PEST Protectant™ MANAGEMENT
THEWHITEANTCO.
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THEWHITEANTCO

Protectant™ Termite Barrier Systems

Architects, Engineers and Builders Installation and Specification Guide

TERMITE Protectant™ BARRIER

THEWHITEANTCO.

HIA GreenSmart REGIONAL PARTNER

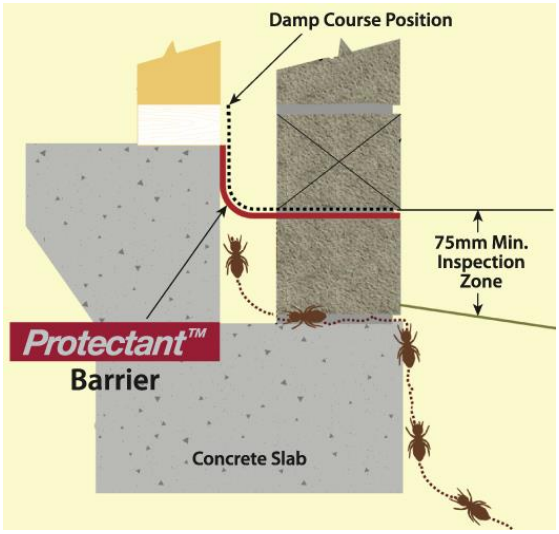
CODEMARK™ CMA-CM40036

TABEL OF CONTENT

THE*WHITE*ANTCO

Protectant™ Termite Barrier Systems

- Constructed from durable geotextile strengthened by the impregnation with a patented termite resistant bonding agent
- Termites are repelled and killed
- Fully bonded to both concrete and brickwork
- 50+ years durability
- No other system offers all these benefits
- 15 year timber replacement warranty on product and installation (*Conditions apply)
- Complete coverage of cavity area
- Flexibility for all construction methods



Protectant™ Termite Barrier System.
Product description

The Protectant™ Termite Barrier System is a specialised termite resistant impregnated polyester fabric (polymer) termite barrier system. This system was covered by “CSIRO Appraisal 321”. This appraisal has been independently revaluated by ECOSPAN Pty Ltd as the CSIRO system was phased out and replaced by the “CodeMark “ compliance system. Our company has engaged the services of: Global-Mark Suite 4.07,32 Delhi Road, North Ryde NSW 2113. As auditor for compliance with the BCA under the “Codemark System”, this process was completed in January 2010 and final certification was issued on 15th of April 2010 with the certificate number GM-10-CM30020.Current CodeMark certification number CMA-CM40036 as of 6th of March 2013.

General:

The perimeter barriers, construction joints barriers, retaining walls, suspended floor barriers and slab penetration collars are made from a polyester fabric (polymer) impregnated with a termite resistant compound by a factory process or PVC collar with all joins adhered with an approved and tested termite resistant flexible adhesive 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 sealed to the slab with The White Ant Co. Pty Ltd approved adhesives or adhesive coatings. The barrier is placed finished not less than 75mm above finished ground level or not less than 25mm where concrete or similar materials abut the perimeter of the structure. Where it is not possible to achieve a minimum inspection zone of 25 mm, a secondary barrier must be installed.

The Protectant™ Polymer Termite Barrier System Perimeter barrier may be cast into a concrete slab prior to pouring. Slab penetration flanges are bonded to the slab penetration pipe with ADULETH Termiticide Flexible adhesive and held in position on the pipe penetration if necessary by means of a PVC collar or cable tie. The slab penetration flange or polymer fabric are placed at a mid slab depth and below the finished slab height. The pipe penetration collars may be fitted prior to concrete pour or retrofitted.

Components:

Protectant™ polymer barrier impregnated with AD-TR-SC RED
PVC minimum 1.00mm with a D shore of better than 80
ADULETH termiticide Termite resistant flexible adhesives

Attached is a copy of the Technical assessment of all of our termite management systems, and as per the technical assessment for CodeMark, the materials used in both barrier systems has a serviceable life that will exceed 50 years.

Protectant™ Polymer Termite barrier system.
Product description

In summary:

The Protectant™ Polymer termite management system offered for installation on your projects will provide “whole of building protection against concealed entry by subterranean termites into the structure” as per the Australian Standards code AS3660.1 of 2000 and the total system complies with the requirements of the BCA and the Queensland amendments related to termite barrier systems.

Please review the following documents as compliance.
CodeMark™ Certificate of Conformity Number CMA-CM40036
Technical Assessment of The White Ant Co Pty Ltd termite management systems for Codemark.

Installation drawings are assessable on our website
WWW.whiteantco.com.au/downloads1.html and / or an Installation Manual can be supplied on request.

CERTIFICATE OF CONFORMITY

This is to certify that

Protectant™ Termite Barrier

CODEMARK™

CertMark

Product description

The *Protectant*™ Termite Barrier System is a geotextile fabric impregnated with Bifenthrin Termiticide and/or Stainless Steel Barrier sealed with an adhesive.
The System comprises of:
- *Protectant*™ Termite Barrier
- *Protectant*™ Wall Sheeting
- ADSOL (Adhesive)
- ADULETH Termiticide (Adhesive)
- PVC and Stainless Steel (316) Flanges for penetrations and Stainless Steel (316) for perimeter barriers.

Product purpose or use

Subterranean termite barrier system.

Certificate holder

The White Ant Co
Unit 2 57-61 Burchill Street
Loganholme, QLD 4129
Tel: 07 3806 1402
enquiries@thewhiteantco.com.au

CodeMark certification body

CertMark Australasia Pty Ltd
(ACN 154 3036 804)
JAS-ANZ Accreditation No. Z4450210AK
Address: PO Box 7144, Sippy Downs, QLD, 4556
Website: www.certmark.com.au

Complies with the Building Code of Australia:

1. Volume One 2012: BP1.1 (a) & (b) (xv) (limited to the actions of subterranean Termites).
2. Volume Two 2012: P2.1 (a) & (b) (xv) (limited to the actions of subterranean Termites).
3. State Variations:
   (a) Qld P2.1.1 (limited to the actions of subterranean Termites).

Subject to the following conditions and limitations:

1. The system must only be installed by accredited installers duly trained and accredited by The White Ant Co Pty Ltd.
2. A durable notice installed in accordance with BCA Volume One; B1.4 (i) (ii) and BCA Volume Two; 3.1.3.2(b) must be affixed in a prominent location to the building such as the meter box or similar.
3. As the *Protectant*™ Termite Barrier System relies on the concrete slab forming the major part of the Termite Barrier. Any such slab must be constructed in accordance with AS2870; 1996 (up to amendment 4, 05/2003 or AS 3660:2000 (up to amendment 2, 10/2004).
4. All installations must be done in accordance with *Protectant*™ Termite Barrier The White Ant Co Pty Ltd Quality Manual & Safe Work Procedures Version 3/2010.

Notes:

(1) The *Protectant*™ Termite barrier PVC Flanges are manufactured from Un-plasticized PVC with a D shore hardness of 80 as required by AS 3660.1: 2000.

(2) The *Protectant*™ Termite barrier PVC Flanges are manufactured from 316 grade stainless steel as required by AS 3660.1: 2000.

ABCB

JAS-ANZ

John Thorpe	Luke Owen-Jones	20/03/2013	20/03/2016	CMA-CM40036
Director	**Unrestricted**	**Date of issue**	**Date of expiry**	**Certificate Number**
CertMark Australasia Pty Ltd	**Building Certifier**			

WWW.JAS-ANZ.ORG/REGISTER

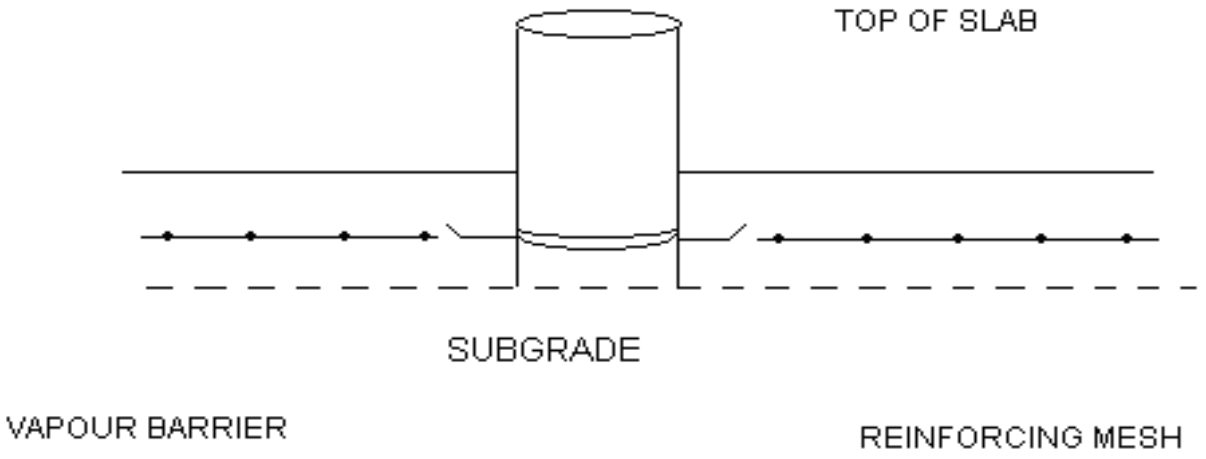
- This Certificate of Conformity is issued by an accredited certification body under arrangement with JAS-ANZ. The ABCB does not in any way warrant, guarantee or represent that the Product the subject of this Certificate of Conformity conforms with the BCA, nor accepts any liability arising out of the use of the Product. The ABCB disclaims to the extent permitted by law, all liability (including negligence) for claims of losses, expenses, damages and costs arising as a result of the use of the product(s) referred to in this Certificate.
- 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.

Protectant™ Penetrations

- *PVC minimum 1.00mm with a D shore of better than 80*
- *Permanently set into concrete*
- *Permanently fixed to pipe penetrations*
- *Fixed with termite resistant adhesive*

SERVICE PENETRATIONS

PRE - POUR PENETRATION PROTECTION



Retro-Fit pipe penetration

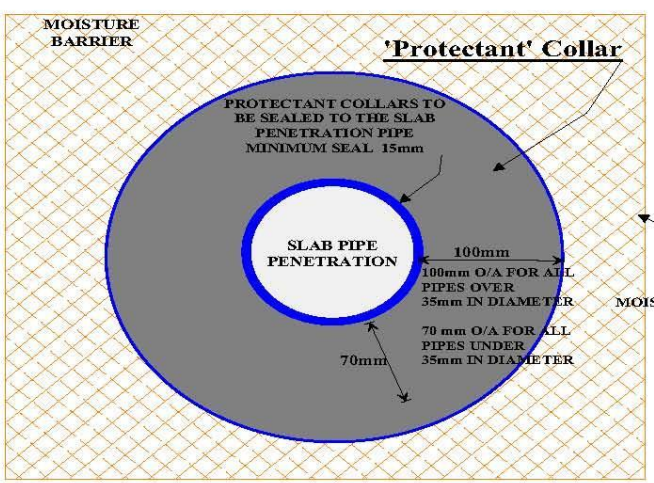
In some cases termite protection to the slab penetrations maybe required after the slab has been poured or in the case of a renovation of an existing building. *Protectant*™ Termite Barrier can be “Retro-Fitted” to form an effective termite barrier using the *Protectant*™ fabric and either ADULETH or ADSOL adhesive.
Where abel flex foam is raped around the pipe at top of slab level > 15mm shall be removed and this area filled with ADULETH adhesive before fitting the *Protectant*™ fabric collar.

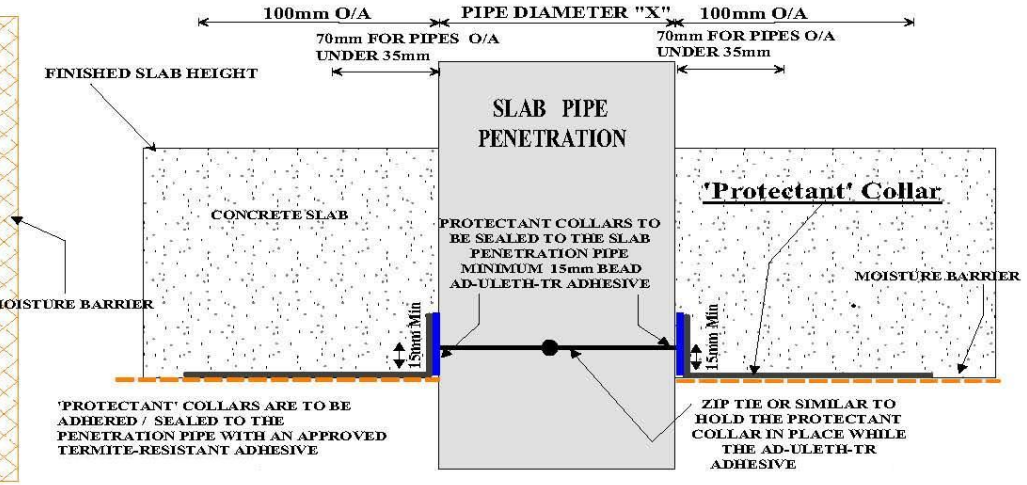
PROTECTANT PIPE COLLARS

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

TYPICAL PIPE PENETRATION DETAIL

'PROTECTANT' COLLAR FITTED PRIOR TO THE POURING OF THE CONCRETE SLAB.





AN INSPECTION OF THE PENETRATIONS MUST BE MADE REGULARY (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

REINFORCED CONCRETE SLAB DESIGNED BY AN ENGINEER TO CONFORM TO A.S.2870-1996

IT IS RECOMMENDED THAT THE CONCRETE SLAB BE VIBRATED WITHIN THE AREAS WHERE THE TERMITE BARRIER IS INSTALLED SO AS TO PREVENT ANY BONEY SECTIONS OR VOIDS FORMING IN THE CONCRETE SLAB. FAILURE BY THE BUILDER OR CONCRETOR TO VIBRATE THE SLAB WITHIN THESE AREAS COULD RESULT IN VOIDING OF THE WARRANTY

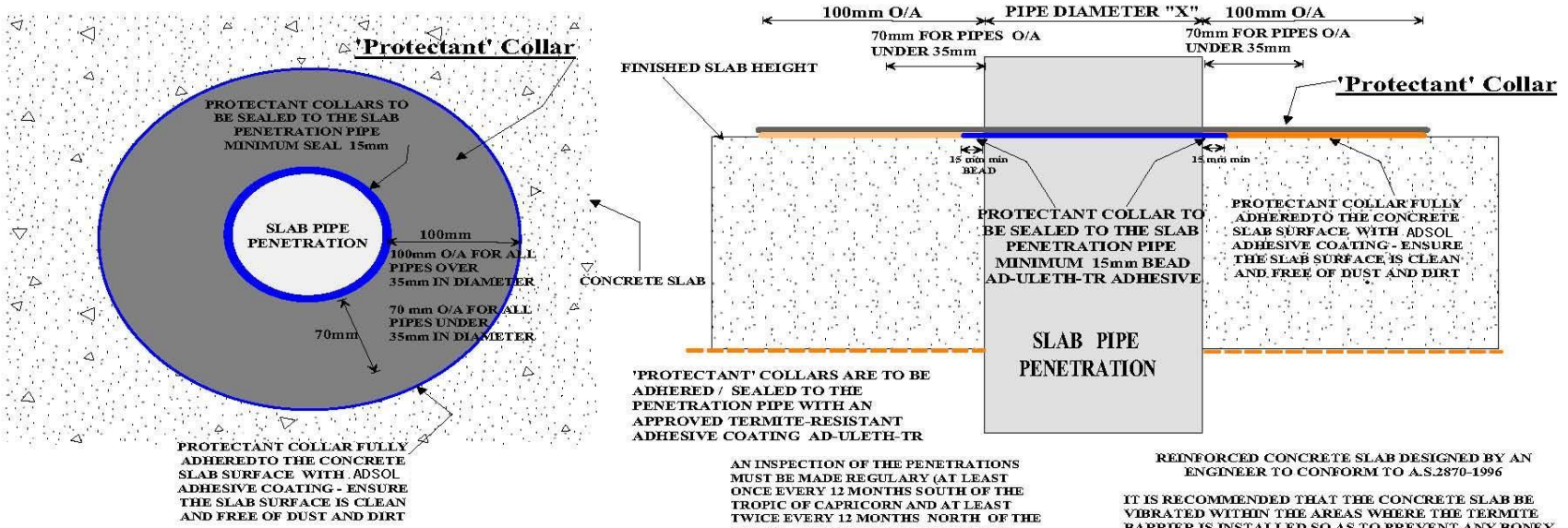
PROTECTANT PIPE COLLARS

TYPICAL PIPE PENETRATION DETAIL

RETRO FIT COLLARS

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

'PROTECTANT' COLLAR ADHERED TO THE CONCRETE SLAB WITH ADSOL ADHESIVE COATING AND SEALED TO THE SLAB PIPE PENETRATIONS WITH AD-ULETH-TR ADHESIVE - MINIMUM 7 DAYS AFTER THE POURING OF THE CONCRETE SLAB.



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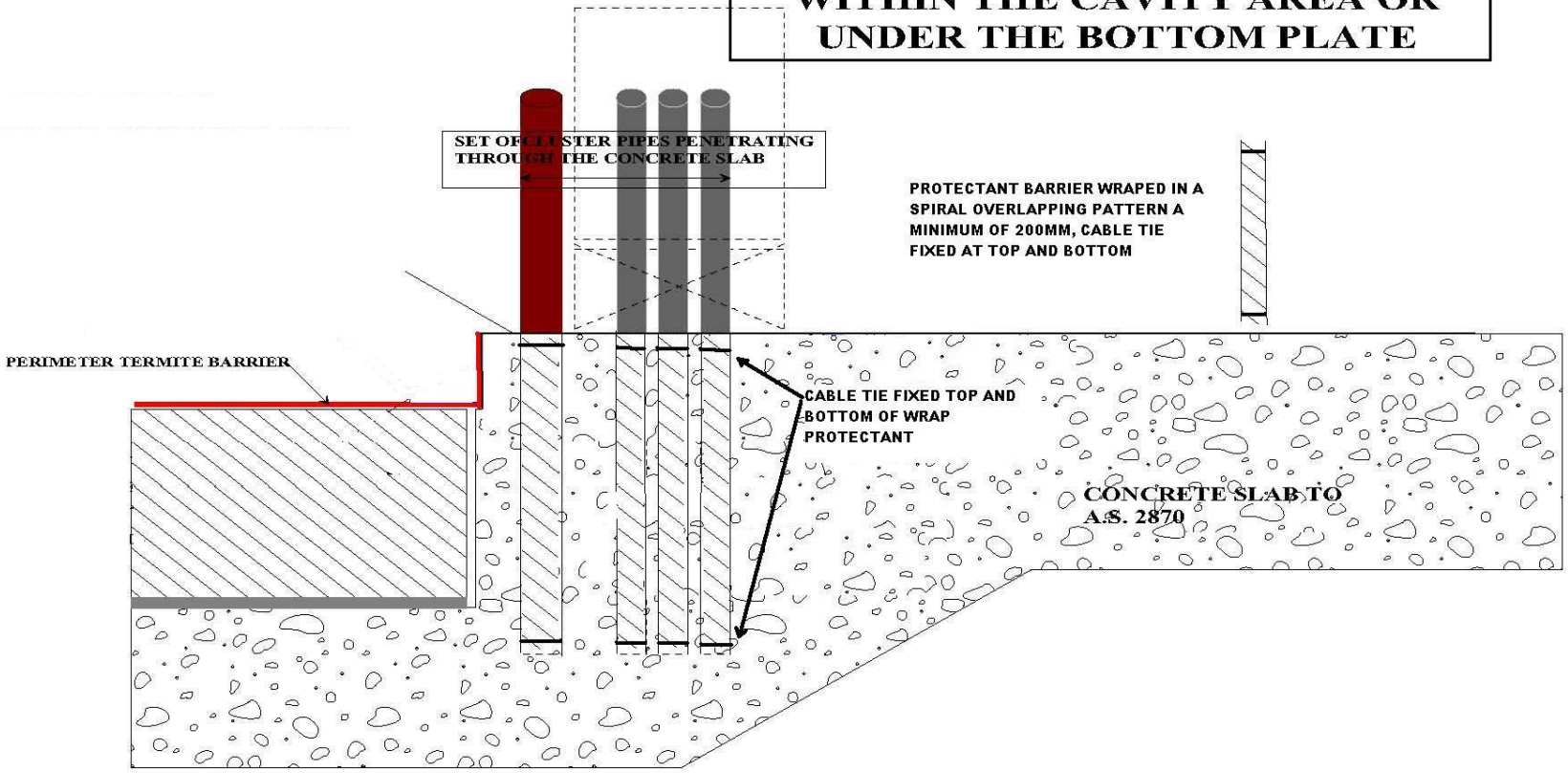
CLUSTER PIPES PENETRATION THROUGH THE EDGE OF THE SLAB WITHIN THE CAVITY AREA OR UNDER THE BOTTOM PLATE

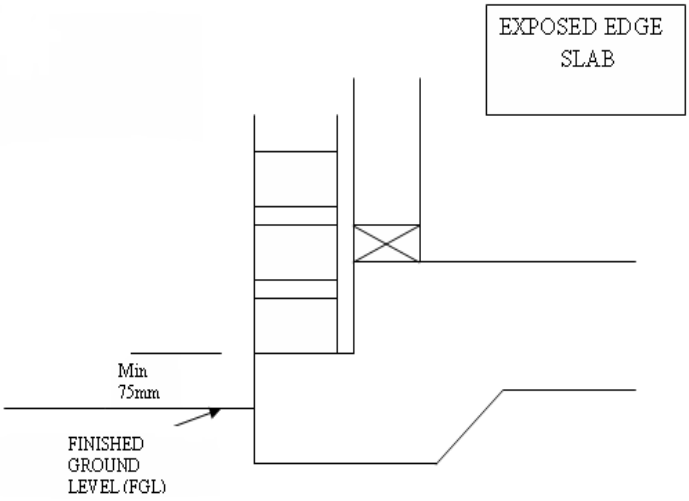


PERIMETER BARRIER INSTALLATIONS

No perimeter barrier installation is to be commenced without first inspecting the slab for problems such as drummy areas caused by frame anchor bolts or nails.

These need to be repaired or isolated from the perimeter barrier. The slab edge has to be as free of dust as possible through brushing. All slurry should be removed from the rebate as this may reduce the bonding ability of the adhesive.

The performance of the adhesives and therefore the entire barrier system is affected by poor preparation –



When an exposed edge slab is to be utilised there is no instance when the visual inspection zone can be decreased below 75mm to either finished ground level or to a hard surface such as concrete or paving.

To reduce the visual inspection zone a secondary barrier must be installed.

SIDE FIX CAVITY BARRIERS

The *Protectant*™ Termite Barrier is installed by first applying a bead of ADULETH to the top of the brick to secure the barrier and allow for grooming to the slab.

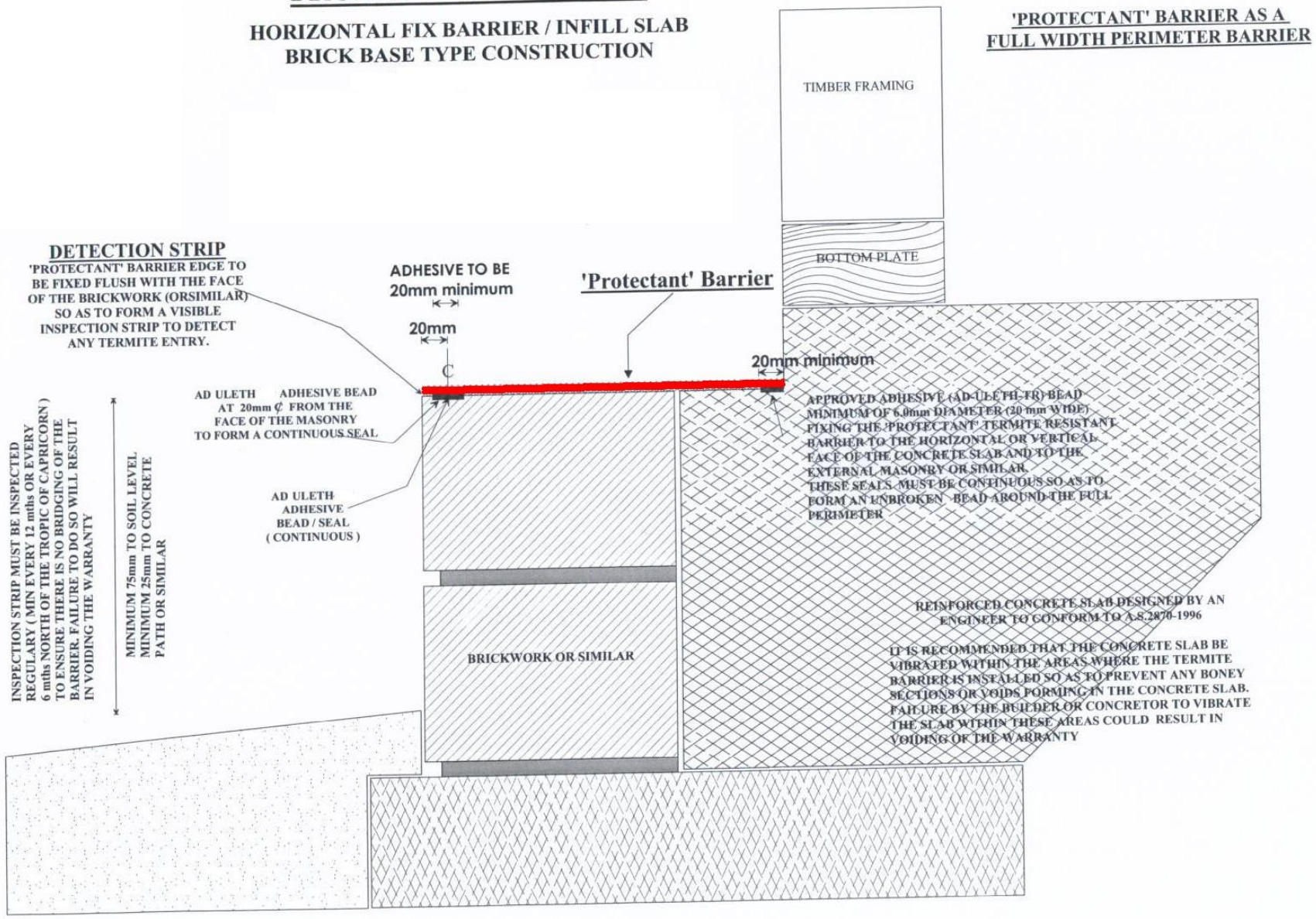
A bead of ADULETH is applied under the barrier to ensure no termite access can be achieved under the barrier.

The adhesive must be visible between the barrier and the contact point with the slab.

At entry doors or window sills three beads of adhesive are applied to ensure the stability of tiles or sill bricks when they are adhered to the *Protectant*™ Termite Barrier.

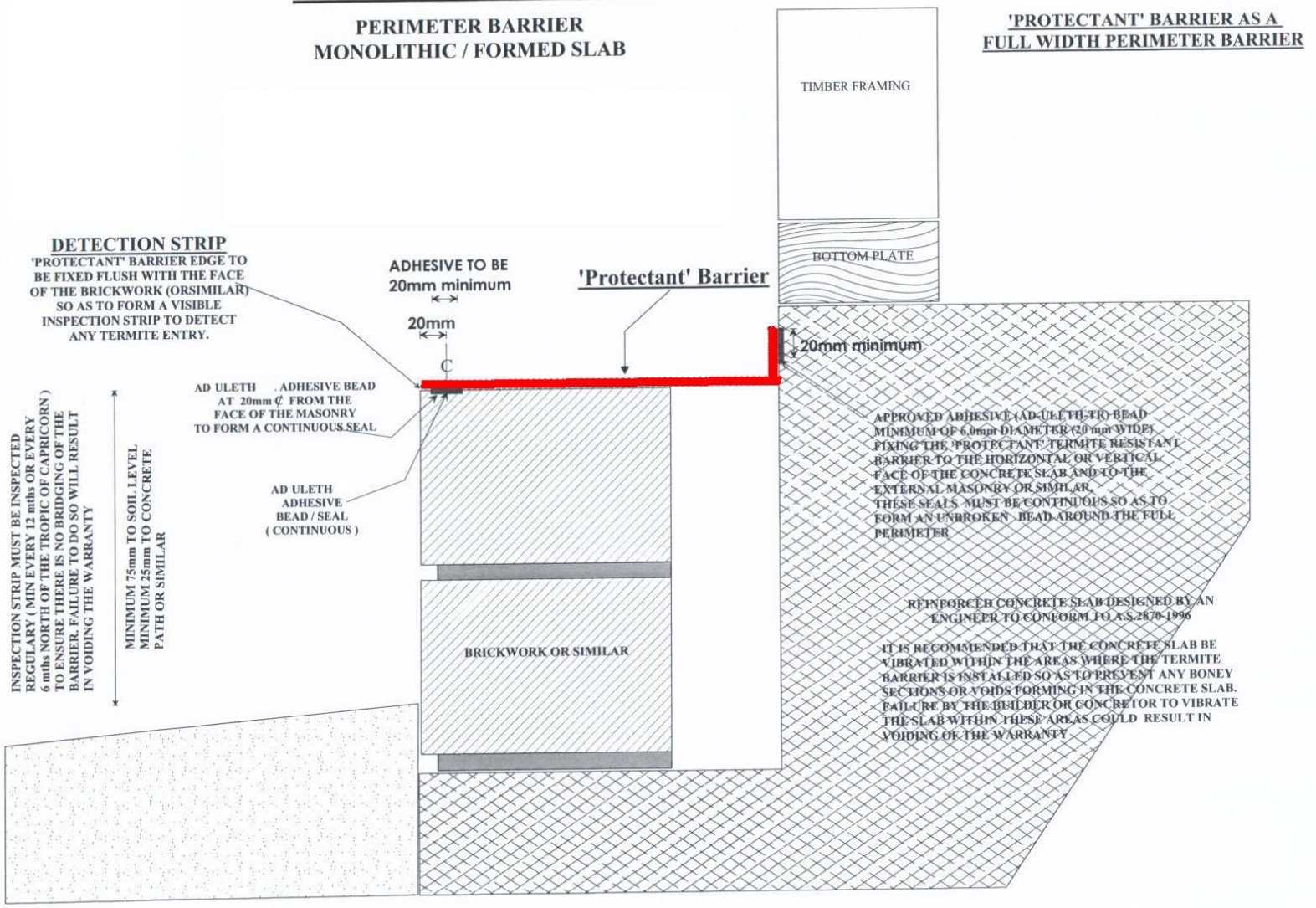
PROTECTANT BARRIER

HORIZONTAL FIX BARRIER / INFILL SLAB
BRICK BASE TYPE CONSTRUCTION



PROTECTANT BARRIER

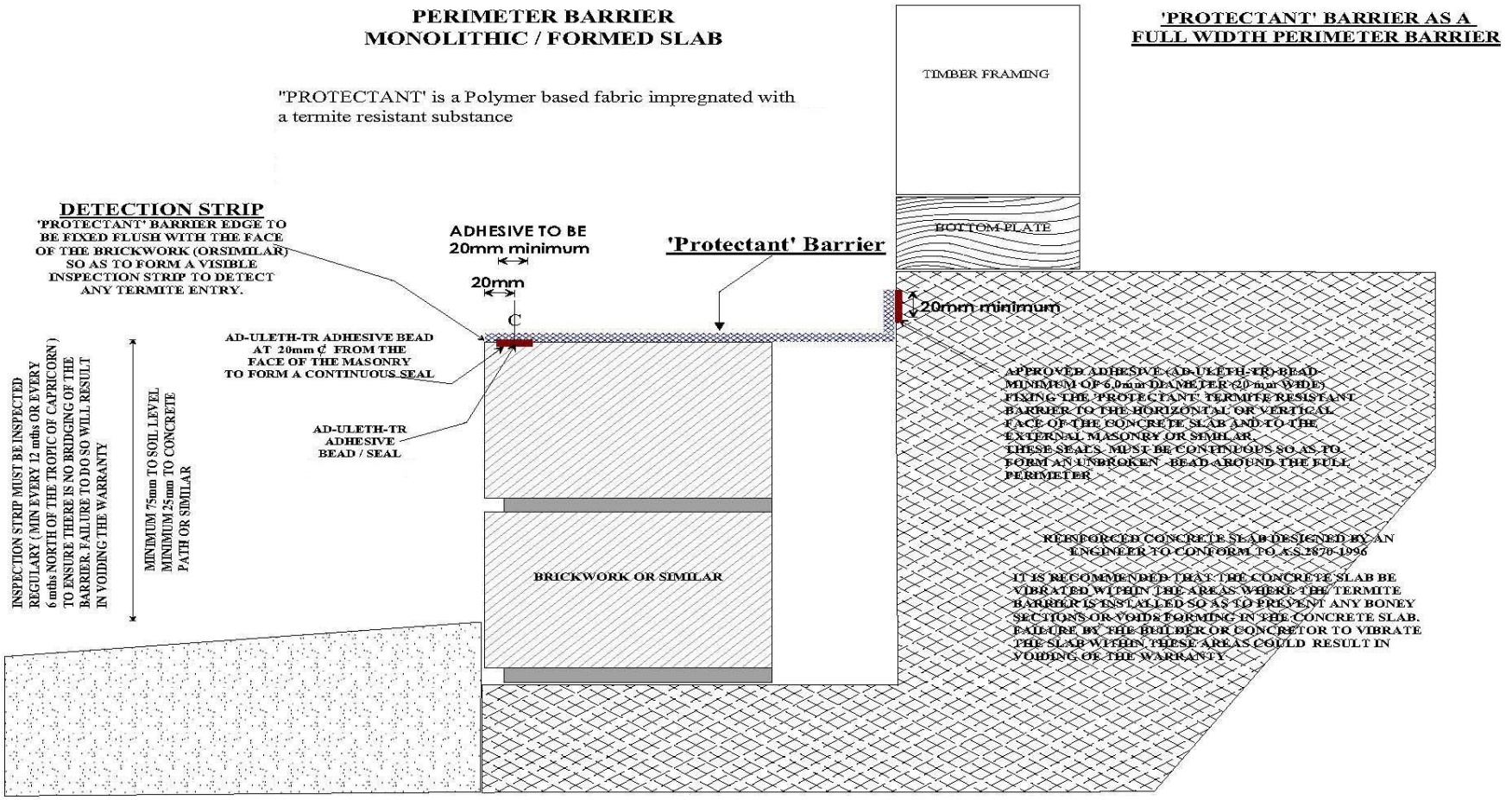
PERIMETER BARRIER
MONOLITHIC / FORMED SLAB

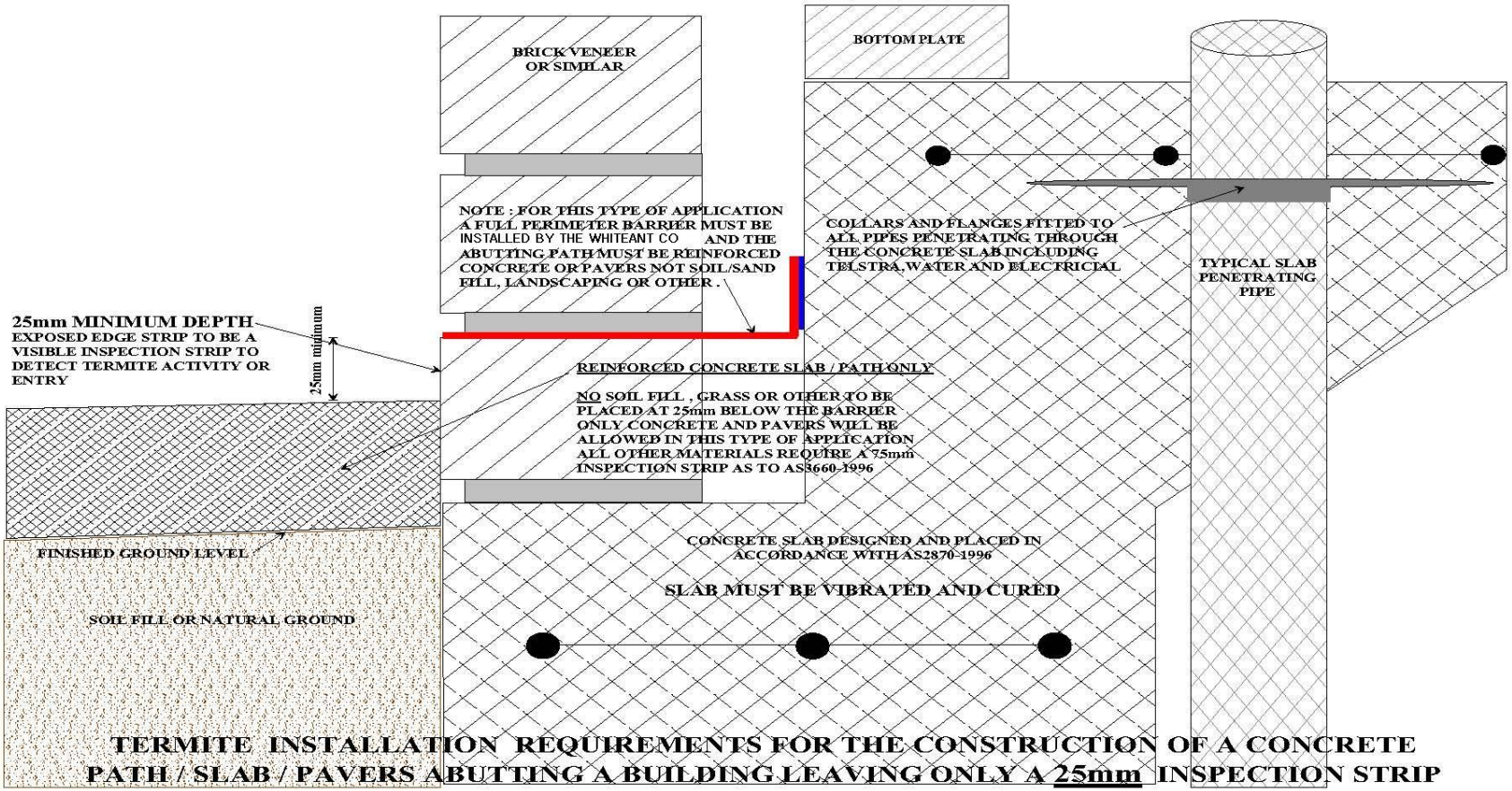


PROTECTANT BARRIER

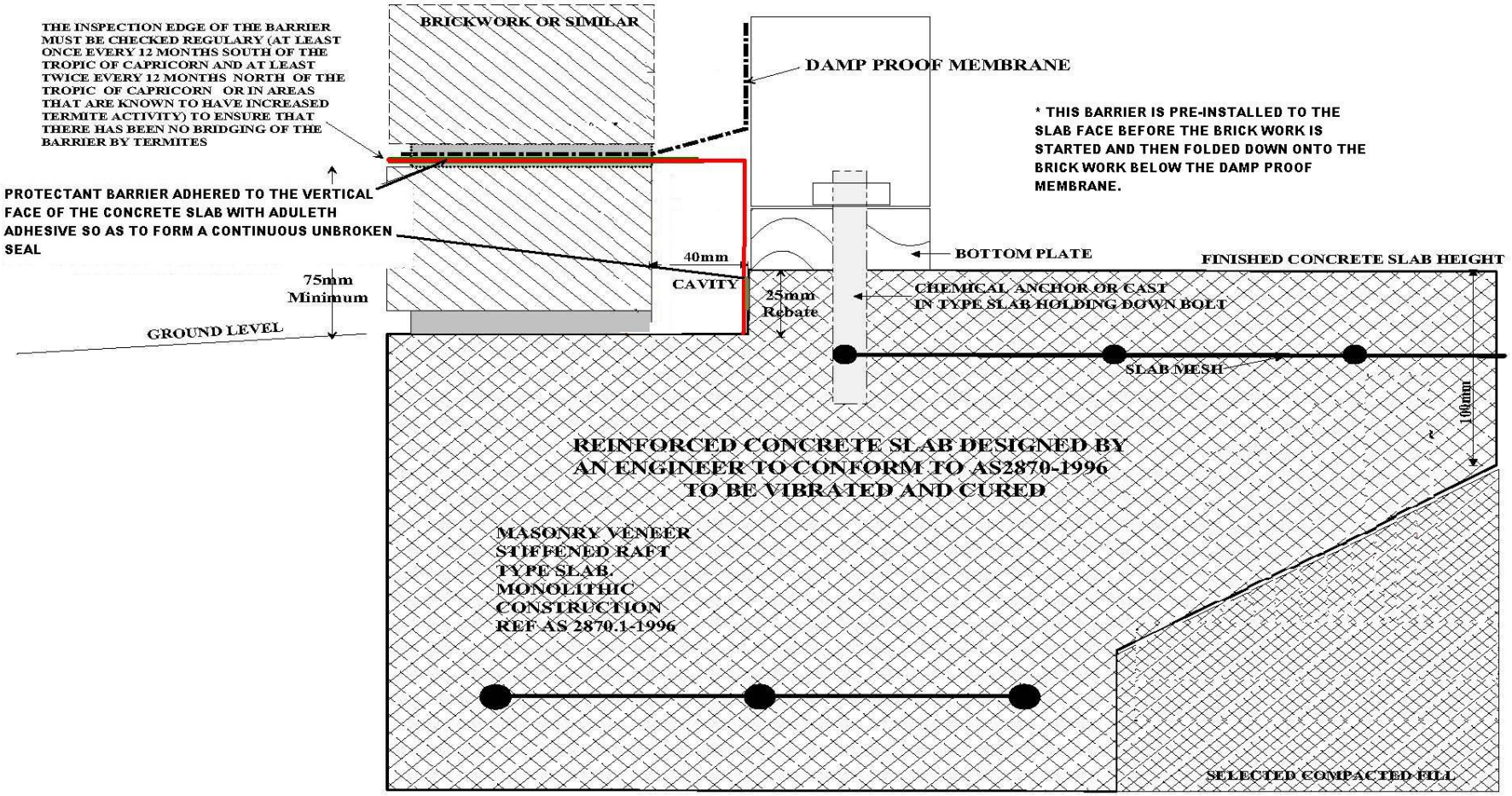
PERIMETER BARRIER
MONOLITHIC / FORMED SLAB

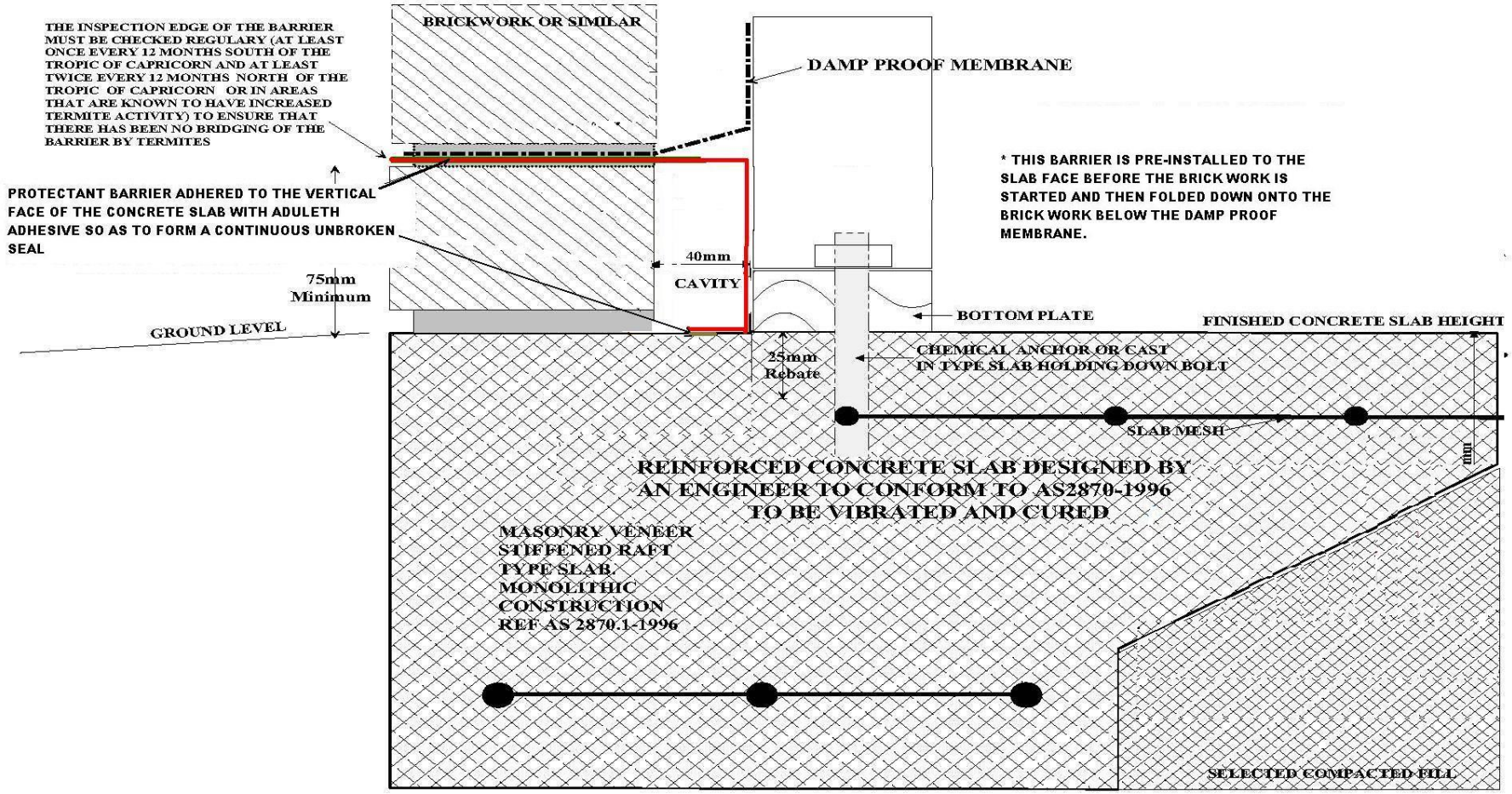
"PROTECTANT" is a Polymer based fabric impregnated with a termite resistant substance





TERMITE INSTALLATION REQUIREMENTS FOR THE CONSTRUCTION OF A CONCRETE PATH / SLAB / PAVERS ABUTTING A BUILDING LEAVING ONLY A 25mm INSPECTION STRIP


THE INSPECTION EDGE OF THE BARRIER MUST BE CHECKED REGULARY (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
BRICKWORK OR SIMILAR
DAMP PROOF MEMBRANE
* THIS BARRIER IS PRE-INSTALLED TO THE SLAB FACE BEFORE THE BRICK WORK IS STARTED AND THEN FOLDED DOWN ONTO THE BRICK WORK BELOW THE DAMP PROOF MEMBRANE.
PROTECTANT BARRIER ADHERED TO THE VERTICAL FACE OF THE CONCRETE SLAB WITH ADULETH ADHESIVE SO AS TO FORM A CONTINUOUS UNBROKEN SEAL
40mm
CAVITY
BOTTOM PLATE
FINISHED CONCRETE SLAB HEIGHT
75mm Minimum
GROUND LEVEL
25mm Rebate
CHEMICAL ANCHOR OR CAST IN TYPE SLAB HOLDING DOWN BOLT
SLAB MESH
100mm
REINFORCED CONCRETE SLAB DESIGNED BY AN ENGINEER TO CONFORM TO AS2870-1996 TO BE VIBRATED AND CURED
MASONRY VENEER
STIFFENED RAFT
TYPE SLAB.
MONOLITHIC
CONSTRUCTION
REF AS 2870.1-1996
SELECTED COMPACTED FILL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CAVITY
75mm Minimum
GROUND LEVEL
BOTTOM PLATE
FINISHED CONCRETE SLAB HEIGHT
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CHEMICAL ANCHOR OR CAST IN TYPE SLAB HOLDING DOWN BOLT
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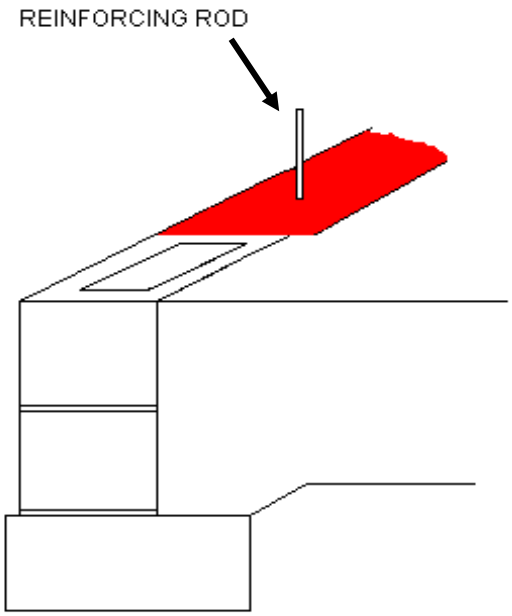
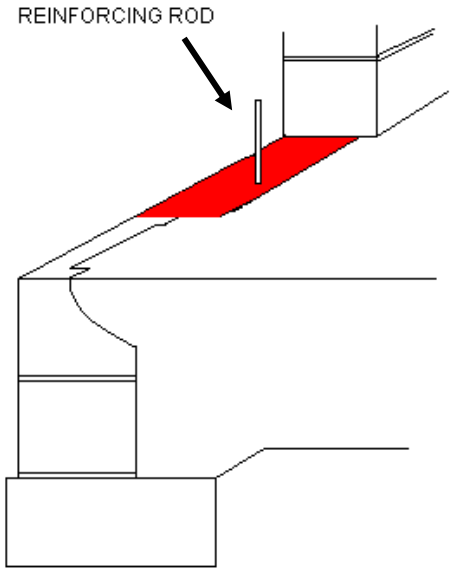
MASONRY VENEER
STIFFENED RAFT
TYPE SLAB.
MONOLITHIC
CONSTRUCTION
REF AS 2870.1-1996
SELECTED COMPACTED FILL

MASONRY BLOCK INSTALLATION



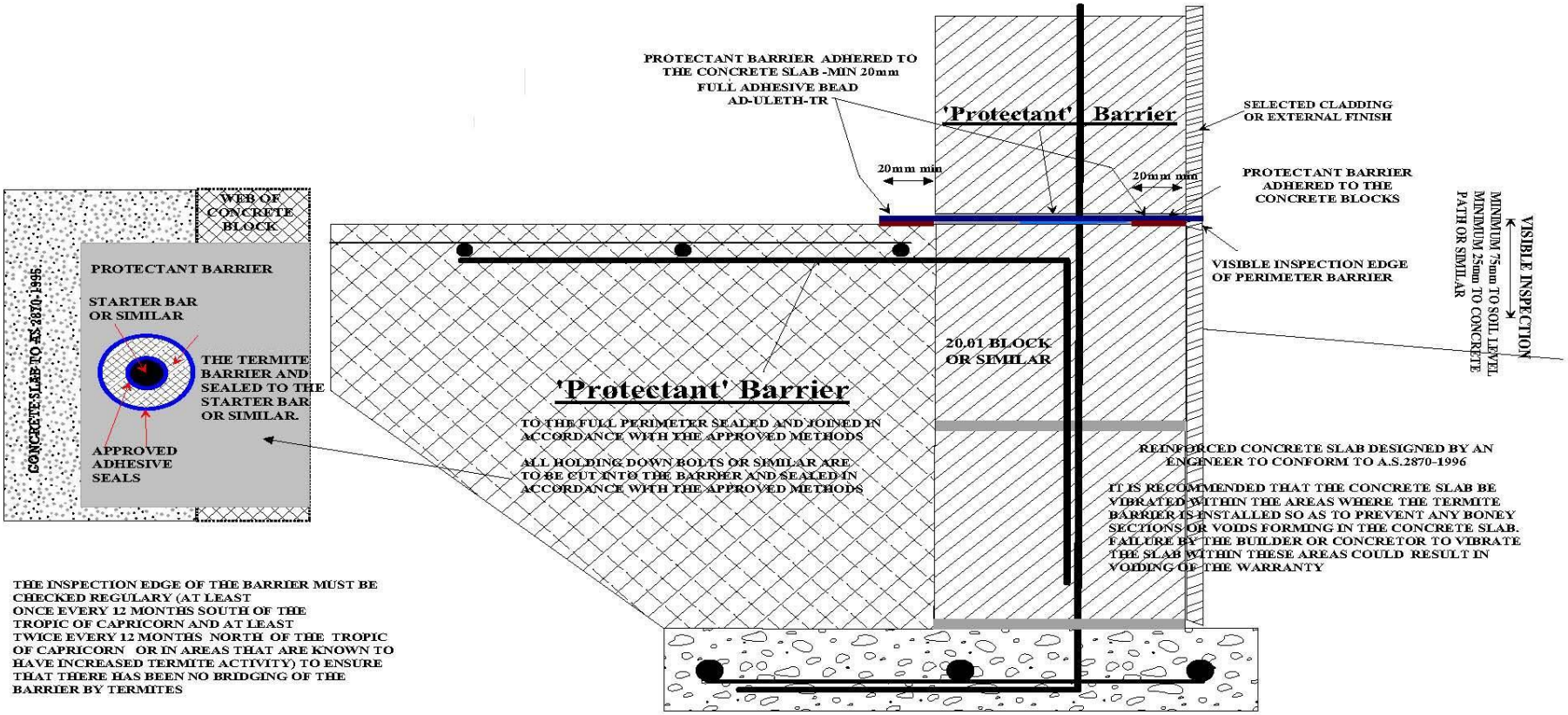
The *Protectant*™ barrier is applied from the outside edge of the blocks to a minimum of 50mm beyond the edge of the slab using ADSOL.
ADULETH may be used on top of the block work if porosity presents a problem. Ensure ADULETH is applied around each reinforcing rod.



Removal of part of the 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



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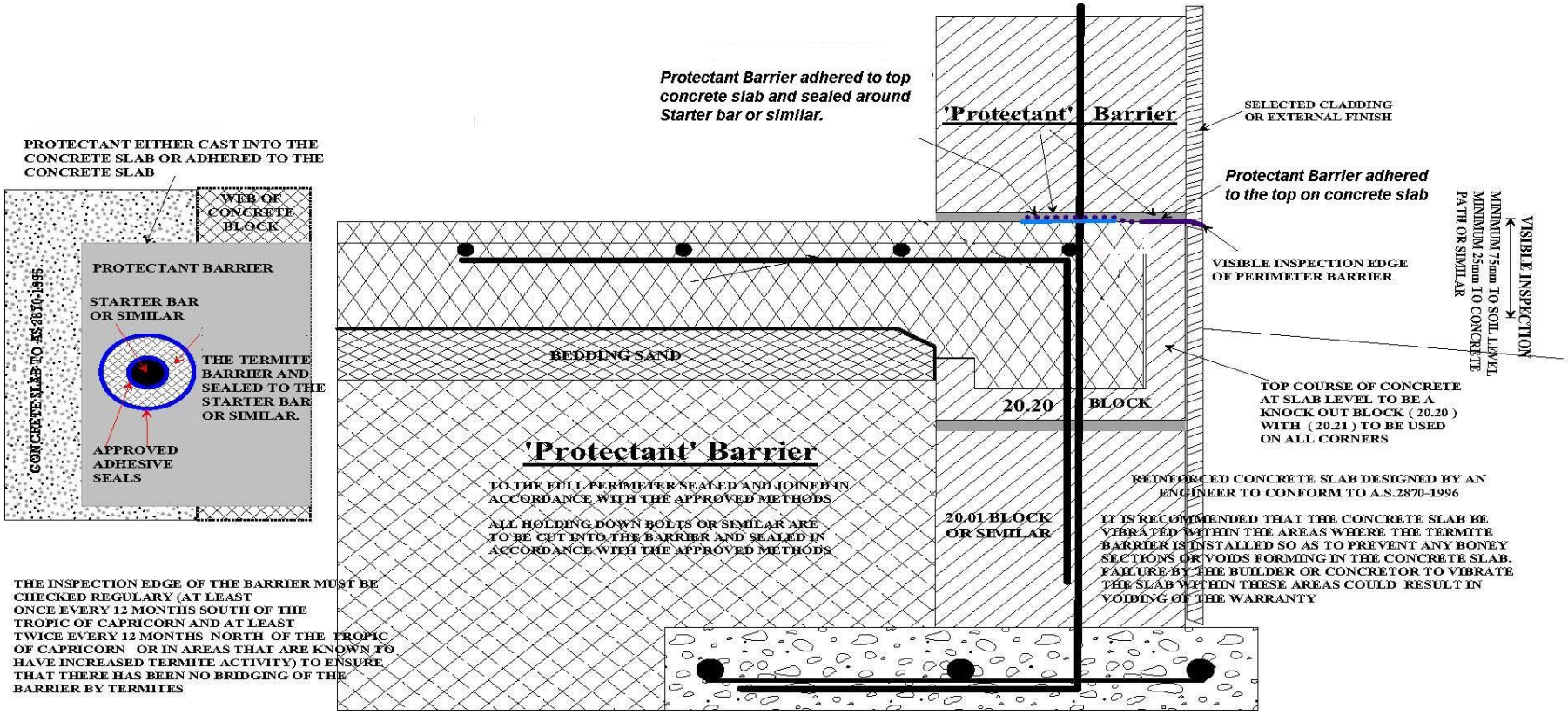
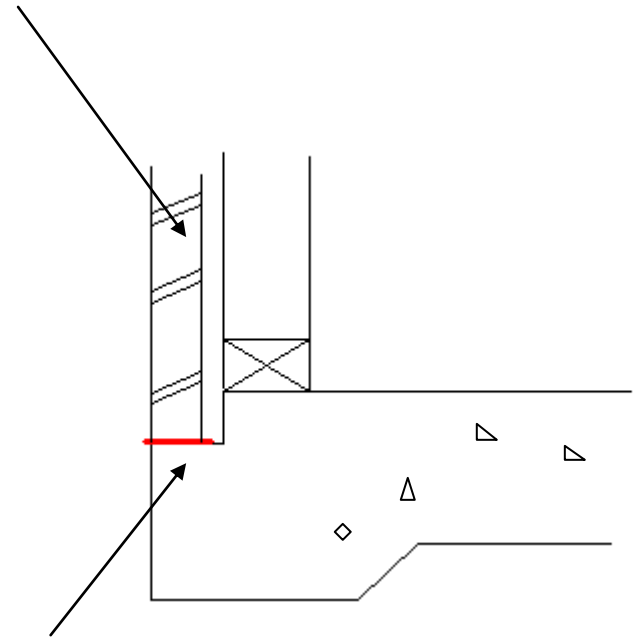
CONCRETE BLOCK CONSTRUCTION
INFILL OR FORMED SLAB



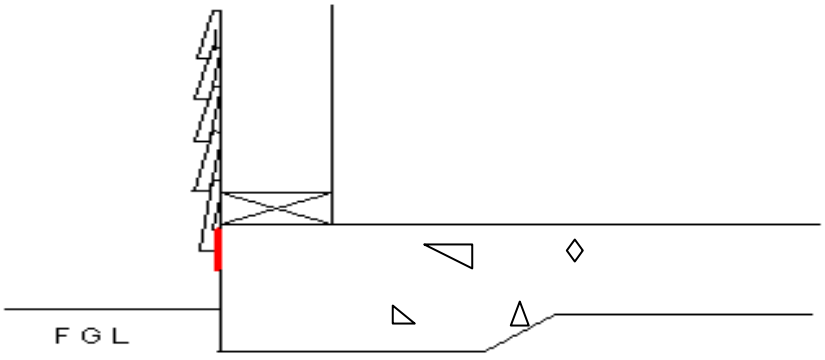
ALTERNATIVE CLADDING SYSTEMS

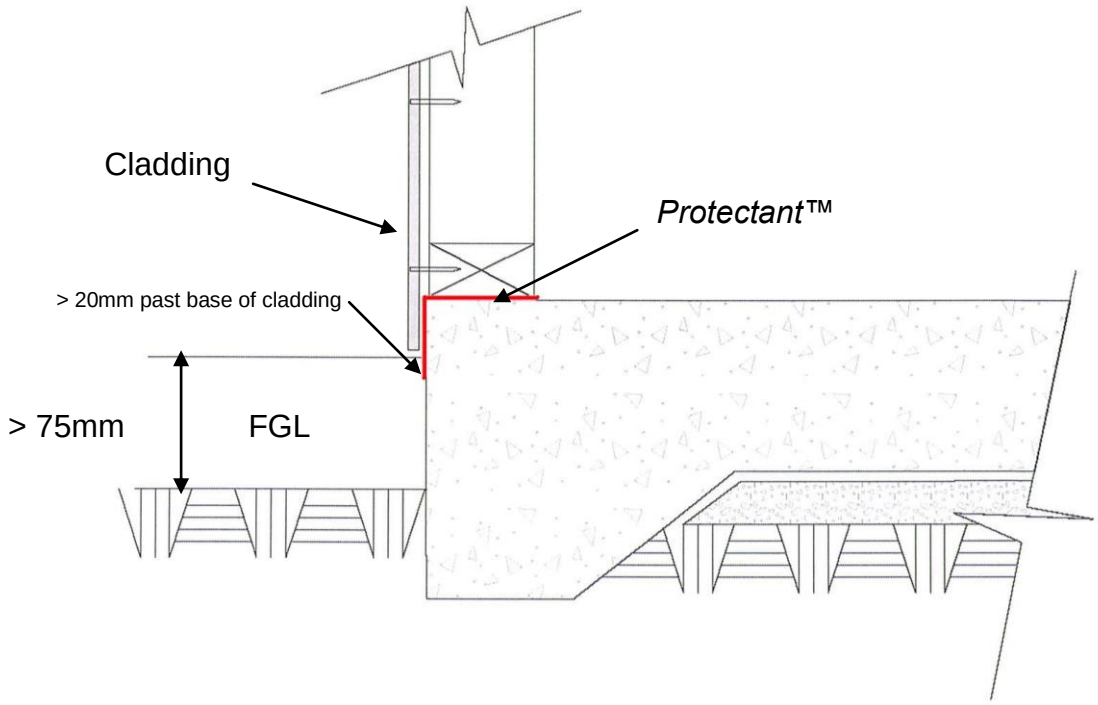
HEBEL PANEL OR SIMILAR

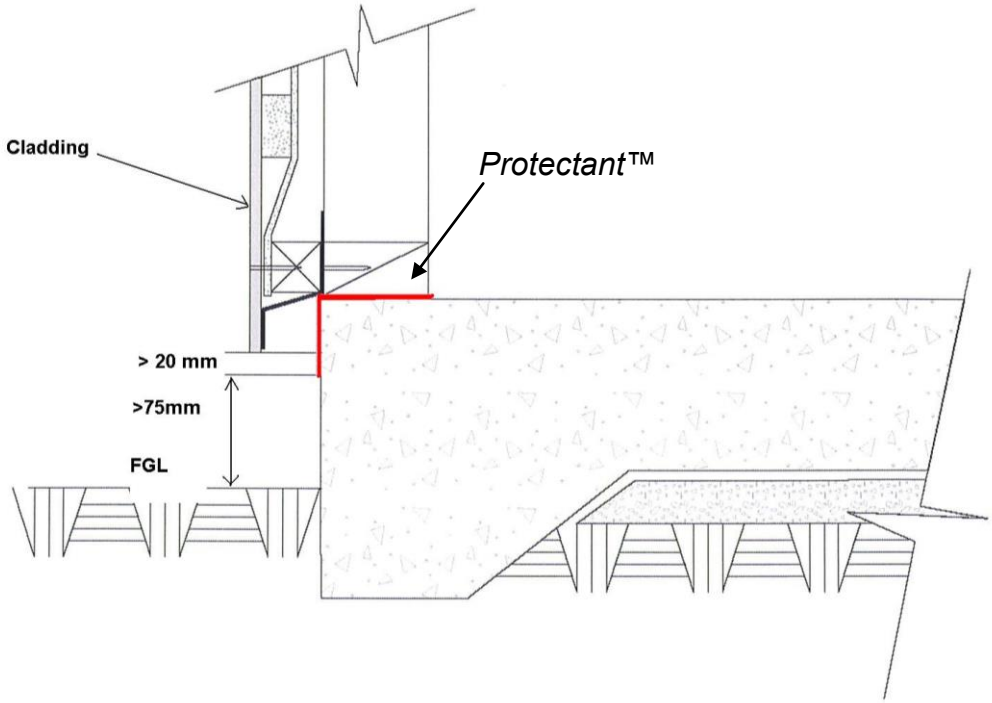


***Protectant*™ TERMITE BARRIER INSTALLED TO SUIT PANEL FINISH e.g. RENDER/BAGGING/PAINT**

TIMBER CLADDING ON AN EXPOSED EDGE SLAB



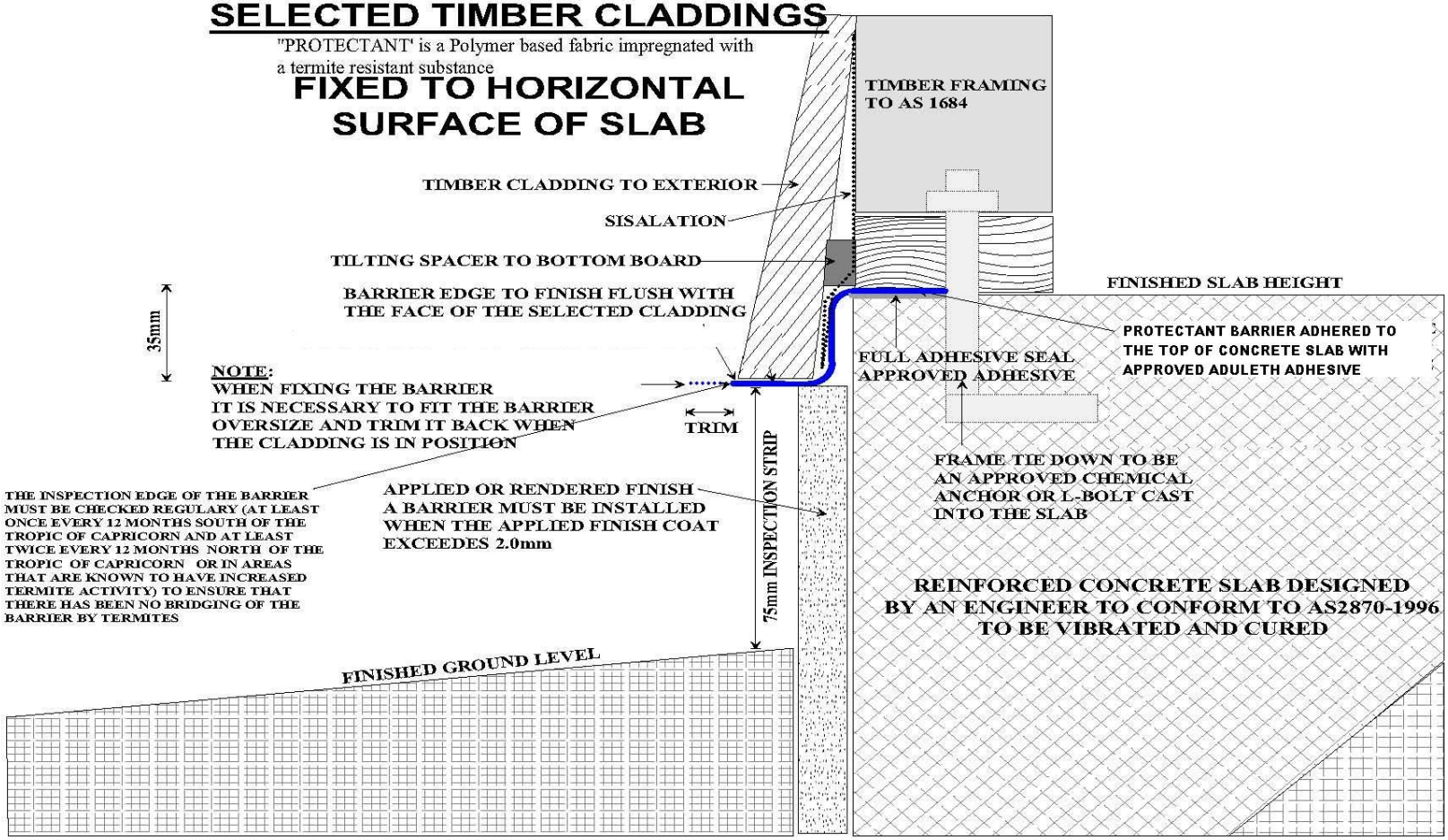

Cladding
Protectant™
> 20mm past base of cladding
> 75mm
FGL


Cladding
Protectant™
> 20 mm
>75mm
FGL

SELECTED TIMBER CLADDINGS

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

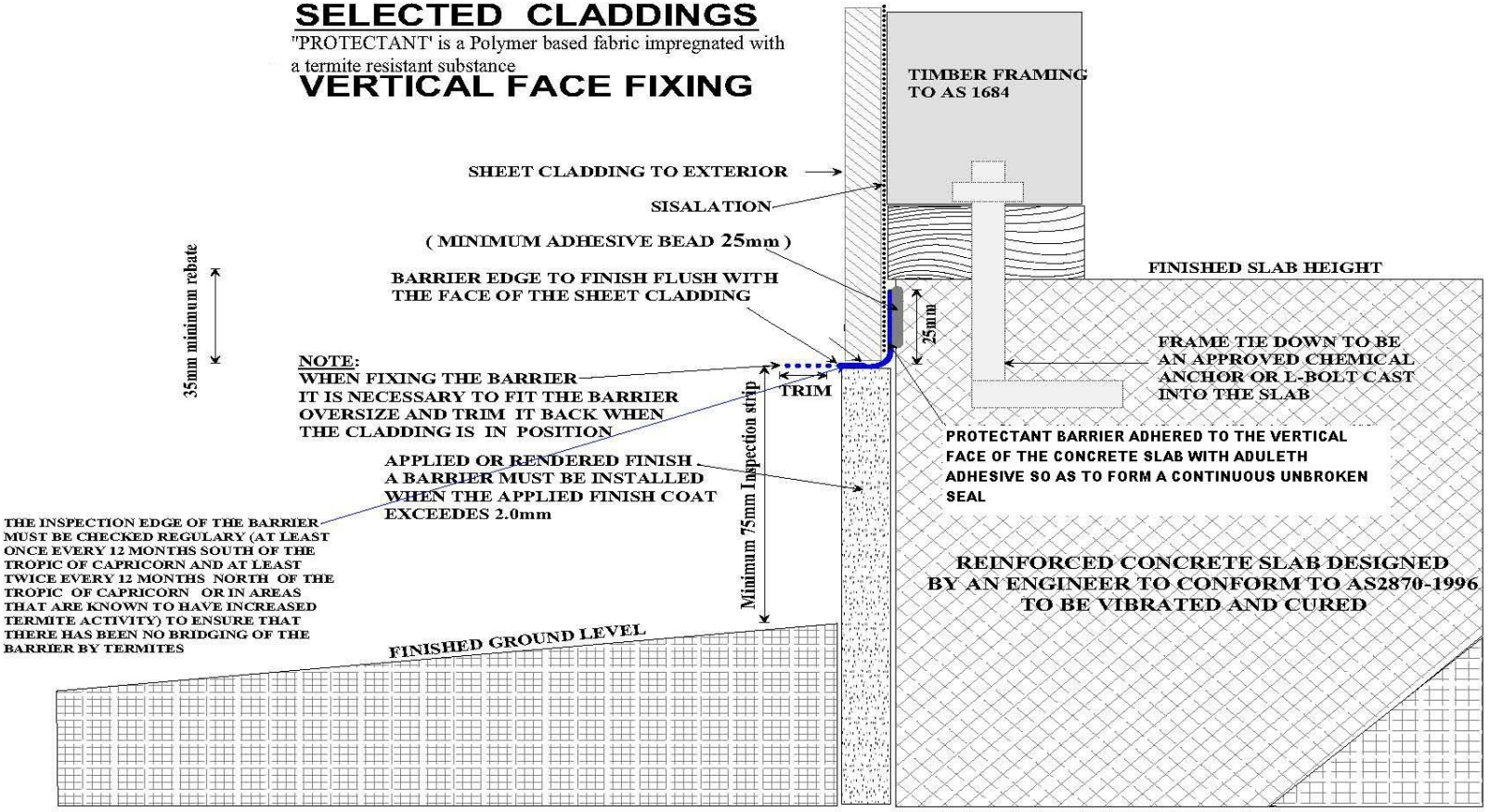
FIXED TO HORIZONTAL SURFACE OF SLAB



SELECTED CLADDINGS

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

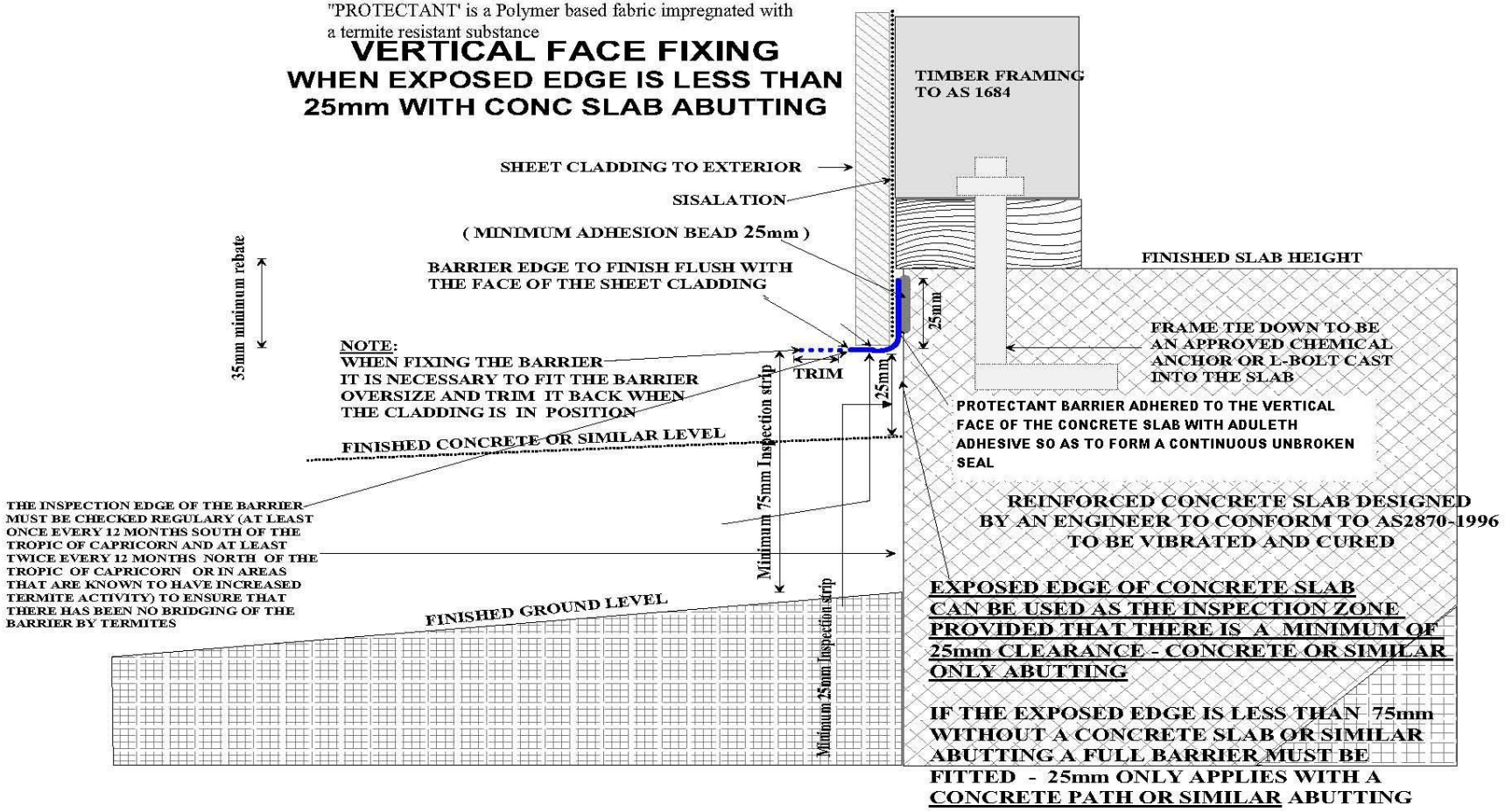
VERTICAL FACE FIXING

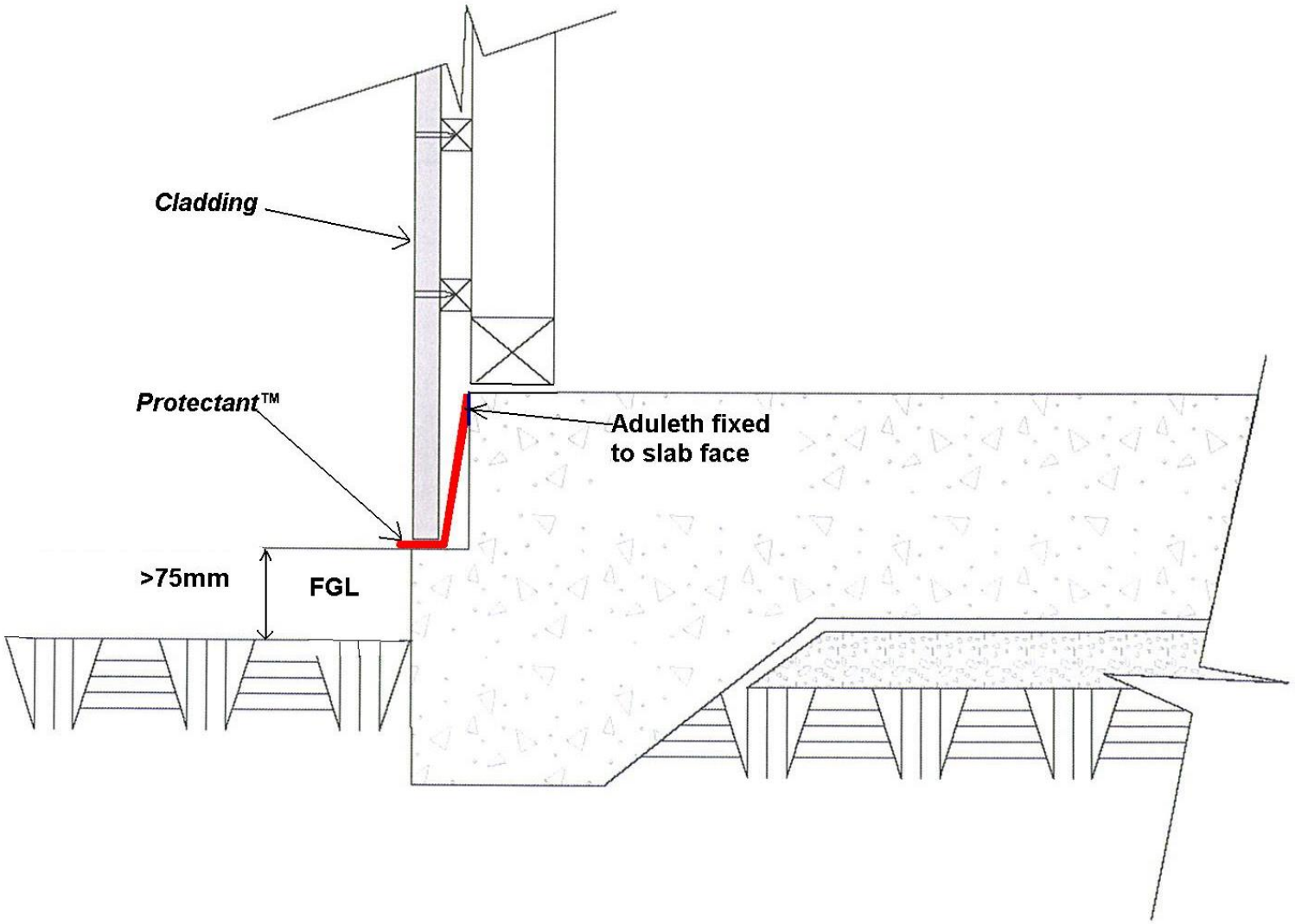


SELECTED CLADDINGS

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

VERTICAL FACE FIXING
WHEN EXPOSED EDGE IS LESS THAN 25mm WITH CONC SLAB ABUTTING



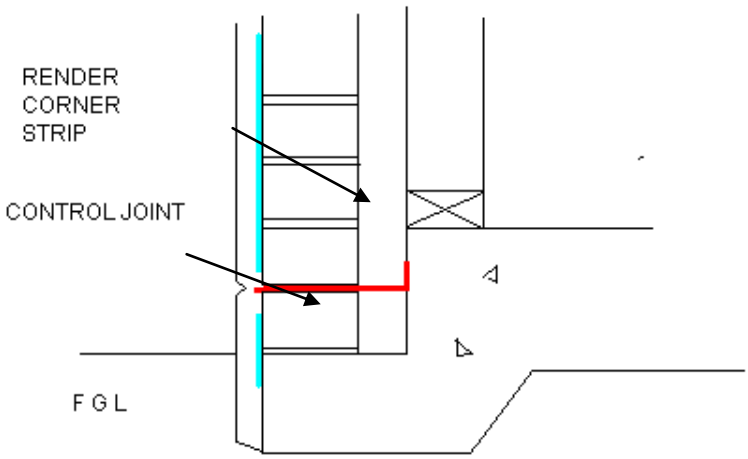

Cladding
Protectant™
Aduleth fixed
to slab face
>75mm
FGL

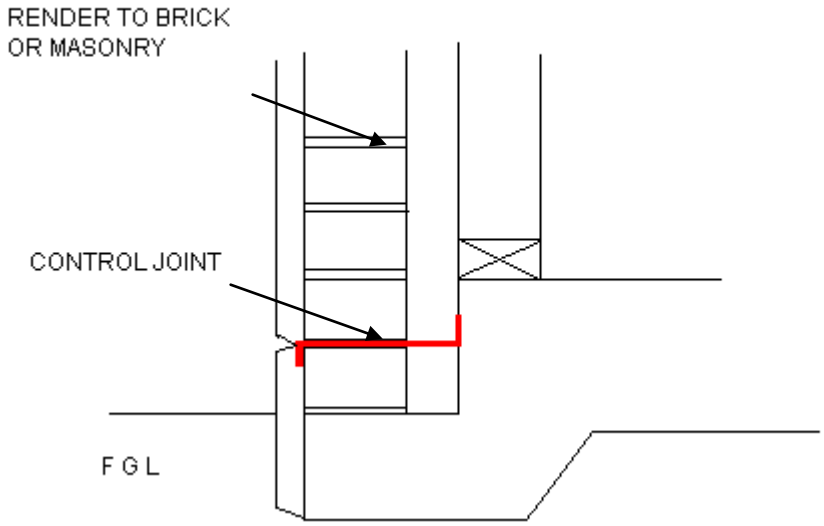
PROTECTION OF RENDERED BRICK – MASONRY

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 2.0mm.

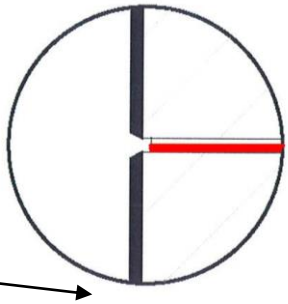
In cases where a thin coating is to be used, i.e. bagging or a skim coat, the barrier is to finish flush with the brick or masonry face.

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

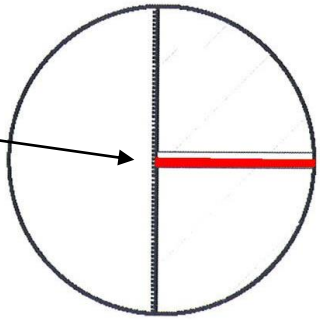




Note:
Only Rendered Bricks or Blocks require a strike joint.



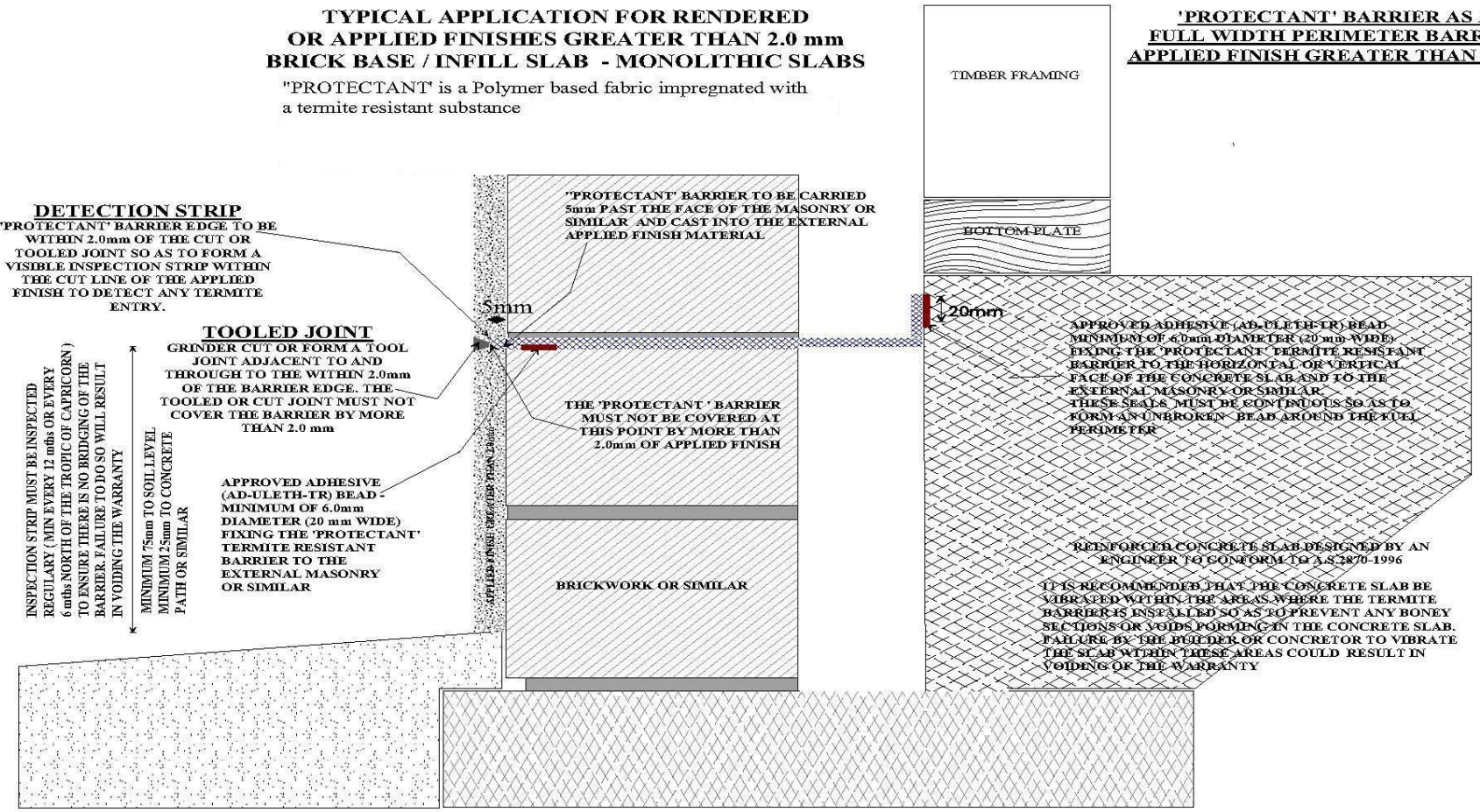
Bagged Bricks or Blocks <u>do not</u> Require a strike joint



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 AS A FULL WIDTH PERIMETER BARRIER APPLIED FINISH GREATER THAN 2.0mm

PROTECTANT BARRIER

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

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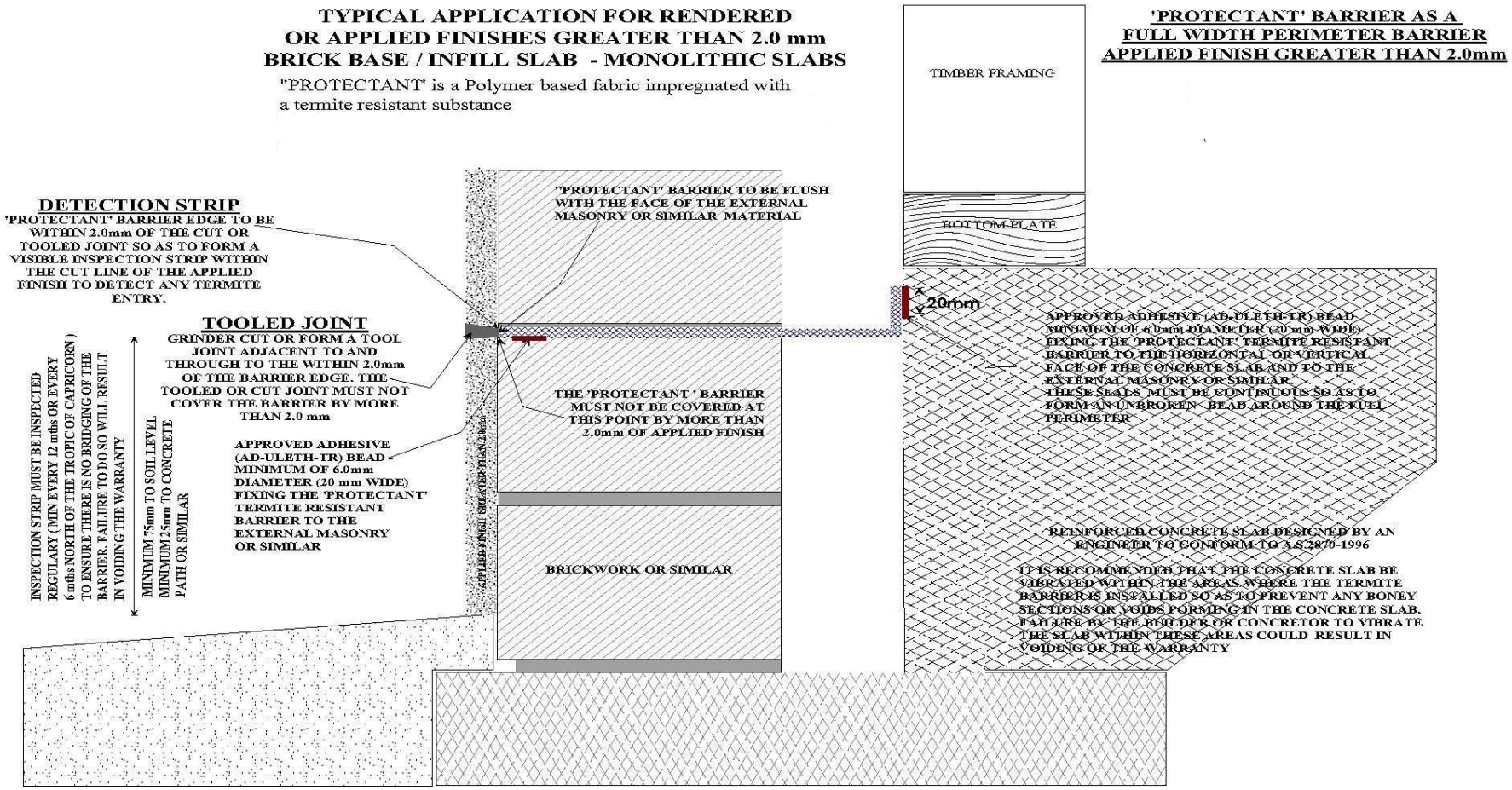

'PROTECTANT' BARRIER AS A FULL WIDTH PERIMETER BARRIER APPLIED FINISH GREATER THAN 2.0mm

PROTECTANT BARRIER

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

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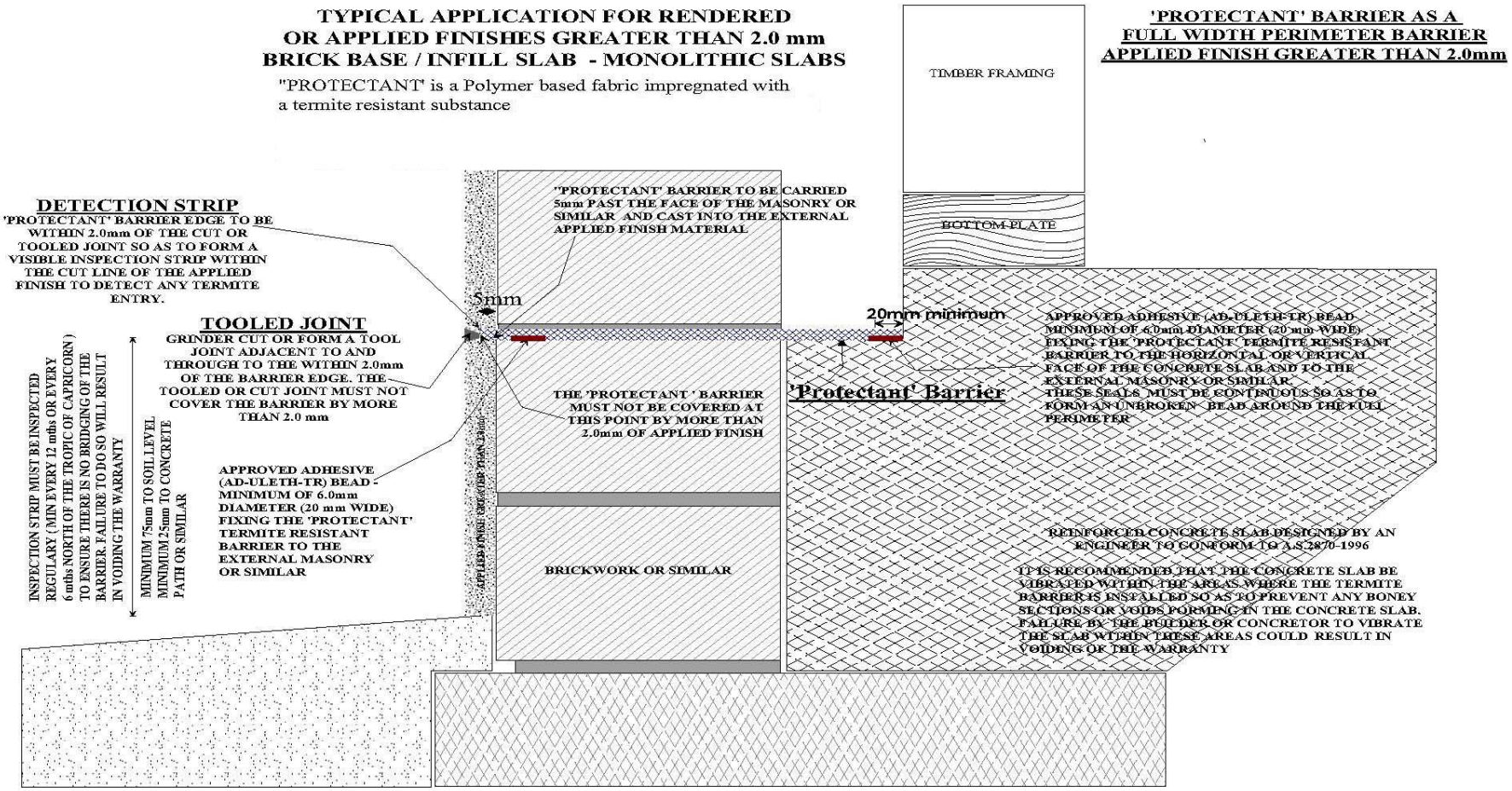
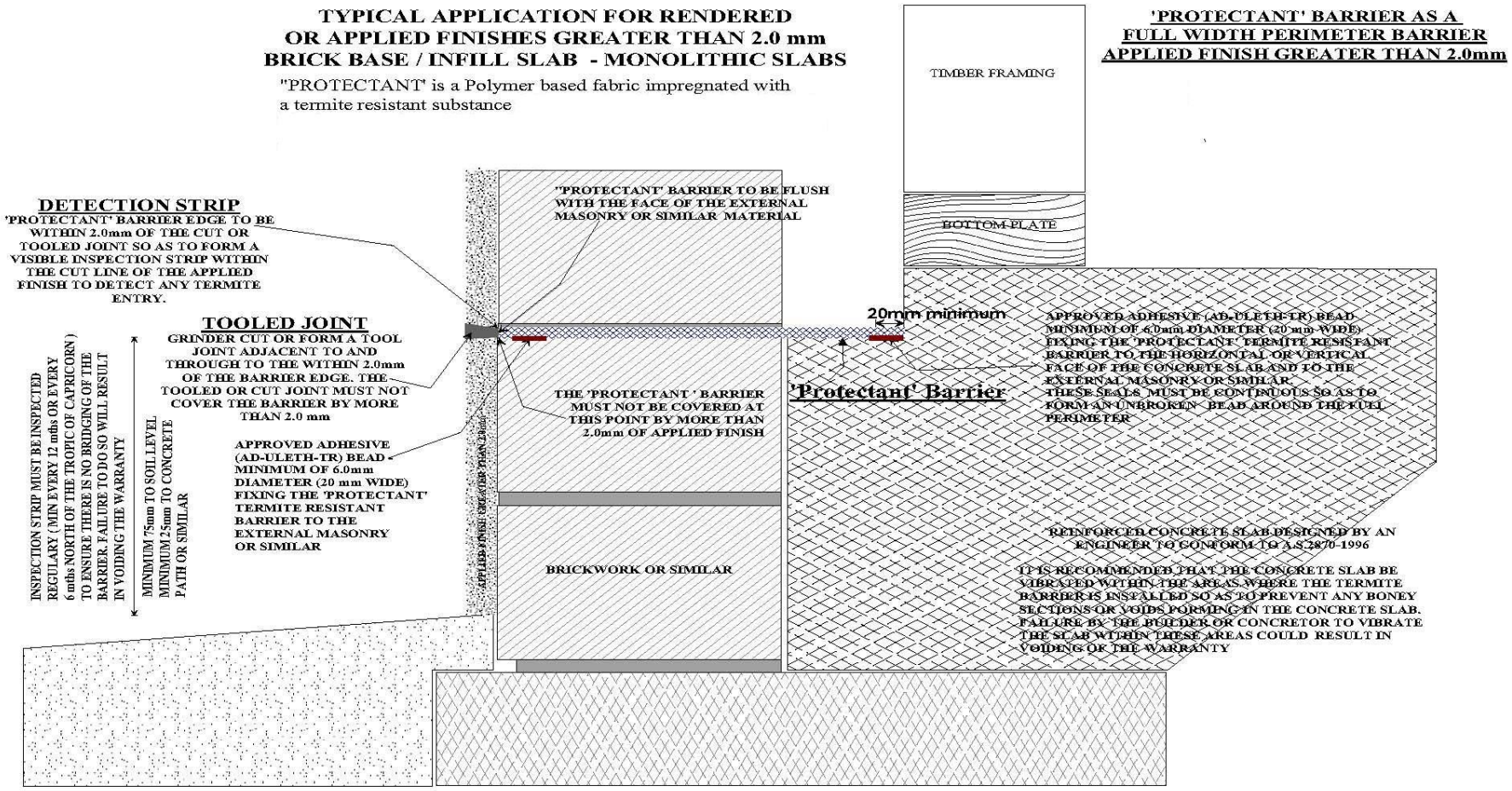


'PROTECTANT' BARRIER AS A FULL WIDTH PERIMETER BARRIER APPLIED FINISH GREATER THAN 2.0mm

PROTECTANT BARRIER

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

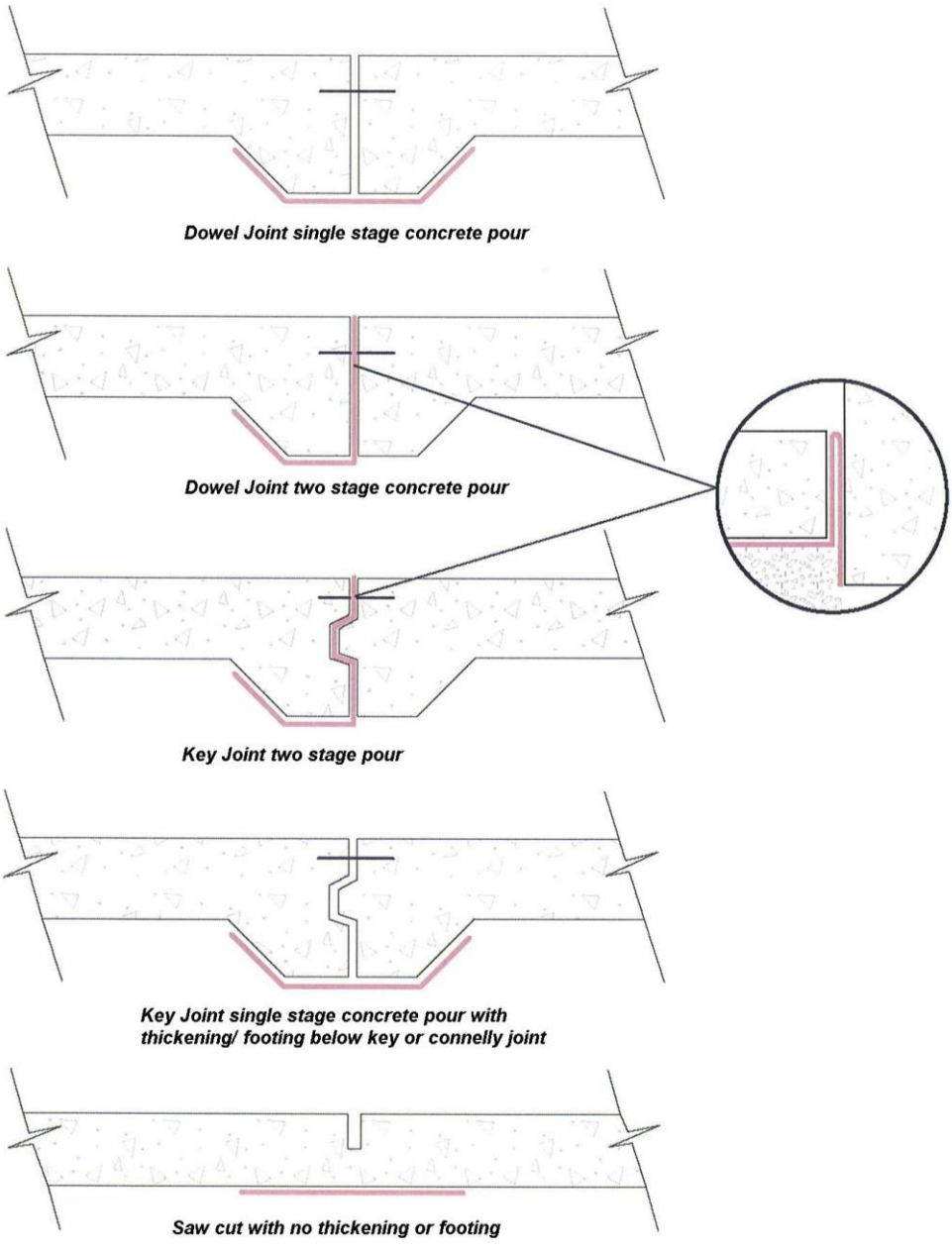
"PROTECTANT' is a Polymer based fabric impregnated with a termite resistant substance



'PROTECTANT' BARRIER AS A FULL WIDTH PERIMETER BARRIER APPLIED FINISH GREATER THAN 2.0mm

Critical Joints

- Install a minimum 250mm wide strip of *Protectant*™ termite barrier immediately under the construction joint by adhering it to the moisture membrane.
- Ensure that all joins are protected using the folded *Protectant*™ Termite Barrier.



Dowel Joint single stage concrete pour

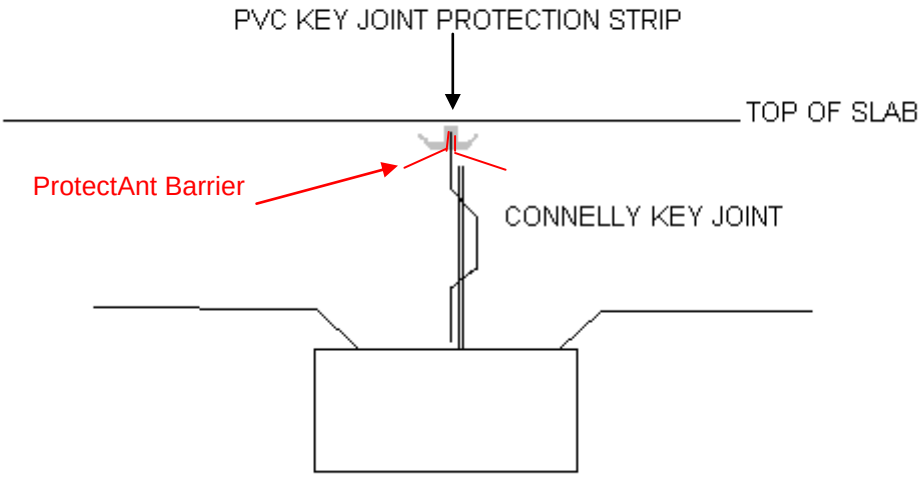
Dowel Joint two stage concrete pour

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 JOINTS

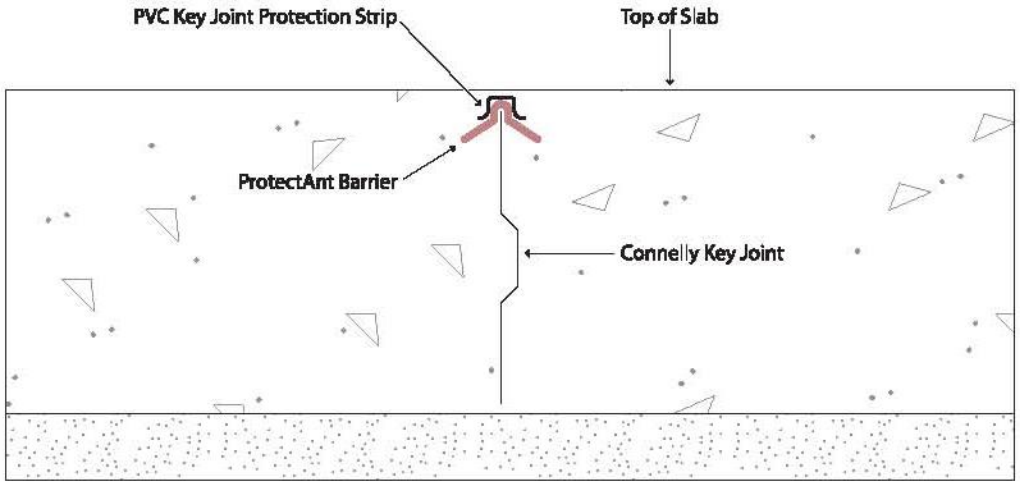


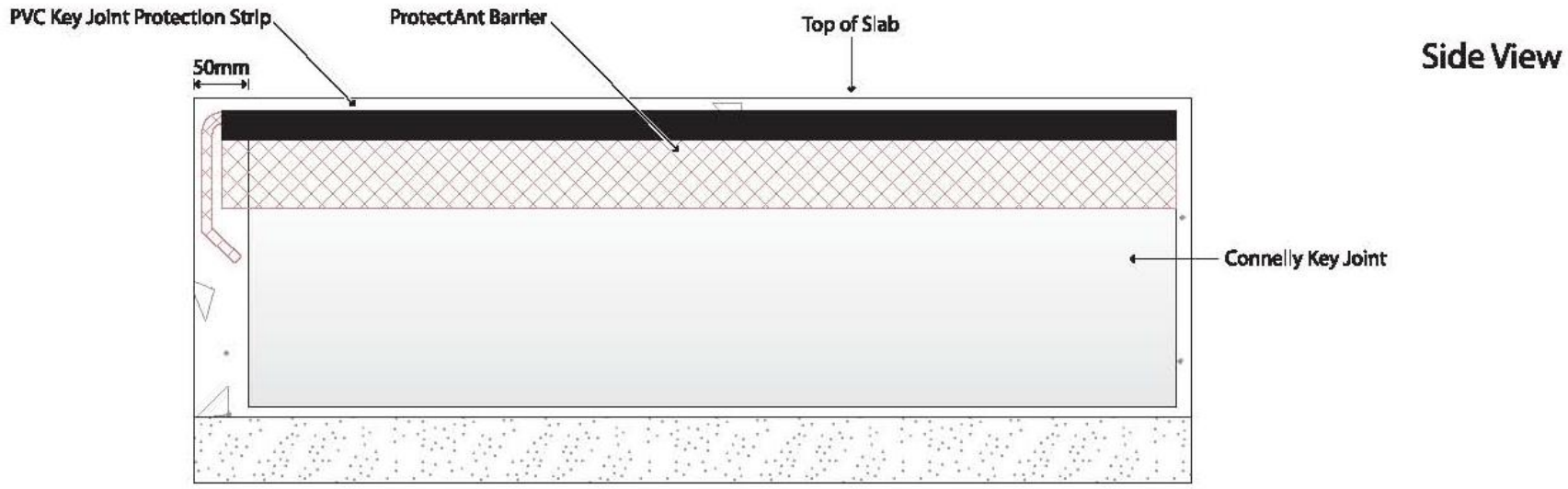
Control joint protection is fitted to the top edge of the Connelly key section, using a sheet of *ProtectAnt*™ Termite Barrier, then a length of the plastic Connelly key joint "Tee" section is fitted over the *ProtectAnt*™ to hold all in place.

Connelly Key Joints.

Drawing No.

Front View

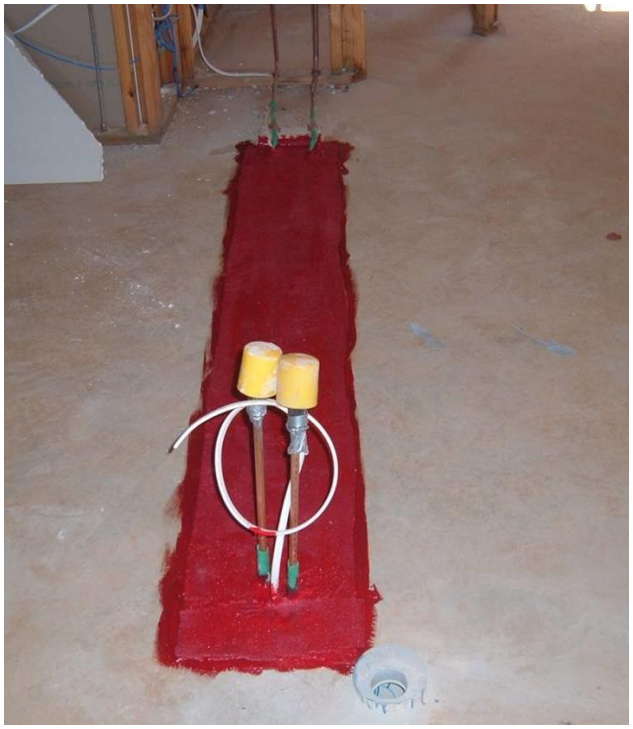




The Finish will have the barrier encapsulated in the slab and the rebait or the slab edge face. Therefore as or when the control joint cracks termites can not get past the *ProtectAnt*™ barrier.

Post concrete pour and slab repairs.

Control joint protection can be applied to the top of the slab provided no interference is caused to either floor covering or wet seal applications.



Typical Slab Repair

Measure 110mm either side of the Cut out slab crack and apply ADSOL adhesive not more than 500mm at a time to the slab to ensure that the adhesive does not start to dry and form a skin preventing proper adhesion.
After the *Protectant*™ Termite Barrier has been fully installed use the ADSOL adhesive on both side of the Protectant™ edges to feather away any sharp edges that may catch on any timbers and fittings being moved across the slab.
Floor finish can be fixed directly over this repair with no problem.

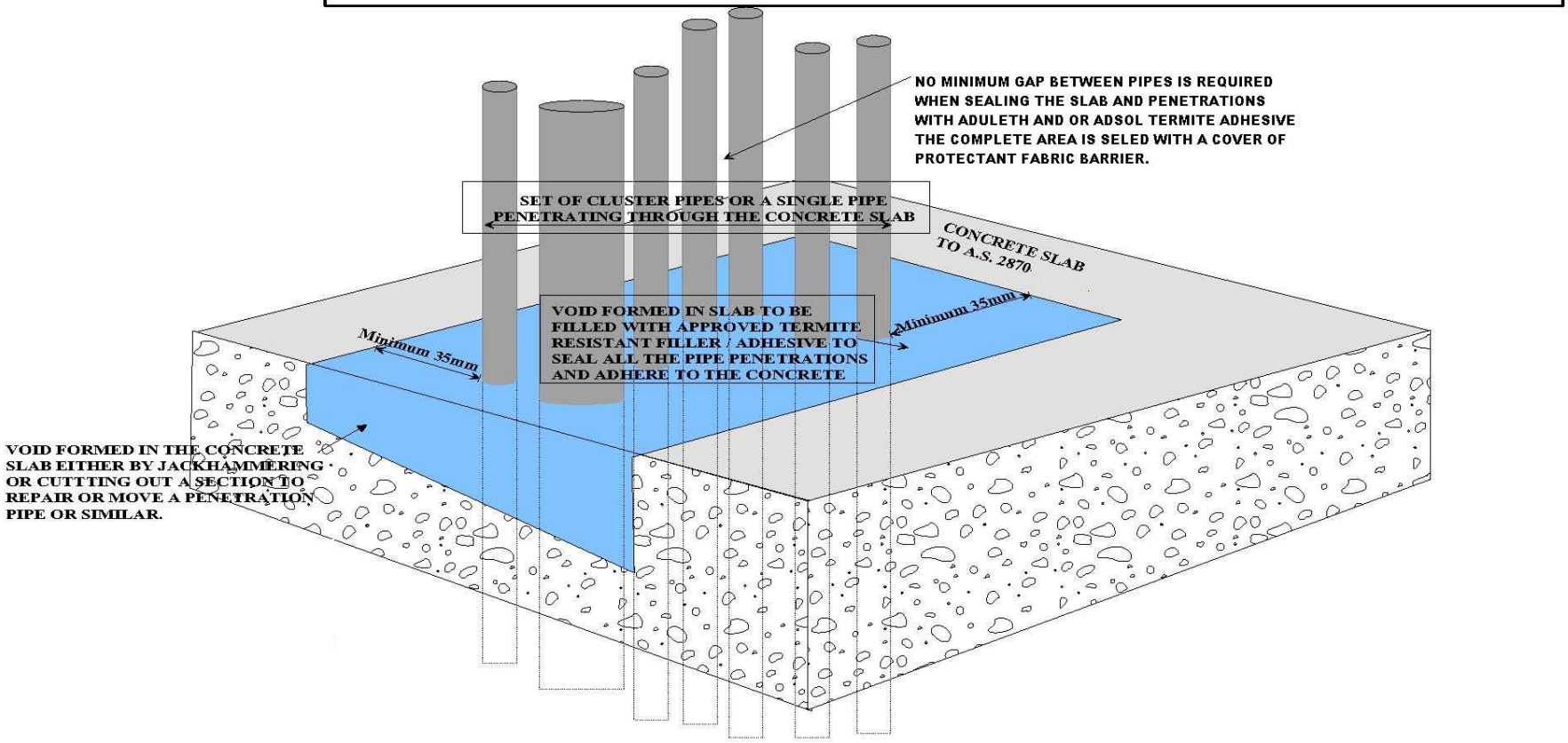
These are usually required due to the incorrect positioning of a pipe prior to the slab pour or a slab break out caused by a frame anchoring bolt or nail. Check for these prior to installing the perimeter barrier.

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

In areas difficult to access, it may be advisable to apply a liberal coat of ADSOL adhesive to either flush out loose particles or bond them to the slab prior to applying the ADULETH adhesive.

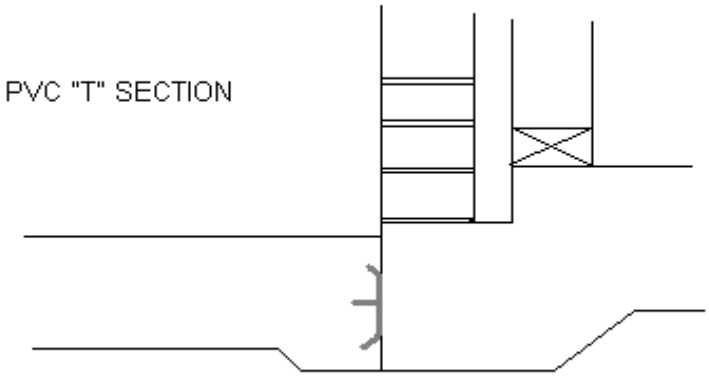
When certain the area to be repaired is sufficiently clean, ADULETH can be applied to the surface of the slab prior to installing the termite barrier. Be careful to press the barrier firmly into the adhesive to ensure there are no voids.

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



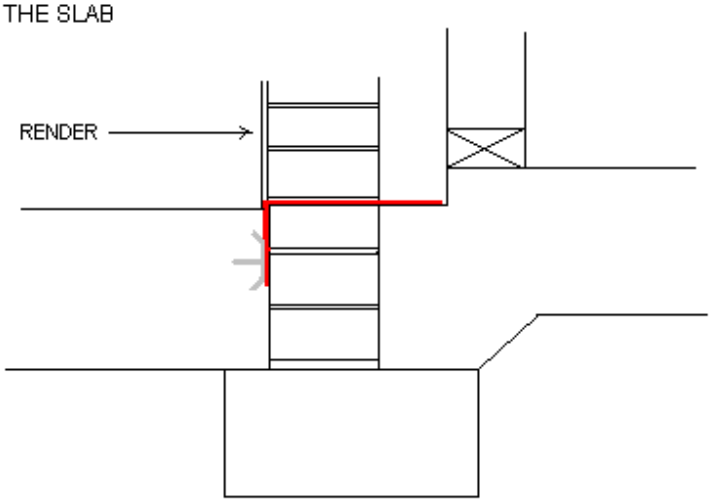
CONSTRUCTION JOINTS

ABUTTING BARRIERS

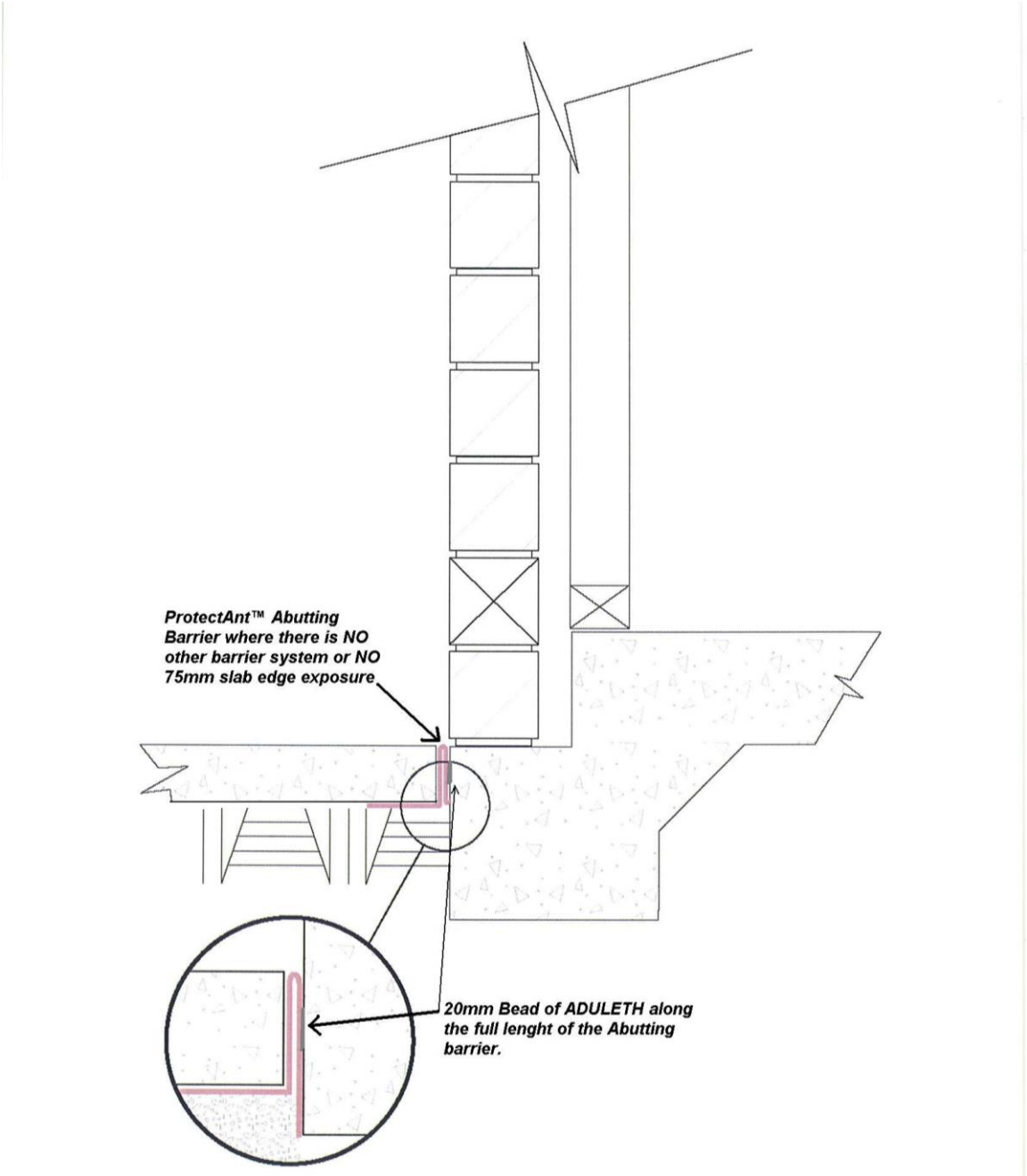


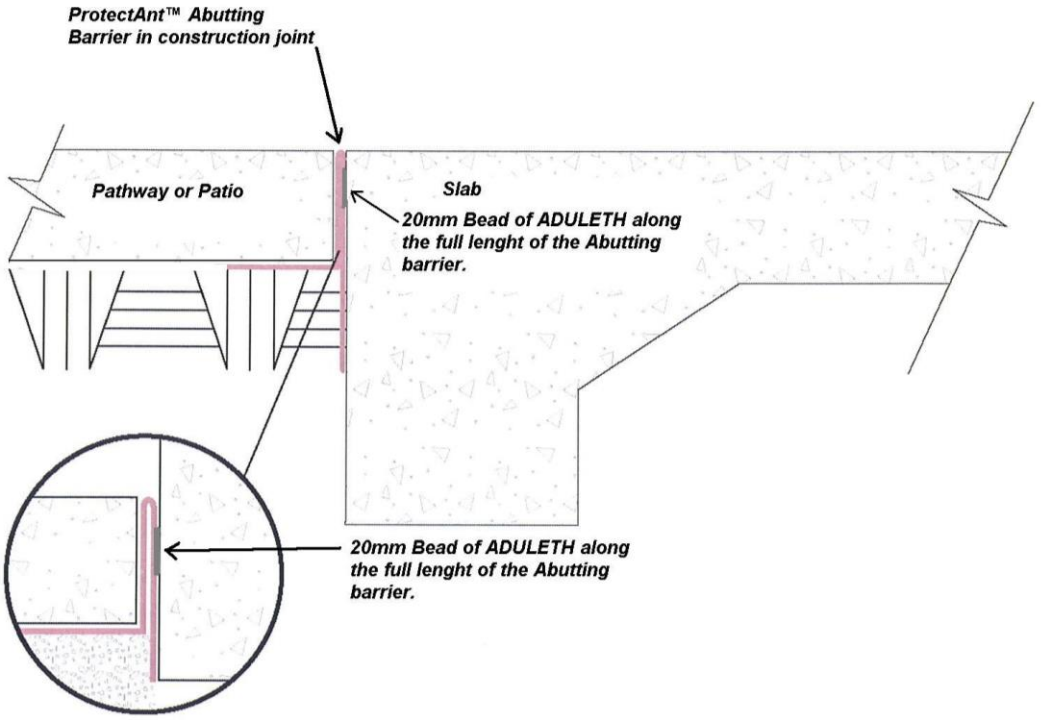
PVC T section used as secondary barrier where an exposed slab edge has been used as the primary barrier.

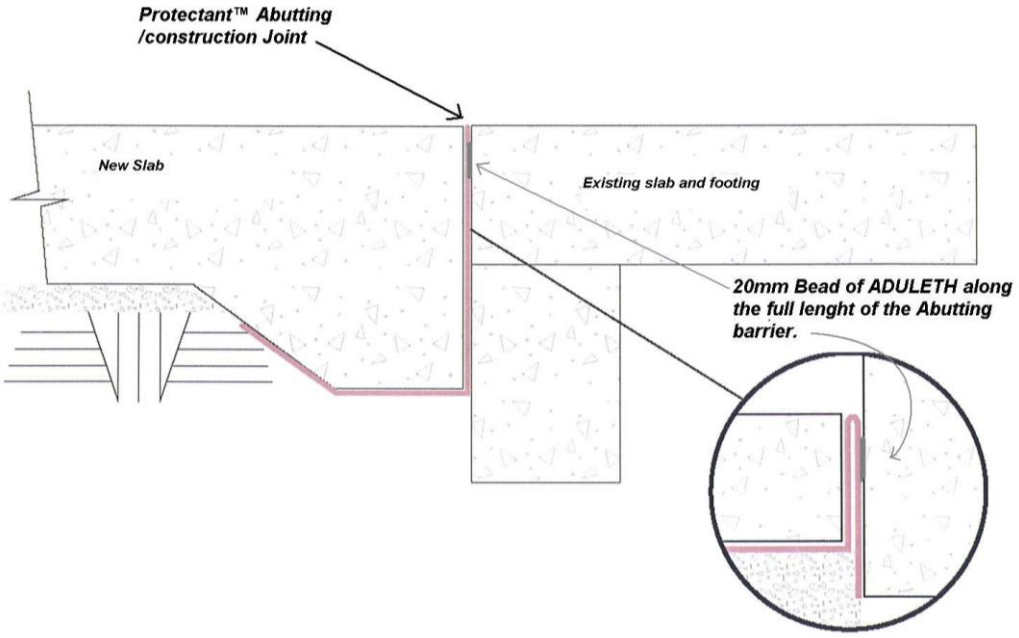
WHEN ABUTTING SURFACES ARE TO BE INSTALLED LESS THAN 30MM BELOW THE TERMITE BARRIER A SECONDARY BARRIER IS REQUIRED BY EXTENDING THE BARRIER OR INSTALLING A PVC "T" PIECE TO THE SLAB

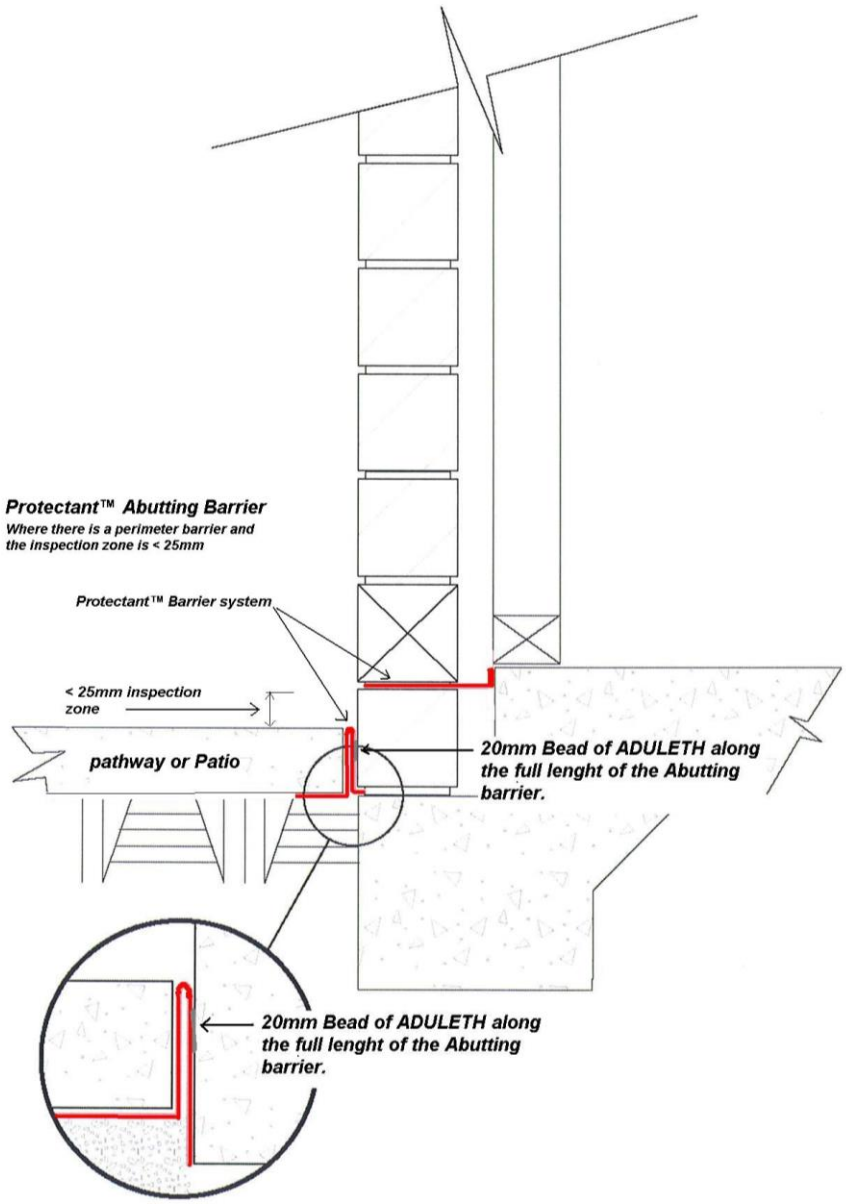


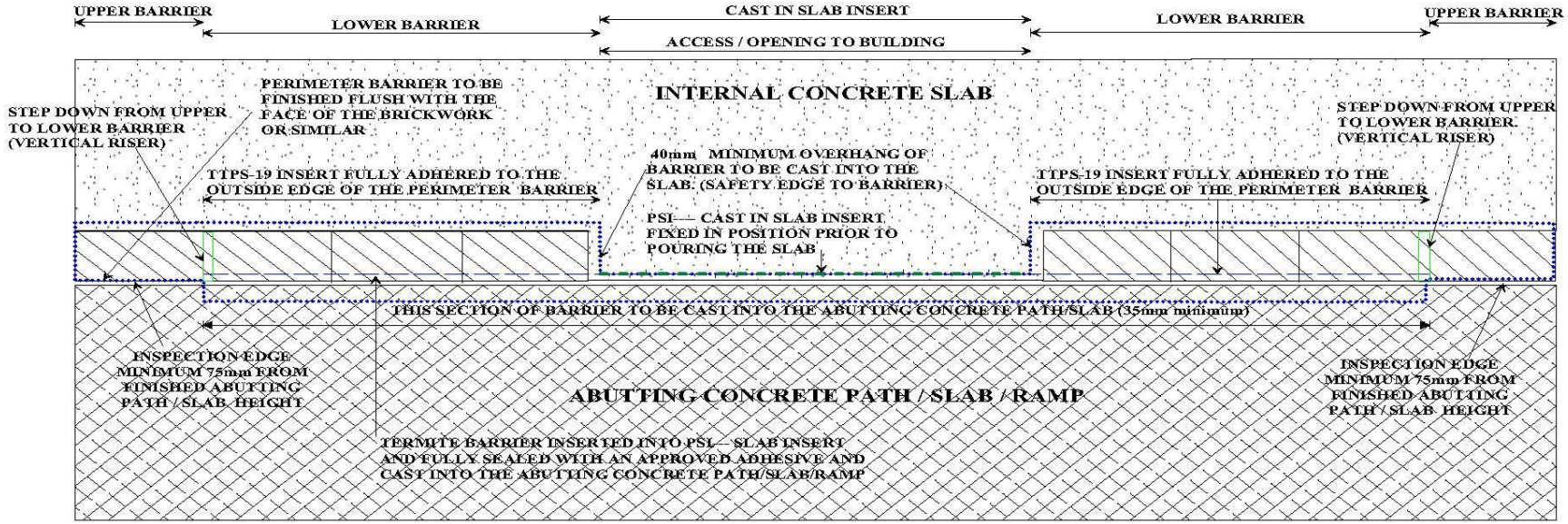
PVC T section used as secondary barrier where a primary barrier has been installed but the visual clearance is inadequate.


ProtectAnt™ Abutting
Barrier where there is NO
other barrier system or NO
75mm slab edge exposure
20mm Bead of ADULETH along
the full lenght of the Abutting
barrier.


ProtectAnt™ Abutting
Barrier in construction joint
Pathway or Patio
Slab
20mm Bead of ADULETH along the full lenght of the Abutting barrier.
20mm Bead of ADULETH along the full lenght of the Abutting barrier.

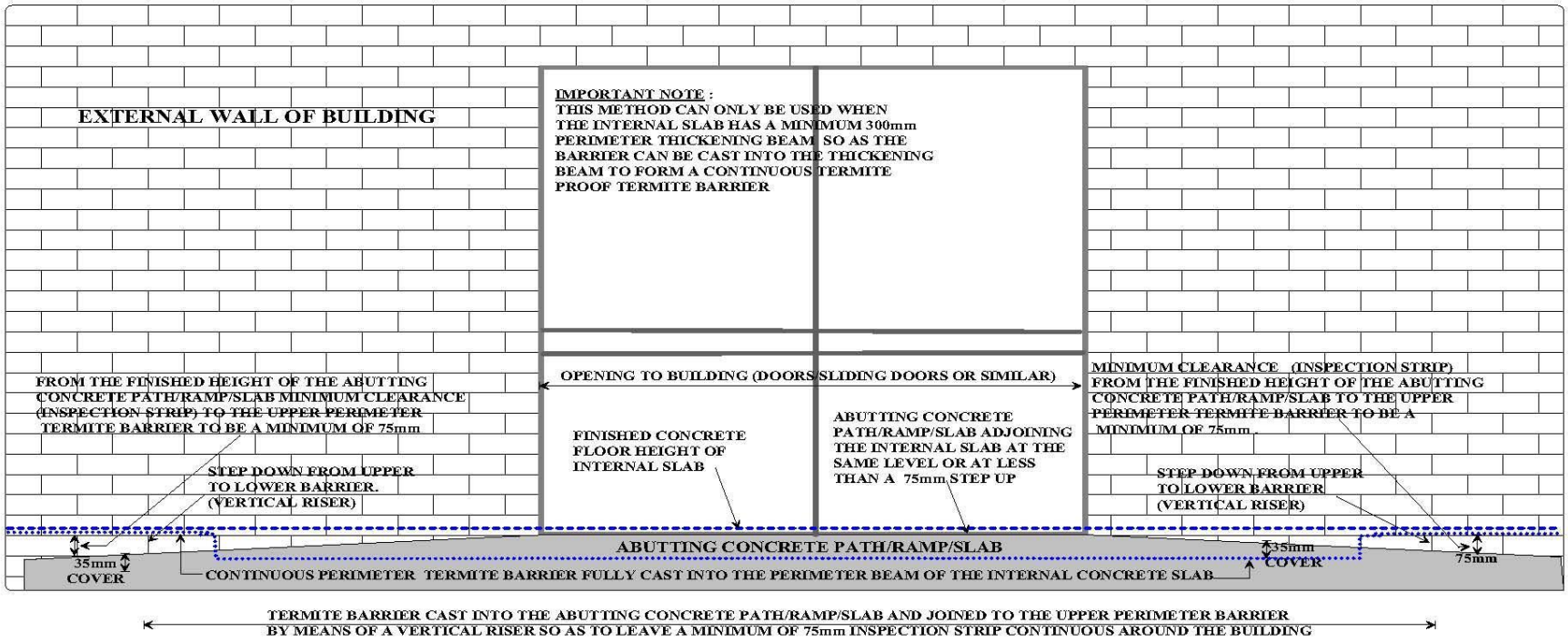

Protectant™ Abutting
/construction Joint
New Slab
Existing slab and footing
20mm Bead of ADULETH along the full lenght of the Abutting barrier.

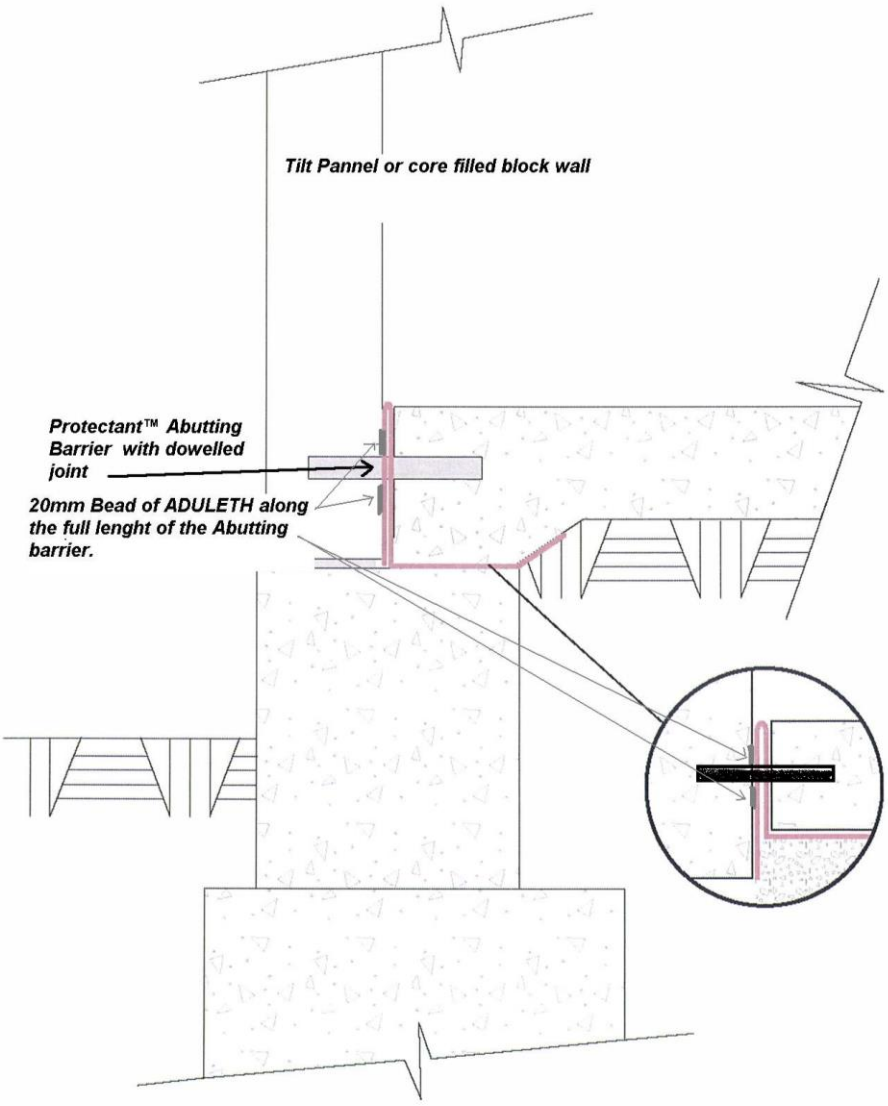

Protectant™ Abutting Barrier
Where there is a perimeter barrier and the inspection zone is < 25mm
Protectant™ Barrier system
< 25mm inspection zone
pathway or Patio
20mm Bead of ADULETH along the full lenght of the Abutting barrier.
20mm Bead of ADULETH along the full lenght of the Abutting barrier.

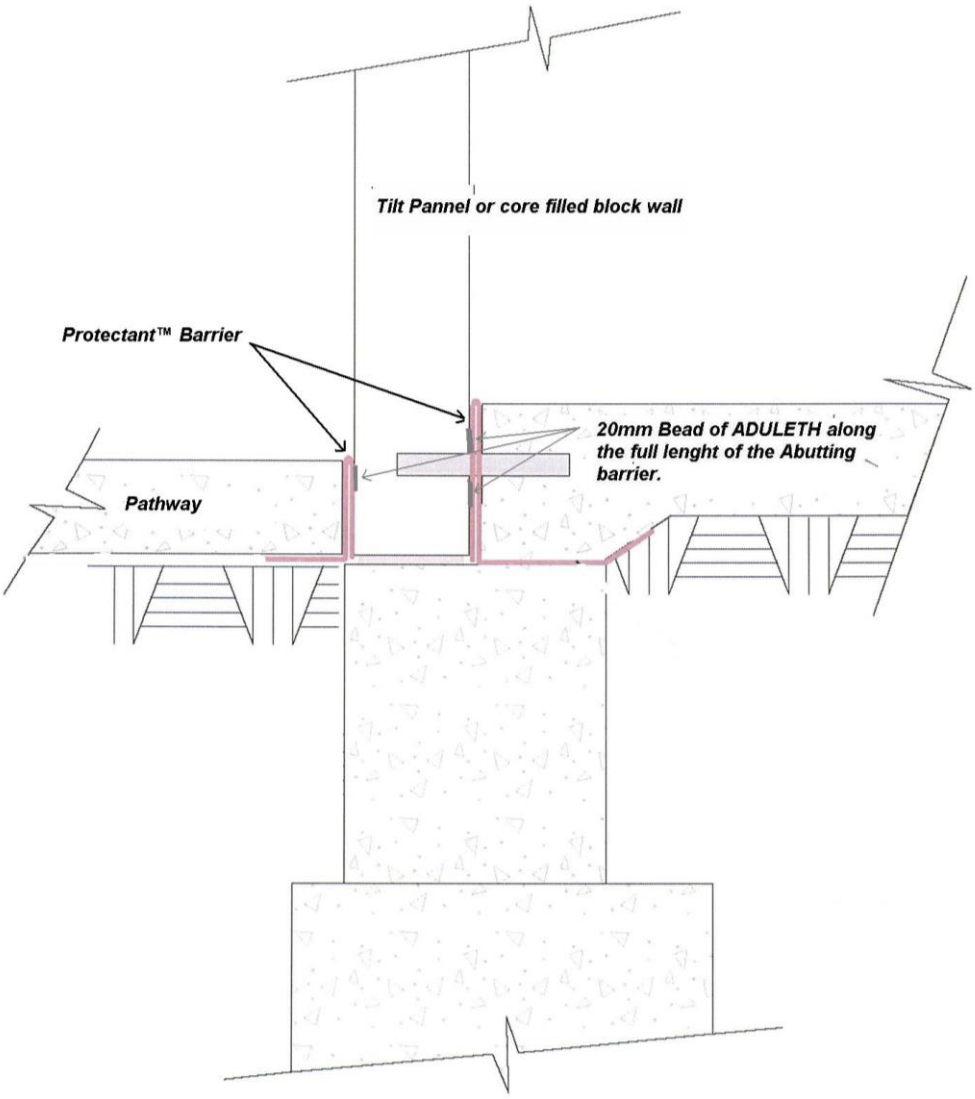


PLAN VIEW OF CONCRETE PATH/ RAMP/SLAB ABUTTING AN INTERNAL CONCRETE SLAB AT THE SAME FINISHED HEIGHT WITHOUT 75mm INSPECTION STRIP TO EXTERNAL

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




Tilt Pannel or core filled block wall
Protectant™ Abutting Barrier with dowelled joint
20mm Bead of ADULETH along the full lenght of the Abutting barrier.


Tilt Pannel or core filled block wall
Protectant™ Barrier
20mm Bead of ADULETH along the full lenght of the Abutting barrier.
Pathway

Protectant™ Wall Sheeting

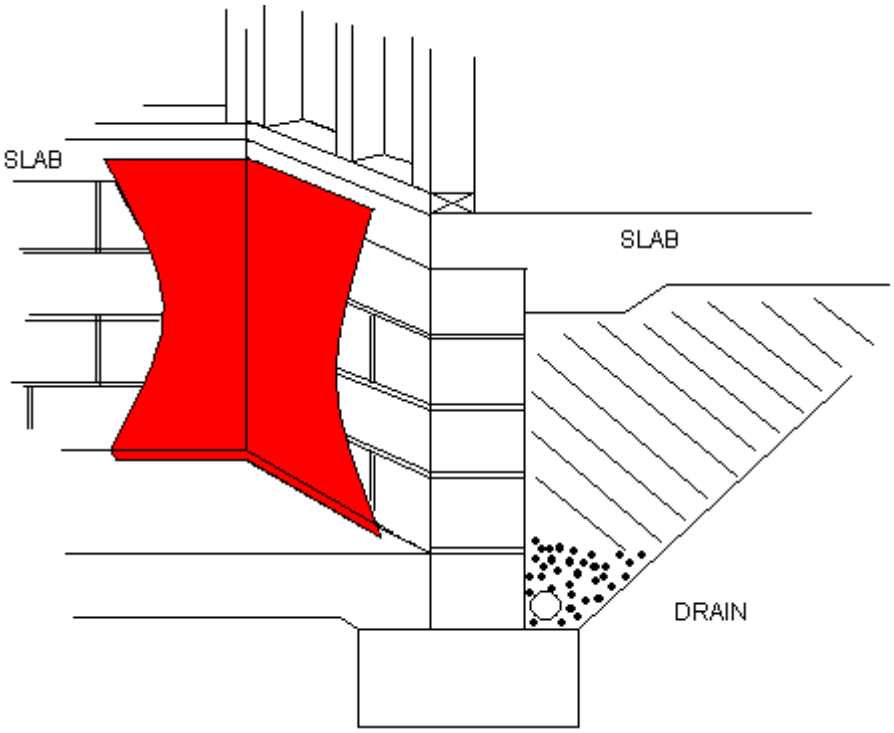
- *Completely sealed to retaining walls*
- *Ease of installation*
- *Special bonding material*
- *Repels and kills termites*

RETAINING WALL SHEETING and STEP DOWNS

Before commencing work, determine from 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.

In the case of direct stick plaster board, the wall will need to be cleaned prior to being fully coated with the ADSOL Adhesive before applying *Protectant*™ Wall Sheet. This will ensure the plaster board will hold to the termite protection.

In the case of battened or framed walls *Protectant*™ may be applied using beads of ADULETH to adhere to the wall and to the 50mm overlap. The builder must indicate frame fixing points and additional ADULETH must be applied to these points to isolate the frame fixings.

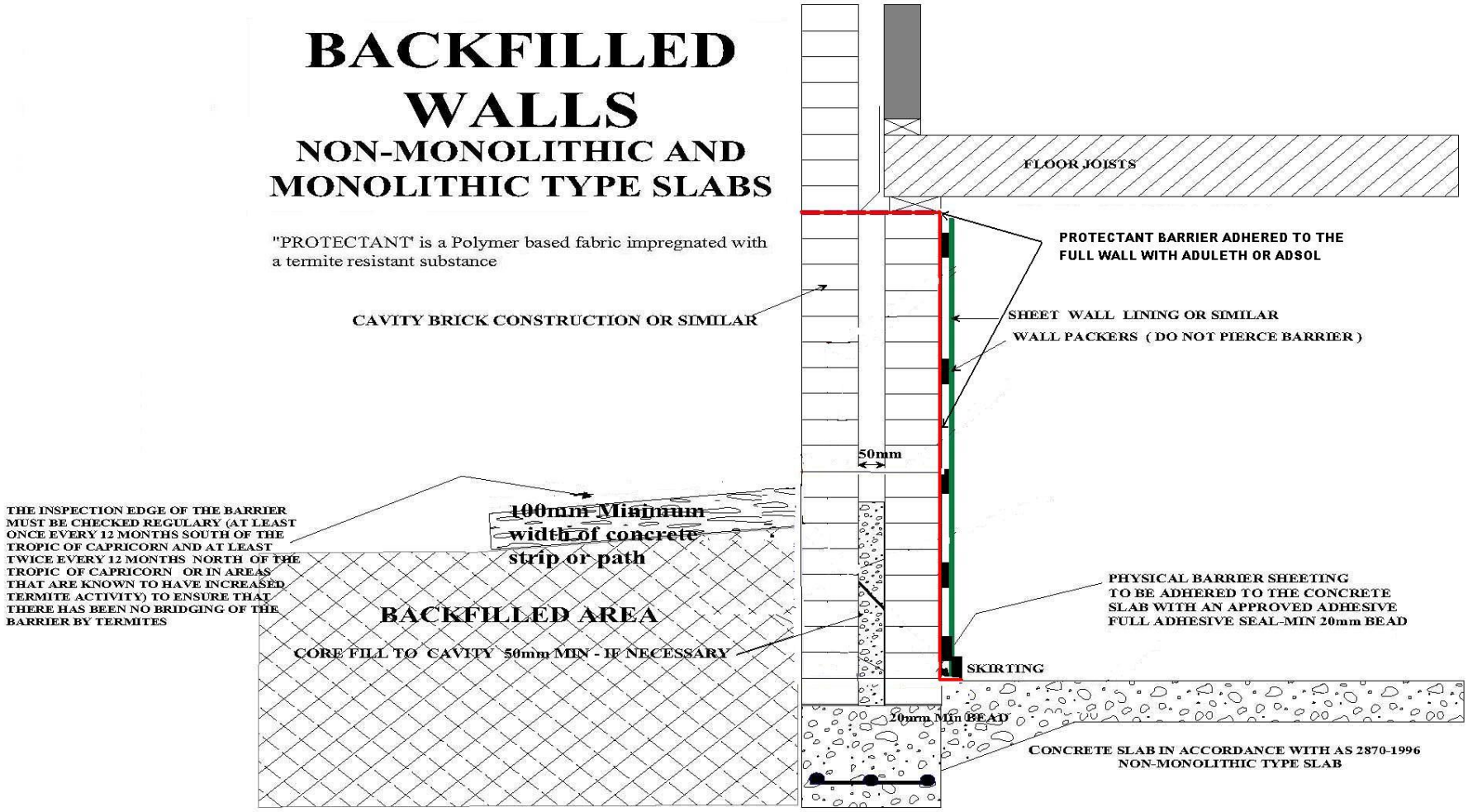


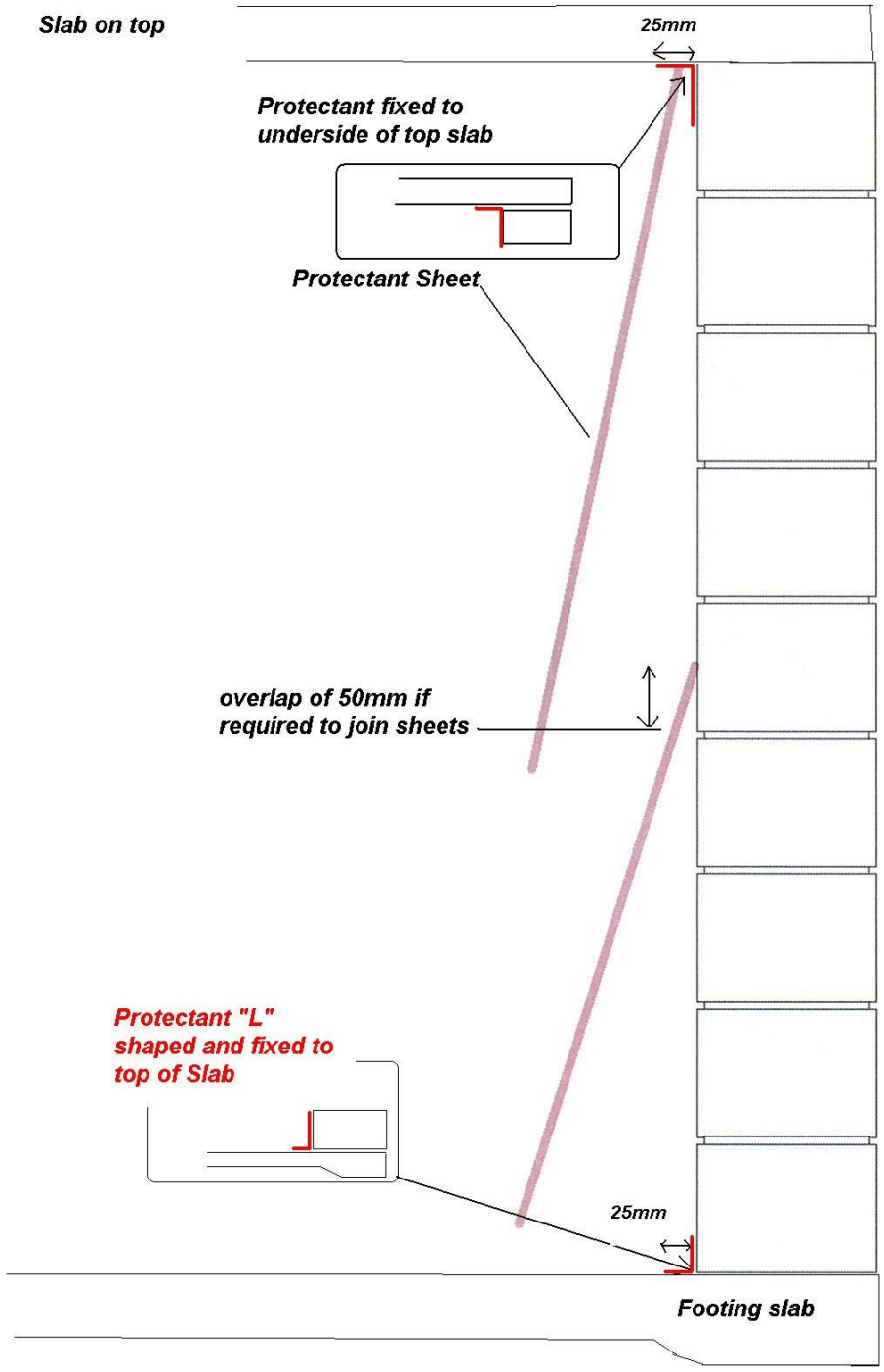
Protection of retaining walls is preferably done on the inside of walls using *Protectant*™ Wall Sheet. ADSOL Adhesive is painted onto the wall before application giving a firmly fixed finish which will allow for direct stick of plaster board.

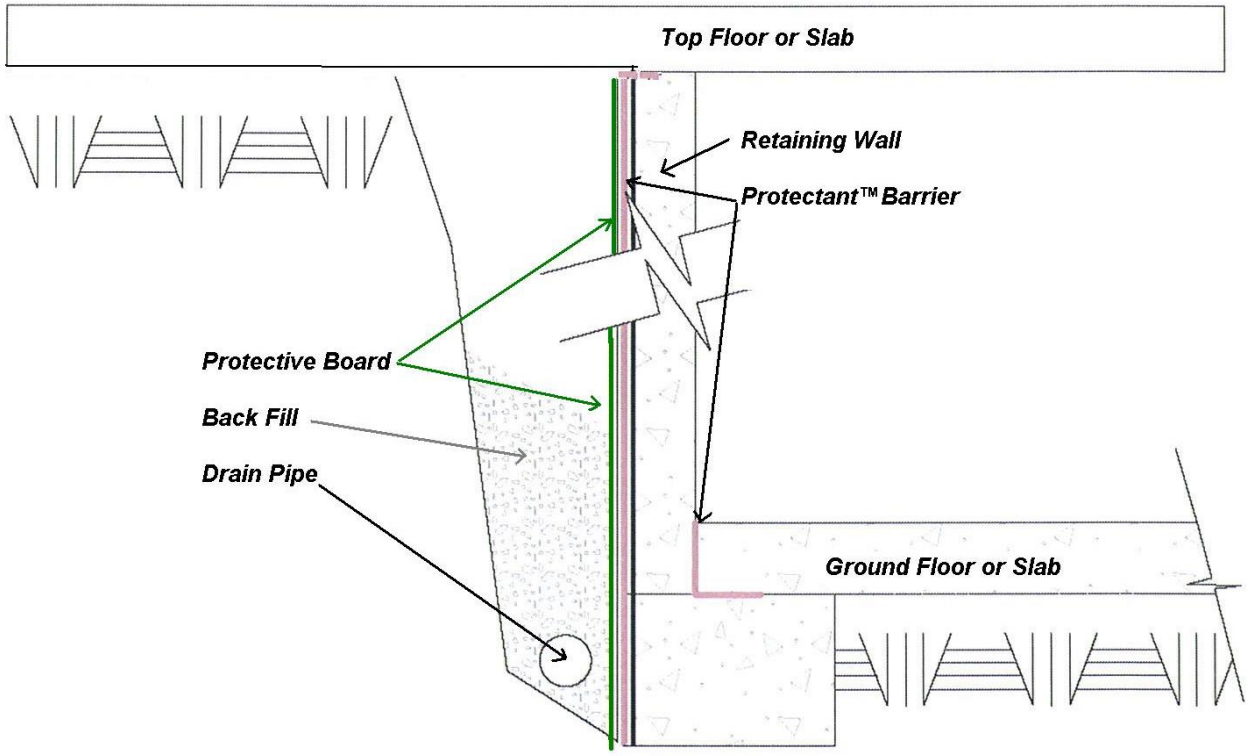
BACKFILLED WALLS

NON-MONOLITHIC AND MONOLITHIC TYPE SLABS

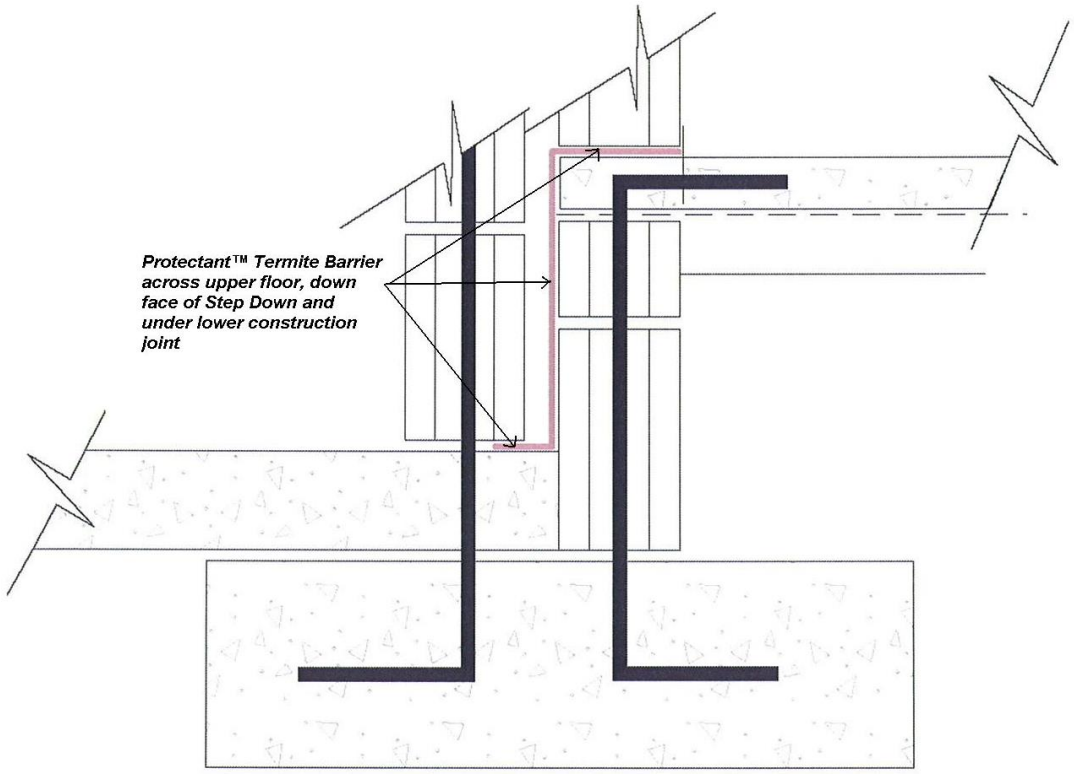
"PROTECTANT" is a Polymer based fabric impregnated with a termite resistant substance



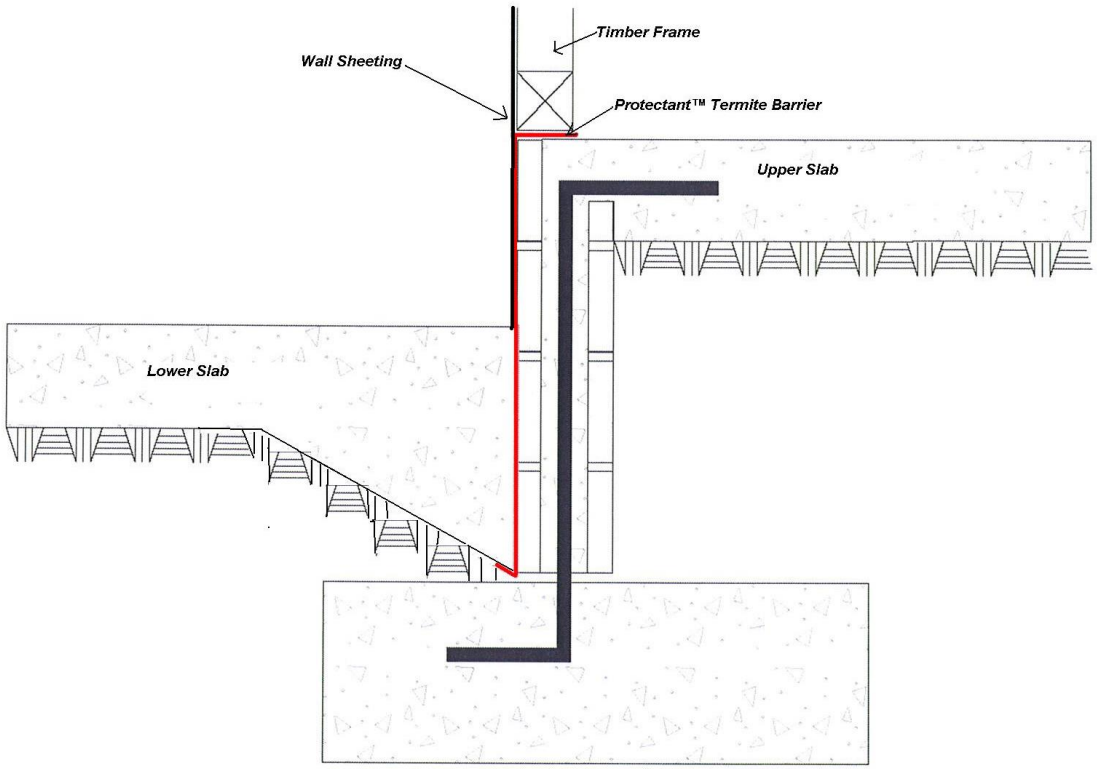

Slab on top
25mm
Protectant fixed to
underside of top slab
Protectant Sheet
overlap of 50mm if
required to join sheets
Protectant "L"
shaped and fixed to
top of Slab
25mm
Footing slab


Top Floor or Slab
Retaining Wall
Protectant™ Barrier
Protective Board
Back Fill
Drain Pipe
Ground Floor or Slab

Protectant™ Barrier installed in a Step Down Construction Joint

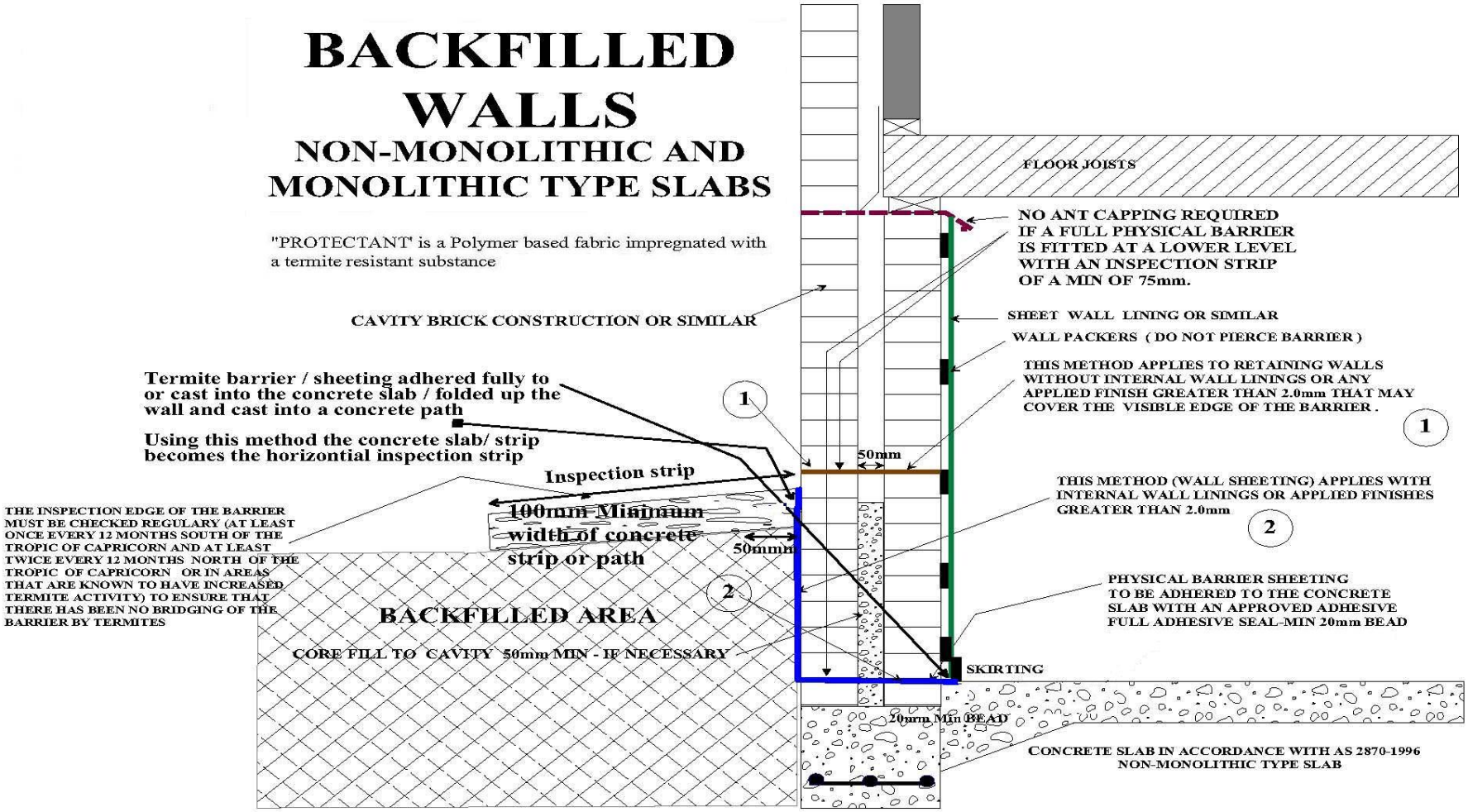


Protectant™ Barrier installed in a Step Down Construction Joint



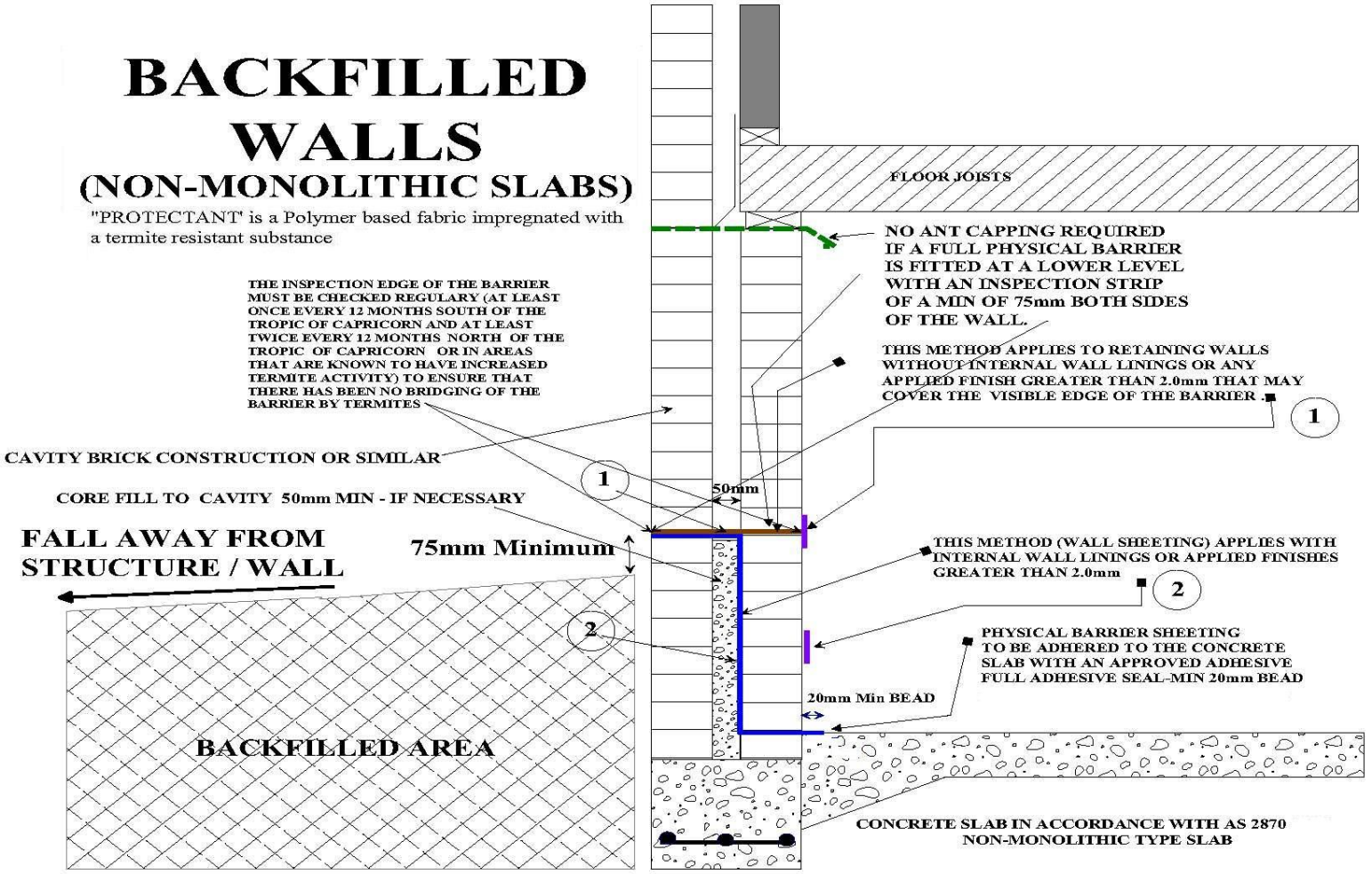
BACKFILLED WALLS

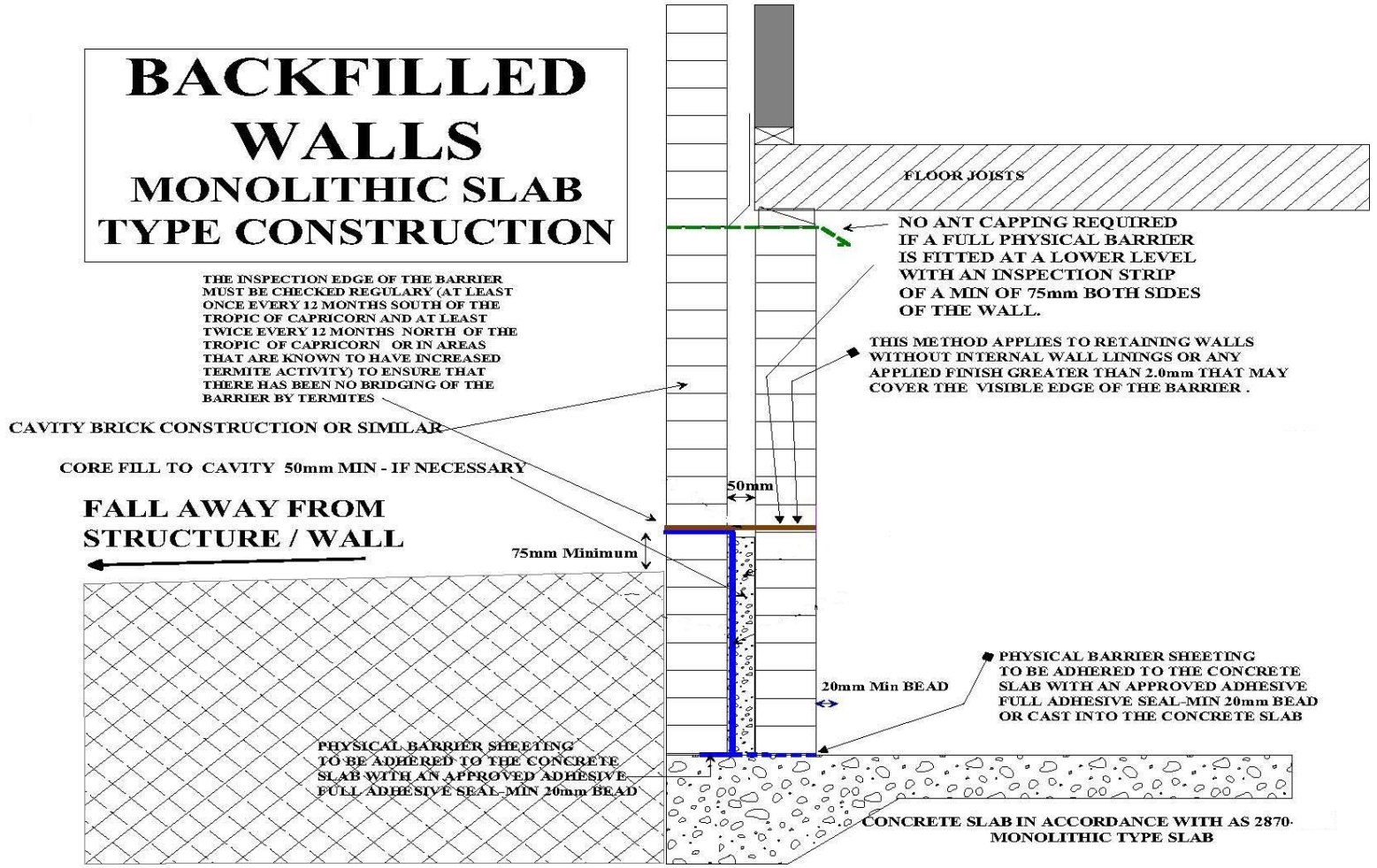
NON-MONOLITHIC AND MONOLITHIC TYPE SLABS



BACKFILLED WALLS
(NON-MONOLITHIC SLABS)

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

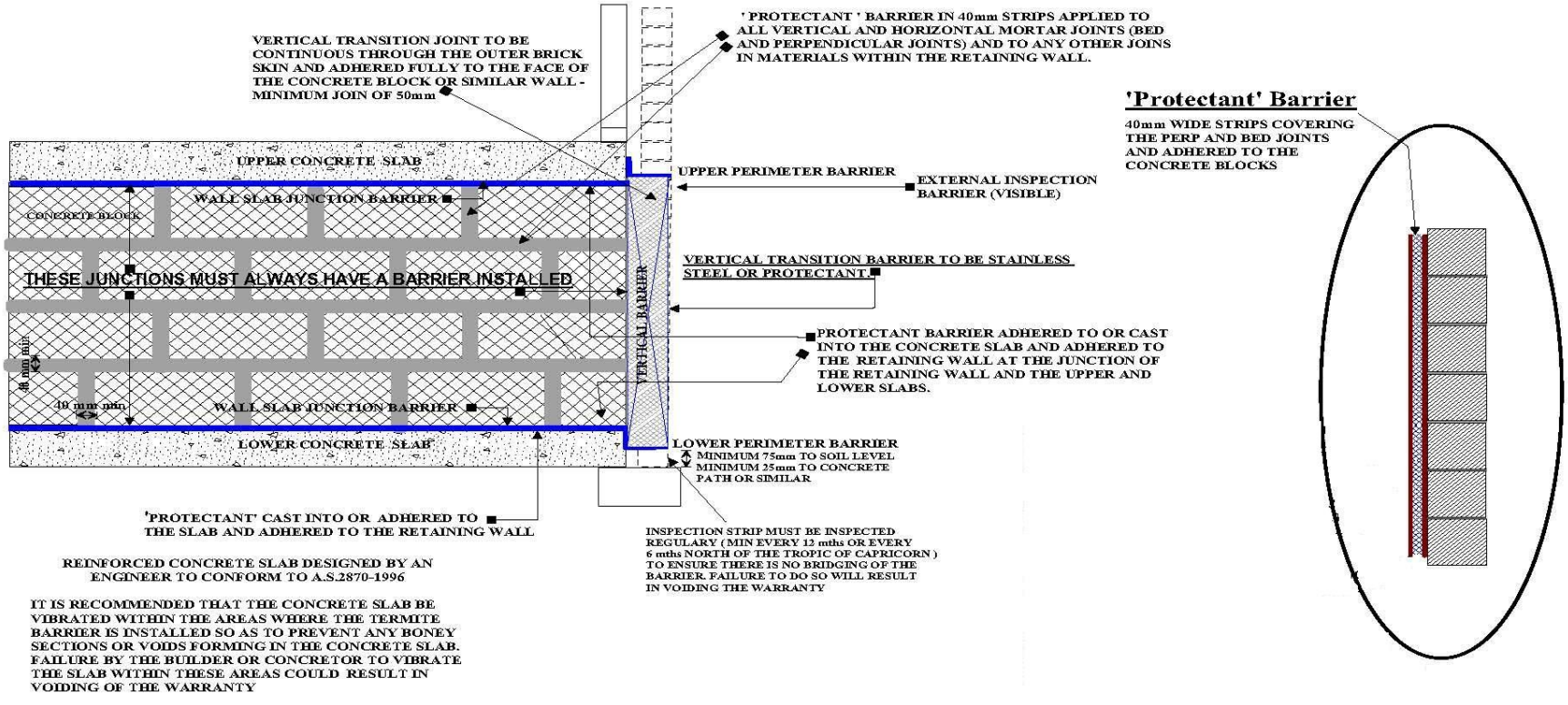



BACKFILLED
WALLS
MONOLITHIC SLAB
TYPE CONSTRUCTION
THE INSPECTION EDGE OF THE BARRIER MUST BE CHECKED REGULARY (AT LEAST ONCE EVERY 12 MONTHS SOUTH OF THE TROPIC OF CAPRICORN AND AT LEAST TWICE EVERY 12 MONTHS NORTH OF THE TROPIC OF CAPRICORN OR IN AREAS THAT ARE KNOWN TO HAVE INCREASED TERMITE ACTIVITY) 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
50mm
FLOOR JOISTS
NO ANT CAPPING REQUIRED IF A FULL PHYSICAL BARRIER IS FITTED AT A LOWER LEVEL WITH AN INSPECTION STRIP OF A MIN OF 75mm BOTH SIDES OF THE WALL.
THIS METHOD APPLIES TO RETAINING WALLS WITHOUT INTERNAL WALL LININGS OR ANY APPLIED FINISH GREATER THAN 2.0mm THAT MAY COVER THE VISIBLE EDGE OF THE BARRIER .
20mm Min BEAD
PHYSICAL BARRIER SHEETING TO BE ADHERED TO THE CONCRETE SLAB WITH AN APPROVED ADHESIVE FULL ADHESIVE SEAL–MIN 20mm BEAD OR CAST INTO THE CONCRETE SLAB
PHYSICAL BARRIER SHEETING TO BE ADHERED TO THE CONCRETE SLAB WITH AN APPROVED ADHESIVE FULL ADHESIVE SEAL–MIN 20mm BEAD
CONCRETE SLAB IN ACCORDANCE WITH AS 2870- MONOLITHIC TYPE SLAB

PROTECTANT BARRIER

CONCRETE BLOCK RETAINING WALL BARRIER APPLIED TO ALL PERPENDICULAR AND HORIZONTAL MORTAR JOINTS

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



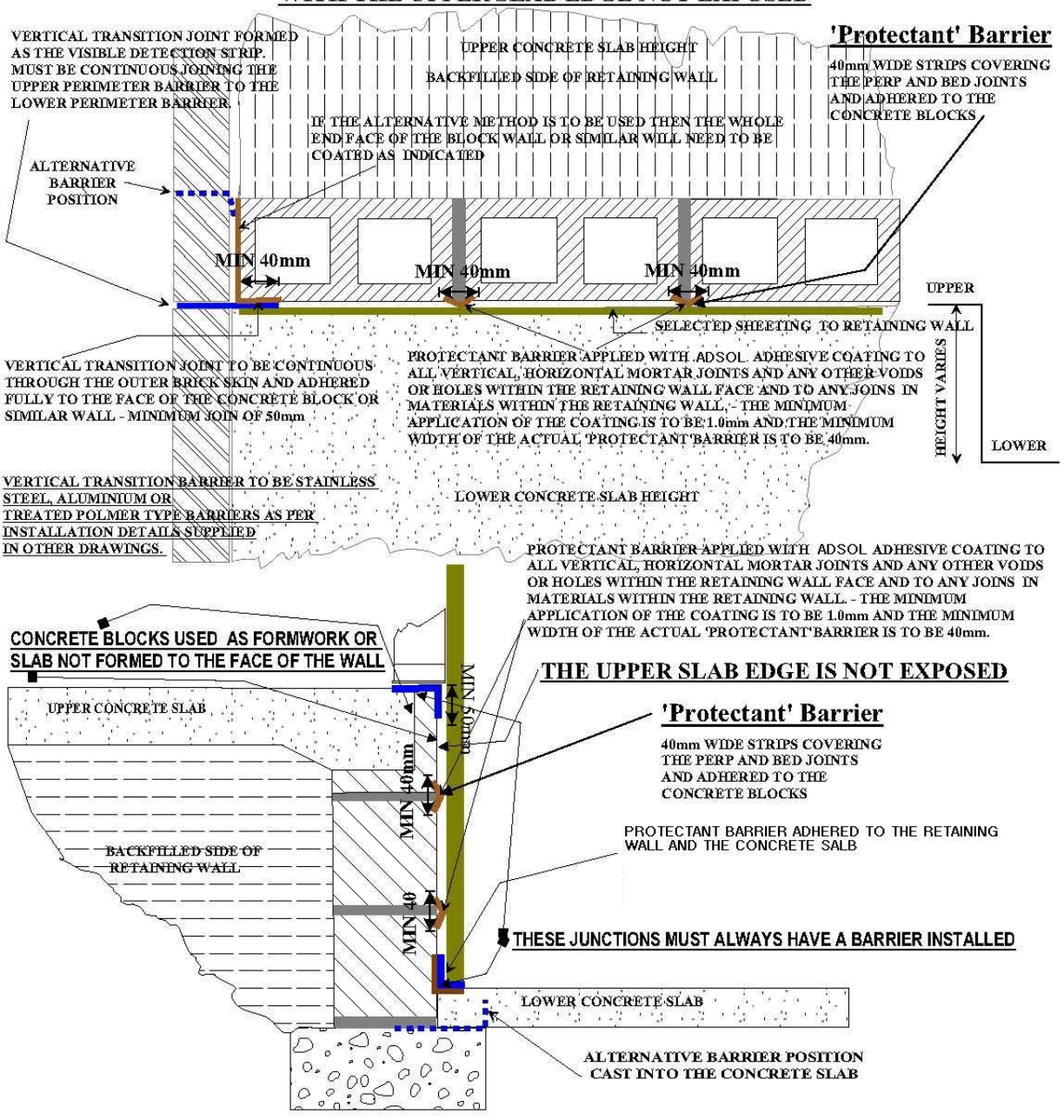
REINFORCED CONCRETE SLAB DESIGNED BY AN ENGINEER TO CONFORM TO A.S.2870-1996

IT IS RECOMMENDED THAT THE CONCRETE SLAB BE VIBRATED WITHIN THE AREAS WHERE THE TERMITE BARRIER IS INSTALLED SO AS TO PREVENT ANY BONEY SECTIONS OR VOIDS FORMING IN THE CONCRETE SLAB. FAILURE BY THE BUILDER OR CONCRETOR TO VIBRATE THE SLAB WITHIN THESE AREAS COULD RESULT IN VOIDING OF THE WARRANTY

PROTECTANT BARRIER
CONCRETE BLOCK RETAINING WALL BARRIER APPLIED TO ALL PERPENDICULAR AND HORIZONTAL MORTAR JOINTS

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

FACE OF CONCRETE BLOCK WALL IS COVERED BY SELECTED SHEETING OR SIMILAR WITH THE UPPER SLAB EDGE NOT EXPOSED

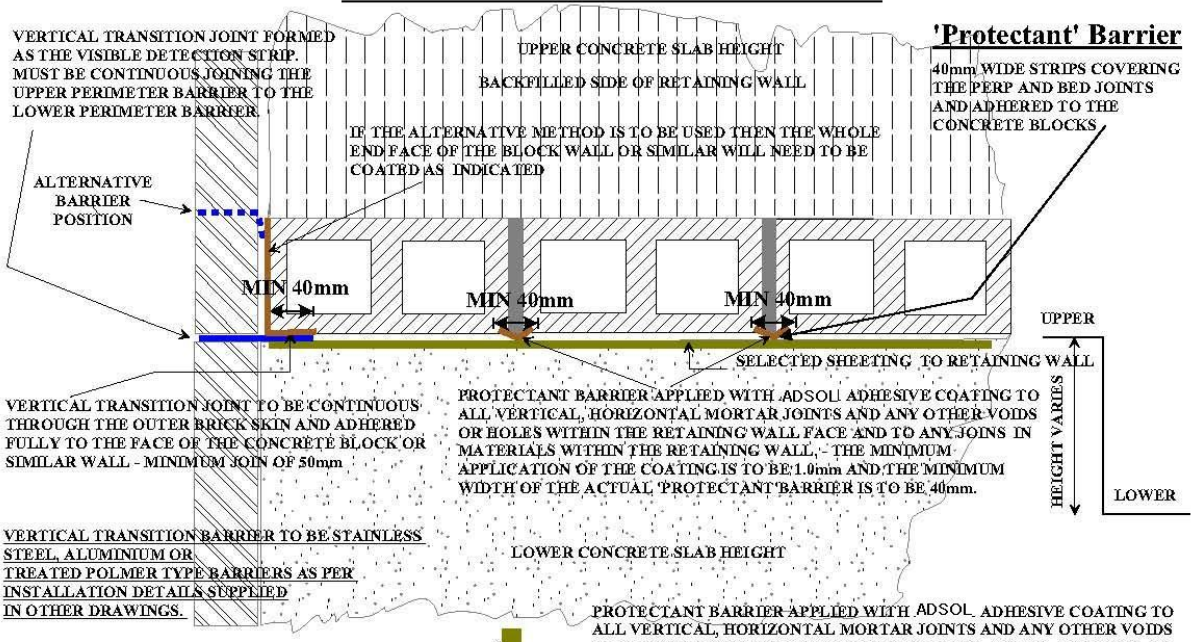


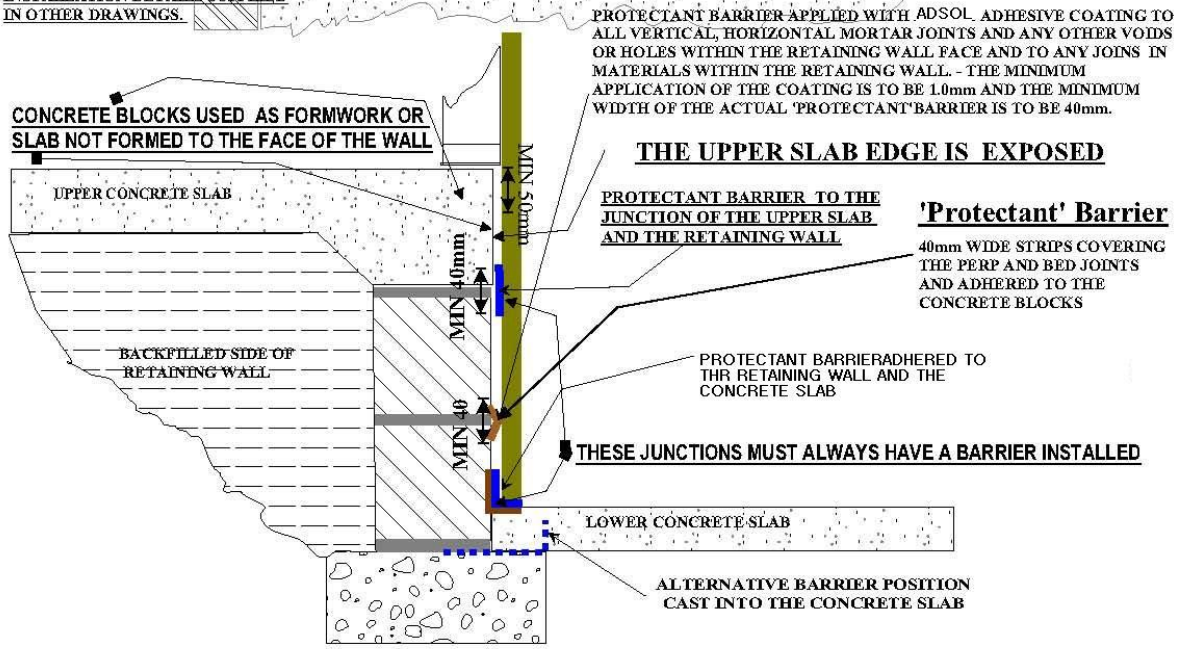
ANY TYPE OF CONCRETE MASONRY OR BRICK TYPE RETAINING WALLS

PROTECTANT BARRIER
CONCRETE BLOCK RETAINING WALL BARRIER APPLIED TO ALL PERPENDICULAR AND HORIZONTAL MORTAR JOINTS

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

FACE OF CONCRETE BLOCK WALL IS COVERED BY SELECTED SHEETING OR SIMILAR WITH THE UPPER SLAB EDGE EXPOSED



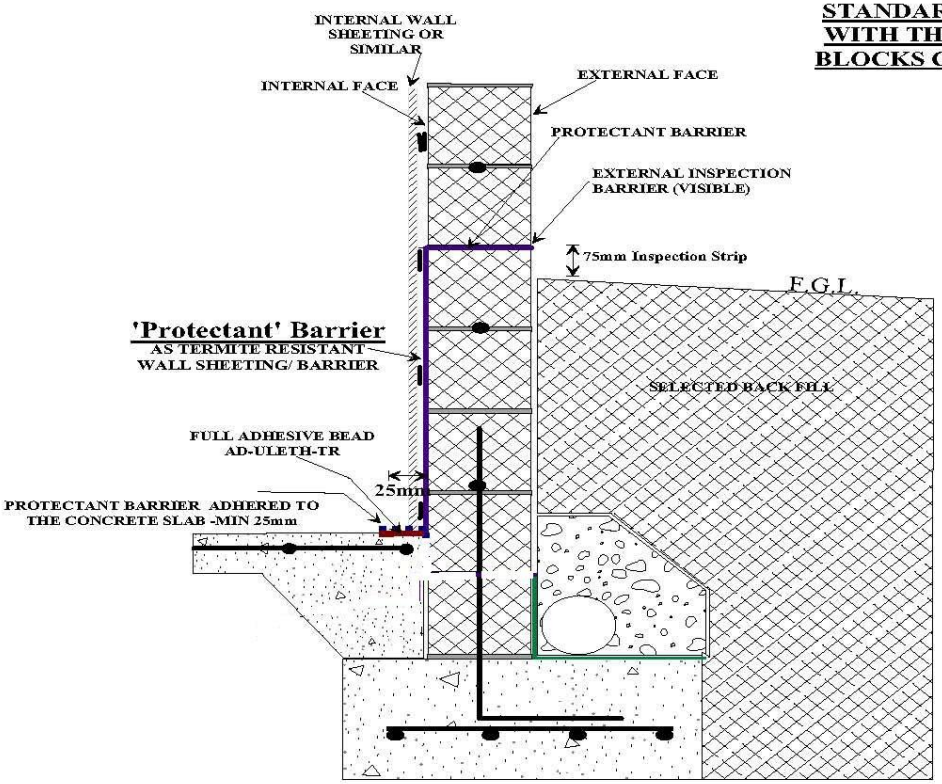


ANY TYPE OF CONCRETE MASONRY OR BRICK TYPE RETAINING WALLS

PROTECTANT BARRIER

CONCRETE BLOCK RETAINING WALLS
WALL SHEETING TYPE TERMITE BARRIER

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



STANDARD BLOCK CONSTRUCTION WITH THE INTERNAL FACE OF THE BLOCKS COVERED BY BATTENS AND WALL SHEETING

THE INSPECTION EDGE OF THE BARRIER MUST BE CHECKED REGULARY (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

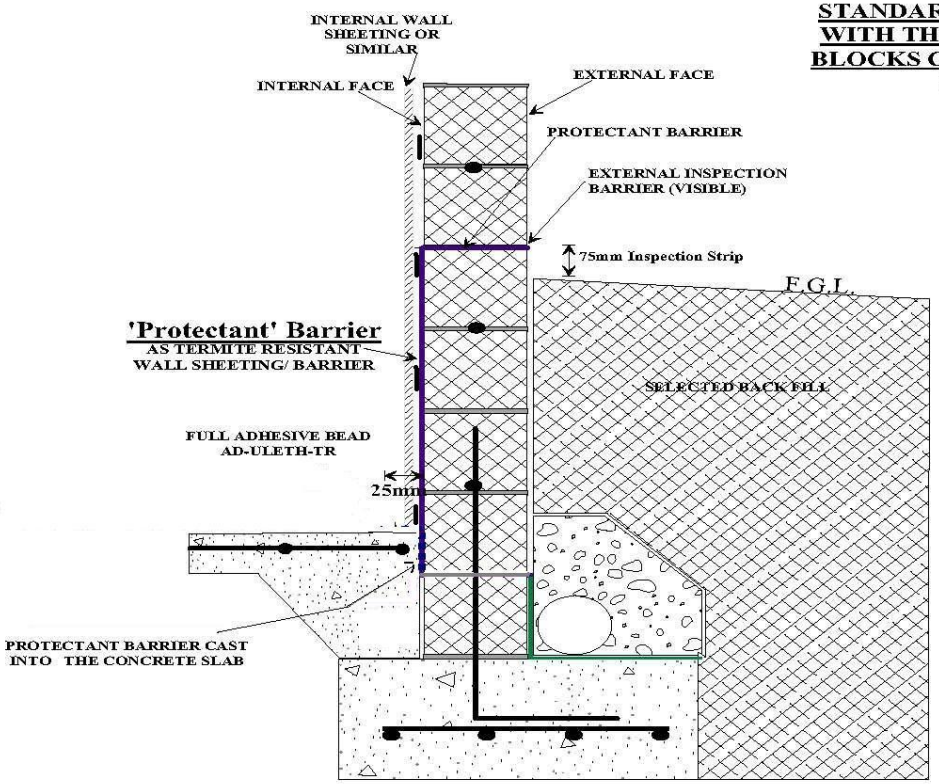
TYPICAL ADHESIVE / POLYMER APPLICATION DETAILS

(1) APPLY PADS OF AD-ULETH-TR ADHESIVE TO THE BLOCK RETAINING WALL AT 450 mm centres .
(2) APPLY THE PROTECTANT BLANKET BARRIER TO THE BLOCK WALL ENSURING THE SURFACE IS FLAT AND FREE OF WRINKLES OR FOLDS AND IS WELL ADHERED TO THE ADHESIVE PADS.
(3) ENSURE THAT THE PROTECTANT IS JOINED ONTO THE SLAB OR FOUNDATIONS TO ENSURE THAT THE TERMITE BARRIER WALL SHEETING IS CONTINUOUS

PROTECTANT BARRIER

CONCRETE BLOCK RETAINING WALLS
WALL SHEETING TYPE TERMITE BARRIER

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



STANDARD BLOCK CONSTRUCTION WITH THE INTERNAL FACE OF THE BLOCKS COVERED BY BATTENS AND WALL SHEETING

THE INSPECTION EDGE OF THE BARRIER MUST BE CHECKED REGULARY (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

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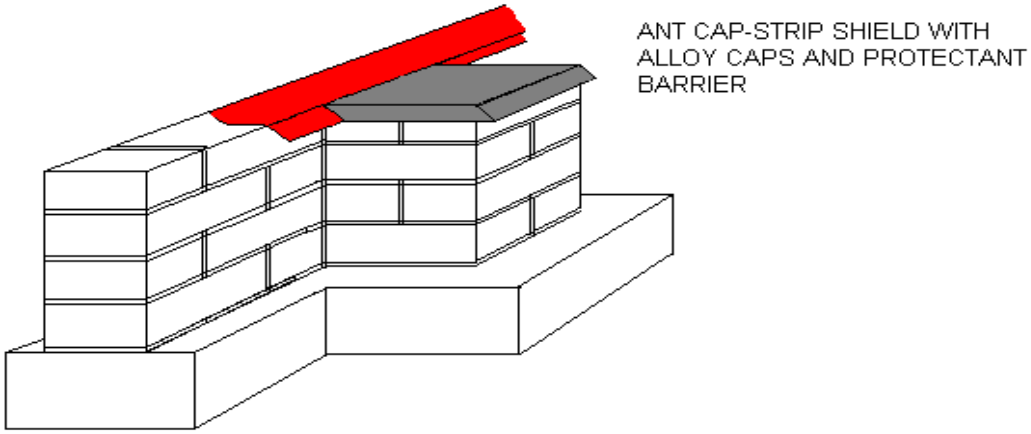
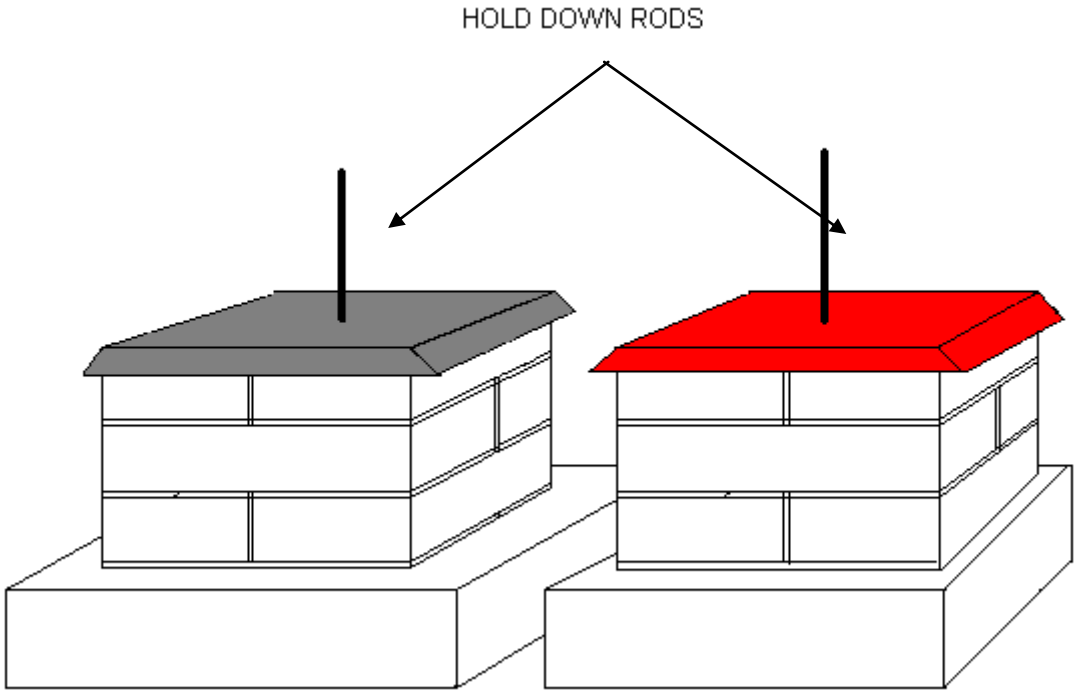
(3) ENSURE THAT THE PROTECTANT IS JOINED ONTO THE SLAB OR FOUNDATIONS TO ENSURE THAT THE TERMITE BARRIER WALL SHEETING IS CONTINUOUS

Protectant™ Strip Shielding

- Barrier bonded to brickwork
- Ease of installation
- Repels and kills termites

ANT CAPPING – ENGAGED PIERS



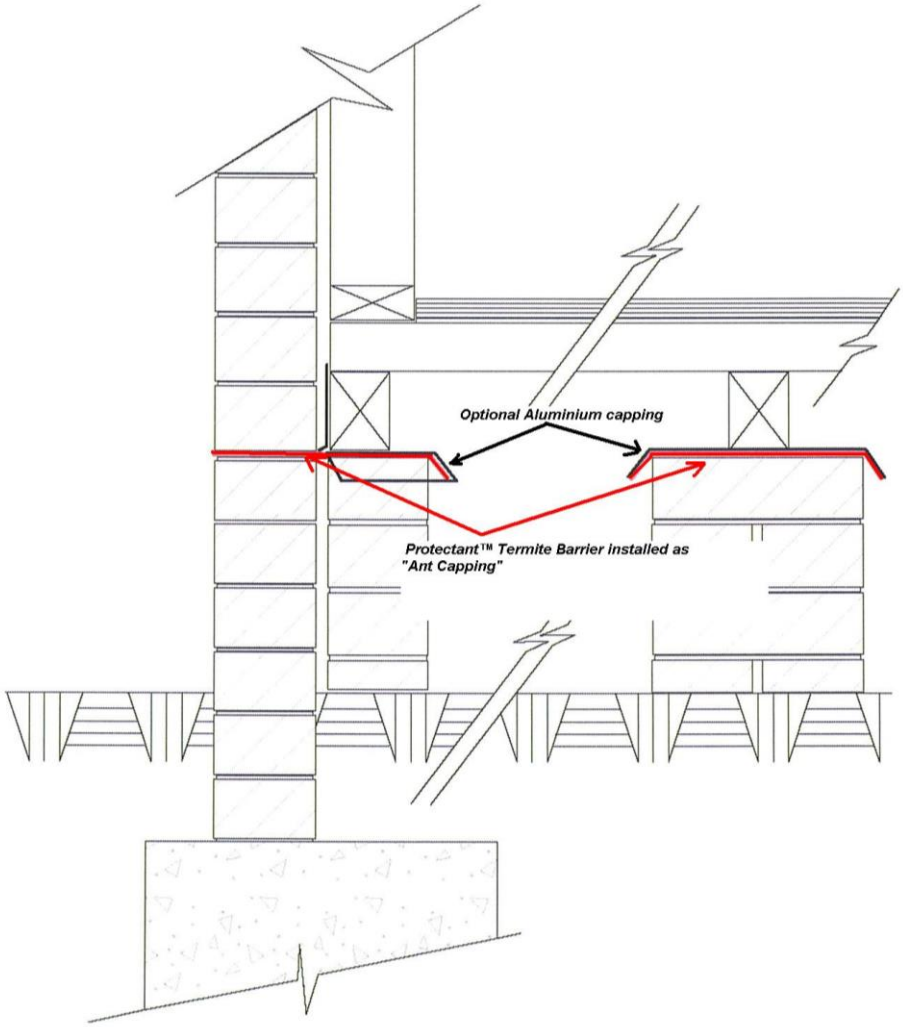


Isolated piers protected with either *Protectant*™ or aluminium stump caps

Protectant™ Termite Barrier with aluminium stump caps installed.

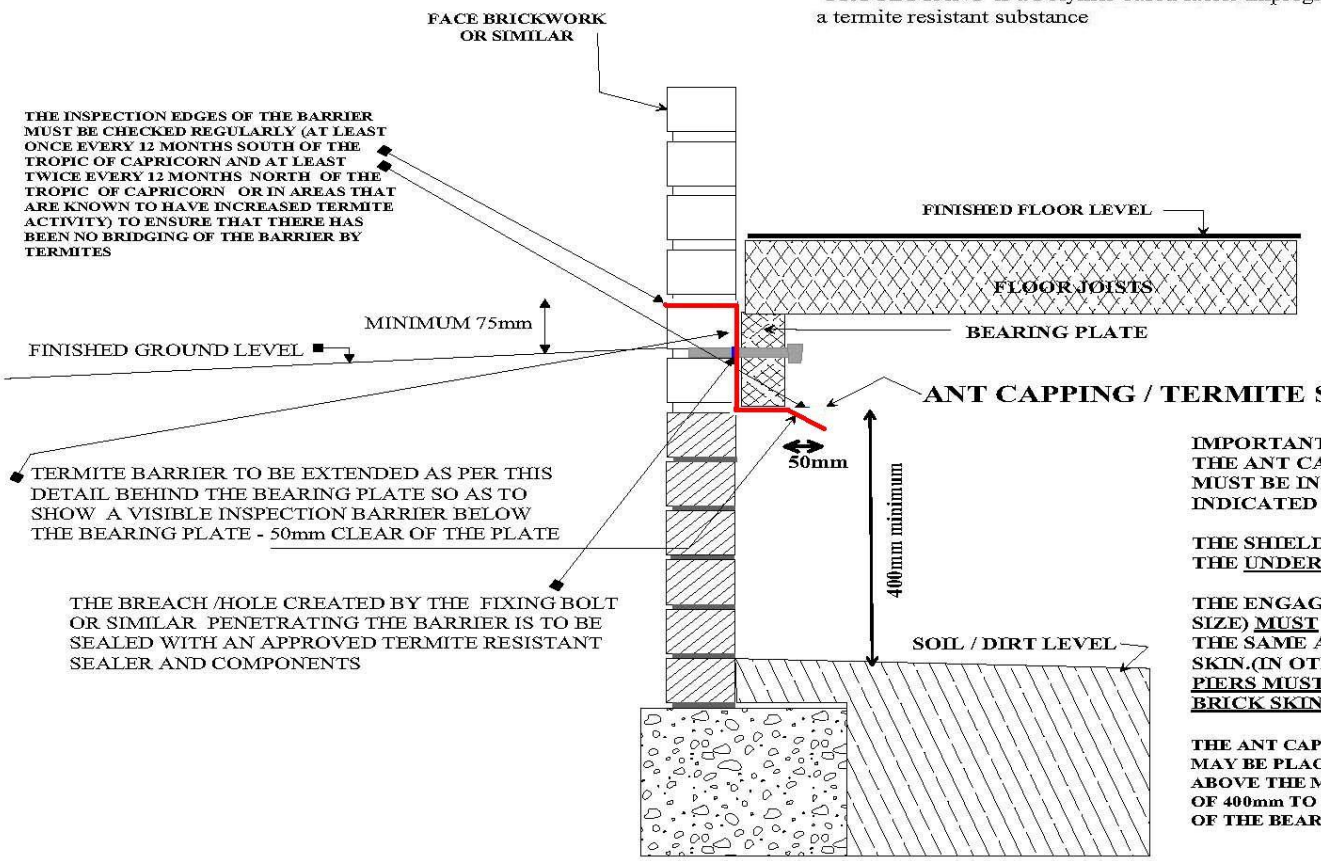
The aluminium capping can be added as an anti ware plate over the *Protectant*™ Termite barrier.

Protectant™ Termite Barrier installed as Ant Capping System.



ANT CAPPING SYSTEM INSTALLATION
BEARING PLATE / TIMBER FLOOR CONSTRUCTION

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



IMPORTANT INSTALLATION NOTES :
THE ANT CAPPING / TERMITE SHIELDING MUST BE INSTALLED IN THE POSITION INDICATED IN THIS DRAWING.

THE SHIELDING IS TO BE INSTALLED TO THE UNDERSIDE OF THE PLATE.

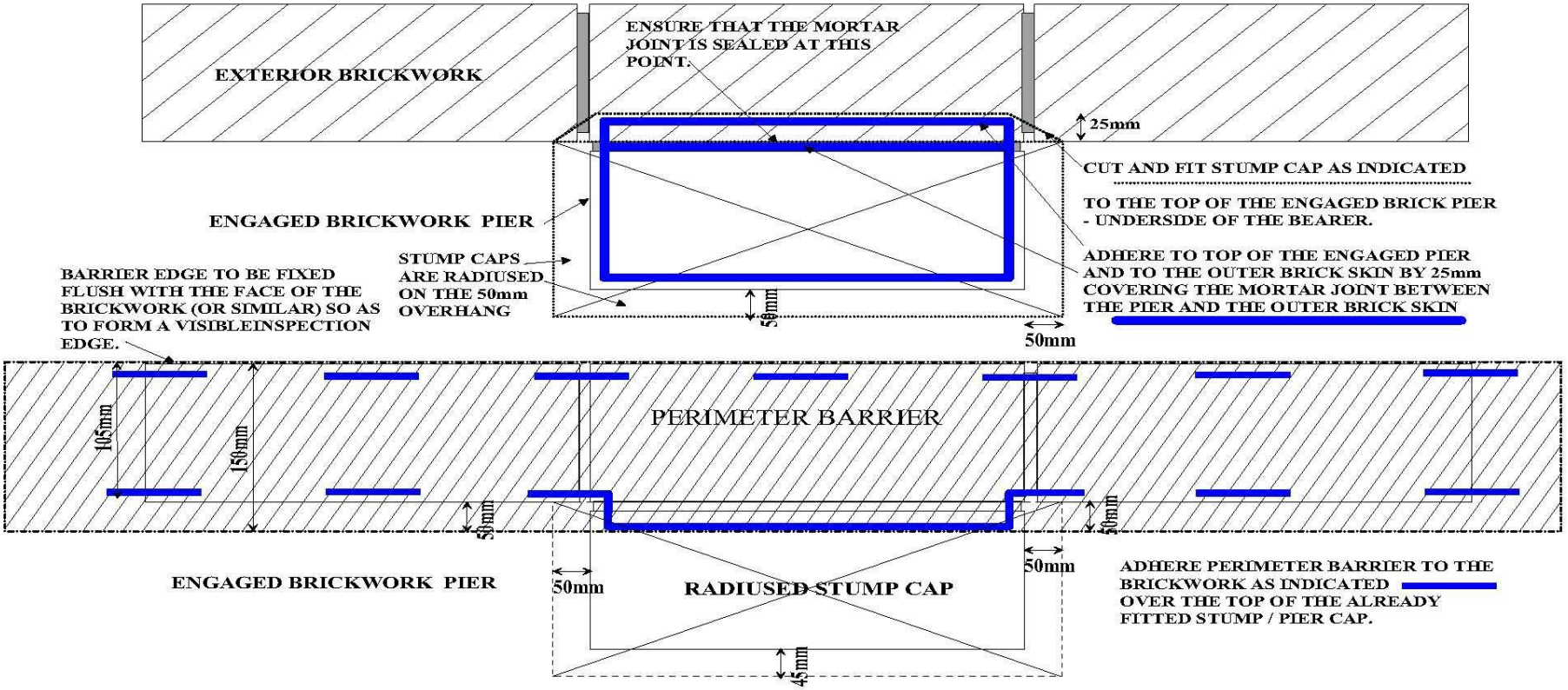
THE ENGAGED PIER (IRRESPECTIVE OF SIZE) MUST HAVE A FINISHED HEIGHT THE SAME AS THE OUTSIDE BRICKWORK SKIN.(IN OTHER WORDS THE ENGAGED PIERS MUST BE LEVEL WITH OUTSIDE BRICK SKIN)

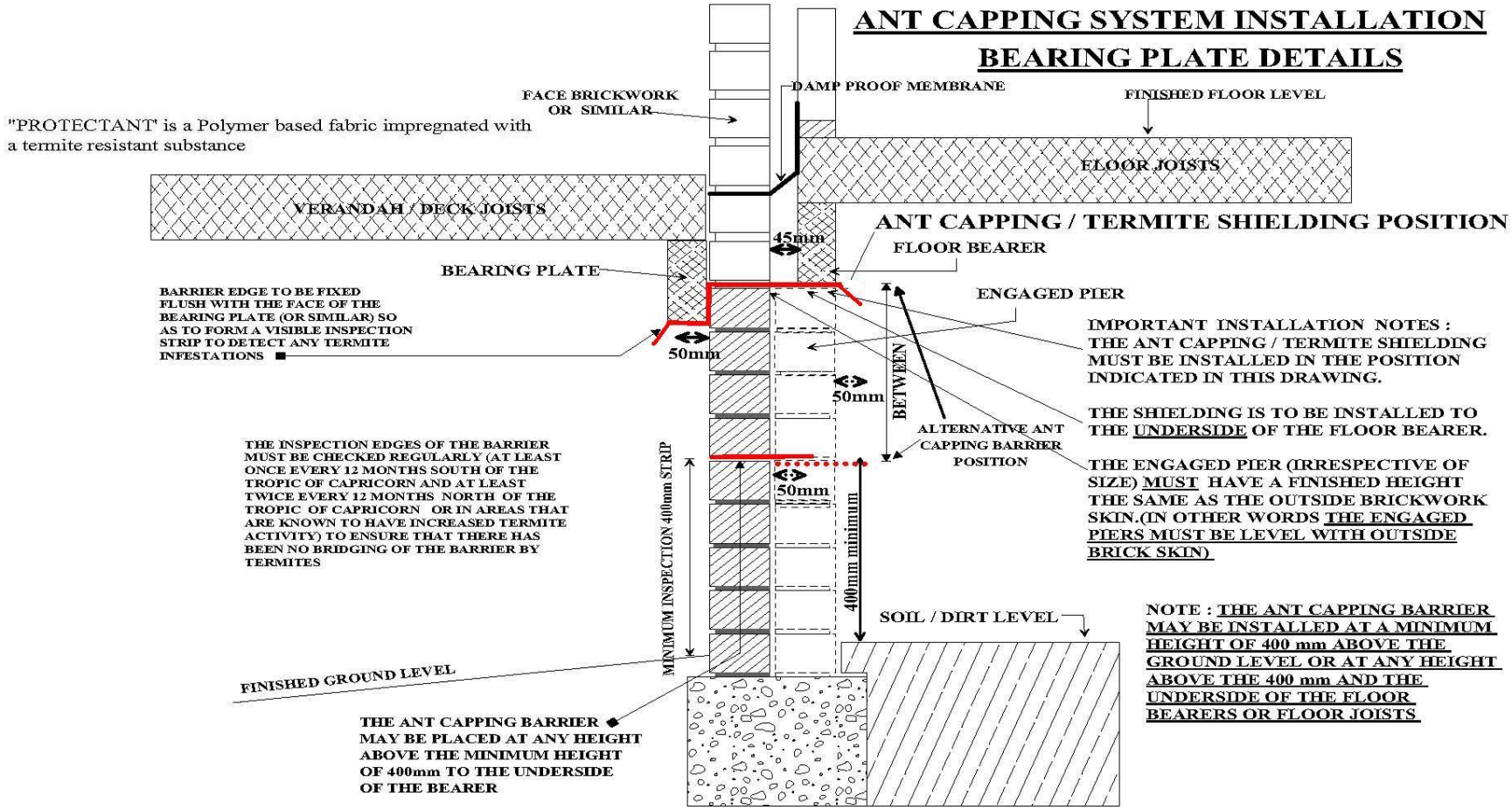
THE ANT CAPPING BARRIER MAY BE PLACED AT ANY HEIGHT ABOVE THE MINIMUM HEIGHT OF 400mm TO THE UNDERSIDE OF THE BEARER

ANT CAPPING FIXING DETAILS

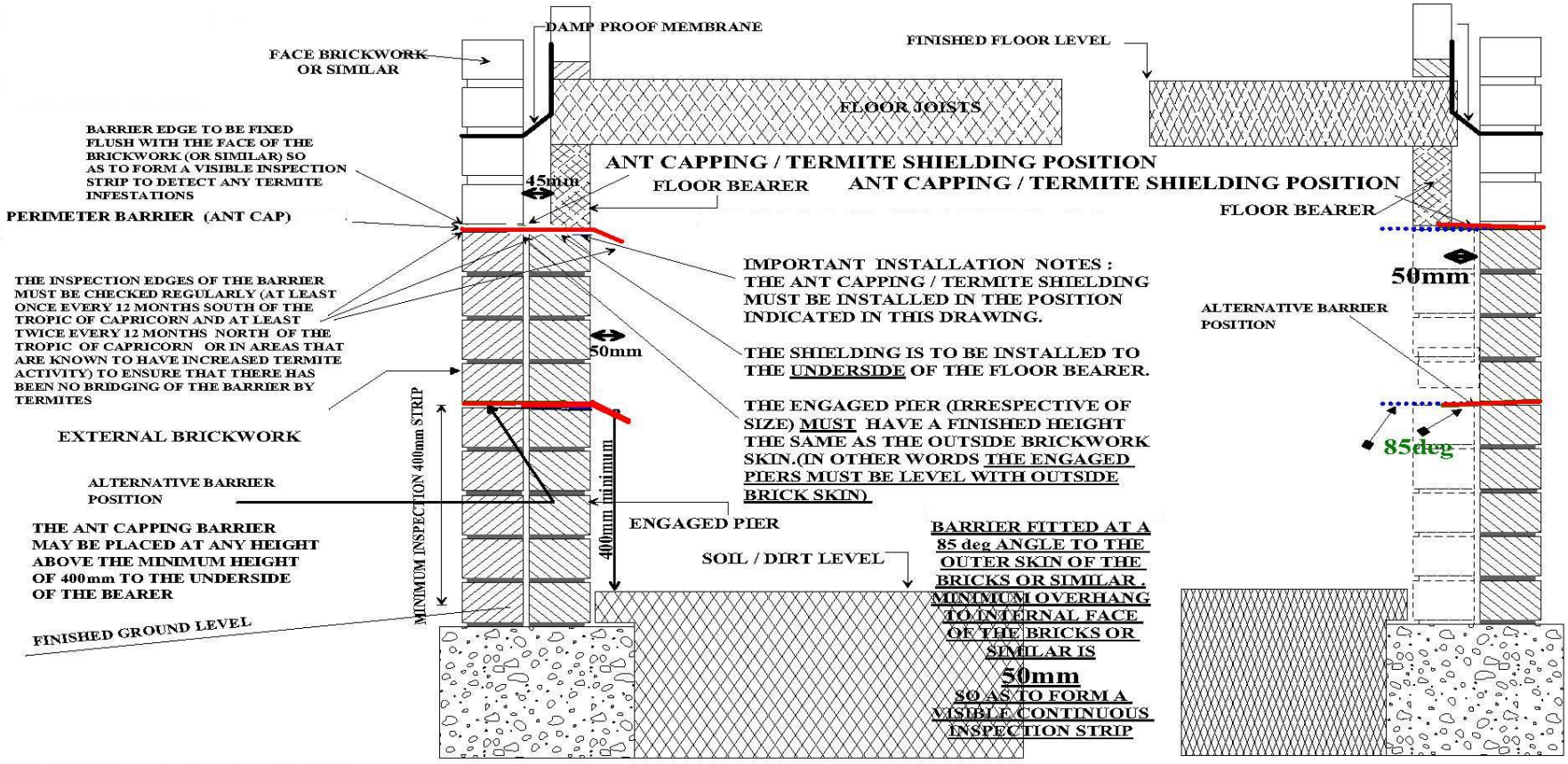
ENGAGED PIERS TO PERIMETER BARRIER

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




ANT CAPPING SYSTEM INSTALLATION
BEARING PLATE DETAILS
"PROTECTANT' is a Polymer based fabric impregnated with a termite resistant substance
FACE BRICKWORK OR SIMILAR
DAMP PROOF MEMBRANE
FINISHED FLOOR LEVEL
FLOOR JOISTS
VERANDAH / DECK JOISTS
ANT CAPPING / TERMITE SHIELDING POSITION
45mm
FLOOR BEARER
BEARING PLATE
ENGAGED PIER
BARRIER EDGE TO BE FIXED FLUSH WITH THE FACE OF THE BEARING PLATE (OR SIMILAR) SO AS TO FORM A VISIBLE INSPECTION STRIP TO DETECT ANY TERMITE INFESTATIONS
50mm
50mm
BETWEEN
IMPORTANT INSTALLATION NOTES :
THE ANT CAPPING / TERMITE SHIELDING MUST BE INSTALLED IN THE POSITION INDICATED IN THIS DRAWING.
THE SHIELDING IS TO BE INSTALLED TO THE UNDERSIDE OF THE FLOOR BEARER.
ALTERNATIVE ANT CAPPING BARRIER POSITION
THE INSPECTION EDGES 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
MINIMUM INSPECTION 400mm STRIP
50mm
400mm minimum
THE ENGAGED PIER (IRRESPECTIVE OF SIZE) MUST HAVE A FINISHED HEIGHT THE SAME AS THE OUTSIDE BRICKWORK SKIN.(IN OTHER WORDS THE ENGAGED PIERS MUST BE LEVEL WITH OUTSIDE BRICK SKIN)
SOIL / DIRT LEVEL
NOTE : THE ANT CAPPING BARRIER MAY BE INSTALLED AT A MINIMUM HEIGHT OF 400 mm ABOVE THE GROUND LEVEL OR AT ANY HEIGHT ABOVE THE 400 mm AND THE UNDERSIDE OF THE FLOOR BEARERS OR FLOOR JOISTS
FINISHED GROUND LEVEL
THE ANT CAPPING BARRIER MAY BE PLACED AT ANY HEIGHT ABOVE THE MINIMUM HEIGHT OF 400mm TO THE UNDERSIDE OF THE BEARER

ANT CAPPING SYSTEM INSTALLATION



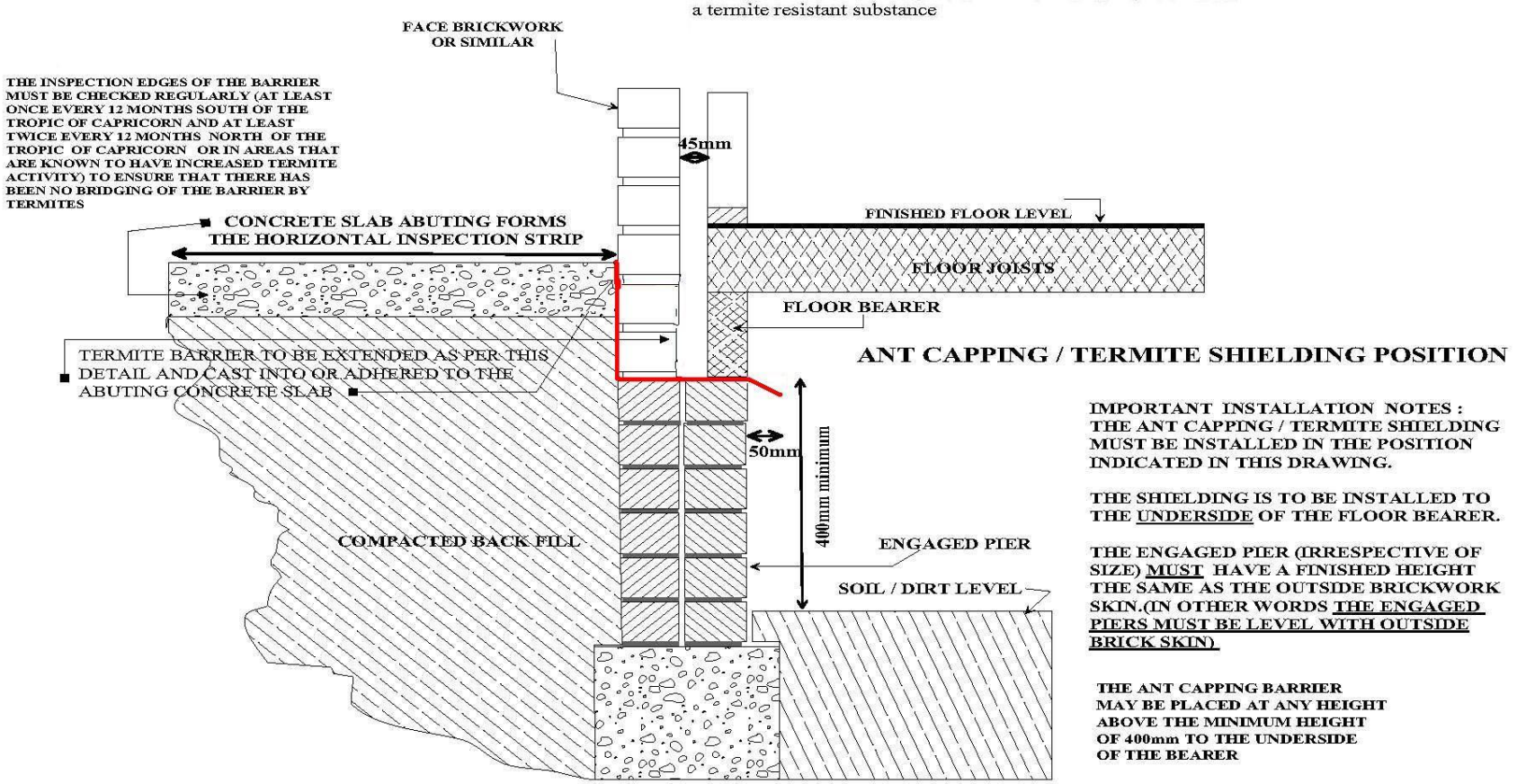
"PROTECTANT' is a Polymer based fabric impregnated with a termite resistant substance

THRU SECTION : STUMP CAPS / ENGAGED PIERS

THRU SECTION : ANT CAPPING BARRIER ON SINGLE BRICK OR SIMILAR MATERIAL SKIN

ANT CAPPING SYSTEM INSTALLATION
CONCRETE SLAB ABUTS TIMBER FLOOR CONSTRUCTION

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



ANT CAPPING / TERMITE SHIELDING POSITION

IMPORTANT INSTALLATION NOTES :
THE ANT CAPPING / TERMITE SHIELDING MUST BE INSTALLED IN THE POSITION INDICATED IN THIS DRAWING.

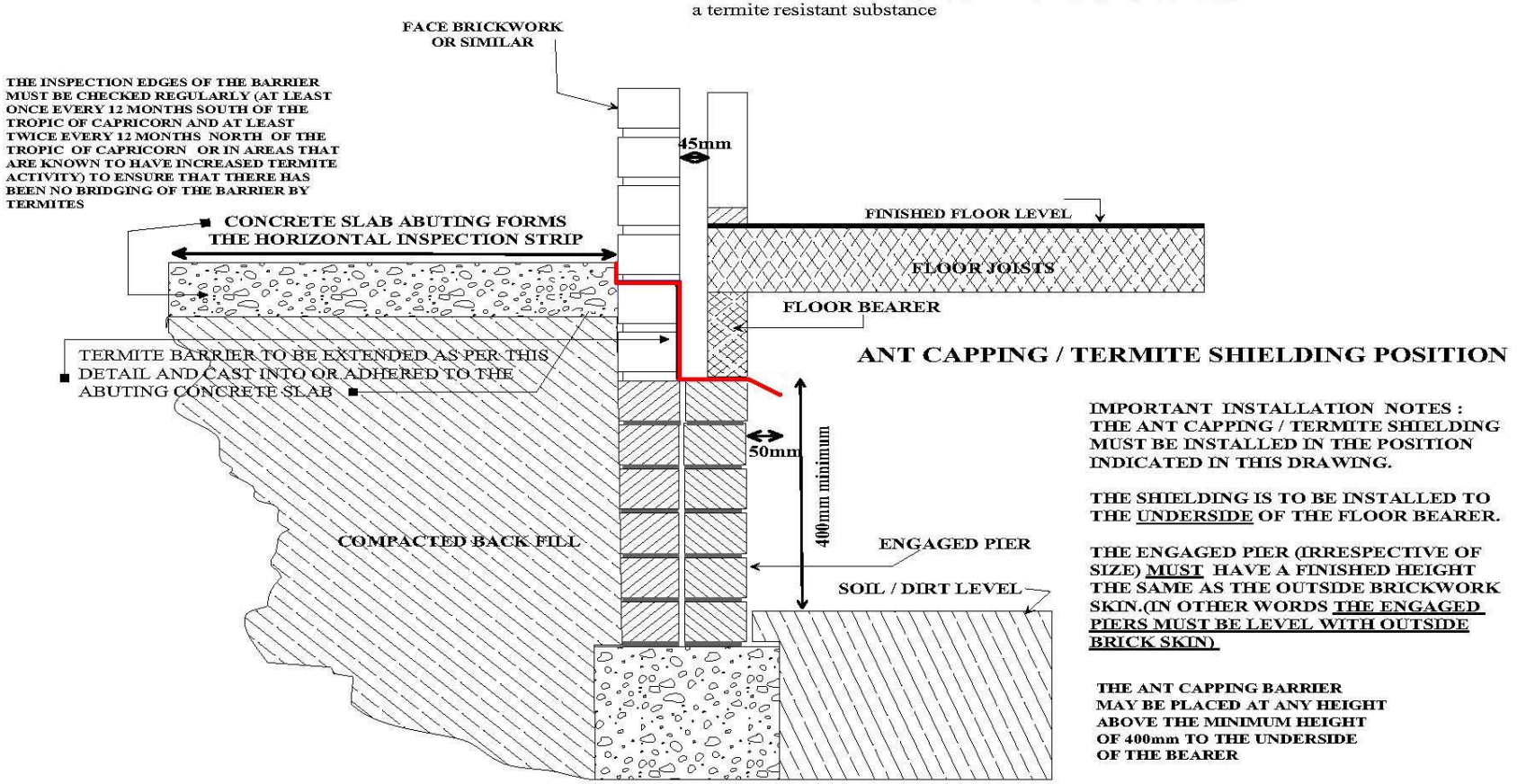
THE SHIELDING IS TO BE INSTALLED TO THE UNDERSIDE OF THE FLOOR BEARER.

THE ENGAGED PIER (IRRESPECTIVE OF SIZE) MUST HAVE A FINISHED HEIGHT THE SAME AS THE OUTSIDE BRICKWORK SKIN.(IN OTHER WORDS THE ENGAGED PIERS MUST BE LEVEL WITH OUTSIDE BRICK SKIN)

THE ANT CAPPING BARRIER MAY BE PLACED AT ANY HEIGHT ABOVE THE MINIMUM HEIGHT OF 400mm TO THE UNDERSIDE OF THE BEARER

ANT CAPPING SYSTEM INSTALLATION
CONCRETE SLAB ABUTS TIMBER FLOOR CONSTRUCTION

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



ANT CAPPING / TERMITE SHIELDING POSITION

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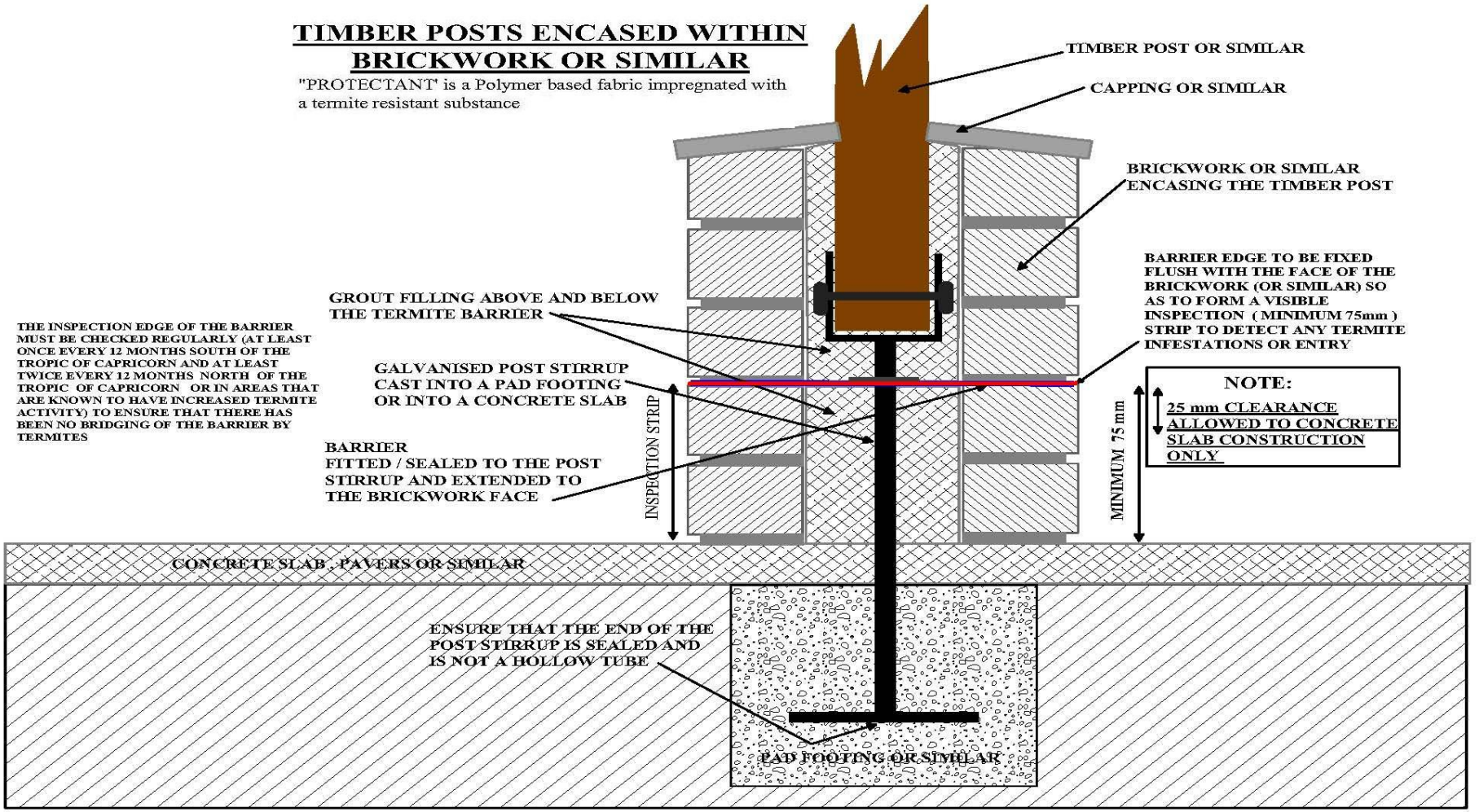
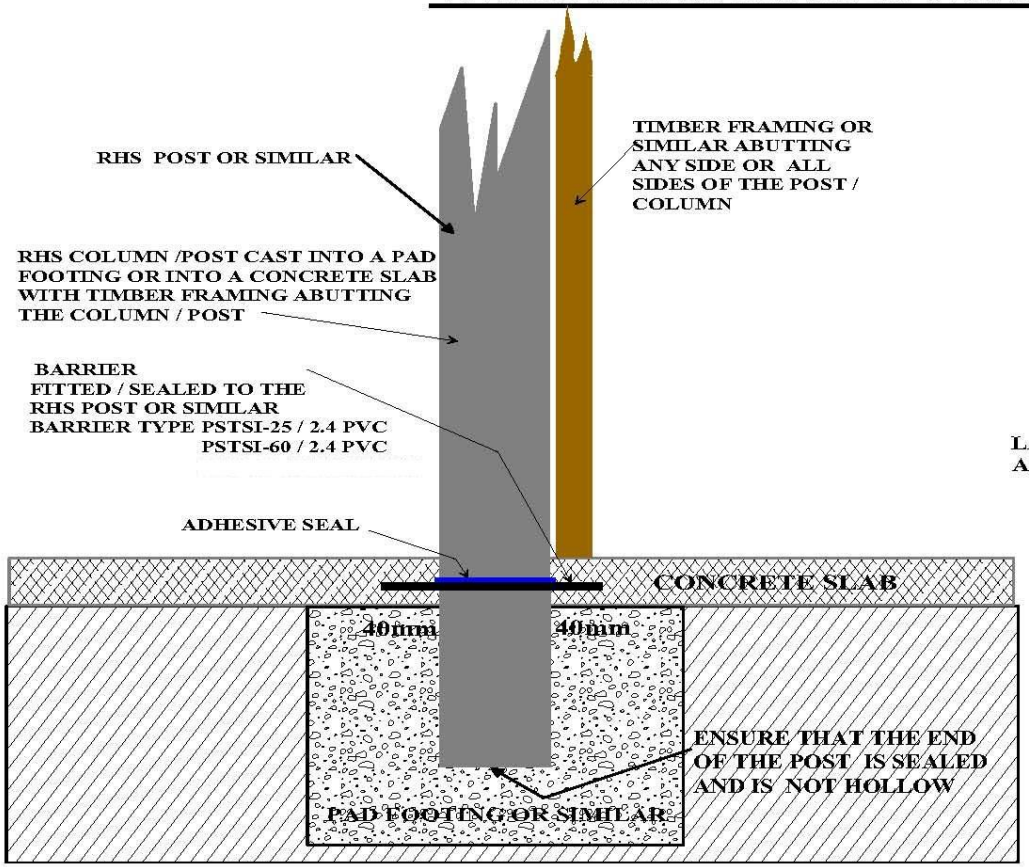
TIMBER POSTS ENCASED WITHIN BRICKWORK OR SIMILAR

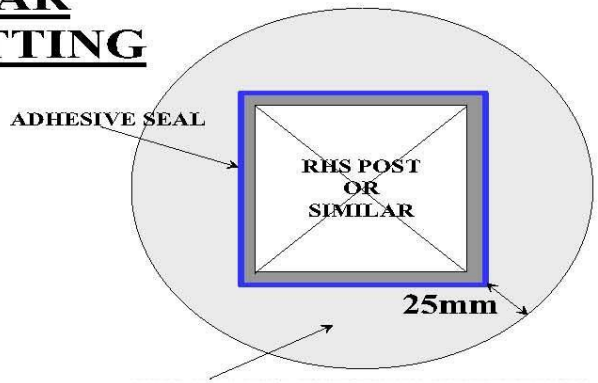
"PROTECTANT" is a Polymer based fabric impregnated with a termite resistant substance

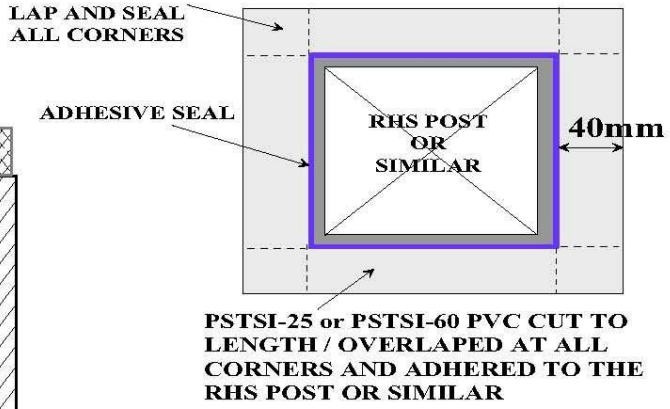


THE INSPECTION EDGE OF THE BARRIER MUST BE CHECKED REGULARLY (AT LEAST ONCE EVERY 12 MONTHS SOUTH OF THE TROPIC OF CAPRICORN AND AT LEAST TWICE EVERY 12 MONTHS NORTH OF THE TROPIC OF CAPRICORN OR IN AREAS THAT ARE KNOWN TO HAVE INCREASED TERMITE ACTIVITY) TO ENSURE THAT THERE HAS BEEN NO BRIDGING OF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

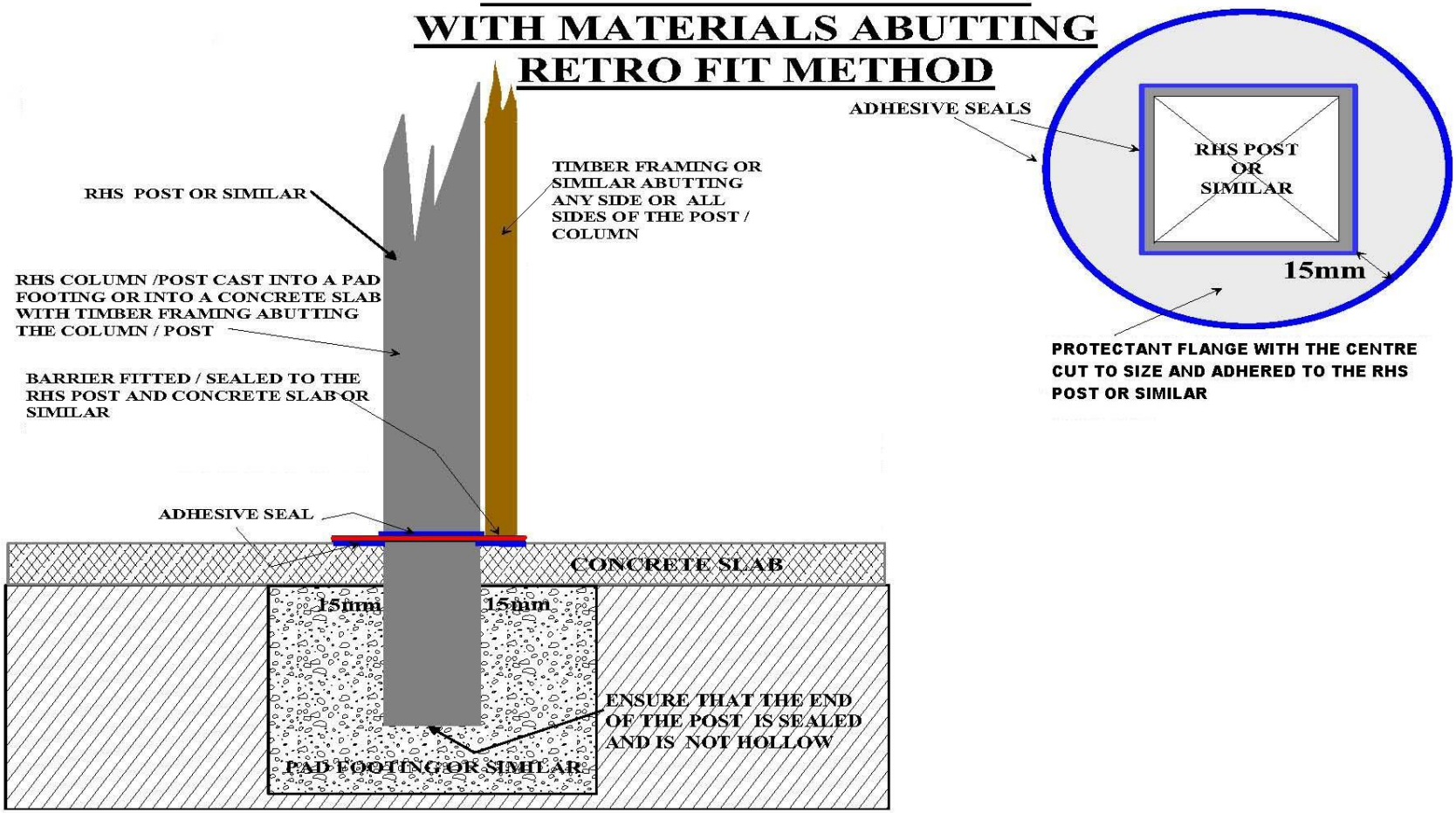
RHS POSTS OR SIMILAR WITH MATERIALS ABUTTING







RHS POSTS OR SIMILAR WITH MATERIALS ABUTTING RETRO FIT METHOD



PEST Protectant™ MANAGEMENT
THEWHITEANTCO.
ABN: 51 100 706 009

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Loganholme BC QLD 4129
Phone: (07) 3806 1402
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PO Box 212
Thomastown VIC 3074
Phone: (03) 9464 4667
Fax: (03) 9464 4668

Phone: **1300 552 532**
Email: **enquiries@whiteantco.com.au**

SPECIFICATION
For the
Protectant™ Termite Barrier Systems

Extent of Work:
Form a physical and chemical in non-soil matrix termite protection barrier that will deter the concealed entry of subterranean termites to all new building work.

Proprietary System:
Protectant™ Termite Barrier Systems

Supply and install a physical and chemical in non-soil matrix termite barrier by an accredited technician in accordance with the manufacturer's specification an Australian Standards 3660.1 of 2000 'Termite Management, Part1 : New building work'.

Scope of Work:
Termite Control

Anti-termite physical and chemical in non-soil matrix termite barrier shall be installed to conform to AS3660.1 of 2000 'Termite Management, Part1 : New building work'.

Service penetrations though the slab to be protected with a PVC collar fixed and installed to manufacturer's specifications.

Control or expansion joints in the slab to be protected with a polyester fabric (polymer) impregnated with a termite resistant compound barrier installed to manufacturer's specifications.

Perimeter cavity to be protected with a polyester fabric (polymer) impregnated with a termite resistant compound barrier installed to manufacturer's specifications.

All installations to be performed by technician accredited by The White Ant Co Pty Ltd

SAMPLE SPECIFICATION
Residential
PENETRATION, CRITICAL CONSTRUCTION JOINTS AND PERIMETER TERMITE PROTECTION

1. TERMITE MANAGEMENT

All new work shall be protected from termite attack in accordance with the Australian Standard AS 3660.1 “Termite Management” Part 1: New building work.

Comply with typical details included in this specification as appropriate, at all footing slab edges, critical construction joints and slab penetrations.

2. Physical and Chemical in non-soil matrix fabric

Provide physical and chemical in non-soil matrix fabric protection in the following locations:

a) At all conduit pipe or other penetrations through the slab floor.
b) At all construction joints between slabs, or between non continuous pours.
c) At the perimeter, ensuring that the finished ground level is below the barrier.

Installation: in accordance with the manufacturer’s specifications

Proprietary Items: *Protectant*™

Warranty: 15 Years on all structural *(full details in warranty statement)*

3. Slab Protection

The concrete slab shall be considered as a termite barrier in the terms of Australian Standards AS 3660.1 – 2000 section 2.3.1. The following precautions shall be observed.

a) the slab shall be constructed in accordance with Australian Standards: AS 3600 Concrete structures and AS 2870 Residential slabs and footings- Construction.
b) Subsequent rendering and/or repair shall not be permitted without the consent of Termite barrier Installation Company.
c) No conduits, penetrations or pipes shall be installed after the pouring of the slab without prior notification to the Termite barrier installation company. Where such penetrations are unavoidable they shall be protected by retro-fitted termite resistant fabric compound collars and sealed to the top of slab using termite resistant adhesives.

4. Durable Notice

Provide clearly worded durable notice with will be fixed to the building externally (meter box) and internally (kitchen cupboard) stating:

a) type of termite management system
b) areas protected
c) maintenance/ retreatment requirements
d) Installer/manufacturer’s contact details

SAMPLE SPECIFICATION
COMMERCIAL
PENETRATION, CRITICAL CONSTRUCTION JOINTS AND PERIMETER TERMITE PROTECTION

1. GENERAL

1.1 CROSS REFERENCES

General

Refer to the *General Requirements* section:

- Demolition
- Site Preparation
- Earthworks
- Service Trenching
- In-situ Concrete

1.2 STANDARD

General

All new work shall be protected from termite attack in accordance with the Australian Standard AS 3660.1 “Termite Management” Part 1: New building work.

Comply with typical details included in this specification as appropriate, at all footing slab edges, critical construction joints and slab penetrations.

Install a combination of physical and chemical in non-soil matrix fabric and concrete slab barrier.

2. QUALITY

2.1 INSPECTION

Witness points

Give sufficient notice so that inspection may be made of the completed termite management system.

Quality assurance

Refer to the General Requirements.

3. MATERIALS AND COMPONENTS

3.1 Physical and Chemical in non-soil matrix fabric

Provide physical and chemical in non-soil matrix fabric protection in the following locations:

d) At all conduit pipe or other penetrations through the slab floor.
e) At all construction joints between slabs, or between non continuous pours.
f) At the perimeter, ensuring that the finished ground level is below the barrier.

Installation: in accordance with the manufacturer's specifications

Proprietary Items*:* *Protectant*™

Components:
Polyester fabric (polymer) barrier impregnated with a termite resistant compound
PVC minimum 1.00mm with a D shore of better than 80
Termite resistant flexible paste adhesive
Flexible paint adhesive

Warranty: 10 Years with 12 monthly inspections.
(full details in warranty statement)

Slab Protection

The concrete slab shall be considered as a termite barrier in the terms of Australian Standards AS 3660.1 – 2000 section 2.3.1. The following precautions shall be observed.

d) the slab shall be constructed in accordance with Australian Standards: AS 3600 Concrete structures and AS 2870 Residential slabs and footings- Construction.
e) Subsequent rendering and/or repair shall not be permitted without the consent of Termite barrier Installation Company.
f) No conduits, penetrations or pipes shall be installed after the pouring of the slab without prior notification to the Termite barrier installation company. Where such penetrations are unavoidable they shall be protected by retro-fitted termite resistant fabric compound collars and sealed to the top of slab using termite resistant adhesives.

Durable Notice

Provide clearly worded durable notice with will be fixed to the building externally (meter box) and internally (kitchen cupboard) stating:

e) type of termite management system
f) areas protected
g) maintenance/ retreatment requirements
h) Installer/manufacturer's contact details

Who are we?

- A 100% Australian business established in1995 by an established builder who pioneered the development of a unique physical termite barrier system
- Still proudly Australian owned with locally produced quality assured products
- Rapidly expanding nationwide with our barriers in more than 55,000 buildings
- Our research team work with the CSIRO, Department of Primary Industries and other NATA accredited laboratories in an ongoing program to develop new products
- A company that focuses on updating skills and training of all its employees and associates

Until a few years ago we went about our business quietly, focusing mostly on Southeast Queensland and Northern New South Wales in the confidence that when builders try our products they will continue to buy from us……

We now supply to many of Australia's leading builders across three states including: Hotondo Homes, Hallmark Homes,Perry Homes, JG King, Mega Homes, Hamlan Homes, Cavalier Homes, Dennis Family Homes and AV Jennings. Nevertheless, our standards also apply to the individual builder with competitive pricing, quality products and personalised service. Having expanded to meet the needs of national builders allows us to offer you the same service.

How do you and your clients benefit when you choose the *Protectant*™ termite barrier system?

- A barrier system supplied, installed and warranted by the one company and tailored to suit your individual requirements
- A range of systems that hold a CodeMark Certificate of Conformity under the JAS-ANZ Quality management system.
- Quality, patented products with an outstanding durability.
- A support system that combines installers and technical management to ensure minimal disruption to your building schedule
- Backed by a full service Pest Management Division.

This gives you a unique barrier system without compromise

DURABILITY

Preamble

The White Ant Co Pty Ltd saw the practical benefit of testing durability and commissioned Chemskill to advise on a series of trials to demonstrate the durability of the Protect Ant Barrier Systems and its components. These tests are to ensure that the ProtectAnt material will be durable for the design life of the product of at least 50 years.

As part of the process of renewing CSIRO technical opinion 224 and 321, The White Ant Co Pty Ltd were advised by Ecospan Consulting Services Pty Ltd that there was no standard methodology in Australia for the assessment of durability of termite barriers and AS 3660.3-2000 Termite management Part 3: *Assessment criteria for termite management systems* did not contain methodology for testing or assessing durability and as AS 3660.1-2000 Termite management part 1: New building work specifically excludes durability form its scope.

This technical assessment will address whether or not the ProtectAnt substrate, and it's components, will remain durable for the life of the building (i.e., more than 50 years) when installed in accordance with the requirements of The White Ant Co Pty Ltd ProtectAnt™ Installation Manual and the "Statement of Compliance" White Ant Co/ProtectAnt™ Physical Termite System, (EcoSpan Consulting Services Pty Ltd), July 2008 and CSIRO Technical Appraisal 224, June 2005, and CSIRO Technical Appraisal 321, June 2006. A physical barrier system to prevent concealed entry of subterranean termites into building when used with concrete slab on ground, cavity brickwork, brick veneer, concrete masonry, slab pipe penetrations, retaining walls suspended timber floors and construction joints. In the opinion of the "Statement of Compliance" White Ant Co/ProtectAnt™ Physical Termite System, (EcoSpan Consulting Services Pty Ltd) and CSIRO Appraisals, the system described in this Technical Assessment and installed under the conditions listed herein will satisfy the requirements of Australian Standard 3660.1-2000 'Termite management – New building work' as a suitable physical barrier against subterranean termite entry.

Protectant™ Polymer Termite Barrier System.

The White Ant Co Pty Ltd's **Protectant™ Polymer Termite Barrier System** is comprised of the key element Protectant™ Polymer fabric and its components that in the opinion of the "Statement of Compliance" White Ant Co/ProtectAnt™ Physical Termite System, (EcoSpan Consulting Services Pty Ltd), July 2008 and CSIRO Technical Appraisal 321, June 2006, will satisfy the requirements of Australian Standard AS 3660.1 of 2000 Termite Management, Part 1: New building work, as a suitable physical barrier to deter concealed subterranean termite entry by use of a strip shielding made of impregnated geo textile fabric or PVC minimum 1.00mm with a minimum shore "D" hardness of 80. The perimeter barrier is placed to finish at the face of the external brickwork or of the applied finish material and sealed to the slab with The White Ant Co. Pty Ltd approved adhesives or adhesive coatings. The barrier is placed to finish not less than 75mm above finished ground level or not less than 25mm where concrete or similar materials abut the perimeter of the structure. Where it is not possible to achieve a minimum inspection zone of 25mm a secondary barrier must be installed.

The periphery and construction joint barrier of the Protectant™ system are fully bonded with an approved flexible adhesive (ADULETH) to the concrete slab and continuous to the outer face of the external finish of the building unless otherwise specified.
Protectant™ Polymer Termite Barrier System may be cast into a concrete slab prior to pouring.
Slab penetration flanges are bonded to the slab penetration pipe with ADULETH flexible adhesive and held in position on the pipe penetration if necessary (when placed into a thickening beam or similar) by means of a PVC molded collar or a disk of Protectant™ Polymer fabric held in place by the use of a cable tie or similar. The slab penetration flanges are placed at a minimum depth of 100mm below the finished slab height. In the case of a 100mm concrete slab construction the flange is placed mid-slab height. The slab penetration collars may be fitted prior to concrete pouring or retro-fitted.
Construction joints can be sheeted with Protectant™ Polymer fabric fixed to the existing face surface of one concrete slab by way of the use of ADULETH flexible adhesive and then molded into the poured abutting concrete. This forms a continuous barrier within the construction joint. This method of installation can be used with abutting slabs, connely key joints and drilled/sleeved dowel bar joints.
Retaining walls can be sheeted with Protectant™ Polymer fabric fixed to the face surface of retaining wall by way of the use of ADULETH flexible adhesive or the use of ADSOL adhesive paint.

- **Protectant™ Polymer fabric** is a specialised termite resistant geo textile fabric that is made from a polyester fabric (polymer) impregnated with a termite resistant compound. The coating of the geo textile fabric (polymer) is applied as a factory impregnated process.
- **Plastic Collar** are injection molded using Welvic® 61625 RED C0847 is a red coloured, impact-modified, tin-stabilised, unplasticised PVC compound. It is suitable for outdoors application as it contains a UV absorber and all other ingredients used are recommended for applications involving exposure to sunlight. The finished product has a Shore-D hardness of 82.
- **ADULETH** is a termite resistant flexible sealant. This product is manufactured under patent exclusively for The WhiteAnt Co Pty Ltd.
  This product contains Bifenthrin @ 8.8g/L
- **ADSOL** is a termite resistant paint on sealant. This product is manufactured under patent exclusively for The WhiteAnt Co Pty Ltd.

Factors affecting the durability of the components of the Protectant™ and White Ant Co termite barrier systems.

Hardness:

- **Plastic Collar** is an injection molded single piece PVC using Welvic® 61625 RED C0847 is a red coloured, impact-modified, tin-stabilised, unplasticised PVC compound. It is suitable for outdoors application as it contains a UV absorber and all other ingredients used are recommended for applications involving exposure to sunlight. The finished product has a specific gravity of 1.383 and a Shore-D hardness of 82. In the opinion of Welvic Australia Pty Ltd that products mould from 61625 RED C0847 would have a life expectancy of in excess of 50 years.
- **Plastic Tee Abutting Barrier and section for Connely Key** is of unplasticised polyvinyl chloride (PVC) extrusion formulation consisting of not less than 80% PVC and 10% titanium dioxide conforming to AS/NZS 1260-1999, having a specific gravity 1.48 and hardness shore D 82 $\pm$ 1. The Material is TE01H1 is an unplasticised (rigid) PVC compound designed for extrusion. It is suitable for outdoors application as it contains a UV absorber and all other ingredients used are recommended for applications involving exposure to sunlight. This material is used in PVC hot and cold water systems with temperatures experienced in normal usage of up to 85^{o}C. This is far in excess of the temperatures that would be expected within wall cavities, pipe intrusions and other areas of a normal building in which the strip shielding or Tee Section is applied. Thus, this hardness rating would be expected to continue for the life of the building.

- **ADULETH** is a termite resistant flexible sealant. This product is manufactured under patent exclusively for The WhiteAnt Co Pty Ltd. This product contains Bifenthrin @ 8.8g/L. ADULETH is a low modulus, one component, Class A polyurethane sealant. When cured it will form a tough, flexible seal capable of cyclic expansion and compression movement of 50% (+/-25%) of the original joint width. ADUELTH is unaffected by normal weathering conditions such as rain, sunlight, snow, ultra violet radiation, ozone, atmospheric contamination and pollution. Its excellent weatherbility enables it to obtain its original properties would be expected to continue for the life of the building.