Certificate UL-AU-230006 rev3

> **Issue date** 2025-06-25









Hilti (Aust.) Pty. Ltd 1G Homebush Bay Drive, PO Box 3217, Rhodes, NSW 2138, Australia

has had

Firestopping Cast In Device

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

evaluated and meets the requirements of the standard

AS 1530.4:2014 and AS 4072.1:2005

The designated Certificate Holder 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. Only those Products bearing the UL-AU Mark for Australia should be considered as being covered by UL's UL-AU Mark Service.

Stuart Foster (Certification Officer)

Certification Body: UL International New Zealand Limited, 54 Tarndale Grove, Albany, Auckland 0632, New Zealand.

All dates are in Year-Month-Day format (YYYY-MM-DD).



Certificate No: UL-AU-230006 rev3 Original Date of Certification: 2023-11-01 Date of Revision: 2025-06-25

Listing Category and File Ref: AUEC.RS5417

Certification Marking: The UL-AU 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 Supplementary Information shall be placed adjacent to the Certification Mark; Firestopping – Fire Collars and Cassettes AS 1540.4

Manufacturer: Hilti AG, Feldkircherstrasse 100, FL-9494 Schaan, Liechtenstein Internet: www.hilti.com

Production Sites (Factory): Hilti Plant 4a.

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

Model Details: Hilti Firestop Cast In Device CP 680-P/PX



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Additional Information:

Details of revision: Update of UL-AU certificate based on new supporting evidence from FAS 190023 RIR2.4, Section 3.4.7. Remove production sites Hilti Plant 5a and Hilti Plant 14 from scope of certificate.

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 accreditation schedules.



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Appendix A

Conforming product configurations to achieve nominated FRL's

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

Technical description of proc	duct:							
Hilti Firestop Cast-in Device CP 680-P/PX is a pipe closure device that is cast into rigid walls and floors.								
Hilti Firestop Cast-in Device CP rubber seal for the purpose of insulation.	680-P/PX consists of a plastic smoke and draft stop, air or w	housing, an intumescent inlay and vater tightness and airborne sound						
Hilti Firestop Cast-in Device CP	680-P/PX is supplied in sever	al 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 2" CP 680-P/PX 3"	32 - 63 50 - 75	Up to DN50 DN25 to DN80						
CP 680-P/PX 2" CP 680-P/PX 3" CP 680-P/PX 4"	32 - 63 50 - 75 90 - 110	Up to DN50 DN25 to DN80 DN50 to DN100						



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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 wall or 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).

A.1.1.1 Abbreviations used in drawings							
Abbreviation	Description						
A ₁	Hilti Firestop Cast in CP 680-P/PX						
С	Plastic Pipe						
D	Pipe insulation						
dc	Pipe diameter (nominal outside diameter)						
Е	Building element (wall, floor)						
S 1	Minimum distance between single penetration seals						
tc	Pipe wall thickness						
t⊳	Insulation thickness						
tE	Thickness of the building element						
LD	Length of Insulation						



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

Overview intended use of pipes ¹ and reference to relevant section												
Application	Pipe material	Hilti collar size	Diameter (mm)	Total pipe wall thickness (mm)	Hilti collar configuration	FRL	Rigid floor ≥ 550 kg/m ³ Details (see section)					
			40	2								
		2"	50	2.2								
		-	65	2.7	Cast in collar sleeve can be		A.2.2.1					
Stack/straight pipe	uPVC	3"	80	2.9	cut or remain uncut	-/240/240						
0 11		4"	100	3.5	7							
		6''	150	5	Cast in collar sleeve shall remain uncut at all times	-						
			40	2								
		2"	50	2.2			A.2.2.2					
			65	2.7	Cast in collar sleeve can be							
Elbow inside collar	uPVC	3"	80	2.9	cut or remain uncut	-/240/240						
		4"	100	3.5								
		6"	150	5	Cast in collar sleeve shall remain uncut at all times							
Stack/straight pipe		0"	40	1.8								
		2	50	1.8	Cast in collar sleeve can be	/120/120	A 2 2 2					
		3''	75	1.9	cut or remain uncut	-/120/120	7.2.2.3					
		4"	110	2.7								
		2"	40-60	3	Cast in coller cleave can be		A.2.2.4					
		3"	70	3								
Stack/straight pipe	HDPE	4''	90, 100	3.5, 4.3		-/240/240						
0 11		6"	125-150	4.9-6.2	Cast in collar sleeve shall remain uncut at all times							
		2"	40-60	3								
		3"	70	3	Cast in collar sleeve can be							
Elbow inside collar	HDPE	4''	90, 100	3.5, 4.3	cut or remain uncut	-/240/240	A.2.2.5					
		6''	125-150	4.9-6.2	Cast in collar sleeve shall remain uncut at all times							
		4"	100	3.5	Cast in collar sleeve can be cut or remain uncut	1040/040						
Elbow Inside collar	upvc-sc	6"	150	5	Cast in collar sleeve shall remain uncut at all times	-/240/240	A.2.2.6					
0		4"	100	3.5	Cast in collar sleeve can be cut or remain uncut	1040/040	A.2.2.7					
Stack/straight pipe	uPVC-SC	6"	150	5	Cast in collar sleeve shall remain uncut at all times	-/240/240						

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
		(mm)	(mm)					Details (see section)
Copport forroup or	2" or 3"	23-65	0.91			None	-/240/-	
brace	3", 4" or	80-100	1.22		PEF backing rod, CF 116 or mineral			
brass	6"	100-125	1.42	30			-/120/- A.2.2.8.1	A.2.2.8.1
Copper, ferrous (steel and iron)	6"	125-150	1.63		rock wool			

¹ According to technical literature of pipe manufacturers



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
		(mm)	(mm)	(mm)					Details (see section)
Copper, ferrous or	2" or 3"	23-65	0.91		PEF backing rod, CF 116,	Mineral stone/rock wool	365	-/240/120	
brass	3", 4"	80-100	1.22	CF	CF-F 750 GV,	insulation or	500		
	or 6''	100-125	1.42		CF 126 or	performed mineral	600		
Copper, ferrous (steel and iron)	6"	125-150	1.63	30	mineral rock wool	stone/rock wool insulation installed on top side of the floor only	725	-/120/120	A.2.2.8.2

Pipe config.	Pipe material	Collar size*	Pipe nominal size, DN (mm)	Hilti collar config.	FRL	Rigid floor ≥ 550 kg/m ³ Details (see section)	
	UPVC, UPVC-	2", 3", 4"	All approved systems up to DN 110	Cast in collar sleeve can be cut or remain uncut	-/240/240		
	SC, HDPE	6"	All approved systems up to DN 160	Cast in collar sleeve shall remain uncut at all times	-/240/240		
Multiple collars	PP-MD	2", 3", 4"	All approved systems up to DN 110	Cast in collar sleeve can be cut or remain uncut	-/120/120		
connected in a	Copper, ferrous or brass	2", 3", 4", 6"	All approved systems up to DN 125	Cast in collar sleeve can be	-/240/120	A.2.2.9	
TOW	Copper, ferrous (steel or iron)	6"	All approved systems up to DN 150	insulation	-/120/120		
	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	insulation	-/120/-		
Blank seal with installed CP 680 series collar	-	Up to 6"	-	2 x Hilti CFS-PL Firestop Plugs cut to size, 150 mm minimum seal thickness	-/120/120	A.2.2.10	

Metal pipe material	Collar size*	Pipe nominal	Min. pipe wall	Sealant depth	Additional protection	Pipe insulation config.	Insulation length	FRL	Rigid wall ≥ 550 kg/m ³
		size, DN (mm)	thickness (mm)	(mm)					Details (see section)
Copper, ferrous or	2" or 3"	23-65	0.91		CP 680-P/PX cast in collar	None	365	-/240/-	
brass	3", 4"	80-100	1.22				500		
	or 6"	100-125	1.42	30			600		A 2 / 1
Copper, ferrous (steel and iron)	6"	125-150	1.63	50			725	-/120/-	<i>Π.</i> Ζ. Τ .Ι

Metal pipe material	Collar size*	Pipe nominal	Min. pipe wall	Sealant depth	Additional protection	Pipe insulation config.	Insulation length	FRL	Rigid wall ≥ 550 kg/m ³
		size, DN (mm)	thickness (mm)	(mm)					Details (see section)
Copper, ferrous or	2" or 3"	23-65	0.91		CP 680-P/PX cast in collar	Mineral stone/rock wool	365	-/240/120	
brass	3", 4"	80-100	1.22			insulation or	500		
	or 6''	100-125	1.42			performed	600		
Copper, ferrous (steel and iron)	6"	125-150	1.63	30		mineral stone/rock wool insulation installed on top side of the floor only	725	-/120/120	A.2.4.2







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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 (t_b 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 v	vith sleeve cut	flush	uPVC stack pipe with sleeve uncut				
collar sleeve cut flush to concrete surface	please for pip Hilti F Hilti F Hilti plea	e detail irrestop Acrylic Sealant CP606	collar sleeve remain uncut Hilti Cast-in device CP 680-P please refer to table below				
Collar size	Pipe nominal size, DN (mm)	Nominal total pipe wall thickness (mm)	Hilti collar CP 680P configuration	Sealant configuration	FRL t₀, min = 150mm		
CP 680-P/PX 2"	40 50 65	2 2.2 2.7	Cast in collar sleeve can be	10 mm depth of			
CP 680-P/PX 3"	80	2.9	cut or remain	CP 606 applied			
CP 680-P/PX 4"	100	3.5	uncut	in the annular	-/240/240		
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	12401240		
* Collar sleeve shal	Il remain uncut	at all times.					



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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.





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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.







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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.





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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.





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uPVC-SC pipes in stacked/straight configuration. Pipe protected with Hilti CP 680 P/PX cast in A.2.2.7 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. uPVC-SC stack pipe with sleeve cut flush uPVC-SC stack pipe with sleeve uncut please refer to table below please refer to table below for pipe detail for pipe detail Hilti Firestop Acrylic Sealant CP606 collar sleeve remain uncut-Hilti Firestop Acrylic Sealant CP606 collar sleeve cut flushextending a minimum xx mm to concrete surface from slab surface e ... % 150 mm tb,min nin. Hilti Cast-in device CP 680-P Hilti Cast-in device CP 680-P please refer to table below please refer to table 2.1 Hilti collar CP Nominal total pipe Pipe nominal FRL t_b, min = Sealant Collar size wall thickness 680P/PX size, DN (mm) 150mm configuration (mm)configuration Cast in collar 10 mm depth of sleeve can be CP 680-P/PX 4" 100 3.5 CP 606 applied cut or remain in the annular uncut -/240/240 gap between the CP 680-P/PX 6" 150 5 Cast in collar pipe and the sleeve shall

remain uncut at all times



collar sleeve

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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.







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A.2.2.8.1	Metal pip	e configura	ation as per	Figure A				
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,	Copper, 2" or 23-65 0.91 25, o		25, or up		PEF backing		-/240/-	
brace	3", 4"	80-100	1.22	to 60 mm		rod, CF 116,		
DIASS	or 6"	100-125	1.42	with	20	CF-F 750 GV,	Nono	
Copper, ferrous (steel and iron)	6"	125-150	1.63	mineral wool infill (figure C)	50	CF 126 or mineral rock wool	NOTE	-/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 pipe configuration as per Figure C											
Metal	Collar	Pipe	Min. pipe	Allowable	Sealant	Backing	Pipe	Insulation	FRL			
pipe	size*	nominal	wall	annular	depth	config.	insulation	length				
material		size, DN (mm)	thickness (mm)	seal width (mm)	(mm)		config. *					
Copper,	2" or	23-65	0.91			PEF	Mineral	365				
ferrous or	3"	23-03	0.91	-		backing	stone/rock		-/240/120			
brass	3", 4"	80-100	1.22			rod, CF	wool	500				
	or 6''	100-125	1.42			116,	insulation	600				
Copper,				25, or up		CF-F	or					
ferrous				to 60 mm		750 GV,	performed					
(steel and				with	30	CF 126	mineral					
iron)				mineral	00	or	stone/rock					
	6"	125-150	1.63	wool infill		mineral	wool	725	-/120/120			
	0	125-150	1.05	(figure C)		rock	insulation	125				
						wool	installed on					
							top side of					
							the floor					
							only					

*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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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	-/240/240
		6"	All approved systems up to DN 160	Cast in collar sleeve shall remain uncut at all times	CP 606 applied in the annular gap between the pipe and the collar	-/240/240
	PP-MD*	2", 3", 4"	All approved systems up to DN 110	Cast in collar sleeve can be cut or remain uncut	sleeve	-/120/120
	Copper, ferrous or brass	2", 3", 4", 6"	All approved systems up to DN 125	Cast in collar sleeve can be cut or remain		-/240/120
	Copper, ferrous (steel or iron)	6"	All approved systems up to DN 150	uncut with mineral wool insulation#	30 mm depth of CP 606 applied in the annular gap	-/120/120
	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 without mineral wool insulation		-/240/-
	Copper, ferrous (steel or iron)	6"	All approved systems up to DN 150			-/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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A.2.2.10 Blank seals

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



Seal	Collar size	Seal configuration	FRL
blank seal with installed CP 680 series collar in floor	up to 6"	2 X CFS - PL Hilti firestop plug cut to size, 150 mm minimum seal thickness	-/120/120



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General information

A.2.3

A.2.3.1 Rigid wall

.2.4 Metal pipes protected with Hilti CP 606 in rigi	d walls
ne wall must have a minimum bare concrete separating	element thickness of 150 mm.
ne metal pipe must be positioned in the core hole such the gap must be filled with Hilti CP 606 to a minimum dep m are allowed provided that the gap is sealed with CP 6 mpressed mineral wool with a minimum density of 60 k	hat the annular gap on all sides is maximum of 25 mm. oth of 30 mm. Annular gaps beyond 25 mm and up to 60 606 to a min depth of 30 mm backed with 33% g/m ³ as shown in Figures F and G below.
e FRL assigned applies to the insulation configuration PX casted in walls remains in the concrete wall.	where PVC pipe section or Hilti cast in collar CP 680
e metal pipe shall be copper, brass and ferrous (steel a Ivanised pipes are also included.	and iron) pipes specified in the table below, stainless and
F	G
- <u></u>	

/	ounatou n		Jinigaration	ao poi riguio r				
Metal pipe material	Collar size*	Pipe nominal size, DN (mm)	Min. pipe wall thickness (mm)	Allowable annular seal width (mm)	Sealant depth (mm)	Additional protection	Pipe insulation configuration	FRL
Copper,	2" or 3"	23-65	0.91	25 or up to				-/240/-
brace	3", 4"	80-100	1.22	20, 01 up to		CP 680		
DIASS	or 6''	100-125	1.42	minoral wool	30	P/PX cast in	None	
Copper, ferrous (steel and iron)	6"	125-150	1.63	infill		collar		-/120/-

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



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A.2.4.2 Insulated metal pipe configuration as per Figure G									
Metal pipe material	Collar size*	Pipe nominal size, DN (mm)	Min. pipe wall thickness (mm)	Allowable annular seal width (mm)	Sealant depth (mm)	Additional protection	Pipe insulation config. *	Insulation length	FRL
Copper, ferrous	2" or 3"	23-65	0.91			CP 680 P/PX cast	Mineral stone/rock	365	-/240/120
or brass	3", 4"	80-100	1.22			in collar	wool	500	
	or 6''	100-125	1.42				insulation	600	
Copper, ferrous (steel and iron)	6"	125-150	1.63	25, or up to 60 mm with mineral wool infill	30		or performed mineral stone/rock wool insulation installed on both sides of the wall	725	-/120/120

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







Certificate No: UL-AU-230006 rev3 Original Date of Certification: 2023-11-01 Date of Revision: 2025-06-25

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

