UL-AU CERTIFICATE

Certificate No. UL-AU-230006

Page 1/22

 Date of Issue
 2023-11-01

 Date of Revision
 2025-02-28

Certificate Holder Hilti (Aust.) Pty. Ltd

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Manufacturer Hilti AG,

Feldkircherstrasse 100

FL-9494 Schaan Liechtenstein

Internet: www.hilti.com

Production Sites (Factory) Hilti Plant 4a

Hilti Plant 5a

Hilti Plant 14

Certified Product Description Firestopping Cast In Device

Model(s) Hilti Firestop Cast In Device CP 680-P/PX

Trade Name or Trademark Hilti Firestop Cast In Device CP 680-P/PX

Rating Information Refer to Appendix A

Standard tested to AS 1530.4:2014 and AS 4072.1:2005

Test Report References See page 39 and 40

Listing Category and File Ref RS5417

Additional Information and Conditions See page 2

Expiry date 2033-11-01

Stuart Foster Certification Officer



www.jas-anz.org/register

Certification Body

This is to certify that representative samples of the Product described herein ("Certified Product") have been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the UL-AU Mark Scheme requirements and JAS-ANZ accreditation requirements. The designated Certificate their is entitled to use the UL-AU Mark for the Certified Product manufactured at the production site(s) identified above, in accordance with the UL-AU Mark Scheme Service Agreement.

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Only those Products bearing the UL-AU Mark for Australia should be considered as being covered by UL's UL-AU Mark Service. This certificate shall remain valid through to the expiration date, unless terminated earlier in accordance with the Service Agreement including without limitation if the Standard identified on this Certificate is amended or withdrawn prior to the expiration date.

This Certificate remains the property of UL International New Zealand Ltd.

If the client provides copies of the certification documents to others, the documents shall be reproduced in their entirety.

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Certificate No. UL-AU-230006

Page 2/22

Date of Revision 2025-02-28

Additional Information:

This certificate is evidence that prototypes of the nominated products and their configurations as detailed in Appendix A conform to the following parameters:

- 1. Have been tested to AS 1530.4:2014 and AS 4072.1:2005 or an equivalent or more severe test and the Fire Resistance Level (FRL) nominated in Appendix A was achieved by the prototype for each nominated assembly of service penetration, building element and protection method configuration, without the assistance of an active fire suppression system.
- 2. Test results are detailed in a confidential test report that may be available from the certificate holder upon request. The information regarding the test parameters is included in the confidential technical file.
 - (i) the method and conditions of the test;
 - (ii) form of construction of the tested prototype; and
 - (iii) that restraint complied with AS 1530.4.
- 3. Testing was conducted at multiple locations by suitably accredited laboratories that are accredited by a signatory to the International Accreditation Cooperation Mutual Recognition Arrangement (ILAC-MRA) as recognised by NATA who is also a signatory body to this Agreement. The data has been reviewed by UL against the relevant to accreditation schedules.

Certification Body



Certificate No. UL-AU-230006

Page 3/22

Date of Revision 2025-02-28

The UL Enhanced Mark shall appear on certified products only and shall be used only in accordance with the UL-AU Mark Scheme Service Terms Minimum size is not specified, as long as the Mark is legible. The following are **examples** of the format.





The file number that replaces E123456 and NC12345 in the above examples is; RS5417

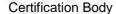
The following Supplementary Information shall be placed adjacent to the Certification Mark; Firestopping – Fire Collars and Cassettes
AS 1530.4

The UL Enhanced Mark may appear on a label, nameplate, or may be cast, stamped or molded into the product. When appearing on a label or nameplate, the Manufacturer's name or trademark along with a model number are also required on that same label or nameplate. If cast, stamped or molded, the Manufacturer's name or trademark and model number shall also appear elsewhere on the product.

All content shall be in accordance with the details provided on this Certificate.

PROCUREMENT

The Production site may reproduce the Mark or obtain it from a UL authorized supplier. The list of UL authorized suppliers can be found on UL's online directory at www.ul.com.





Certificate No. UL-AU-230006

Page 4/22

Date of Revision 2025-02-28

Appendix A

Conforming product configurations to achieve nominated FRL's

A.1 Specific Parts for Hilti Firestop CP 680-P/PX:

Technical description of product:

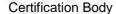
Hilti Firestop Cast-in Device CP 680-P/PX is a pipe closure device that is cast into rigid floors.

Hilti Firestop Cast-in Device CP 680-P/PX consists of a plastic housing, an intumescent inlay and rubber seal for the purpose of smoke and draft stop, air or water tightness and airborne sound insulation.

Hilti Firestop Cast-in Device CP 680-P/PX is supplied in several sizes – see table below.

Pipe sealing size	For plastic pipes with nominal outside diameter range (mm)	For metal pipes (including copper, Ferrous or Brass)		
CP 680-P/PX 2"	32 - 63	Up to DN50		
CP 680-P/PX 3"	50 - 75	DN25 to DN80		
CP 680-P/PX 4"	90 - 110	DN50 to DN100		
CP 680-P/PX 6"	125 - 160	DN100 to DN150		

The assigned FRL in Appendix applicable to copper, brass and ferrous (steel and iron) also applies to other metal pipes with lower heat conductivity than the unalloyed steel and a melting point of minimum 1100 °C, e.g. low alloyed steel, cast iron, stainless steel, Ni alloys, galvanized steel.





Certificate No. UL-AU-230006

Page 5/22

Date of Revision 2025-02-28

Intended use:

Hilti Firestop Cast-in Device CP 680-P/PX is intended to form a part of a penetration seal, which is used to maintain the fire resistance of a separating element (rigid floor) when and where services with plastic, composite pipes and insulated metal pipes as single penetrations pass through.

Annex 2 gives details of penetration for which fire resistance tests were carried out. This certificate covers assemblies installed in accordance with the provisions given in Annex 2.

For details on diameters, wall thicknesses, pipe materials, pipe insulation and pipe standards see Annex 2.

Pipes shall be perpendicular to the seal surface. The pipe penetration seal is intended for in piping systems for non-combustible liquids and fluids, for pneumatic dispatch systems and for pipes in centralised vacuum-cleaning systems.

The assessment does not cover the avoidance of destruction of the seal or of the abutting building element(s) by forces caused by temperature changes in case of fire. This has to be considered when designing the piping system.

A.1.1 DESCRIPTION OF THE PRODUCT AND ANCILLARY PRODUCT(S)

Hilti Firestop Cast-in Device CP 680-P/PX

The Cast-in device consists of a plastic housing, an inlay with different number of intumescent layers, and a rubber gasket.

In case of greater floor thicknesses (>150mm) the Cast-in device length can be increased through an extension tube.

Technical product literature:

Installation instruction Hilti Firestop Cast-in Device CP 680-P/PX (according to Annex 3).

Abbreviation	Description
A ₁	Hilti Firestop Cast in CP 680-P/PX
С	Plastic Pipe
D	Pipe insulation
dc	Pipe diameter (nominal outside diameter)
E	Building element (wall, floor)
S 1	Minimum distance between single penetration seals
tc	Pipe wall thickness
t_D	Insulation thickness
te	Thickness of the building element
L _D	Length of Insulation

Certification Body



Certificate No. UL-AU-230006

Page 6/22

Date of Revision 2025-02-28

A.2 RESISTANCE TO FIRE CLASSIFICATION OF PENETRATION SEALS MADE OF HILTI FIRESTOP Cast-in Device CP 680-P/PX

Overview intended use of pipes¹ and reference to relevant section

Application	Pipe	Hilti collar	Diameter	Total pipe wall	Hilti collar configuration	FRL	Rigid floor ≥ 550 kg/m ³
- FF	material	size	(mm)	thickness (mm)		7.12	Details (see section)
	N/m 3	111	40	2	1 N/11 N/11-N/	111 \/	U_)(U
	1 N. U. 1	2"	50	2.2	Cast in collar sleeve can be	-/240/240	
	レノヘニレノ		65	2.7	cut or remain uncut		
Stack/straight pipe	uPVC	3"	80	2.9	- Cut of Terriain ariout		A.2.2.1
		4"	100	3.5			
	1 M U1 1	6"	150	5	Cast in collar sleeve shall remain uncut at all times	$U_1 \times U_2$	U i Y U
7/ 5/	15/1/	/ P	40	2	F/\ F/\ F/		-//
		2"	50	2.2	Cast in collar sleeve can be		A.2.2.2
	7.7.	/	65	2.7	cut or remain uncut	1. 1	
Elbow inside collar	uPVC	3"	80	2.9	Cut of femalif unout	-/240/240	
	レハーレ	4"	100	3.5	LVALVALV		
	<	6"	150	5	Cast in collar sleeve shall remain uncut at all times		
3711.3711	1/11 3	2"	40	1.8	1. 37m 37m 37	111 37	1 3/1
Ctook/otroight ning	PP-MD	2	50	1.8	Cast in collar sleeve can be	-/120/120	A.2.2.3
Stack/straight pipe	PP-IVID	3"	75	1.9	cut or remain uncut	-/120/120	A.Z.Z.3
		4"	110	2.7			
	VIII	2"	40-60	3	Cast in collar sleeve can be		A.2.2.4
		3"	70	3	cut or remain uncut	111 M	
Stack/straight pipe	HDPE	4"	90, 100	3.5, 4.3	cut of remain uncut	-/240/240	
	<	6"	125-150	4.9-6.2	Cast in collar sleeve shall remain uncut at all times		\leq
3/11.3/11	- W/III- 1	2"	40-60	3	L M/11L M/11L M		1 3./11
		3"	70	3	Cast in collar sleeve can be	UIN	
Elbow inside collar	HDPE	4"	90. 100	3.5, 4.3	cut or remain uncut	-/240/240	A.2.2.5
	$\leq \times$	6"	125-150	4.9-6.2	Cast in collar sleeve shall remain uncut at all times	X	K 2
XULXU	D) (0.00	4"	100	3.5	Cast in collar sleeve can be cut or remain uncut	10.10.10.10	4.000
Elbow inside collar	uPVC-SC	6"	150	5	Cast in collar sleeve shall remain uncut at all times	-/240/240	A.2.2.6
Ote all fatorials to a in	DV0.00	4"	100	3.5	Cast in collar sleeve can be cut or remain uncut	10.40/0.40	4.007
Stack/straight pipe	uPVC-SC	6"	150	5	Cast in collar sleeve shall remain uncut at all times	-/240/240	A.2.2.7

Certification Body



¹ According to technical literature of pipe manufacturers

Certificate No. UL-AU-230006

Page 7/22

Date of Revision 2025-02-28

Metal pipe material	Collar size*	Pipe nominal size, DN	Min. pipe wall thickness	Sealant depth (mm)	Backing config.	Pipe insulation config.	FRL	Rigid floor ≥ 550 kg/m³
	$\leq >$	(mm) (mm)		$\times \times$		≤ 2	Details (see section)	
C	2" or 3"	23-65	0.91	30	PEF backing rod,	None	-/240/-	In William
Copper, ferrous or	3", 4" or 6"	80-100	1.22					アレハー
brass		100-125	1.42		CF 116 or mineral			A.2.2.8.1
Copper, ferrous (steel and iron)	6"	125-150	1.63		rock wool		-/120/-	13/ii

Metal pipe material	Collar size*	Pipe nominal	Min. pipe wall	Sealant depth	Backing config.	Pipe insulation config.	Insulation length	FRL	Rigid floor ≥ 550 kg/m ³
i)(Ui)(I	YU	size, DN (mm)	thickness (mm)	(mm)	Ur Y/Ur Y	TU: Y	Ur XI	Details (see section)	
Copper, ferrous or	2" or 3"	23-65	0.91		PEF backing rod, CF 116, CF-F 750 GV, CF 126 or mineral rock wool	Mineral stone/rock wool insulation or	365	-/240/120	A.2.2.8.2
brass 3",	3", 4"	80-100	1.22	30			500		
: W III :	or 6"	100-125	1.42				600		
Copper, ferrous (steel and iron)	6"	125-150	1.63	30			725	-/120/120	

Pipe config.	Pipe material	Collar size*	Pipe nominal size, DN (mm)	Hilti collar config.	FRL	Rigid floor ≥ 550 kg/m ³
$\Delta m \Delta r$	n-Vn-	VIII	in Vii Vi	A/II-A/II-A	m V	Details (see section)
	UPVC, UPVC-SC,	2", 3", 4"	All approved systems up to DN 110	Cast in collar sleeve can be cut or remain uncut	-/240/240	PC
	HDPE	6''	All approved systems up to DN 160	Cast in collar sleeve shall remain uncut at all times	-/240/240	1/1
	PP-MD	2", 3", 4"	All approved systems up to DN 110	Cast in collar sleeve can be cut or remain uncut	-/120/120	rL)(u
Multiple collars connected in a	Copper, ferrous or brass	2", 3", 4", 6"	All approved systems up to DN 125	Cast in collar sleeve can be cut or remain uncut with	-/240/120	A.2.2.9
row	Copper, ferrous (steel or iron)	6''	All approved systems up to DN 150	insulation	-/120/120	
C	Copper, ferrous or brass	2", 3", 4", 6"	All approved systems up to DN 125	Cast in collar sleeve can be	-/240/-	
	Copper, ferrous (steel or iron)	6''	All approved systems up to DN 150	cut or remain uncut without insulation	-/120/-	

Certification Body



Certificate No. UL-AU-230006

Page 8/22

Date of Revision 2025-02-28

A.2.1 General information

A.2.1.1 Rigid floor

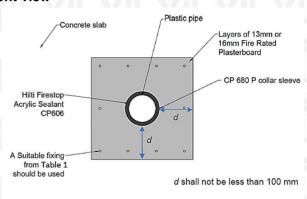
The floor must have a minimum thickness of 150 mm and comprise concrete with a minimum density of 550 kg/m³.

For situations where local aperture/beading is required for slabs less than 150 mm thick, 120 mm thick concrete slabs shall be fitted locally with a combination of 13 mm and 16 mm plasterboard covers to achieve an FRL -/120/120.

Concrete build up/aperture bedding detail:

Suitable fixing from Table 1 Concrete slab

Front view



Anch	oring System	Minimum Size	Solid Concrete Floor
Vii Vii V	HUS3-P		√
Hilti Screw Anchor	HUS3-H	M6	✓
	HUS		✓

Certification Body



Certificate No. UL-AU-230006

Page 9/22

Date of Revision 2025-02-28

A.2.2 Penetrating services approved with CP 680-P/PX

A.2.2.1 uPVC pipes in stacked/straight configuration. Pipe protected with Hilti CP 680 P/PX cast in collar through concrete floor fire seperating element

The bare concrete floor seperating element thickness (tb min) must have a minimum thickness of 150 mm. The FRL of the concrete floor seperating element governs the FRL of the penetration sealing system.

FRL -/240/240 solution, t_b , min = 150 mm

In all pipe configurations, the annular gap between the service pipe and the collar or the sleeve extension shall be filled with Hilti Firestop Acrylic Sealant CP606 to a depth of not less than 10 mm.

If concrete slab thickness is greater than 200 mm, a sleeve coupler or a PVC pipe of appropriate size shall be used to extend the overall collar height up to at least the slab thickness. The sleeve can be flush with the slab top level or remain uncut. The approval also covers uPVC pipe in collar before the concrete pour.

uPVC stack pipe with sleeve cut flush uPVC stack pipe with sleeve uncut please refer to table below for pipe detail please refer to table below for pipe detail Hilti Firestop Acrylic Sealant CP606 collar sleeve remain uncut-Hilti Firestop Acrylic Sealant CP606 collar sleeve cut flushto concrete surface Hilti Cast-in device CP 680-P Hilti Cast-in device CP 680-P please refer to table below please refer to table below Pipe nominal Hilti collar CP Nominal total pipe Sealant FRL tb, min = Collar size size, DN 680P wall thickness (mm) configuration 150mm (mm) configuration 40 2 2.2 CP 680-P/PX 2" 50 Cast in collar 65 2.7 sleeve can be 10 mm depth of CP 680-P/PX 3" CP 606 applied 80 2.9 cut or remain in the annular CP 680-P/PX 4" 100 3.5 uncut -/240/240 CP 680-P/PX 6" gap between the 150* 5 Cast in collar pipe and the sleeve shall collar sleeve remain uncut at all times

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^{*} Collar sleeve shall remain uncut at all times.

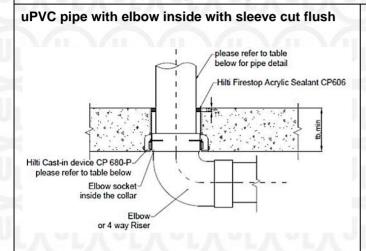
Certificate No. UL-AU-230006

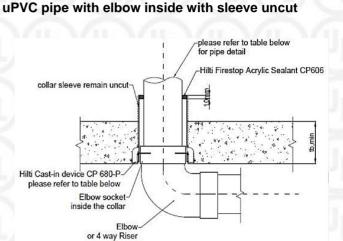
Page 10/22

Date of Revision 2025-02-28

A.2.2.2 uPVC pipes with elbow inside collar protected with Hilti CP 680 P/PX cast in collar through concrete floor fire seperating element

The bare concrete floor separating element thickness (t_b, min) shall have a minimum thickness of 150 mm. The FRL of the concrete floor separating element governs the FRL of the penetration system.





Collar size	Pipe nominal size, DN (mm)	Nominal total pipe wall thickness (mm)	Hilti collar CP 680P/PX configuration	Sealant configuration	FRL t _b , min = 150mm	
CP 680-P/PX 2"	40	2	Coat in caller			
	50	2.2	Cast in collar sleeve can be cut or remain uncut	10 mm depth of	-/240/240	
	65	2.7		CP 606 applied		
	80	2.9		in the annular		
CP 680-P/PX 4"	100	3.5	uncut	gap between the		
CP 680-P/PX 6"	150	5	Cast in collar sleeve shall remain uncut at all times	pipe and the collar sleeve		

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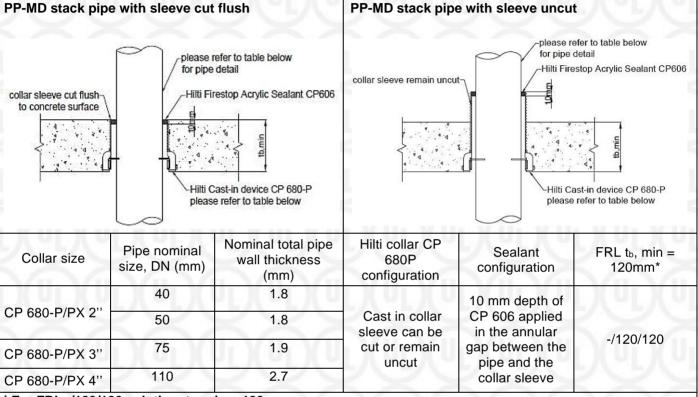
Certificate No. UL-AU-230006

Page 11/22

Date of Revision 2025-02-28

A.2.2.3 PP-MD pipes in stacked/straight configuration. Pipe protected with Hilti CP 680 P/PX cast in collar through concrete floor fire separating element

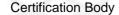
The bare concrete floor separating element thickness (tb, min) shall have a minimum thickness of 120 mm.



For FRL -/120/120 solution, t_b , min = 120 mm

To achieve an FRL of -/120/120 on a 120 mm bare concrete floor, leave the CP 680 P/PX uncut. No build up is required.

If the CP 680 P/PX collar is to be cut flush, a minimum concrete floor separating element thickness (including Local aperture building/build-up) required is 150 mm. Local aperture building/build-up is allowed using layers of 13 mm or 16 mm thick fire grade plasterboard to increase the concrete floor thickness to minimum 150 mm. Please refer to Section A.2.1.1 for aperture building/build-up details.





Certificate No. UL-AU-230006

Page 12/22

Date of Revision 2025-02-28

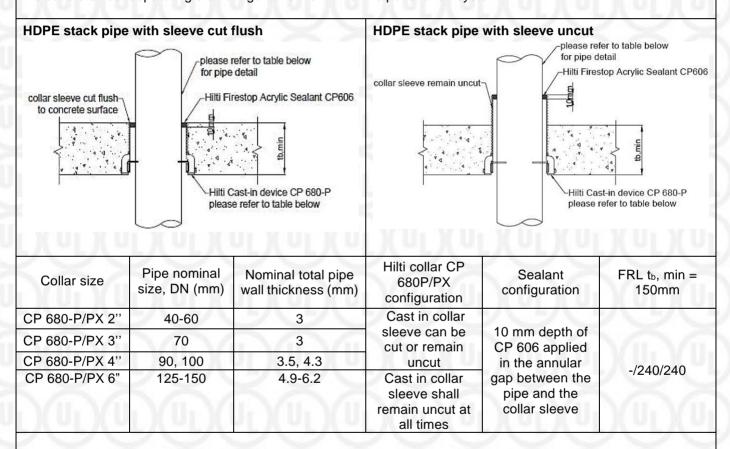
For FRL -/240/240 solution, t_b , min = 150 mm

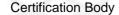
Hilti collar CP 680 P configuration 1 (CC1): Hilti cast in collar CP 680 P/PX collar sleeve can remain uncut or cut flush during the installation.

Hilti collar CP 680 P/PX configuration 2 (CC2): Hilti cast in collar CP 680 P/PX collar sleeve must remain uncut during the installation, for this collar configuration.

A.2.2.4 HDPE pipes in stacked/straight configuration with sleeve uncut

The bare concrete floor separating element thickness (t_b, min) shall have a minimum thickness of 150 mm. The FRL of the concrete floor separating element governs the FRL of the penetration system.







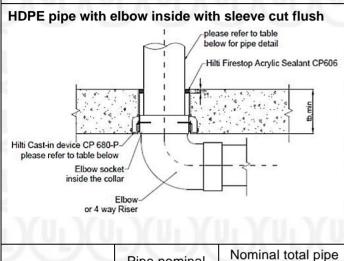
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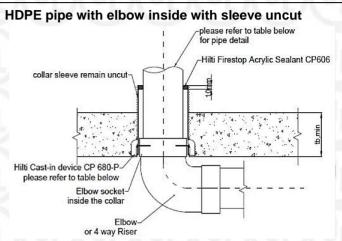
Page 13/22

Date of Revision 2025-02-28

A.2.2.5 HDPE pipes with elbow inside collar protected with Hilti CP 680 P/PX cast in collar through concrete floor fire seperating element

The bare concrete floor separating element thickness (t_b, min) shall have a minimum thickness of 150 mm. The FRL of the concrete floor separating element governs the FRL of the penetration system.





Collar size	Pipe nominal size, DN (mm)	Nominal total pipe wall thickness (mm)	Hilti collar CP 680P/PX configuration	Sealant configuration	FRL t _b , min = 150mm
CP 680-P/PX 2"	40-60	3 Cast in collar			
CP 680-P/PX 3"	70	3	sleeve can be cut or remain	10 mm depth of CP 606 applied	Yu-Yu-
CP 680-P/PX 4"	90-100	unci		in the annular gap between the	-/240/240
CP 680-P/PX 6"	125-150	4.9-6.2	Cast in collar sleeve shall remain uncut at all times	pipe and the collar sleeve	

Certification Body



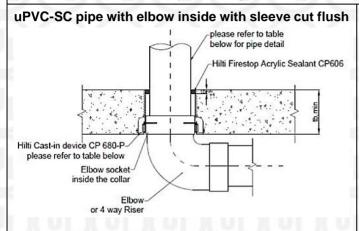
Certificate No. UL-AU-230006

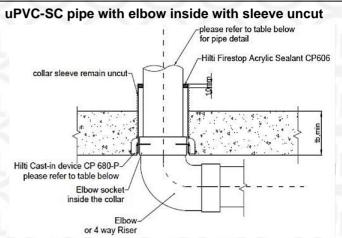
Page 14/22

Date of Revision 2025-02-28

A.2.2.6 uPVC-SC pipes with elbow inside collar protected with Hilti CP 680 P/PX cast in collar through concrete floor fire seperating element

The bare concrete floor separating element thickness (t_b, min) shall have a minimum thickness of 150 mm. The FRL of the concrete floor separating element governs the FRL of the penetration system.





Collar size	Pipe nominal size, DN (mm)	Nominal total pipe wall thickness (mm)	Hilti collar CP 680P/PX configuration	Sealant configuration	FRL t _b , min = 150mm	
CP 680-P/PX 4"	100	3.5	Cast in collar sleeve can be cut or remain uncut	10 mm depth of CP 606 applied in the annular	/040/040	
CP 680-P/PX 6"	150	5	Cast in collar sleeve shall remain uncut at all times	gap between the pipe and the collar sleeve	-/240/240	

Certification Body



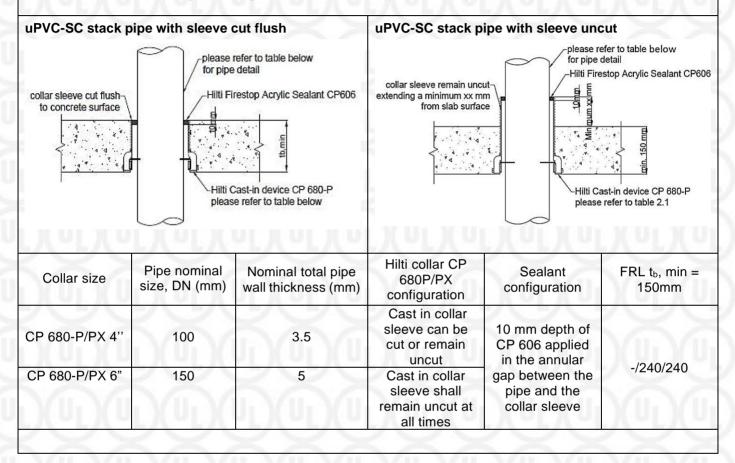
Certificate No. UL-AU-230006

Page 15/22

Date of Revision 2025-02-28

A.2.2.7 uPVC-SC pipes in stacked/straight configuration. Pipe protected with Hilti CP 680 P/PX cast in collar through concrete floor fire seperating element

The bare concrete floor separating element thickness (t_b, min) shall have a minimum thickness of 150 mm. The FRL of the concrete floor separating element governs the FRL of the penetration system.



Certification Body



Certificate No. UL-AU-230006

Page 16/22

Date of Revision 2025-02-28

A.2.2.8 Metal pipes protected with Hilti CP 606 in rigid floors

The floor must have a minimum bare concrete separating element thickness of 120 mm. Aperture framing/beading shall be applied to achieve necessary thickness of 150 mm locally. Build up is not required for floors with thickness equal to or greater than 150 mm.

The metal pipe must be positioned in the core hole such that the annular gap on all sides is maximum of 25 mm. The gap must be filled with Hilti CP 606 to a minimum depth of 30 mm backed with PE backing rod or mineral stone/rock wool. Annular gaps beyond 25 mm and up to 60 mm are allowed provided that the gap is sealed with CP 606 to a min depth of 30 mm backed with 33% compressed mineral wool with a minimum density of 60 kg/m³ as shown in Figure C below. Where the annular gap is inconsistent around the pipe (i.e., less than 25 mm on one side and greater than 25 mm on the other side), 33% compressed mineral wool is only required in those areas where the gap is over 25 mm. The backing rod may be omitted if CP 606 sealant is applied to the full depth of the floor with a maximum annular gap of 25 mm. If the annular gap is zero, Hilti CP 606 can be applied in a 30 mm high x 5 mm thick fillet around the pipe as shown in Figures B and E.

The FRL assigned applies to the insulation configuration where PVC pipe section or Hilti cast in collar CP 680 P/PX casted in floor remains in the concrete floor.

PEF backing rod can be open or closed, sealant can be filled to full depth of the floor with a maximum annular gap of 25 mm, so that the use of backing rod can be ignored.

The metal pipe shall be copper, brass and ferrous (steel and iron) pipes specified in the table below, stainless and galvanised pipes are also included.

Pipe insulation can either be mineral stone/rock wool with greater density and thickness, or 38 mm and 50 mm thick Brandford Fibertex 450. Moreover, any equivalent mineral insulation fibre insulation with a minimum density of 80 kg/m³ and a minimum thickness of 38 mm can optionally be used. Mineral stone/rock wool insulation must be overlapped by a minimum length equivalent to the pipe diameter. Such overlap is not required for preformed mineral stone/rock wool section.

If concrete slab thickness is greater than 200 mm, a sleeve coupler f a PVC pipe of appropriate size shall be used to extend the overall collar height up to at least the slab thickness.

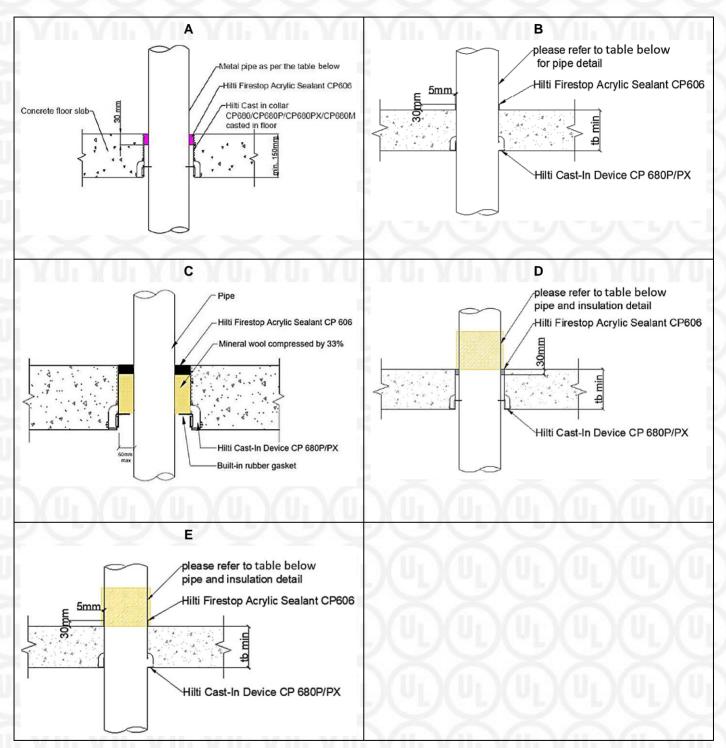
Certification Body



Certificate No. UL-AU-230006

Page 17/22

Date of Revision 2025-02-28



Certification Body



UL-AU-230006 Certificate No.

> 18/22 Page

Date of Revision 2025-02-28

A.2.2.8.1	Metal pipe	configurati	on as per Fi	gure A	(Un)(Ur YUr	Yu Yu	YU			
Metal pipe material	Collar size*	Pipe nominal size, DN (mm)	Min. pipe wall thickness (mm)	Allowable annular seal width (mm)	Sealant depth (mm)	Backing config.	Pipe insulation configuration	FRL			
Copper,	2" or 3"	23-65	0.91	25 07.00		DEE hooking		/240/			
ferrous or	3", 4" or	80-100	1.22				25, or up		PEF backing		-/240/-
brass	6"	100-125	1.42	to 60 mm with		rod, CF 116, CF-F 750 GV,	7 II. 7/ II.	3//11			
Copper, ferrous (steel and iron)	6"	125-150	1.63	mineral wool infill (figure C)	30	CF 126 or mineral rock wool	None	-/120/-			

^{*}Note: Where there are two or more options for Hilti collar CP 680 P size, the max annular gap of 25 mm must be taken into consideration.

A.2.2.8.2	Metal p	Metal pipe configuration as per Figure C											
Metal pipe material	Collar size*	Pipe nominal size, DN (mm)	Min. pipe wall thickness (mm)	Allowable annular seal width (mm)	Sealan t depth (mm)	Backing config.	Pipe insulation config. *	Insulation length	FRL				
Copper, ferrous	2" or 3"	23-65	0.91	in/i	3	PEF backing	Mineral stone/rock	365	-/240/120				
or brass	3", 4" or 6"	80-100 100-125	1.22 1.42		5/	rod, CF 116,	wool insulation	500 600	5/\				
Copper, ferrous (steel and iron)	6"	125-150	1.63	25, or up to 60 mm with mineral wool infill (figure C)	30	CF-F 750 GV, CF 126 or mineral rock wool	or performed mineral stone/rock wool insulation installed on top side of the floor only	725	-/120/120				

^{*}Note: 38 mm or 50 mm thick Bradford Fibertex 450 insulation can be optionally used. Moreover, any equivalent mineral fibre insulation with a minimum density of 80 kg/m³ and a minimum thickness of 38 mm can optionally be used.





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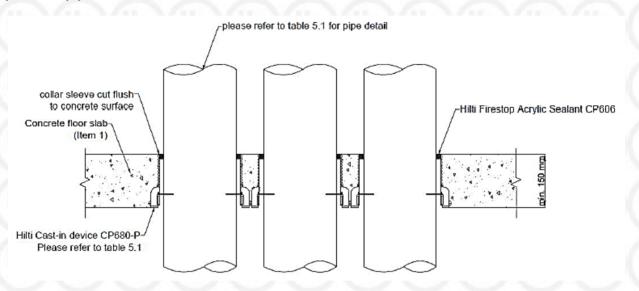
Page 19/22

Date of Revision 2025-02-28

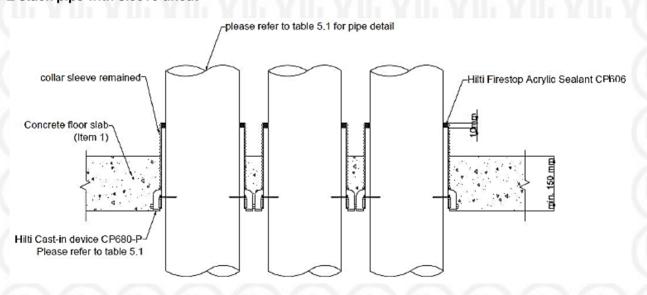
A.2.2.9 Multiple stack pipe penetrations protected with Hilti CP 680 P/PX cast in collar through concrete floor fire separating element

The bare concrete floor separating element thickness (t_b, min) shall have a minimum thickness of 150 mm. The FRL of the concrete floor separating element governs the FRL of the penetration system.

Multiple stack pipe with sleeve cut flush



HDPE stack pipe with sleeve uncut



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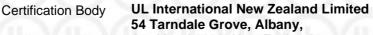
Page 20/22

Date of Revision 2025-02-28

Pipe config.	Pipe material	Collar size*	Pipe nominal size, DN (mm)	Hilti collar CP 680 P/PX config.	Sealant config.	FRL t _b , min = 150 mm
Multiple collars connected in a row	UPVC, UPVC-SC, HDPE	2", 3", 4"	All approved systems up to DN 110	Cast in collar sleeve can be cut or remain uncut	10 mm depth of CP 606 applied in the annular gap between the pipe and the collar sleeve	-/240/240
		6"	All approved systems up to DN 160	Cast in collar sleeve shall remain uncut at all times		-/240/240
	PP-MD*	2", 3", 4"	All approved systems up to DN 110	Cast in collar sleeve can be cut or remain uncut		-/120/120
	Copper, ferrous or brass	2", 3", 4", 6"	All approved systems up to DN 125	insulation# Cast in collar sleeve can be	30 mm depth of CP 606 applied in the annular gap between or in a fillet around the pipe	-/240/120
	Copper, ferrous (steel or iron)	6"	All approved systems up to DN 150			-/120/120
	Copper, ferrous or brass	2", 3", 4", 6"	All approved systems up to DN 125			-/240/-
	Copper, ferrous (steel or iron)	6"	All approved systems up to DN 150	cut or remain uncut without insulation		-/120/-

^{*}Only PP-MD less than 110 mm is included as per the above table, if PP-MD is present in a multiple collar configuration with other type of pipes, the FRL of the whole system is limited to -/120/120.

For mineral wool insulation wrapping lengths, refer to section A.2.2.8.2



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Certificate No. UL-AU-230006

Page 21/22

Date of Revision 2025-02-28

A.3 INSTALLATION OF THE PRODUCT AND ANCILLARY PRODUCT(S)

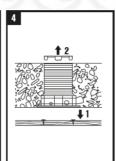
The arrangement and installation of Hilti Firestop Collar CP 680-P/PX shall be done in accordance with the details given below and in Annex 2 for the penetration seal(s).

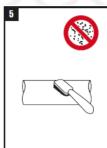
3.1 CP 680-P/PX installation













Certification Body



Certificate No. UL-AU-230006

Page 22/22

Date of Revision 2025-02-28

Appendix B

Test report details - report reference.

Name of Test Institute	Owner	Number of Report	Date of Test	Test standard
UL International Germany GmbH	Hilti (Australia) Pty Ltd 1G Homebush Bay Drive PO Box 3217 Rhodes NSW 2138	4790132642-01 date 29.06.2023	29.09.2022	AS1530.4-2014
Warringtonfire Australia Pty Ltd	HILTI (Aust.) Pty Ltd P.O. Box 3217 Rhodes NSW 2138 Australia	FRT180461 R1.0 date 29.05.2019	04/03/2019	AS1530.4-2014
Warringtonfire Australia Pty Ltd	HILTI (Aust.) Pty Ltd P.O. Box 3217 Rhodes NSW 2138 Australia	FRT180462 R2.0 date 29.05.2019	05/03/2019	AS1530.4-2014
Warringtonfire Australia Pty Ltd	HILTI (Aust.) Pty Ltd P.O. Box 3217 Rhodes NSW 2138 Australia	FRT180463 R1.0 date 29.05.2019	06/03/2019	AS1530.4-2014
Warringtonfire Australia Pty Ltd	HILTI (Aust.) Pty Ltd P.O. Box 3217 Rhodes NSW 2138 Australia	FRT190095 R1.0 date 26.06.2019	30/05/2019	AS1530.4-2014
Warringtonfire Australia Pty Ltd	HILTI (Aust.) Pty Ltd P.O. Box 3217 Rhodes NSW 2138 Australia	FRT190130 R2.0 date 31.07.2019	11/07/2019	AS1530.4-2014
Warringtonfire Australia Pty Ltd	HILTI (Aust.) Pty Ltd 1G Homebush Bay Dr Rhodes NSW 2138 Australia	FRT180322.2, date 10/01/2019	24/10/2018	AS1530.4-2014

