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## CERTIFICATE OF APPROVAL

### No CF 656

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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

## HILTI AG

**BU Chemicals, Feldkircherstrasse 100, Postfach 333, 9494-Schaan,  
Principality of Liechtenstein**

**Tel: + 49 8191 90 6393 Fax: + 49 8191 90 6330**

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

**CP637 Firestop Mortar, CP638  
High Strength Structural  
Grade Firestop Mortar**

#### TECHNICAL SCHEDULE

**TS03 Penetration Sealing  
Systems**

Signed and sealed for and on behalf of CERTIFIRE

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

Paul Duggan  
Certification Manager

Issued: 30<sup>th</sup> November 2009  
Reissued: 24<sup>th</sup> April 2024  
Valid to: 27<sup>th</sup> February 2025





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## CERTIFICATE No CF 656

### HILTI AG

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#### CP637 Firestop Mortar & CP638 High Strength Structural Grade Firestop Mortar

1. This approval relates to the use of CP637 Firestop Mortar & CP638 High Strength Structural Grade Firestop Mortar for the fire protection where there are services penetrating walls & floors. The detailed scope is given in the Approval Matrix included in this Certificate. This shows the thickness and acceptable services for the mortar seals 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 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.
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
  - iii) Inspection and surveillance of factory production control
  - iv) Certification of Quality Management Systems to ISO 9001:2008
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 200 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, steel pipes and dampers, 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.

## CERTIFICATE No CF 656 HILTI AG

### CP637 Firestop Mortar

#### Approval Matrix - Up To 300 Minute Floors

<b>Product Name:</b>		CP637 Firestop Mortar			
Backing type/depth (min.)	Mortar Depth (min.)	Service	Integrity	Insulation	
Rocksil/ 50 mm	50 mm	Steel cable tray (225 mm wide by 30 mm high max.)	60 minutes	30 minutes	
		Copper cored PVC sheathed cables up to 55 mm diameter. Bundles permitted for up to 35 mm diameter			
		Steel pipes up to 25 mm dia./1.5 mm wall	300 minutes	60 minutes	
		Steel pipes up to 108 mm dia./6 mm wall		30 minutes	
	Free area of seal (area without services)*	180 minutes			
	100 mm	100 mm	Steel cable tray (225 mm wide by 30 mm high max.)	90 minutes	60 minutes
			Copper cored PVC sheathed cables up to 55 mm diameter. Bundles permitted for up to 35 mm diameter		
			Steel pipes up to 25 mm dia./1.5 mm wall	300 minutes	120 minutes
			Steel pipes up to 61 mm dia./5 m wall		60 minutes
			Steel pipes up to 108 mm dia./6 mm wall		30 minutes
Blank seals/area without services			300 minutes		
None	None	Steel cable tray (225 mm wide by 30 mm high max.)	240 minutes	30 minutes	
		Copper cored PVC sheathed cables up to 32 mm diameter.		60 minutes	
		Bundles of copper cored PVC sheathed cables up to 12 mm diameter.	30 minutes	No insulation	
		Steel pipes up to 25 mm dia./1.5 mm wall			
		Steel pipes up to 42 mm dia./4 mm wall			
		Steel pipes up to 108 mm dia./6 mm wall			
<b>Maximum aperture:</b>		600 mm long by 400 mm wide at 50 mm thick – Mineral wool shall be left in position for seal depths of less than 100 mm 700 mm wide by unlimited length at 100 mm thick Multiple apertures must be separated by a minimum of 200 mm			
<b>Floors</b>		The floors shall be concrete/reinforced aerated concrete minimum of 200 mm thick and 780kg/m <sup>3</sup> density. The floor shall have at least the same fire rating as that required of the penetration seal.			
<b>Application Technique:</b>		A single slab of the 140 kg/m <sup>3</sup> Rocksil stone wool material is compressed into the aperture and the premixed CP637 Firestop Mortar is then infilled into the aperture, around the services to the required thickness (the seal may require supporting at this stage). Services should not be added after installation. Depending upon the required scope of approval (as shown above), the Rocksil slab may then be removed.			
<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 70 mm and 360 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>		47 dB (contact Hilti for full details)	<b>Movement Capability:</b>	Not evaluated by this approval	



**CERTIFICATE No CF 656**  
**HILTI AG**

**CP638 High Strength Structural Grade Firestop Mortar**

**Approval Matrix - Up To 240 Minute Floors**

<b>Product Name:</b>		<b>CP638 High Strength Structural Grade Firestop Mortar</b>		
<b>Backing type/depth (min.)</b>	<b>Mortar Depth (min.)</b>	<b>Service</b>	<b>Integrity</b>	<b>Insulation</b>
Rocksil/ 40 mm	90 mm	Steel Damper & HEVAC frame 500 x 400 mm	240 minutes	No insulation
None	100 mm	Steel cable tray (225 mm wide by 30 mm high max.)	240 minutes	30 minutes
		Copper cored PVC sheathed cables up to 35 mm diameter.		30 minutes
		Bundles of copper cored PVC sheathed cables up to 19 mm diameter.	60 minutes	30 minutes
		Steel pipes up to 25 mm dia./1.5 mm wall	240 minutes	90 minutes
		Steel pipes up to 42 mm dia./4 mm wall		60 minutes
		Steel pipes up to 108 mm dia./6 mm wall		30 minutes
		Blank seals/area without services		180 minutes
Loadbearing data is also available but is not the subject of this certificate, contact Hilti for further details				
<b>Maximum aperture:</b>	1100 mm long by 1100 mm wide at 90 mm depth 1600 mm wide by unlimited length at 100 mm depth Multiple apertures must be separated by a minimum of 200 mm			
<b>Floors</b>	The floors shall be concrete/reinforced aerated concrete minimum of 200 mm thick and 780kg/m <sup>3</sup> density. The floor shall have at least the same fire rating as that required of the penetration seal.			
<b>Application Technique:</b>	A single slab of the 140 kg/m <sup>3</sup> Rocksil stone wool material is compressed into the aperture and the premixed CP638 Firestop Mortar is then infilled into the aperture, around the services to the required thickness (the seal may require supporting at this stage). Services should not be added after installation. Depending upon the required scope of approval (as shown above), the Rocksil slab may then be removed.			
<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, hangers or channels, not further than 70 mm and 360 mm from the surface of the sealing system on both faces. Dampers should be supported by a 'HEVAC' frame.			
<b>Resistance to Smoke:</b>	Not evaluated by this approval	<b>Weather Capability:</b>	Not evaluated by this approval	
<b>Acoustic Rating:</b>	50 dB (contact Hilti for full details)	<b>Movement Capability:</b>	Not evaluated by this approval	



**CERTIFICATE No CF 656**  
**HILTI AG**

**CP638 High Strength Structural Grade Firestop Mortar**

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

<b>Product Name:</b>		<b>CP638 High Strength Structural Grade Firestop Mortar</b>		
<b>Backing type/depth (min.)</b>	<b>Mortar Depth (min.)</b>	<b>Service</b>	<b>Integrity</b>	<b>Insulation</b>
Rocksil/ 40 mm	90 mm	Steel Damper & HEVAC frame 600 x 575 mm	240 minutes	No insulation
<b>Maximum aperture:</b>		780 mm high by 780 mm wide		
<b>Walls</b>		The walls shall be concrete block/brick minimum of 140 mm thick and 780kg/m <sup>3</sup> density. The floor shall have at least the same fire rating as that required of the penetration seal.		
<b>Application Technique:</b>		A single slab of the 140 kg/m <sup>3</sup> Rocksil stone wool material is compressed into the aperture and the premixed CP638 Firestop Mortar is then infilled into the aperture, around the services to the required thickness (the seal may require supporting at this stage). Services should not be added after installation.		
<b>Service Coat-Back :</b>		Not required	<b>U Value:</b>	Not known
<b>Service Support Requirements:</b>		Dampers should be supported by a 'HEVAC' frame.		
<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