masonry/concrete floors shall have a minimum density for concrete of 780kg/m <sup>3</sup> and for aerated concrete blocks of 600kg/m <sup>3</sup> . All floors shall have at least the same fire rating as that required for the pipe closure system.			
Application Technique:	2 x 50mm Nullifire FB750 installed back to back in to the supporting construction (see Nullifire Technical data sheet for full installation details)			
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 450 mm from the surface of the sealing system on the upper face			

PP pipes - EI 60 U/C

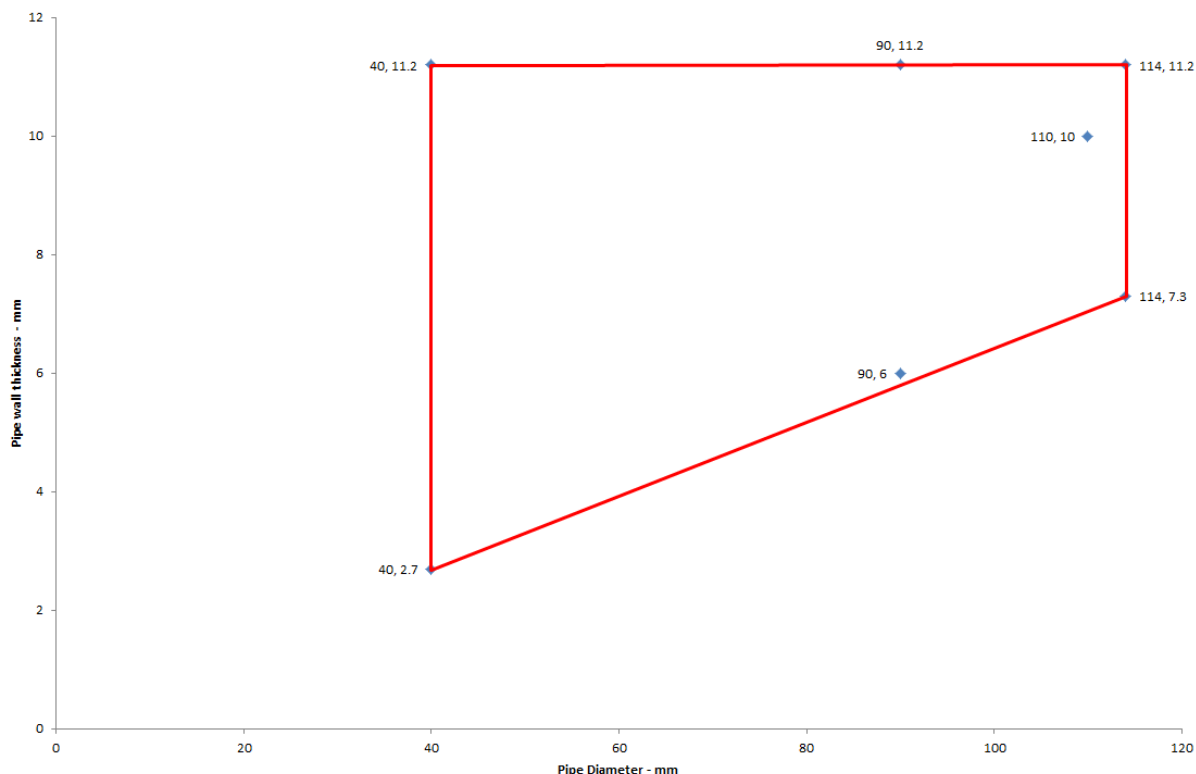


## CERTIFICATE No CF 5609 TREMCO CPG UK LIMITED

### Approval Matrix Floors – Nullifire FS709 Intumastic HP

Approval Matrix Floors - Nullifire FB750 Intumescent Fire Protection				
Pipe Size and Type	FS709 Dimensions	Nullifire FB 750	Integrity	Insulation
ABS Pipe 40mm Ø, 2.7mm wall thickness	20mm annulus full 50mm depth of the upper surface Nullifire FB750 Coated Batt	Nullifire FB 750 Installed back to back max dimensions 1100mm wide x 1100mm long. Flush with the upper side of the floor	60 minutes	
ABS Pipe 90mm Ø, 6.0 – 11.2mm wall thickness				
ABS Pipe 114mm Ø, 7.3 – 11.2mm wall thickness				
Floors	The floor shall be a minimum of 150 mm thick. Masonry/concrete floors shall have a minimum density for concrete of 780kg/m <sup>3</sup> and for aerated concrete blocks of 600kg/m <sup>3</sup> . All floors shall have at least the same fire rating as that required for the pipe closure system.			
Application Technique:	2 x 50mm Nullifire FB750 installed back to back in to the supporting construction (see Nullifire Technical data sheet for full installation details)			
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 450 mm from the surface of the sealing system on the upper face			

### ABS pipes - EI 60 U/C





## CERTIFICATE No CF 5609

### TREMCO CPG UK LIMITED

#### Approval Matrix Floors – Nullifire FS709 Intumastic HP

Cable Size and Type		FS709 Dimensions	Backing Material	Integrity	Insulation
Unopened tube of Nullifire FS709 Intumastic HP inserted into a circular aperture and retained from above utilising a steel plate		Unopened tube	N/A	120 minutes	
50mm / 2mm wall PVC sheath containing 2 x 19-23mm Ø single sheath wires and three core twin and earth cable.		Inside the pipe 50mm Ø by 30mm depth Nullifire FS709 Intumastic HP flush to the upper face	Stone wool 64kg/m <sup>3</sup> 30mm depth		
50mm / 2mm wall PVC sheath containing 6 x three core twin and earth cable.					
20 No. 3 core- twin and earth cables		80mm Ø opening x 30mm deep	Stone wool 64kg/m <sup>3</sup> 25mm depth	120 minutes	
36 No. Cat 5 cables					
Electrical cables up to 21mm Ø and steel cable trays up to 500mm wide		600mm wide x 600mm long x 25mm deep	Stone wool 33kg/m <sup>3</sup> 100mm depth	60 minutes	45 minutes
Steel cable trays and ladders up to 500mm				60 minutes	30 minutes
Electrical cables up to 80mm Ø, telecoms cables up to 21mm Ø and non sheathed wires up to 24mm Ø				120 minutes	
Electrical cables up to 21mm Ø, telecoms cables up to 21mm Ø and non sheathed wires up to 24mm Ø		50mm wide x 50mm long x 25mm deep		120 minutes	
Telecoms cables up to 21mm Ø, including bundles up to 85mm Ø		200mm wide x 200mm long x 25mm deep		90 minutes	45 minutes
Floors	The floor shall be a minimum of 150 mm thick. Masonry/concrete floors shall have a minimum density for concrete of 780kg/m <sup>3</sup> and for aerated concrete blocks of 600kg/m <sup>3</sup> . All floors shall have at least the same fire rating as that required for the closure system.				
Application Technique:	The hole for the pipe shall be drilled to suit the required annular space. The pipe shall then be positioned centrally within the hole and then the remaining annular space shall be in-filled to the required dimensions, with the FS709 sealant material both faces of the substrate. (see Nullifire Technical data sheet for full installation details)				
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 450 mm from the surface of the sealing system on both faces				



## CERTIFICATE No CF 5609

### TREMCO CPG UK LIMITED

#### Approval Matrix Floors – Nullifire FS709 Intumastic HP

Pipe Size and Type		FS709 Dimensions	Backing Material	Integrity		Insulation	
Steel pipe 89mm Ø, 5mm – 14.2mm wall thickness. Insulated with 2No. layers (20mm thick each) Armaflex Insulation 450mm long, local/sustained		25mm wide by 30mm depth Nullifire FS709 Intumastic HP flush to the upper face	Stone wool 64kg/m <sup>3</sup> 25mm depth	90 minutes		60 minutes	
Copper or steel pipe 159mm Ø, 2mm – 14.2mm wall thickness. Insulated with 25mm thick glass fibre min 80kg/m <sup>3</sup> (continued/sustained)		20mm wide by 25mm depth Nullifire FS709 Intumastic HP flush to the upper face	Stone wool 33kg/m <sup>3</sup> 100mm depth	120 minutes		60 minutes	
Copper or steel pipe 15mm Ø, 0.7mm – 14.2mm wall thickness. Insulated with 30mm thick glass fibre min 80kg/m <sup>3</sup> (continued/sustained)				180 minutes		20 minutes	
PE pipe 40mm Ø, 3.7mm wall thickness		120 minutes					
uPVC pipe 110mm Ø, 3.2mm wall thickness							
PP pipe 110mm Ø, 10.0mm wall thickness							
uPVC pipe 40mm Ø, 1.9mm wall thickness							
PP pipe 110mm Ø, 2.7-10.0mm wall thickness		60 minutes					
PP pipe 110mm Ø, 3.4mm wall thickness		90 minutes				60 minutes	
PE pipe 125mm Ø, 7.4-11.4mm wall thickness							
PP pipe 40mm Ø, 1.9mm wall thickness		240 minutes					
PE pipe 110mm Ø, 3.9mm wall thickness		240 minutes				180 minutes	
Floors	The floor shall be a minimum of 150 mm thick. Masonry/concrete floors shall have a minimum density for concrete of 780kg/m <sup>3</sup> and for aerated concrete blocks of 600kg/m <sup>3</sup> . All floors shall have at least the same fire rating as that required for the closure system.						
Application Technique:	The hole for the pipe shall be drilled to suit the required annular space. The pipe shall then be positioned centrally within the hole and then the remaining annular space shall be in-filled to the required dimensions, with the FS709 sealant material both faces of the substrate. (see Nullifire Technical data sheet for full installation details)						
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 450 mm from the surface of the sealing system on both faces						



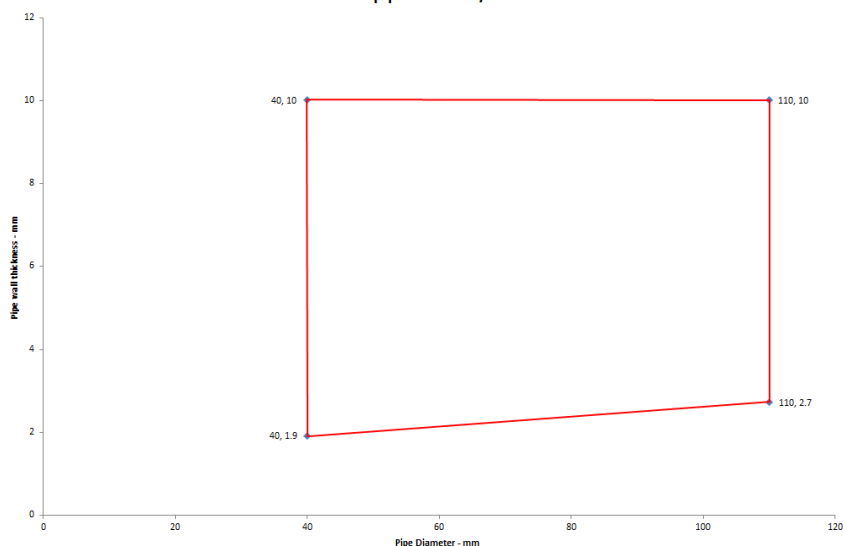
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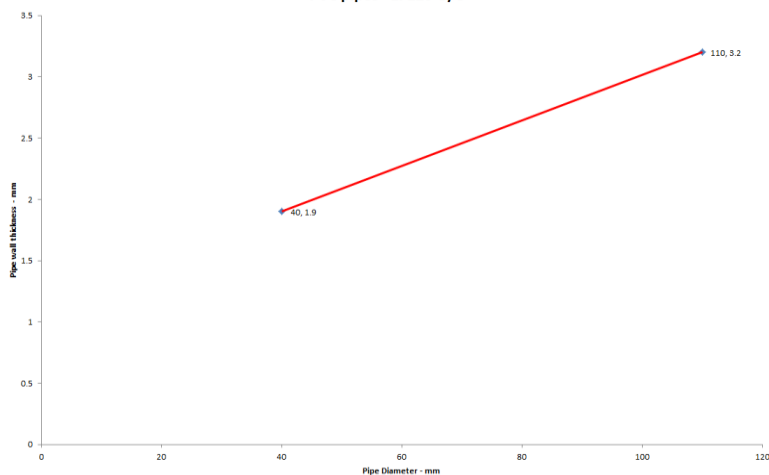
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PP pipes - EI 60 U/C



PVC pipes - EI 120 U/C





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