



HomeGuard[®]

Precision Termite Management



Installation Manual

Version 5A
2013

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HomeGuard Precision Termite Management System Overview

Introduction

HomeGuard is an innovative patented Precision Termite Management System that has been developed by FMC Australasia Pty Ltd, a company with a proud reputation for providing effective professional pest management solutions to the Australian pest management industry, for over 15 years.

Under the Australian Standard *AS3660.1 Termite Management Part 1: New building work* HomeGuard is classified as a chemical termite barrier in a non-soil matrix and can be utilised as a physical Termite Management System meeting the 'Deemed-to-Satisfy' requirements of the Building Code of Australia (BCA) through the Codemark approval (SAIG-07-CM 20003).

Purpose of a Termite Management System

The purpose of a termite management system is defined under Section 2 – Performance criteria of *AS3660.1 Termite Management Part 1: New building work* as – 'A termite barrier system shall deter concealed entry to the building by termites'. The purpose of HomeGuard is to deprive subterranean termites' possible entry into the structure via concealed access. A regular inspection regime is required to identify the possible bridging of a Termite Management System and so minimise the potential for damage to the structure.



Features	Benefits
Triple Whammy Effect	PROTECTS – Physically protects the structure from subterranean termite attack REPELS – Repels termites away from the barrier KILLS - Termites will die if they come into contact with HomeGuard products for an extended period of time.
APVMA Registered	Was the first physical termite barrier to be registered with the APVMA
Polymers are Impregnated with Biflex	The ONLY physical barrier which contains a REGISTERED TERMITICIDE – Biflex- which has had a long and successful existence as a registered liquid termiticide in Australia
Codemark Accredited	Codemark approval ensures that the whole HomeGuard system meets the full requirements of the Building Code of Australia (BCA)
HIA Greensmart Member	Greensmart Accreditation recognises that all HomeGuard products are environmentally friendly
Versatile Product Range	HomeGuard's Range of products is designed suit to many types of installations and building types.
Installer Friendly	Non- Sensitizing with no sharp edge. Can be heat sealed for durability
Highly Durable Design	Designed as a tough and flexible barrier, it will not delaminate, split or tear, is non-corrosive and is designed to last the life of the building.
Proudly Australian Made	Designed and manufactured in Australia from local and imported materials
Perfect Consistency	The physical characteristics of HomeGuard ensure that there is an even and consistent distribution of the termiticide active ingredient throughout the entire polymer matrix

HomeGuard Products

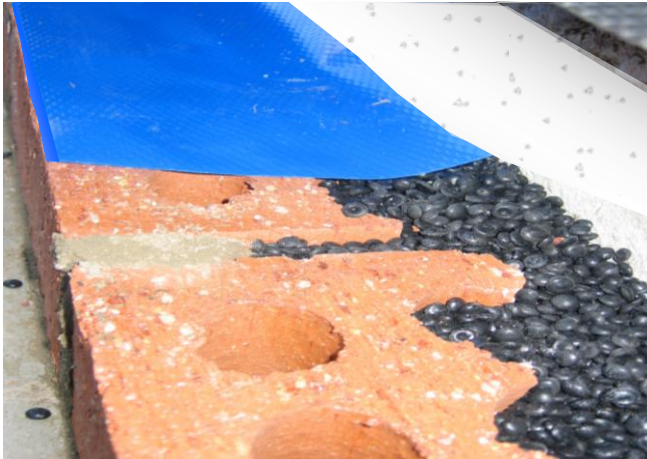
HomeGuard TMB



HomeGuard DPC



HomeGuard GT with HG Blue cover strip



HomeGuard Collars



HomeGuard Blue





CODEMARK™

CERTIFICATE OF CONFORMITY



This is to certify that

HomeGuard Precision Termite Management System

Product description

HomeGuard TMB, 0.2mm sheet with Bifenithrin incorporated, for underslab installations and joints.

HomeGuard DPC, 0.5mm sheet with Bifenithrin incorporated, for perimeter (cavity) installations.

HomeGuard Blue, 0.25mm sheet with Bifenithrin incorporated for perimeter (cavity) installations.

HomeGuard GT, Granules with Bifenithrin incorporated in it, for perimeter (cavity) installations.

HomeGuard Collars (40mm 50mm, 80mm, 100mm), Rigid plastic collars with Bifenithrin incorporated, for penetrations

Product purpose or use

An underslab, perimeter and penetration system to deter concealed entry by subterranean termites into a building.

Certificate holder

FMC Australasia Pty Ltd
 ABN 45 095 326 891
 26/8 Metroplex Avenue
 Murrarie QLD 4172

Codemark certification body

SAI Global Certification Services Pty Limited
 (ACN 108 716 669) Trading as "SAI Global"
 JAS-ANZ Accreditation No. Z1440295AS
 Address: 286 Sussex Street, Sydney, NSW 2000
 Website: www.saiglobal.com

Complies with the Building Code of Australia (BCA):

- Volume One: BP1.1 and BP1.2 (limited only to actions by subterranean termites)
- Volume Two: P2.1 (limited only to actions by subterranean termites)
- State Additions: Volume Two: QLD P2.1.1 (limited only to actions by subterranean termites)

Subject to the following conditions and limitations:

- The FMC HomeGuard Precision Termite Management System is to be installed by licensed installers trained and approved by FMC Australasia Pty Ltd.
- The FMC HomeGuard Precision Termite Management System is to be installed in accordance with FMC HomeGuard installation manual (Version 4 2010).
- The 0.25mm, 0.5mm thick HomeGuard sheet and the HomeGuard GT when used across a perimeter cavity treatment must finish at least 75mm above the surrounding finished ground level.
- In all cases a cover strip is to be laid on top of the HomeGuard GT barrier course of bricks so that the cover strip extends at least 20mm over the top of the granules and is within contact with the granules as specified in the Installation Manual.
- Penetrations of a different size to the preformed HomeGuard collar are to be protected using the HomeGuard sheet collars made as described in the installation manual
- The HomeGuard collars are not to be glued to any of the penetrations that they protect as described in the installation manual. When used in conjunction with a concrete slab, the concrete slab must be designed and constructed in accordance with the requirements of AS 2870-1996 Residential slabs and footings (as amended up to and including Amendment 4) or AS 3600-2001 - Concrete Structures (as amended up to and including Amendment 2).
- Inspections are undertaken annually in accordance with the FMC HomeGuard installation manual to determine that no bridging or breaching of the barrier has occurred.

Alex Ezrakovich

Unrestricted Building Certifier

General manager Certification
 For and on behalf of SAI Global

P. Bank

Certificate Number

18/07/2013

19/07/2010

CM20003



WWW.JAS-ANZ.ORG/REGISTER

- This Certificate of Conformity is issued under arrangement with JAS-ANZ. The ABCB does not in any way warrant or represent that the Product the subject of this Certificate of Conformity conforms with the BCA, nor accepts any liability arising out of the use of the Product.
- It is advised to check that this Certificate of Conformity is currently valid and not withdrawn, suspended or superseded by a later issue by referring to the ABCB website, www.abcb.gov.au.

Installation Guide

The following illustration diagrams indicate the most common situations where HomeGuard can be installed. The diagrams should be used as a guide to the correct installation of HomeGuard.

HomeGuard may be installed as a complete under-slab treatment providing both termite and moisture protection or as flexible termite management measures that can be used as part of a complete Termite Management System. If HomeGuard is used in combination with a concrete slab, the slab must be poured in accordance with AS2870 (Residential slabs and footings construction). The leading edge of the slab must be smooth and level with any rough edges made good to ensure HomeGuard is in direct contact with the concrete slab at all times. Additionally, where the leading edge of the slab is undulating, the installer must ensure that there is continuous contact of HomeGuard with the slab so as to ensure the integrity of the barrier is maintained.

Site preparation

Prior to installation it is recommended that site inspection is carried out and the following activities be undertaken

- Eliminate active nests of wood feeding subterranean termite species within 50m from the proposed building work.
- All tree stumps, roots and logs should be removed from the building footprint.
- All timber off-cuts, debris, removable framework (falsework) and other waste material should be removed from the area where HomeGuard is to be installed.

Prior to installing HomeGuard TMB in a full under slab situation;

- Ensure that all under slab ground works are completed – electrical, water etc.
- Ensure that bedding sand preparation is completed.
- Check and remove any foreign objects that may compromise the integrity of the sheet.

Joining of HomeGuard Sheets

- HomeGuard DPC and HomeGuard Blue perimeter applications must be joined in a straight run of wall. The minimum required overlap when joining sheets is 200mm.
- Pre-made corners should have an overlap of 200mm minimum.
- HomeGuard TMB requires a minimum overlap of 200mm. Joins must be held in place until such time as the concrete slab is poured. Use of cloth tape or approved adhesive to secure the overlap is a requirement.

Repair Patches to HomeGuard Sheet Products.

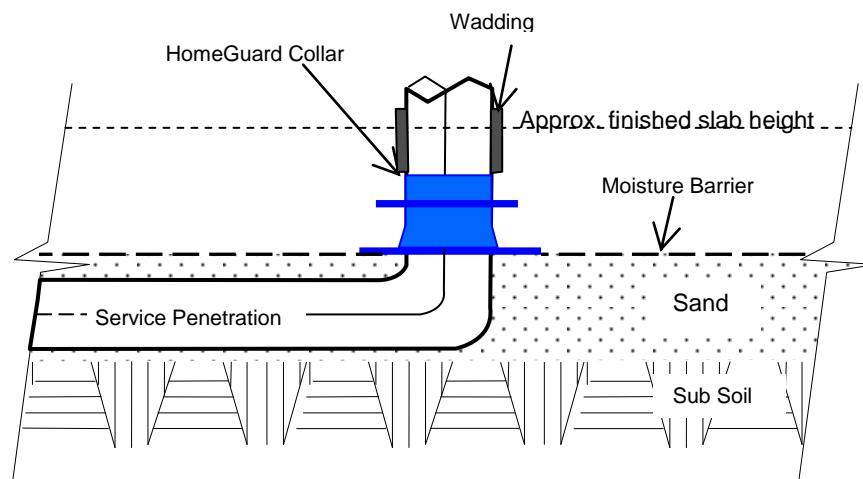
If at any time a section of HomeGuard sheet is damaged in such a way as to result in a hole, cut or tear then a patch needs to be applied.

- The patch is to be constructed from the same grade of sheet as that which has been damaged. (i.e: HomeGuard Blue patch to fix a hole in HomeGuard Blue)
- Where practical, the patch needs to exceed the damaged area by at least 100 mm in all directions.
- The patch needs to be attached to the HomeGuard sheet using a bonding agent such as cloth tape or approved adhesive glue.

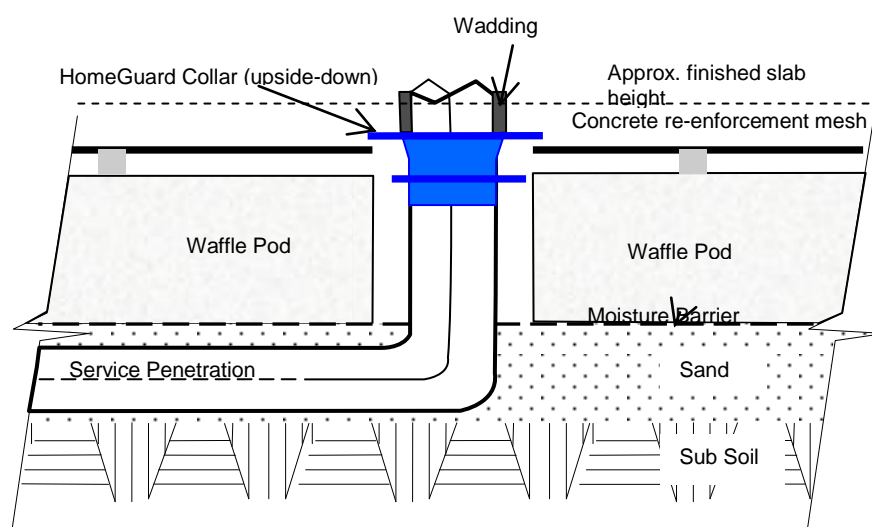
Service penetrations

HomeGuard Pre- Formed Collars (SP1)

- Slip the collar over the penetration pipe and push down to a depth where it will be fully contained within the concrete
- Do not glue the collars to the pipes
- Install prior to pouring of the concrete slab
- Reinforcing mesh should be cut clear of the penetration pipe to allow the collar to be positioned correctly
- HomeGuard Collar warning tape should be attached vertically to penetrations



- In some installations the collar can be turned upside down and installed with the large flange pointing up. This is particularly useful on Waffle pod constructions or where close tolerances exist between the mesh and the collar and where the collar can be integrated with the reinforcing mesh
- In all cases the installed collar must be fully contained within the concrete slab
- Ensure that any wadding placed over the pipe is replaced after the collar is installed.



HomeGuard sheet Collar (SP2).

Ensure that the HomeGuard sheet collar is constructed using the same grade of HomeGuard sheet as it is being adhered to. (ie: HomeGuard Blue or DPC for perimeter cavity penetrations)

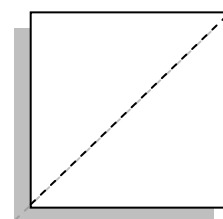
Materials Required:

1 x piece of HomeGuard sheet - 300mm x 300mm
1 x piece of HomeGuard sheet - 300mm x 300mm
1 x piece of HomeGuard sheet - 300mm x 50mm

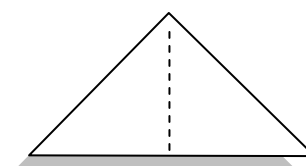
2 x cable ties
Stanley knife
Quality Scissors
Side cutters
Approved cloth tape/spray adhesive
Measuring Tape
Marking pen

To create penetration holes:

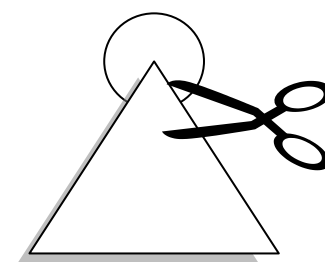
Step 1: Fold piece in half, corner to corner.



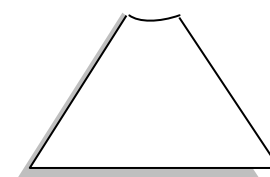
Step 2: Fold piece in half again.



Step 3: Place the multi folded corner over the penetration pipe to cover 1/3 of the hole and make a mark around the external perimeter of the pipe on the HomeGuard sheet. The resultant hole should be slightly smaller than the penetration diameter



Step 4: Cut around mark on the HomeGuard sheet.



Step 5: Repeat the process on the second piece.

To install a HomeGuard sheet collar:

Step 1: Stretch the 300mm x 300mm cut piece over the penetration and locate neatly on the moisture membrane.

Step 2: Use an appropriate adhesive or bonding agent such as cloth tape to secure the piece in place.

Step 3: Wrap the 300mm x 50mm strip around the pipe and secure with a section of cloth tape.

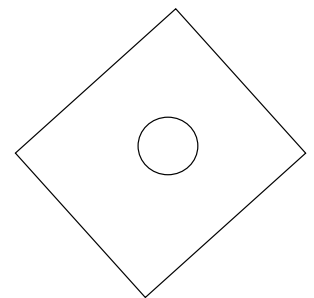
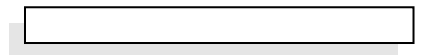
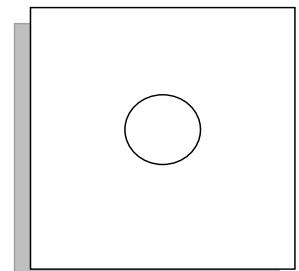
Step 4: Stretch the 300mm x 300mm cut piece over the penetration pipe and the newly formed collar and locate neatly on the moisture membrane at 45° to the first sheet.

Step 5: Use an appropriate adhesive or bonding agent such as cloth tape to secure the piece in place.

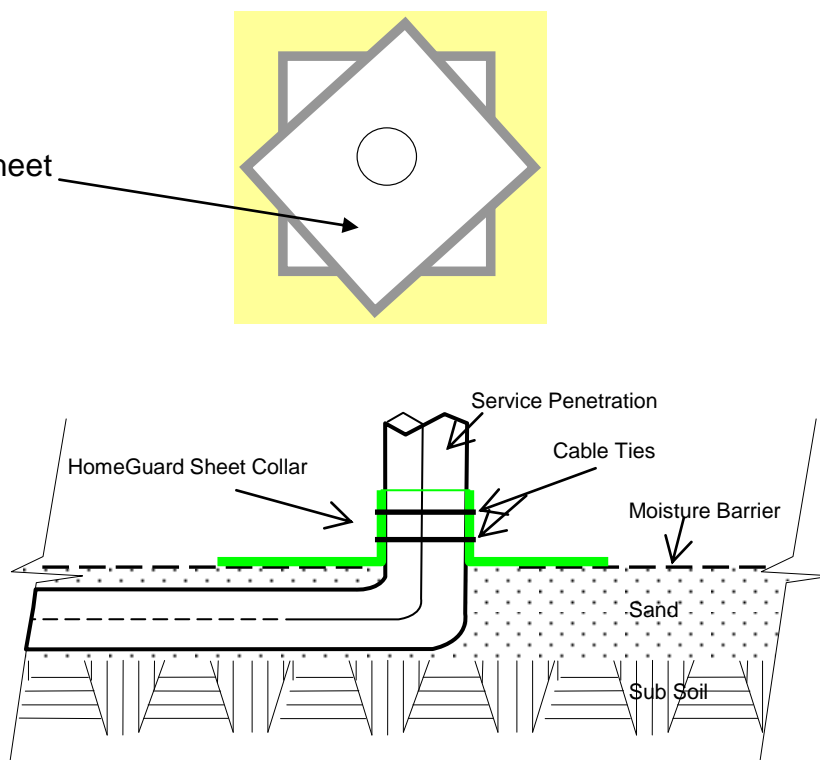
Step 6: Fix the 2 x cable ties – one at the base of the wrap to include the lip of the second cut piece, and the other at the top half of the wrap.

Step 7: Complete a full wrap of cloth tape over the vertical section of the installation.

NOTE: Approved cloth tape may be used in lieu of the spray adhesive. PVC tape may not be used.



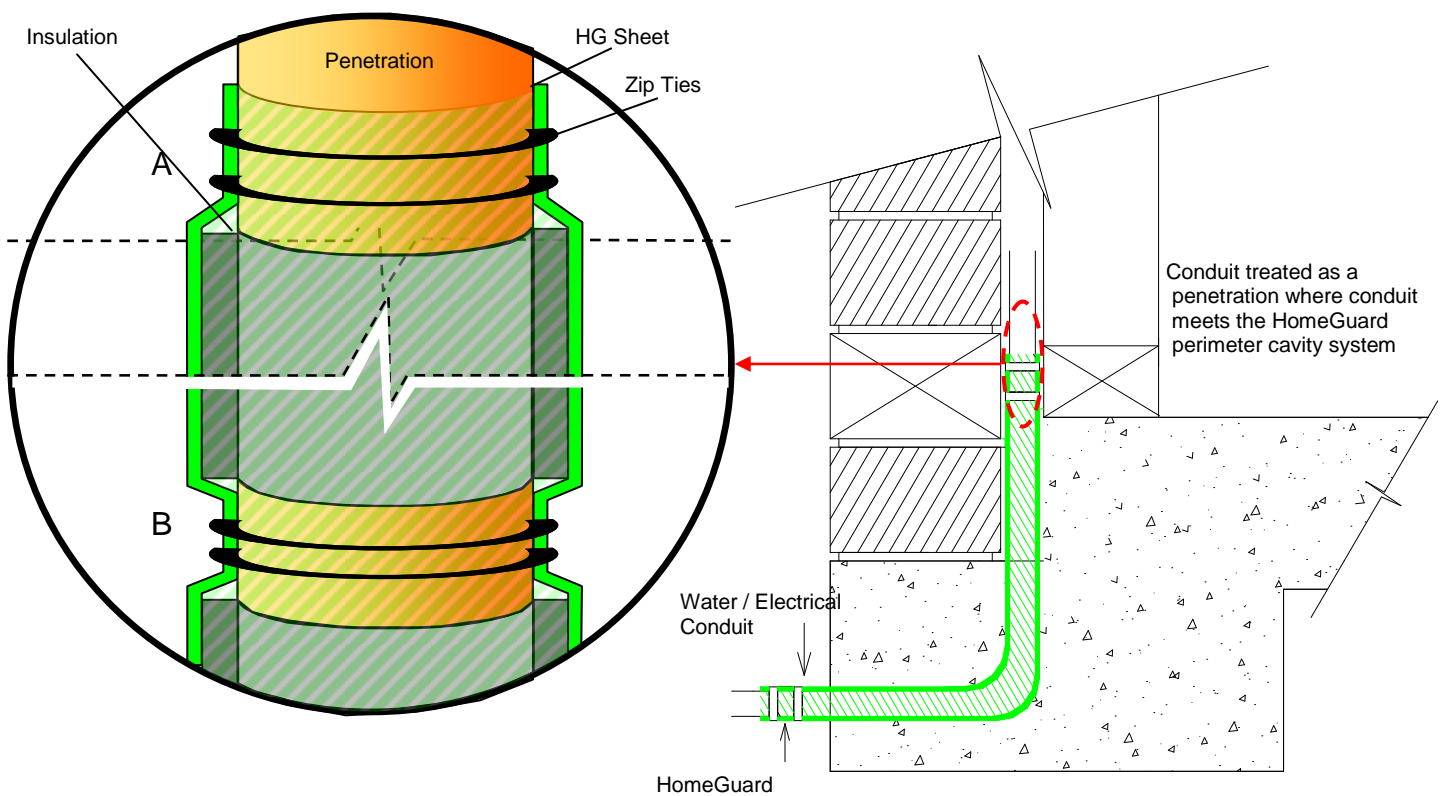
HomeGuard Sheet



Above: Schematic diagram showing the positioning of a HomeGuard Sheet collar before the concrete slab has been poured

Vertical penetrations (SP3)

- Wrap HomeGuard sheet around the vertical and horizontal sections of the penetration
- If lagging/insulation is surrounding the conduit, extend the sheet past each end of the insulation and secure with 2 zip ties (A)
- If a finishing point of the insulation is not accessible, contact the site supervisor and request that a 75mm piece be cut to expose the conduit. Once the penetration is wrapped, use 2 zip ties to clamp the HomeGuard sheet to the exposed conduit (B)
- All vertical penetrations which pass through a HomeGuard perimeter cavity system need to be treated as a penetration and collared accordingly



Multiple penetrations and clusters (SP4)

- Treat each penetration separately ensuring that a minimum of 100mm of HomeGuard sheet extends from each penetration and the HomeGuard sheet is overlapping between each of the penetrations.
- In order to hold the collar in place, affix two zip ties per penetration.
- The HomeGuard sheet collar must be constructed from the same grade HomeGuard sheet as that which the service penetration has penetrated. ie: HomeGuard TMB for full under slab penetrations and HomeGuard DPC or HomeGuard Blue for perimeter cavity penetrations.



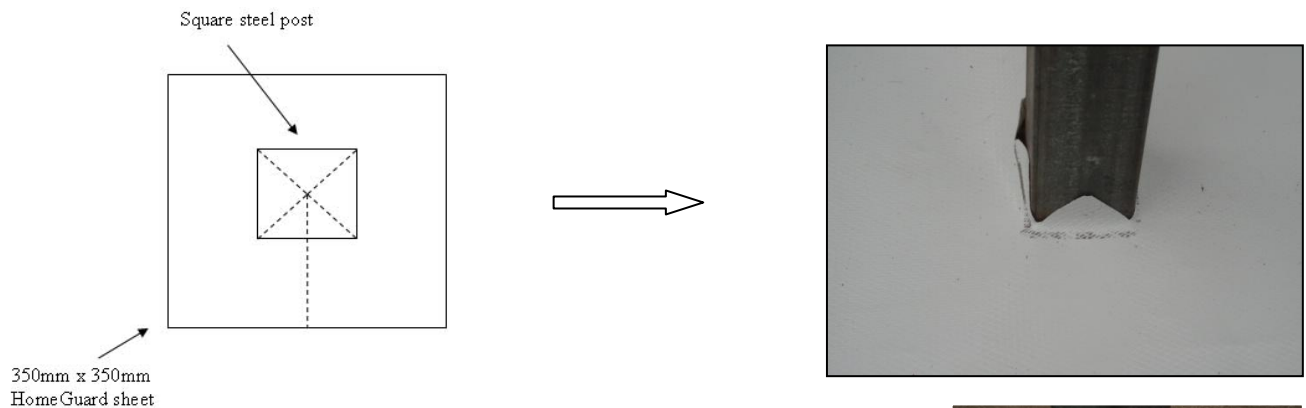
Above: Multiple penetrations in the perimeter cavity using HomeGuard DPC

Steel post collar installations– (SP5)

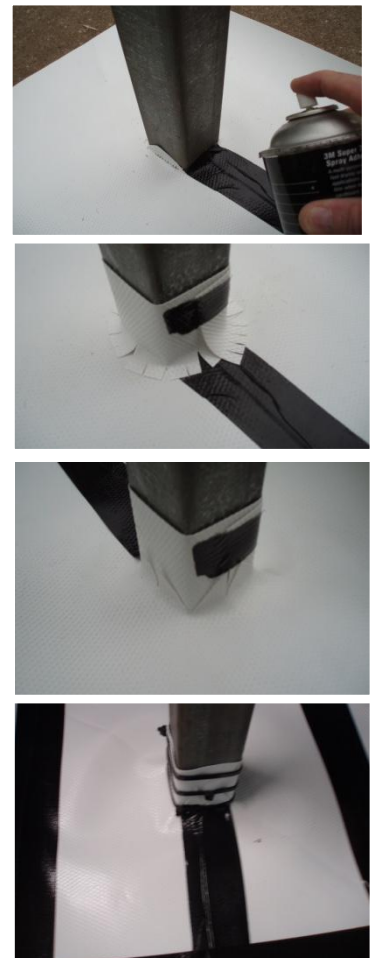
Material to use - This process can be completed using any of the HomeGuard Sheet products

Create penetration collars as per round floor service penetrations with the following variations:

1. Cut 2 x 350mm x 350mm sections of HomeGuard Sheet
2. Trim a strip 350mm x 50mm from the side of one of the sheets
3. Cut each sheet as indicated by the perforated lines on the drawing attached.
4. Make the central cut slightly smaller than the diameter of the post so that the material stretches around the post making a vertical lip in contact with the post so as not to leave any gaps between the post and the concrete.



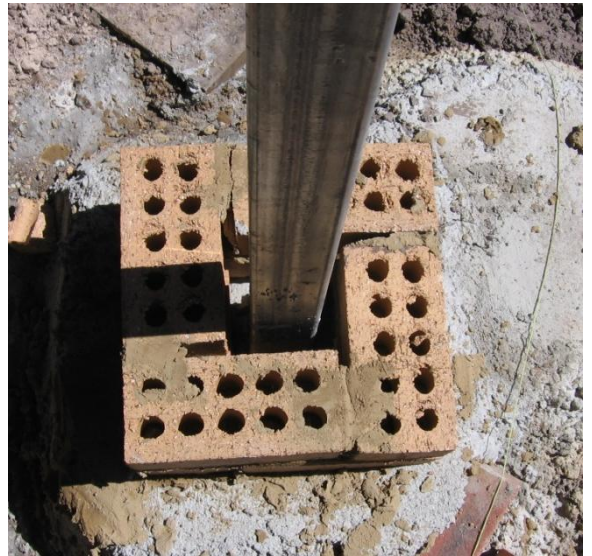
5. Fit the 1st sheet and tape the horizontal seam with cloth tape
6. Spray the 1st 50mm vertical section of the steel post with the approved adhesive and press each of the triangular flaps to the glued surface
7. Wrap the 50mm strip around the post and secure the end with a small piece of adhesive tape – ensuring that the bottom edge is lapped onto the horizontal surface and spray the upper surface of both the horizontal and vertical sheets with spray adhesive
8. Fit the 2nd sheet from the opposite direction as the 1st – so that the seams are overlapped by continuous sheet and press the triangular flaps up the post onto the glued surface of the wrap.
9. Tape the horizontal exposed seam with cloth tape
10. Fix three zip ties around the steel post – 1st at the joint between the horizontal and vertical surfaces and the 2nd around 2/3 of the distance up the wrap on the post and a 3rd at the top of the wrap



Pier protection using HomeGuard GT

To protect the cavity within brick piers:

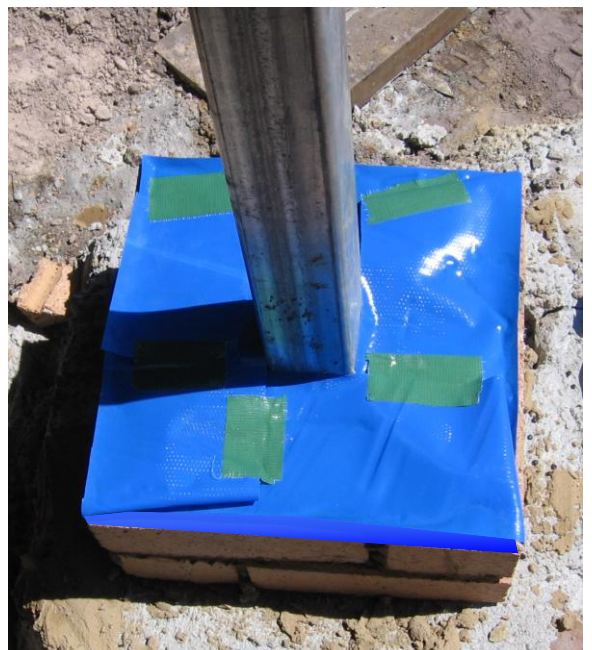
- Request that the bricks are installed to the same level as the damp proof course on the adjoining structure (so to allow for a 75mm inspection zone above all finished surface levels)



- Fill the cavity with HomeGuard GT level with the top of the bricks

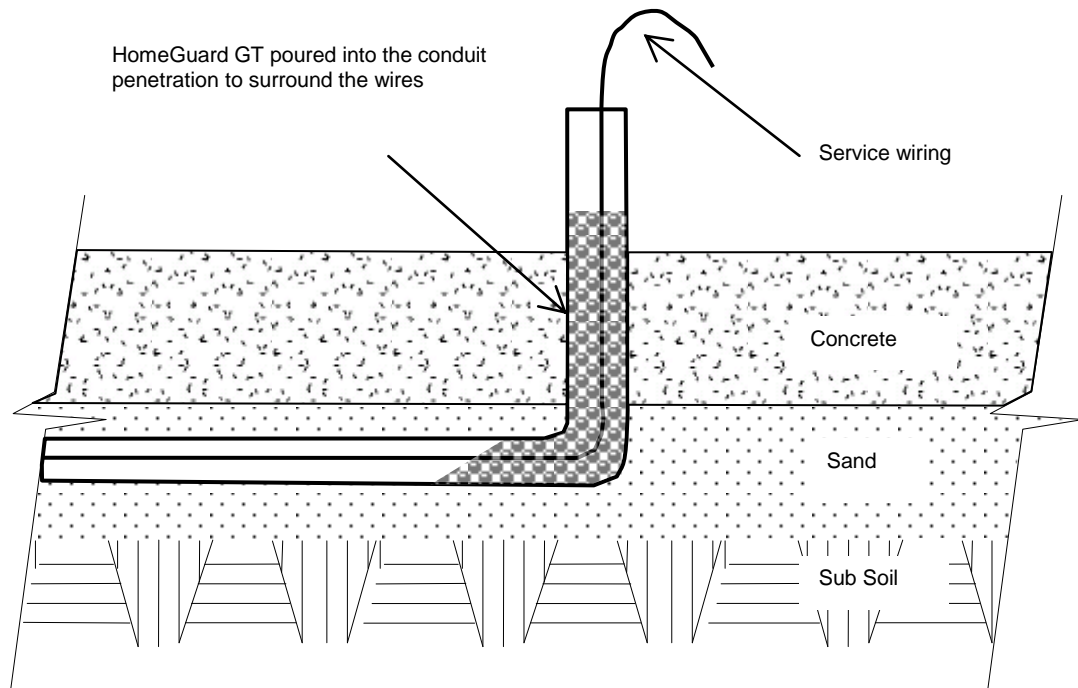


- Install a cover strip of HomeGuard DPC or HomeGuard Blue so to cover the entire width of the bricks



Conduit Void Protection using HomeGuard GT (SP CON)

- Ensure there are no more cables to be pulled through the conduit
- Pour HomeGuard GT down the opening of the conduit until it nearly reaches the top of the opening.
- Gently tap the conduit to settle the granules

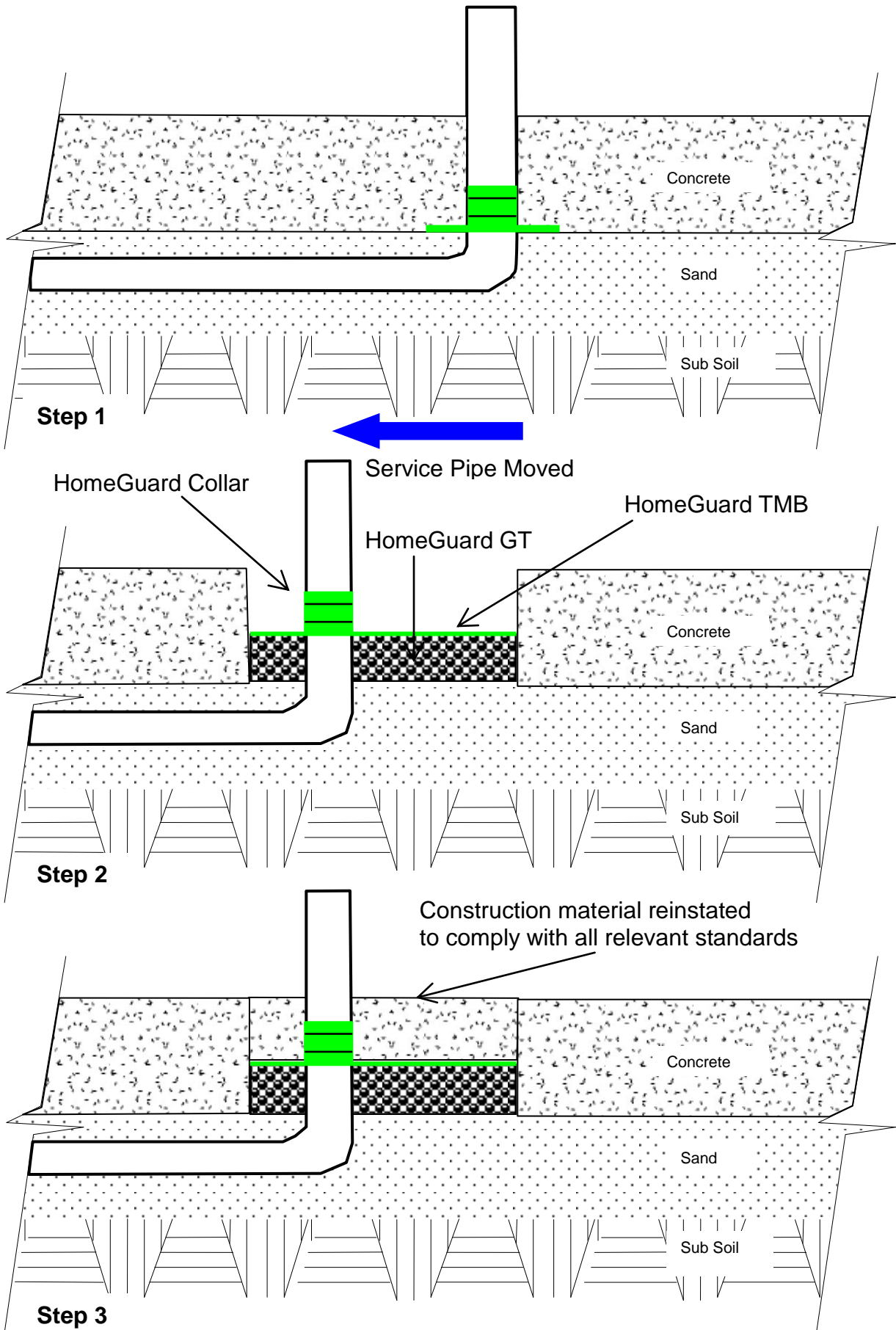


Penetration Changes (SP GT)

Changing the location of the penetration after the slab has been poured will require re-protection. Use HomeGuard GT as follows (and see diagrams over page):

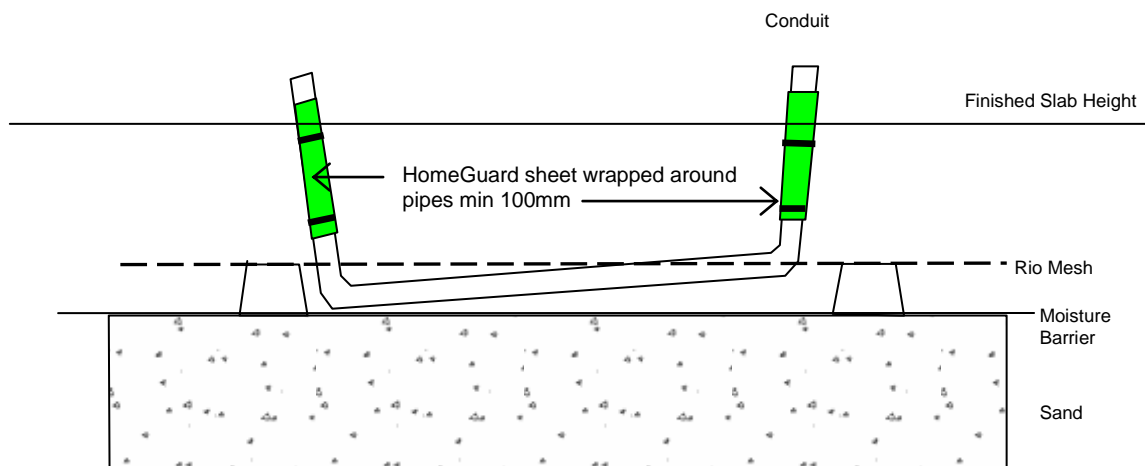
- Contact construction manager or builder prior to performing any installations requiring removal of construction materials (e.g. portions of concrete slab)
- Construction manager and / or builder is responsible for any cutting or removal of construction materials
- Ensure that there will be sufficient depth to apply at least 40mm of GT
- When the base of the void is prepared, install the HomeGuard GT ensuring that all areas around the pipe are encompassed by the granules
- Install the GT to a minimum depth of 40mm
- Replace the HomeGuard collar in the correct position over the service penetration or make a new sheet collar.
- Cut a piece of HomeGuard sheet large enough to cover the area of the GT
- Construction materials can now be reinstated. It is the responsibility of the construction manager or builder to ensure the structural integrity of the construction materials is restored sufficiently to meet all relevant standards and building approvals.
- Ensure that any deep 'over cuts' from the concrete saw are either covered with a piece of HomeGuard sheet or filled with an approved selastic.
- A limited HomeGuard warranty applies for this procedure if the rest of the structure has been installed with HomeGuard according to the manual.

Steps for moving penetrations in set concrete slabs (SPGT)



Internal pipe/conduit wrapping

- Wiring conduits and air-conditioning drip pipes that are installed just prior to the pouring of the slab should be wrapped with HomeGuard sheet to a minimum of 100mm along the ends of each pipe.
- The wraps should be zip tied and taped as per vertical penetrations
- HomeGuard Penetration Warning Tape should be applied to each wrap.



Above: Conduits resting on the moisture membrane have been protected by wrapping the end of each conduit.

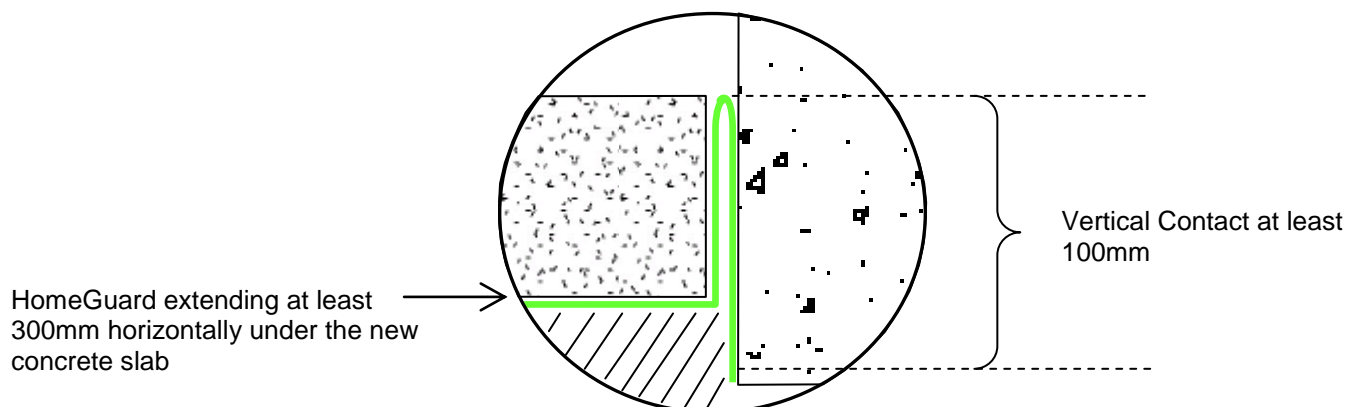
Full Under-Slab Installations

Installation Notes for HomeGuard TMB Full Under-slab Installations

- Ensure that the HomeGuard TMB extends past or is pinned to the inner wall of the formwork allowing sufficient loose sheet to accommodate for the concrete pour.
- HomeGuard TMB is installed after all internal and edge beams have been poured. Lay HomeGuard as a continuous barrier beneath the slab, particularly covering the top of all the internal and edge beams.
- HomeGuard TMB sheet should extend at least 200mm beyond the perimeter of the slab to allow for perimeter attachments such as slab edge rebates or exposed slab edges.
- TMB is to be laid over the bedding sand and up any vertical surfaces and over the top of the inner edge of the knockout block (eg: FU7)

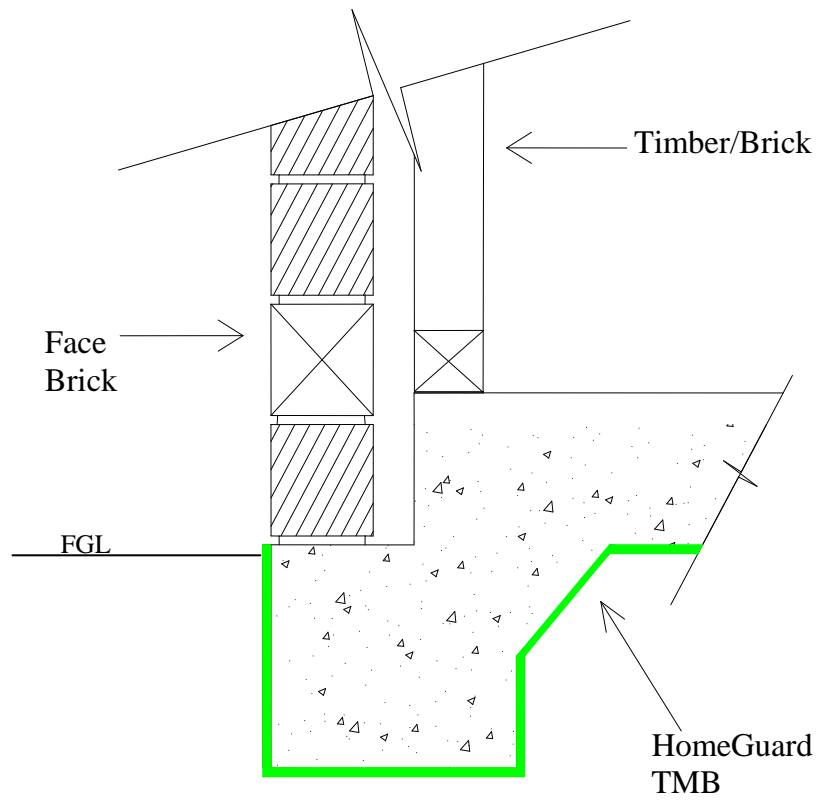
IMPORTANT

- The following drawings assume that a full and continuous HomeGuard perimeter barrier will be installed
- When installing HomeGuard between a joint of two separate concrete slabs, the HomeGuard sheet must be folded over on itself to create an 'envelope' effect. The sheet must be secured to the surface of the original slab with concrete clouts (300mm centres) and a continuous bead of approved adhesive in line with the adhesive. The original slab needs to be smooth and free of gaps, holes, creases etc. The vertical section in contact with the original wall should be at least 100mm in depth. HomeGuard Sheet must run at least 300mm horizontally under the new concrete slab. Throughout this manual, this specification will be highlighted with the use of the symbol below. *(Please note: This requirement applies to various HomeGuard applications not just TMB and underslab)*

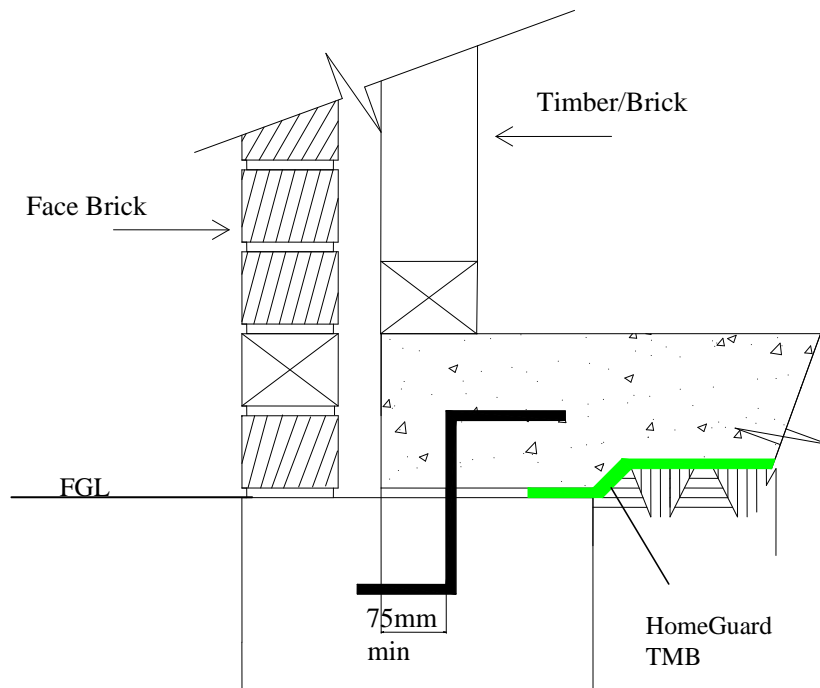


Above: Symbol indicating where the HomeGuard Sheet is required to be folded over

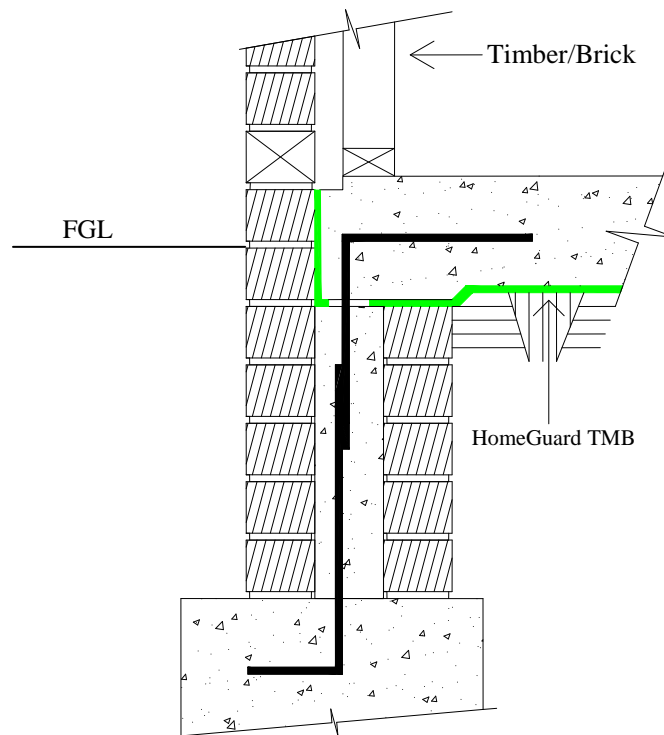
Full under-slab- monolithic slab (FU1)



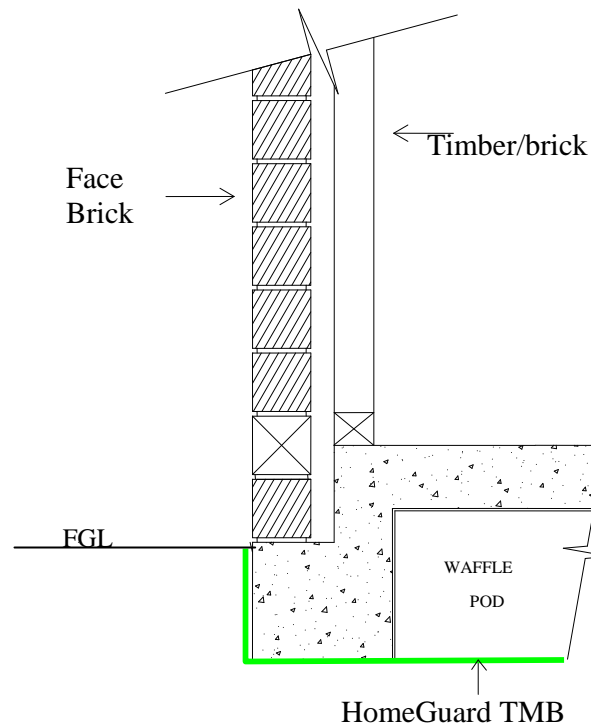
Full under-slab- Tied monolithic (FU2)



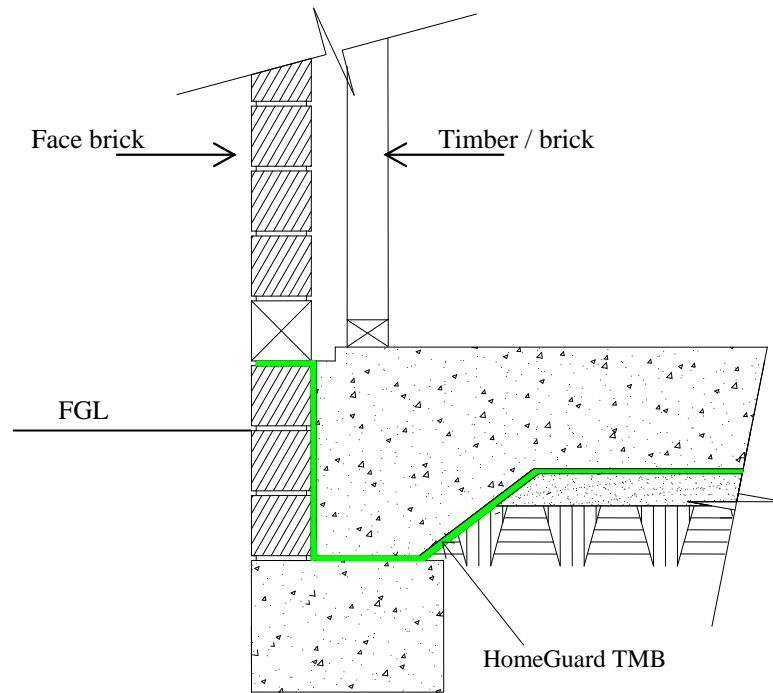
Stiffened slab with edge beam – monolithic (FU3)



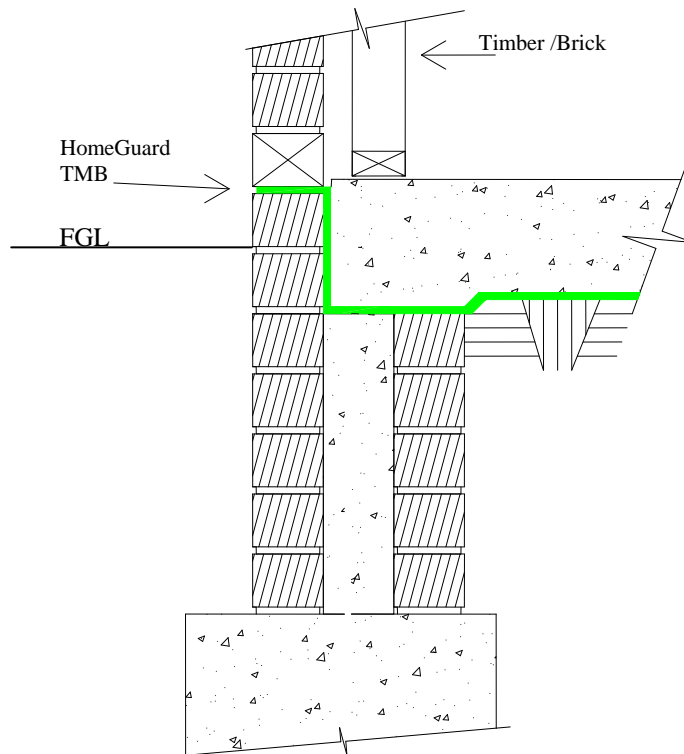
Waffle Pod - Full under-slab (FU4)



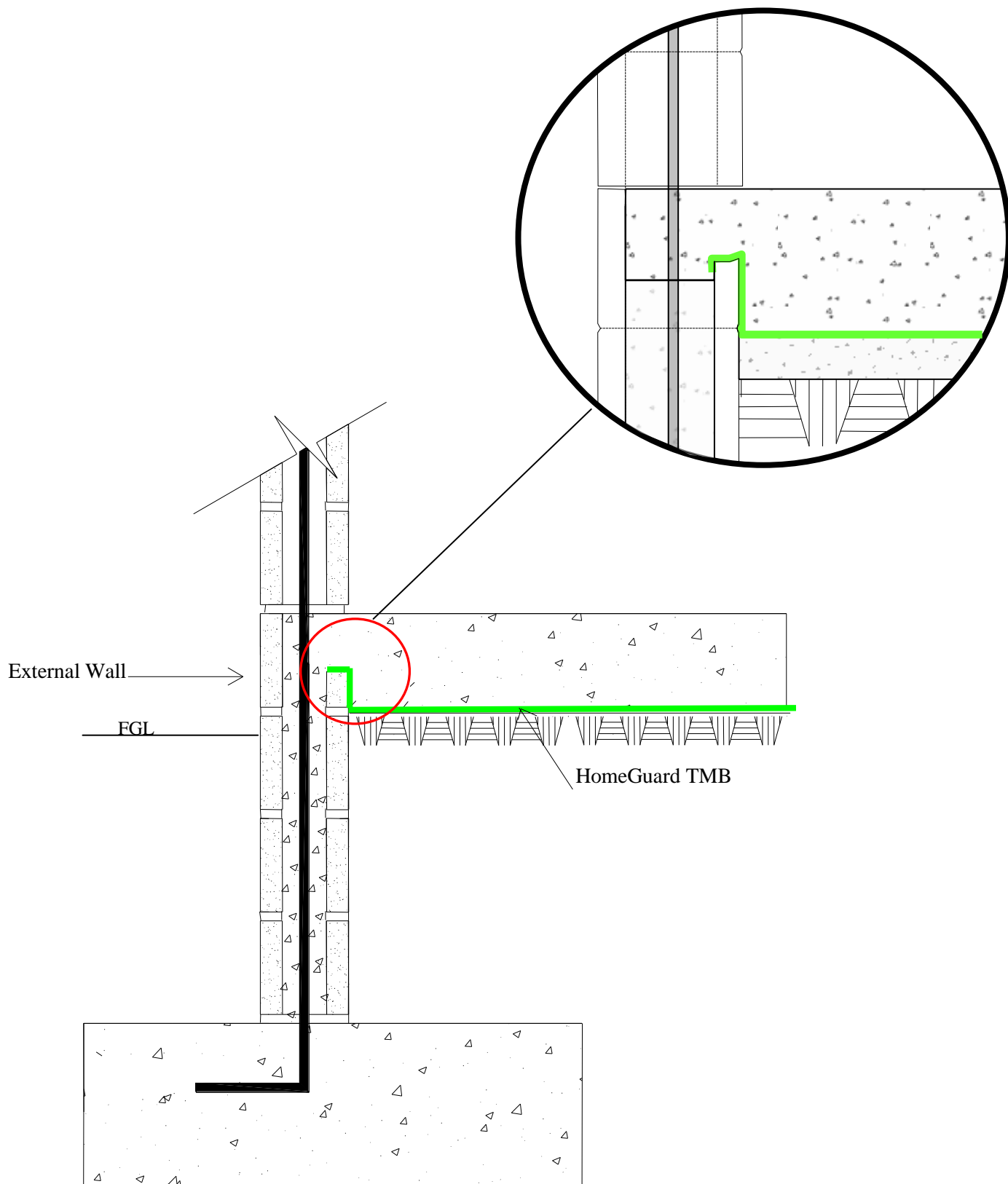
Full under-slab – infill non-monolithic (FU5)



Stiffened slab with edge beam – non-monolithic (FU6)

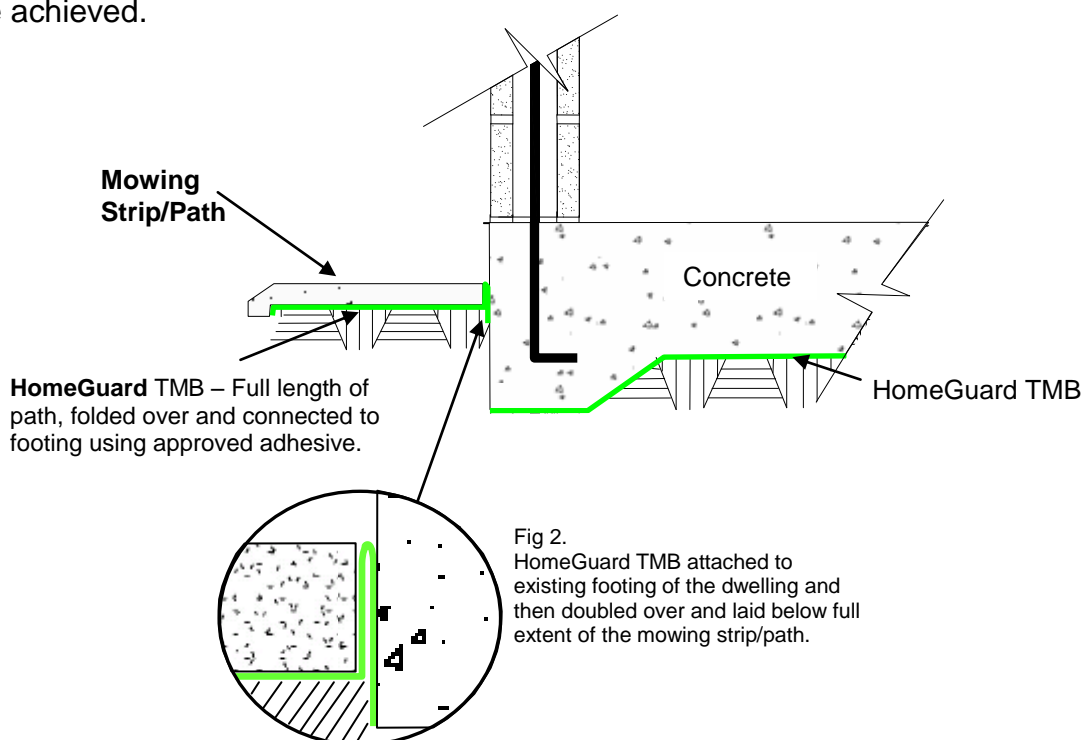


Full under-slab & perimeter cavity installation- Block Construction (FU7)



Full under-slab variation – Areas North of the Tropic of Capricorn – FU – NT1

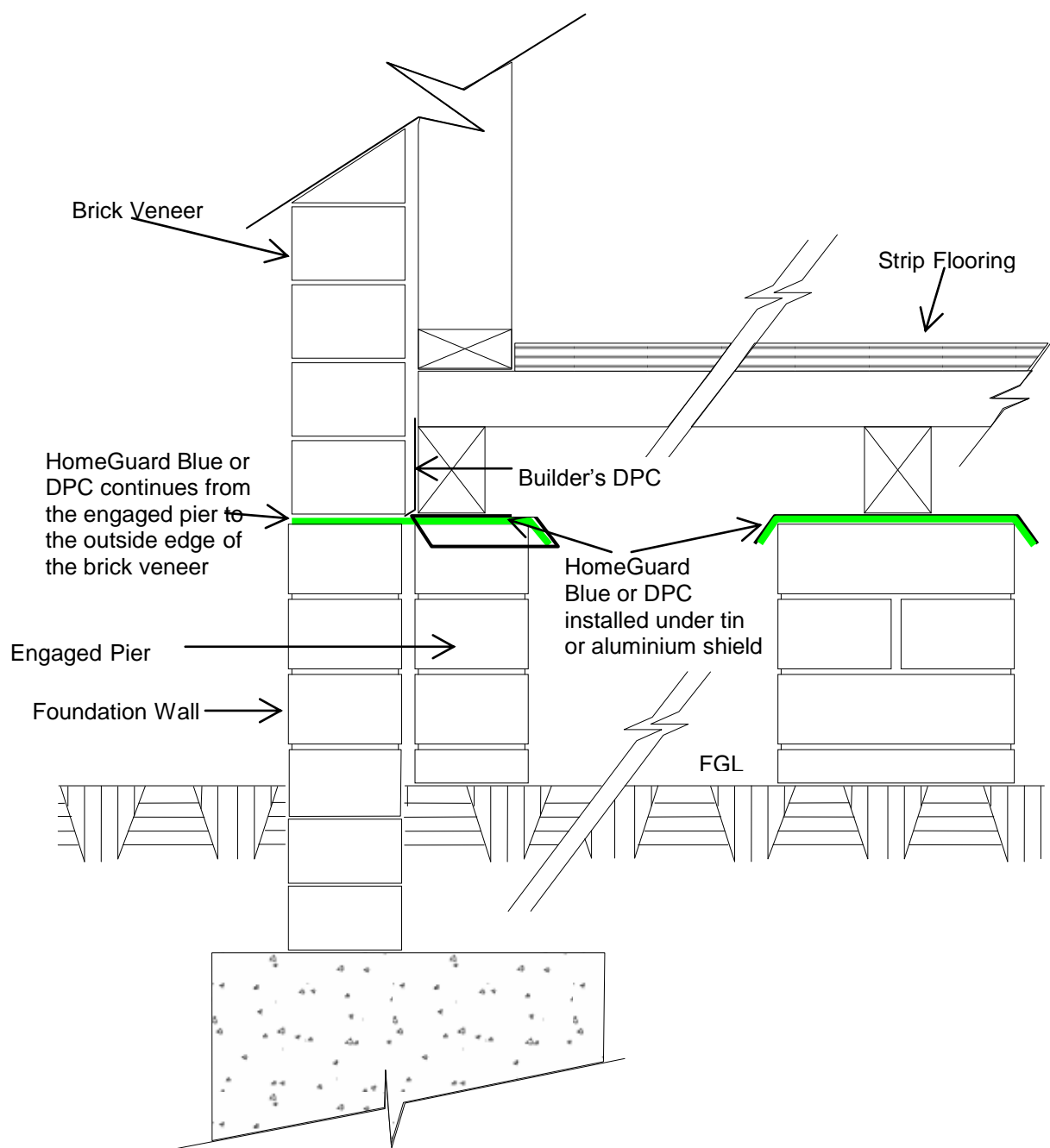
- The following installation only refers to building types that do not require damp proof course [North of the Tropic of Capricorn]
- Full under slab installation with HomeGuard TMB, penetration collars using the HomeGuard Collars and an additional minimum 300mm wide X 50mm thick concrete mower strip / path protected using HomeGuard TMB under the full extent of the strip/path will comply with the BCA (NT Appendix) Clause B1,3(j)
- The top of any exposed slab/footing and any face surface must be cleaned of all debris, prior to the installation of the HomeGuard TMB. The HomeGuard TMB is installed completely under the path or step width; at least 30mm up to within 10mm of the upper finished level of the path. The HomeGuard TMB is then doubled over and fed down the side of the existing slab face and attached to the existing slab face with concrete nails or approved FMC bonding agent. Once the mowing strip / path is poured the HomeGuard is enveloped between the wall and the path. (Refer to exploded diagram Fig 2)
- In the case of protecting larger concrete areas abutting the structure e.g. patios and driveways the HomeGuard TMB must be installed to at least 1m in width out from the structure, or in accordance with local authority requirements, and extend to within 10mm of the upper finished level of the concrete section abutting the structure and then folded down the abutting vertical surface. (Refer to exploded diagram Fig 2.) All joins in the HomeGuard TMB must be made using a 200mm overlap and secured with HomeGuard approved cloth tape or adhesive.
- After the concrete has been poured a minimum visual inspection zone of 75mm, to the bottom of the upper slab edge, must be apparent except in the case of a driveway where the installation of the HomeGuard TMB will extend continuously at least 200mm wider than the garage door opening on each side to a point where a 30mm inspection zone is to be achieved.



Suspended floors

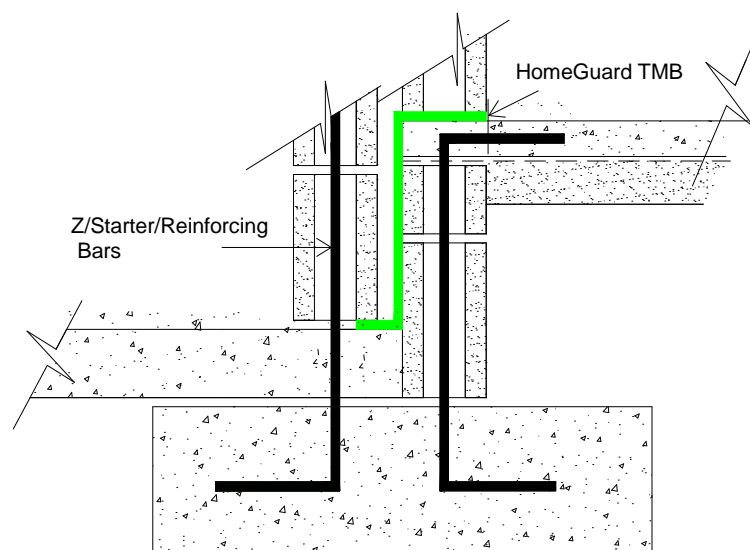
Suspended Floor – various (Mis2)

- For suspended floors and beams HomeGuard DPC or HomeGuard Blue should be cut to allow 40mm overhang that complies with AS 3660 series
- If stumps have a pin or thread in the centre, make a hole slightly smaller than the pin in the sheet and force it down over the pin
- Do not nail the sheet to the stump, only use an approved adhesive
- The HomeGuard sheet can be installed under a traditional aluminum or tin termite shield if necessary
- HomeGuard sheet must have an overhang of 40mm on all sides of piers



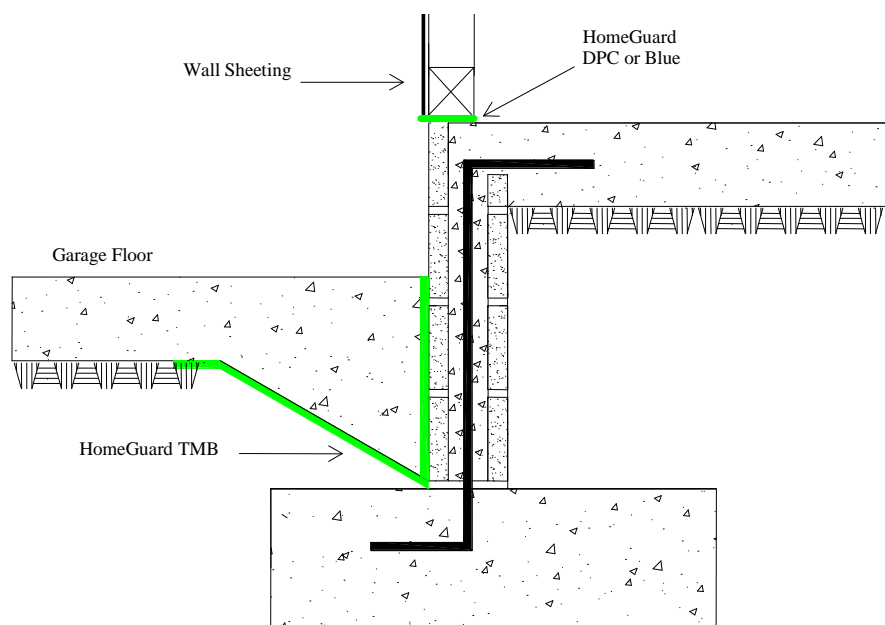
Step Down Slabs

Garage Step-Down - Block Construction (SD1)



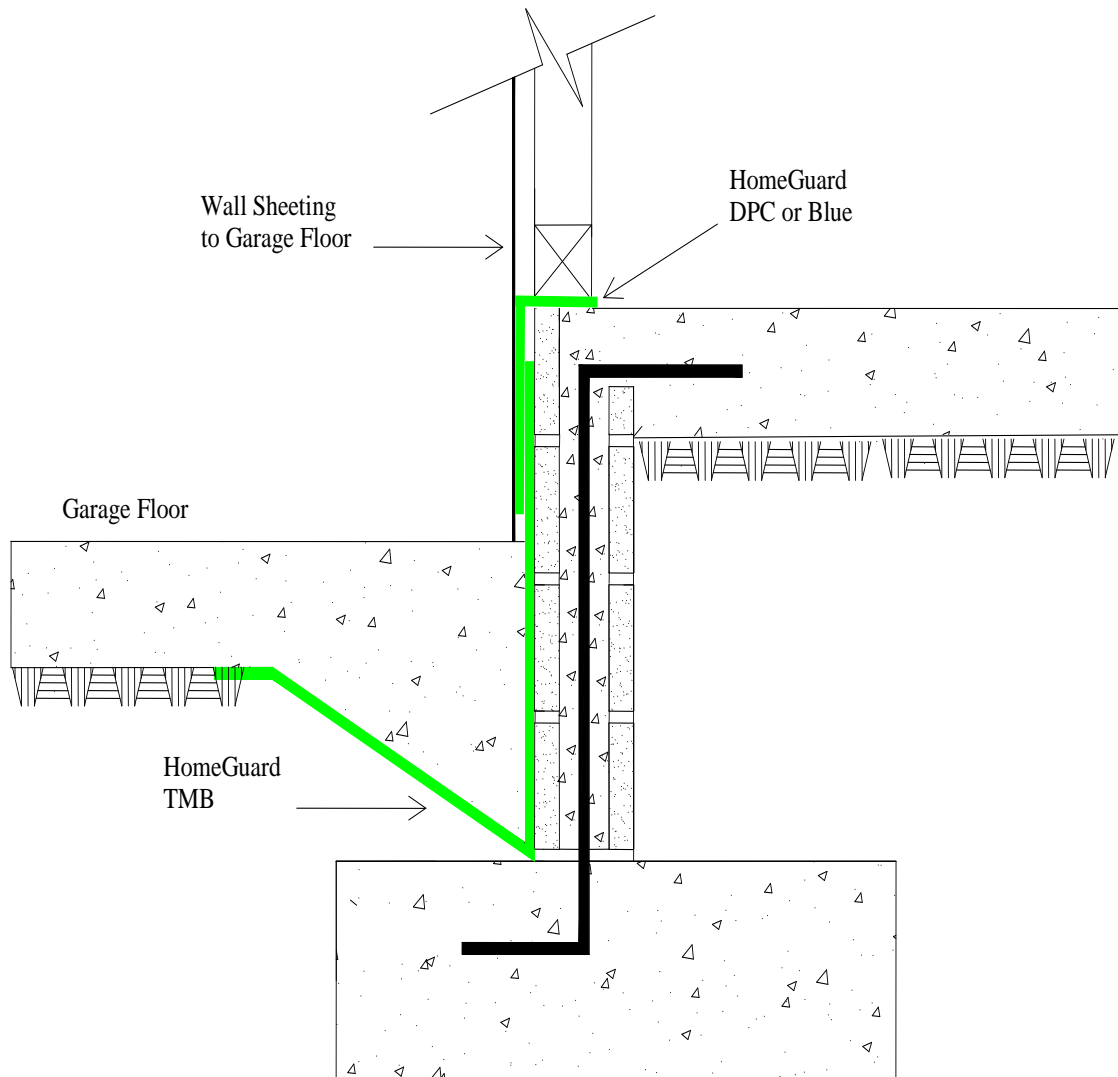
Garage step-down – Block Construction Variation One (SD2)

- If inspection zone is present (i.e. no wall sheet covering the face of the bricks) install HomeGuard TMB under the lower slab to a minimum of 300 mm back under the slab.
- Place 100 mm wide piece of HomeGuard DPC or HomeGuard Blue over the critical joint of the upper slab so that both the wall sheeting and the bottom plate of the timber wall frame are sitting on the HomeGuard product.



Garage step-down – Block Construction Variation Two (SD3)

- If wall sheet covers the face brick, ensure that the TMB from under the lower slab extends up the wall so to overlap with the DPC or Blue that is under the bottom plate on the upper slab.
- HomeGuard TMB and HomeGuard DPC/Blue joints must overlap by 200mm

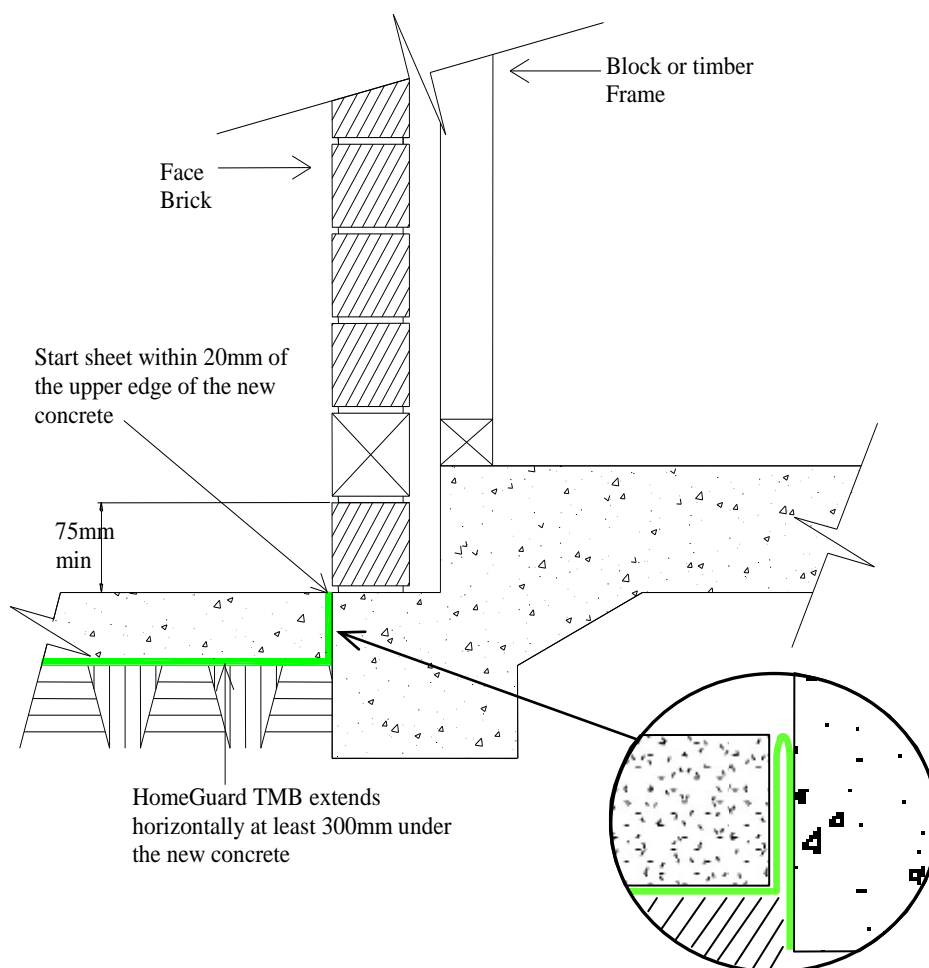


Paths and Additions

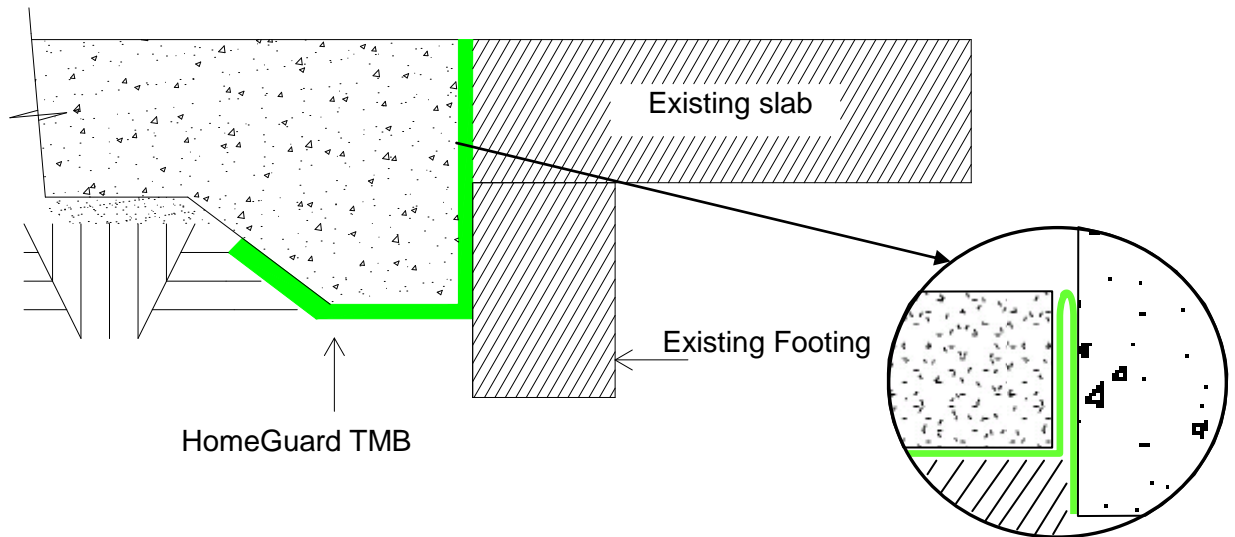
For existing masonry to new concrete joints – including additions, paths, etc

External Perimeter Detail – Paths (EP1)

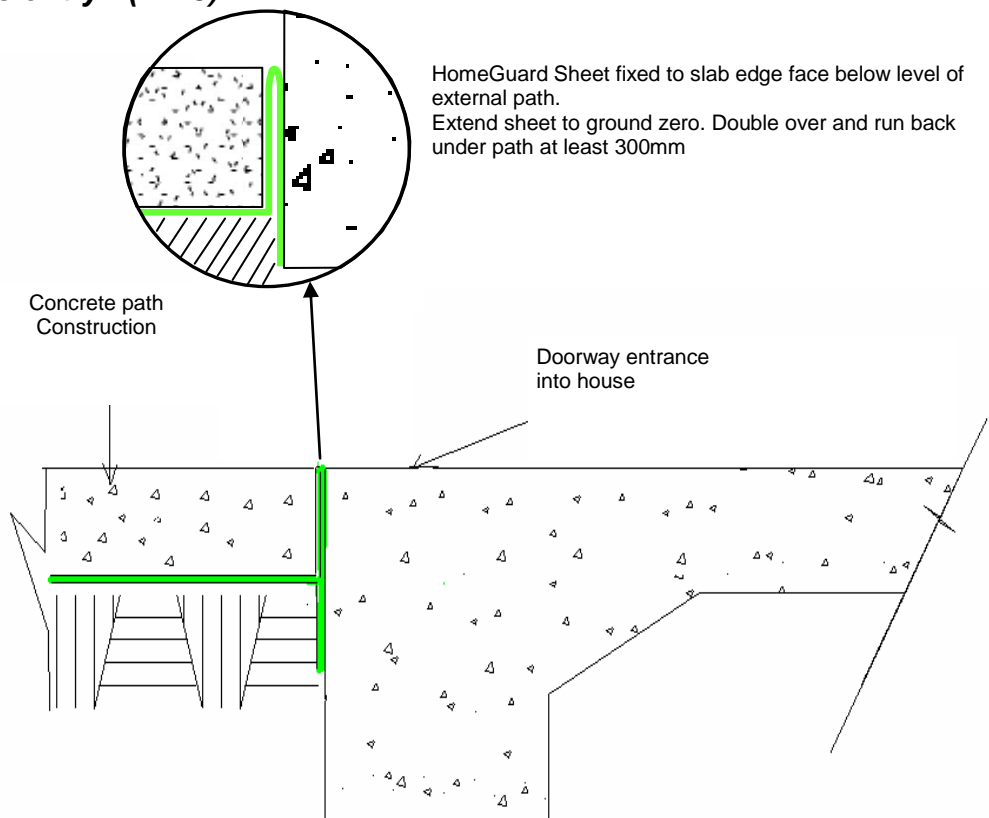
- Using appropriate filler, fill mortar joints and uneven surfaces for a vertical distance of 25mm and within 20mm of the upper edge of the new concrete.
- Fix one edge of the HomeGuard TMB sheet to the existing vertical edge surface using an appropriate adhesive or bonding agent.
- Start the HomeGuard Sheet within 20mm of the upper edge of the new concrete. Adhere all joints and ensure that the HomeGuard sheet remains continuous along the footing and for 300mm horizontally under the new concrete.



External perimeter detail – additional footing slab (EP2)

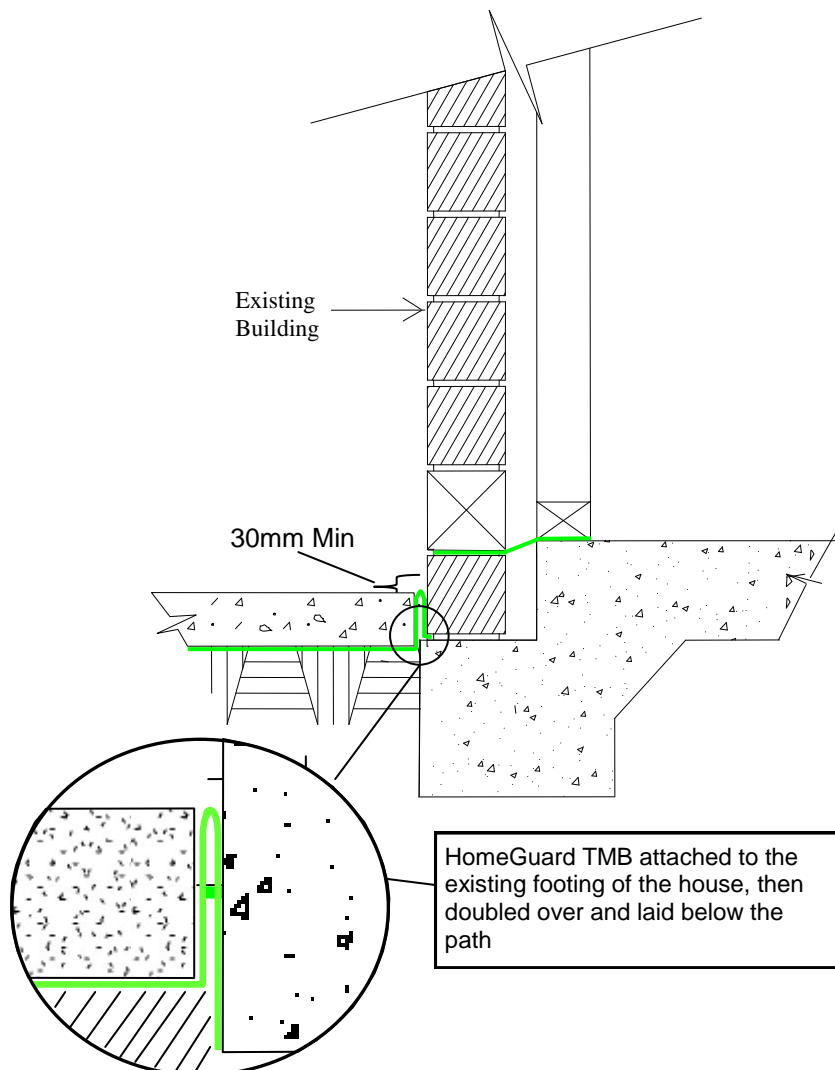


Stepless entry - (EP 3)



External perimeter paths and drives with less than 75mm inspection zone (EP4)

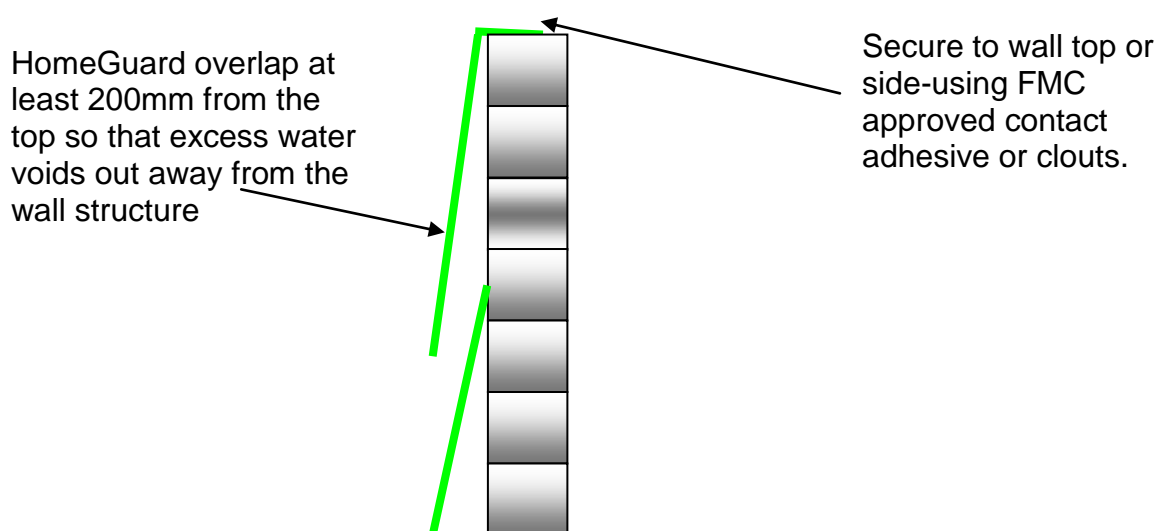
- Clean debris from the top of any exposed footings and face surfaces.
- Install HomeGuard TMB completely under the path or step width 50mm down past the upper leading edge of the footing and extend to within 10mm of the upper finished level of the path.
- The HomeGuard TMB is then doubled over and fed down the side of the existing wall and attached to the existing footing with concrete nails or approved FMC bonding agent.
- Once the path is poured the TMB is enveloped between the wall and the path.
- When protecting larger concrete areas abutting the structure eg. patios and driveways, install TMB to at least 1m in width, or in accordance with local authority requirements, and extend to within 10mm of the upper finished level of the concrete section abutting the structure and then folded down along the existing footing.
- After the concrete has been poured there must be a minimum visual inspection zone of 30mm, to the bottom of the weephole level.
- For driveways, install HomeGuard TMB 200mm wider than the garage door opening on each side to create a 30mm inspection zone



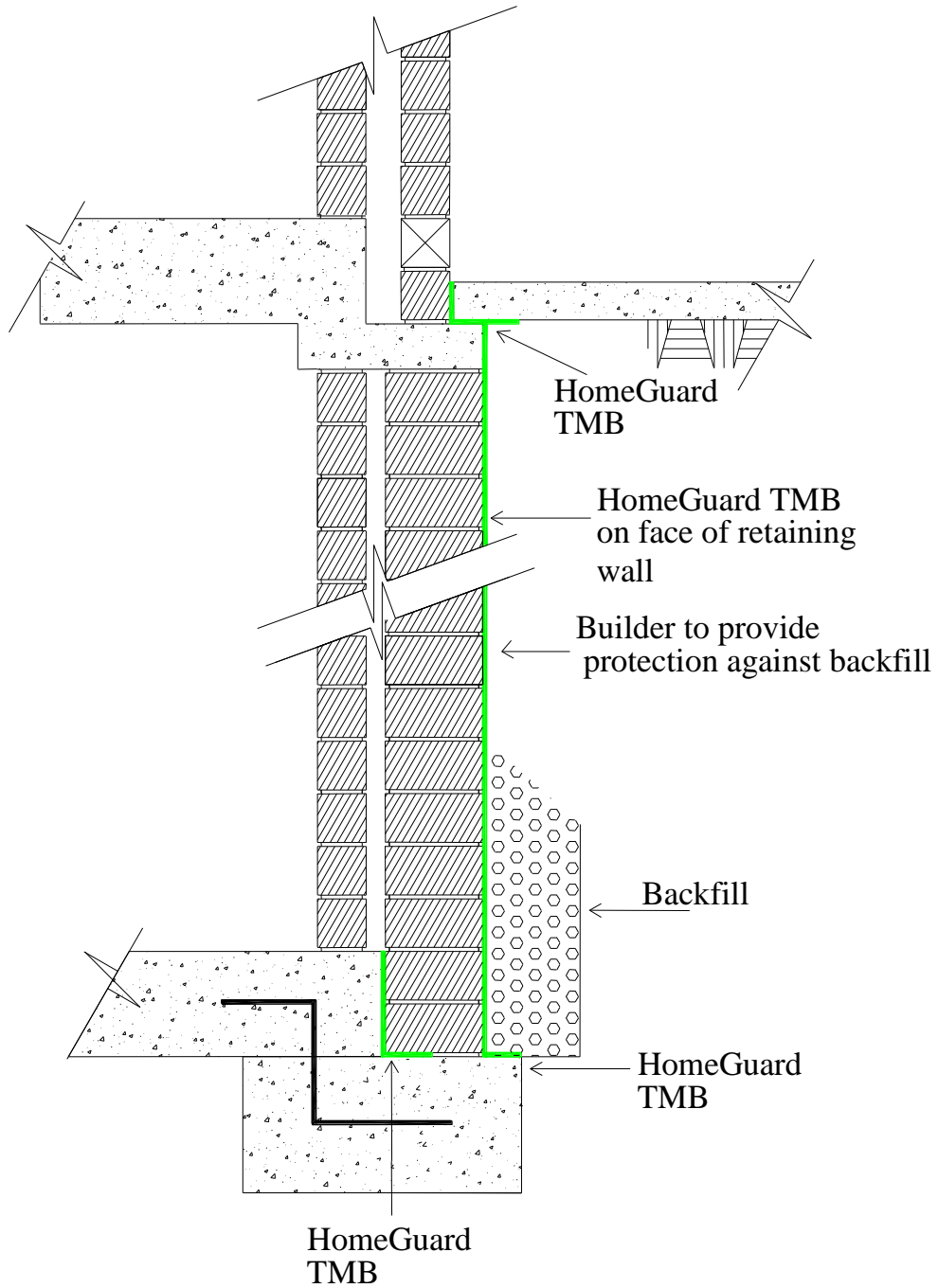
Structural Retaining Walls

Installation notes for retaining walls

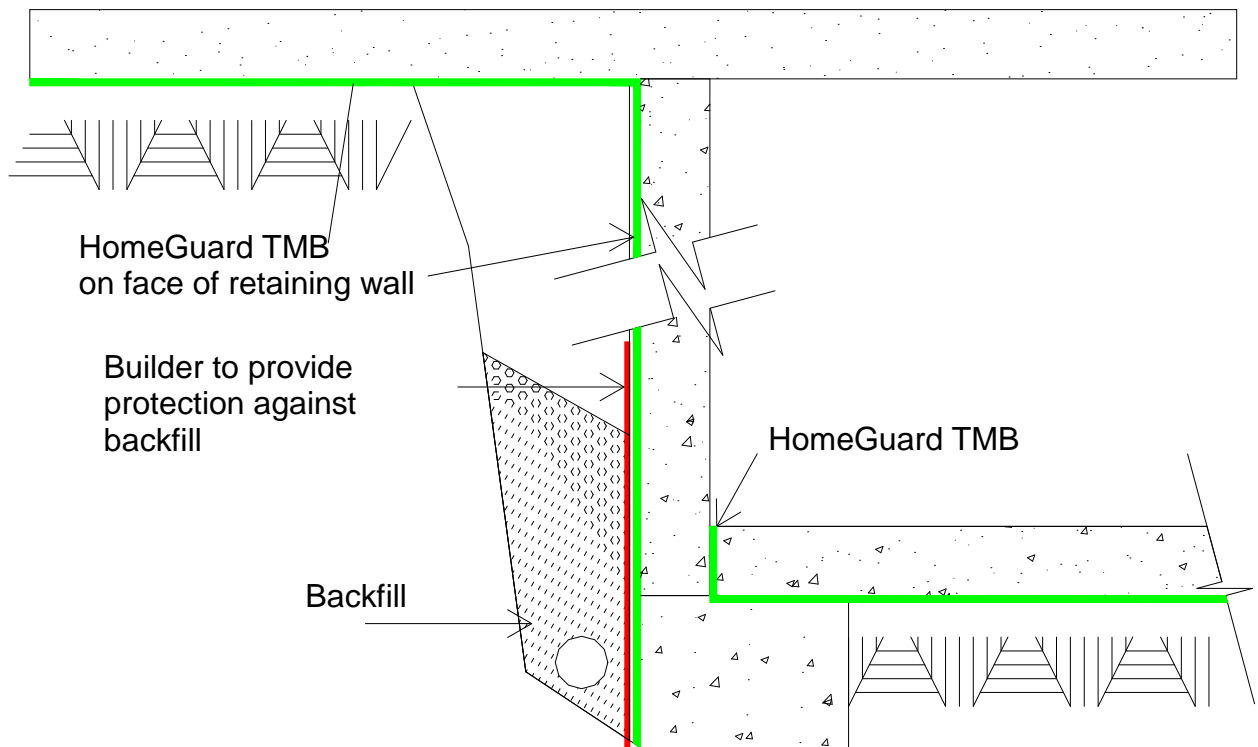
- Any of the HomeGuard sheet range can be used as a termite management measure when installed against a structural retaining wall.
- HomeGuard can be used as an approved moisture barrier or in conjunction with a builders water proofing material/substance
- HomeGuard product should always be laid after the builders waterproof material has been attached to the back of the retaining wall.
- HomeGuard should be installed down to the base of the wall plus 200mm across the footing, in order to cover the base course mortar joint, and secured to the external concrete/brickwork.
- All joints and edges must be sealed using appropriate adhesive or bonding agents.
- HomeGuard TMB is especially suited to large workings and is a viable cost effective option.
- Work from the bottom of the wall up so that any water that builds up behind the wall voids to the outside of the structure.
- If the top sheet cannot be nailed to the structure, use an approved bonding agent between the sheet and the concrete.
- Plastic corfluit material is used by the builder as an impact insulation material before the backfill is poured into the void behind the wall. This material or a similar barrier material should be used on all structural retaining walls to reduce the chance of damage to the HomeGuard termite barrier and/ or moisture barrier materials.
- If an overlap is required, the top sheet should overlap the bottom sheet (see below).



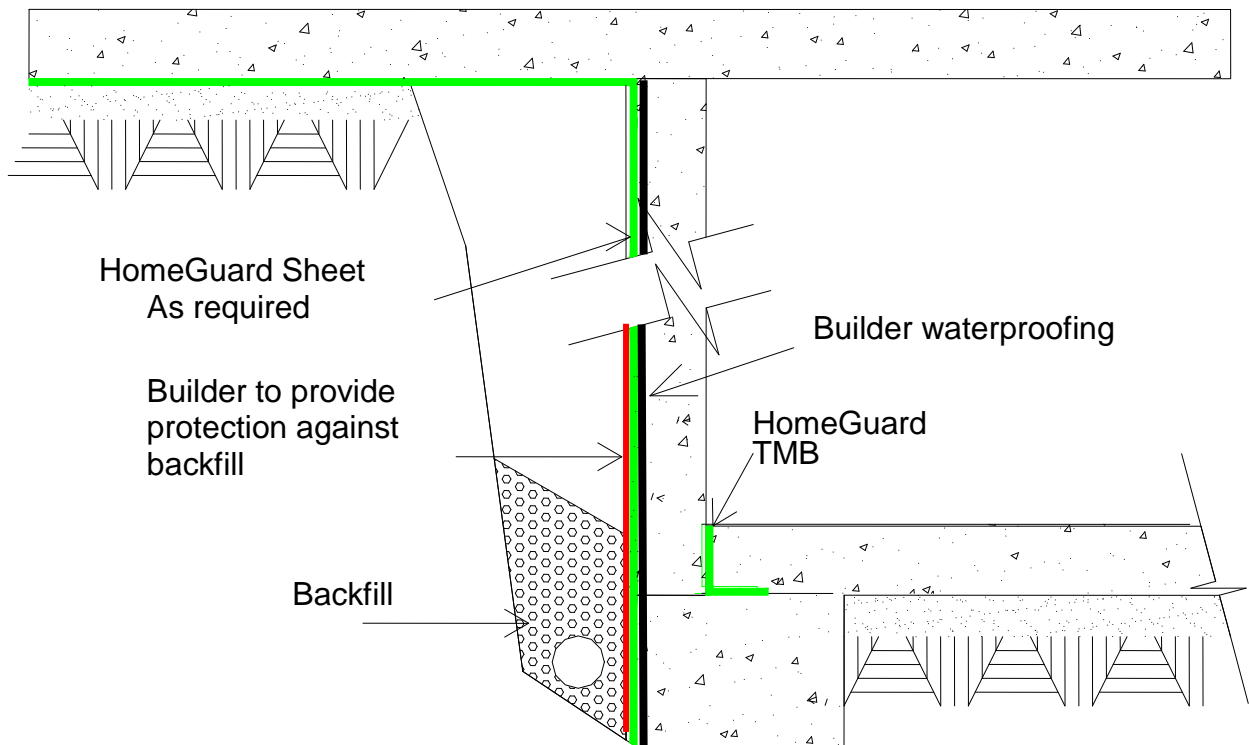
Retaining wall (RW1)



Retaining wall (RW2)



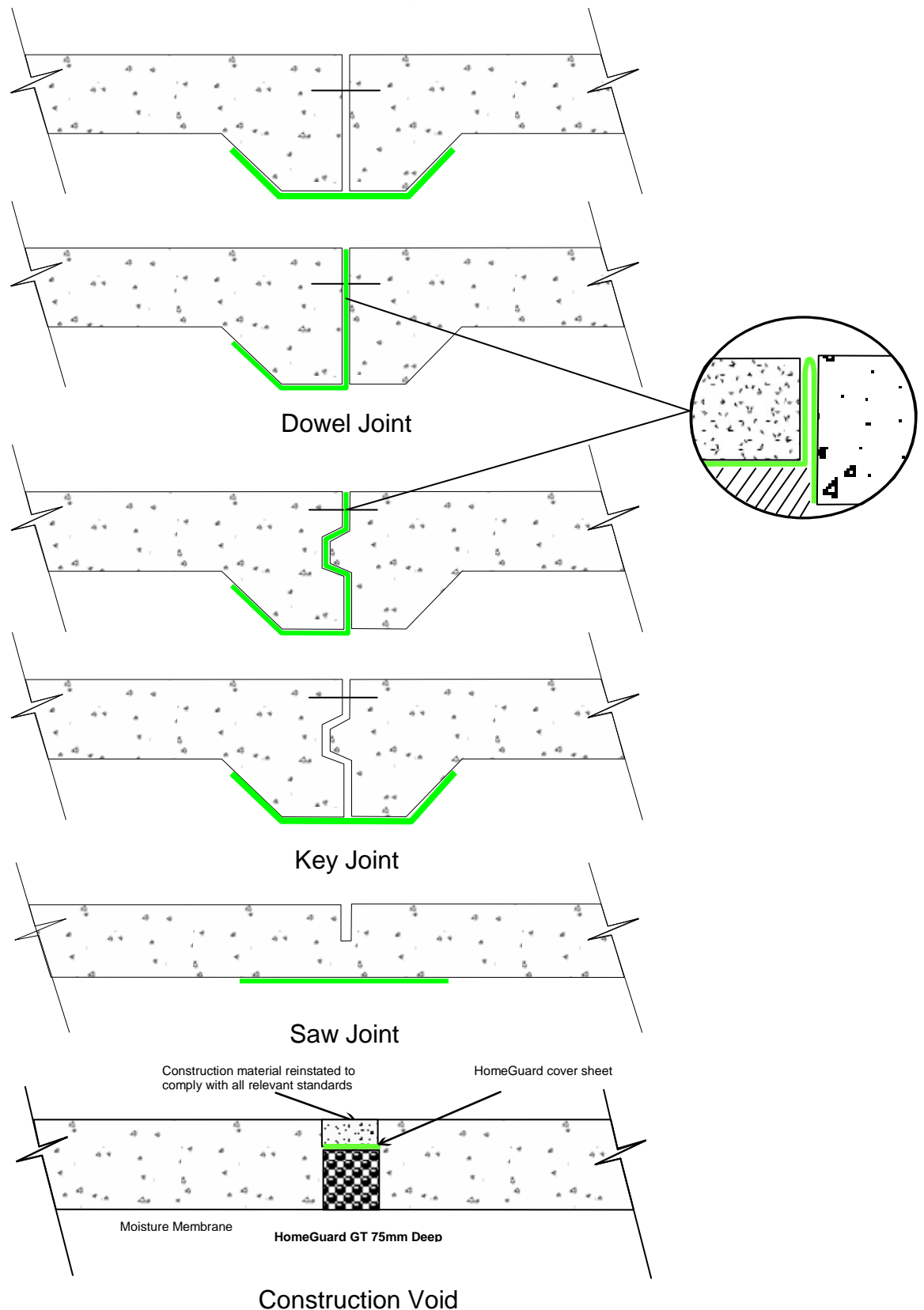
Retaining wall (RW3)



Critical Joints

Construction joints (CJ1)

- Install a minimum 300mm wide strip of HomeGuard TMB or HomeGuard Blue immediately under the construction joint by adhering it to the moisture membrane.
- Ensure that all vertical joints are protected using an folded envelope of HomeGuard



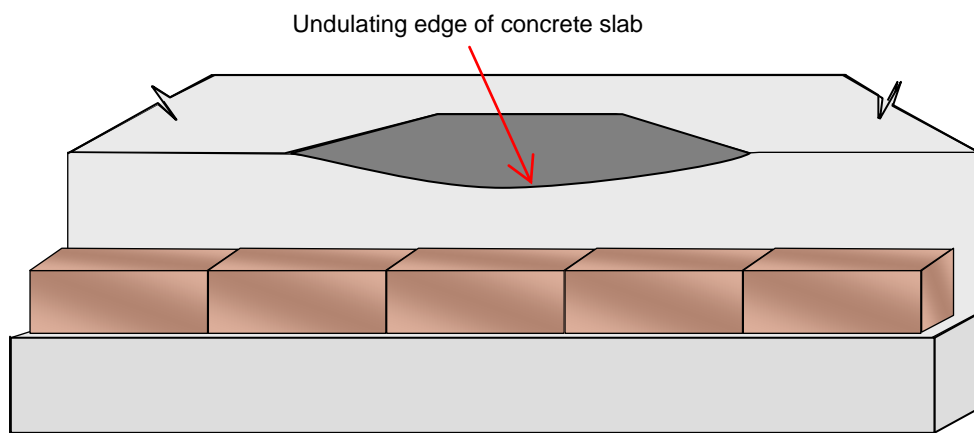
Perimeter Cavity Installations

Perimeter Cavity Detail Installations using HomeGuard DPC as an approved (AS 2870) Damp Proof Course

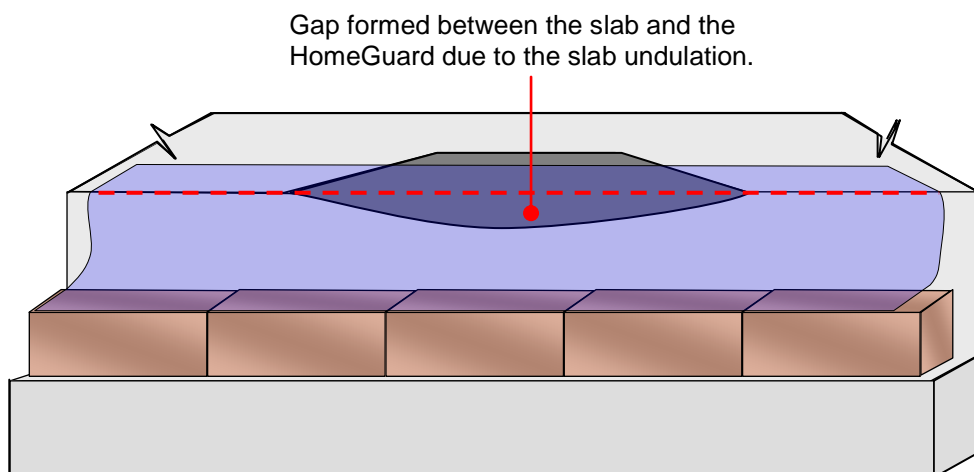
Perimeter cavity - HomeGuard DPC and HomeGuard Blue

In cases where the concrete slab is not constructed to the Australian Standards and there are undulations in the slab edge; follow the steps set out below to ensure that a complete and continuous barrier is maintained:

Step 1: Inspect slab, recognise and mark areas of undulation of slab edge



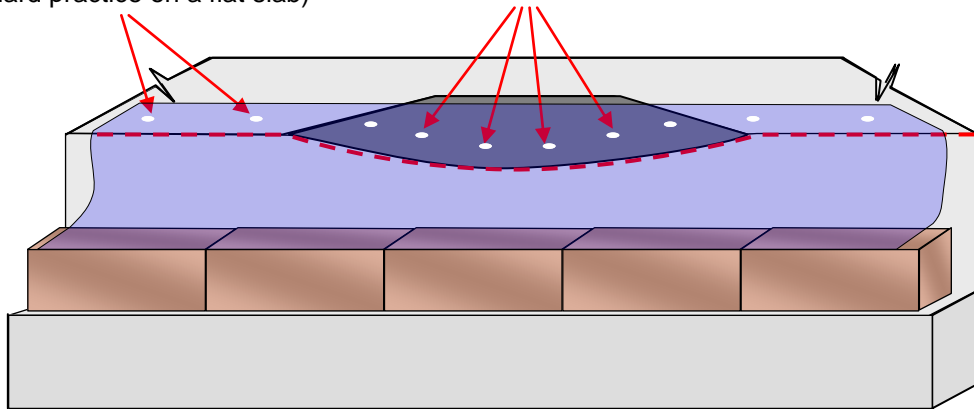
Step 2: Apply the HomeGuard to the slab and recognise where the gaps are located



Step 3: Affix the HomeGuard to the slab edge to ensure there are no gaps

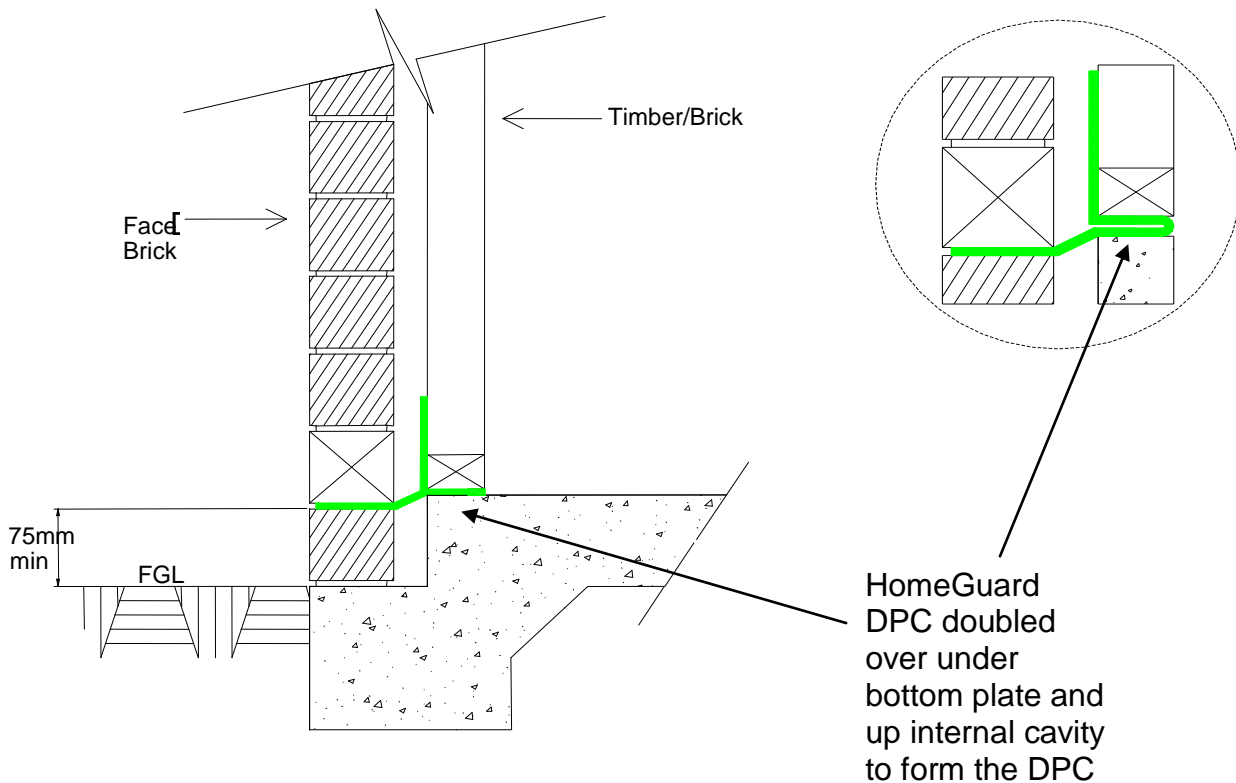
Depending on the severity of the undulation, use closer clout spacing (eg. 10mm) to ensure there are **no gaps** between the concrete surface and the HomeGuard.

Concrete clouts at 40mm centres max
(Standard practice on a flat slab)



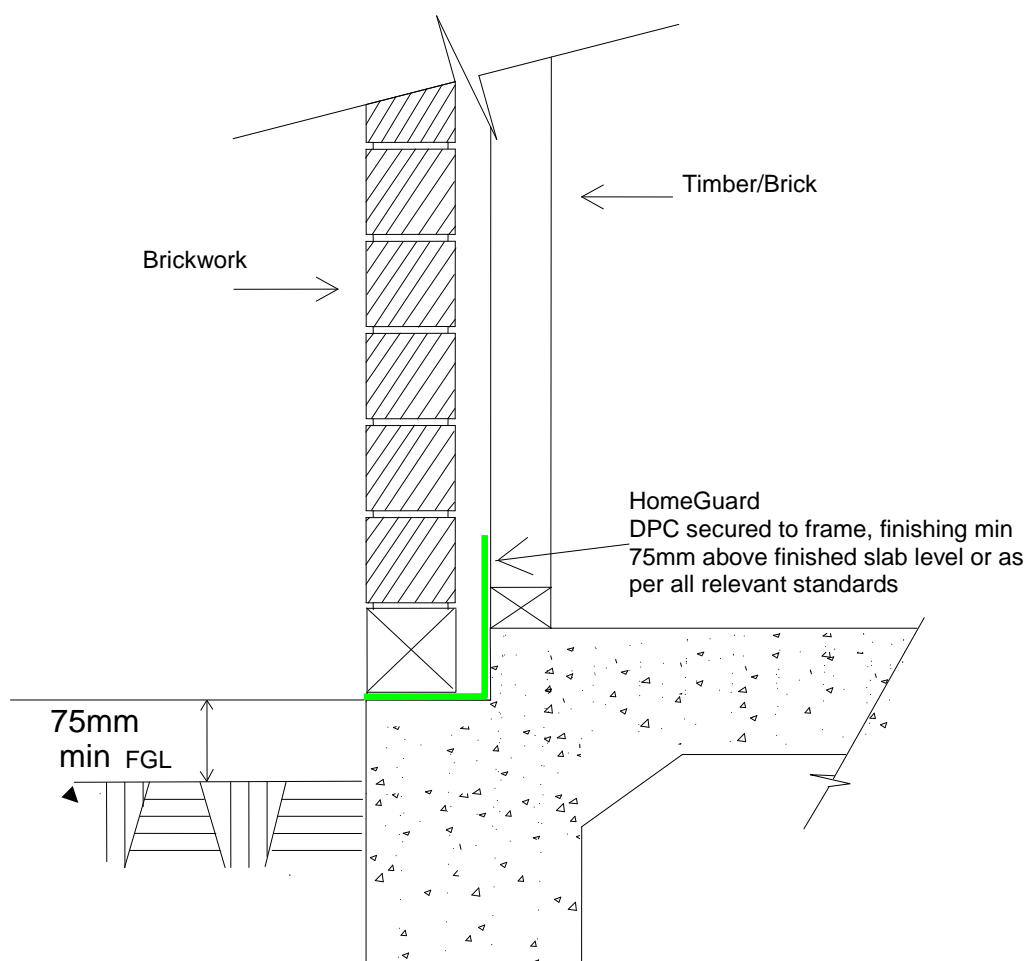
Perimeter cavity detail – single rebate (DPC1)

- Double the HomeGuard DPC over and affix to the concrete slab using concrete clouts (40mm spacing maximum) or an approved adhesive
- Ensure that the fold passes fully under the bottom plate.
- One leading edge of the sheet should extend across the perimeter cavity and tie into the external brickwork. The other leading edge of the sheet should be extended vertically against the timber stud and pinned to the timber wall studs, as the commercial DPC would be installed.



Perimeter cavity detail – South Australian Rebate (DPCSA1)

- Install HomeGuard DPC to the correct height specifications from the finished slab height (eg: 75mm) in accordance with the BCA and other relevant legislations.
- Nail HomeGuard to the rebate at 1m centres, then cover nail heads with approved sealant
- No additional commercial DPC will be required if HomeGuard DPC.
- Use the instructions for South Australian Corner construction



Perimeter Cavity Detail Installations Using HomeGuard DPC or HomeGuard Blue with Separate Builders DPC

Perimeter cavity -HomeGuard DPC and HomeGuard Blue

Prior to installing HomeGuard DPC or HomeGuard Blue in a perimeter cavity situation;

- Ensure that the leading edge of the slab is clean and clear of all loose/rough material
- Ensure that any rough slab edges are made good
- If the concrete edge is damaged then a patch is to be made from HomeGuard that exceeds the area of damage by at least 100mm.
- Attach the patch to the continuous HomeGuard barrier using an approved adhesive.



Above: Damaged concrete edge requiring patch taped to the underside of the HomeGuard

Positioning of the Builders Damp Proof Course

When installing either HomeGuard DPC/Blue as a perimeter cavity barrier using the following installation diagrams, it is important to note the positioning of the standard builders damp proof course flashing material:

Blue – Builders DPC must extend to the external edge of the brick line

DPC – Builders DPC does not have to extend to the external edge of the brick line – it can simply be lapped on top of the HomeGuard DPC in the cavity

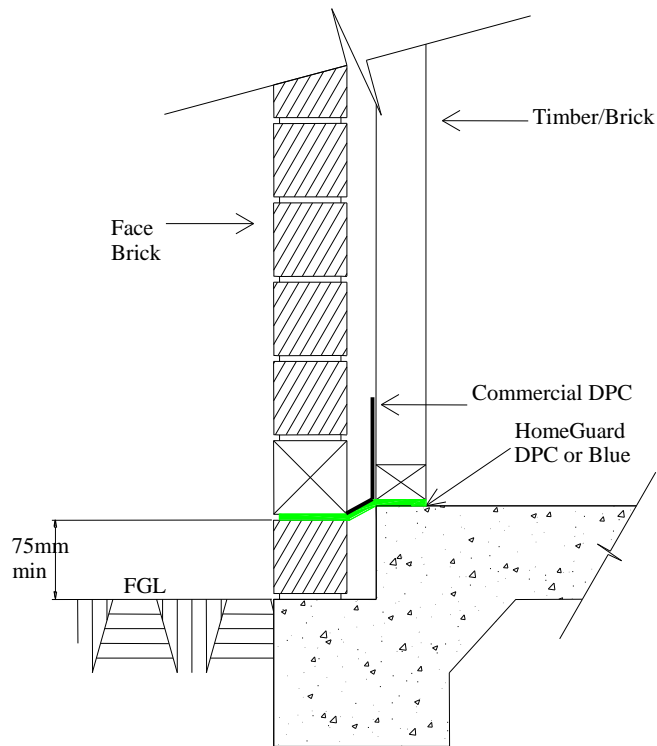
NB: The following installation codes refer to either installing:

HomeGuard DPC e.g: PC1,PC2 etc.

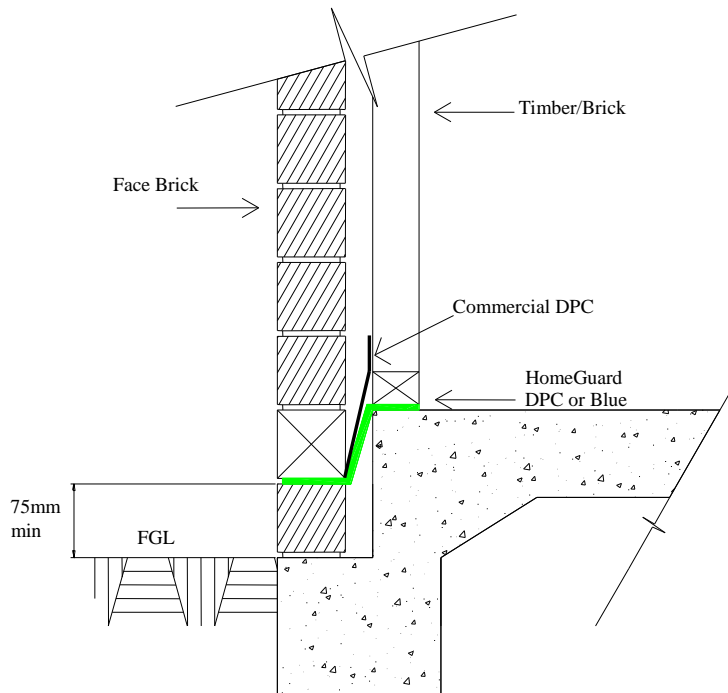
or HomeGuard Blue e.g: PCB1, PCB2 etc.

HomeGuard Blue has been fully assessed by the Australian Pesticides and Veterinarian Medicines Authority (APVMA) for efficacy as a termite barrier. It should be noted however that performance of HomeGuard Blue as a termite barrier relies on it being installed properly and any rips, tears or holes must be repaired as per the instructions on page 9 of this manual. As HomeGuard Blue is not as thick as HomeGuard DPC, it may be more susceptible to damage caused by rough building practices. Installation of the builders DPC in accordance with the BCA above the HomeGuard Blue sheet should be conducted as soon as the building process allows to provide extra protection to the termite barrier.

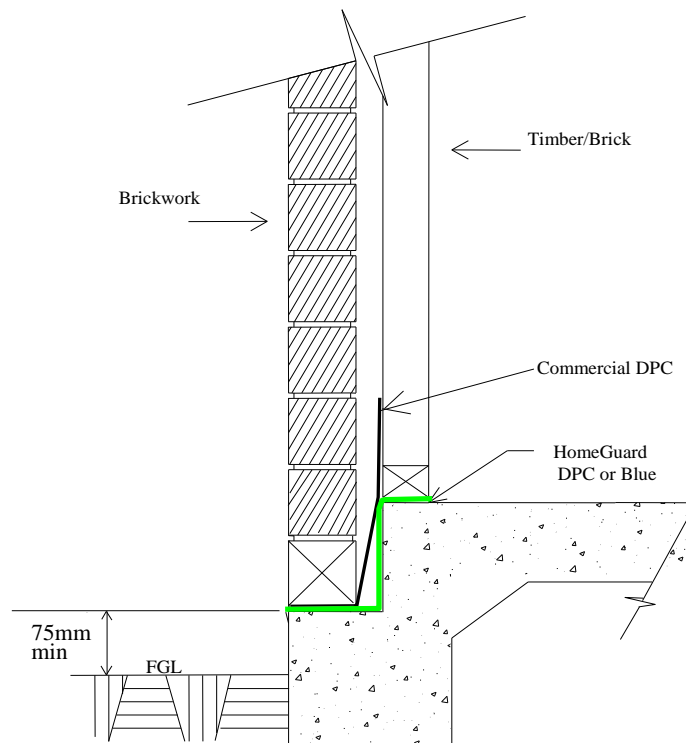
Perimeter cavity detail – single rebate (PC1) / (PCB1)



Perimeter cavity detail – multi rebate (PC2) / (PCB2)

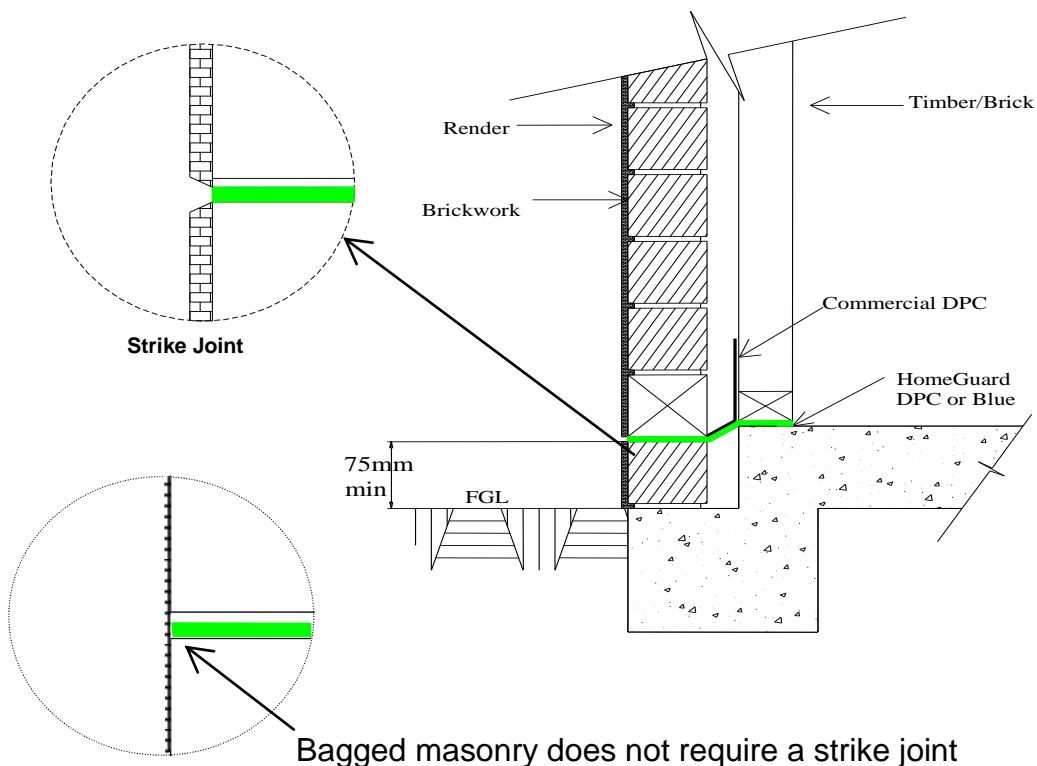


Perimeter cavity detail – multi rebate (PC2a) / (PCB2a)



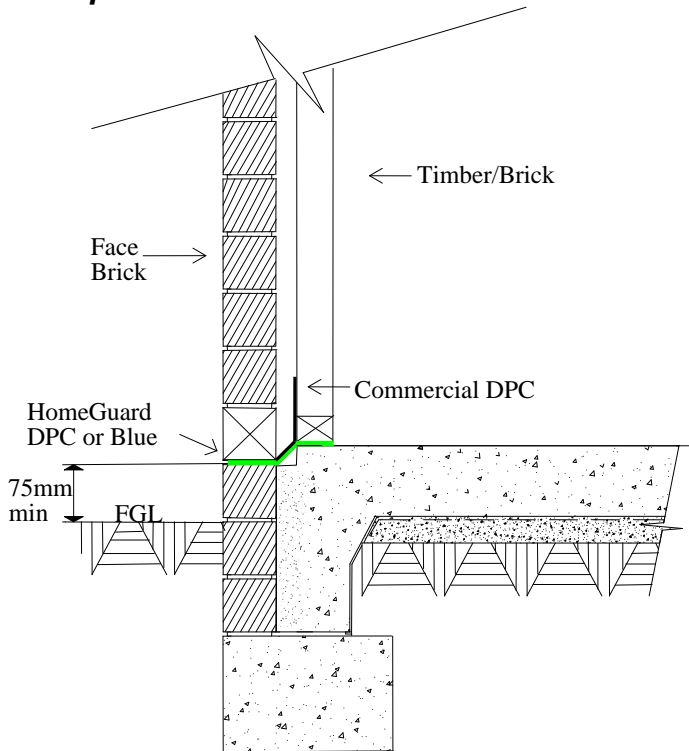
Perimeter cavity detail - Render (PC3) / (PCB3)

- NB: Only Rendered Bricks require a strike joint. Bagged Bricks do not require a Strike Joint

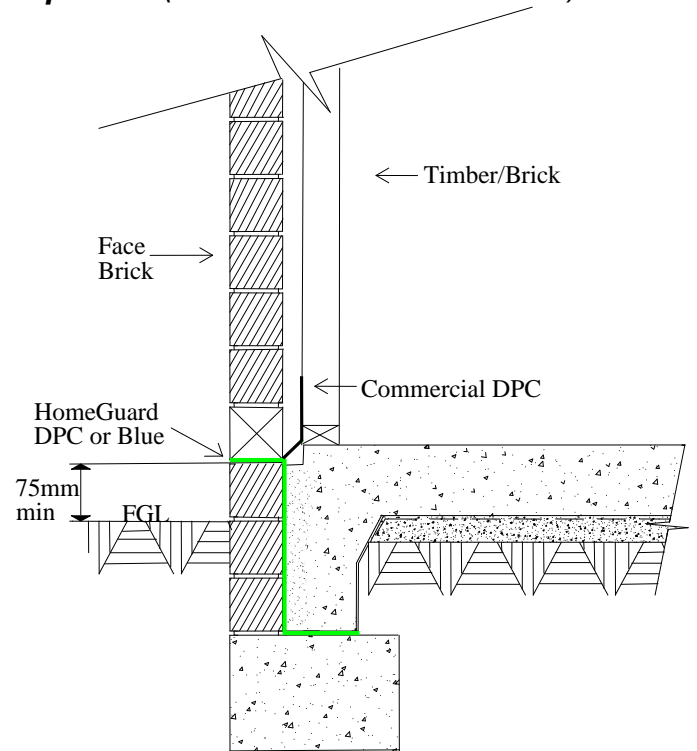


Perimeter cavity detail - non-monolithic infill (PC4) / (PCB4)

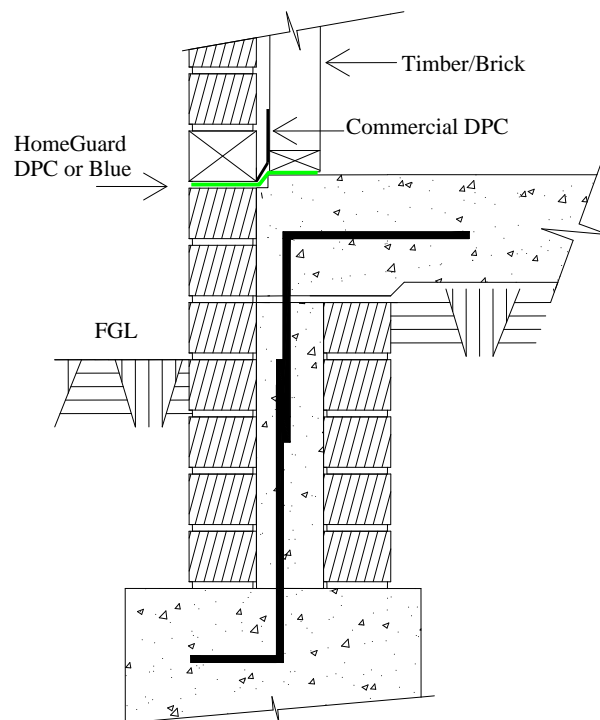
Option A



Option B (refer to corner section for corner detail)

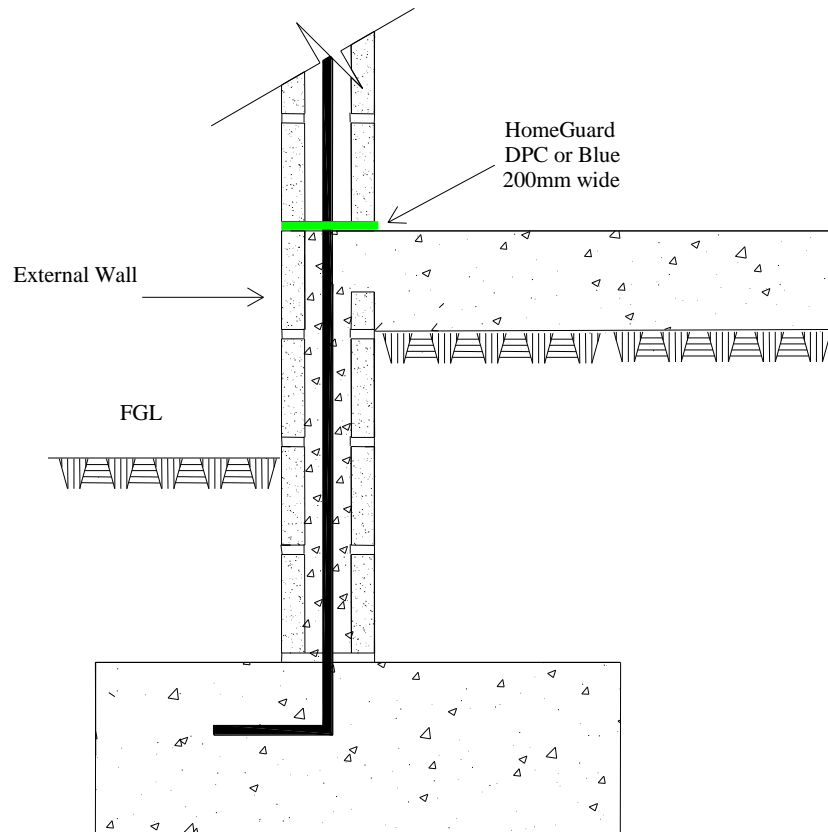


Stiffened raft slab – with edge beam (PC6) / (PCB6)



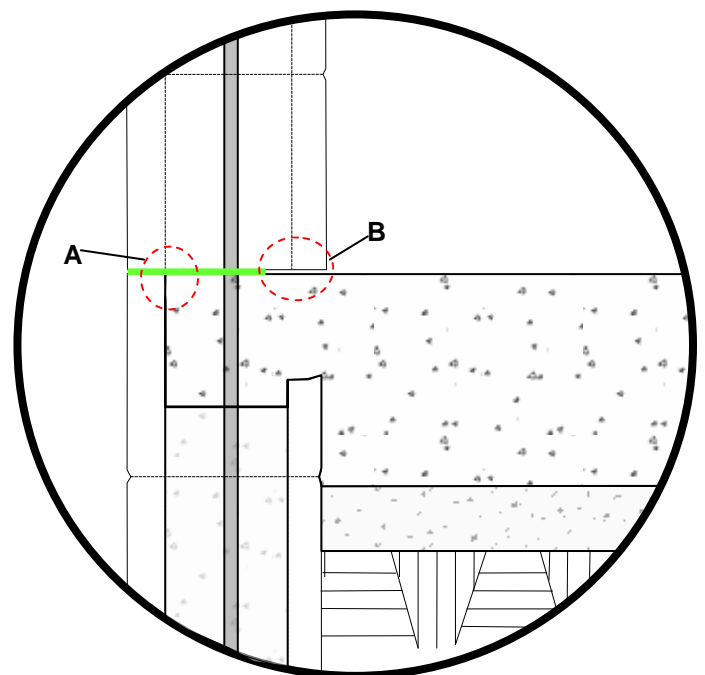
Perimeter cavity detail – Concrete Block (PC7) / (PCB7)

- Place a 200 mm wide strip across the width of the perimeter block
- If a cold joint is required, make the strip narrower (15 – 20mm) but ensure that the HomeGuard sheet extends at least over the joint where the knock-out block meets the slab (refer to detail A)
- Ensure the HomeGuard sheet is installed flush with the slab edge – no cold joints on the external face wall



Detail A (Cold Joint)

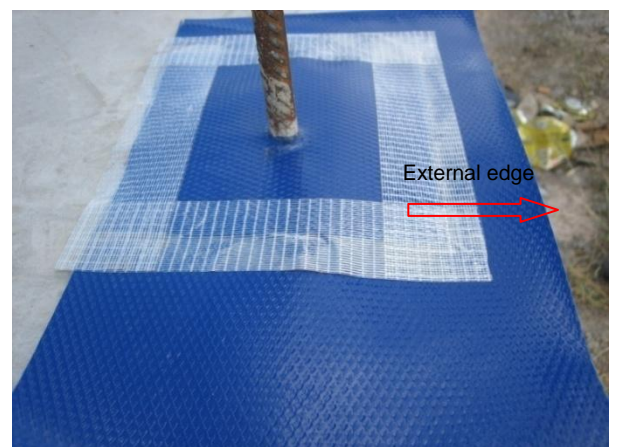
- A – DPC or Blue covering the slab joints
- B – Cold joint



Cyclone Tie-down Rods

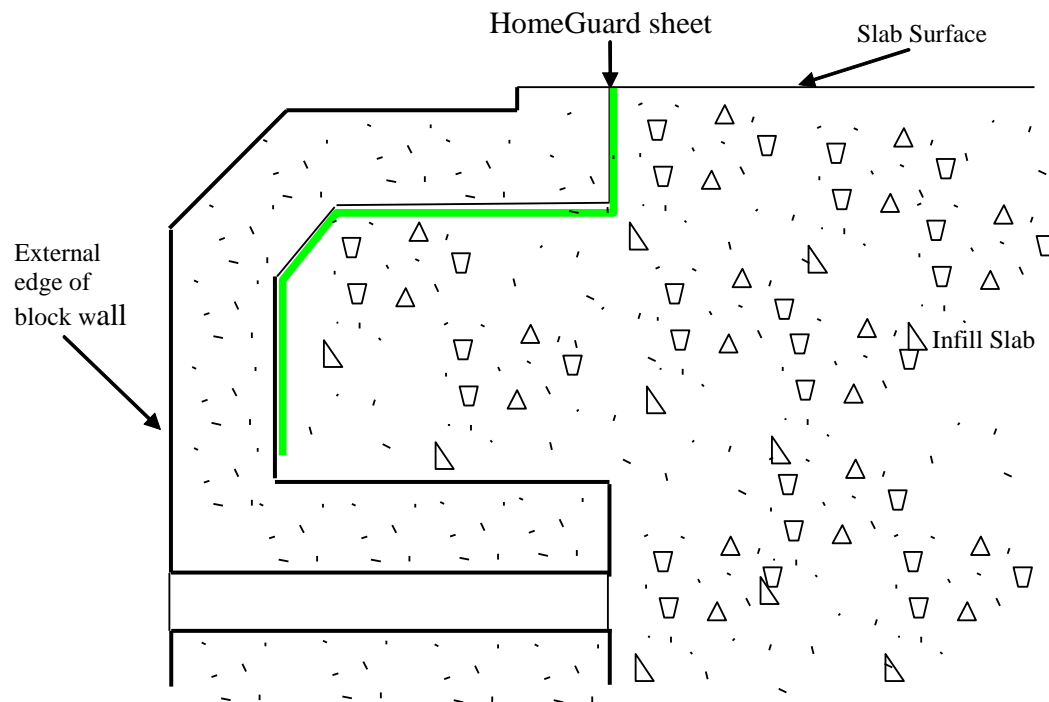
Use the following steps to install patches over starter bars in perimeter situations.

1. Remove all loose and rough pieces of concrete along the perimeter, especially around the Tie-down rods.
2. Unroll the HomeGuard DPC or Blue sheet on top of the slab, along the wall that it is to be installed.
3. Mark the location of each tie-down rod on the sheet.
4. Measure the distance that the rod is in from the outer edge of the block wall and transpose this distance onto the HomeGuard sheet.
5. Using an 8 mm wad cutter, cut a hole in the HomeGuard sheet.
6. Using a pair of scissors slit the HomeGuard sheet from the **INNER EDGE** to the hole.
7. When all holes have been cut and slit, slide the HomeGuard sheet into place from the external side edge of the block wall.
8. To make a patch, cut a piece of HomeGuard sheet 200 x 150 mm mark and cut a hole in it with the 8 mm wad cutter.
9. Carefully feed the patch over the tie-down rod and slide it down over the wrap.
10. Tape down all edges of the patch with cloth tape.



Perimeter cavity – Door Sill Blocks (Mis3) - Block Construction

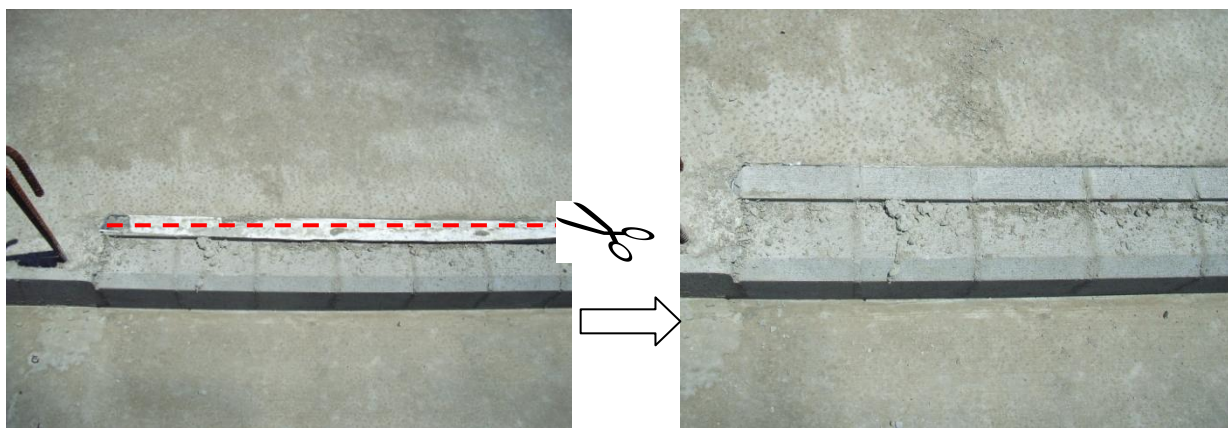
- Using HomeGuard TMB, DPC or Blue install a sheet that runs down the rear vertical surface of the block up under and around the cavity.
- Glue or tape the HomeGuard sheet to the internal surface of the block using an approved bonding agent that provides good bonding properties between the concrete and the sheet.



Above: Schematic diagram showing the positioning of the HomeGuard sheet after the concrete slab has been poured

Installation of Perimeter Cavity across Door Sill Blocks - Block Construction

1. Trim any excess HomeGuard sheet from the horizontal top surface of the block and remove all loose concrete and sand from the slab and block surface.



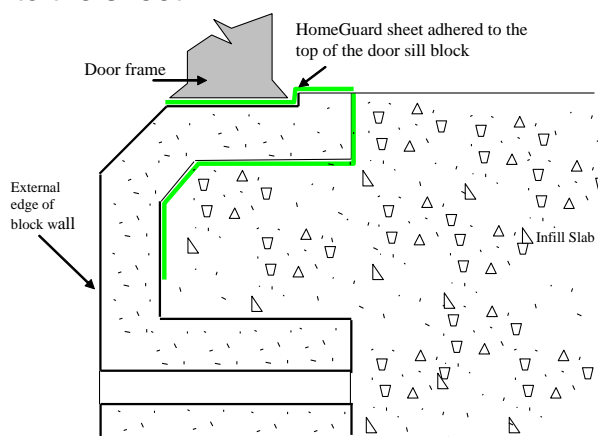
2. Install the perimeter HomeGuard sheet so that it finishes at the edge of the doorway block.

3. A second piece of HomeGuard sheet is then fitted to the profile of the doorway blocks, starting beneath the first sheet. Push the sheet back into the corners, a hammer head is useful for this.



4. It is important to ensure that an excellent bond is obtained between the sheet and the sill blocks. An approved adhesive must be used for this purpose. To reduce the possibility of tiles drumming, apply an approved adhesive to the top side of the sheet and sprinkle sand over the sheet.

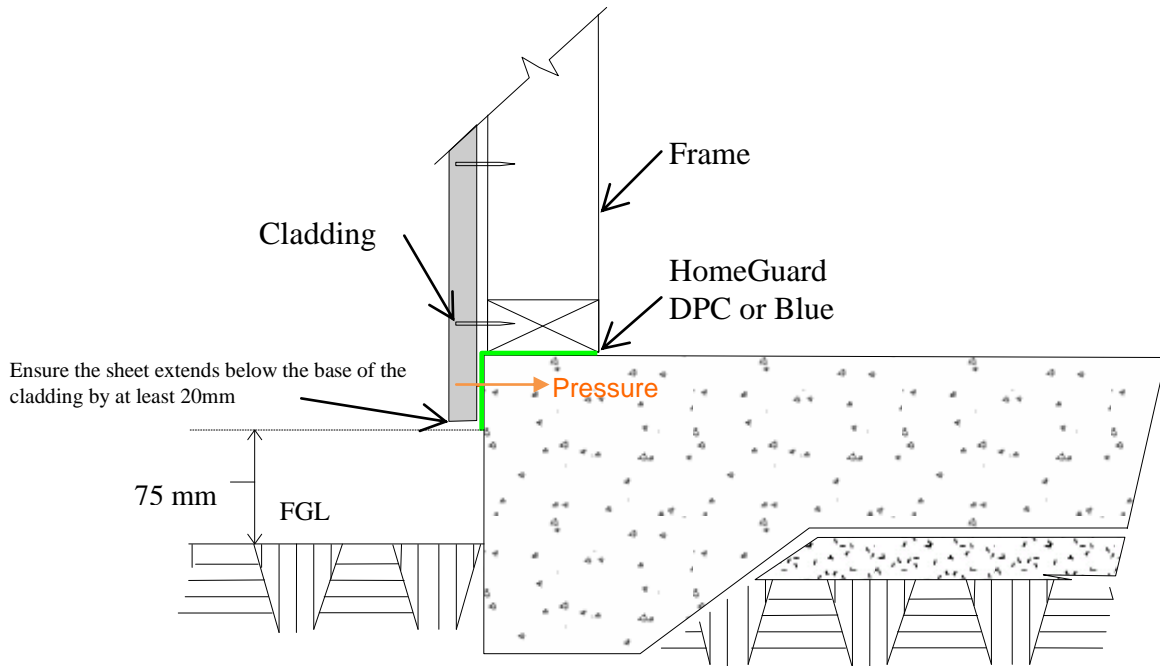
N.B: This should only be undertaken prior to the door frames being installed to reduce the possibility of damage to the sheet.



Above: Schematic diagram showing the positioning of the HomeGuard sheet over the top of the sill and under the door frame

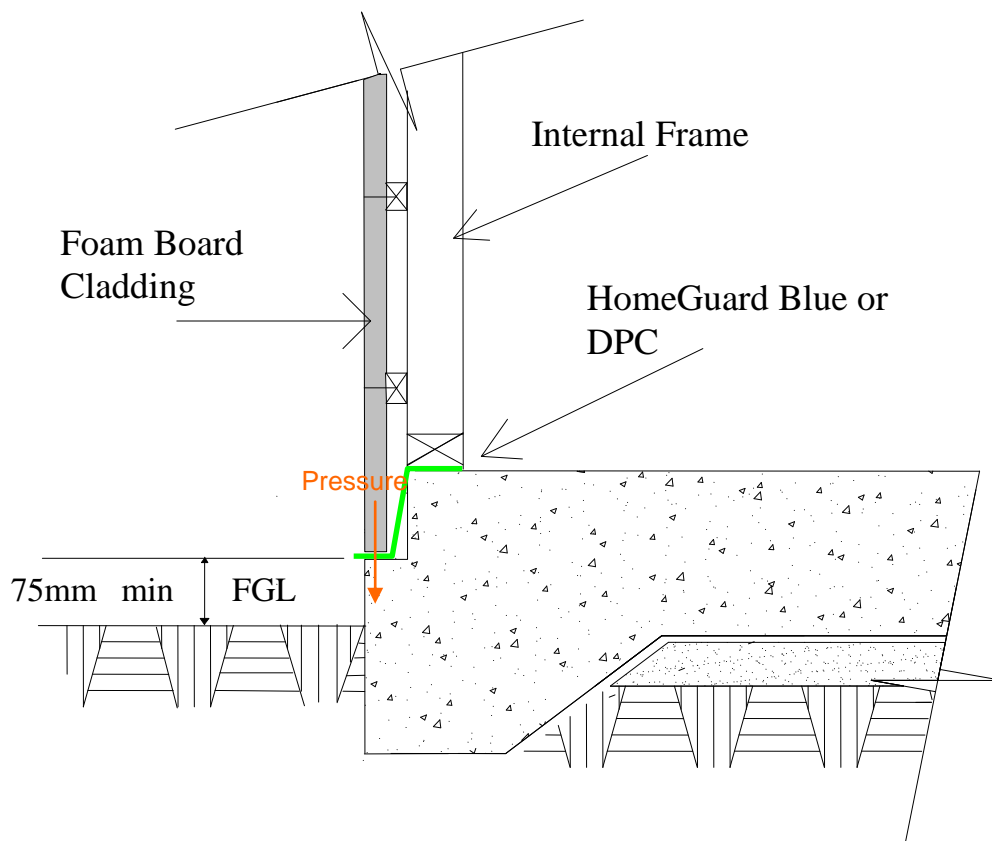
Cladding Design (PC8) / (PCB8)

- Ensure that the cladding is pressing firmly against the concrete slab of the house.

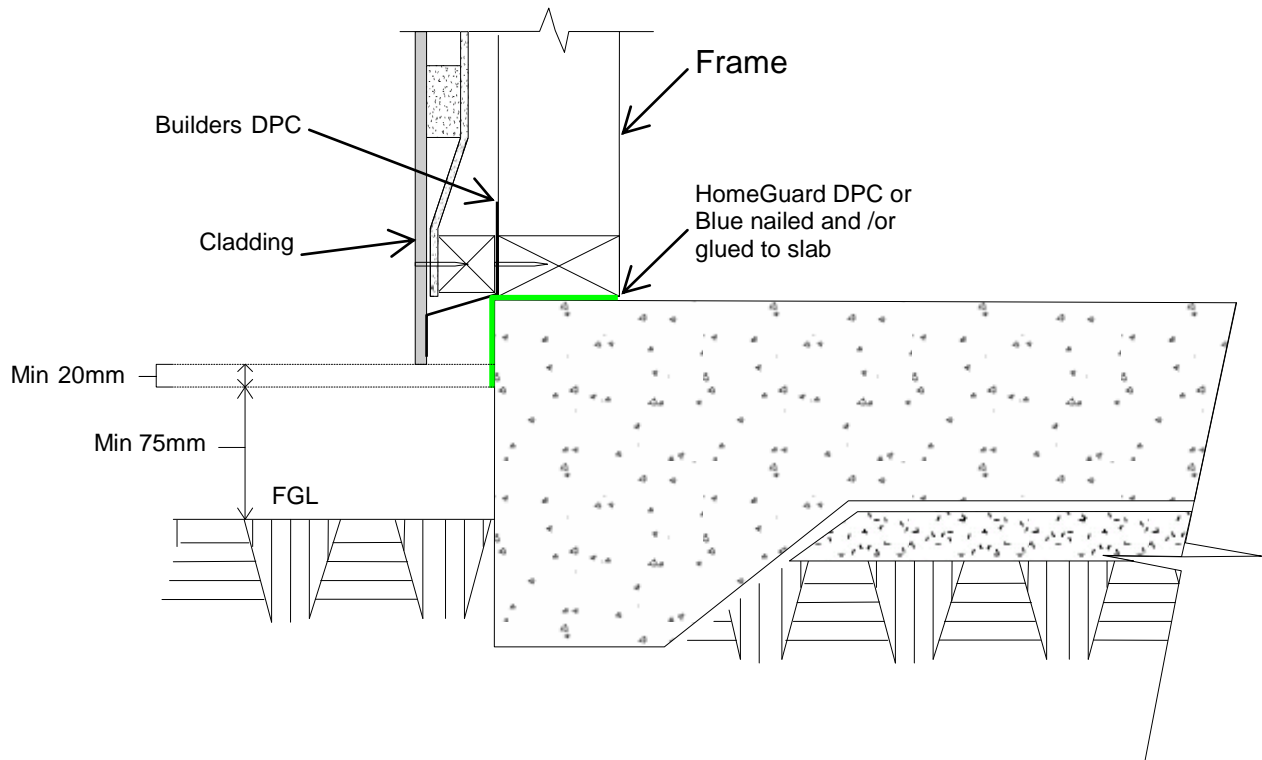


Cladding Design (PC 9) / (PCB9)

- Ensure that the cladding panels are pressing firmly down onto the rebate of the slab

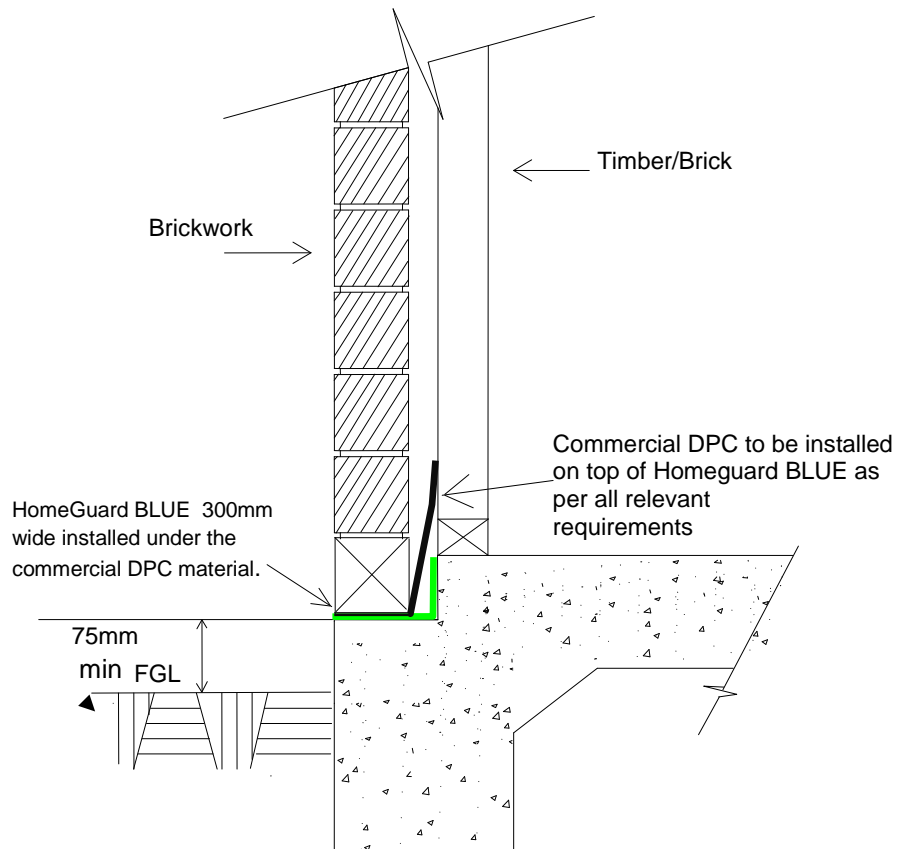


Cladding Design (PC 10) / (PCB10)



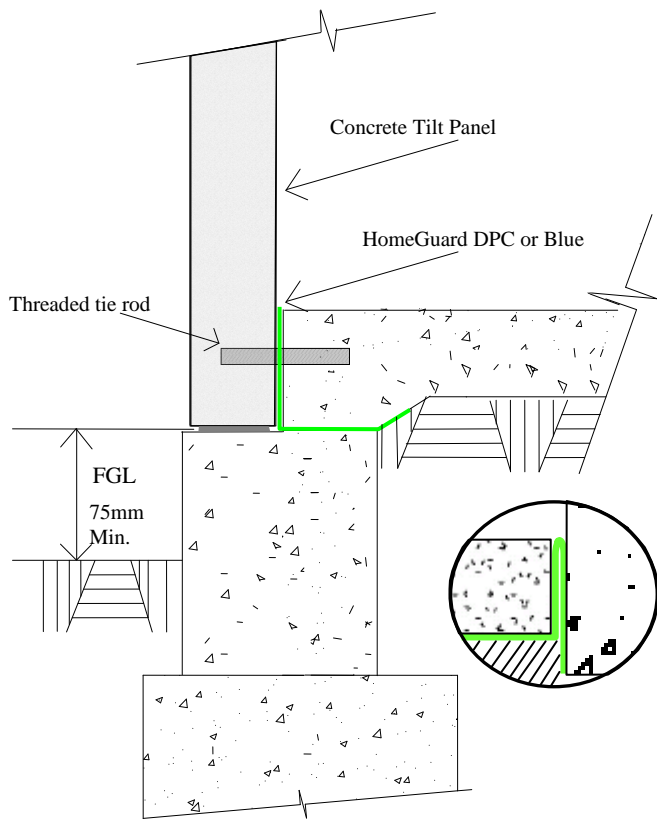
Perimeter cavity detail – South Australian Rebate (PC 11) / (PCB 11)

- Use the instructions for South Australian Corner construction
- Nail HomeGuard to the rebate at 1m centres, then cover nail heads with approved sealant

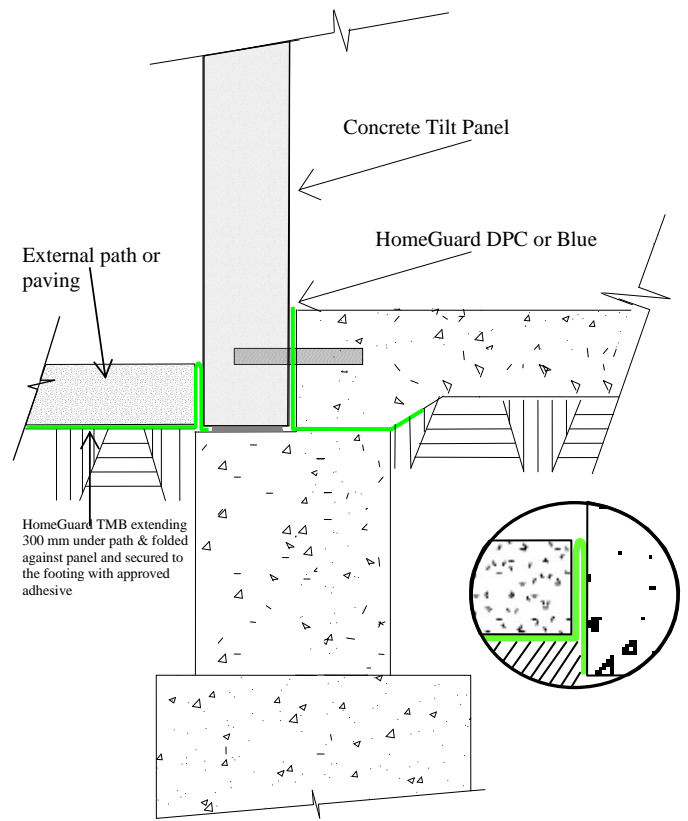


Commercial Detail – Concrete Tilt Panels

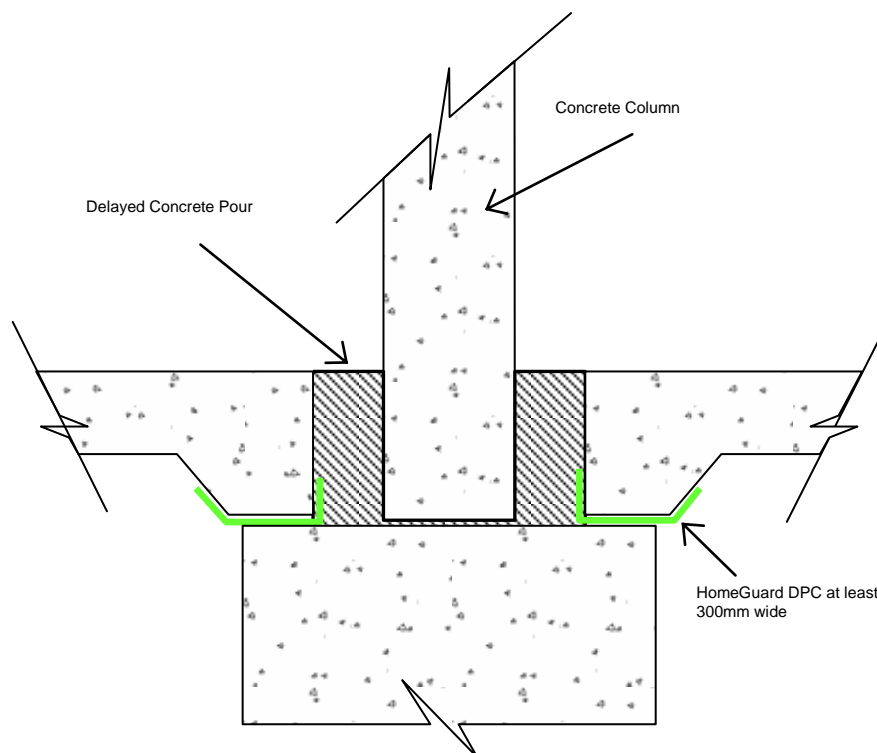
(PC 12) / (PCB12)



(PC 12a) / (PCB12a)

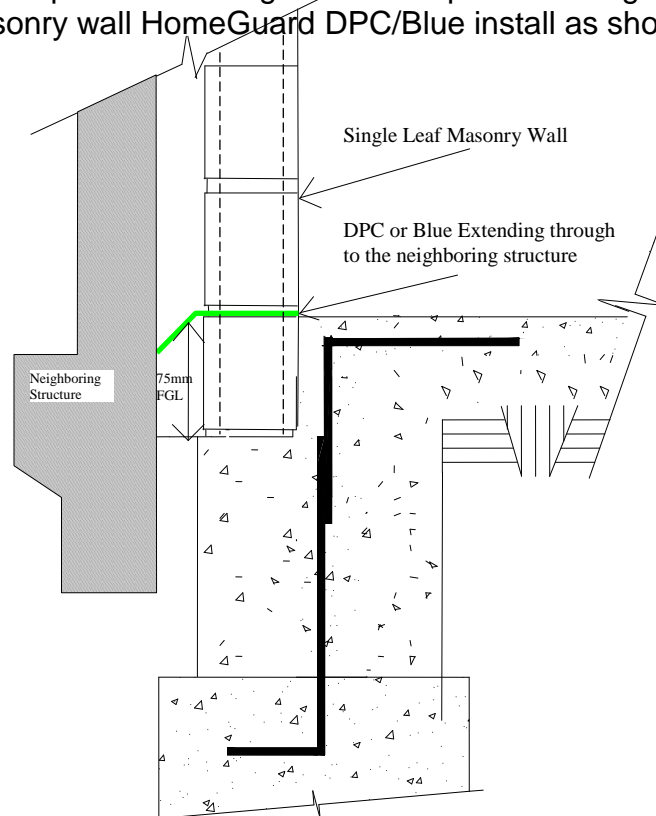


Commercial Detail – Concrete Tilt Panels - internal walls (PC 13) / (PCB13)



Single Leaf Masonry Wall on a Zero allotment– (Misc 5) / (MiscB 5)

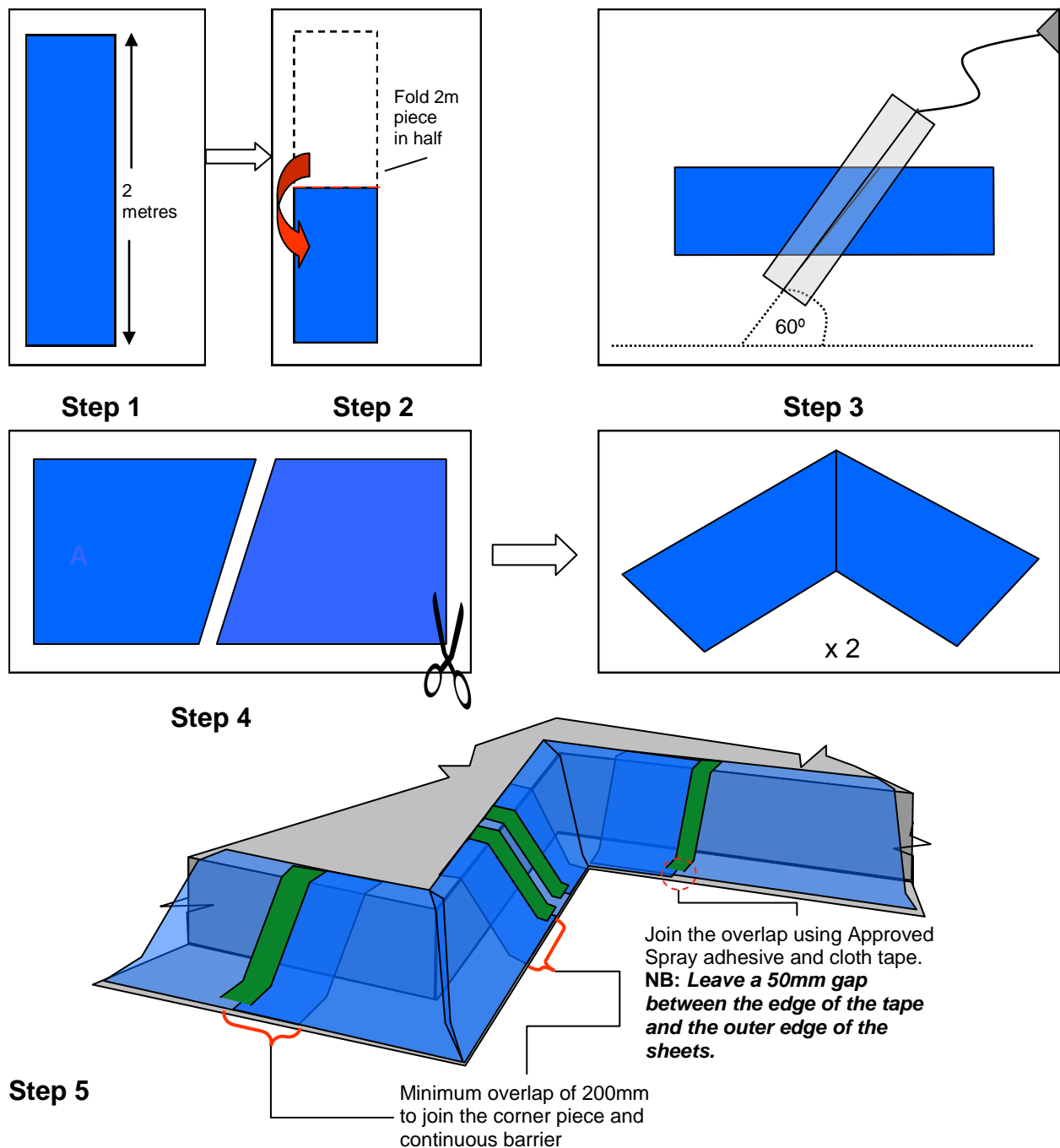
Where the HomeGuard product is being installed to protect a single leaf Zero allotment masonry wall HomeGuard DPC/Blue install as shown below.



HomeGuard Corners

Pre-Fabricated Corner Construction

1. Cut a 2m length of HomeGuard DPC/Blue (300mm wide)
2. Fold the sheet in half (lengthways)
3. With the heat sealer on setting 4 (Blue) or 6 (DPC), set the sealer to a 60° angle and seal the folded sheet to the extent where the two halves pull away from each other (i.e. the sheet melts)
4. Cut the folded end (i.e. from the first fold). Two corners are now ready for use
5. When joining the corners to the rest of the sheet, ensure there is a 200mm overlap, and then tape with cloth tape or with an approved aerosol glue.
Important: Do not tape all the way to the outside edge of the sheet.

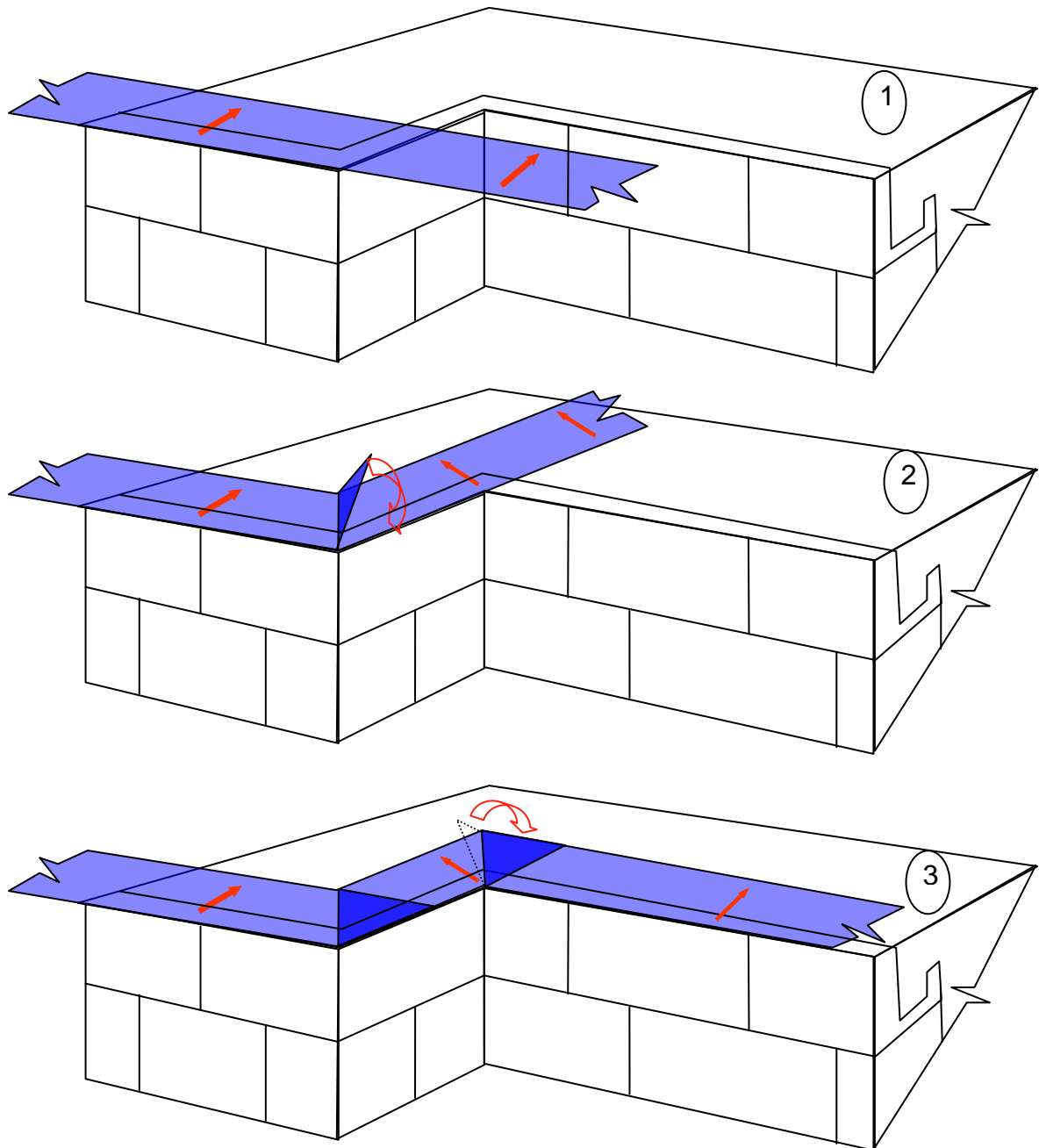


NB: Keep the fold on the upside for external corners and on the underside for internal corners

Continuous Corners

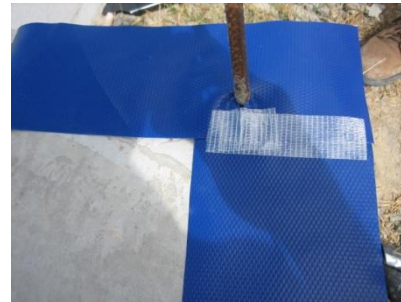
(Block construction and GT installs only)

- Adhere the corner folds flat to the continual barrier sheet
- Not required to cut or staple
- This type of corner is restricted to flat surfaces only (e.g.: block construction and brick cover strip for GT installations) and should not be used in perimeter cavity situations



Perimeter Corners- (Block Construction with Starter Bars)

- Corners with starter bars are formed by installing the first sheet of HomeGuard Blue or DPC as already described
- The second sheet of HomeGuard DPC or Blue is laid along the next perimeter edge and placed over the first sheet at the corner. Tape the join.



- Cut a piece of HomeGuard sheet (same material as that being installed) 200 x 150mm mark and cut a hole in it with the 8 mm wad cutter.
- Slide the patch over the starter bar and place it on top of the second sheet.



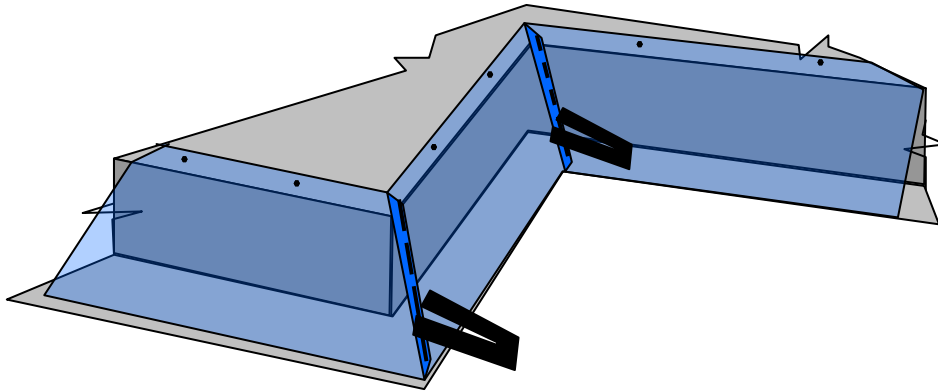
- Tape the patch securely to perimeter sheets with an approved adhesive.



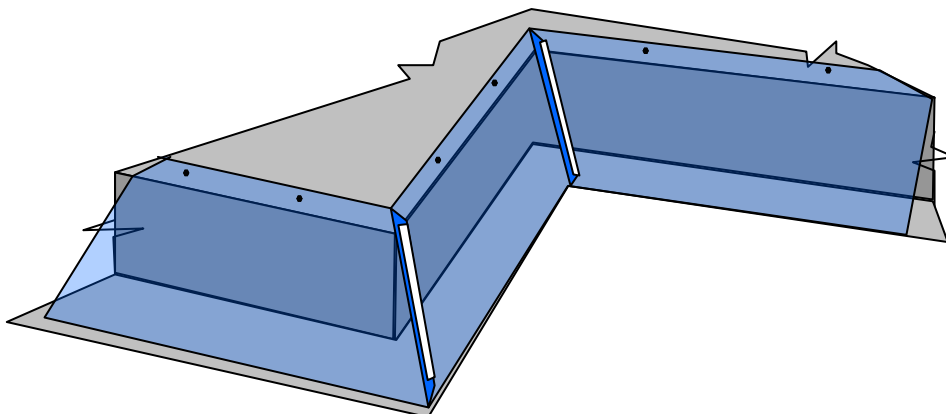
Repair of HomeGuard Corners (On-site)

- If a heat sealed corner has been damaged after/during installation, use the following steps to repair it.

1. Heat seal or staple and tape leading edge



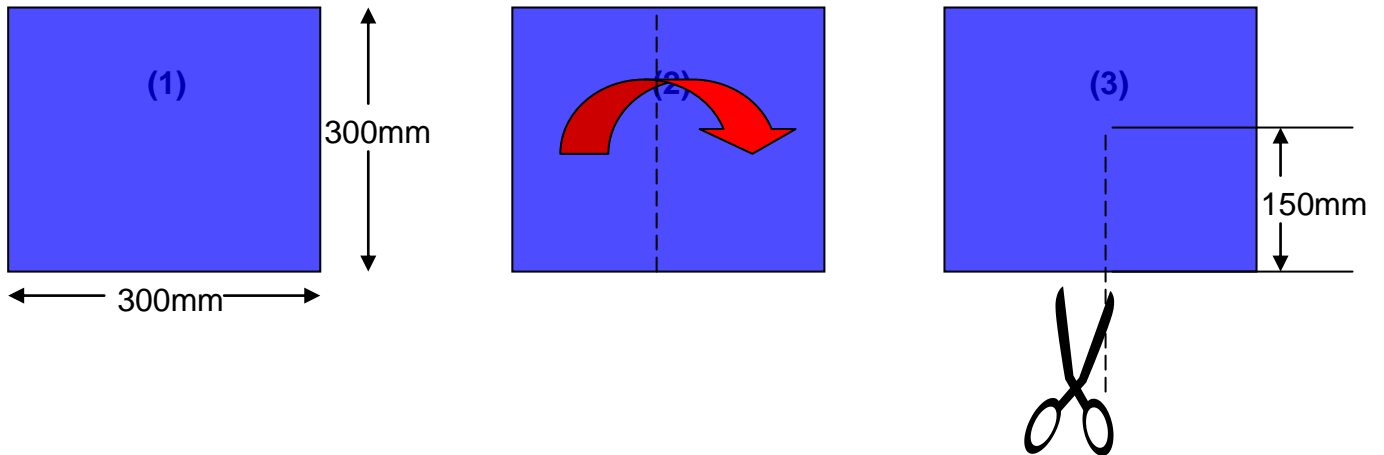
2. Fold the taped edge a second time and tape flat to the existing barrier. The joined seam is then folded over and anchored by the frame bottom plate and bricks.



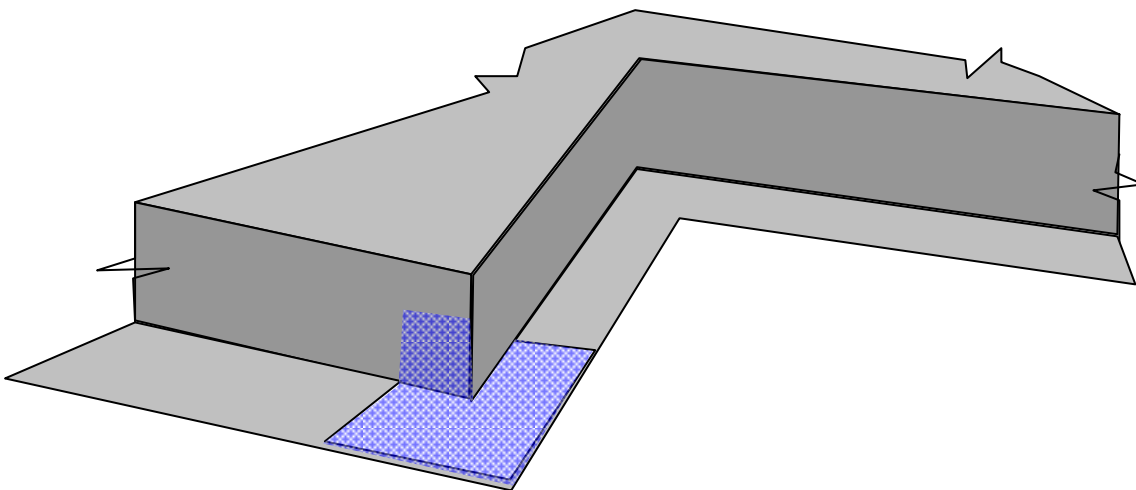
South Australian corner construction

External corner (SA)

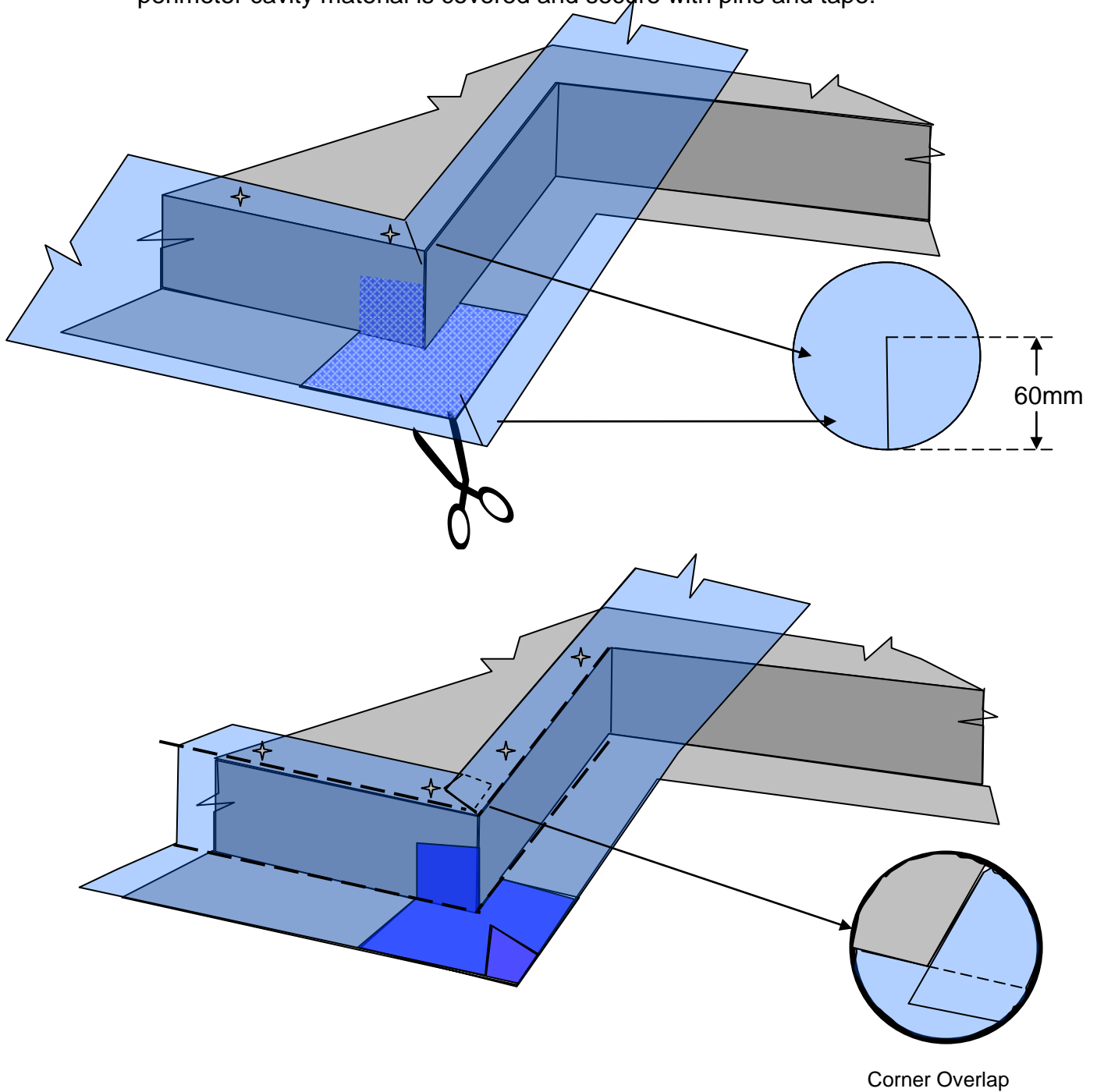
1. Cut a strip of HomeGuard 300mm x 300mm.
2. Fold the square of sheet in half.
3. Cut 150mm to the centre of the square along the fold line.



4. Place this strip on the horizontal surface of the slab at the corner. Push one side of the cut flap up the horizontal side of the slab and lay the other side of the flap along the brick line and pin the sheet tightly into the corner so that the leading edge is pinned very tight into the corner angle.



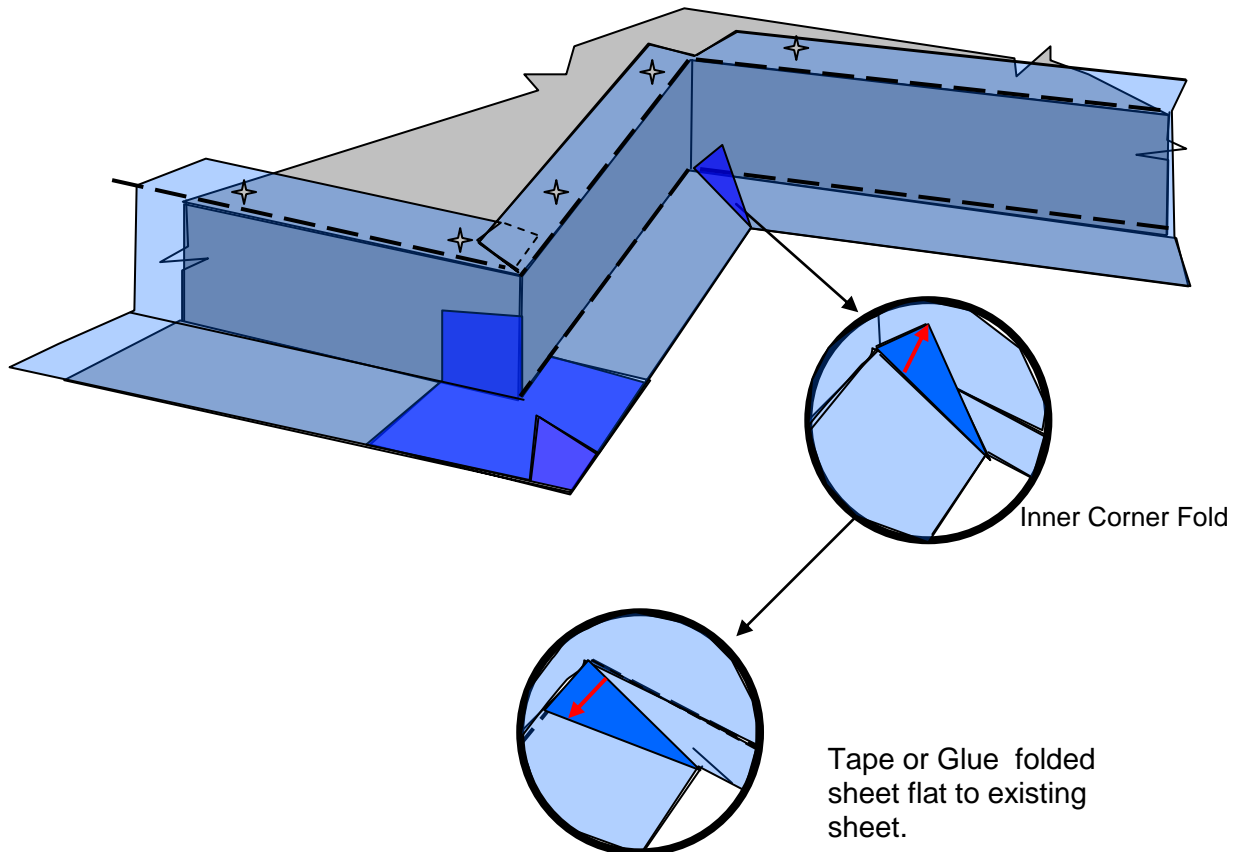
5. Make a 60mm cut at the top of the corner and again at the bottom so that the HomeGuard Blue can be folded round the corner. Adhere HomeGuard Blue to the inside edge of the slab. Ensure that the hole between the bottom strip and the perimeter cavity material is covered and secure with pins and tape.



Above: Completed External Corner (South Australia)

Internal corner (SA)

- Bottom plate area of the slab is cut 60mm on the corner and the HomeGuard is bent around the slab edge and the fold on the brick line is pulled UP. Fold is then pinned in the mortar line. No cutting is required. The HomeGuard is then secured to the inner side of the slab.
- This installation still requires the HomeGuard to be firmly secured under the bottom plate and in the mortar line. The use of an approved adhesive can assist in the securing of the HomeGuard Blue to the concrete in the perimeter cavity.

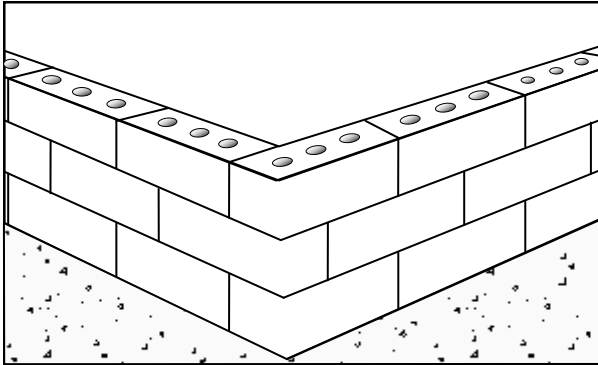


Above: Completed External and Internal Corner (South Australia)

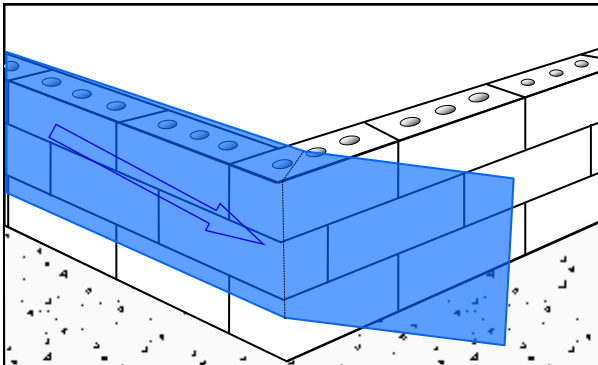
Corners for Infill Slabs (e.g.: PC4)

- When using these corners to form PC4, only use HomeGuard DPC or HomeGuard Blue, as this installation is classified as a perimeter installation and *not* a full under installation (i.e HomeGuard TMB should not be used for this function as it is a classed as a perimeter protection)

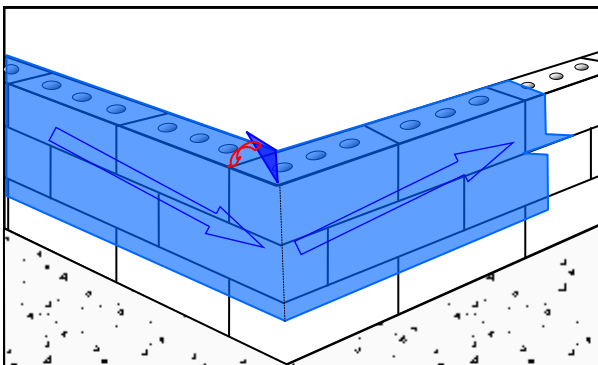
External Corners



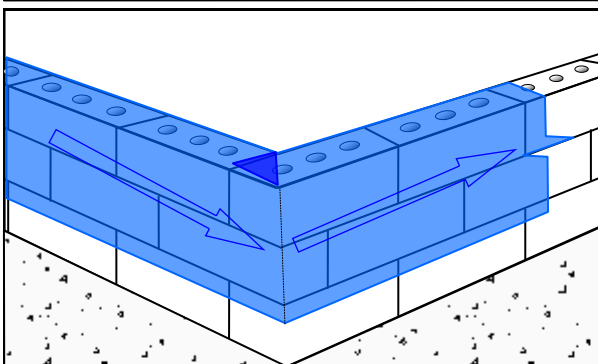
- Ensure that all surfaces are clean of any debris (eg: mortar etc)



- Wrap the HomeGuard around the external corner ensuring that the edge of the sheet is in line with the external edge of the bricks



- When the corner is formed, there will be an envelope of sheet appear at the top of the Brickwork.



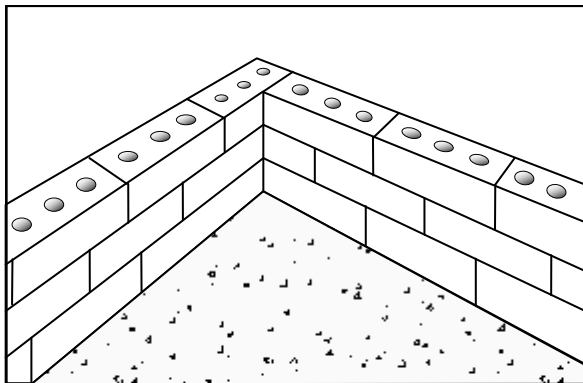
- Glue the corner envelope of sheet back down onto the rest of the barrier sheet.

- **NB:** Ensure that the sheet is thoroughly adhered to the brick work using an approved glue. Especially where the sheet sits on top of the bricks. Do not nail into bricks as this may cause damage.

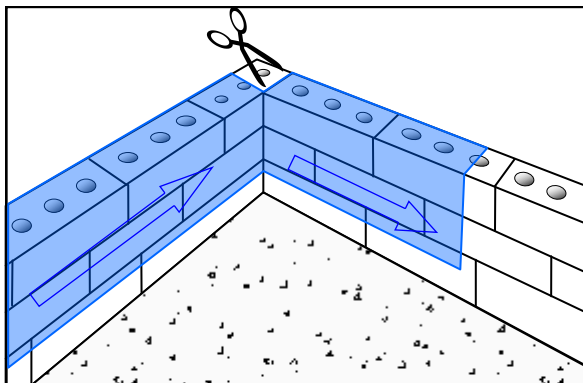
Corners for Infill Slabs (e.g.: PC4) continued

- When using these corners to form PC4, only use HomeGuard DPC or HomeGuard Blue, as this installation is classified as a perimeter installation and *not* a full under installation (i.e HomeGuard TMB should not be used for this function as it is a classed as a perimeter protection)

Internal Corners

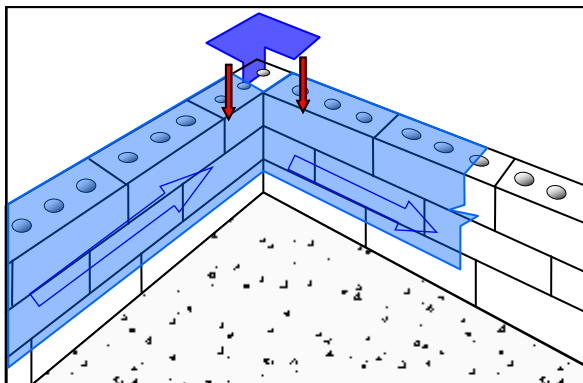


- Ensure that all surfaces are clean of any debris (eg: mortar etc)

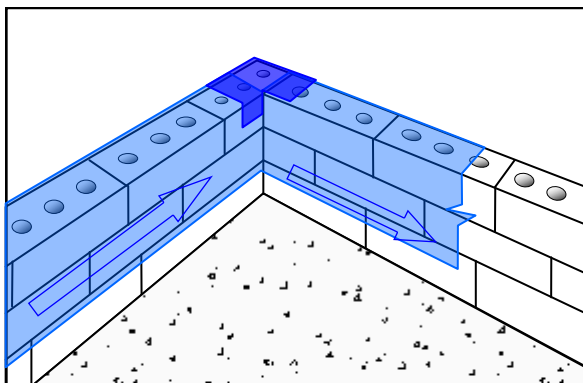
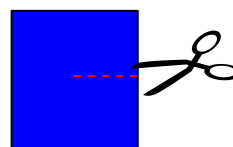


- Wrap the HomeGuard around the internal corner ensuring that the edge of the sheet is in line with the external edge of the bricks.

- At the corner, cut a slit perpendicular to the sheet, enough to allow the sheet to be folded down onto the top of the bricks.

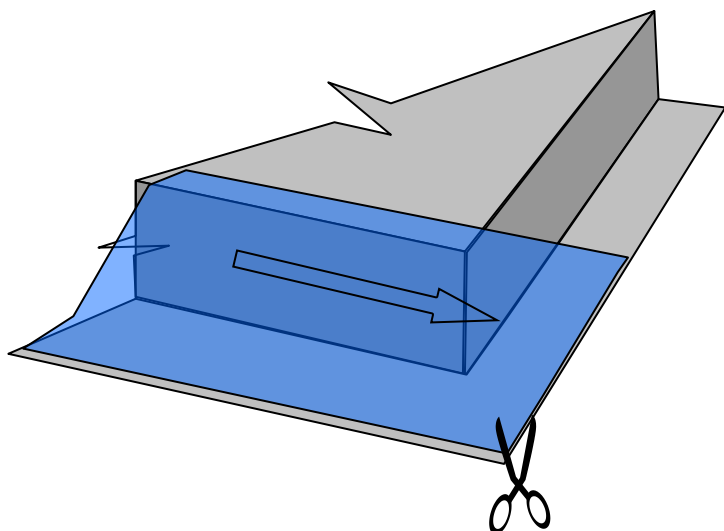


- Create a patch by cutting a square of the same sheet (DPC or Blue) used for the perimeter 220 x 220mm
- Then cut a slit in the middle of the patch to half way through the patch. (as below)

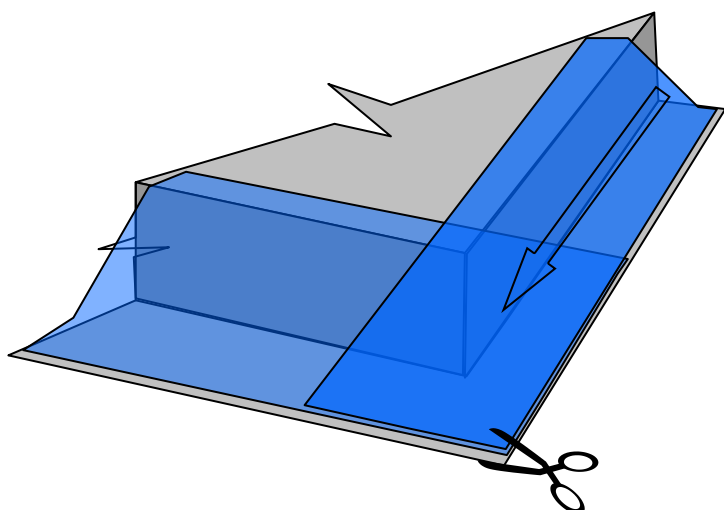


- Glue the patch over on top of the continuous sheet to ensure that the gap created by the corner cut is securely covered and overlapping.

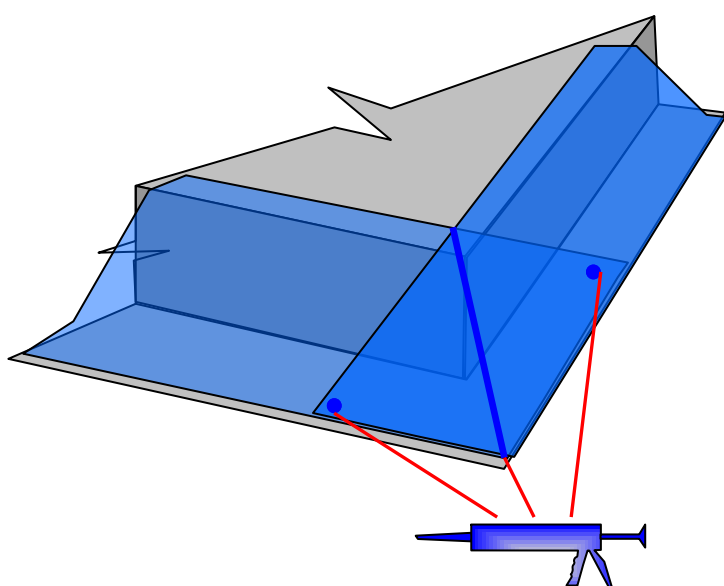
HomeGuard Termiflex - Cut and Glue Corners



Step 1: Secure HomeGuard sheet to the slab as usual. Cut the sheet, leaving enough length to reach the external edge of the slab



Step 2: Overlap the adjacent sheet and trim to the correct length so that it will continue to the external edge of the slab

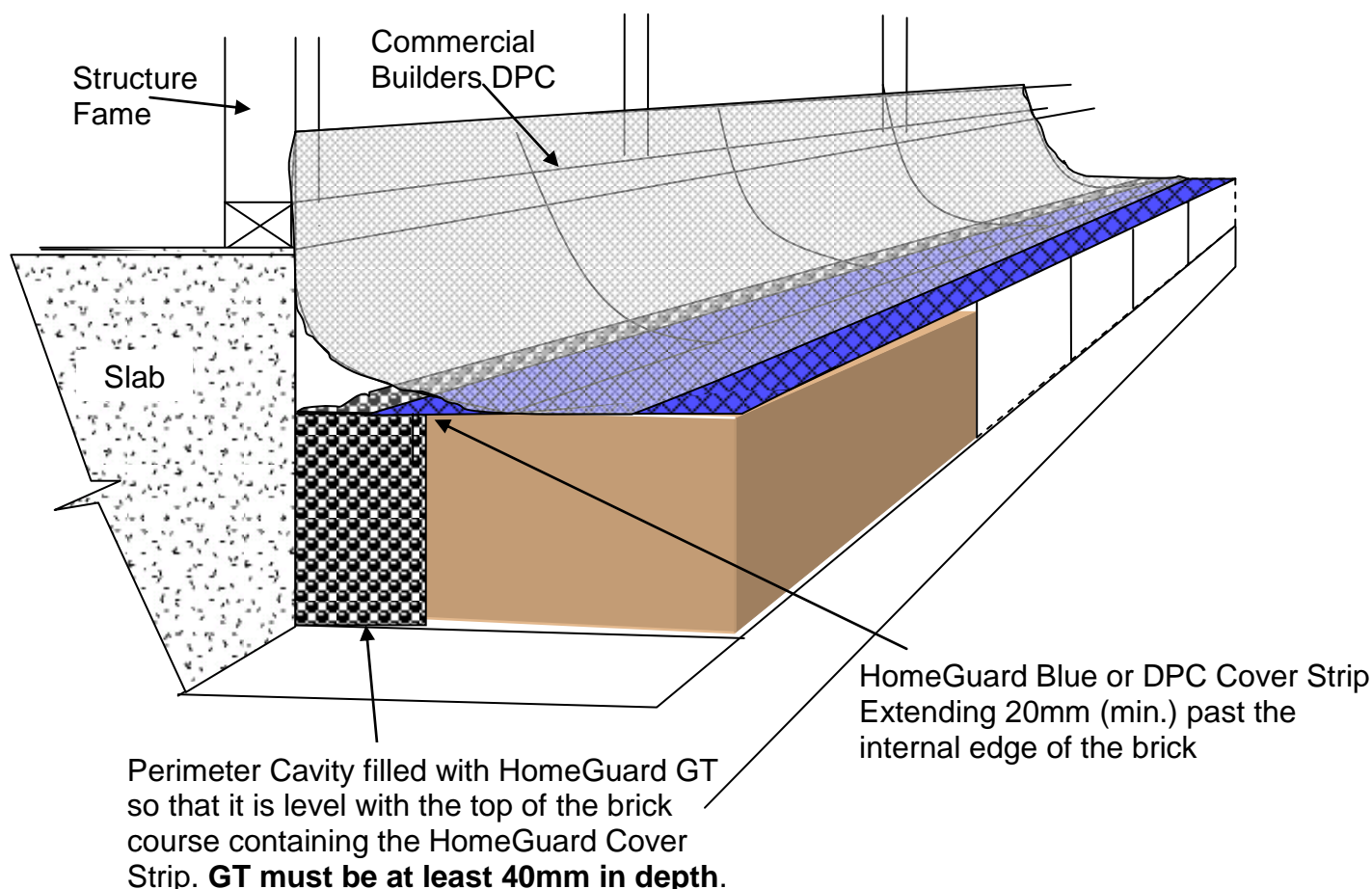


Step 3: Between the two sheets, apply a continuous bead of Termiflex (approx 5mm wide) diagonally across from the internal corner to the external corner. Also place a dollop of Termiflex on the opposite corners of the over lapping sheets as per the illustration to right

HomeGuard GT – Perimeter Cavity

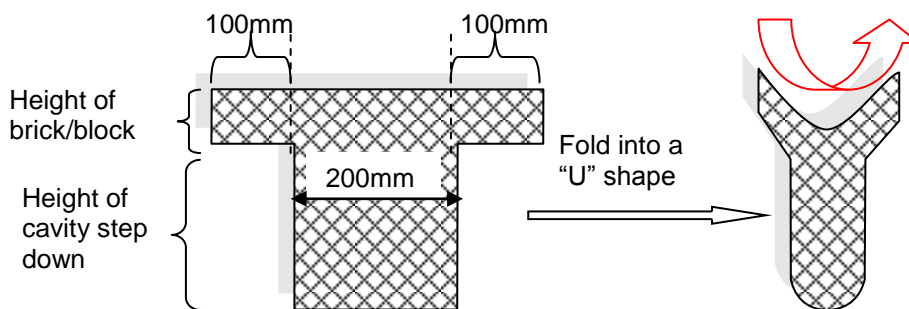
Instructions for HomeGuard GT perimeter cavity installations

- Once the first course of bricks have been laid, ensure that any gaps left between bricks for the purpose of expansion joints have been filled with an approved sealant
- Insert weep hole 'pest stoppers' to all weep holes around the cavity (*if required*)
- Check the perimeter cavity and remove obstructions (i.e. mortar slag) that may disrupt the even depth or width of the granules
- Fill the cavity void with HomeGuard GT to a **minimum of 40mm** and so that it is level with the top of the brick course containing the HomeGuard Cover Strip. This can be achieved by inserting a layer of fine drainage gravel ($\geq 6\text{mm}$ diameter) at the base of the cavity to increase the finished level of the granules
- Ensure that the cavity is wide enough to allow a continuous barrier of GT can be installed (eg. 10-20mm)
- Lay a cover strip (HomeGuard Blue or DPC) on top of the barrier course of bricks so the sheet has horizontal contact with the granules with an overlap of at least 20mm
- All corners are to be constructed so the cover strip is continuous around the perimeter.
- Construct the corners using the HomeGuard Blue continuous corner technique (see page 52)
- Use an approved adhesive to hold the Strip to the bricks
- Commercial Damp Proof Course can then be installed



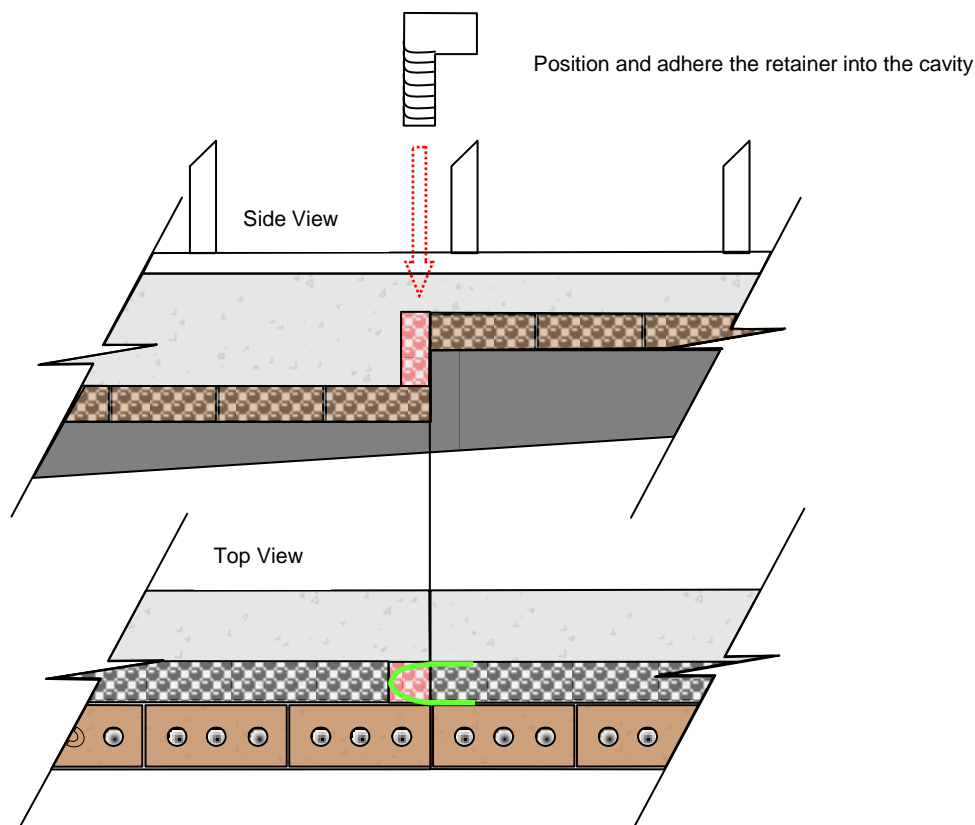
Cavity Step-downs using HomeGuard GT

- If the slab steps down within the cavity when using HomeGuard GT – Cut a piece of HomeGuard DPC in the shape of a “T” as illustrated below.
- Make the horizontal section of the “T” the same height as the brick or block (eg: 75mm if the wall is being constructed using standard 75mm high bricks). Make the vertical of the “T” as long as the height of the rebate.
- The “T” piece is then bent into a “U” shape, ready to be used as a retainer



Above: Dimensions of a retainer for HomeGuard GT in a cavity step down situation

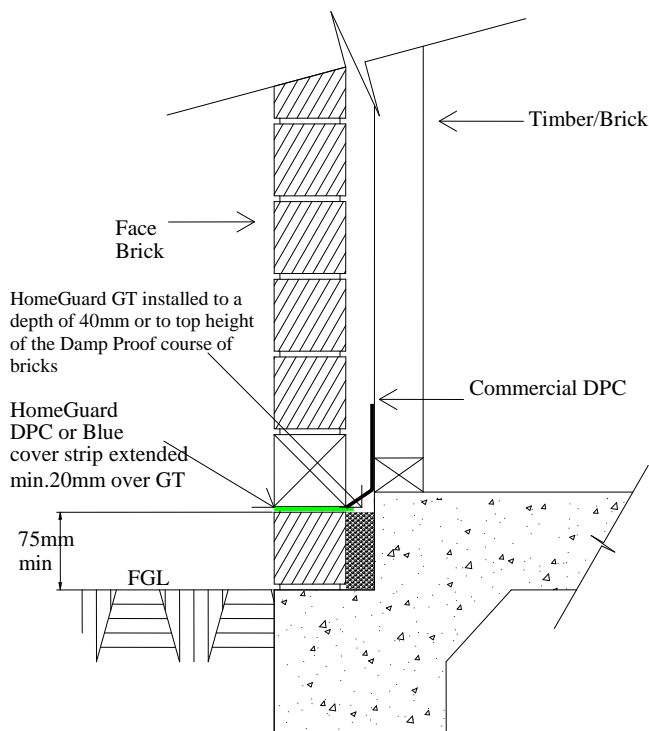
- Place an approved adhesive on the internal side of surfaces (ie. Bricks and cavities on both levels)
- Insert the retainer and ensure that there is a strong bond between the DPC sheet and the slab and bricks (see diagram below)
- Once the adhesive is cured, pour the HomeGuard GT in and around the retainer so to ensure there is a continuous barrier of HomeGuard GT
- Install the HomeGuard sheet cover strip as per usual



Above: Showing the side (top) and overhead (bottom) detail of a cavity step down protected with HomeGuard GT

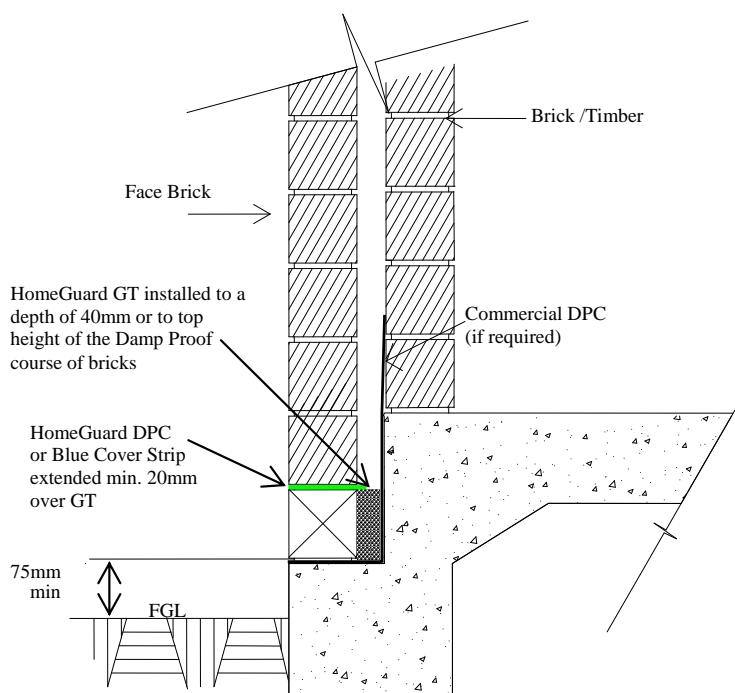
Perimeter cavity detail – single Rebate (GTPC1)

- The perimeter cavity can either be entirely filled with HomeGuard GT or partly filled with compacted sand or crusher dust. In either case, the finished height of HomeGuard GT must be the same height as the HomeGuard cover strip.



Perimeter cavity detail – multi rebate (GTPC1) SA

- The perimeter cavity can either be entirely filled with HomeGuard GT or partly filled with compacted sand or crusher dust. In either case, the finished height of HomeGuard GT must be the same height as the HomeGuard cover strip.



HomeGuard Termiflex Adhesive and Sealant

Introduction: HomeGuard Termiflex adhesive and Sealant combines the properties of a proven, high quality, polymer based, construction adhesive with a proven, synthetic pyrethroid termite, bifenthrin. It has been developed to be used in conjunction with other HomeGuard products:

- To join HomeGuard sheet products to each other (e.g. Joining HomeGuard TMB sheets to achieve sheets > 4m wide and Joining HomeGuard Blue sheets and HomeGuard DPC at joints and corners), and
- To aid installation of HomeGuard sheet products by attaching them to structural elements of buildings such as concrete slabs, and/or timber framing, and
- To ensure barriers are complete and continuous by ensuring there are no gaps in joints; e.g. between HomeGuard Blue/DPC under the “*bottom plate*” when the concrete slab is uneven, and
- As HomeGuard Termiflex contains a flexible polymer it can also be used in ‘*stand-alone*’ roles, such as barriers in control joints in concrete slabs to prevent concealed termite entry and where there is no easy method to seal cracks and joints; and
- HomeGuard Termiflex can also be used to create “plugs” around electrical cables to prevent termites making concealed entry via electrical conduits; and
- Repairing and patching HomeGuard sheets and installing HomeGuard sheet collars.

HomeGuard Termiflex Adhesive and Sealant is a clear or blue gel with a slight solvent odour. It is insoluble in water and excess material on working surfaces, tools and hands can be removed by wiping with a rag or cloth dipped in “turps” {see cleaning up with other solvent based building adhesives}.

HomeGuard Termiflex is available in 260g, foil lined, cardboard cartridges and in 520g/600mℓ “foil” sausages. To ensure trouble-free use, and to prevent damage, cartridges and sausages should be stored in closed original containers in cool, dry, well ventilated situations away from children, animals and food.

Do NOT store HomeGuard Termiflex in high temperature situations such as “ute” boxes or tool boxes.

Do NOT allow the cartridges to get wet or damp.

Do NOT store in direct sunlight.

Using and applying HomeGuard Termiflex: HomeGuard Termiflex is applied with standard caulking guns. To avoid problems user should purchase better quality guns and keep them well maintained; ensure that the plunger is properly aligned.

1. **Cartridges:** Remove the tip of the nub, and pierce the seal to allow the adhesive/sealant to flow from the cartridge; fit a fresh nozzle.
Sausages: Fit the sausage into the barrel of the gun and cut off the sealing clip; fit a fresh nozzle.
2. Ensure that the piston/plunger is correctly aligned before applying pressure.
3. Cut off the tip of the nozzle at angle of 45° and adjust until a 6mm bead is achieved.
4. Ensure that surfaces to be joined are free from dust, loose particles and soap residues.
5. Apply HomeGuard Termiflex by pumping the adhesive firmly into the joint or onto a surface, in a continuous, steady flow to form a continuous bead of approximately 6mm diameter; push the adhesive/sealant ahead of the nozzle.
6. When applying to wet materials, keep nozzle very close to the surface so that the adhesive/sealant is in contact with the surface and forces water away. If adhesion to wet materials is difficult, wipe the surface to be glued with a rag or cloth soaked in acetone and apply the Termiflex to the partially dry substrate. Adhesion may be achievable on a wet porous substrate such as some concrete and some wood.
7. For effective adhesion the adhesive/sealant must start drying shortly after application.
8. For a neat, smooth finish, smooth sealant surface immediately with a suitable spatula dipped in turps.
9. When using Termiflex to fix HomeGuard sheet to a surface, ensure that a 'skin' does not form before the sheet is applied. The time for a skin to form varies from 3 to 7 minutes depending on weather conditions and time of day.
Do NOT apply Termiflex until the site is prepared and you are ready to install the HomeGuard sheet onto the freshly applied bead of Termiflex; for best results apply Termiflex in manageable length and then attach the HomeGuard sheet before 'skinning' occurs. Initially install shorter beads of TERMIFLEX, until experience and understanding of flowability and "skin" time has been gained.
10. If the entire cartridge or sausage is used in the application dispose of as per instructions in 'cleaning up' below.

11. If the cartridge/sausage is only partially used and the remainder is expected to be used in the next 2/3 days seal the nozzle with a nail or similar and “cling wrap” or “Al foil”. When reusing warm the container in the sun before use. Remove and discard used nozzle and clear any dry or hardened adhesive from the nub. Fit a new nozzle and cut as above.

Cleaning up

Clean tools, hands and spills, before adhesive/sealant cures, with a cloth dipped in mineral turps or white spirit.

- When empty, dispose of cartridges/sausage foils in an industrial waste container/skip.
- Do NOT allow the product or the used containers to get into creeks, rivers, dams, drains or other waterways.

Storage and Handling

- Under cool conditions Termiflex may thicken and become difficult to push out of the nozzle. If possible warm the cartridge/sausage in the sun or by sitting on a warm surface (e.g. hot motor etc.) for a period before use.
- DO NOT heat with a naked flame.
- Similarly under very warm conditions the contents may become excessively liquid. Keep in cool shady situations conditions until ready to use.
- DO NOT store in tool boxes, Ute boxes or similar.

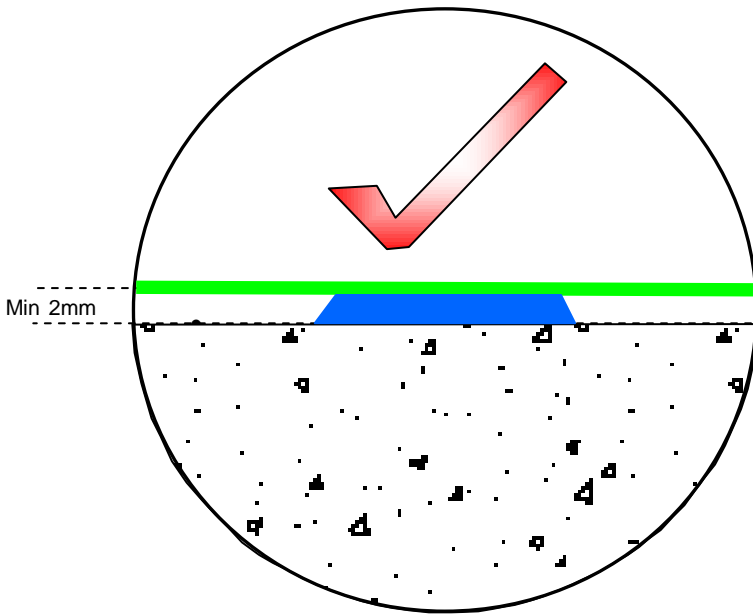
Limitations

- HomeGuard Termiflex cannot be used on poly styrene foam (e.g. Waffle pods)
- HomeGuard Termiflex should not be used in an enclosed space without ventilation
- HomeGuard Termiflex may not adhere to some wet absorbent surfaces or to old wet metals
- In very cold weather HomeGuard Termiflex may be difficult force out of the nozzle. In these situations warm the cartridge (to room temperature) before use.
- DO NOT use excessive force to push TERMIFLEX out of the nozzle.

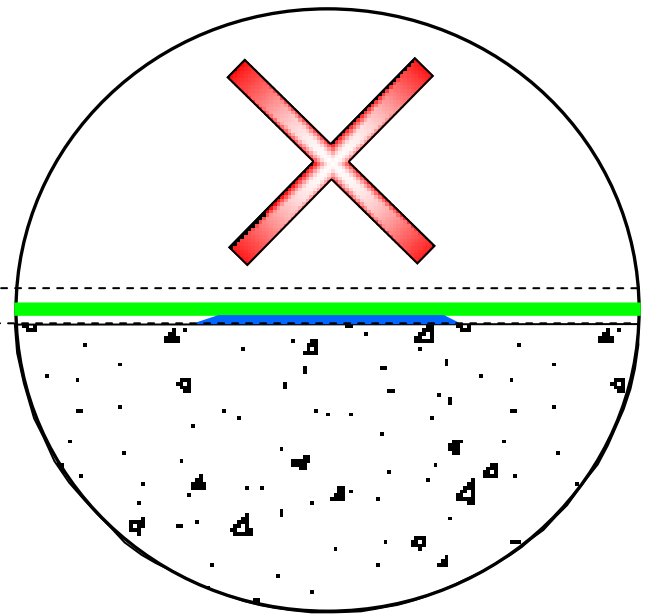
Correct Application for Concrete/Sheet Adhesion

- The following diagrams illustrate the desired application of HomeGuard Termiflex to achieve good adherence of HomeGuard sheets. The Termiflex bead must be at least 2mm thick once the HomeGuard sheet is pressed against the applied bead.

Correct

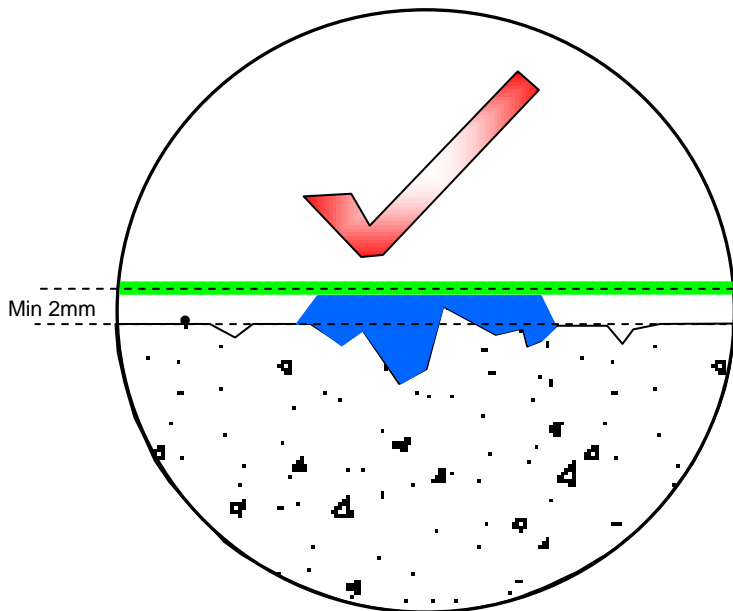


Incorrect

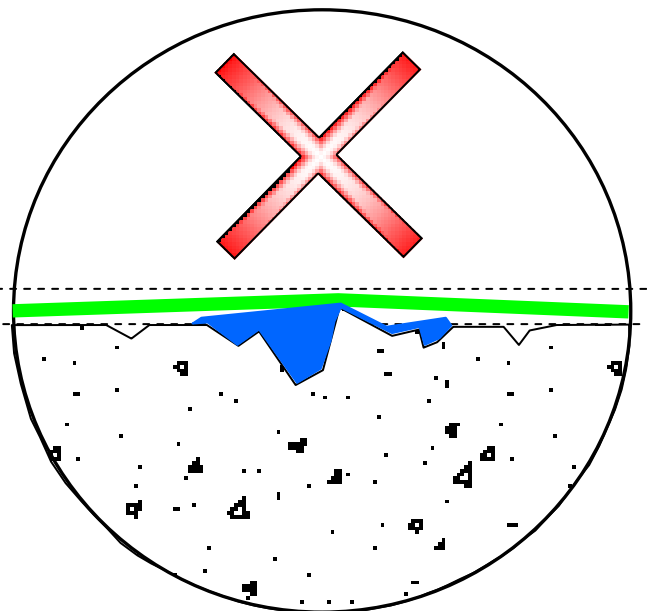


The same application is required on rough or uneven surfaces. The HomeGuard Termiflex bead must remain at a constant height above the surface and at least 2mm thick

Correct



Incorrect



Left: Generous beads of Termiflex provide complete adhesion and a continuous termite barrier

Right: Insufficient Termiflex may not ensure adhesion or a continuous termite barrier.

Side Fixing: Using HomeGuard Termiflex to attach HomeGuard sheets to concrete slabs

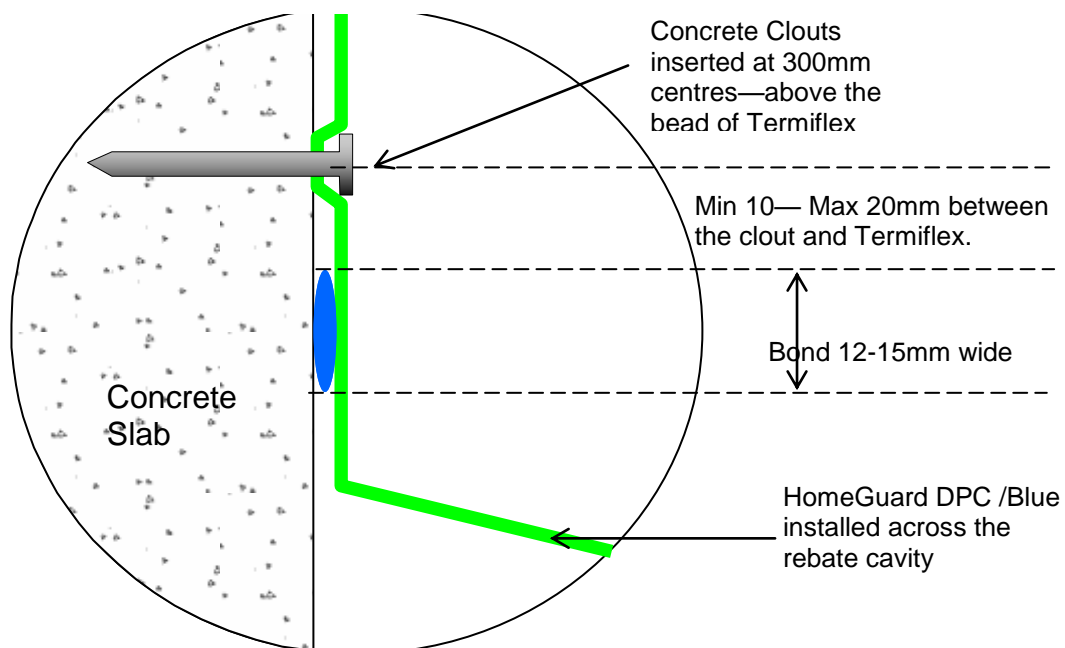
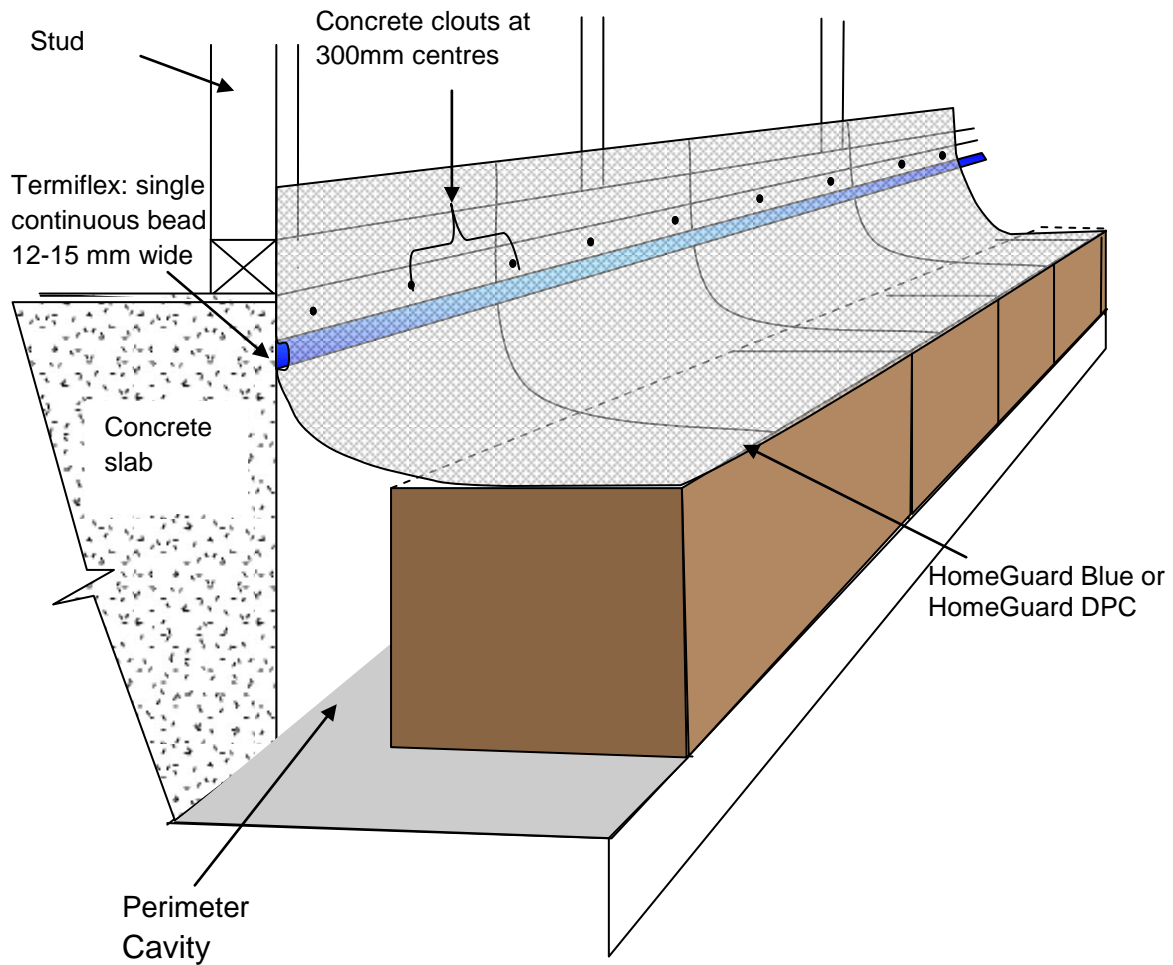


Figure 1: Details showing the relationship between the Termiflex bead and the concrete clouts

HomeGuard Termiflex - Perimeter Cavity Installations

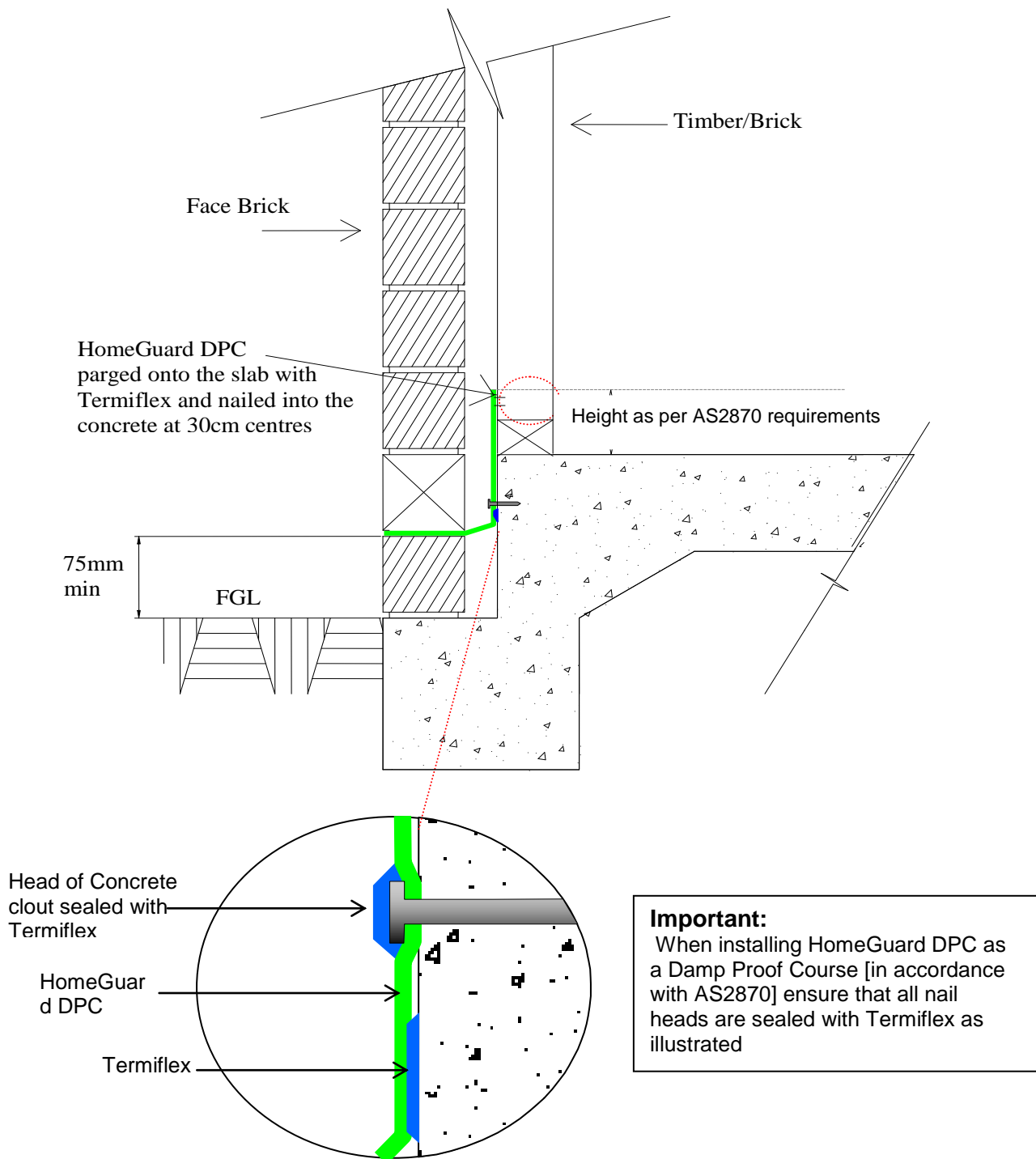
- The process of fixing HomeGuard DPC or HomeGuard Blue to the side of a slab, using HomeGuard Termiflex, can only be completed after the required brick courses have been installed by the bricklayer
- Ensure that the slab is dry, cured, clean, dust free and free of large lumps of concrete, mortar or any other substance which may interfere with the HomeGuard Termiflex adhering to the concrete surface.
Note: *HomeGuard Termiflex adheres best to dry concrete surfaces.*
- Ensure that all depressions in the concrete surface are filled with HomeGuard Termiflex to create a complete, uniform and continuous bond and seal.
- Apply a generous bead of HomeGuard Termiflex to the edge of the slab (approximately 5-8mm wide). Press the HomeGuard sheet onto the Termiflex bead along its entire length; this will create a complete and continuous bond and seal (12-15mm wide) between the HomeGuard sheet and the Concrete. The Termiflex bead at the finished bead/sheet interface should be at least 2mm proud of the surface (*see figure 2*).
- To complete the installation drive concrete clouts through the sheet into the concrete. The clouts should be inserted 10 - 20mm above the bead of HomeGuard and no more than 300mm apart.
- Never nail the clouts on the glue line as the termite barrier could be disrupted by concrete 'Blow out' due to nailing (*see figure 1*).
- Note: The HomeGuard sheet must be placed onto the HomeGuard Termiflex bead before a skin is formed on the surface of the Termiflex bead.

Key Points

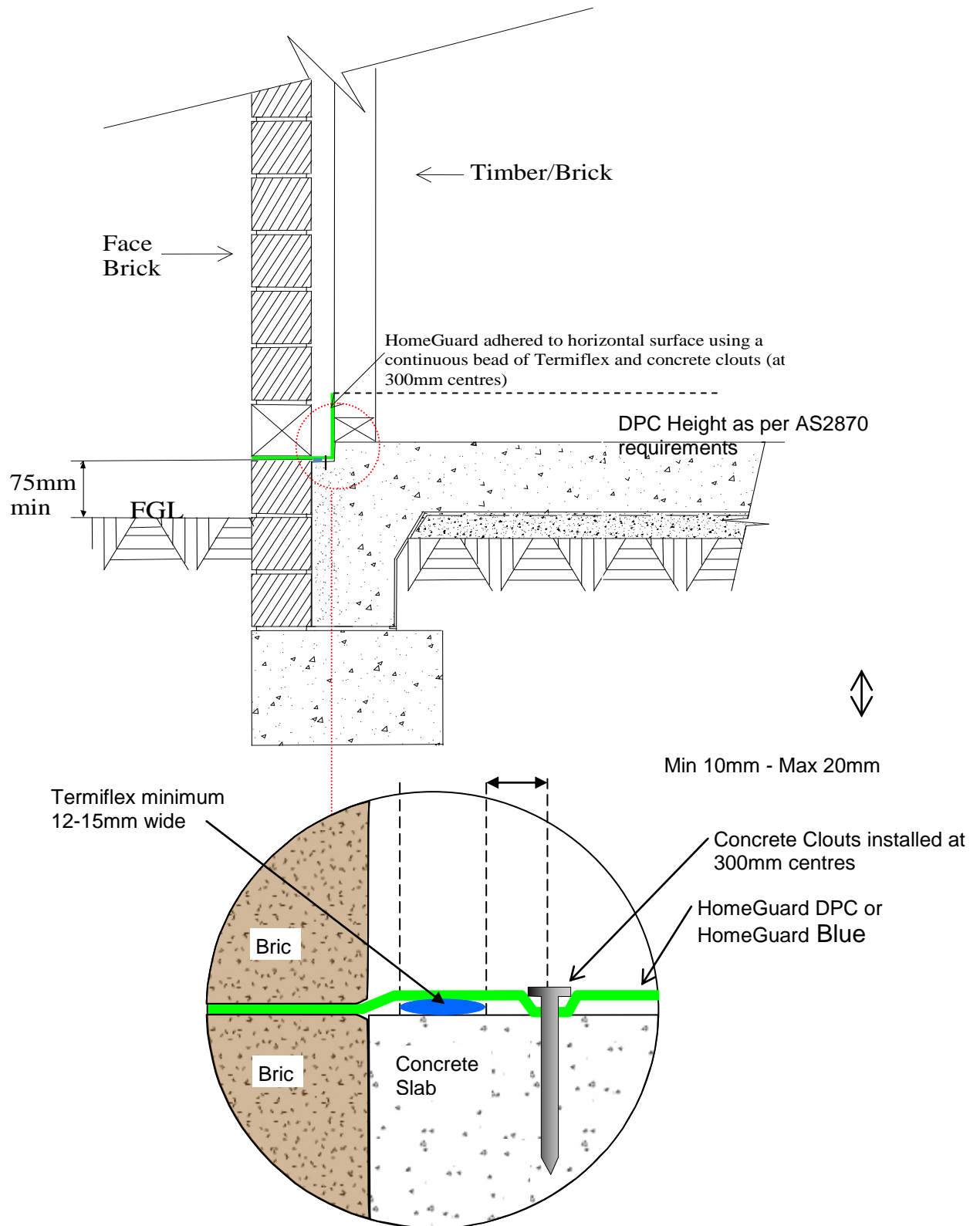
- HomeGuard Termiflex must be applied as a complete and continuous bead when fastening HomeGuard Sheets to the sides of concrete.
- Apply generous bead of HomeGuard Termiflex to ensure the formation of a termite barrier at LEAST 2mm thick after the HomeGuard sheet has been attached.
- The *solvent* in Termiflex can cause softening of *HomeGuard* sheets, at the point of contact, which may result in some localised buckling/"*puckering*" of the sheet. It can also damage some plastics such as polystyrene.

Side Fixing using HomeGuard Termiflex – DPCSP1

This type of installation will comply as a Damp Proof Course (see Australian Standard AS2870)

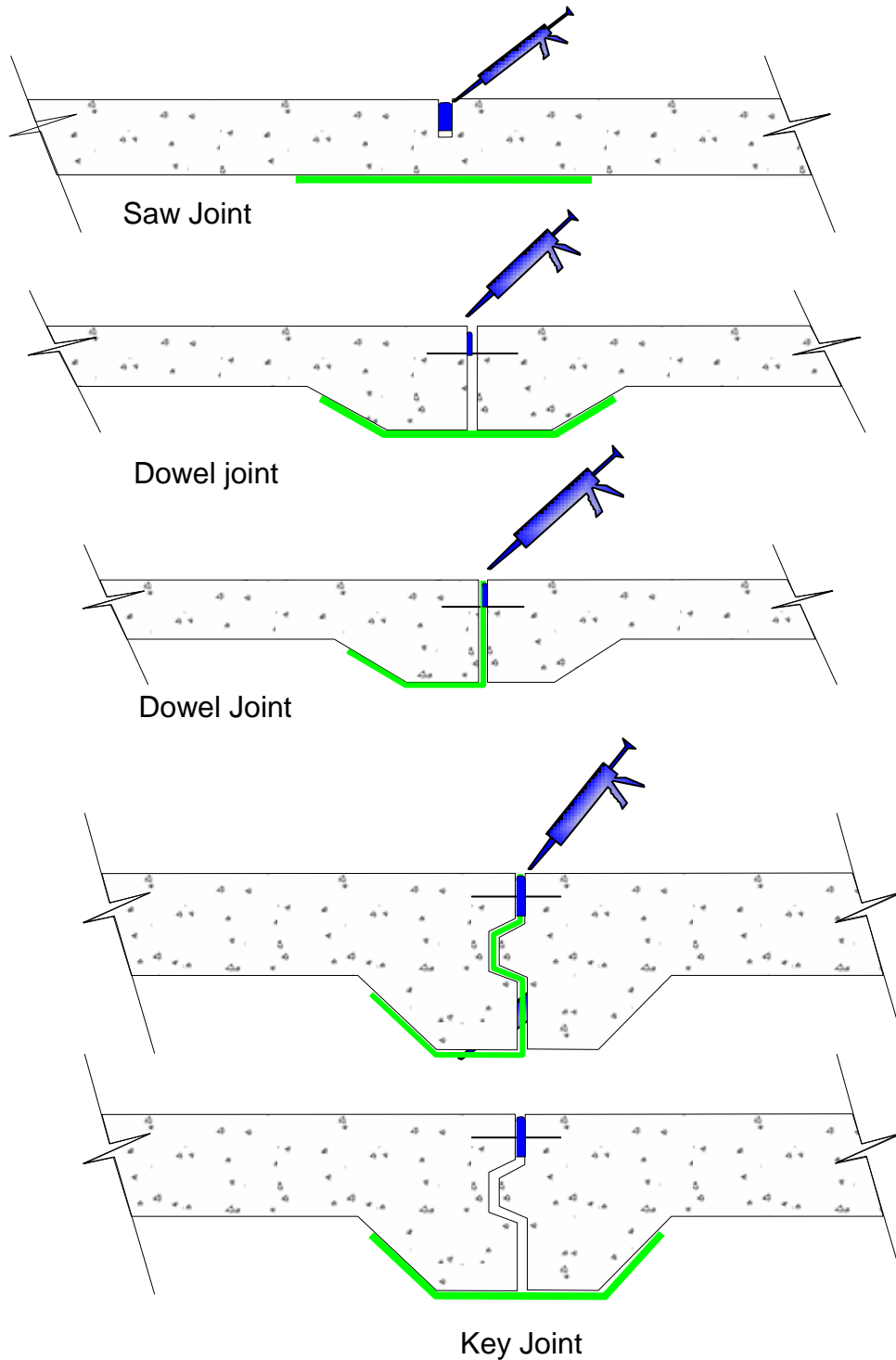


Side Fixing using HomeGuard Termiflex – DPCSP2 Infill Slab



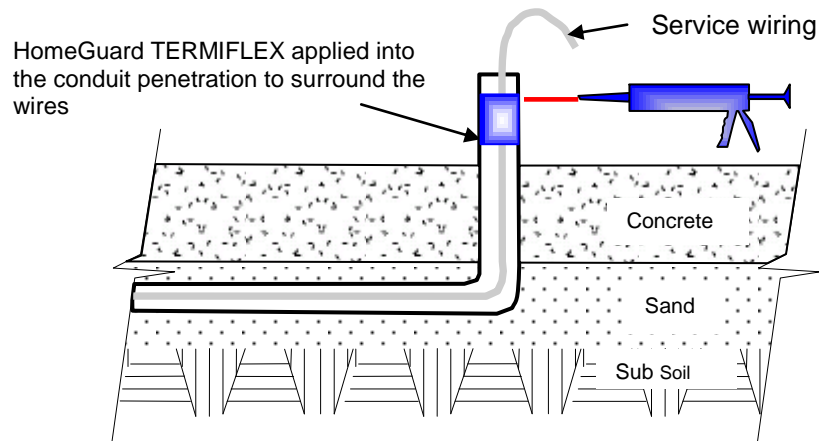
HomeGuard Termiflex - Miscellaneous Applications

Control Joints: *HomeGuard Termiflex can be used as a termite barrier in control joints. Control joint gaps MUST be filled with TERMIFLEX to a depth of at least 20mm*



FMC will not warrant gaps in the barrier caused by extensive slab movement in the control joint.

Using HomeGuard Termiflex to Install barriers in Conduits: Entirely fill void between wires and conduit (*Always get building supervisors permission before undertaking this application*)



Using HomeGuard Termiflex to seal nail heads: HomeGuard Termiflex can be used around and over nail heads to ensure there are no tears or gaps that could provide termites access.

Using HomeGuard Termiflex to seal starter bars: A bead of HomeGuard pushed into the gap between starter bars and concrete footings (complete circumference) seals gaps and fissures that prevent concealed termite access

Sheet Repair: HomeGuard Termiflex can be used to seal small spot holes in HomeGuard sheets AND to adhere and seal patches over large tears and cuts in HomeGuard sheets.

Miscellaneous Installation Details

Tiling across doorways

Often the laundry door-way does not have a frame bottom plate. Rather the tiles of the laundry area are simply run to the outer edge of the block work.

In this situation the HomeGuard sheet that covers the critical joint is to be trimmed to a width of 100 mm across this doorway only. The sheet is then adhered to the slab surface using an approved adhesive. *Please note that no water based silicon glues will adhere to the DPC product.*

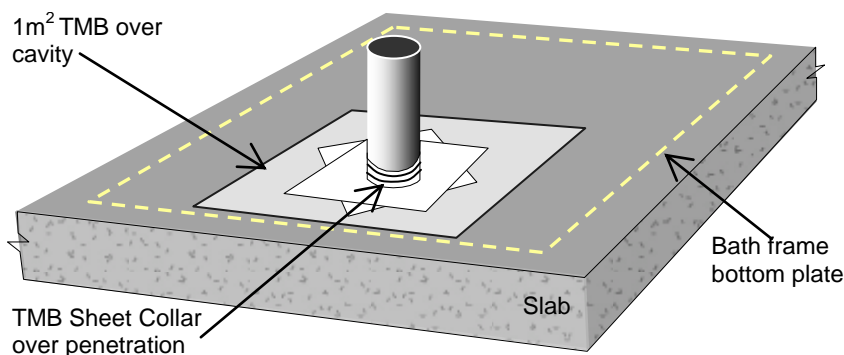
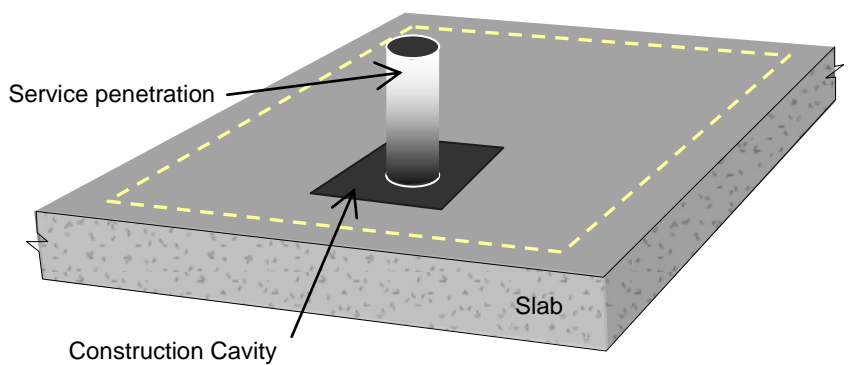
This installation should be done just prior to the tiles being laid. If the installation is done earlier than this, inspections are required by the accredited installer to make sure that the integrity of this part of the installation is maintained during the construction phase of the residence. If workers have damaged this section during general building works it must be replaced with a new piece 100 mm wide just prior to tiling. If this is the case then ensure that there is an overlap between the new and old piece that can be taped in the corners of the doorway.

The tiler then simply lays a full width tile across the HomeGuard including the traditional metal edge strip. Ensuring that a full sized tile is placed at the out edge upon the HomeGuard so that a minimum of half of the tile is being bonded to the concrete slab surface.

Bath Block-out method – (Mis4)

If protecting a void in the slab, follow these steps:

- Cover the cavity with a 1 x 1m piece of HomeGuard TMB and adhere to the concrete
- Place a warning sticker onto the penetration
- Install a standard HomeGuard TMB sheet collar over the penetration (adhere it to the first piece)



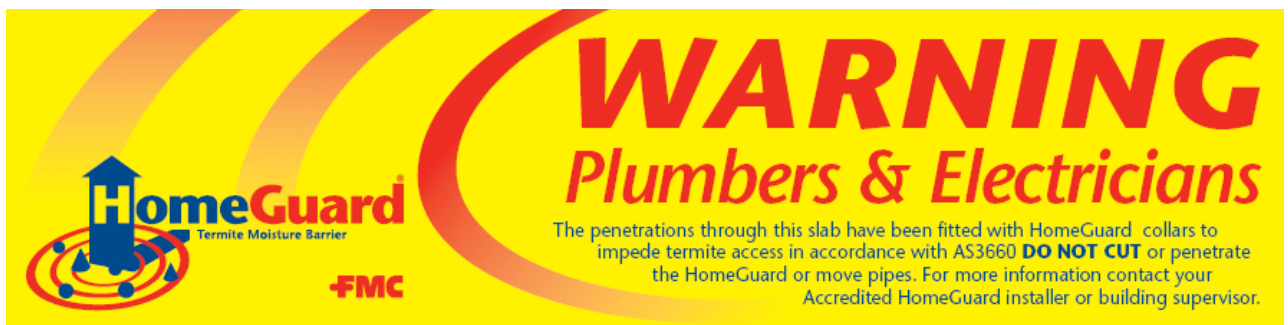
Appendices

(Appendix A)

Accessories:-

HomeGuard - Service penetration warning stickers

Sold in self-adhesive rolls for service penetration installations.



Cloth Tape

Installations should be made using quality cloth duct tape and approved adhesive sprays. The brand of cloth tape is irrelevant as long as its properties include easy peeling 40 mm tape that provides excellent binding qualities.

Installation tools

A list of the most common installation tools will be provided with the Accreditation Training. There are no specialised installation tools that need to be purchased to install HomeGuard. However, a heat seal unit makes installations faster and easier when installing the corners of the perimeter cavity.



(Appendix B)

Supporting Documents

HomeGuard Meter box sticker (plus Kitchen Cupboard – QLD only)

Termite Management System Notice
HomeGuard®

Certificate No:

Completion of Installation – Date: _____

Installation Organisation: _____

Pest manager license number: _____ Telephone: _____

Installed: Complete Barrier System Partial Barrier System
Under-slab Perimeter Cavity HomeGuard Collars


Other (specify): _____

The Australian Standards for Termite Management (AS3660 series) recommends regular, competent inspection of the building at least every twelve months in accordance with AS4349.3, and more often in high-risk areas. This is required to ensure that any system has not been bridged or breached, making the structure liable to attack by subterranean termites.

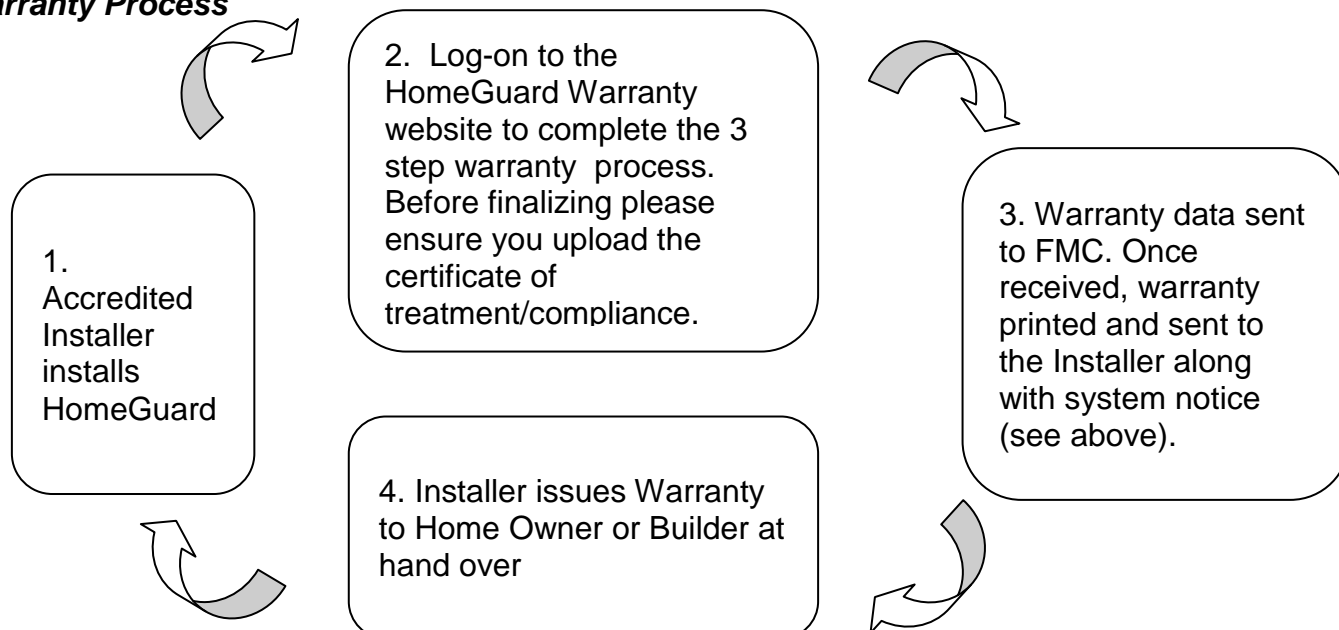
Prior to making any alterations to the building that may affect the HomeGuard Termite Barrier, you should contact the installer to obtain full installation specifications.

Inspection Dates

NOTE: Failure to maintain your Termite Management System may void any warranty or limit remedies.



Warranty Process



HomeGuard Installation Certificate of Compliance



UNIT 26, 8 METROPLEX AVE
MURARRIE QUEENSLAND 4172

Applicator

Name of Company: _____ ABN: _____
 Installer name: _____ PMT Licence number: _____
 HomeGuard Accreditation number: _____ QBSA number (QLD requirement only): _____
 Your Certificate number: _____ Contact Phone no: _____

Building Details

Installation Date: _____
 Installation address: _____ Suburb: _____
 State: _____ Post Code: _____
 Builder: (if applicable) _____ Phone: _____
 Owner: (if applicable) _____ Phone: _____

Installation Type

please tick

Full Under Slab
 Perimeter Cavity
 #** Extension /
 Renovation

HomeGuard Collars
 ** Partial Installation

Installation Codes (as per HomeGuard manual)

<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>

** Installation diagram attached

Preinstallation termite inspection undertaken
 as per AS3660.1 & AS4349.3

Product Details

HomeGuard TMB Sheet	<input type="text"/> m ²	Bar Codes
HomeGuard DPC Sheet	<input type="text"/> l/m	Bar Codes
HomeGuard Blue Sheet	<input type="text"/> l/m	Bar Codes
HomeGuard GT	<input type="text"/> L	Bar Codes
HomeGuard Termiflex	<input type="text"/> Tubes	Batch Number

Number of Collars Installed

HomeGuard Collars - 100mm HomeGuard Collars - 50mm Sheet Collars
 HomeGuard Collars - 80mm HomeGuard Collars - 40mm GT Penetrations

Specify other systems used _____

NOTE: HomeGuard® is not designed, or approved, to be installed as a remedial treatment

Client provided with Warranty Details Warranty Details explained to client

Authorised Signature: _____ Date: _____



Fax to 1800 355 896

Phone Enquiries 1800 066 355



Eflex
TOTAL TERMITE SECURITY

FMC Million Dollar WARRANTY CERTIFICATE

Warranty Contract Number

www.milliondollarwarranty.com.au

Name(s) of Property Owner(s) / Warranty Holder(s):

Address of Protected Structure(s) / Building (Site):

Suburb:

State:

Post Code:

Postal Address of Property Owner / Warranty Holder:

Suburb:

State:

Post Code:

Protected Structure(s):

Eflex Termite Barrier installed by: :

Accredited Operator Number:

Address:

Suburb:

State:

Post Code:

Telephone:

Commencement Date:

Period of Warranty

years

Dated this

day of

Signed for and on behalf of FMC Australasia Pty Ltd:

Name of Signatory:

WARRANTY (Please read the important conditions overleaf)

Limit of warranty amount: \$1,000,000 AUD in the aggregate

What is covered:

Subject to the conditions overleaf, the protected structure/s of the site as detailed above are covered against any direct physical damage to structural and or decorative timbers caused by subterranean termites that occurs subsequent to the warranty commencement date above but prior to the warranty expiry date. This warranty does not include chattels of any nature (including without limitation carpets, floor coverings, antiques, heirlooms, artwork or painting furnishings and fittings); further, any pergolas, timber decking, wiring, outhouses - (unless HomeGuard system is applied as per detailed plan), fences, gates and garden structures are specifically EXCLUDED from this warranty.

* Subject to annual inspections by an accredited HomeGuard Operator (who has a timber pest licence) or an Eflex Accredited Operator and subject to FMC's consent to assignment of the warranty under the Assignment provision overleaf.



www.homeguardptm.com.au



General Conditions applying to the **FMC HomeGuard Million Dollar Warranty**

WARRANTY ACTIVATION:

In the event of a subterranean termite infestation of the Building as a result of the failure of the installed HomeGuard termite barrier which failure is directly caused by the failure of the HomeGuard Products and results in damage by termites being caused to structural and/or decorative timbers of the Protected Structure during the Warranty Period then, subject to these general conditions of Warranty, FMC Australasia Pty Ltd (FMC Australasia) will, up to a maximum amount of \$1,000,000 per Site:

- Procure the elimination of the active subterranean termites within the Protected Structure(s).
- Cause the repair the HomeGuard barrier where practical or otherwise treat for termite control; and / or
- Repair or replace all structural and decorative timbers damaged by Termites.

WARRANTY EXCLUSIONS:

This warranty shall be void and have no effect if any of the following circumstances occur at any time:

- The Property Owner/s fail to carry out any of the owners responsibilities specified in this Warranty.
- The Property Owner/s fails to provide true and correct information to FMC Australasia or participates in misleading, deceptive or fraudulent conduct in connection with this Warranty.
- Termites enter the HomeGuard treated Building through any manner other than by a performance failure of the HomeGuard product.
- The HomeGuard product is installed by a person that is not a HomeGuard Accredited Operator.
- If no active termites are found in the Protected Structure at the time of inspection or reported damage by an HomeGuard Accredited Operator.

WARRANTY LIMITATIONS:

The HomeGuard warranty DOES NOT cover:

- Any incidental damage not directly related to the effects of the Subterranean Termite activity (e.g., wood rot)
- Damage from pests other than the Subterranean Termite including without limitation Drywood or Dampwood Termites (Families: Kalotermitidae and Termopsidae)
- Damage to chattels of any nature (including without limitation carpets, floor coverings, antiques, heirlooms, artwork or painting furnishings and fittings.), any pergolas and timber decking, electrical wiring, outhouses (unless the HomeGuard system is applied as per a detailed plan), fences, gates and garden structures
- Damage caused by any persons other than those authorised by FMC Australasia to investigate the presence of Subterranean Termites
- Repair of any item that does not comply with the Building Code of Australia.
- Any damage the Home Owner or persons other than those authorised by FMC Australasia may cause in investigating for the presence of Subterranean Termites.
- Any remedial treatments or repairs not authorised by FMC Australasia.

RESPONSIBILITIES OF PROPERTY OWNER/S

- During the warranty period the Property Owners must at their own expense arrange for thorough and regular inspection(s) of the property for the presence of termites at intervals recommended by their HomeGuard Accredited Operator, but at intervals not exceeding 12 months.
- Must not make any alterations, renovations or additions to the Building or disturb any garden beds, soils or lawns next to the protected structure(s) until you notify your HomeGuard Accredited Operator who will advise on any works as to their impact (if any) on your warranty.

- You must notify your HomeGuard Accredited Operator if you believe you have disturbed your HomeGuard barrier
- You must immediately notify your HomeGuard Accredited Operator should you find active termites anywhere on the property – do not disturb any found termite activity or use any insecticides on the identified activity.
- You must comply with the Maintenance Program applicable to the HomeGuard Barrier, which shall apply from time to time during the Warranty Period.

CONTINUATION OF YOUR WARRANTY:

Your HomeGuard Million Dollar Warranty will continue to operate during the Warranty Period for so long as you comply with the owner's obligations contained in this Warranty. This is subject to your HomeGuard / Etex Accredited Operator conducting a minimum annual full termite inspection of the property with report at your expense. Your HomeGuard / Etex Accredited Operator will then issue a further 12 month warranty certificate upon satisfaction of any recommendation/s (if any) in compliance with the maintenance program following the inspection being implemented at your expense.

WARRANTY CLAIM DISPUTES:

In the event of any controversy or claim arising out of, or relating to this agreement it will be settled exclusively by arbitration, in the accordance with the rules of the Institute of Arbitrators Australia any judgment from such arbitration shall be binding upon both parties.

DISCLAIMER AND RELEASE

- The limited warranties provided herein are the exclusive warranties given by FMC Australasia and supersede any prior, contrary or additional representations, whether oral or written.
- TO THE EXTENT PERMITTED BY LAW ANY IMPLIED CONDITIONS OR WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE THAT APPLY TO THE HOME GUARD BARRIER OR ANY PART OF IT ARE LIMITED IN DURATION TO THE WARRANTY PERIOD GIVEN IN THIS WARRANTY AND FMC AUSTRALASIA DISCLAIMS AND EXCLUDES THOSE WARRANTIES AFTER THE WARRANTY PERIOD.
- Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation might not apply. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.
- TO THE EXTENT PERMITTED BY LAW, FMC AUSTRALASIA DISCLAIMS AND EXCLUDES ALL OTHER OBLIGATIONS OR LIABILITIES, EXPRESS OR IMPLIED, ARISING BY LAW OR OTHERWISE, WITH RESPECT TO ANY NON-COMFORMANCE OR DEFECT IN THE HOME GUARD BARRIER OR ANY OTHER PRODUCT SUPPLIED BY FMC AUSTRALASIA, INCLUDING BUT NOT LIMITED TO: (A) ANY OBLIGATION, LIABILITY RIGHT, CLAIM OR REMEDY IN TORT, WHETHER OR NOT ARISING FROM THE NEGLIGENCE OF FMC AUSTRALASIA OR ITS SUPPLIERS (WHETHER ACTIVE, PASSIVE OR IMPLIED); AND (B) ANY OBLIGATION, LIABILITY, RIGHT, CLAIM, OR REMEDY FOR LOSS OF OR DAMAGE TO ANY EQUIPMENT. This disclaimer and release shall apply even if the express warranty set forth above fails of its essential purpose.
- TO THE EXTENT PERMITTED BY LAW, FMC AUSTRALASIA AND OR ITS SUPPLIERS SHALL HAVE NO OBLIGATION OR LIABILITY, WHETHER ARISING IN CONTRACT (INCLUDING WARRANTY), TORT (INCLUDING ACTIVE, PASSIVE, OR IMPLIED NEGLIGENCE AND STRICT LIABILITY), OR OTHERWISE, FOR DAMAGE TO THE HOME GUARD BARRIER, PROPERTY DAMAGE, LOSS OF USE, REVENUE OR PROFIT, COST OF CAPITAL, COST OF SUBSTITUTE EQUIPMENT, ADDITIONAL COST INCURRED BY THE WARRANTY HOLDER (BY WAY OF CORRECTION OR OTHERWISE) OR ANY OTHER INCIDENTAL, SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, WHETHER RESULTING FROM THE USE, MISUSE OR FAILURE OF THE HOME GUARD BARRIER EXCEPT AS EXPRESSLY CONTAINED IN THIS WARRANTY. This exclusion applies even if the above warranty fails of its essential purpose and regardless of whether such damages are sought for breach of warranty, breach of contract, negligence, or strict liability in tort or under any other legal theory.

ASSIGNMENT

The Warranty Holder may assign the Warranty Holder's rights under this Warranty to another person provided that and only if: the Warranty Holder sells all of its interest in the Site to such assignee; the Warranty Holder gives written notice of the proposed sale of the Site and assignment of Warranty to FMC; the assignee agrees with FMC to be bound by all terms and conditions of this Warranty; and FMC, acting reasonably, gives its prior written consent to such assignment.

DEFINITIONS:

- Buildings:** The residential or commercial building(s) (as the context requires) where an HomeGuard product has been installed.
- HomeGuard:** Specific range of Termite Solutions for pre construction of building.
- Etex:** A range of pre and post construction termite solutions (products) sold by FMC Australasia which includes HomeGuard;
- FMC HomeGuard Accredited Operator:** Means an operator accredited annually by FMC Australasia Pty Ltd to issue the Initial FMC HomeGuard Million Dollar Warranty Program.
- FMC Etex Accredited Operator:** Means an operator accredited annually by FMC Australasia Pty Ltd authorised to conduct annual termite inspection and renew the annual FMC HomeGuard Million Dollar Warranty Program.
- Property Owner:** Means registered proprietor(s) of the building.
- Termites:** Subterranean Termites (Drywood Family: Kalotermitidae and Dampwood Termites Family: Termopsidae are specifically excluded from the terms of this warranty contract.)

PRIVACY STATEMENT

At all times, FMC Australasia will maintain your personal information in accordance with its then current Privacy Policy accessible at www.fmc-australia.com.au

MAKING A CLAIM:

You should first contact your HomeGuard / Etex Accredited Operator to inspect your problem, they will arrange any remedial action required minimizing the damage occurring. If you require further advice or wish to make a claim, then you must contact FMC Australasia Pty Ltd within 14 days of you contacting your HomeGuard / Etex Accredited Operator.

Address: The Warranty Manager
FMC Australasia Pty Ltd
PO BOX 526
Cannon Hill QLD 4170

Telephone: 1800 066 355

Fax: 1800 355 896

Email: warranty@fmc.com

Web: www.milliondollarwarranty.com.au

Supply FMC Australasia Pty Ltd details of your HomeGuard Warranty, including your warranty contract number and the name of your HomeGuard / Etex Accredited Operator, your full contact details including Phone, Email, Postal Address. FMC Australasia Pty Ltd will contact you within 48 hours of receiving your correspondence.

Repairs and or treatments must be approved by FMC Australasia Pty Ltd in writing. Approved damaged timber repairs by an FMC Australasia Pty Ltd approved repairer will not commence until current reported termite activity is eliminated.



www.milliondollarwarranty.com.au

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Commercial Building Warranty

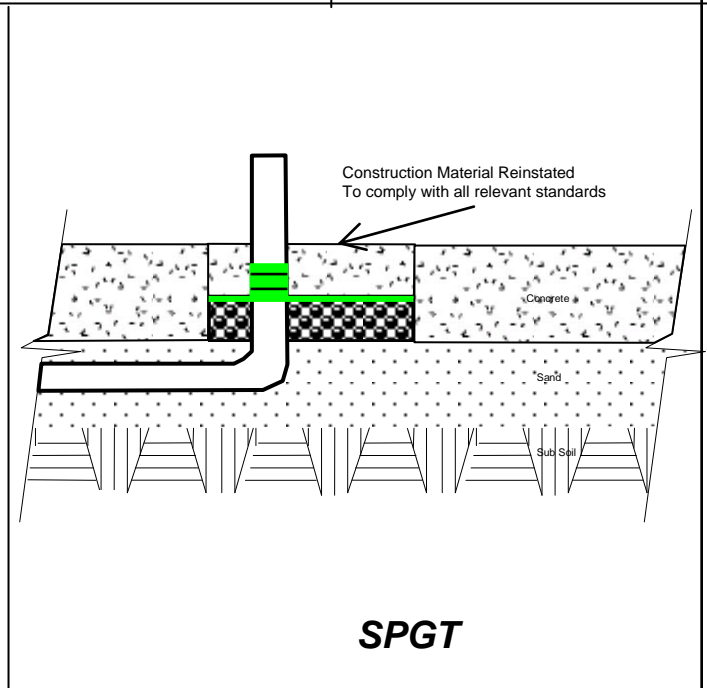
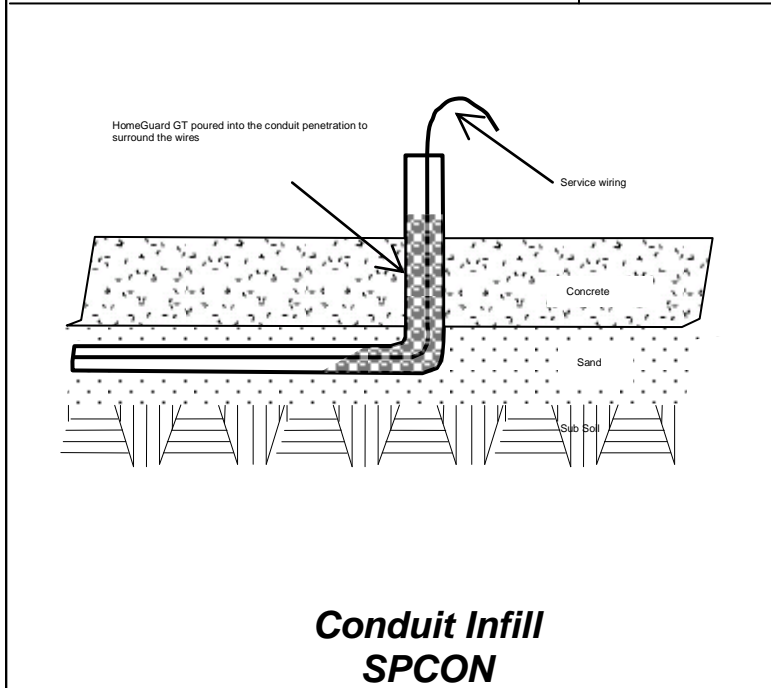
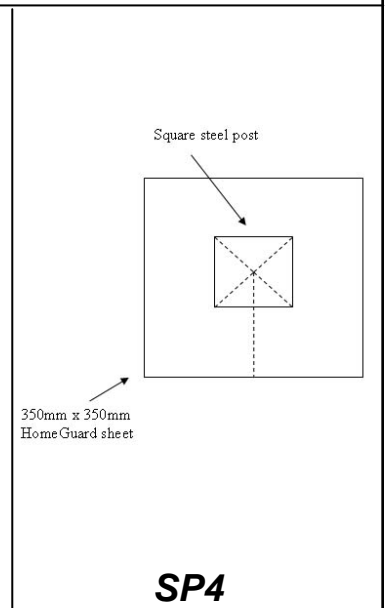
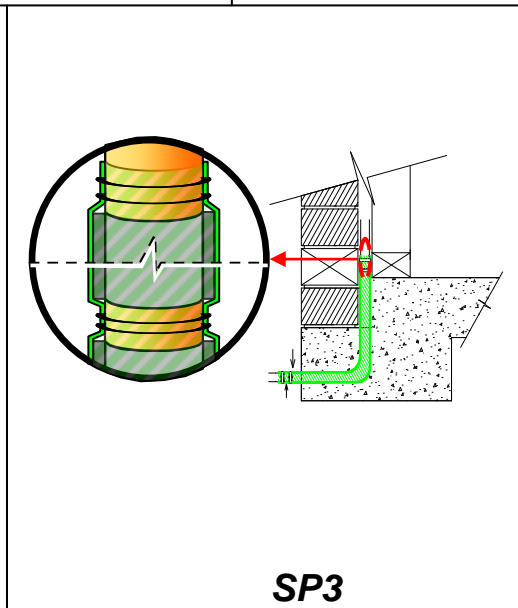
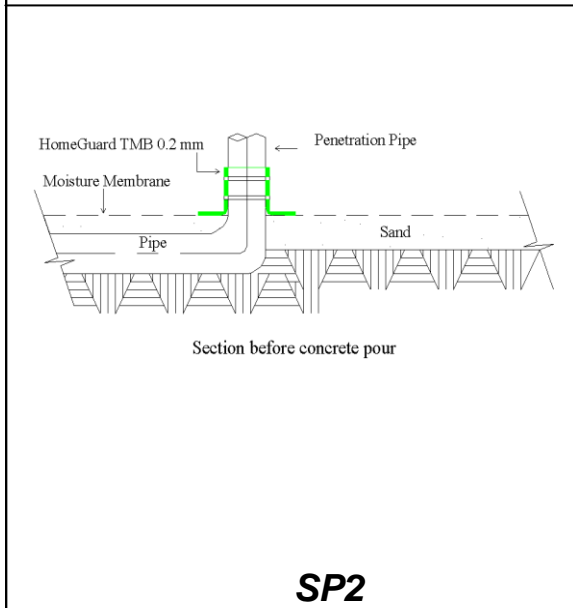
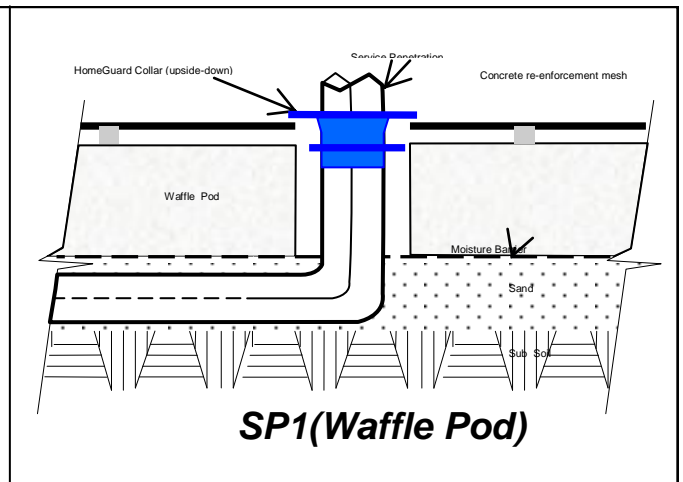
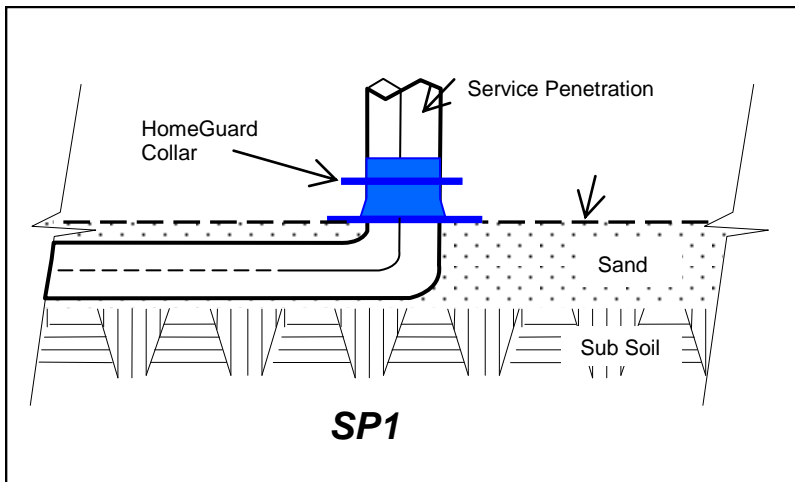
FMC Australasia will warrant commercial building installations, on condition that the HomeGuard product is installed in accordance with the registered label, in conjunction with the installation manual and when installed by a HomeGuard Accredited Installer. There are a number of opportunities in the Commercial construction market, especially for full under slab constructions where the full complement of HomeGuard TMB, HomeGuard DPC, HomeGuard Blue, HomeGuard GT and HomeGuard collars provide a full and cost effective Precision Termite Management System for commercial premises.

Completing a Commercial Warranty installation.

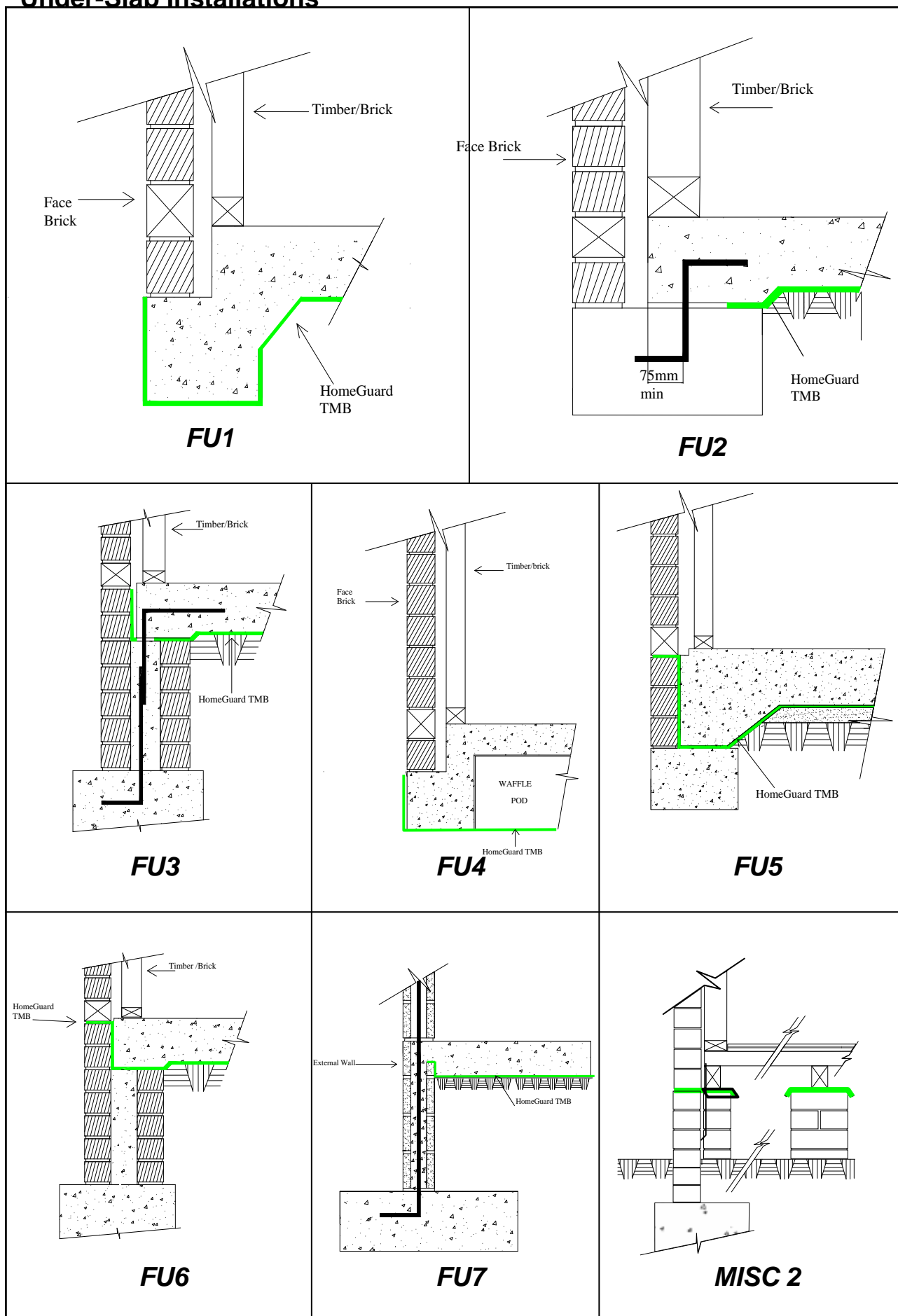
- Accredited HomeGuard installers may offer a Limited and conditional 10 year warranty on commercial premises, if the installation is in line with those recognized as warranty installations in the manual. In all cases a minimum inspection zone of 75mm from the finished ground level to the HomeGuard DPC joint within the external wall is required.
- As with residential home installations, if the installation is not currently recognized by FMC Australasia as a warranty installation in the installation manual, then no FMC Warranty may be offered and alternative warranty schemes may need to be offered through the Installer Company or an associated insurance company.
- Warranty documentation is the same as the current Certificate of installation but in the comments section it needs to be noted that this is a commercial building. Please ensure that you mark this comment when loading into the warranty system as the issue of warranty documentation is different.
- Upload into Warranty system, noting that it is a Commercial Property in the appropriate drop down box.

Installation Diagrams

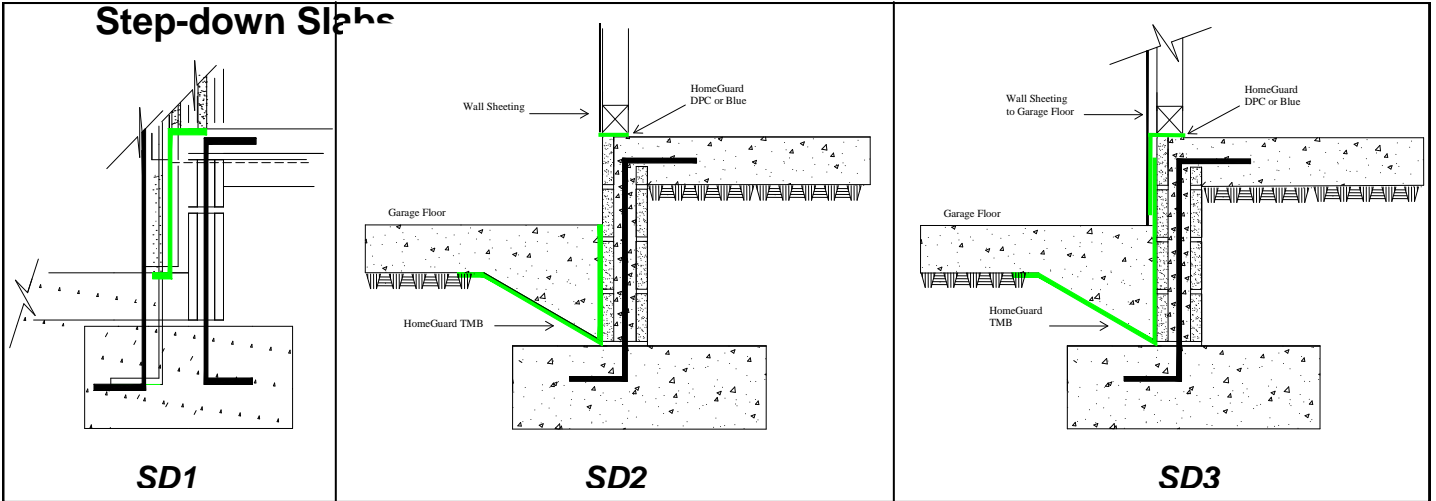
Service Penetrations and Collars



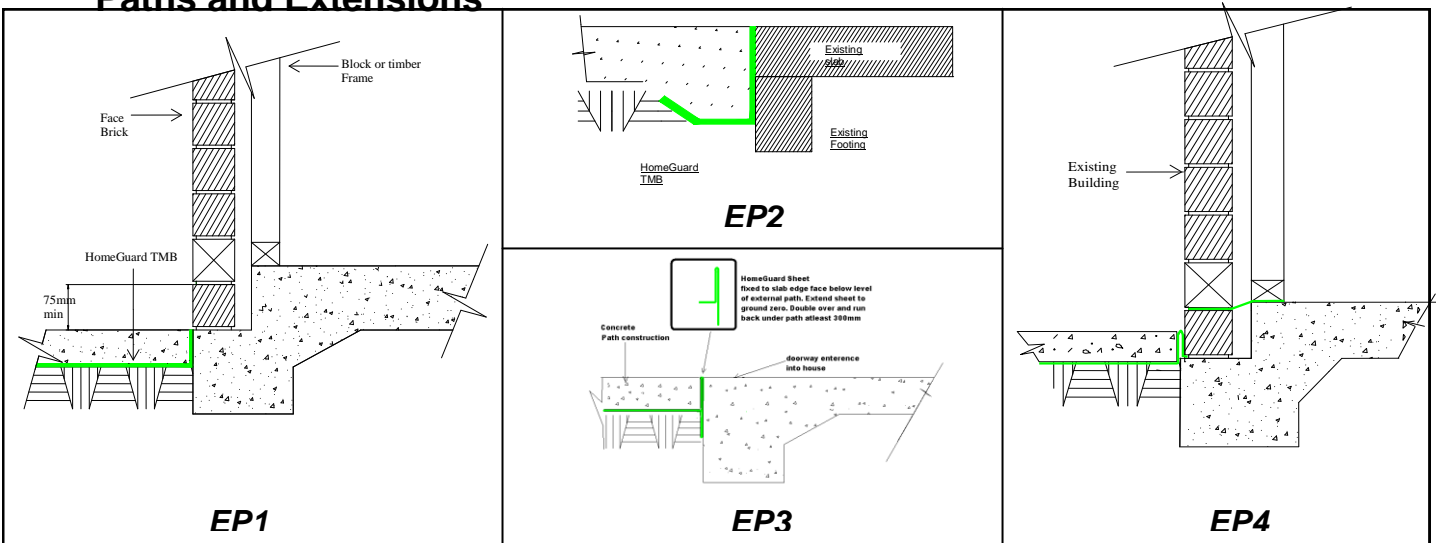
Under-Slab Installations



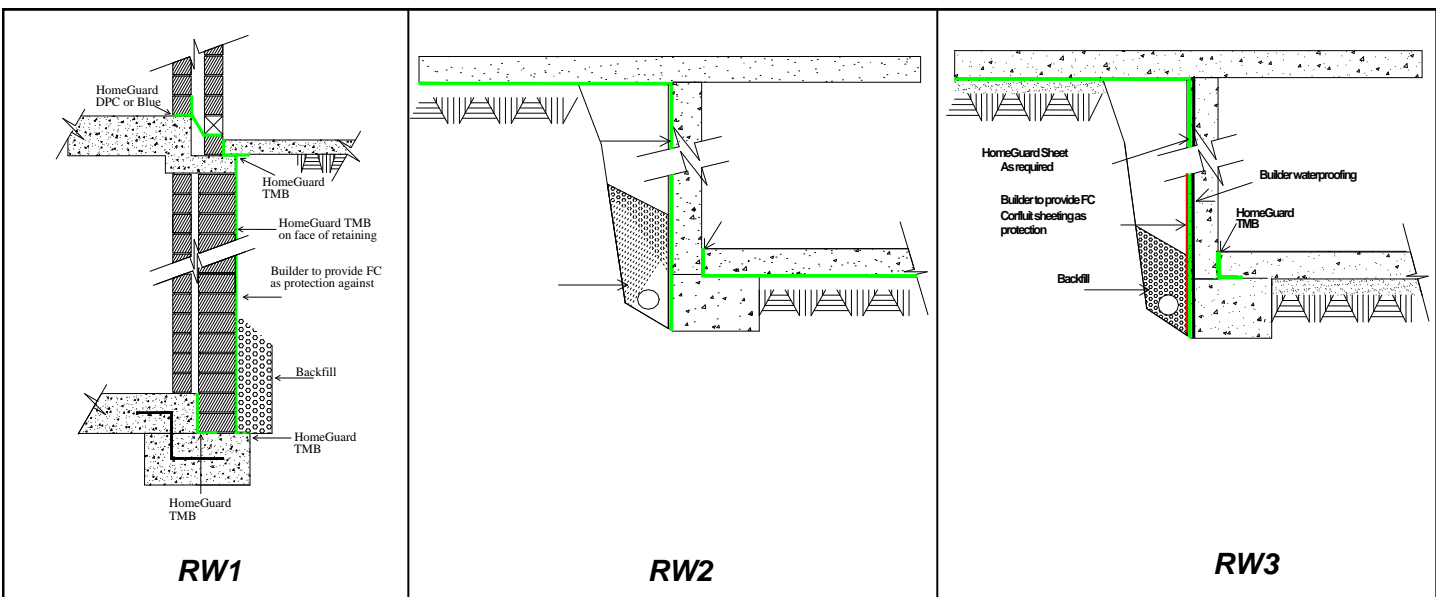
Step-down Slabs



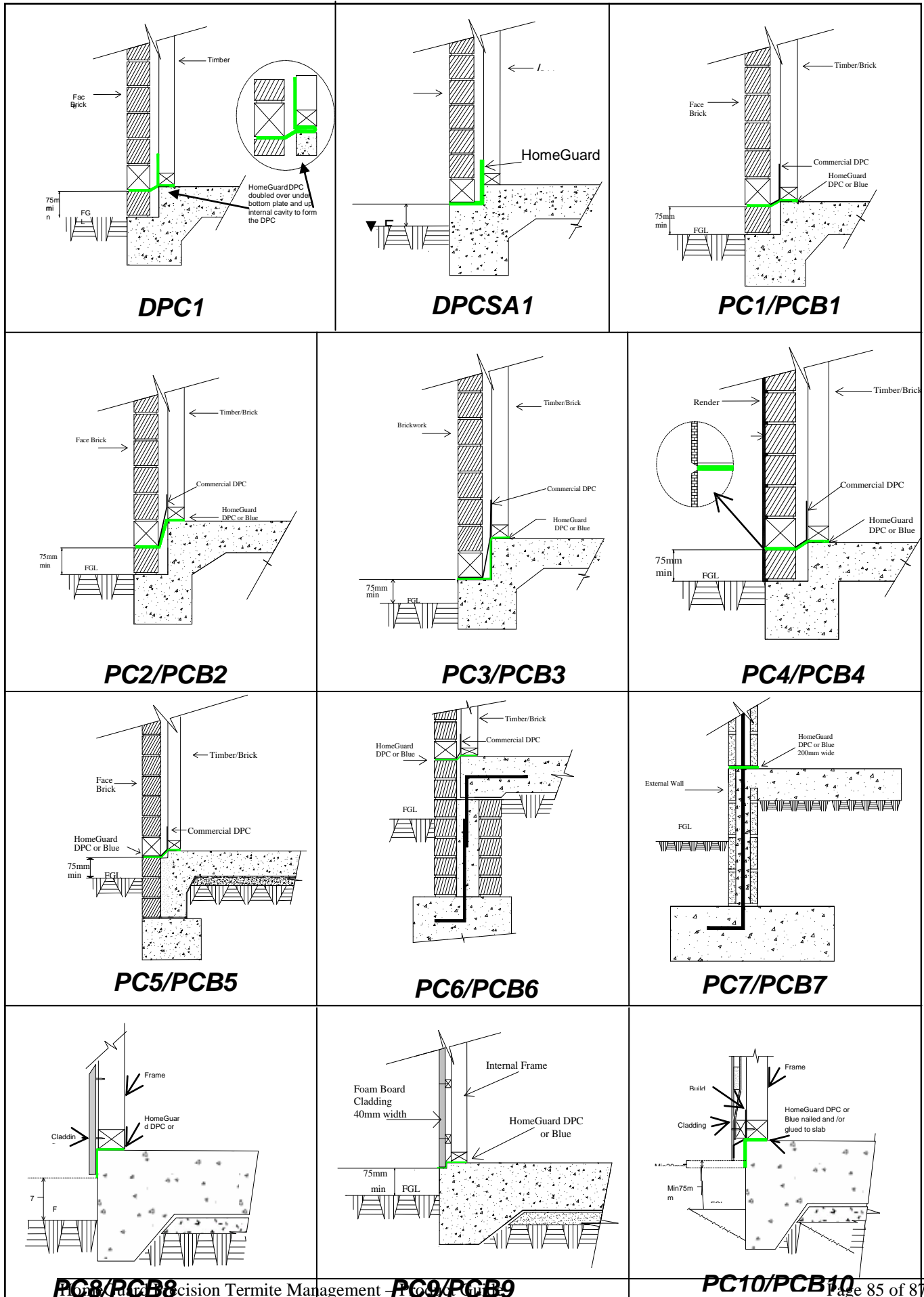
Paths and Extensions



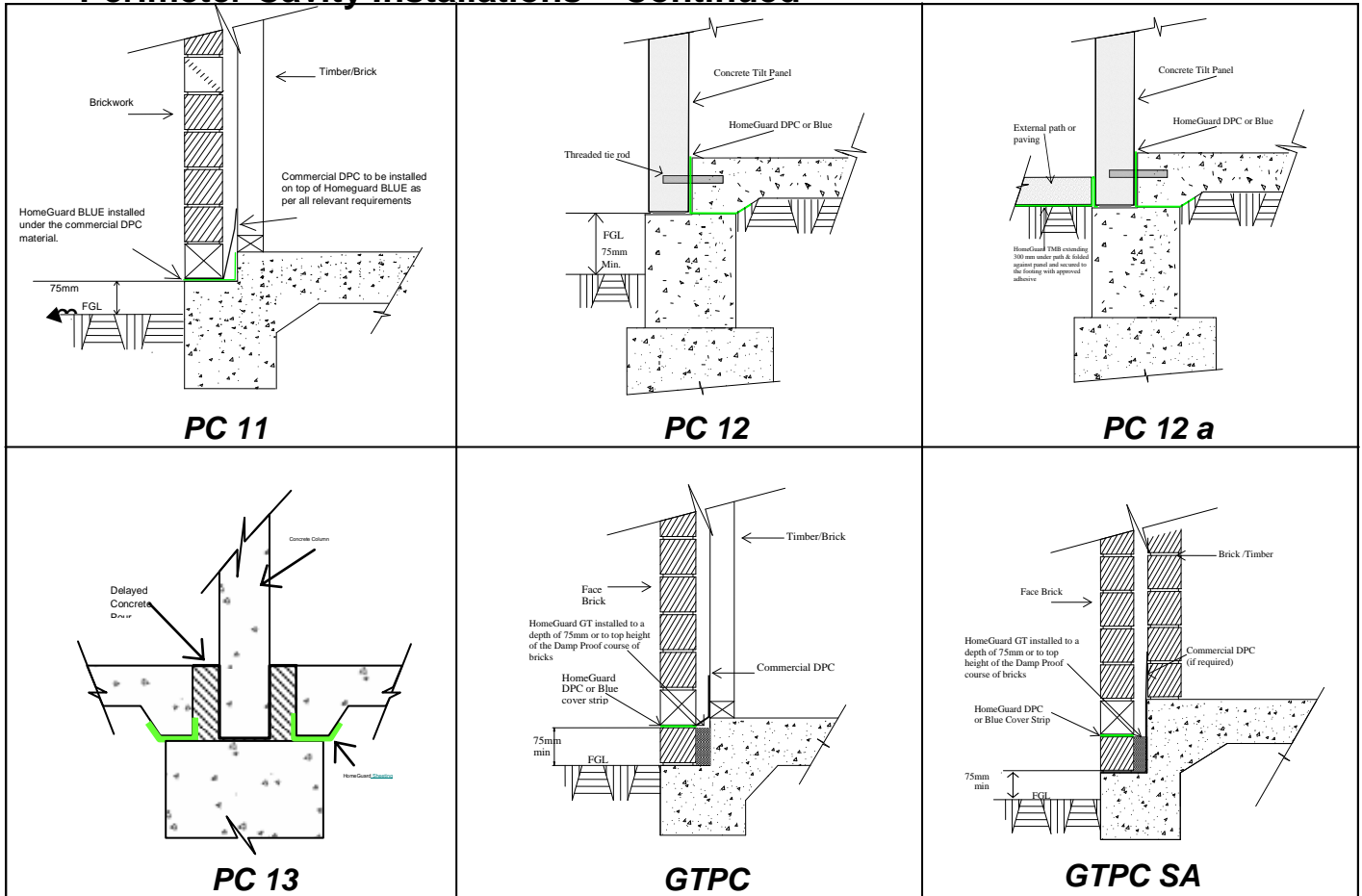
Structural Retaining Walls



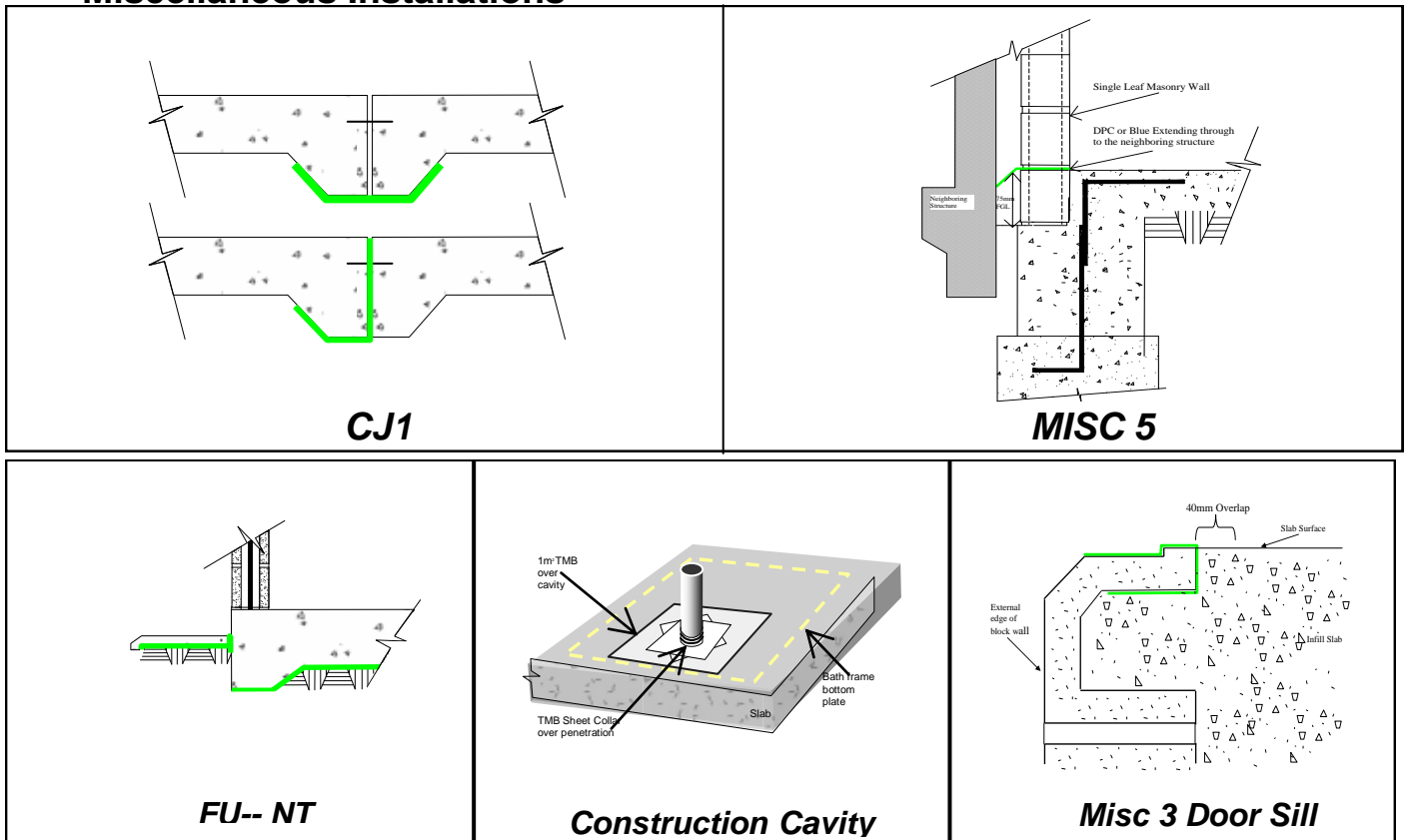
Perimeter Cavity Installations



Perimeter Cavity Installations – Continued



Miscellaneous Installations



Other

Approved Adhesives

- Selleys® “All Clear”
- Selleys® “Liquid Nails”
- 40mm cloth Tape
- Spray Adhesive (3M® “Super 77”, “Super 74 – Foam Adhesive”) or equivalent
- HomeGuard Termiflex Adhesive and sealant

Additional Information

Additional information or amendments to accompany this manual may be found on the HomeGuard website : www.homeguardptm.com.au

For further information on HomeGuard please call your Area Sales Manager or Help Line on 1800 066 355