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## CERTIFICATE OF APPROVAL

### No CF 5035

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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

## FISCHERWERKE GMBH & CO. KG.

**Weinhalde 14-18, 72178 Waldachtal, Germany**  
**Tel: int+ 49 7443 120 Fax: int+ 49 7443 124222**

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

**FCPS – fischer Coated Panel  
 System/FPC – fischer Panel  
 Coating**

#### TECHNICAL SCHEDULE

**TS03 Penetration Sealing  
 Systems**

Signed and sealed for and on behalf of CERTIFIRE



Sir Ken Knight  
 Chairman - Management Council

Issued: 23<sup>rd</sup> January 2012  
 Revised: 3<sup>rd</sup> March 2015  
 Valid to: 10<sup>th</sup> April 2017

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## CERTIFICATE No CF 5035 FISCHERWERKE GMBH & CO. KG.

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### FCPS – fischer Coated Panel System/FPC – fischer Panel Coating

1. This approval relates to the use of FCPS – fischer Coated Panel System/FPC – fischer Panel Coating for the fire protection where services are penetrating walls. The detailed scope is given in the Approval Matrix included in this Certificate. This shows the thickness and acceptable services for FCPS – fischer Coated Panel System/FPC – fischer Panel Coating required to provide fire resistance periods in accordance with BS 476: Part 20: 1987 and EN1366-3 2009 of up to 240 minutes for differing services and wall constructions and up to 120 minutes for floor constructions. The scope of this certification complies with the guidelines stated in the ASFP Redbook: 3<sup>rd</sup> Edition for 3<sup>rd</sup> party certification schemes.
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:
  - 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
4. The stud partition drywalls, masonry or concrete walls 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, pipes and ducts 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 5035 FISCHERWERKE GMBH & CO. KG.

### FCPS – fischer Coated Panel System

#### Approval Matrix - Up To 120 Minute Walls

| <b>Product Name:</b>   | FCPS – fischer Coated Panel System/FPC – fischer Panel Coating   |                             |                                |
|--|--|-----------------------------|--------------------------------|
| <b>Coating / WFT:</b>  | FPC – fischer Panel Coating/1mm thick  |                             |                                |
| <b>Density:</b>  | 140 kg/m <sup>3</sup> minimum  |                             |                                |
| Barrier  | Service  | Integrity                   | Insulation                     |
| Single layer<br>(50 mm)  | Cable Ladder (340 mm wide by 100 mm high max.)   | 120 minutes                 | 60 minutes                     |
|  | Cables up to 26 mm diameter  | 120 minutes                 | N/A                            |
|  | Steel pipes up to 60 mm diameter   | 120 minutes                 | N/A                            |
|  | PVC pipes up to 110 mm diameter*   | 60 minutes                  | N/A                            |
|  | Steel ducts (445 mm wide by 445 mm high max.)  | 120 minutes                 | N/A                            |
| Double layer<br>(100 mm)   | Cable Ladder (340 mm wide by 100 mm high max.)   | 120 minutes                 | 60 minutes                     |
|  | Cables up to 26 mm diameter  | 120 minutes                 | 60 minutes                     |
|  | Steel pipes up to 60 mm diameter   | 120 minutes                 | 30 minutes                     |
|  | PVC pipes up to 110 mm diameter*   | 60 minutes                  | N/A                            |
|  | Steel ducts (445 mm wide by 445 mm high max.)  | 120 minutes                 | N/A                            |
| * PVC pipes must be used in conjunction with FiPW – fischer Intumescent Pipe Wraps over sealed with ablative coating FPC – fischer Panel Coating or FiAM – fischer Intumescent Acoustic Mastic |  |                             |                                |
| <b>Maximum aperture:</b>   | 2400 mm high by 1200 mm (120 minutes integrity performance)<br>2880 mm high by 1440 mm (60 minutes integrity performance)<br>Multiple apertures must be separated by a minimum of 400 mm in drywalls and 200 mm in concrete/masonry constructions.   |                             |                                |
| <b>Walls</b>   | The walls shall be a minimum of 130 mm thick.<br>The minimum density for the concrete or brick of the wall is 780kg/m <sup>3</sup> and for walls made of concrete blocks is 600kg/m <sup>3</sup> . Partition drywalls will comprise at least 2 layers of 15 mm thick Type 'F' gypsum boards on each side of minimum 70 mm by 32 mm steel studs.<br>All concrete, masonry or drywalls shall have at least the same fire rating as that required for the barrier.  |                             |                                |
| <b>Application Technique:</b>  | <b>Concrete/masonry walls:</b><br>Boards tightly friction fitted into the aperture at mid-depth of the wall. Board joints and the board to aperture junction is sealed with FPC – fischer Panel Coating or FiAM – fischer Intumescent Acoustic Mastic. Apertures for penetrating items are to be tightly fitting and be sealed with FPC – fischer Panel Coating or FiAM – fischer Intumescent Acoustic Mastic and must be separated by at least 400 mm.<br><b>Drywalls:</b><br>As above and additionally the aperture must be formed from track sections and be lined with two layers of 15 mm thick Type 'F' gypsum boards. |                             |                                |
| <b>Service Coat-Back :</b>   | Not required   | <b>U Value:</b>             | Not known                      |
| <b>Service Support Requirements:</b>   | Services should be rigidly supported via steel angles, hangars or channels, not further than 500 mm from the surface of the sealing system on both faces.  |                             |                                |
| <b>Resistance to Smoke:</b>  | Not evaluated by this approval   | <b>Weather Capability:</b>  | Not evaluated by this approval |
| <b>Acoustic Rating:</b>  | Not evaluated by this approval   | <b>Movement Capability:</b> | Not evaluated by this approval |

## CERTIFICATE No CF 5035 FISCHERWERKE GMBH & CO. KG.

### FCPS – fischer Coated Panel System

#### Approval Matrix - Up To 240 Minute Walls

|                                      |   |                             |                                |
|--------------------------------------|---|-----------------------------|--------------------------------|
| <b>Product Name:</b>                 | FCPS – fischer Coated Panel System/FPC – fischer Panel Coating  |                             |                                |
| <b>Coating / WFT:</b>                | FPC – fischer Panel Coating/1mm thick   |                             |                                |
| <b>Density:</b>                      | 140 kg/m <sup>3</sup> minimum   |                             |                                |
| <b>Barrier</b>                       | <b>Service</b>  | <b>Integrity</b>            | <b>Insulation</b>              |
| Single layer<br>(50 mm)              | Cable Ladder (340 mm wide by 100 mm high max.)  | 240 minutes                 | N/A                            |
|                                      | Cables up to 20 mm diameter   | 240 minutes                 | N/A                            |
|                                      | Areas of seal without services  | 240 minutes                 | 60 minutes                     |
| Double layer<br>(100 mm)             | Cable Ladder (340 mm wide by 100 mm high max.)  | 240 minutes                 | 60 minutes                     |
|                                      | Cables up to 20 mm diameter   | 240 minutes                 | 60 minutes                     |
|                                      | Areas of seal without services  | 240 minutes                 | 240 minutes                    |
| <b>Maximum aperture:</b>             | 1000 mm high and 660 mm wide subject to a maximum area of 0.6 m <sup>2</sup> . Multiple apertures must be separated by a minimum of 240 mm in concrete/masonry constructions.   |                             |                                |
| <b>Walls</b>                         | The walls shall be a minimum of 140 mm thick.<br>The minimum density for the concrete or brick of the wall is 780kg/m <sup>3</sup> and for walls made of concrete blocks is 600kg/m <sup>3</sup> .<br>All concrete or masonry walls shall have at least the same fire rating as that required for the barrier.  |                             |                                |
| <b>Application Technique:</b>        | <b>Concrete/masonry walls:</b><br>Boards tightly friction fitted into the aperture at mid-depth of the wall. Board joints and the board to aperture junction is sealed with FPC – fischer Panel Coating or FiAM – fischer Intumescent Acoustic Mastic. Apertures for penetrating items are to be tightly fitting and be sealed with FPC – fischer Panel Coating or FiAM – fischer Intumescent Acoustic Mastic and must be separated by at least 240 mm. |                             |                                |
| <b>Service Coat-Back :</b>           | Not required  | <b>U Value:</b>             | Not known                      |
| <b>Service Support Requirements:</b> | Services should be rigidly supported via steel angles, hangars or channels, not further than 500 mm from the surface of the sealing system on both faces.   |                             |                                |
| <b>Resistance to Smoke:</b>          | Not evaluated by this approval  | <b>Weather Capability:</b>  | Not evaluated by this approval |
| <b>Acoustic Rating:</b>              | Not evaluated by this approval  | <b>Movement Capability:</b> | Not evaluated by this approval |

## CERTIFICATE No CF 5035 FISCHERWERKE GMBH & CO. KG.

### FCPS – fischer Coated Panel System

#### Approval Matrix - Up To 120 Minute Floors

|                                      |   |                             |                                |
|--------------------------------------|---|-----------------------------|--------------------------------|
| <b>Product Name:</b>                 | FCPS – fischer Coated Panel System/FPC – fischer Panel Coating  |                             |                                |
| <b>Coating / WFT:</b>                | FPC – fischer Panel Coating/1 mm thick  |                             |                                |
| <b>Density:</b>                      | 140 kg/m <sup>3</sup> minimum   |                             |                                |
| <b>Barrier</b>                       | <b>Service</b>  | <b>Integrity</b>            | <b>Insulation</b>              |
| Double layer (100 mm)                | Cable Ladder (340 mm wide by 100 mm high max.)  | 120 minutes                 | 60 minutes                     |
|                                      | Cables up to 20 mm diameter   | 120 minutes                 | 60 minutes                     |
|                                      | Areas of seal without services  | 120 minutes                 | 120 minutes                    |
| <b>Maximum aperture:</b>             | 1200 mm long and 600 mm wide subject to a maximum area of 0.72 m <sup>2</sup> . Multiple apertures must be separated by a minimum of 240 mm in concrete constructions.  |                             |                                |
| <b>Floors</b>                        | The floors shall be a minimum of 115 mm thick.<br>The minimum density for the concrete floor is 780kg/m <sup>3</sup> .<br>All concrete floors shall have at least the same fire rating as that required for the barrier.  |                             |                                |
| <b>Application Technique:</b>        | <b>Concrete floors:</b><br>Boards cut to size (not jointed) and tightly friction fitted into the aperture at mid-depth of the wall. Board to aperture junction is sealed with FPC – fischer Panel Coating or FiAM – fischer Intumescent Acoustic Mastic. Apertures for penetrating items are to be tightly fitting and be sealed with FPC – fischer Panel Coating or FiAM – fischer Intumescent Acoustic Mastic and must be separated by at least 240 mm. |                             |                                |
| <b>Service Coat-Back :</b>           | Not required  | <b>U Value:</b>             | Not known                      |
| <b>Service Support Requirements:</b> | Services should be rigidly supported via steel angles, hangars or channels, not further than 500 mm from the surface of the sealing system on both faces.   |                             |                                |
| <b>Resistance to Smoke:</b>          | Not evaluated by this approval  | <b>Weather Capability:</b>  | Not evaluated by this approval |
| <b>Acoustic Rating:</b>              | Not evaluated by this approval  | <b>Movement Capability:</b> | Not evaluated by this approval |

## CERTIFICATE No CF 5035 FISCHERWERKE GMBH & CO. KG.

### FCPS – fischer Coated Panel System

#### Approval Matrix BSEN 1366-3: 2009 - Up To 60 Minute Walls

|   |   |                  |                   |
|---|---|------------------|-------------------|
| <b>Product Name:</b>  | FCPS – fischer Coated Panel System/FPC – fischer Panel Coating  |                  |                   |
| <b>Coating / DFT:</b>   | FPC – fischer Panel Coating/1 mm thick  |                  |                   |
| <b>Density:</b>   | 140 kg/m <sup>3</sup> minimum   |                  |                   |
| <b>Barrier</b>  | <b>Service</b>  | <b>Integrity</b> | <b>Insulation</b> |
| Single layer<br>(50 & 60<br>mm)   | <sup>1</sup> Cable Trays and Ladder   | 60               | 60                |
|   | <sup>1</sup> Cables up to 80 mm diameter  | 60               | 60                |
|   | <sup>1</sup> 100mm diameter bundle telecommunication cables type F  | 60               | 60                |
|   | <sup>1</sup> Unsheathed electrical cables up to 24mm diameter   | 60               | 60                |
|   | <sup>*</sup> Steel or Copper pipes 108mm diameter 1.5mm-14.2mm wall <sup>1</sup>  | 60               | 45                |
| <sup>1</sup> Insulated with 6mm fischer Thermal Defense Wrap 300mm either side of the seal                      |   |                  |                   |
| <sup>2</sup> Insulated with continuous interrupted 40mm thick stone wool insulation (min 140kg.m <sup>3</sup> ) |   |                  |                   |
| <b>Maximum aperture:</b>  | 600mm high by 600mm. Multiple apertures must be separated by a minimum of 400 mm in drywalls and 240 mm in concrete/masonry constructions.  |                  |                   |
| <b>Walls</b>  | The walls shall be a minimum of 100 mm thick.<br>The minimum density for the concrete or brick of the wall is 780kg/m <sup>3</sup> and for walls made of concrete blocks is 600kg/m <sup>3</sup> . Partition drywalls will comprise at least 2 layers of 12.5 mm thick Type 'F' gypsum boards on each side of minimum 500 mm by 32 mm steel studs. All concrete, masonry or drywalls shall have at least the same fire rating as that required for the barrier.                                     |                  |                   |
| <b>Application Technique:</b>   | <p><b>Concrete/masonry walls:</b><br/>Boards tightly friction fitted into the aperture at mid-depth of the wall. Board joints and the board to aperture junction is sealed with FPC – fischer Panel Coating or FiAM – fischer Intumescent Acoustic Mastic Apertures for penetrating items are to be tightly fitting and be sealed with FPC – fischer Panel Coating or FiAM – fischer Intumescent Acoustic Mastic and must be separated by at least 400 mm.</p> <p><b>Drywalls:</b><br/>As above</p> |                  |                   |
| <b>Service Coat-Back :</b>  | Not required  | <b>U Value:</b>  | Not known         |
| <b>Service Support Requirements:</b>  | Services should be rigidly supported via steel angles, hangars or channels, not further than 250 mm from the surface of the sealing system on both faces.   |                  |                   |

## CERTIFICATE No CF 5035 FISCHERWERKE GMBH & CO. KG.

### FCPS – fischer Coated Panel System

#### Approval Matrix BSEN 1366-3: 2009 - Up To 90 Minute Walls

| <b>Product Name:</b>  | FCPS – fischer Coated Panel System/FPC – fischer Panel Coating  |                 |            |
|---|---|-----------------|------------|
| <b>Coating / DFT:</b>   | FPC – fischer Panel Coating/1 mm thick  |                 |            |
| <b>Density:</b>   | 140 kg/m <sup>3</sup> minimum   |                 |            |
| Barrier   | Service   | Integrity       | Insulation |
| Double layer (50 & 60 mm)   | Cable Trays and Ladder  | 60              | 60         |
|   | Cables up to 21 mm diameter   | 60              | 60         |
|   | Cables 22mm – 80 mm diameter  | 60              | 45         |
|   | 100mm diameter bundle telecommunication cables type F   | 60              | 60         |
|   | Unsheathed electrical cables up to 17mm diameter  | 60              | 30         |
|   | Unsheathed electrical cables 18mm-24mm diameter   | 60              | 15         |
|   | Steel or copper conduits up to 16mm diameter  | 60              | 15         |
|   | PVC conduits up to 16mm diameter  | 60              | 60         |
|   | *Steel or Copper pipes 40mm diameter 1.5mm-14.2mm wall <sup>1</sup>   | 90              | 60         |
|   | *Steel or Copper pipes 40mm – 159mm diameter 2.3mm-14.2mm wall <sup>2</sup>   | 60              | 60         |
| <sup>1</sup> Insulated with 20mm thick continuous sustained foil faced glass wool insulation (min 80kg.m <sup>3</sup> )<br><sup>2</sup> Insulated with 30mm thick continuous sustained foil faced glass wool insulation (min 80kg.m <sup>3</sup> )<br>*Sealed with 15mm deep x 15mm wide annulus fischer FiGM PFS + Intumescent Graphite Mastic to both faces |   |                 |            |
| <b>Maximum aperture:</b>  | 1200mm high by 730 mm. Multiple apertures must be separated by a minimum of 400 mm in drywalls and 240 mm in concrete/masonry constructions.  |                 |            |
| <b>Walls</b>  | The walls shall be a minimum of 100 mm thick.<br>The minimum density for the concrete or brick of the wall is 780kg/m <sup>3</sup> and for walls made of concrete blocks is 600kg/m <sup>3</sup> . Partition drywalls will comprise at least 2 layers of 12.5 mm thick Type 'F' gypsum boards on each side of minimum 500 mm by 32 mm steel studs. All concrete, masonry or drywalls shall have at least the same fire rating as that required for the barrier.                         |                 |            |
| <b>Application Technique:</b>   | <b>Concrete/masonry walls:</b><br>Boards tightly friction fitted into the aperture at mid-depth of the wall. Board joints and the board to aperture junction is sealed with FPC – fischer Panel Coating or FiAM – fischer Intumescent Acoustic Mastic. Apertures for penetrating items are to be tightly fitting and be sealed with FPC – fischer Panel Coating or FiAM – fischer Intumescent Acoustic Mastic and must be separated by at least 400 mm.<br><b>Drywalls:</b><br>As above |                 |            |
| <b>Service Coat-Back :</b>  | Not required  | <b>U Value:</b> | Not known  |
| <b>Service Support Requirements:</b>  | Services should be rigidly supported via steel angles, hangars or channels, not further than 250 mm from the surface of the sealing system on both faces.   |                 |            |

## CERTIFICATE No CF 5035 FISCHERWERKE GMBH & CO. KG.

### FCPS – fischer Coated Panel System

#### Approval Matrix BSEN 1366-3: 2009 - Up To 120 Minute Walls

| <b>Product Name:</b>  | FCPS – fischer Coated Panel System/FPC – fischer Panel Coating  |                 |            |
|---|---|-----------------|------------|
| <b>Coating / DFT:</b>   | FPC – fischer Panel Coating/1 mm thick  |                 |            |
| <b>Density:</b>   | 140 kg/m <sup>3</sup> minimum   |                 |            |
| Barrier   | Service   | Integrity       | Insulation |
| Double<br>layer (50 &<br>60 mm)   | Cable Trays and Ladder  | 120             | 120        |
|   | Cables up to 21 mm diameter   | 120             | 120        |
|   | Cables 22mm – 80 mm diameter  | 120             | 90         |
|   | 100mm diameter bundle telecommunication cables<br>type F  | 120             | 120        |
|   | Unsheathed electrical cables up to 24mm diameter  | 120             | 120        |
| All services insulated with fischer P40/40 stone wool 40mm thick (40kg/m <sup>3</sup> ) 200mm either side of the seal |   |                 |            |
| <b>Maximum aperture:</b>  | 1200mm high by 730 mm. Multiple apertures must be separated by a minimum 240 mm in concrete/masonry constructions.  |                 |            |
| <b>Walls</b>  | The walls shall be a minimum of 100 mm thick.<br>The minimum density for the concrete or brick of the wall is 780kg/m <sup>3</sup> and for walls made of concrete blocks is 600kg/m <sup>3</sup> .<br>All concrete, masonry walls shall have at least the same fire rating as that required for the barrier.  |                 |            |
| <b>Application Technique:</b>   | <b>Concrete/masonry walls:</b><br>Boards tightly friction fitted into the aperture at mid-depth of the wall. Board joints and the board to aperture junction is sealed with FPC – fischer Panel Coating or FiAM – fischer Intumescent Acoustic Mastic. Apertures for penetrating items are to be tightly fitting and be sealed with FPC – fischer Panel Coating or FiAM – fischer Intumescent Acoustic Mastic and must be separated by at least 240 mm. |                 |            |
| <b>Service Coat-Back :</b>  | Not required  | <b>U Value:</b> | Not known  |
| <b>Service Support Requirements:</b>  | Services should be rigidly supported via steel angles, hangars or channels, not further than 250 mm from the surface of the sealing system on both faces.   |                 |            |



## CERTIFICATE No CF 5035 FISCHERWERKE GMBH & CO. KG.

### FCPS – fischer Coated Panel System

#### Approval Matrix BSEN 1366-3: 2009 - Up To 120 Minute Walls

| <b>Product Name:</b>  | FCPS – fischer Coated Panel System/FPC – fischer Panel Coating  |                 |            |
|---|---|-----------------|------------|
| <b>Coating / DFT:</b>   | FPC – fischer Panel Coating/1 mm thick  |                 |            |
| <b>Density:</b>   | 16.0 kg/m <sup>3</sup> minimum  |                 |            |
| Barrier   | Service   | Integrity       | Insulation |
| Double layer (60 mm)  | Cable Trays and Ladder  | 120             | 120        |
|   | Cables up to 21 mm diameter   | 120             | 120        |
|   | Cables 22mm – 80 mm diameter  | 120             | 90         |
|   | 100mm diameter bundle telecommunication cables type F   | 120             | 120        |
|   | Unsheathed electrical cables up to 24mm diameter  | 120             | 120        |
| All services insulated with fischer P40/40 stone wool 40mm thick (40kg/m <sup>3</sup> ) 200mm either side of the seal |   |                 |            |
| <b>Maximum aperture:</b>  | 1200mm high by 730 mm. Multiple apertures must be separated by a minimum 240 mm in concrete/masonry constructions.  |                 |            |
| <b>Walls</b>  | The walls shall be a minimum of 100 mm thick.<br>The minimum density for the concrete or brick of the wall is 780kg/m <sup>3</sup> and for walls made of concrete blocks is 600kg/m <sup>3</sup> . All concrete, masonry walls shall have at least the same fire rating as that required for the barrier.   |                 |            |
| <b>Application Technique:</b>   | <b>Concrete/masonry walls:</b><br>Boards tightly friction fitted into the aperture at mid-depth of the wall. Board joints and the board to aperture junction is sealed with FPC – fischer Panel Coating or FiAM – fischer Intumescent Acoustic Mastic. Apertures for penetrating items are to be tightly fitting and be sealed with FPC – fischer Panel Coating or FiAM – fischer Intumescent Acoustic Mastic and must be separated by at least 240 mm. |                 |            |
| <b>Service Coat-Back :</b>  | Not required  | <b>U Value:</b> | Not known  |
| <b>Service Support Requirements:</b>  | Services should be rigidly supported via steel angles, hangars or channels, not further than 250 mm from the surface of the sealing system on both faces.   |                 |            |

**CERTIFICATE No CF 5035  
FISCHERWERKE GMBH & CO. KG.**

**FCPS – fischer Coated Panel System**

|  |                                     |   |   |                             |                                |
|--|-------------------------------------|---|---|-----------------------------|--------------------------------|
| <b>Air Permeability:<br/>EN1026</b>                | Pressure (Pa)                       | Positive pressure (m <sup>3</sup> /h/m <sup>2</sup> ) | Negative pressure (m <sup>3</sup> /h/m <sup>2</sup> ) | <b>Weather Capability:</b>  | Not evaluated by this approval |
|  | 50                                  | 0.8   | 1.5   |                             |                                |
|  | 100                                 | 1.4   | 1.8   |                             |                                |
| <b>Acoustic Rating:<br/>BS EN ISO 10140-2:2010</b> | <b>1 x 50mm thick</b>               |   |   | <b>Movement Capability:</b> | Not evaluated by this approval |
|  | R <sub>w</sub> (C;C <sub>tr</sub> ) |   | 22(0;-3)dB  |                             |                                |
|  | <b>D<sub>new</sub>(C;Ctr)</b>       |   | 32(0;3)dB   |                             |                                |
|  | <b>2 x 50mm thick</b>               |   |   |                             |                                |
|  | R <sub>w</sub> (C;C <sub>tr</sub> ) |   | 28(0;-3)dB  |                             |                                |
| <b>D<sub>new</sub>(C;Ctr)</b>                      |                                     | 38(0;3)dB   |   |                             |                                |

**Further Information**

Further information regarding the details contained in this data sheet may be obtained from fischerwerke GmbH & Co. KG. (Tel: int+ 49 7443 120).

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))