



The logo for Injectaclad, featuring a stylized orange flame icon to the left of the word "Injectaclad" in a white, sans-serif font, all set against a dark blue rectangular background.

INSTALLATION GUIDE



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A decorative graphic in the bottom right corner consisting of several overlapping, semi-transparent blue circles of various sizes, creating a modern, abstract look.



This document is to be read in conjunction with the Injectaclad Technical Data Sheet and Injectaclad Safety Data Sheet. The materials and plant referred to below are supplied directly to the approved installer by Injectaclad and are defined as;

INJECTACLAD Acrylic based graphite sealant SS17 HPE (20kg Pail)

INJECTA PIN 250mm

INJECTA MESH Grey/Black Braided Sleeve >25mm - 100mm diameter

Injectaclad Pump Kit





Setup and Extraction Phase

All operatives must have been trained by Injectaclad and will have relevant documentation to this effect.

Identify areas on the clients drawing where injection of fire protection is required and mark the relevant compartment line locations on the building for approval by the clerk of works / fire engineer.

Using appropriate hand tools, such as Arbortech brick and mortar cutting saws, form openings to create working space at approximately 2 metre centres on horizontal compartment lines and 3 metre centres to vertical compartment lines. Generally, the working space will be three bricks on stretcher bond external brickwork or one block on rendered buildings.

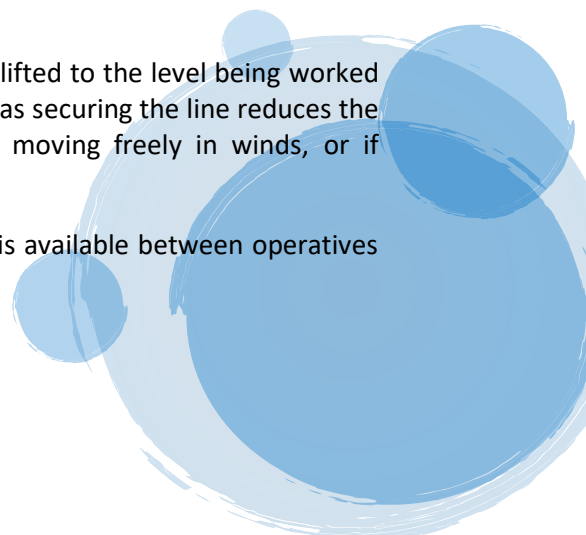
The cavity will be inspected by borescope to ensure the void is clear and accessible and any facing brickwork removed will be identified and referenced for reinstallation post Injectaclad remediation. Removed bricks will be stored securely onsite and the openings will be covered using non-combustible CP Board or similar.

Between the openings 6mm holes will be drilled on the compartment line and 4mm InjectaPins will be installed. On vertical installations the pins will be staggered to enable the InjectaMesh to be fitted between them to ensure works proceed on the party wall line.

The injectaclad pump is connected to a minimum of 250CFM air compressor. All air lines to be securely fastened and fixed with retaining clips.

All injection lines will be coupled together using whip end springs and lifted to the level being worked on. The lines will be fixed to the building or scaffolding as appropriate as securing the line reduces the load required to be lifted by the operatives and prevents the line moving freely in winds, or if disconnection were to occur.

Two-way radio communications will be tested to ensure a good level is available between operatives working at height and the pump controller.





Injection Phase

Once the line is fixed and primed correctly sited pumping of Injectaclad SS17 can commence. Several 20kg pails will be heated using the product heater jackets to +15 degree C for optimal output.

The InjectaMesh is placed over the pumping nozzle and fed through the cavity across the top of the pins to the next opening.

There will be 2 operatives at working height; Operative 1 will be at the valve end operative 2 will be at the wet end and supporting.

As the pumping begins the Injectaclad SS17 will immediately fill the InjectaMesh. Once the first 200mm of InjectaMesh is full the operative 2 will be able to release it and the material will become self-supported. The pumping process continues until the section has been completed, at which point the pump operator will stop pumping, having been notified via two-way radio.

The next opening at the height will be started repeating the process with each injection material application butting tightly to the next to form a continuous seal. Jointing details can be found on product TDS.

Once the level is complete the process will be repeated below in the same plane, unclipping the injection line at the highest point.

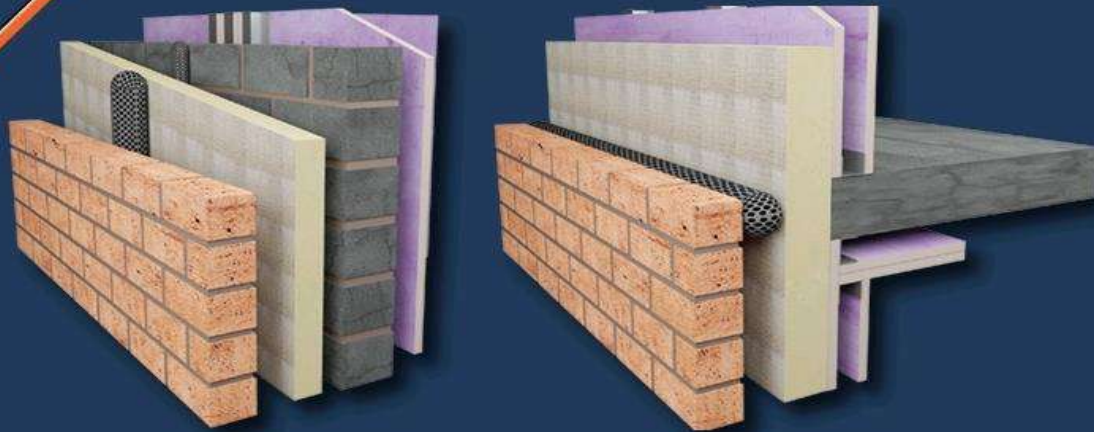
All work will be photographed by the installers and recorded back to industry standard software on completion with each section given a unique referencing system for that location and the finished injection process will be filmed using endoscopic camera to provide full QA once the whole of the installation is complete.

Once the working days injection is complete the line will be lowered back to the pump and depressurized. The air compressor will be turned off and air lines stored away.

All materials and injection pump to be stored securely at the end of each working day.

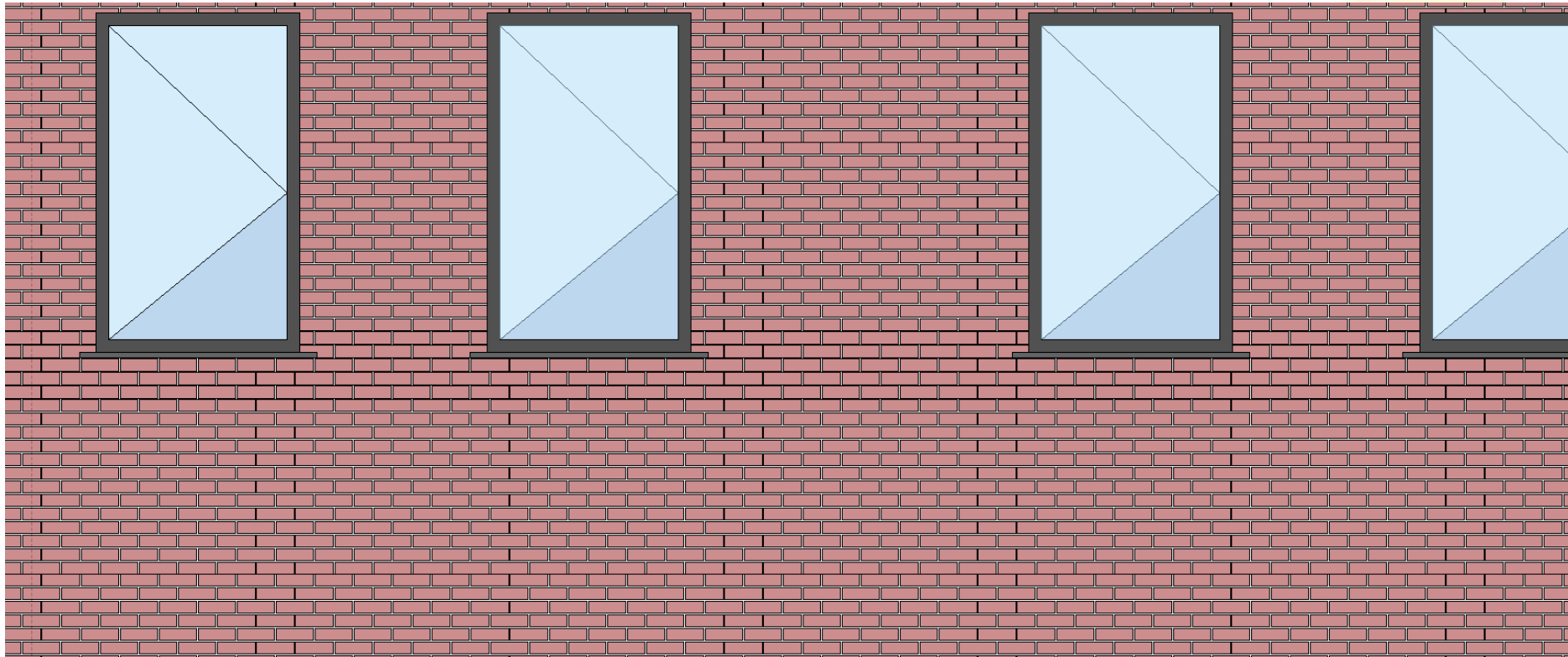
Injectaclad

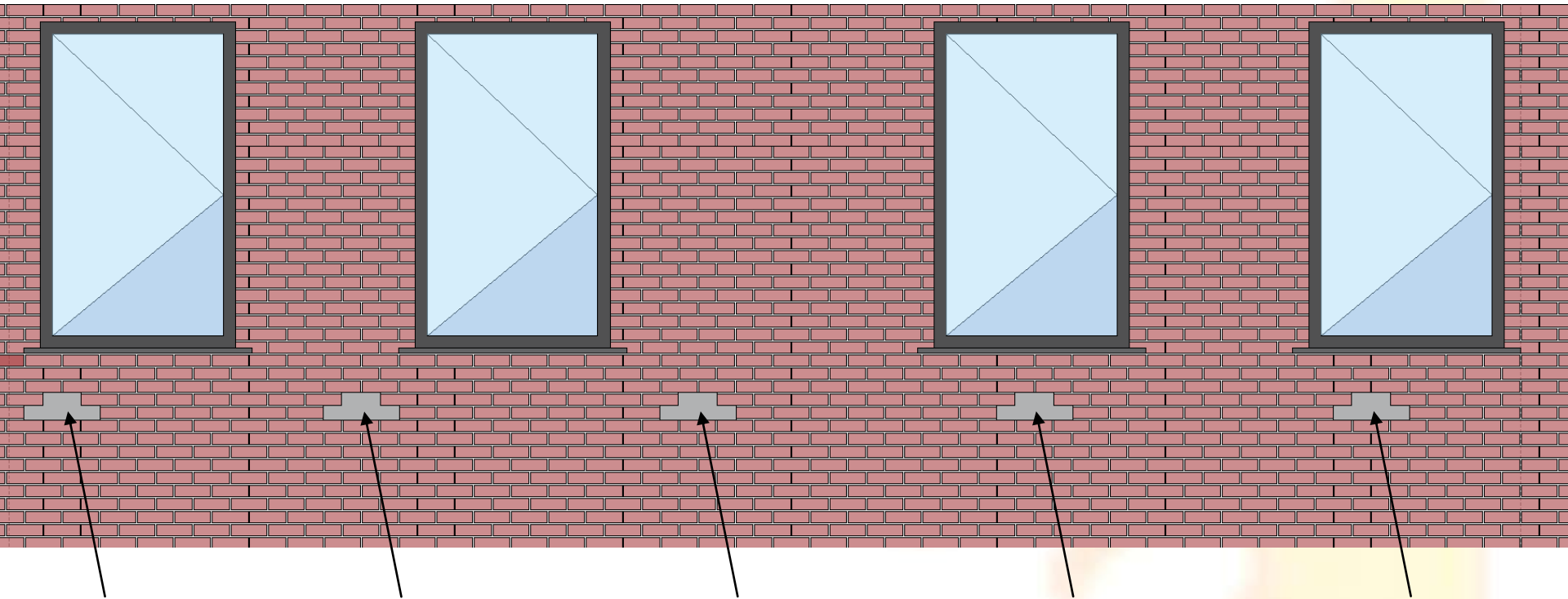
INNOVATION THAT SAVES LIVES



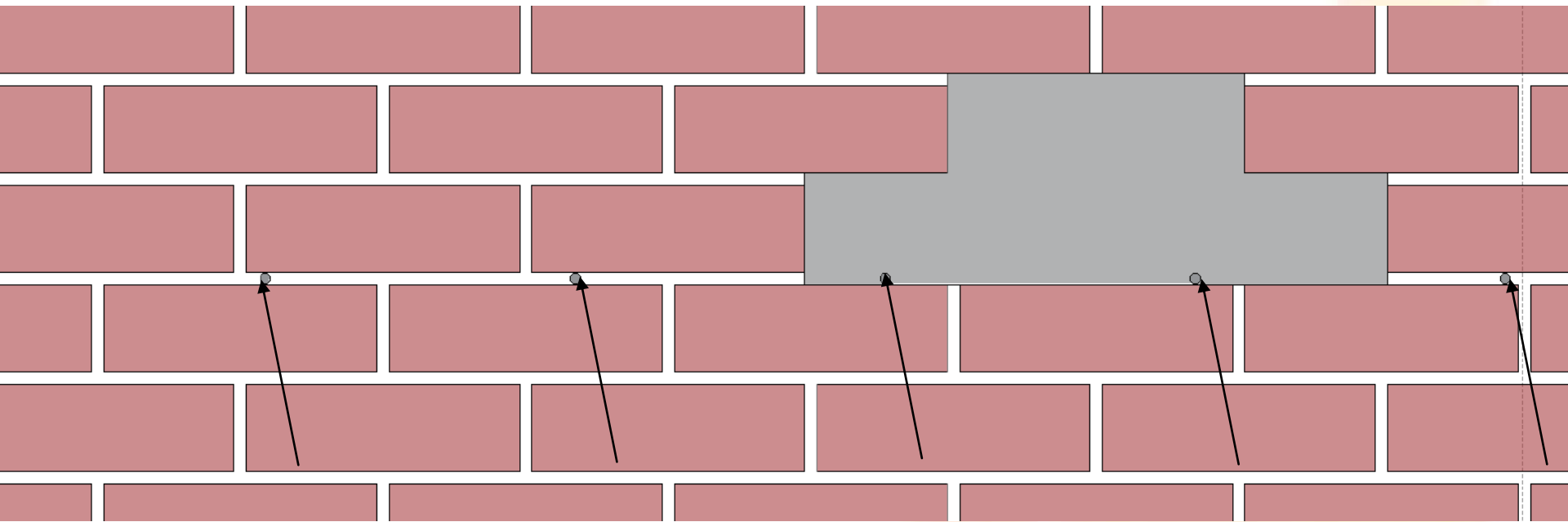
- Retrospective cavity barrier
- Can be fitted within gaps up to 200 mm width
- Minimal disruption for building occupants
- Fire tested in accordance with BS8414-1
- Tested to BSEN: 1366-4 up to 2hr integrity and insulation
- Works with PIR insulation left in place
- Avoids the need to remove external façade systems

Basic Installation

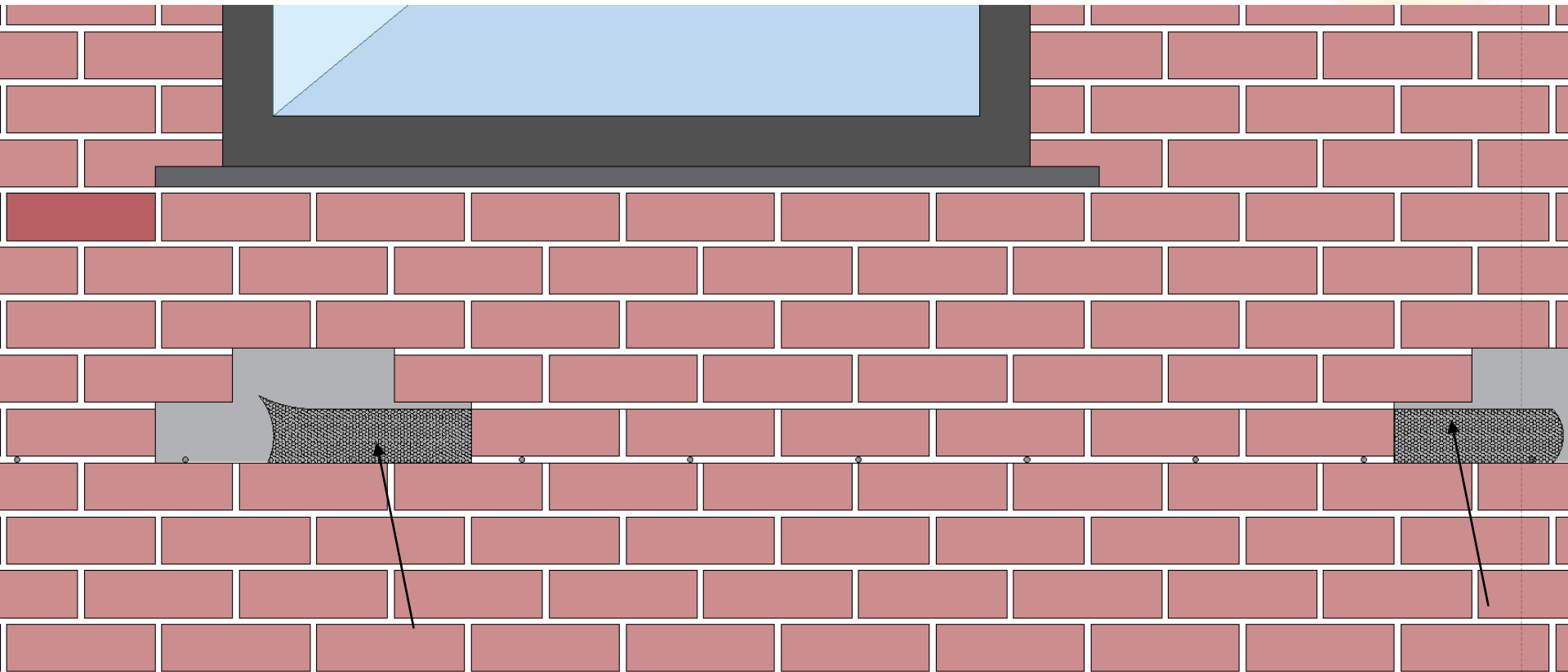




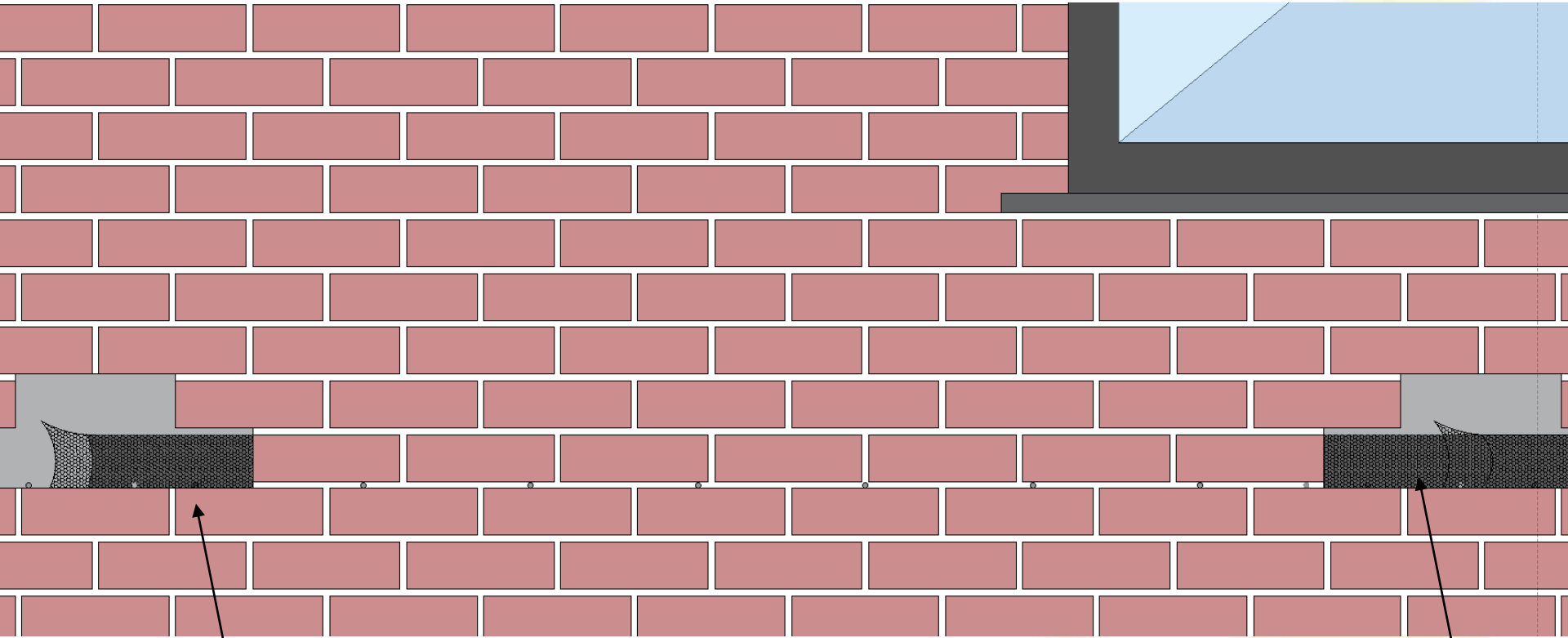
Identify slab edge and remove small pocket of brick @ 2m centres



Install stainless steel pins @ 250mm centres
4mm diameter pins inside 6mm hole to bridge a cavity.

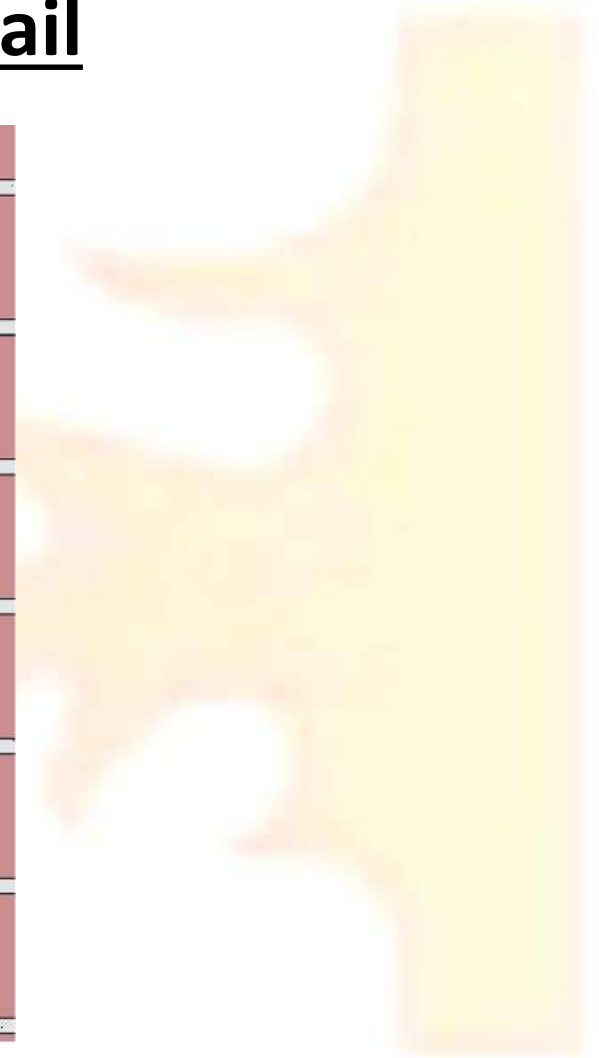
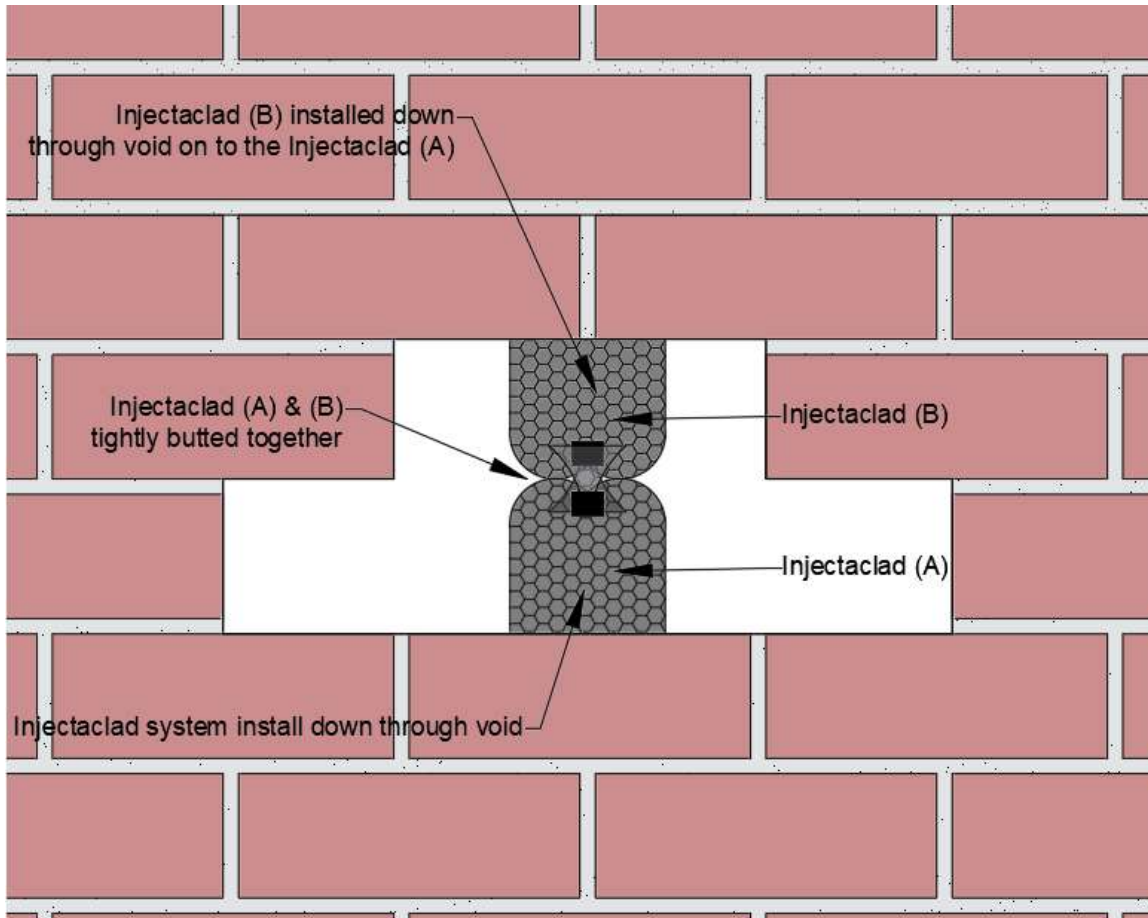


Injectaclad mesh is installed on top of the pins feeding between the 2m openings.

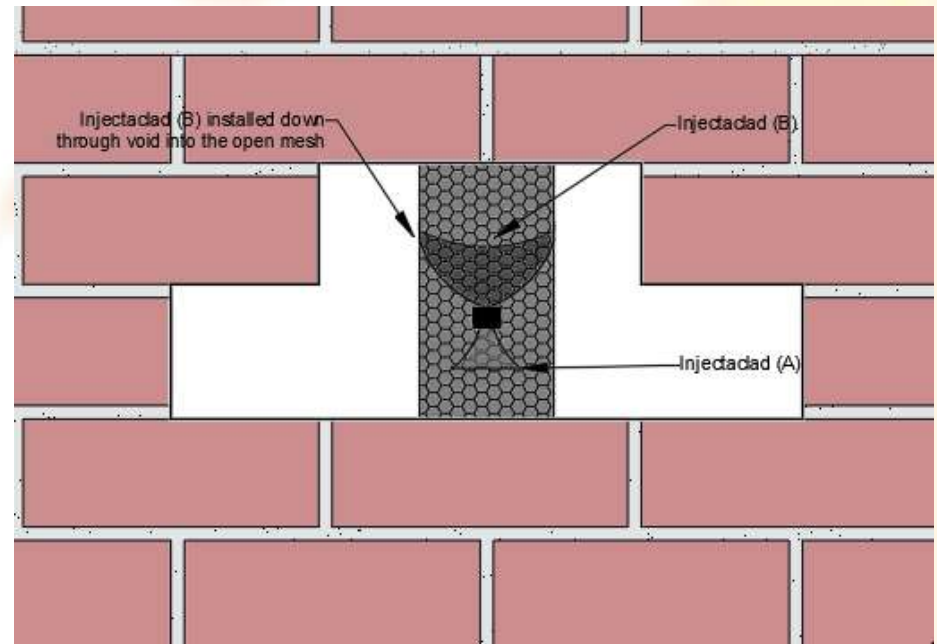
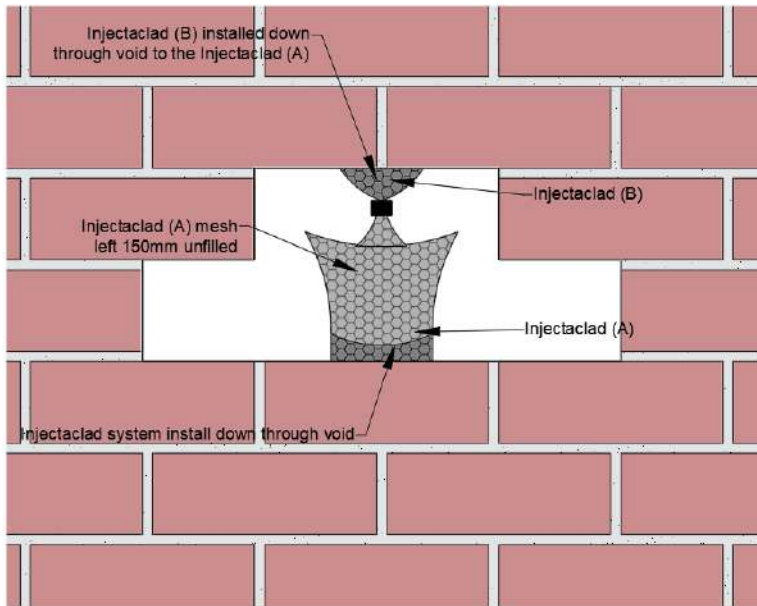


Injectaclad sealant is pumped into the mesh until full and the process is repeated.

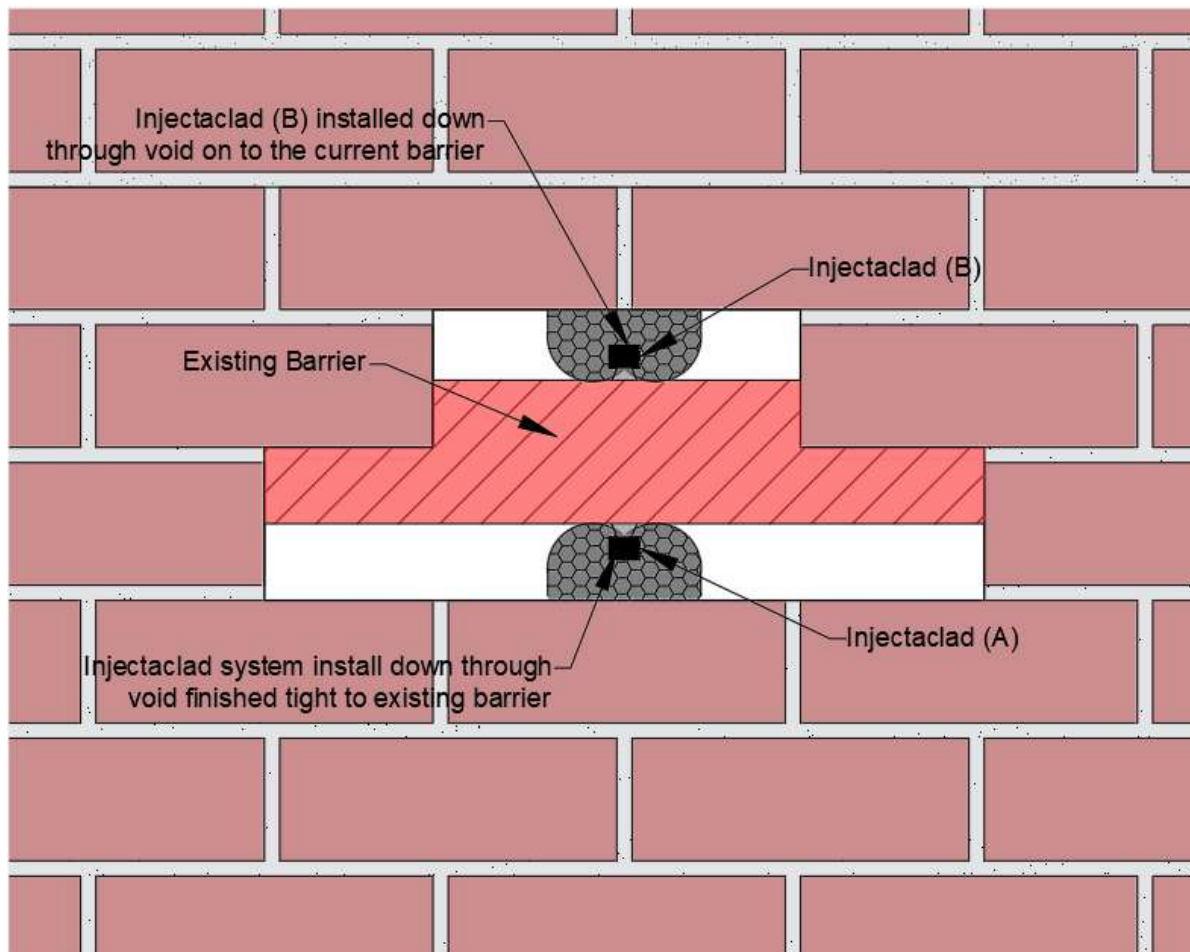
Jointing Details – Butt Joint Detail



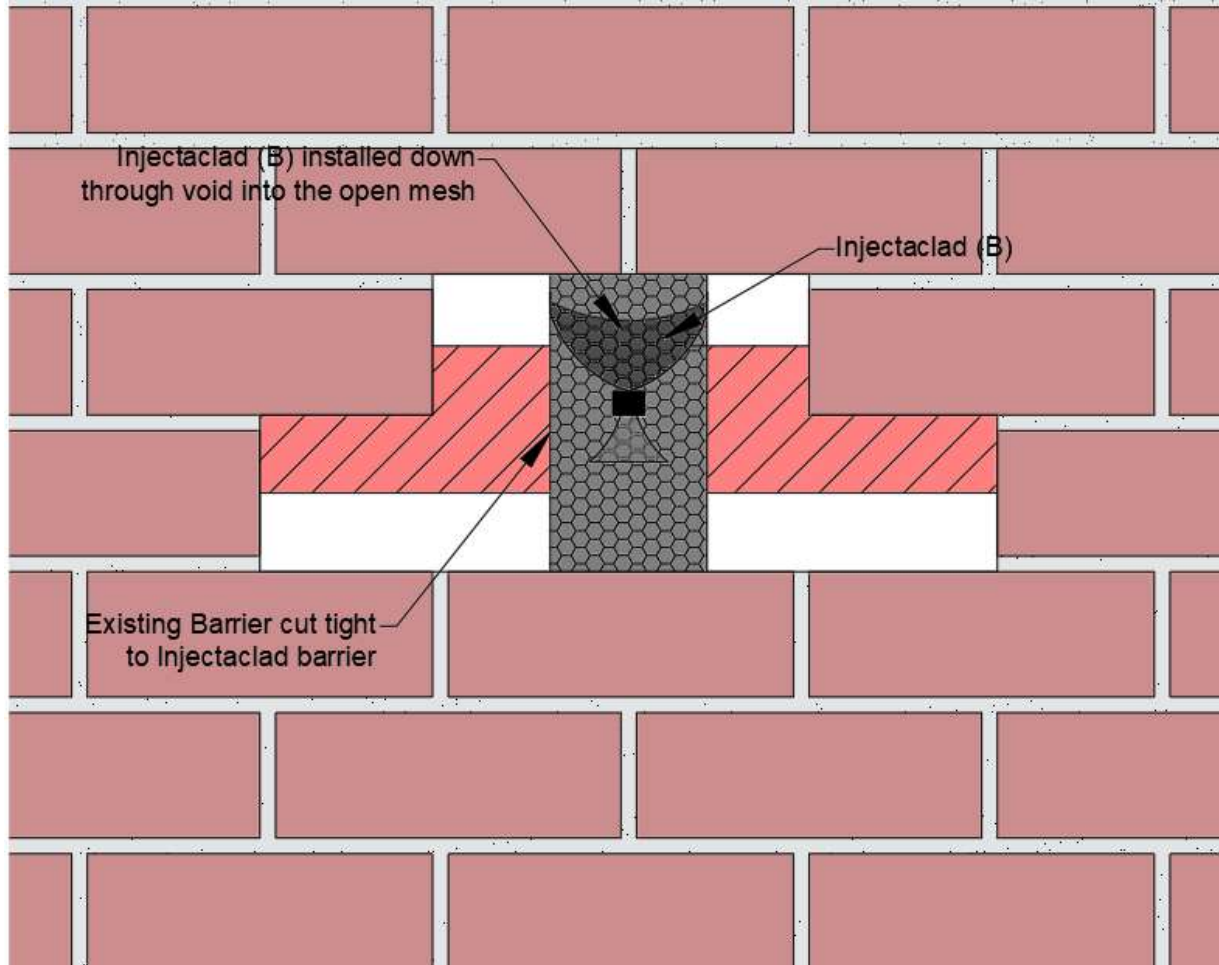
Jointing Details – Seamless Joint Detail



Jointing Details – Butt Joint Against Existing Barrier



Jointing Details – Seamless Joint Through Existing Barrier



Recorded installation onto fire stopping software.

QA hold points are:

- Bricks Out (Installer)
- Void Inspected for Readiness (QA Manager)
- Pins Installed (Installer)
- Mesh Installed (Installer)
- Injectaclad Installed (Installer)
- Injectaclad Sign Off Inspection (QA Manager)

All Reports														
Setup Reports Work Allocation Timesheets														
													Text search:	
<input type="checkbox"/>	All dates	Berkeley Homes	All locations	All reports	All users	Clear search			Total records:					
<input type="checkbox"/>									141	Page: 1 of 3				
<input type="checkbox"/>	01 Mar 21	95	The Boat House - Victory Pier	Worksheet	Andrew Scoble	Slab 5-6	North Elevation	Completion Inspection	80	1650	0	120 Min F/S	01 Mar 12:56	01 Mar 12:58
<input type="checkbox"/>	01 Mar 21	94	The Boat House - Victory Pier	Worksheet	Andrew Scoble	Slab 5-6	North Elevation	Completion Inspection	30	1650	0	120 Min F/S	01 Mar 12:54	01 Mar 12:56
<input type="checkbox"/>	01 Mar 21	93	The Boat House - Victory Pier	Worksheet	Andrew Scoble	Slab 3-4	North Elevation	Completion Inspection	80	1650	0	120 Min F/S	01 Mar 12:52	01 Mar 12:54
<input type="checkbox"/>	01 Mar 21	92	The Boat House - Victory Pier	Worksheet	Andrew Scoble	Slab 3-4	North Elevation	Completion Inspection	30	1650	0	120 Min F/S	01 Mar 12:37	01 Mar 12:52
<input type="checkbox"/>	01 Mar 21	91	The Boat House - Victory Pier	Worksheet	Andrew Scoble	Slab 1-2	North Elevation	Completion Inspection	80	1650	0	120 Min F/S	01 Mar 12:35	01 Mar 12:37
<input type="checkbox"/>	01 Mar 21	90	The Boat House - Victory Pier	Worksheet	Andrew Scoble	Slab 1-2	North Elevation	Completion Inspection	30	1650	0	120 Min F/S	01 Mar 12:28	01 Mar 12:35
<input type="checkbox"/>	01 Mar 21		The Boat House - Victory Pier	Accept Method Statement	Andrew Scoble									01 Mar 12:09
<input type="checkbox"/>	01 Mar 21	16	The Boat House - Victory Pier	Worksheet	Bleddyn Price	4/5 slab	North	Injection Installation	80	1650	0	120 Min F/S	01 Mar 12:07	01 Mar 12:09
<input type="checkbox"/>	01 Mar 21	15	The Boat House - Victory Pier	Worksheet	Bleddyn Price	5/6 slab	North	Pin Installation	0	1650	2	Other	01 Mar 11:50	01 Mar 11:52
<input type="checkbox"/>	01 Mar 21	14	The Boat House - Victory Pier	Worksheet	Bleddyn Price	5/6 slab	North	Injection Installation	90	1650	0	120 Min F/S	01 Mar 11:49	01 Mar 11:50
<input type="checkbox"/>	01 Mar 21	13	The Boat House - Victory Pier	Worksheet	Bleddyn Price	1-2	North	Injection Installation	75	1650	0	120 Min F/S	01 Mar 11:32	01 Mar 11:33
<input type="checkbox"/>	01 Mar 21	12	The Boat House - Victory Pier	Worksheet	Bleddyn Price	1-2	North	Injection Installation	35	1650	0	120 Min F/S	01 Mar 10:39	01 Mar 10:59
<input type="checkbox"/>	01 Mar 21	11	The Boat House - Victory Pier	Worksheet	Bleddyn Price	4/5 slab	North	Injection Installation	35	1650	120 Min F/S	01 Mar 10:37	01 Mar 10:39	
<input type="checkbox"/>	01 Mar 21	10	The Boat House - Victory Pier	Worksheet	Bleddyn Price	5-6 slab	North	Injection Installation	35	1650	0	120 Min F/S	01 Mar 09:57	01 Mar 09:59

Worksheet

Customer: **Berkeley Homes**
 Location: **The Boat House - Victory Pier**
 Form date: **01 Mar 2021**
 Status: **Released for User Edit**
 Completed by: **Andrew Scoble**

Seal Details

Working Conditions Changed
 Seal Id: **95**
 FS/AS: **120 Min F/S**
 Drawing
 Level: **Slab 5-6**
 Location: **North Elevation**
 Seal type: **Completion Inspection**
 X: **80**
 Y: **1650**
 Number of other identical seals: **0**








Comments: **Injection installed right of building. Cavity installation complete.**



FULL VIDEO BORESCOPE RECORDS OF WHOLE PROJECT.

.192.168.1.5) (P:) > PROJECT FILES > ACTIVE PROJECTS > RHRC > BENTLEY HOUSE > QA > Bentley house > elevation 11 > video

Search video

Name	Date modified	Type	Size
 elevation 11-L7-GL-w	24/08/2021 12:49	MOV File	56,397 KB
 elevation 11-L8-GL-w	24/08/2021 12:49	MOV File	56,397 KB
 elevation 11-L8-GL-x	24/08/2021 12:36	MOV File	56,397 KB
 elevation 11-L9-GL-w	24/08/2021 12:47	MOV File	56,397 KB
 elevation 11-L9-GL-x	24/08/2021 12:37	MOV File	56,397 KB
 elevation 11-L10-GL-w	24/08/2021 12:45	MOV File	56,397 KB
 elevation 11-L10-GL-x	24/08/2021 12:35	MOV File	56,397 KB

