



Protectant™

Termite Management Systems

Architects, Engineers and Builders
Installation and Specification Guide

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Thank you.

***Protectant*[™] Termite Management System**

Product description

The *Protectant*[™] termite management system will provide “whole of building protection against concealed entry by subterranean termites into the structure” as per the Australian Standards code AS3660.1. The *Protectant*[™] termite management system complies with the requirements of the National Construction Code, BCA and the Queensland and Northern Territory variations related to termite management systems. The *Protectant*[™] termite management system is certified under the “CodeMark System”, CodeMark certification number is CM40358.

Components:

- 1) The *Protectant*[™] termite barrier is made from a polyester fabric (polymer) impregnated with an APVMA registered termiticide. It is installed with all joins adhered with a termiticide impregnated flexible adhesive (ADULETH) and used as a physical barrier to prevent the concealed entry of subterranean termites into the structure. The perimeter barrier is placed to finish at the face of the external brickwork or to the face of the applied finish material and either side fixed to the slab with Protectant Pest Management approved adhesives or attached under the bottom plate of the structure framing.

The *Protectant*[™] termite barrier is installed **not less than 75mm** above finished ground level or concrete or similar materials to create a 75mm inspection zone as required to comply with AS3660.1. **Where it is not possible to achieve a minimum inspection zone of 75mm, a secondary barrier must be installed.**

The *Protectant*[™] termite barrier may also be cast into a concrete slab and or slab joins prior to pouring or retrofitted to treat slab joints and or repairs.

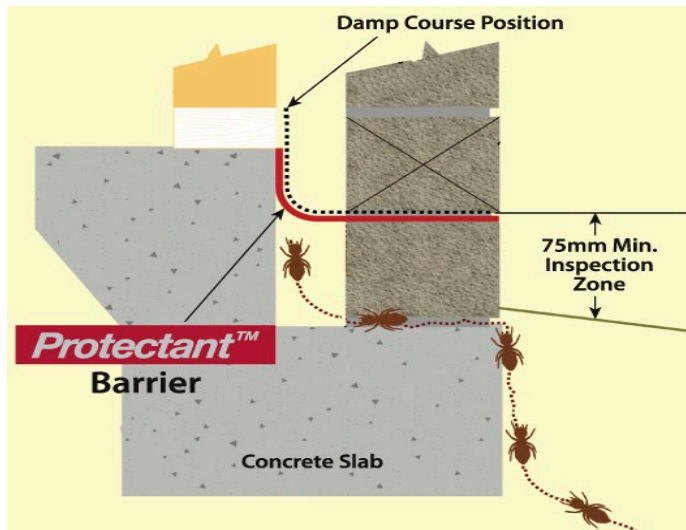
- 2) Slab penetration collars are made from PVC with a Shore D hardness of greater than 80. The slab penetration collars or *Protectant*[™] termite barrier can both be used to treat slab penetrations. Either are placed at a mid slab depth and below the finished slab height. The slab penetration collars and or *Protectant*[™] Termite Barrier System may be fitted prior to concrete pour or retrofitted.
- 3) ADULETH is a flexible adhesive impregnated with the same APVMA registered termiticide used in the *Protectant*[™] termite management system.

Please be aware it is a requirement of the Australian Standards 3660.2-2017 Section 3.3 that all Termite Management Systems have a regular inspection undertaken at least annually.

If you have any further queries regarding the *Protectant*[™] termite management system please do not hesitate in contacting our office.

***Protectant™* Termite Barrier**

- Constructed from durable polyester fabric (polymer) impregnated with an APVMA registered termiticide
- Deters concealed Subterranean Termite entry forcing Subterranean Termites to be exposed for detection during inspection
- Fully bonded into place during construction
- 15 year warranty on product and installation (*Conditions apply)
- Manufactured in a range of sizes from 75mm to 1050mm to suit all construction requirements



Protectant™ Penetrations

- Constructed from PVC with a Shore D hardness of greater than 80
- Manufactured in a range of sizes from 40mm to 100mm.
- Friction grip allows for pipe movement without compromising integrity.
- Flexibility for all construction methods

Pre-pour Slab Penetration Installations



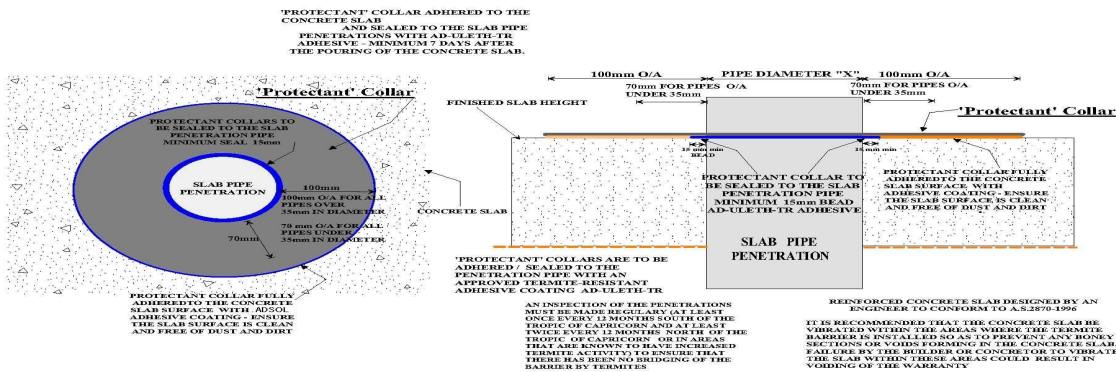
Post pour (Retrofit) Penetration Installations

Post pour Penetration Installations are not the preferred option, however it may be required after the slab has been poured or in the case of a renovation to an existing building. The *Protectant™* termite management system can be “Retrofitted” to form an effective slab penetration installation using the *Protectant™* termite barrier and ADULETH adhesive.

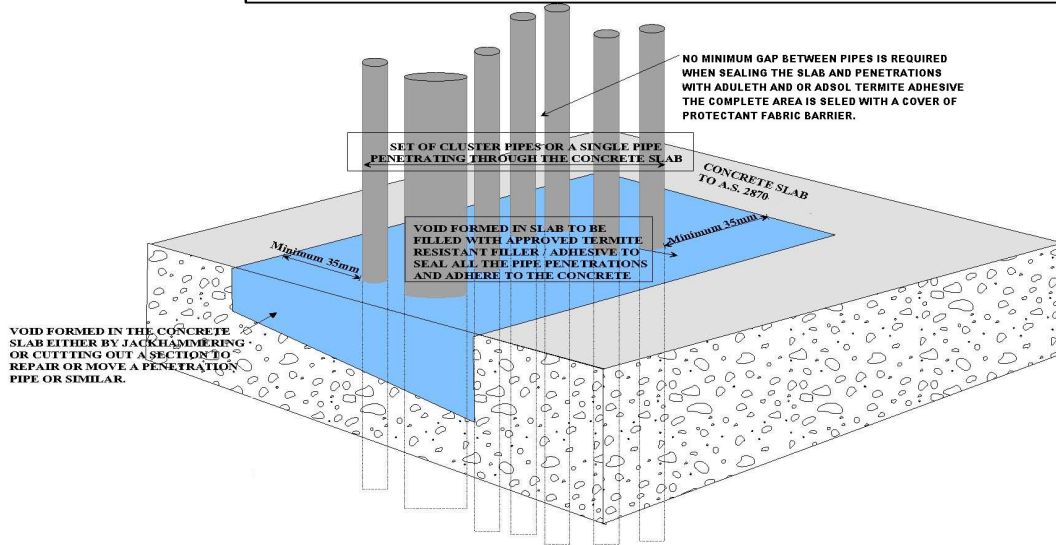
Where abelflex foam is wrapped around the pipe at top of slab level > 15mm shall be removed and this area filled with ADULETH adhesive before fitting the *Protectant™* termite management system.

PROTECTANT PIPE COLLARS TYPICAL PIPE PENETRATION DETAIL RETRO FIT COLLARS

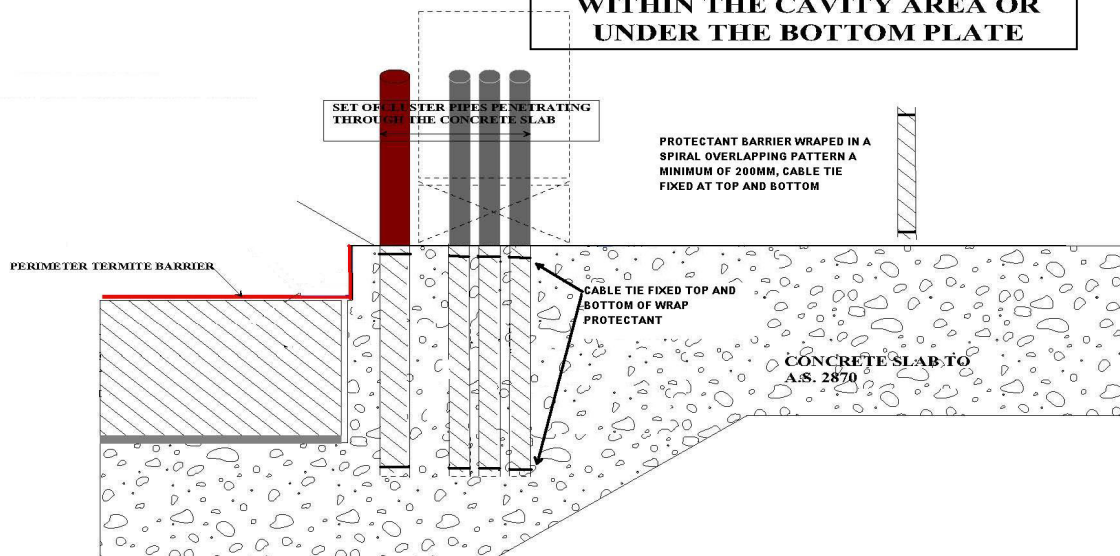
“PROTECTANT” is a Polymer based fabric impregnated with a termite resistant substance



REPAIRS TO SLAB VOIDS SINGLE OR CLUSTER PIPES FILLING VOIDS BROKEN/BONEY SLAB EDGES / MOVED PIPES



CLUSTER PIPES PENETRATION THROUGH THE EDGE OF THE SLAB WITHIN THE CAVITY AREA OR UNDER THE BOTTOM PLATE



Perimeter Installation Preparation

No *Protectant*™ termite management system installation is to be commenced without first inspecting the slab edge surface to be attached to for problems such as drummy areas caused by frame anchor bolts or nails. These need to be repaired or isolated from the perimeter management system.

All contaminants and foreign matter should be removed from the slab edge surface to be attached to as this will reduce the bonding ability of the adhesive. This is best achieved using a brick bolster and wire brush.

The performance of the adhesives and therefore the entire barrier system can be affected by poor preparation!

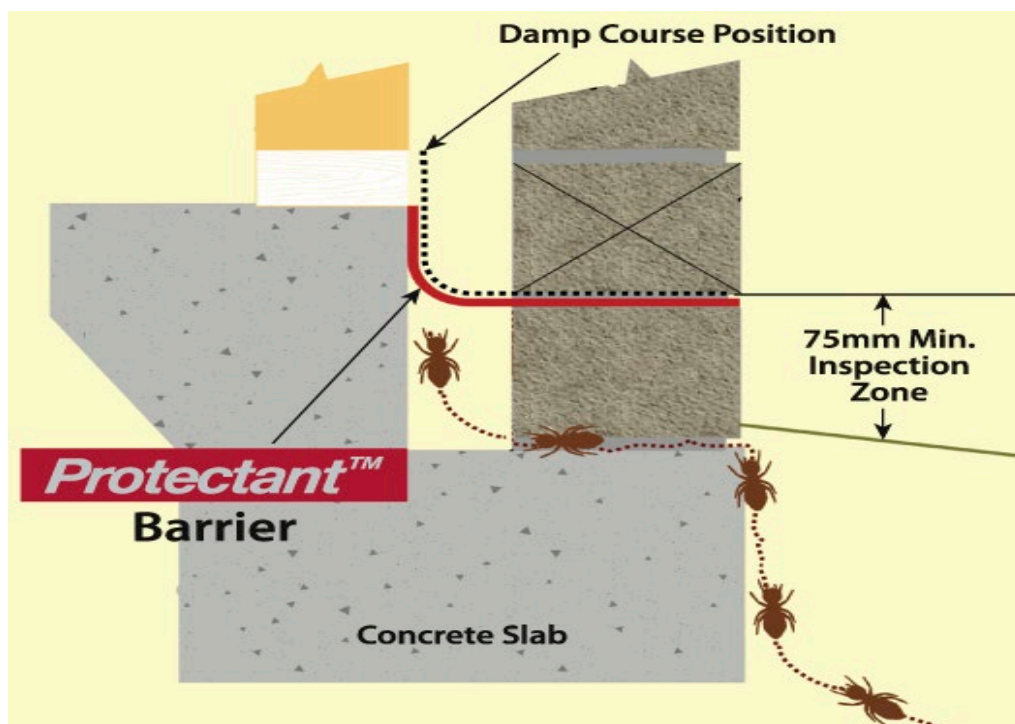
Please note: The installation detail drawings may show the *Protectant*™ Termite Barrier attaching to the Concrete slab below the external frame bottom plate either on the vertical face or horizontal surface or both. Regardless of which is drawn both attachment point options are viable.

Side Fix Cavity Installations

The *Protectant*™ termite management system is installed by first applying a bead of adhesive to the top of the brick to secure the *Protectant*™ termite barrier and allow for grooming to the slab.

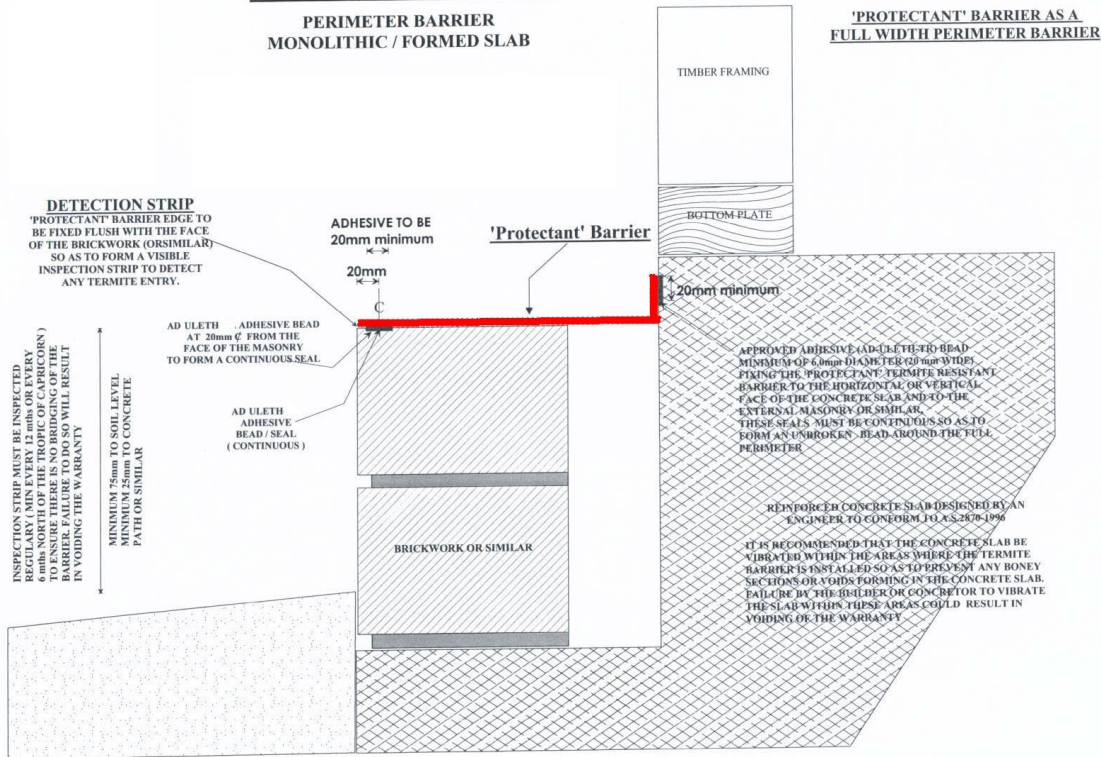
A bead of ADULETH is applied under the *Protectant*™ termite barrier to ensure no termite access can be achieved under the barrier.

At entry doors or windowsills three beads of adhesive are applied to ensure the stability of tiles or sill bricks when they are adhered to The *Protectant*™ termite management system.



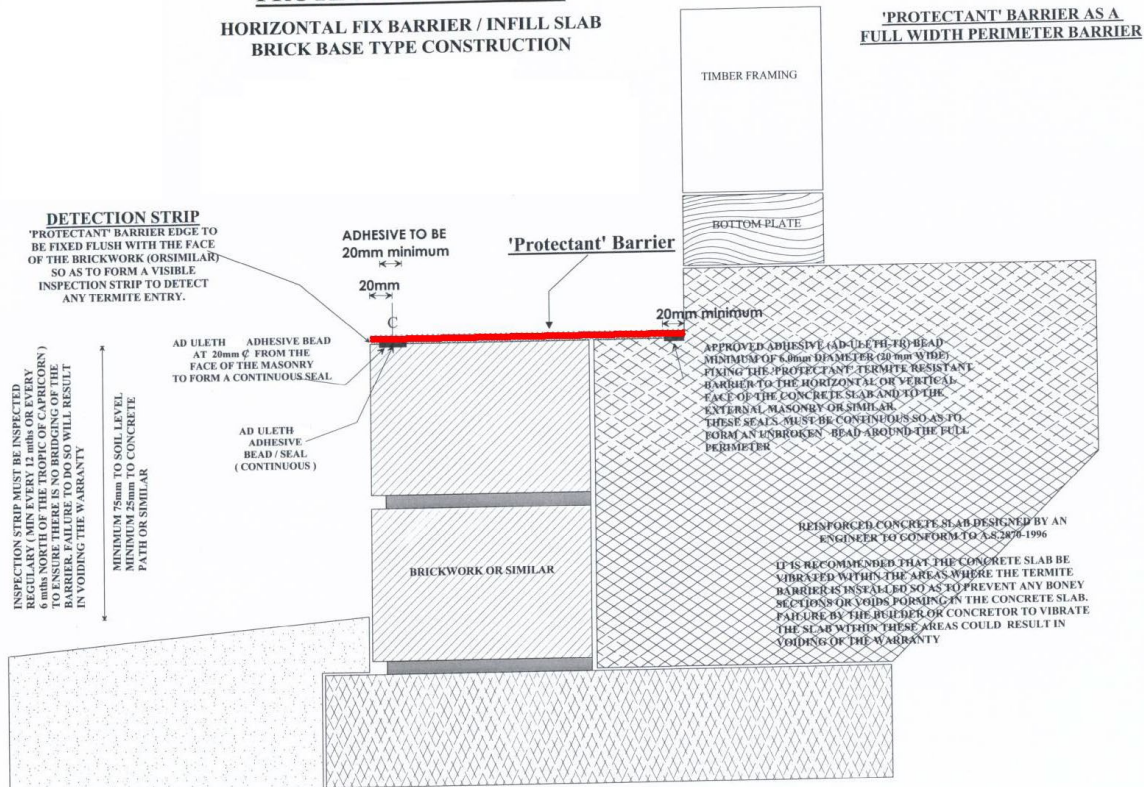
PROTECTANT BARRIER

PERIMETER BARRIER MONOLITHIC / FORMED SLAB



PROTECTANT BARRIER

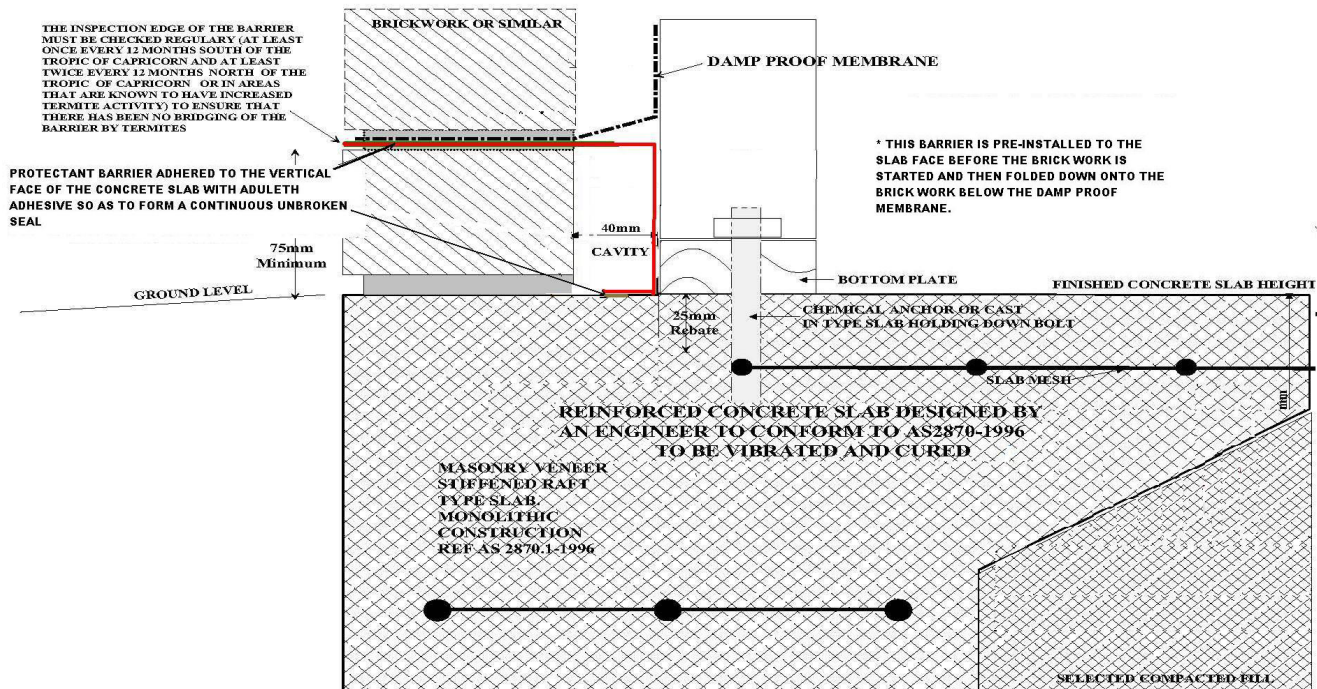
HORIZONTAL FIX BARRIER / INFILL SLAB BRICK BASE TYPE CONSTRUCTION



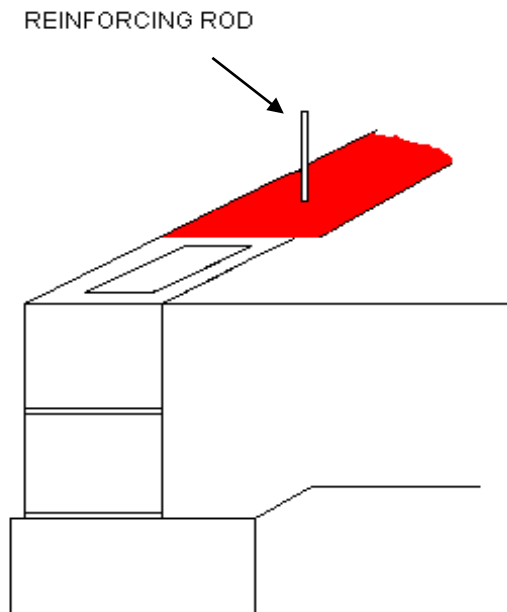
THE INSPECTION EDGE OF THE BARRIER MUST BE CHECKED REGULARLY (MIN EVERY 12 MONTHS SC TROPIC OF CAPRICORN) AND TWICE EVERY 12 MONTHS SC TROPIC OF CAPRICORN) ON THAT ARE KNOWN TO HAVE TERMITE ACTIVITY) TO ENSURE THERE HAS BEEN NO BRIDGING OF THE BARRIER BY TERMITES

PROTECTANT BARRIER ADHERED TO THE FACE OF THE CONCRETE SLAB WITH ADHESIVE SO AS TO FORM A CONTINUOUS SEAL

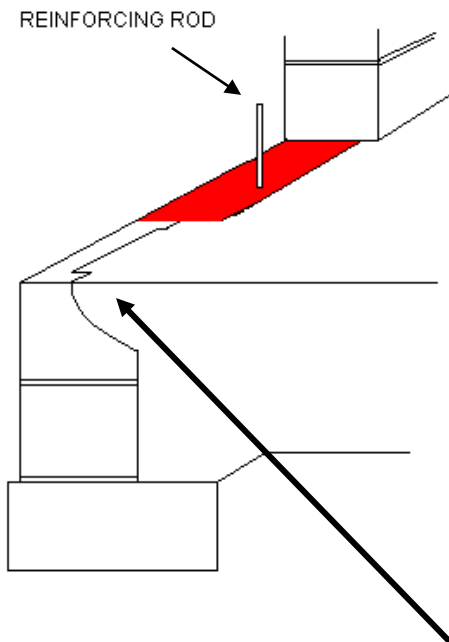
GROUND LEVEL



Masonry Block Installations



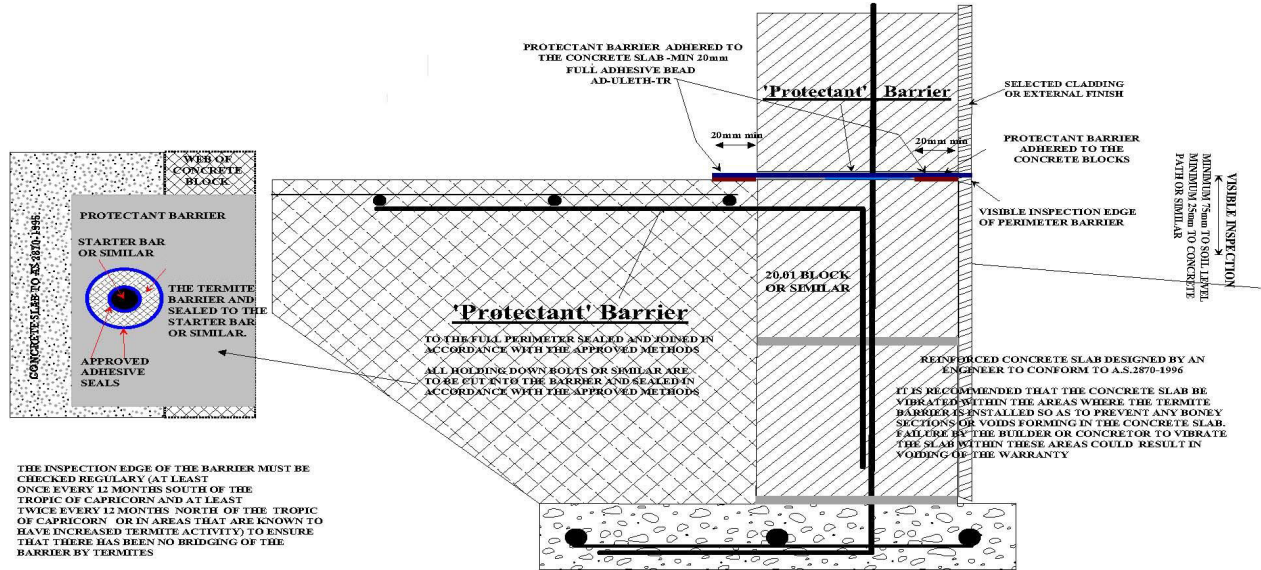
The *Protectant*™ termite barrier is applied from the outside edge of the blocks to a minimum of 50mm beyond the edge of the slab using ADULETH. ADULETH may be used on top of the block work if porosity presents a problem. Ensure ADULETH is applied around each reinforcing rod.



Removal of part of each block web allows for the installation to remain hidden when exposed concrete is to be used, e.g. garage floor or polished concrete.

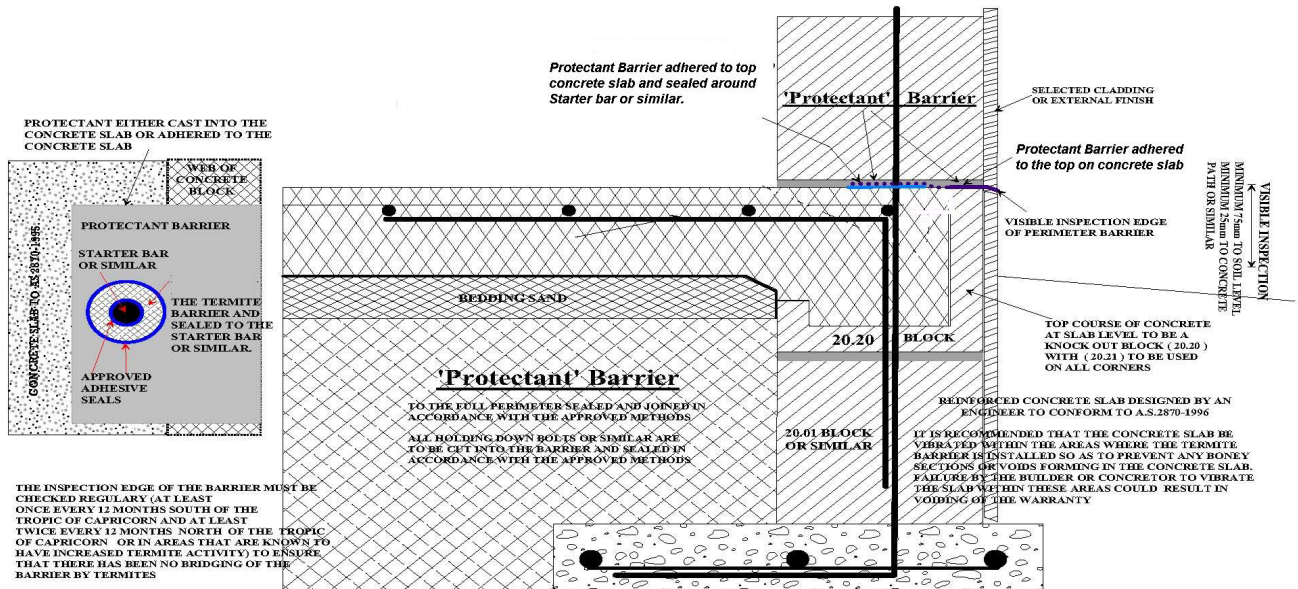
"PROTECTANT" is a Polymer based fabric impregnated with a termite resistant substance

CONCRETE BLOCK CONSTRUCTION INFILL OR FORMED SLAB



"PROTECTANT" is a Polymer based fabric impregnated with a termite resistant substance

CONCRETE BLOCK CONSTRUCTION INFILL OR FORMED SLAB

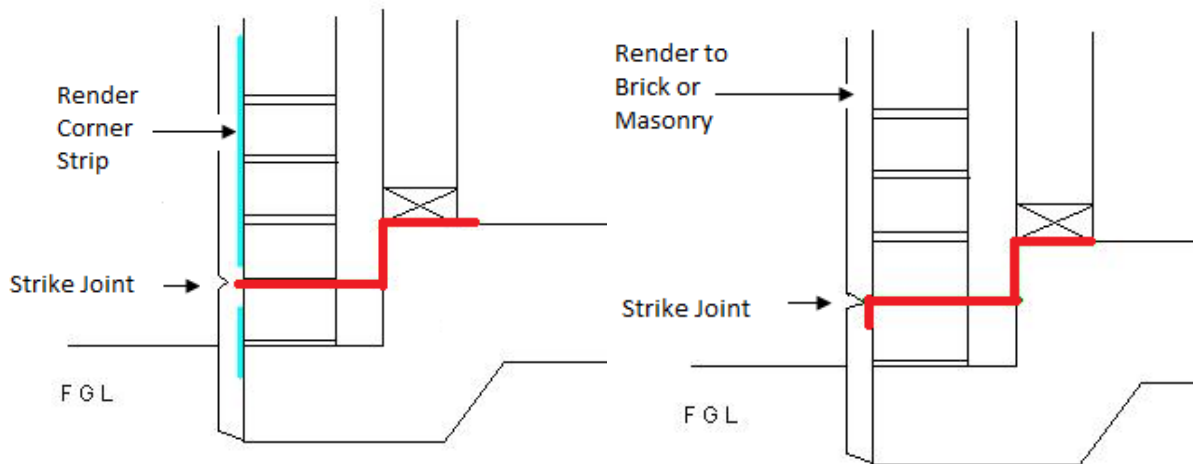


Rendered Brick / Masonry Installations

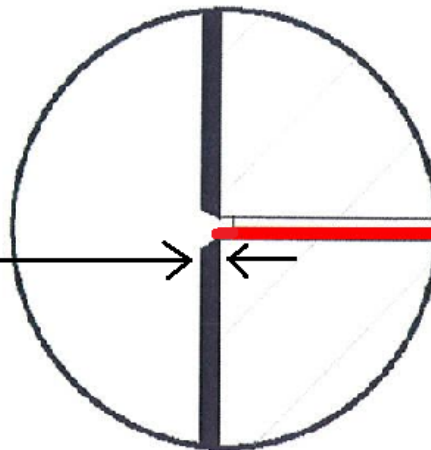
The *Protectant*™ Termite Barrier is installed beyond the brick face to allow for inclusion in the render product to be used. The render is not to cover the barrier by more than 1.5mm.

In cases where a thin coating is to be used, i.e. bagging or a skim coat, the barrier is to finish flush with the brick or masonry face.

When a PVC render corner strip is used by the builder, it needs to terminate 20 mm either side of the termite barrier.



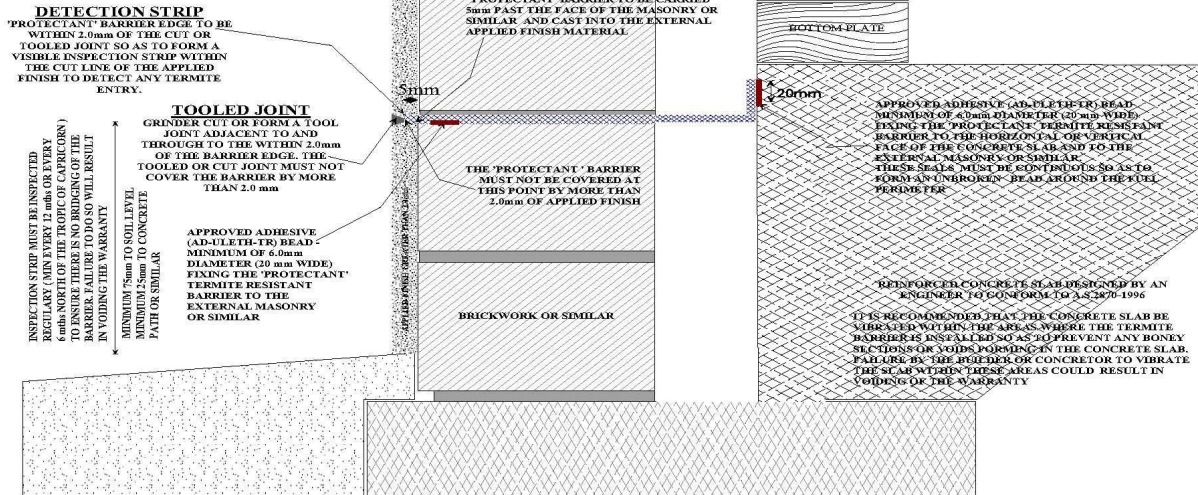
Strike Joints are required
when the render thickness
exceeds 1.5mm



PROTECTANT BARRIER

TYPICAL APPLICATION FOR RENDERED OR APPLIED FINISHES GREATER THAN 2.0 mm BRICK BASE / INFILL SLAB - MONOLITHIC SLABS

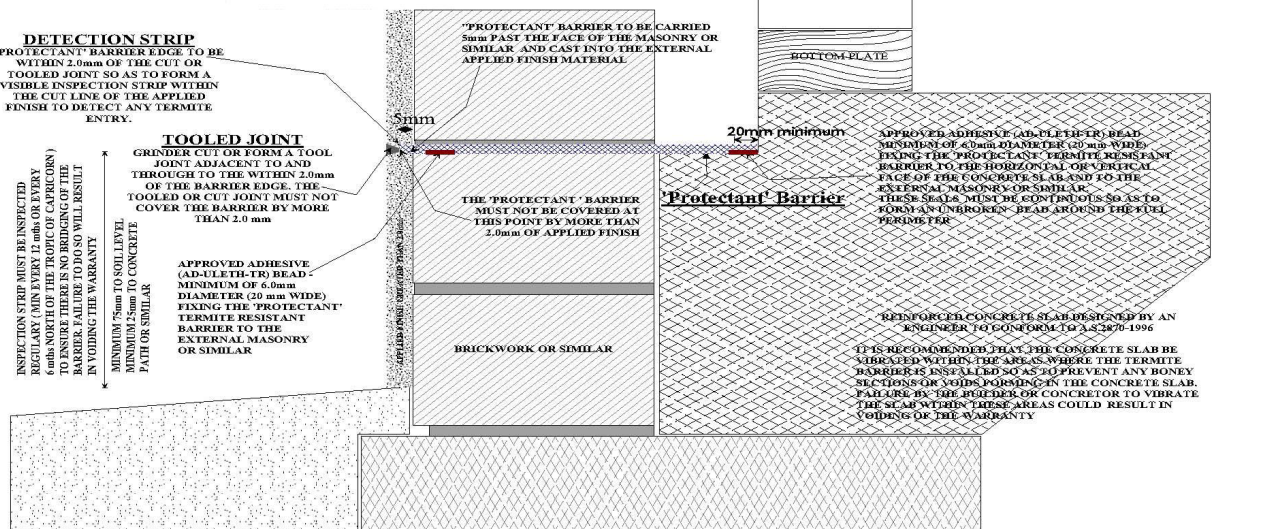
"PROTECTANT" is a Polymer based fabric impregnated with a termite resistant substance



PROTECTANT BARRIER

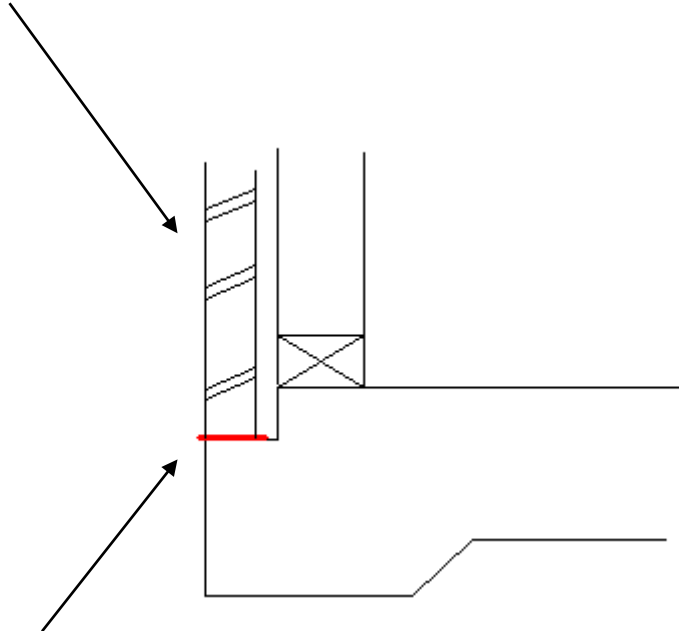
TYPICAL APPLICATION FOR RENDERED OR APPLIED FINISHES GREATER THAN 2.0 mm BRICK BASE / INFILL SLAB - MONOLITHIC SLABS

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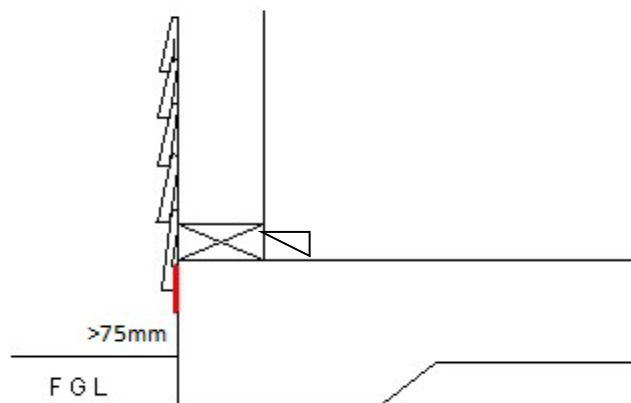
Alternative / Lightweight Cladding Systems Installations

HEBEL Panel or Similar

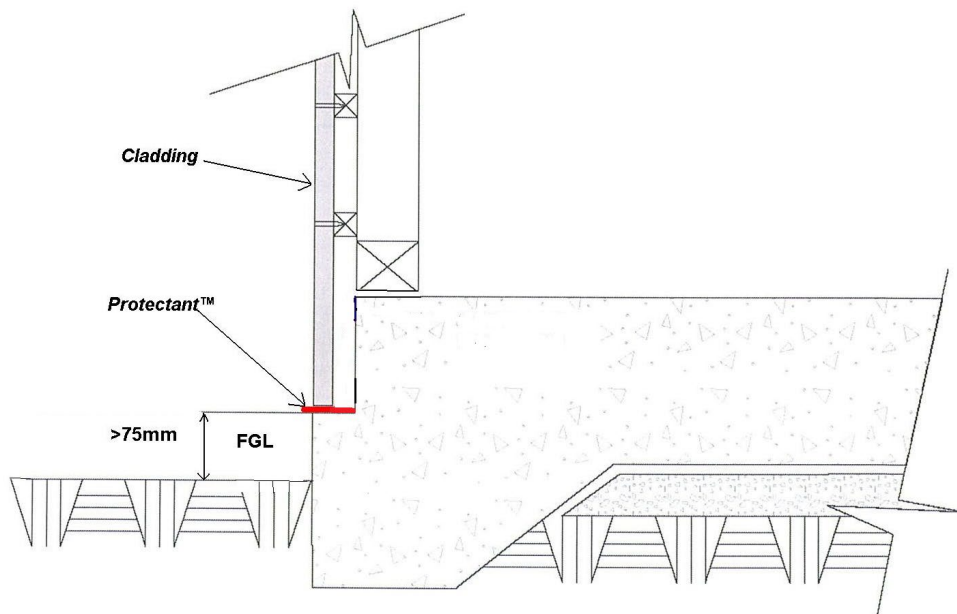
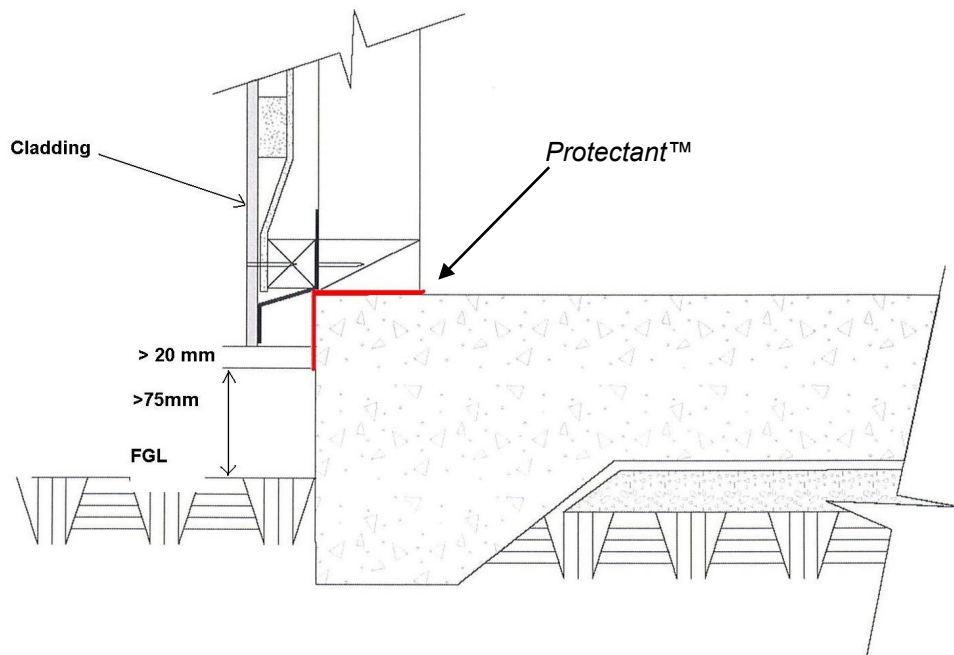


Protectant™ TERMITE BARRIER INSTALLED TO SUIT
PANEL FINISH e.g. RENDER/BAGGING/PAINT

Timber Cladding, Blueboard or Similar attached direct to frame



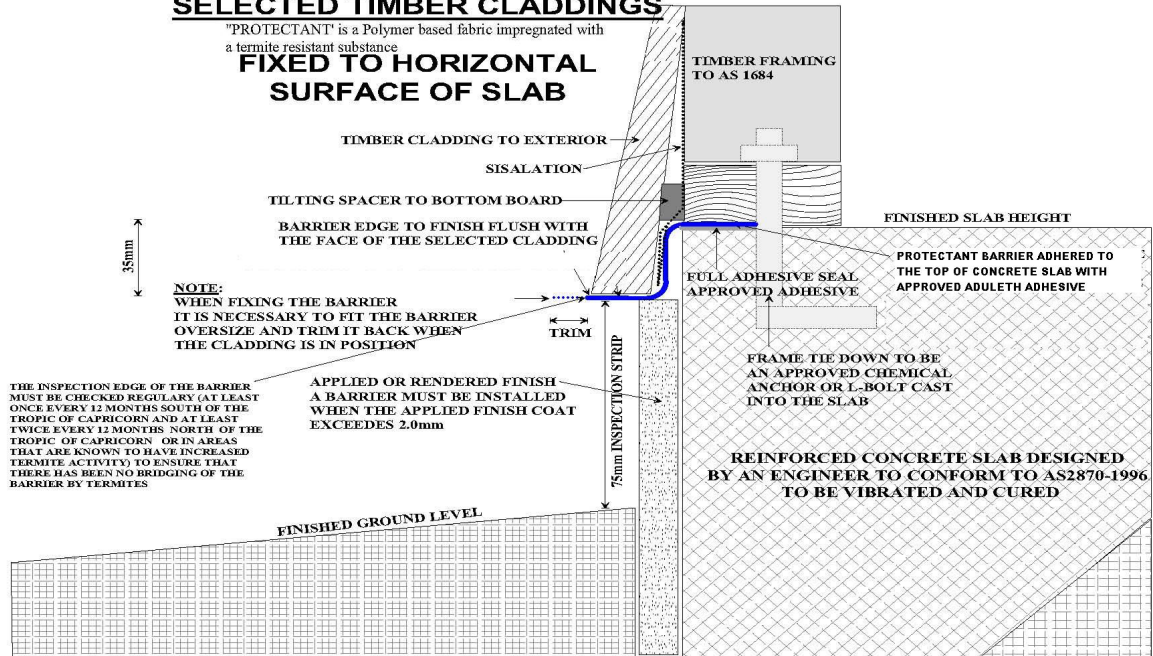
Timber Cladding, Blueboard or Similar attached to battens



SELECTED TIMBER CLADDINGS

"PROTECTANT" is a Polymer based fabric impregnated with a termite resistant substance

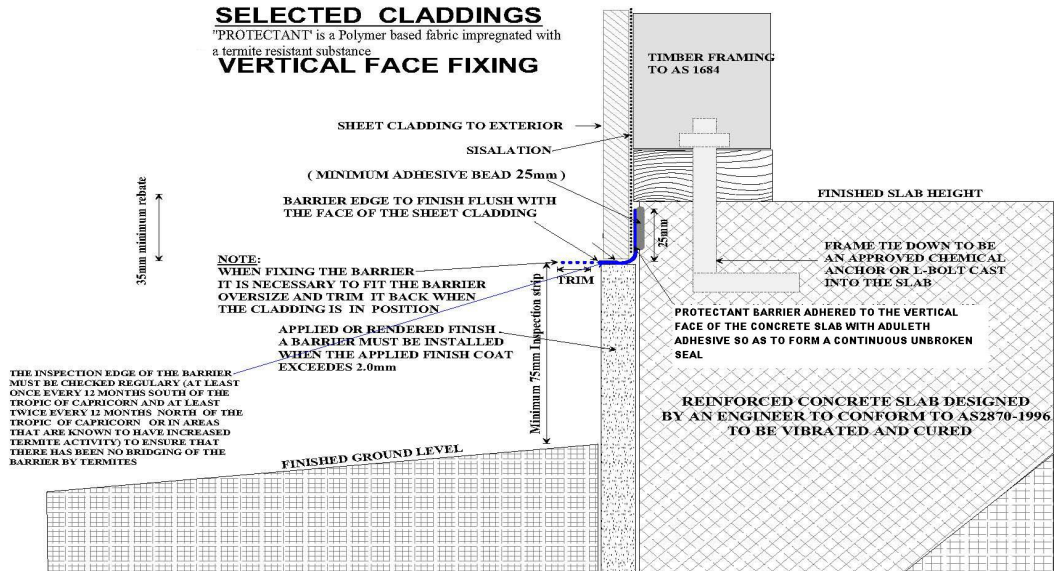
FIXED TO HORIZONTAL SURFACE OF SLAB



SELECTED CLADDINGS

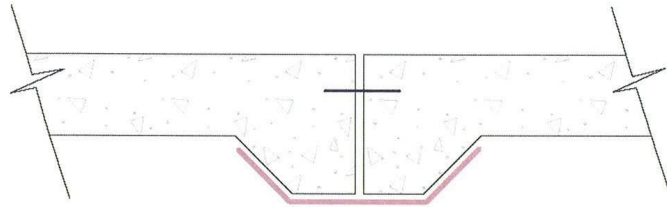
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VERTICAL FACE FIXING

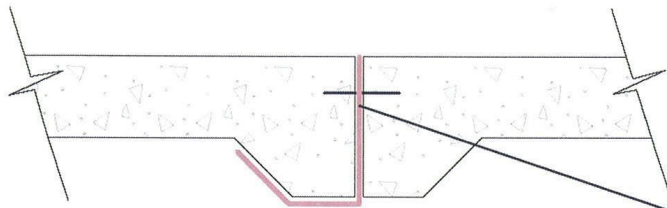


Critical Construction Joint Installations

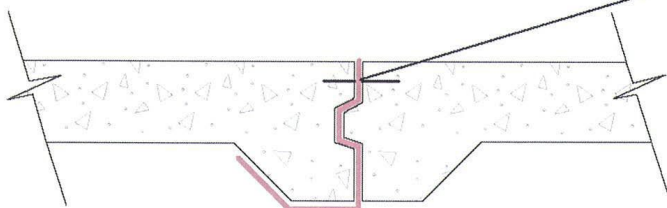
- Install a minimum 200mm wide strip of *Protectant*™ termite barrier immediately under or in the construction joint, adhering in place with ADULETH adhesive to concrete or Spray adhesive to the vapour barrier membrane.
- Ensure that all joins are protected using the folded *Protectant*™ Termite Barrier.



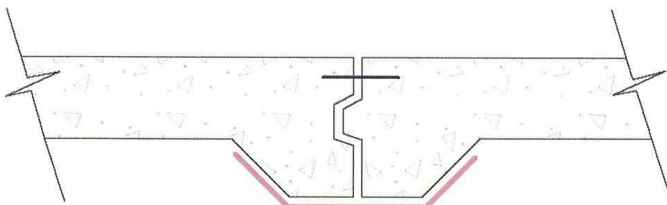
Dowel Joint single stage concrete pour



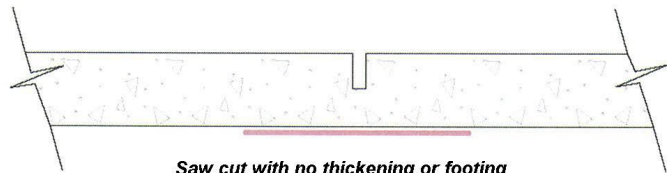
Dowel Joint two stage concrete pour



Key Joint two stage pour



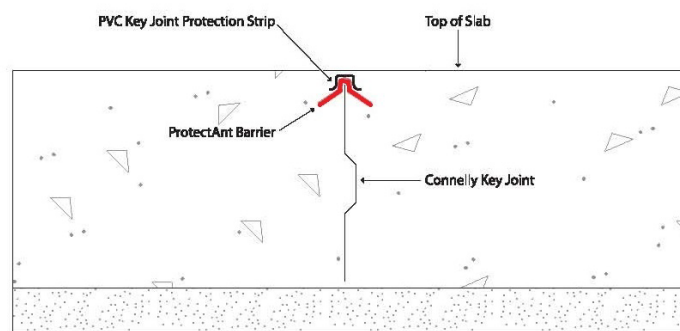
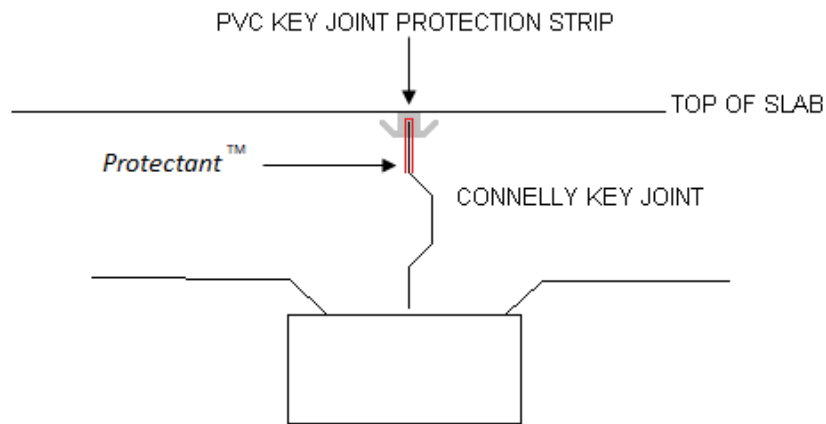
Key Joint single stage concrete pour with thickening/ footing below key or connelly joint



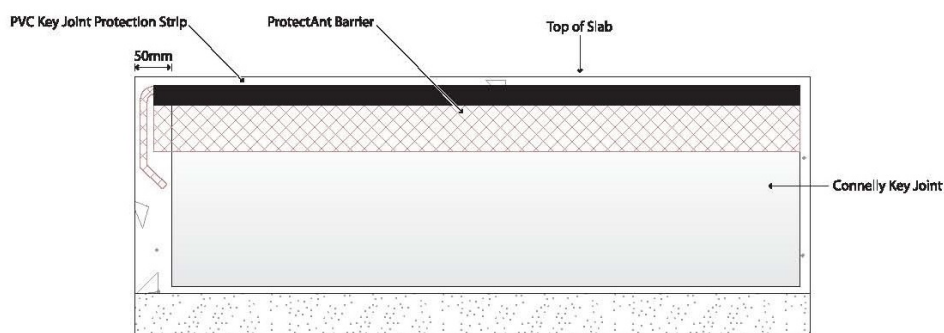
Saw cut with no thickening or footing

Connelly Key Joint Installations

Control joint protection is fitted to the top edge of the Connelly key section, using a sheet of *Protectant*TM Termite Barrier.



Front View



Side View

The Finish will have the barrier encapsulated in the slab and the rebate on the slab edge face.

Post Concrete Pour Construction & Connelly Joint Installations

Post Concrete Pour Construction & Connelly joints are not the preferred option, however, protection can be applied to the top of the slab provided no interference is caused by either floor covering or wet seal applications. Some floor coverings (i.e. Vinyl) may require grinding the concrete surface to create a recess prior to the application of the *Protectant*[™] Termite Management System.

Measure 50mm either side of the Construction/Connelly slab joint and apply ADULETH adhesive to these lines and 10mm from either side of the Construction/Connelly joint i.e. apply 4 beads of ADULETH to the slab. Apply *Protectant*[™] Termite Barrier PRO110 to the joint. Adhere with sufficient downward pressure to spread ADULETH to ensure there are no voids. Floor leveller can then be applied if required prior to floor coverings.

Concrete Slab Repair Installations

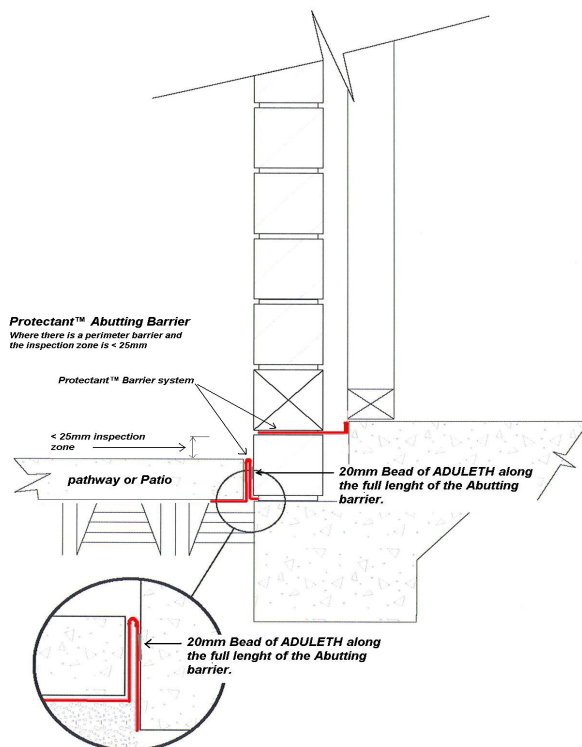
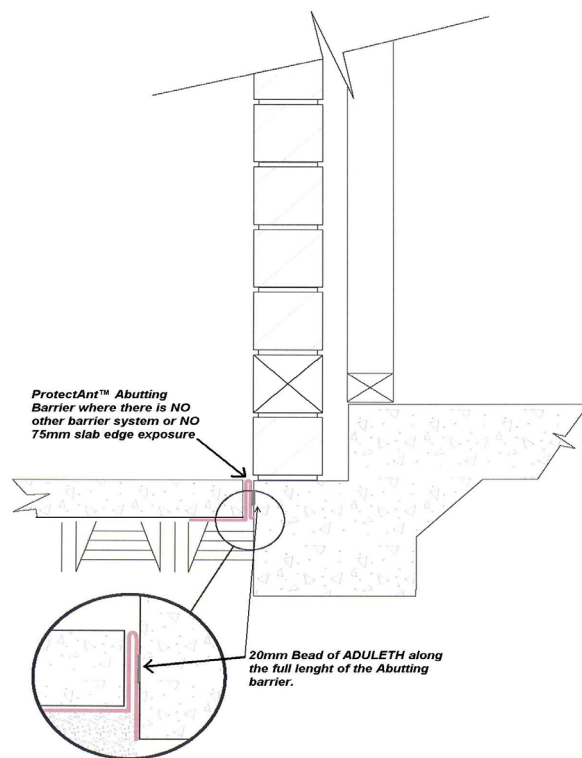
These are usually required due to the incorrect positioning of a pipe prior to the slab pour, a slab break out caused by a frame anchoring bolt/nail or in the case of a renovation to an existing building.

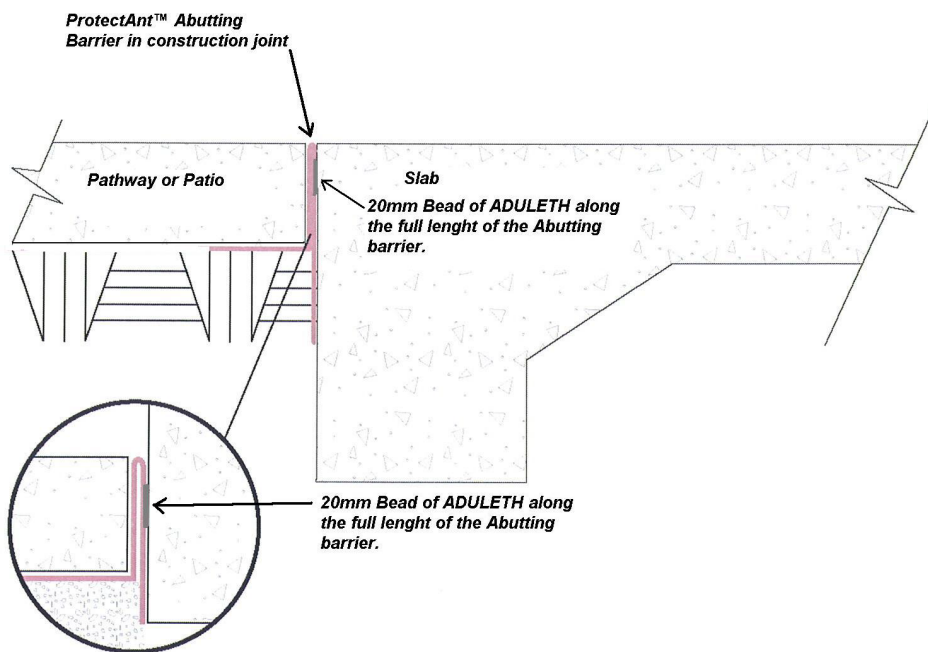
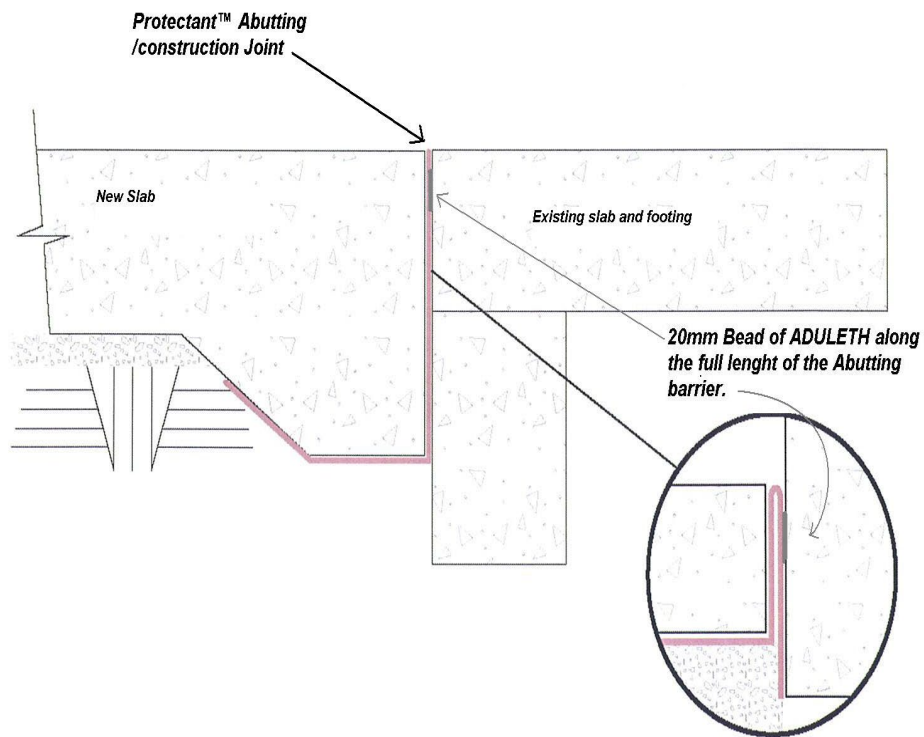
You must ensure the area to be repaired is free of contamination and debris through wire brushing prior to applying ADULETH adhesive or sufficient bonding may not occur.

When certain the area to be repaired is sufficiently clean, measure 50mm either side of the slab joint and apply ADULETH adhesive to these lines and 10mm from either side of the slab joint i.e. apply 4 beads of ADULETH to the slab. Apply *Protectant*[™] Termite Barrier PRO110 to the slab joint. Adhere with sufficient downward pressure to spread ADULETH to ensure there are no voids. Floor leveller can then be applied if required prior to floor coverings.

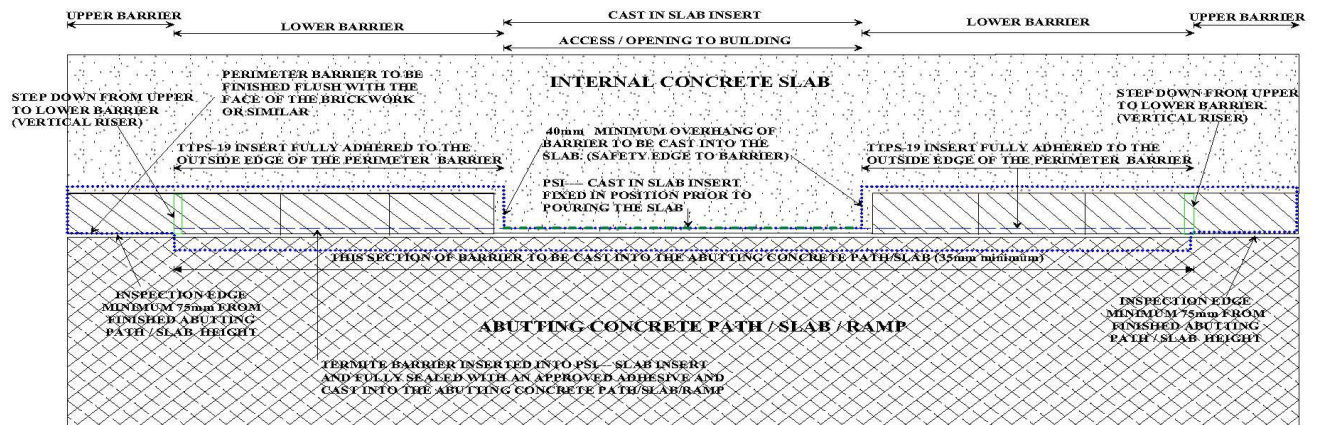
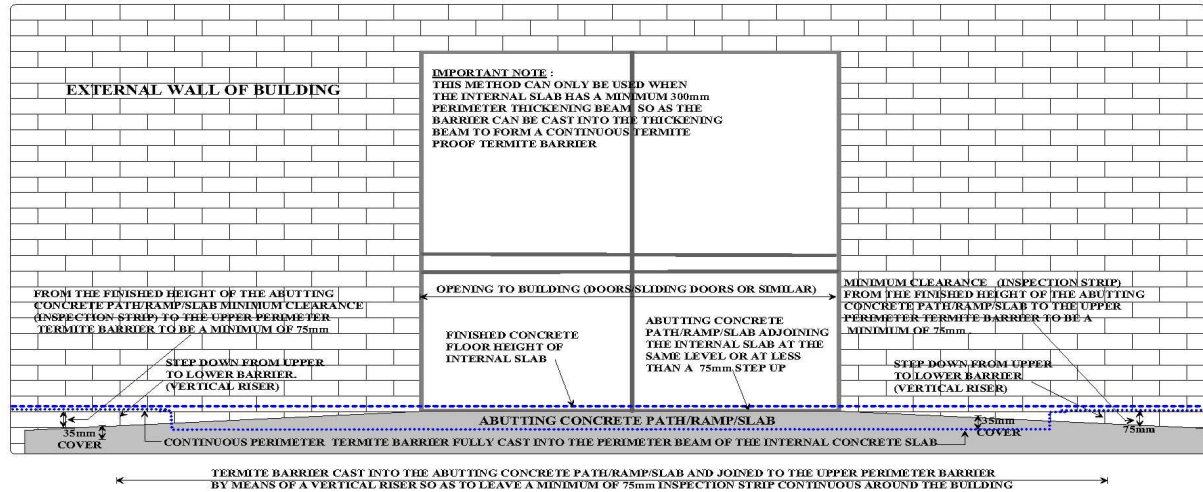


Construction Abutting (Cold) Joint Installations





**ELEVATION VIEW OF CONCRETE PATH/
RAMP/SLAB ABUTTING AN INTERNAL
CONCRETE SLAB AT THE SAME FINISHED
HEIGHT WITHOUT A 75mm INSPECTION
STRIP TO THE EXTERNAL PERIMETER**



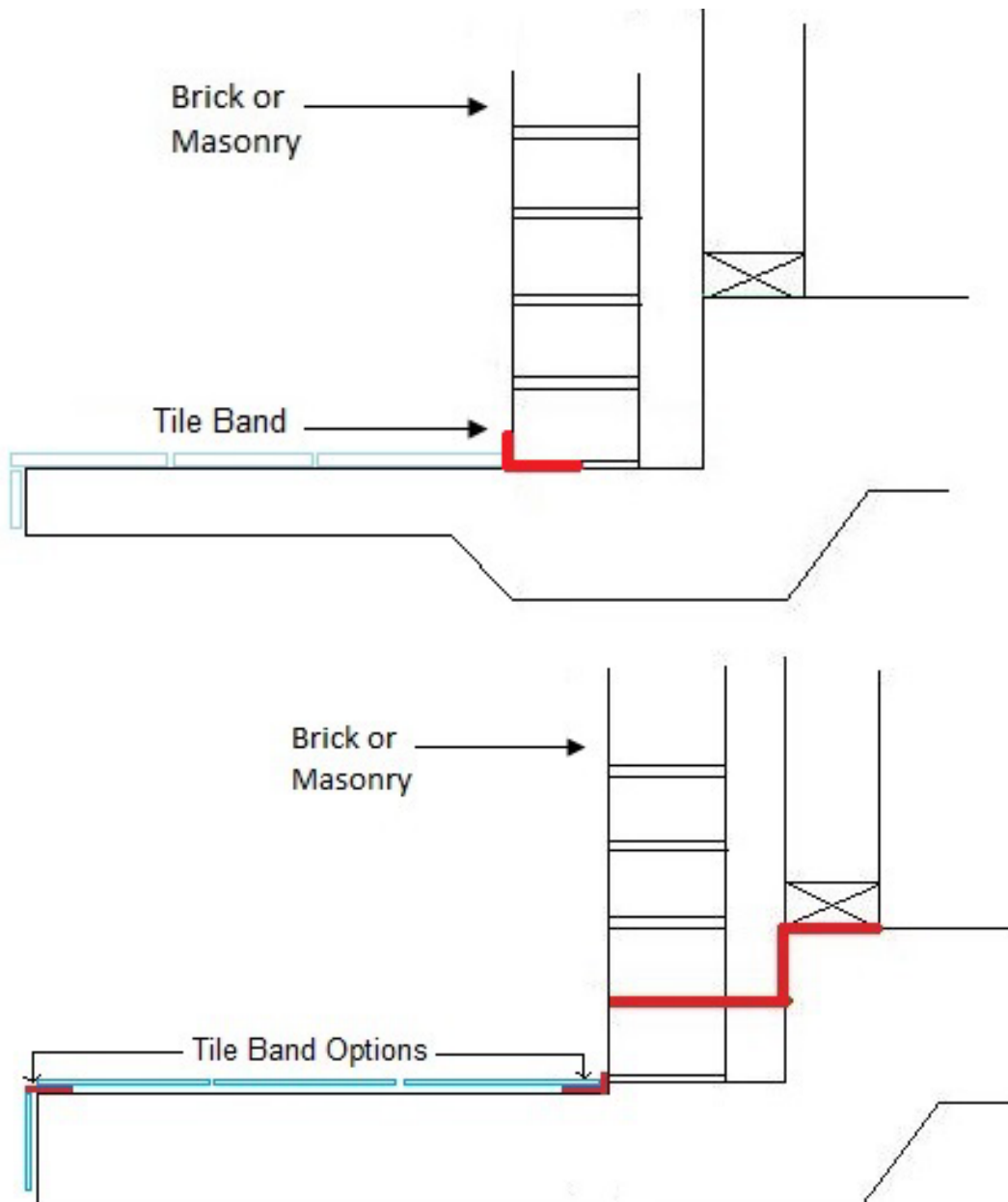
**PLAN VIEW OF CONCRETE PATH/
RAMP/SLAB ABUTTING AN INTERNAL
CONCRETE SLAB AT THE SAME
FINISHED HEIGHT WITHOUT 75mm
INSPECTION STRIP TO EXTERNAL**

Tile Band Installations

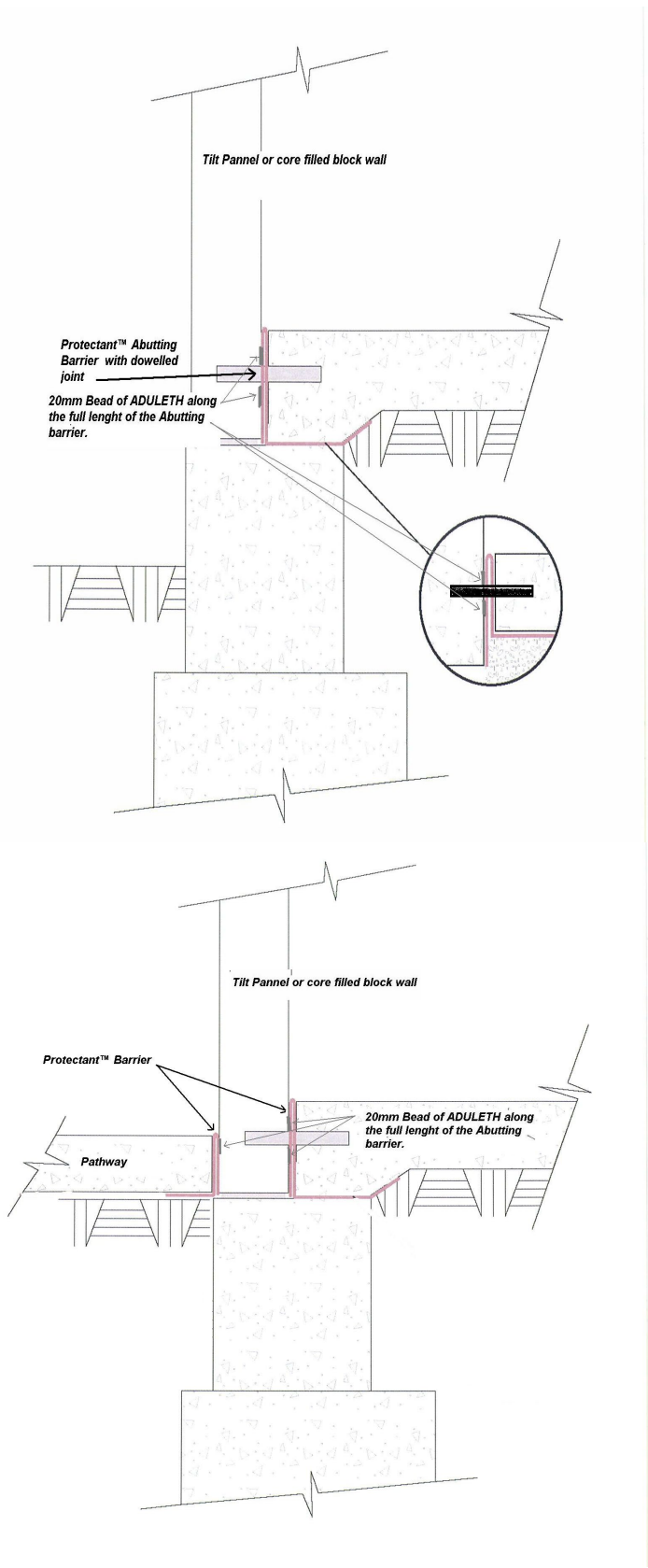
There are three commonly used options for the installation of a tile band:

- Protruding from under the external cladding
- Against the external cladding of the structure
- To the external perimeter of the alfresco/verandah concrete slab

The external perimeter tile band option is only viable if the alfresco/verandah concrete slab was poured monolithically to the main concrete slab or has had a Construction Abutting (Cold) joint installed.



Tilt Panel Installations



Retaining Wall and Stepdown Installations

Installation is preferably done on the inside of walls.

Before commencing work, determine the widths of *Protectant*™ Termite Barrier that will be required allowing 50mm of overlap for joining (if required) and 50mm of contact with the concrete top and bottom.

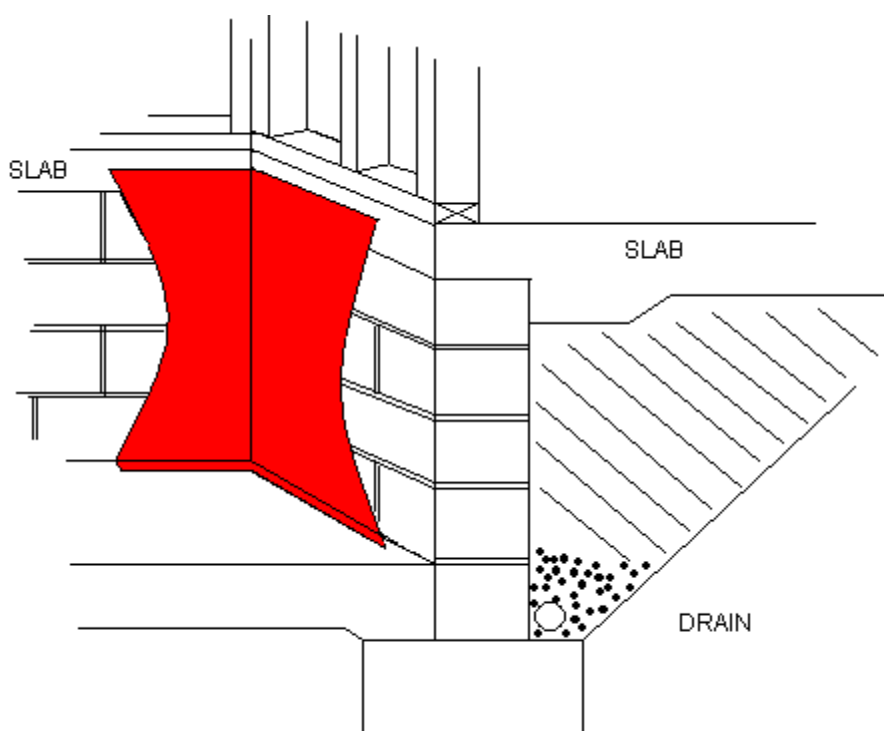
Discuss with the builder if the wall is to have direct stick plaster board applied or if the wall is to be battened or framed prior to the application of plaster board. Ask the builder to indicate frame fixing points and additional ADULETH must be applied to these points to isolate the frame fixings.

You must ensure the area to be installed is free of contamination and debris through wire brushing or sufficient bonding may not occur.

In the case of direct stick plaster board apply a construction adhesive in 8mm diameter beads horizontally at 200mm centres to the treated area before applying the *Protectant*™ Termite Barrier. This will ensure the plaster board will hold to the termite protection.

In the case of battened or framed walls apply a construction adhesive in 8mm diameter beads horizontally at 400mm centres to the treated area before applying the *Protectant*™ Termite Barrier.

Apply ADULETH to the 50mm of contact with the concrete top and bottom as well as any 50mm overlap joins. Apply sufficient pressure to ensure the *Protectant*™ Termite Barrier engages with the construction adhesive and the ADULETH.



BACKFILLED WALLS (NON-MONOLITHIC SLABS)

"PROTECTANT" is a Polymer based fabric impregnated with a termite resistant substance

THE INSPECTION EDGE OF THE BARRIER MUST BE CHECKED REGULARLY (AT LEAST ONCE EVERY 12 MONTHS SOUTH OF THE TROPIC OF CAPRICORN AND AT LEAST TWICE EVERY 12 MONTHS NORTH OF THE TROPIC OF CAPRICORN OR IN AREAS THAT ARE KNOWN TO HAVE INCREASED TERMITE ACTIVITY) TO ENSURE THAT THERE HAS BEEN NO BRIDGING OF THE BARRIER BY TERMITES

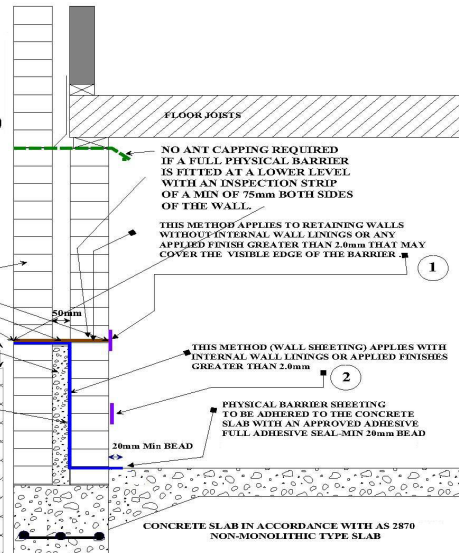
CAVITY BRICK CONSTRUCTION OR SIMILAR

CORE FILL TO CAVITY 50mm MIN - IF NECESSARY

FALL AWAY FROM
STRUCTURE / WALL

75mm Minimum

BACKFILLED AREA



BACKFILLED WALLS MONOLITHIC SLAB TYPE CONSTRUCTION

THE INSPECTION EDGE OF THE BARRIER MUST BE CHECKED REGULARLY (AT LEAST ONCE EVERY 12 MONTHS SOUTH OF THE TROPIC OF CAPRICORN AND AT LEAST TWICE EVERY 12 MONTHS NORTH OF THE TROPIC OF CAPRICORN OR IN AREAS THAT ARE KNOWN TO HAVE INCREASED TERMITE ACTIVITY) TO ENSURE THAT THERE HAS BEEN NO BRIDGING OF THE BARRIER BY TERMITES

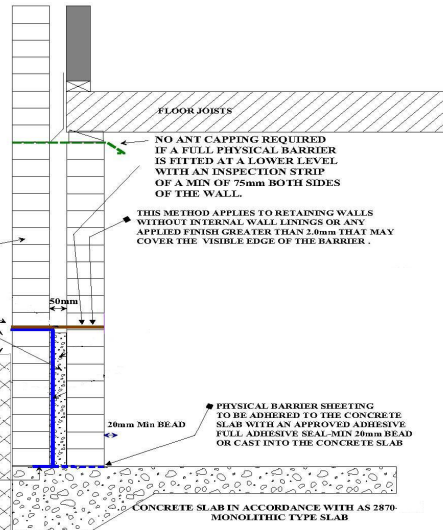
CAVITY BRICK CONSTRUCTION OR SIMILAR

CORE FILL TO CAVITY 50mm MIN - IF NECESSARY

FALL AWAY FROM
STRUCTURE / WALL

75mm Minimum

PHYSICAL BARRIER SHEETING
TO BE ADHERED TO THE CONCRETE
SLAB WITH AN APPROVED ADHESIVE
FULL ADHESIVE SEAL MIN 20mm BEAD



BACKFILLED WALLS NON-MONOLITHIC AND MONOLITHIC TYPE SLABS

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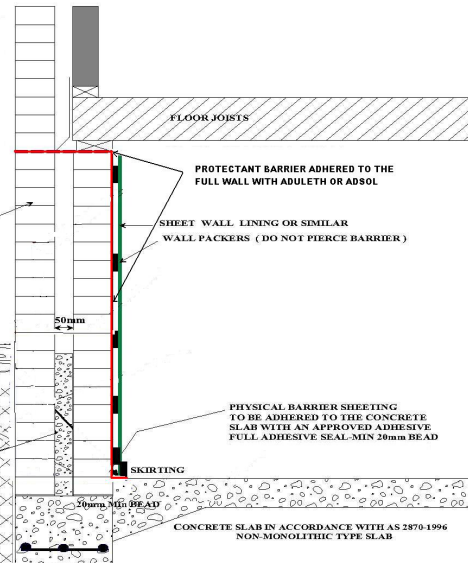
CAVITY BRICK CONSTRUCTION OR SIMILAR

THE INSPECTION EDGE OF THE BARRIER MUST BE CHECKED REGULARLY (AT LEAST ONCE EVERY 12 MONTHS SOUTH OF THE TROPIC OF CAPRICORN AND AT LEAST TWICE EVERY 12 MONTHS NORTH OF THE TROPIC OF CAPRICORN OR IN AREAS THAT ARE KNOWN TO HAVE INCREASED TERMITE ACTIVITY) TO ENSURE THAT THERE HAS BEEN NO BRIDGING OF THE BARRIER BY TERMITES

CORE FILL TO CAVITY 50mm MIN - IF NECESSARY

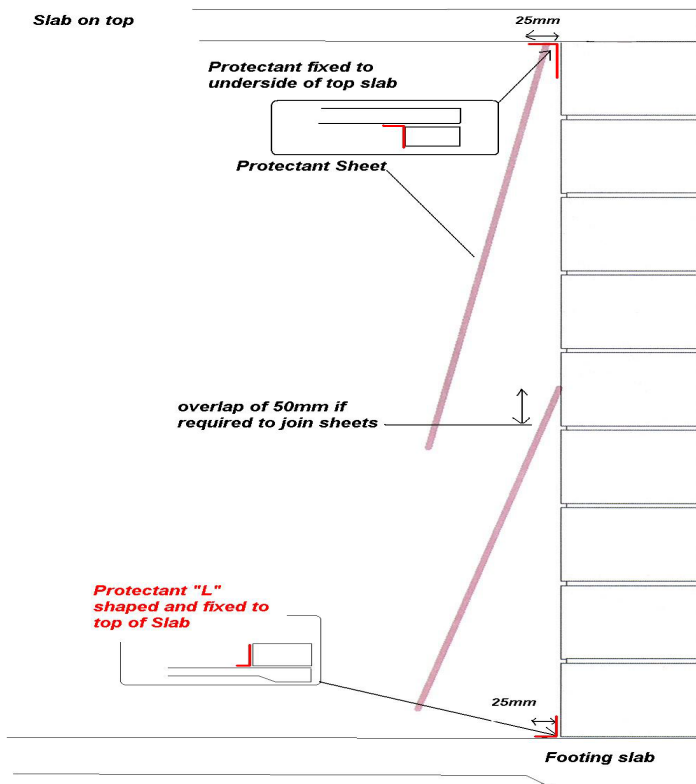
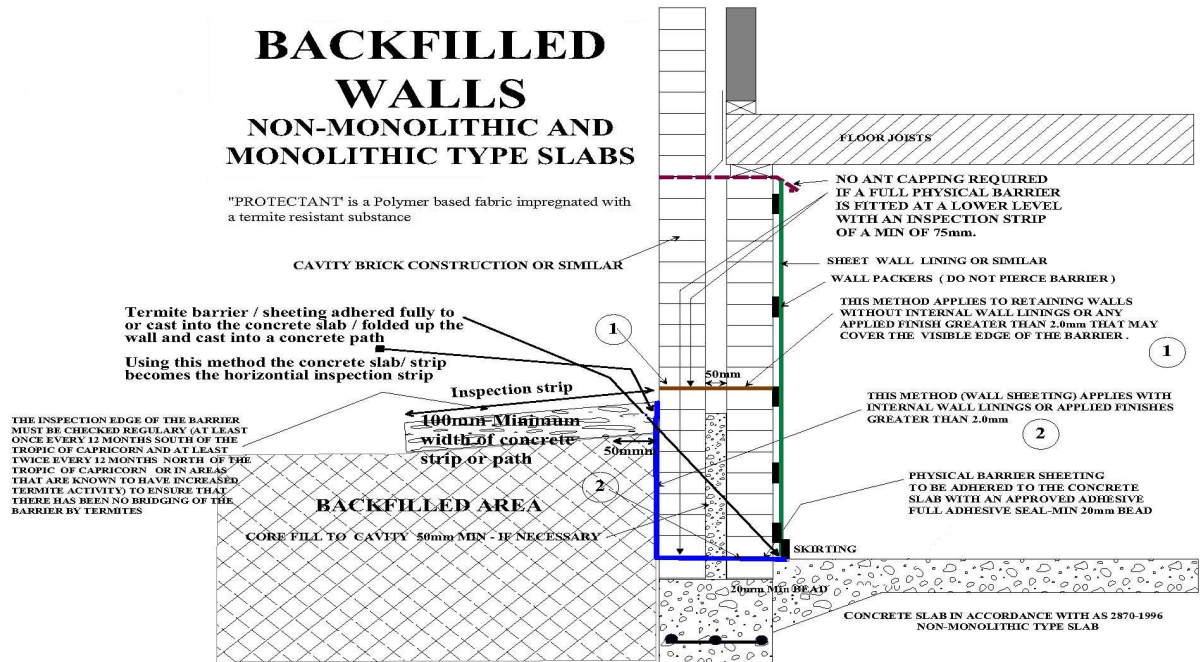
BACKFILLED AREA

100mm Minimum
width of concrete
strip or path

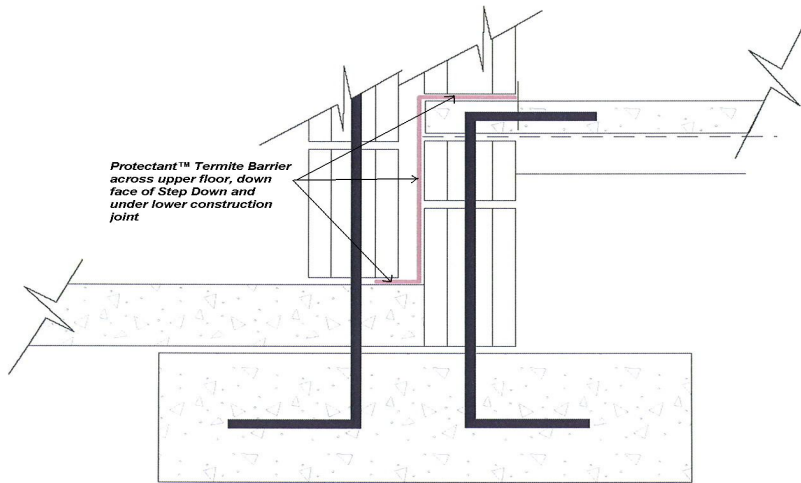


BACKFILLED WALLS NON-MONOLITHIC AND MONOLITHIC TYPE SLABS

"PROTECTANT" is a Polymer based fabric impregnated with a termite resistant substance



Protectant™ Barrier Installed in a Step Down Construction Joint



Protectant™ Barrier Installed in a Step Down Construction Joint

