

# Installation & Maintenance Guide





# ABOUT OUR PRODUCTS

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Thank you for purchasing your new CCRM Structures products.  
PLEASE EXAMINE YOUR PRODUCTS FULLY UPON RECEIPT.

All our products are super lightweight, thermally efficient, cost-effective, and compliant with energy efficiency standards.

Your product is produced using ultra-high-density polystyrene with one of our two custom finishes:

- Stone-like acrylic resin is rendered in the finish Sandstone
- Standard hybrid finish - acrylic resin render with a spray coating of CCRM Structures' custom flexi-coat for increased durability, available in white, grey, or cream, with a primed finish.

**FOR ADVICE AND SUPPORT PLEASE CONTACT OUR  
CUSTOMER CARE TEAM:**



**+353 (0)21 245 5052**

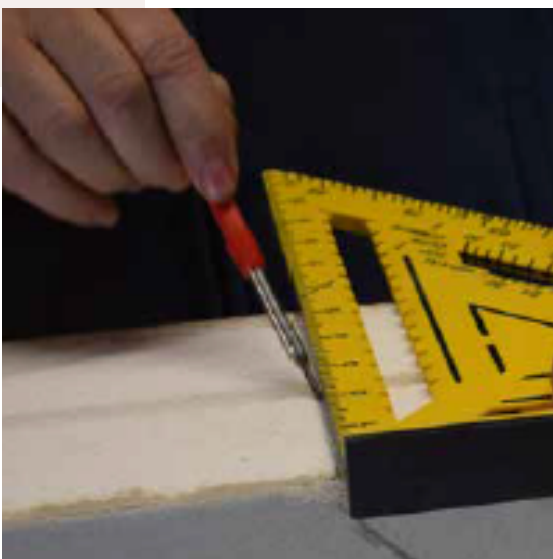
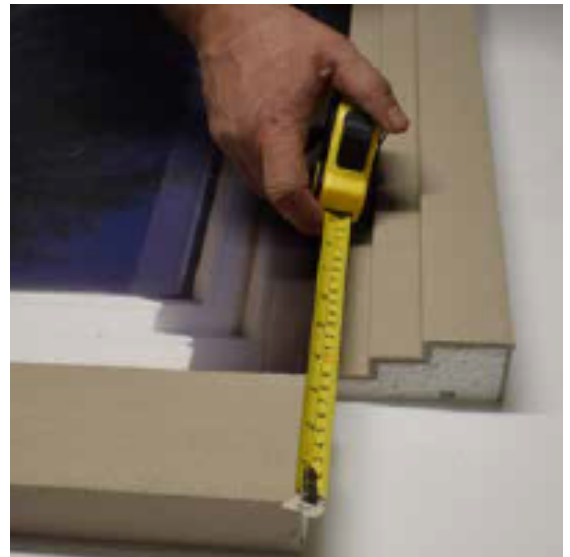


**INFO@CCRMSTRUCTURES.COM**

# MOULDINGS

## Standard Installation

1. When installing our mouldings, it is important to measure accurately, prior to cutting and fixing the moulding.



2. Once lengths have been measured, they can be cut or mitered according to requirements. Scribe cutting is recommended. This involves marking to measure, directly on the profile, to create a line to cut on as a guide.

3. For a straight edge, mark the line to cut as a guide and cut the profile easily using a wide-toothed saw. For a mitered edge, see page 4 of this guide.

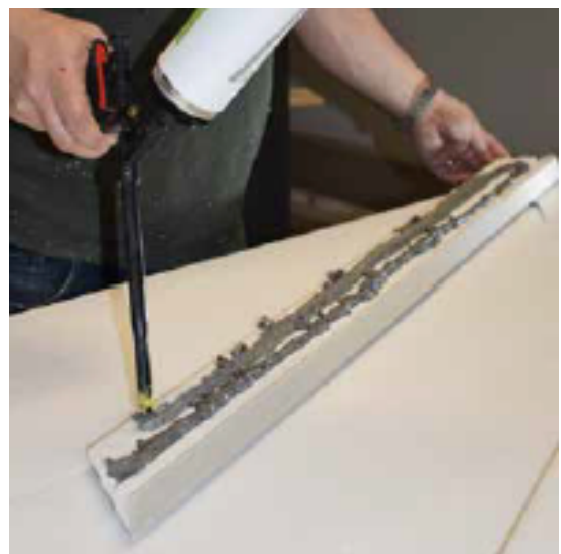


4. Once the required length is measured and cut, double check the fit, noting any areas that require sanding to fit neatly or any minor gaps that may require filling after installation.

5. Carefully install the length of moulding in position and check levels if needed using a level.

Our mouldings are light, so applying supports is not generally required for most small and medium sized profiles. For larger profiles, such as string course or soffit mouldings, support screws or nails can be used as a temporary mechanical fixing.

Please remove support screws/nails after the low expansion foam sets and the mouldings are fixed.



6. Finish by filling in any gaps along joins or edges and sand smooth. Or, for a more traditional finish, rub joints with a finger tip or pointing tool to emphasise the joint.

Once the filling has dried, profiles must be sealed or painted to protect them from the elements.

Please take a look at [page 8](#) of the Maintenance guide for advice on long-term maintenance.





## Specialised Installation: How to Fit Window Reveals

For mitered joints, each length measurement needs to include a surplus for mitering the lengths together on site.

### Mitering One End of the Moulding

- To determine the necessary extra length, add the width of the moulding to the length measurement

### Mitering Both Ends of the Moulding

- To determine the necessary extra length, add the width of the moulding multiplied by two to the length measurement

Scribe cut the length of moulding, marking all edges and cutting using a wide-toothed saw. Follow the steps below to ensure a precise fit and good-quality finish



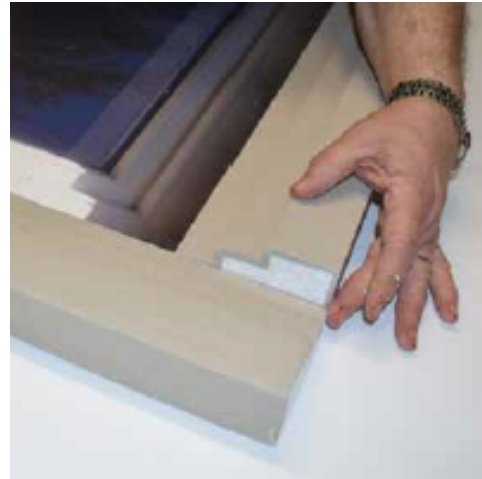
1. Fit to sill top first - hold moulding to sill and note the sill edge gap



2. Scribe cut straight edge and sand to fit, continuing to check against sill top



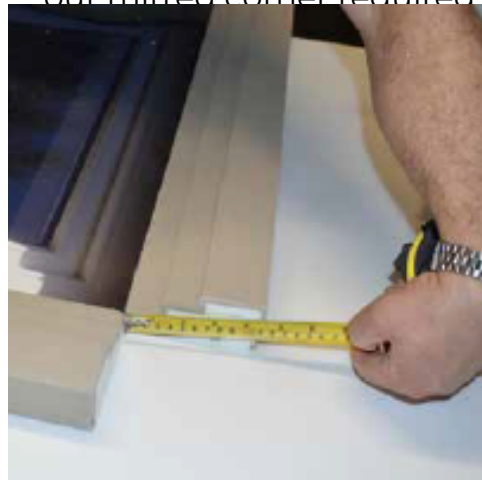
3. Measure to top corner



4. Assess reveal width to work out mitred corner required



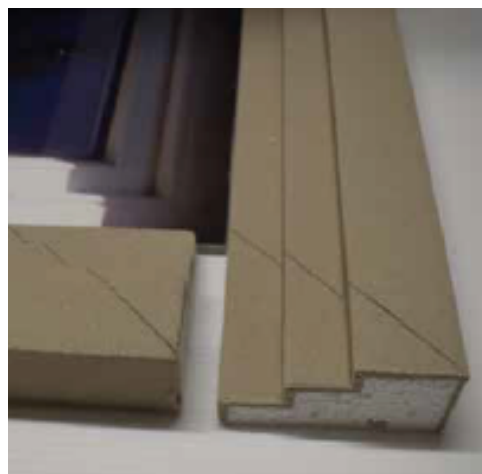
5. Measure side reveal width



6. Measure top reveal width



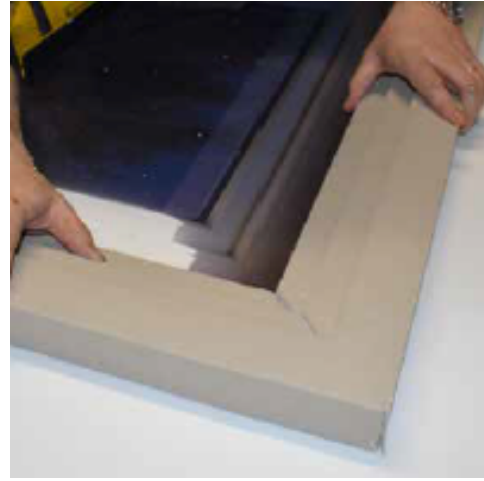
7. Mark mitred edge on side reveal



8. Mark mitred widths to be cut on each piece, side width to top piece and vice versa



9. Cut mitred edge with wide toothed saw and double check against reveal



10. Cut as before and double check fit



11. Fit in place using low expansion foam and gun and check levels



12. Thumb in resin to seal gaps - take care to check the entire moulding surface



13. Sand and smooth any filled areas when dry and take care to remove support fixings if used

**PLEASE NOTE:**

CCRM Structures does not recommend using mechanical fixing with our mouldings. The use of mechanical fixings when installing mouldings may make your warranty null and void.





## Maintenance

**Annual maintenance of your mouldings is important for optimal performance. Here are some tips to follow regularly to keep your product looking at its best:**

### Dos:

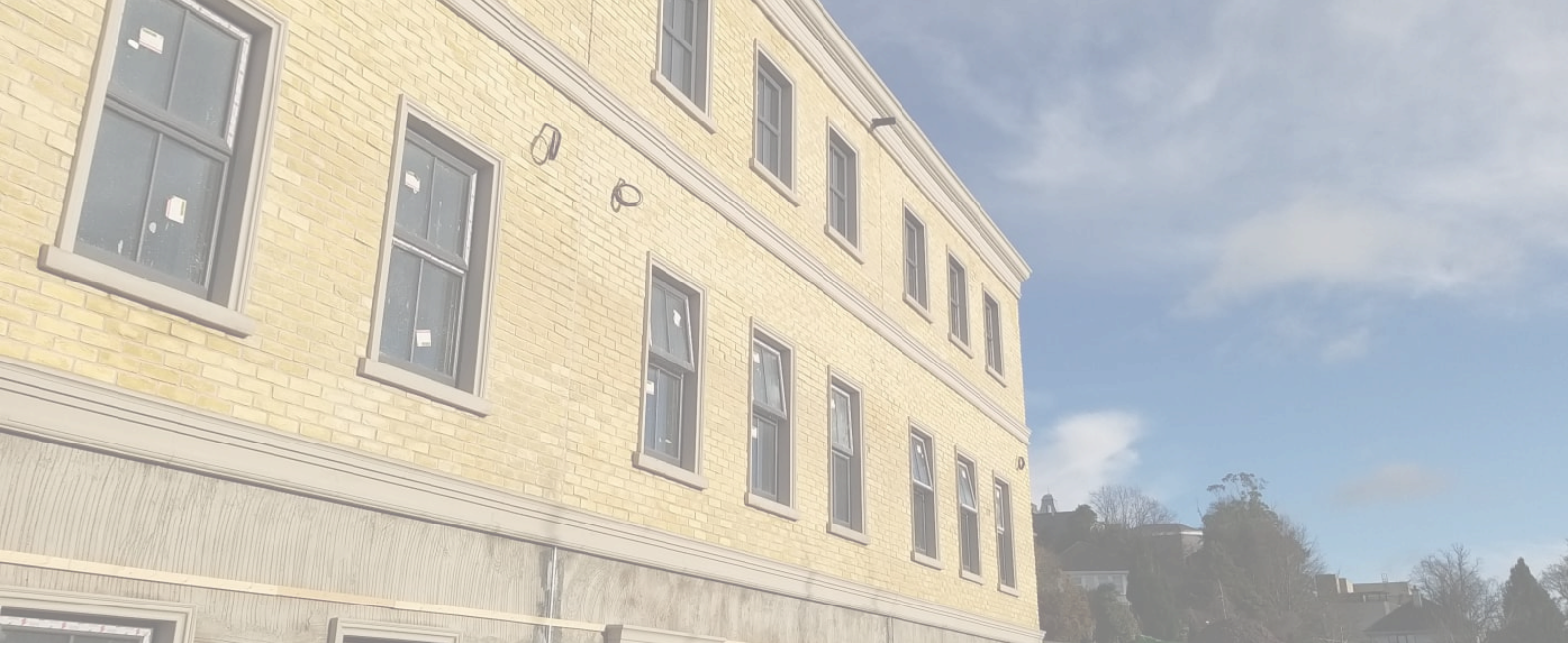
- Wash with mild soap and water, Milton or very mild bleach
- Protect a natural stone finish annually using our Mouldings sealer; other sealers may contain solvents, which could damage your product
- Ensure painted finishes are maintained and re-painted when necessary.

### Don'ts:

- Use excessive force when cleaning your product.
- Use paint thinners, lacquer thinner, gasoline, kerosene or any other harsh chemical to clean.
- Use a jet cleaner or power washer.
- Use mechanical fixings when installing mouldings, doing so may make your warranty null and void





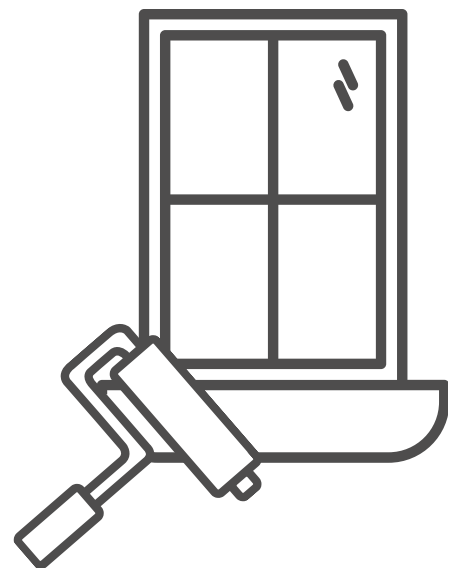


## Apply CCRM Structures Moulding Sealer

As part of maintaining our mouldings, we recommend using our moulding sealer annually/bi-annually. You can order this sealer by emailing us at [info@ccrmstructures.com](mailto:info@ccrmstructures.com).

For applying the sealer, please follow these steps:

1. Make sure the surface of the moulding is clear of dirt and debris. If this moulding is wet, make sure it is fully dry before applying the sealer.
2. Mix the sealer provided by CCRM Structures to a 1:1 ratio with water.
3. With a paintbrush, apply a thin coat of sealer onto your mouldings.
4. Allow this layer of sealer to dry.
5. Repeat steps two and three until three coats of the sealer have been applied.





## Key Points to Remember

- Small scratches and nicks in the resin coating can occur. These small imperfections can be easily repaired using our resin repair kit.
- Your product should be maintained regularly, following the guidelines above.
- If you have any queries in relation to your new products prior to installation, please contact our technical support team.
- Your 10-year warranty will only apply if your product has been correctly installed and regularly maintained; terms and conditions apply

## A Note When Applying Paint Finishes

- We recommend a high-quality, water-based, external paint to both maintain your product and apply paint to the appropriate finishes for the first time
- Prepare the surface with a water-based primer, or a watered-down coat of your paint choice, applied thinly. Follow with a coat of your paint, applied thinly to prevent cracking





## Manufacturer's Storage Guide

- Mouldings must be stored on a flat even surface. Failing to do so may lead to the sills flexing, bending or warping. These sills have excellent compression strength, however, unlike concrete they can flex if not stored to manufacturer's guide lines.
- If this occurs place the product on flat surface and leave. This should lead to the product correcting itself, however this is not guaranteed.
- IF THE PRODUCT REMAINS WARPED DO NOT INSTALL.
- If storing externally, please ensure plastic wrap on the pallet is removed and the products are stored a safe distance away from ongoing construction works.



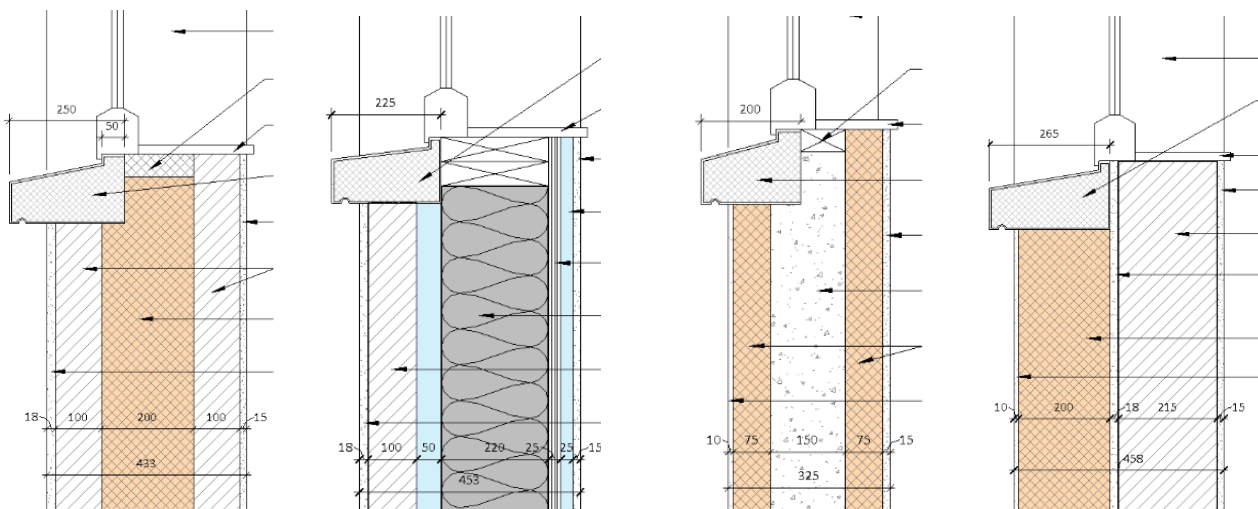
# WINDOW SILLS

## Installation

Installation varies depending on your construction type. We recommend that you install our hybrid CCRM Structures in the same way you would install traditional window sills into your construction type.

This manual includes the following construction type installations:

- Cavity Wall Construction
- Clay Block Installation with 150mm External Insulation
- Clay Block Installation with 200mm External Insulation
- ICF Construction
- Light Gauge Steel with Masonry Outer Leaf
- Monolithic Clay Block 365mm Wall Structure
- SIMS Application with 150mm External Insulation
- SIMS Application with 200mm External Insulation
- Timber Frame Construction with Masonry Outer Leaf





# Cavity Wall Construction

Cavity wall construction involves two parallel walls (known as wythes) separated by a gap or cavity. Insulation materials are placed within the cavity to enhance thermal efficiency, making it a common choice in modern building construction.

## Products Required

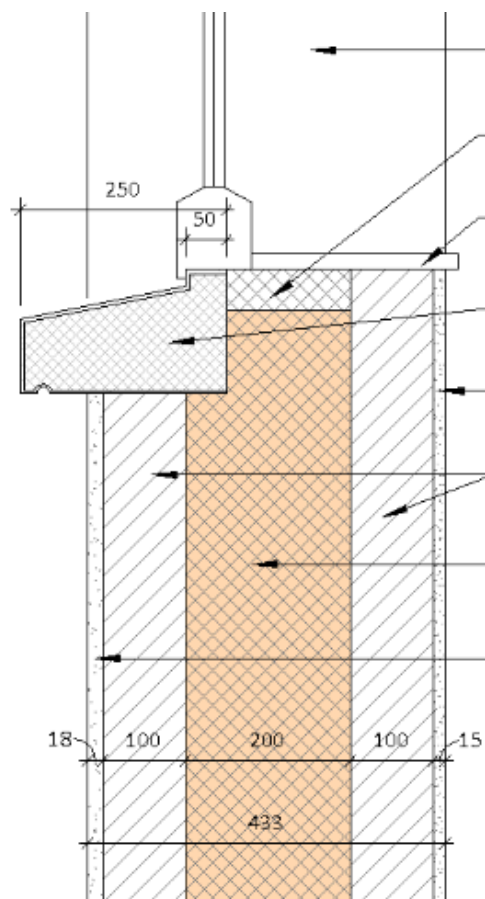
- CCRM Structures **P1** sill
- DPC Membrane
- CCRM Structures Basecoat/Adhesive
- Butile tape
- Mortar

## Tools Required:

- Standard Trowel
- Level
- Measuring Tape

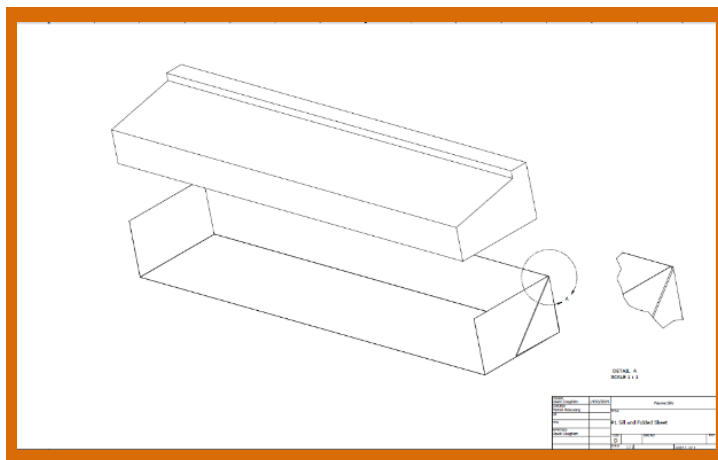
## Measuring:

Measure your window opening. CCRM Structures recommend that the sill extends 75mm at either side of the opening, but no less than 50mm at either side of the opening. Note: you may require a greater measurement at either side of the opening if you intend to add decorative mouldings around the window. This will be determined by the size of the decorative moulding chosen.



## Installation:

1. Prior to installation wrap the sill with DPC membrane – extending from the drip detail at the bottom of the sill all the way around the back to the top of the upstand of the sill. Do this using Butile tape. Carefully fold the DPC around the edges so that it fully comes up and covers the side of the windowsill reaching the top of the upstand. When folding the DPC ensure you fold as shown in the diagram to ensure no water remains trapped in the DPC.



2. Prepare your opening by removing any lumps of mortar or debris from the substrate.
3. Apply an even layer of base coat / adhesive to the substrate.
4. Position the sill on the mortar and make sure that this is level, using a level.
5. Infill the gaps at either side with mortar.
6. DPC should remain untouched until plastering is complete at which time it can be trimmed back, flush with the finished plaster.

# Clay Block Installation with 150mm External Insulation

Clay block construction involves stacking fired clay blocks with mortar to form walls, offering excellent insulation and durability. It's favoured for its eco-friendly nature, durability, and ease of assembly.

## Products Required

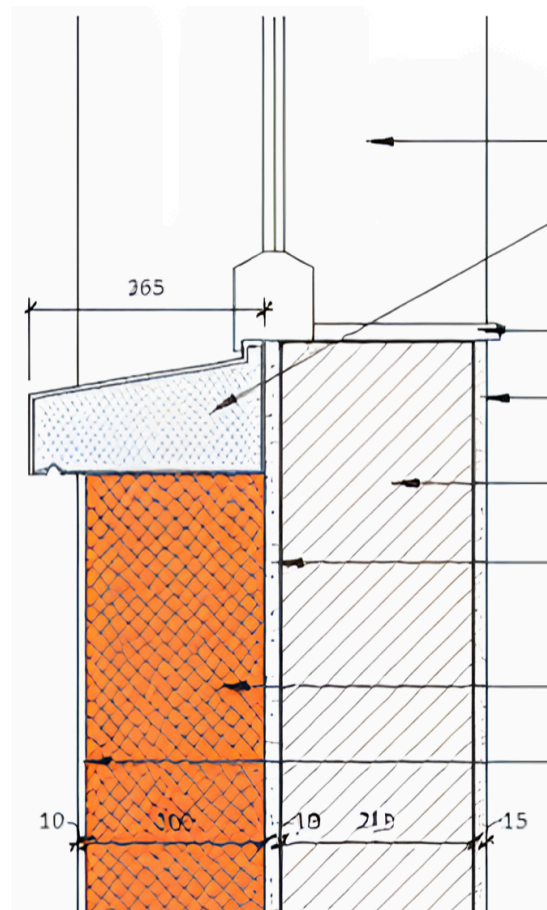
- CCRM Structures **P2** sill
- DPC Membrane
- CCRM Structures Basecoat/Adhesive
- Butile tape
- Mortar

## Tools Required:

- Standard Trowel
- Level
- Measuring Tape

## Measuring:

Measure your window opening. CCRM Structures recommend that the sill extends 75mm at either side of the opening, but no less than 50mm at either side of the opening. Note: you may require a greater measurement at either side of the opening if you intend to add decorative mouldings around the window. This will be determined by the size of the decorative moulding chosen.



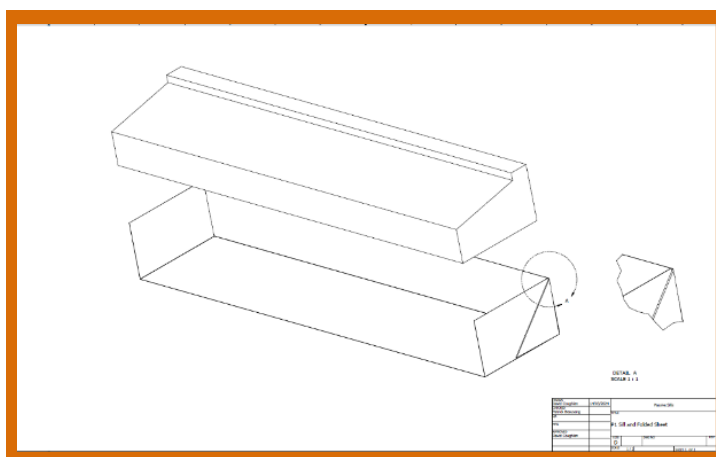


## Installation:

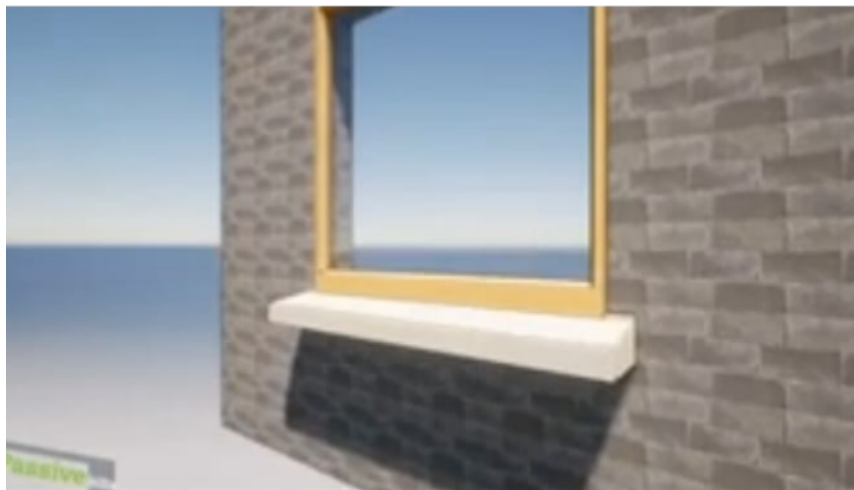
1. In this application the window is fitted prior to the windowsill.
2. The window should be installed with the window projecting 40mm out from the Clay Block prior to installing the windowsill.



3. Prior to installation wrap the sill with DPC membrane – extending from the drip detail at the bottom of the sill all the way around the back to the top of the upstand of the sill. Do this using Butile tape. Carefully fold the DPC around the edges so that it fully comes up and covers the side of the windowsill reaching the top of the upstand. When folding the DPC ensure you fold as shown in the diagram to ensure no water remains trapped in the DPC.



4. Ensure no lumps of mortar or adhesive are projecting out from the clay block which may prevent the sill from fitting under the drip detail of the window.
5. Fit the windowsill up under the window and install external insulation as normal.



6. DPC should remain untouched until plastering is complete at which time it can be trimmed back, flush with the finished plaster.

# Clay Block Installation with 200mm External Insulation

Clay block construction involves stacking fired clay blocks with mortar to form walls, offering excellent insulation and durability. It's favoured for its eco-friendly nature, durability, and ease of assembly.

## Products Required

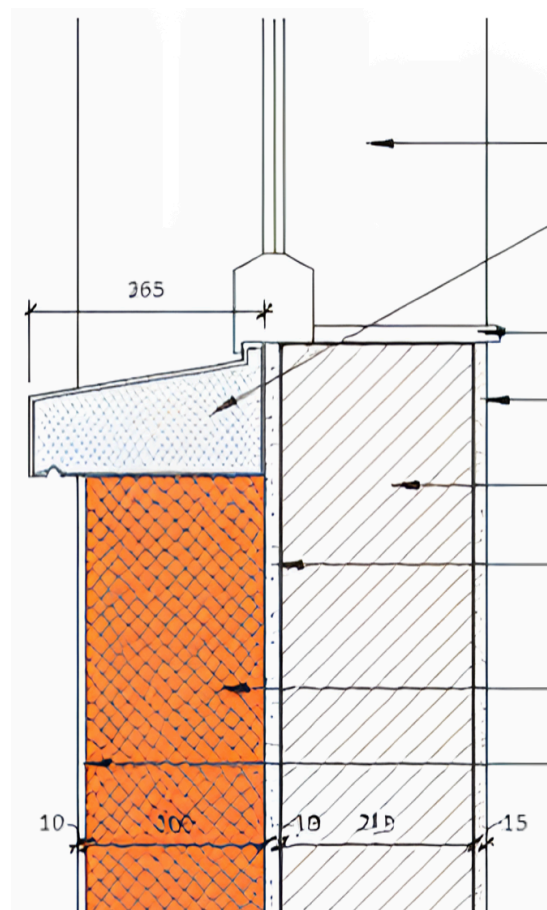
- CCRM Structures **P4** sill
- DPC Membrane
- CCRM Structures Basecoat/Adhesive
- Butile tape
- Mortar

## Tools Required:

- Standard Trowel
- Level
- Measuring Tape

## Measuring:

Measure your window opening. CCRM Structures recommend that the sill extends 75mm at either side of the opening, but no less than 50mm at either side of the opening. Note: you may require a greater measurement at either side of the opening if you intend to add decorative mouldings around the window. This will be determined by the size of the decorative moulding chosen.



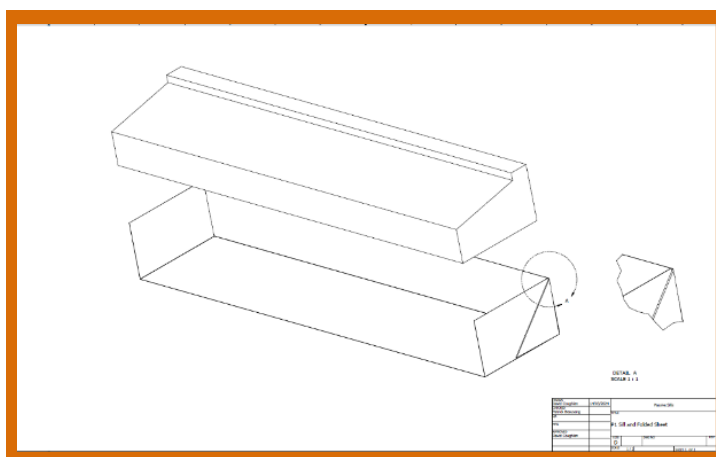


## Installation:

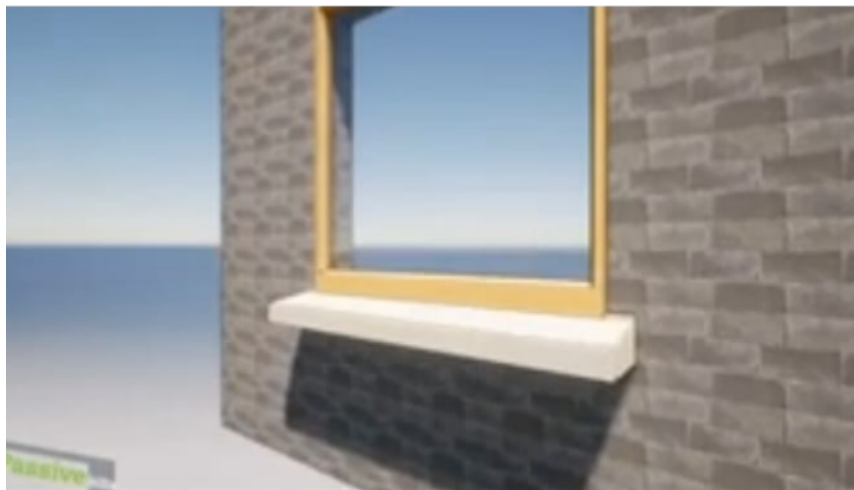
1. In this application the window is fitted prior to the windowsill.
2. The window should be installed with the window projecting 40mm out from the Clay Block prior to installing the windowsill.



3. Prior to installation wrap the sill with DPC membrane – extending from the drip detail at the bottom of the sill all the way around the back to the top of the upstand of the sill. Do this using Butile tape. Carefully fold the DPC around the edges so that it fully comes up and covers the side of the windowsill reaching the top of the upstand. When folding the DPC ensure you fold as shown in the diagram to ensure no water remains trapped in the DPC.



4. Ensure no lumps of mortar or adhesive are projecting out from the clay block which may prevent the sill from fitting under the drip detail of the window.
5. Fit the windowsill up under the window and install external insulation as normal.



6. DPC should remain untouched until plastering is complete at which time it can be trimmed back, flush with the finished plaster.

# ICF Construction

ICF construction uses foam blocks for concrete formwork, providing insulation after the concrete is poured. It's known for energy efficiency and durability.

## Products Required

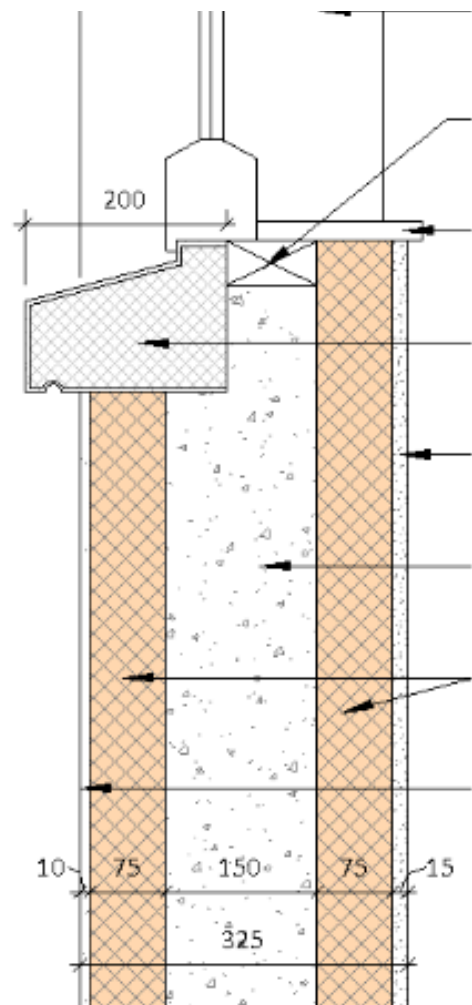
- With ICF construction, we have designed sills specifically for the different ICF systems. The following list shows our recommended sill for the different depths of outer leaf insulation:
  - P1 sill **with Side Wings** – for 100mm outer leaf insulation
  - P9 sill **with Side Wings** – for 75mm-85mm outer leaf insulation
  - P15 sill **with Side Wings** – for 65mm outer leaf insulation
  - P42 sill **with Side Wings** - for 125mm outer leaf insulation
- DPC Membrane
- CCRM Structures Basecoat/Adhesive
- Butile tape
- Mortar

## Tools Required:

- Standard Trowel
- Level
- Measuring Tape

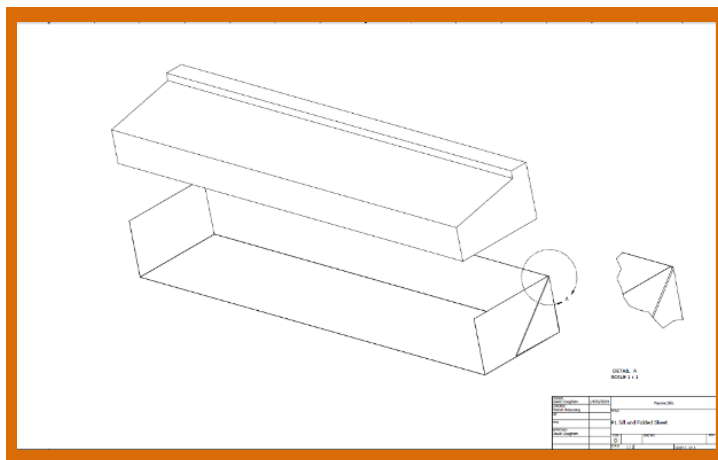
## Measuring:

Measure your window opening. CCRM Structures recommend that the sill extends 75mm at either side of the opening, but no less than 50mm at either side of the opening. Note: you may require a greater measurement at either side of the opening if you intend to add decorative mouldings around the window. This will be determined by the size of the decorative moulding chosen.



## Installation:

1. Prior to installation wrap the sill with DPC membrane – extending from the drip detail at the bottom of the sill all the way around the back to the top of the upstand of the sill. Do this using Butile tape. Carefully fold the DPC around the edges so that it fully comes up and covers the side of the windowsill reaching the top of the upstand. When folding the DPC ensure you fold as shown in the diagram to ensure no water remains trapped in the DPC.



2. Prepare your opening by removing any lumps of mortar or debris from the substrate.
3. Apply an even layer of base coat / adhesive to the substrate.
4. Position the sill on the mortar and make sure that this is level, using a level.
5. Infill the gaps at either side with low expansion foam and ICF offcut which you will cut to suit the size of the void.
6. DPC should remain untouched until plastering is complete at which time it can be trimmed back, flush with the finished plaster.



# Light Gauge Steel with Masonry Outer Leaf

Light gauge steel construction involves using thin steel sections to create the structural framework, with a masonry outer leaf for added strength and durability. This hybrid approach combines the lightweight and flexibility of steel with the robustness of masonry, offering a versatile and efficient building solution.

## Products Required

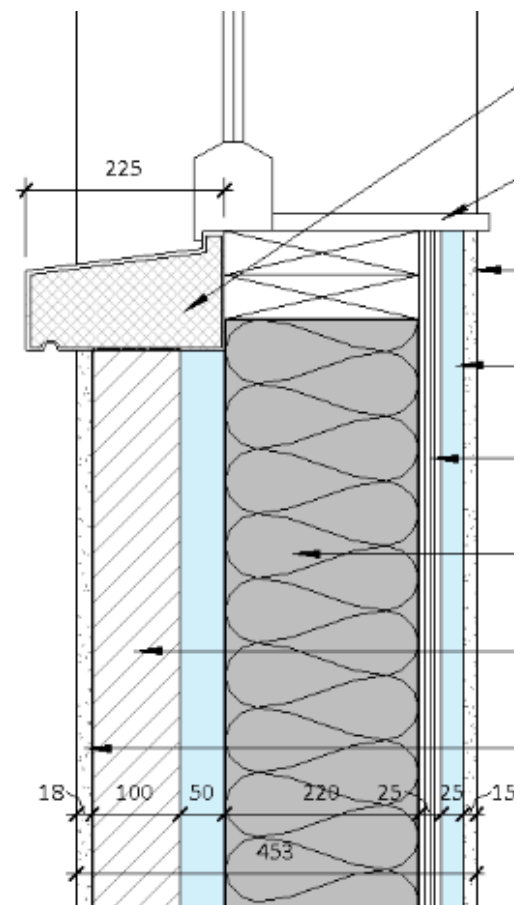
- CCRM Structures **P2** sill
- DPC Membrane
- CCRM Structures Basecoat/Adhesive
- Butile tape
- Mortar

## Tools Required:

- Standard Trowel
- Level
- Measuring Tape

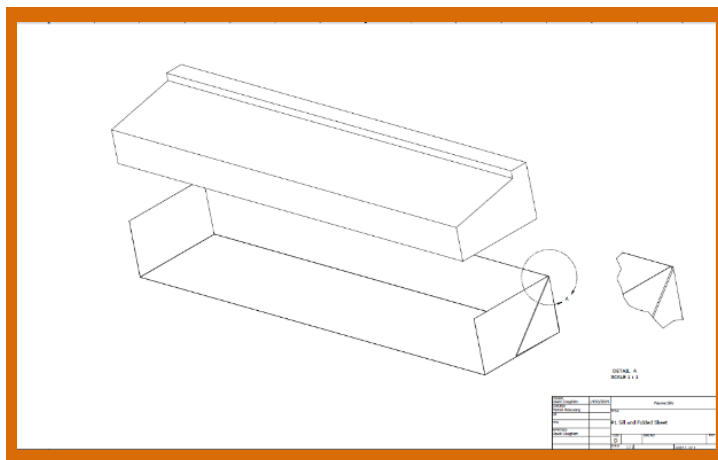
## Measuring:

Measure your window opening. CCRM Structures recommend that the sill extends 75mm at either side of the opening, but no less than 50mm at either side of the opening. Note: you may require a greater measurement at either side of the opening if you intend to add decorative mouldings around the window. This will be determined by the size of the decorative moulding chosen.



## Installation:

1. Prior to installation wrap the sill with DPC membrane – extending from the drip detail at the bottom of the sill all the way around the back to the top of the upstand of the sill. Do this using Butile tape. Carefully fold the DPC around the edges so that it fully comes up and covers the side of the windowsill reaching the top of the upstand. When folding the DPC ensure you fold as shown in the diagram to ensure no water remains trapped in the DPC.



2. Prepare your opening by removing any lumps of mortar or debris from the substrate.
3. Apply an even layer of base coat / adhesive to the substrate.
4. Position the sill on the mortar and make sure that this is level, using a level.
5. Infill the gaps at either side with mortar.
6. DPC should remain untouched until plastering is complete at which time it can be trimmed back, flush with the finished plaster.

# Monolithic Clay Block 365mm Wall Structure

A monolithic clay block 365mm wall structure consists of large clay blocks stacked together without mortar, relying on their precise dimensions for stability. These walls provide excellent thermal insulation and moisture regulation, making them suitable for sustainable and energy-efficient building projects.

## Products Required

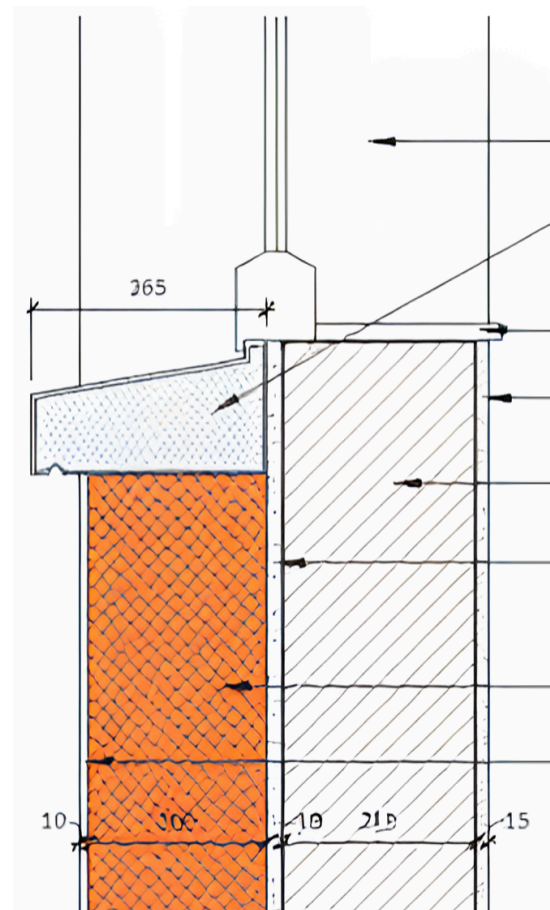
- CCRM Structures **P1** sill
- DPC Membrane
- CCRM Structures Basecoat/Adhesive
- Butile tape
- Mortar

## Tools Required:

- Standard Trowel
- Level
- Measuring Tape

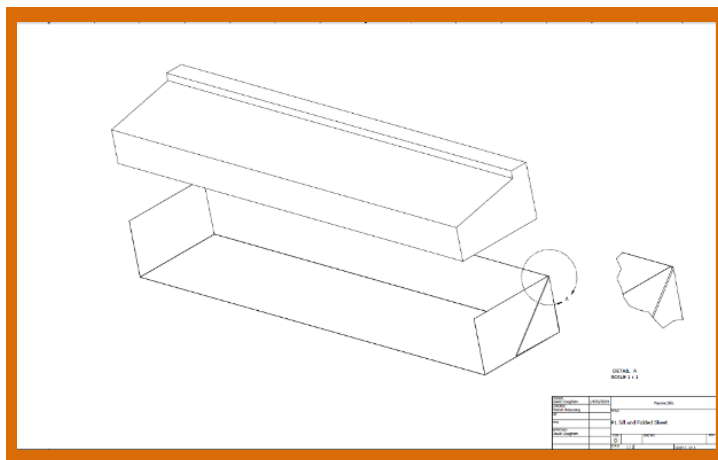
## Measuring:

Measure your window opening. CCRM Structures recommend that the sill extends 75mm at either side of the opening, but no less than 50mm at either side of the opening. Note: you may require a greater measurement at either side of the opening if you intend to add decorative mouldings around the window. This will be determined by the size of the decorative moulding chosen.



## Installation:

1. Prior to installation wrap the sill with DPC membrane – extending from the drip detail at the bottom of the sill all the way around the back to the top of the upstand of the sill. Do this using Butile tape. Carefully fold the DPC around the edges so that it fully comes up and covers the side of the windowsill reaching the top of the upstand. When folding the DPC ensure you fold as shown in the diagram to ensure no water remains trapped in the DPC.



2. Prepare your opening by removing any lumps of mortar or debris from the substrate.
3. Apply an even layer of base coat / adhesive to the substrate.
4. Position the sill on the mortar and make sure that this is level, using a level. The back of the sill should be positioned 160mm from the front face of the clay block.
5. Infill the gaps at either side with mortar.
6. DPC should remain untouched until plastering is complete at which time it can be trimmed back, flush with the finished plaster.



# SIMS Application with 150mm External Insulation

SIMS construction uses pre-fabricated modular units for quick on-site assembly, enhancing energy efficiency and construction speed.

## Products Required

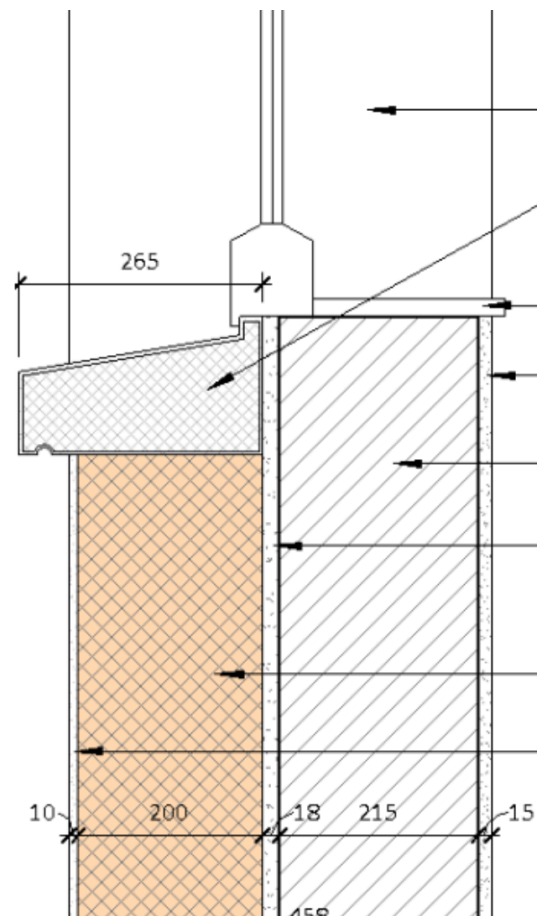
- CCRM Structures **P2** sill
- DPC Membrane
- CCRM Structures Basecoat/Adhesive
- Butile tape
- Mortar

## Tools Required:

- Standard Trowel
- Level
- Measuring Tape

## Measuring:

Measure your window opening. CCRM Structures recommend that the sill extends 75mm at either side of the opening, but no less than 50mm at either side of the opening. Note: you may require a greater measurement at either side of the opening if you intend to add decorative mouldings around the window. This will be determined by the size of the decorative moulding chosen.

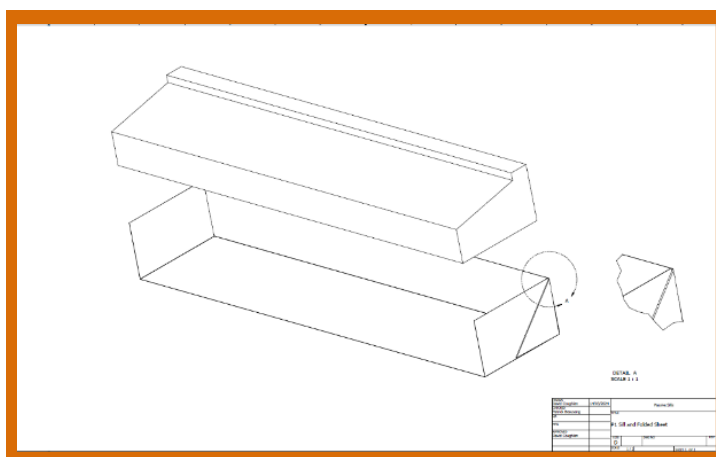


## Installation:

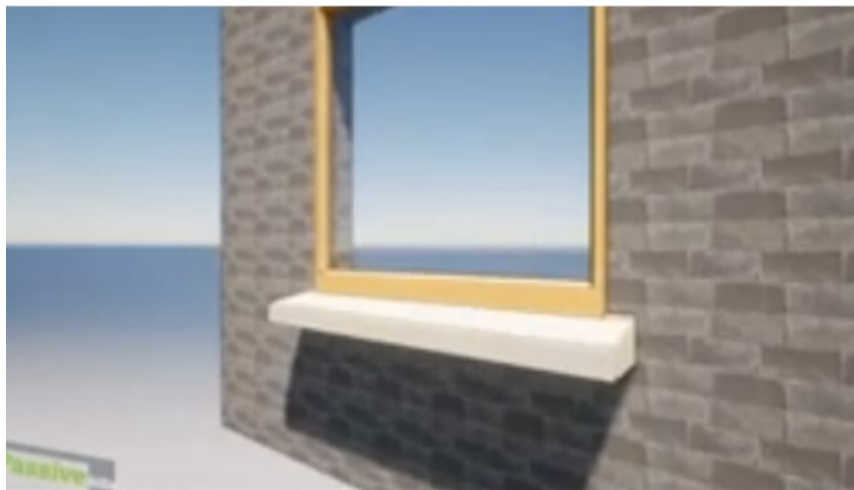
1. In this application the window is fitted prior to the windowsill.
2. The window should be installed with the window projecting 40mm out from the Clay Block prior to installing the windowsill.



3. Prior to installation wrap the sill with DPC membrane – extending from the drip detail at the bottom of the sill all the way around the back to the top of the upstand of the sill. Do this using Butile tape. Carefully fold the DPC around the edges so that it fully comes up and covers the side of the windowsill reaching the top of the upstand. When folding the DPC ensure you fold as shown in the diagram to ensure no water remains trapped in the DPC.



4. Ensure no lumps of mortar or adhesive are projecting out from the clay block which may prevent the sill from fitting under the drip detail of the window.
5. Fit the windowsill up under the window and install external insulation as normal.



6. DPC should remain untouched until plastering is complete at which time it can be trimmed back, flush with the finished plaster.

# SIMS Application with 200mm External Insulation

SIMS construction uses pre-fabricated modular units for quick on-site assembly, enhancing energy efficiency and construction speed.

## Products Required

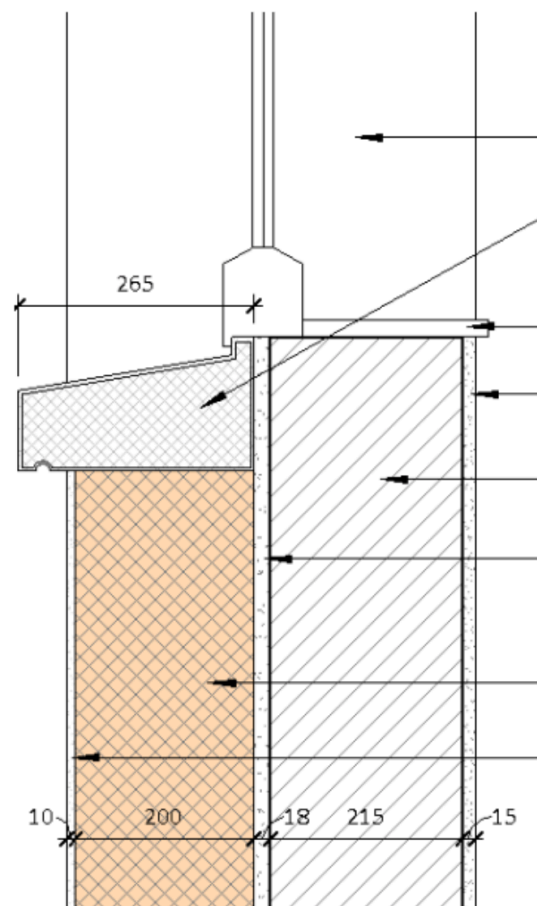
- CCRM Structures **P4** sill
- DPC Membrane
- CCRM Structures Basecoat/Adhesive
- Butile tape
- Mortar

## Tools Required:

- Standard Trowel
- Level
- Measuring Tape

## Measuring:

Measure your window opening. CCRM Structures recommend that the sill extends 75mm at either side of the opening, but no less than 50mm at either side of the opening. Note: you may require a greater measurement at either side of the opening if you intend to add decorative mouldings around the window. This will be determined by the size of the decorative moulding chosen.

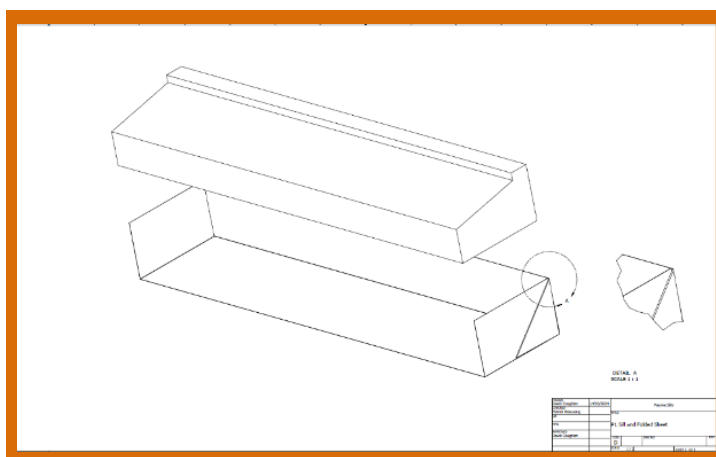


## Installation:

1. In this application the window is fitted prior to the windowsill.
2. The window should be installed with the window projecting 40mm out from the Clay Block prior to installing the windowsill.

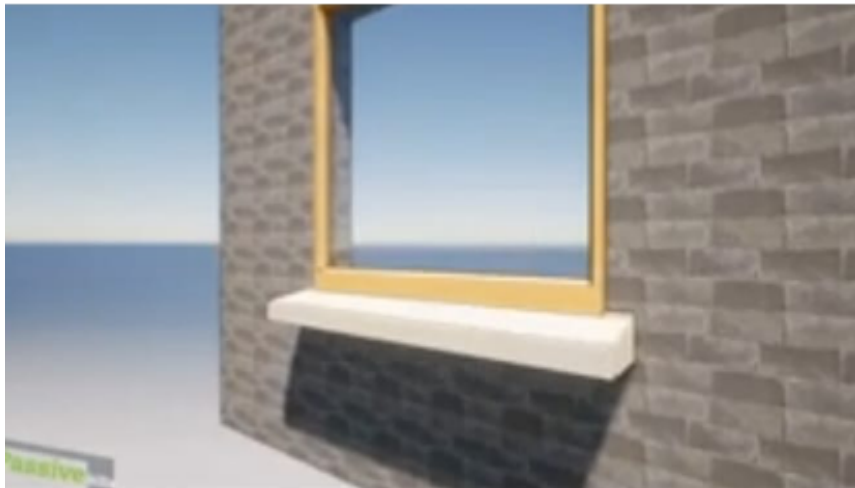


3. Prior to installation wrap the sill with DPC membrane – extending from the drip detail at the bottom of the sill all the way around the back to the top of the upstand of the sill. Do this using Butile tape. Carefully fold the DPC around the edges so that it fully comes up and covers the side of the windowsill reaching the top of the upstand. When folding the DPC ensure you fold as shown in the diagram to ensure no water remains trapped in the DPC.





4. Ensure no lumps of mortar or adhesive are projecting out from the clay block which may prevent the sill from fitting under the drip detail of the window.
5. Fit the windowsill up under the window and install external insulation as normal.



6. DPC should remain untouched until plastering is complete at which time it can be trimmed back, flush with the finished plaster.

# Timber Frame Construction with Masonry Outer Leaf

Timber frame construction involves using wooden beams and panels to create the structural framework of a building, with a masonry outer leaf added for additional strength and aesthetic appeal. This combination offers the warmth and versatility of wood alongside the durability and traditional look of masonry.

## Products Required

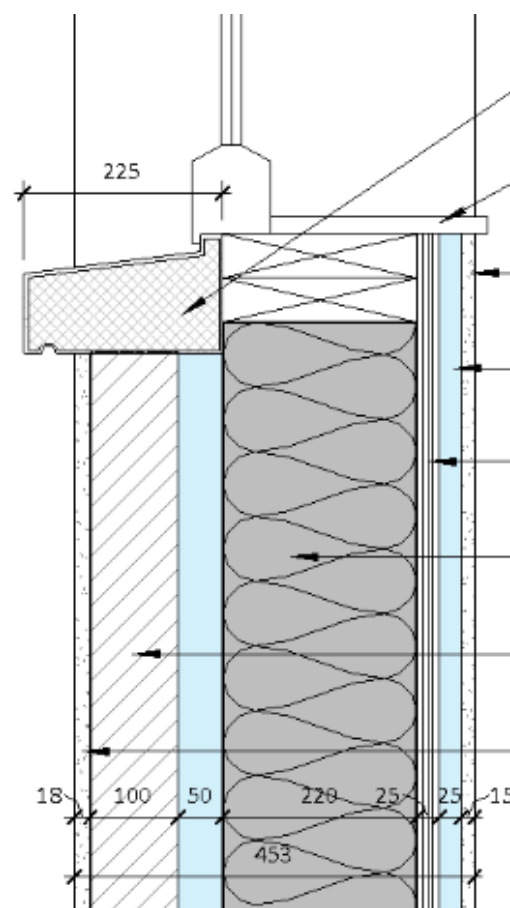
- CCRM Structures **P2** sill
- DPC Membrane
- CCRM Structures Basecoat/Adhesive
- Butile tape
- Mortar

## Tools Required:

- Standard Trowel
- Level
- Measuring Tape

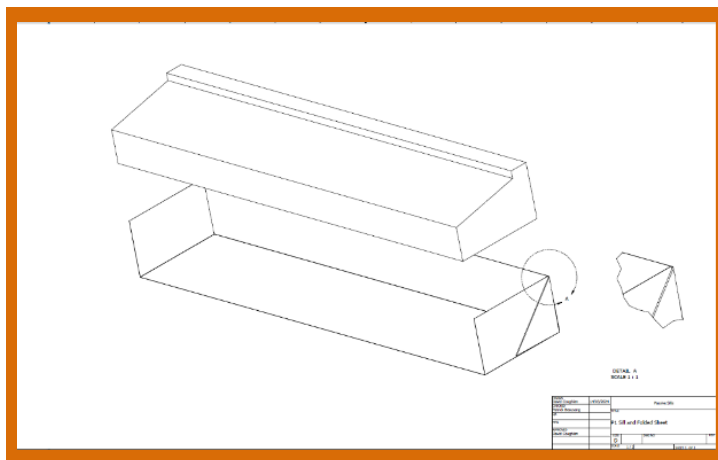
## Measuring:

Measure your window opening. CCRM Structures recommends that the sill extends 75mm at either side of the opening, but no less than 50mm at either side of the opening. Note: you may require a greater measurement at either side of the opening if you intend to add decorative mouldings around the window. This will be determined by the size of the decorative moulding chosen.



## Installation:

1. Prior to installation wrap the sill with DPC membrane – extending from the drip detail at the bottom of the sill all the way around the back to the top of the upstand of the sill. Do this using Butile tape. Carefully fold the DPC around the edges so that it fully comes up and covers the side of the windowsill reaching the top of the upstand. When folding the DPC ensure you fold as shown in the diagram to ensure no water remains trapped in the DPC.



2. Prepare your opening by removing any lumps of mortar or debris from the substrate.
3. Apply an even layer of base coat / adhesive to the substrate.
4. Position the sill on the mortar and make sure that this is level, using a level.
5. Infill the gaps at either side with mortar.
6. DPC should remain untouched until plastering is complete at which time it can be trimmed back, flush with the finished plaster.



## Maintenance

**Annual maintenance of your sills is important for optimal performance. Here are some tips to follow regularly to keep your product looking at its best:**

### Dos:

- Wash with mild soap and water, Milton or very mild bleach
- Ensure painted finishes are maintained and re-painted when necessary.

### Don'ts:

- Don't use excessive force when cleaning your product.
- Don't use paint thinners, lacquer thinner, gasoline, kerosene or any other harsh chemical to clean.
- Don't use a jet cleaner or power washer.

## Key Points to Remember

- Small scratches and nicks in the paint coating can occur. These small imperfections can be easily painted over.
- Your product should be maintained regularly, following the guidelines above.
- If you have any queries in relation to your new products prior to installation, please contact our technical support team.
- Your 10-year warranty will only apply if your product has been correctly installed and regularly maintained; terms and conditions apply





## Manufacturer's Storage Guidelines

- Sills and Oversills must be stored on a flat even surface. Failing to do so may lead to the sills flexing, bending or warping. These sills have excellent compression strength, however, unlike concrete they can flex if not stored to manufacturer's guide lines.
- If this occurs place the product on flat surface and leave. This should lead to the product correcting itself, however this is not guaranteed.
- IF THE PRODUCT REMAINS WARPED DO NOT INSTALL.
- If storing externally, please ensure plastic wrap on the pallet is removed and the products are stored a safe distance away from ongoing construction works.



**CCRM STRUCTURES PRODUCTS COME WITH A 10-YEAR WARRANTY\*\*, PROVIDED PRODUCTS HAVE BEEN CORRECTLY INSTALLED AND REGULARLY MAINTAINED. OUR WARRANTY DOES NOT APPLY IN THE FOLLOWING CIRCUMSTANCES:**

ANY DAMAGE TO PRODUCTS RESULTING FROM:

- NEGLIGENCE OR INCOMPETENT STORAGE OR HANDLING OF PRODUCT
- FAILURE TO INSTALL THE PRODUCTS IN ACCORDANCE WITH INSTALLATION GUIDELINES
- TAMPERING WITH THE COMPOSITION OF THE PRODUCT
- EXTERNAL FACTORS NOT DUE TO THE PRODUCT, IN PARTICULAR FORCE MAJEURE, SUBSIDENCE OF THE BUILDING, ORGANIC CONTAMINATION, HEAVY CONTAMINATION OF THE FACADE SURFACE RESULTING FROM THE UNFAVOURABLE LOCATION OF THE BUILDING
- CONTRACTOR'S ERRORS AT POINT OF INSTALLATION



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