REFERENCE MANUAL

DPC

vee joint

Detail section where wall is rendered

Kordon setback 5mm approx

www.kordontmb.com.au
**Termite facts**

- Australia has approximately 300 species of termite, of which about 15 are likely to cause damage to the structural timbers of houses.

- Termites are more closely related to cockroaches than ants.

- Of the three groups of termites (dampwood, drywood and subterranean), subterranean species cause by far the most damage to timber in service.

- The most common are *Coptotermes, Schedorhinotermes, Nasutitermes* and the giant northern termite *Mastotermes darwiniensis*.

- Some species of timber are resistant to termites, but none is termite-proof. In practice, any structure containing wood is exposed to possible subterranean termite invasion unless protective measures are taken.

- Termites will often damage materials they cannot digest such as plastics, rubber, metal or mortar. Primarily, this damage occurs when the indigestible items are encountered in the termites' search for food.

- Apart from a few grass-eating species which forage in the open, all termites remain within a closed system of underground galleries or covered runways that extend from the central nest to food sources above or below ground.

- The gallery system of a single colony may exploit food sources over as much as one hectare, with individual galleries extending for up to 50 metres.

- Each termite colony is divided into three castes: workers, soldiers and the reproductive or alate caste.

- The alates are the potential kings and queens of new colonies. Unlike the other two castes, they have eyes, functional reproductive systems and wings. They leave the colony in swarms from spring to early summer or late summer to autumn.

- Traces of swarming alates are among the few obvious signs of termite activity. They normally swarm at dusk and may be attracted to lights at night, and are commonly found in spider webs.
Australia’s only repellent physical termite barrier

Kordon Termite Barrier is a uniquely flexible building protection tool that provides a combined physical and chemical termite barrier – and can easily be moulded or cut and joined to fit complex design features.

Complete underslab installation of Kordon provides an impermeable moisture barrier for the entire building as well.

Developed in Australia, Kordon is backed by the global resources of Bayer Environmental Science – the world’s largest environmental science business group and most innovative source of responsible pest and disease management solutions.

Over 15 years of assessment by Bayer, Kordon has achieved 100% success as a physical termite barrier. Kordon has also been tested and evaluated by the CSIRO, State Forestry Departments, State Building Authorities and experts in building design.

When correctly installed, Kordon is covered by a 10-year warranty. This manual shows all the different ways in which Kordon can be installed to ensure that the warranty is valid – and that Kordon can be expected to remain effective for over 50 years. In the next few pages you will also find a brief explanation of how Kordon works and contact details for accredited installers in all areas.

www.kordontmb.com.au
How Kordon works

Kordon contains deltamethrin, a synthetic pyrethroid that kills termites which come into contact with it. Equally importantly, though, deltamethrin is a powerful termite repellent, so termites are very unlikely even to approach the barrier and attempt to breach it.

The deltamethrin is impregnated into a fibrous webbing which is then laminated on both sides.

The top orange 200-micron plastic layer provides the moisture vapour barrier, while the bottom black plastic layer encapsulates, protects and completes the physical termite barrier.

Kordon is classified as a building product and it is approved for use in local government areas where soil termiticide treatments have been prohibited.

www.kordontmb.com.au
Backed by Bayer

The extensive testing of Kordon by Bayer and various independent authorities has established that the barrier should remain effective for over 50 years – the commercial life of a building.

Bayer back those findings with Kordon’s 10-year $100,000 structural timber replacement warranty against termite penetration when correctly installed by a currently accredited Kordon installer.

Once the building project is completed, Bayer and the accredited installer provide a complete set of documentation to the building owner. These documents include:

- the **Kordon 10-year Warranty**;
- a **Certificate of Compliance** to Australian Standard 3660.1-2000 and the manufacturer’s specifications;
- an **Installation Report** detailing exactly where Kordon has been installed; and
- the **Annual Inspection Sticker** to record the date of regular inspections.

In addition, Kordon is certified by the Australian Building Codes Board – certification number 2003/001 – and has been tested and approved for use in ‘allergen-free’ construction.

www.kordontmb.com.au
Compliance

Kordon TMB and Kordon Termite Barrier are Alternative Solutions under the Building Code of Australia, with the Assessment Method being that evidence is available that the use of Kordon TMB or Kordon Termite Barrier meets a Performance Requirement or a Deemed-to-Satisfy Provision.


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<tr>
<th>Reference</th>
<th>Requirement</th>
<th>Evidence of suitability</th>
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<tr>
<td>AS 3660.1: C1 2.3.4</td>
<td>Termite resistant barrier.</td>
<td>ABSAC Technical Opinion 216: Kordon TMB satisfies the requirements of the BCA for protection from termites.</td>
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<tr>
<td>AS 3660.1: C1 2.3.4</td>
<td>Termite barrier consists of a product registered by the NRA for that purpose.</td>
<td>NRA Approval 48772/01: Kordon MC for application in production of Kordon TMB to protect buildings under construction from subterranean termite attack.</td>
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<tr>
<td>AS 3660.1: C1 2.2.1</td>
<td>Barrier system deters concealed entry.</td>
<td>ABSAC Technical Opinion 216 and CSIRO Appraisal 255: Installation instructions as provided by the manufacturer.</td>
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<td>AS 2870: C1 5.3.3</td>
<td>Provision of a vapour barrier or a damp-proofing membrane.</td>
<td>ABSAC Technical Opinion 216: Kordon TMB satisfies the requirements of the BCA for damp proofing of floors on ground.</td>
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<tr>
<td>BCA vol 2, Qld variation P2. 1.1</td>
<td>Termite barrier to be durable.</td>
<td>ABSAC Technical Opinion 216 and CSIRO Appraisals Technical Assessment 255, on Durability: “These tests enable (Bayer) to claim effectiveness approaching the highly effective but environmentally unacceptable organochlorines”; “…results have been extrapolated for long time efficacy up to 50 years”.</td>
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Suggested specification details

Item: **TERMITE CONTROL**

KORDON TERMITE BARRIER is to be used as a Perimeter and Service Penetration system (AS 3660.1-2000)

It is to be installed by a Manufacturer’s Accredited Installer, as per the Manufacturer's installation instructions.

The builder is to provide all relevant slab details to the Accredited Installer for pricing, etc.

The builder is to treat the building’s termite protection as a part of the building process and therefore included in the construction program.

Item: **TERMITE CONTROL AND MOISTURE BARRIER**

KORDON TERMITE MOISTURE BARRIER is to be used as termite protection (AS 3660.1-2000) and as a damp-proof membrane as per AS 2870.

It is to be installed by a Manufacturer’s Accredited Installer as per the Manufacturer's installation instructions.

The builder is to provide all relevant slab details to the Accredited Installer for pricing, etc.

The builder is to treat the building’s termite protection as a part of the building process and therefore included in the construction program.
Accredited installers

AUSTRALIAN CAPITAL TERRITORY

ACT/NSW  Termi-Proof Pty Ltd
        Ken Hill                    0427 755 634

ACT/NSW  Safeguard Termite Barriers
        Michael Shaw               1300 855 822

Canberra Critter Ridder
        Colin Wilkinson             02 6292 6471

NEW SOUTH WALES

Ballina Amalgamated Pest Control
        John Murray                 02 6686 6511

Ballina Pestcull
        Cliff Reynolds              02 6686 2004

Ballina/Tweed Heads Craig Pruul Pest Management
        Craig Pruul                 02 6680 1627

Bomaderry Amalgamated Pest Control
        Mark Boyle                  02 4422 8444

Coffs Harbour Amalgamated Pest Control
        Robert Minogue              02 6652 4306

Coffs Harbour Banana Coast Pest Control
        Graeme Hardaker             02 6653 8556

Dubbo PreVent Termites Pty Ltd
        Warwick Green               02 6341 3331

Grafton Amalgamated Pest Control
        Bruce Jackson               02 6644 6288

Kempsey Mid Coast Pest Management
        Alec Reilly                 02 6562 1515
## NEW SOUTH WALES (continued)

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<tr>
<td>Lismore</td>
<td>Amalgamated Pest Control</td>
<td>Max Barton</td>
<td>02 6624 8800</td>
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<td>Lismore</td>
<td>S &amp; M Pest Control</td>
<td>Stewart Pearson</td>
<td>02 6682 2487</td>
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<td>Lee Fleming</td>
<td>02 6568 9566</td>
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<tr>
<td>Newcastle/Central Coast</td>
<td>Advanced Pest Control</td>
<td>Peter Copas</td>
<td>02 4962 5875</td>
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<td>Parramatta</td>
<td>Heritage Pest Control Pty Ltd</td>
<td>Dale Rigger</td>
<td>1300 669 990</td>
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<td>Port MacQuarie</td>
<td>Amalgamated Pest Control</td>
<td>Tony Wilcox</td>
<td>02 6581 3813</td>
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<tr>
<td>Port Stevens/Newcastle</td>
<td>Advanced Pest Control</td>
<td>Reg Chilby</td>
<td>02 4982 2866</td>
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<td>Snowy Mountains</td>
<td>High Country Pest Control</td>
<td>Larry Waddell</td>
<td>02 6457 8217</td>
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<td>Bret McManus</td>
<td>02 4448 5444</td>
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<td>Laurie Smith</td>
<td>02 6494 1118</td>
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<td>Sydney/NSW</td>
<td>Orange Protector Pty Ltd</td>
<td>Barry Slattery</td>
<td>1300 888 638</td>
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<td>Michael Shaw</td>
<td>1300 855 822</td>
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<td>Sydney</td>
<td>Alliance First</td>
<td>John Parkins</td>
<td>1800 886 186</td>
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<td>Greg Moon</td>
<td>02 8787 1111</td>
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<td>Mark Hopping</td>
<td>02 9521 3377</td>
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<td>Ray Woods</td>
<td>02 9602 6888</td>
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<td>Wagga Wagga</td>
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<td>Peter Pratt</td>
<td>02 6925 0198</td>
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<td>Wollongong</td>
<td>Advanced Pest Control</td>
<td>Bill Richards</td>
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**NORTHERN TERRITORY**

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<td>Quality Pest Control</td>
<td>Barry Johnson</td>
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<td>Northern Territory</td>
<td>Rapid Pest Control</td>
<td>Darren Vickers</td>
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**QUEENSLAND**

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<td>Pestkil Pty Ltd</td>
<td>John Lappin</td>
<td>0408 661 177</td>
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<td>Luke Taylor</td>
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<td>Savco Pest &amp; Weed Control</td>
<td>Simon Savige</td>
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QUEENSLAND (continued)

Kingaroy  Amalgamated Pest Control
Bradley Graham  07 4162 5030

Longreach  Amalgamated Pest Control
Victor Preston  07 4658 1771

Mackay  Amalgamated Pest Control
Glenn Lovett  07 4955 4466

Mackay  Natraspray
Colin Easton  07 4942 6166

Maleny  Amalgamated Pest Control
Raymond Farrell  07 5429 6329

Mareeba/Tablelands  Amalgamated Pest Control
Darrell Turner  07 4097 6438

Maryborough/Hervey Bay  Hervey Bay Pest Control
Darren Loveridge  07 4128 9141

Maryborough/Hervey Bay  Natures Pest Management
Stuart Leigh  07 4124 0499

Mossman  Douglas Shire Pest Control
Glenn Koch  07 4098 2801

Nanango  Patrick Collins Pest Control
Patrick Collins  07 4163 2179

Port Douglas  Amalgamated Pest Control
Andy Brooking  07 4098 7941

Ravenshoe/Tablelands  Amalgamated Pest Control
Eddie Turner  07 4097 6438

Rockhampton  Amalgamated Pest Control
Jerome Jackson  07 4921 4399

Rockhampton  Natraspray
Mark Mitchell  07 4927 0712

Southern Queensland  Bushman’s Pest Control
Jamie Beaumont  07 4163 3275

Southern Queensland  Pestek
Anthony Alexander  07 4662 5077

Stanthorpe  Beckett’s Pest Control
Bill Beckett  07 4681 3466
Sunshine Coast
Culbara Pest Control
Ross Beinke 07 5444 1952

Sunshine Coast
Little Mountain Pest Control
Pat Lavelle 07 5494 5885

Sunshine Coast
Pest Busters
Peter Hayman 07 5443 3909

Sunshine Coast
Shorty’s Pre-treat & Pest Control
Phillip Short 07 5446 0881

Sunshine Coast/Noosa
Termite Barrier Systems
Robert Read 07 5474 4448

Tin Can Bay
Cooloola Pest Control
Michael Harrison 07 5468 4633

Toowoomba/SE Queensland
Town & Country Pest Control
David Cole 07 4636 3200

Toowoomba
Amalgamated Pest Control
Royce Hodge 07 4632 7644

Toowoomba
Savco Pest & Weed Control
Keiran Mortimer 07 4634 7777

Townsville
Amalgamated Pest Control
Ken West 07 4779 3955

Townsville
Environ Enterprises
Gill Christiansen 07 4728 1610

Tully
Amalgamated Pest Control
Mark Kars 07 4068 9069

Warwick
Warwick Pest Control
David Cole 07 4667 0670
## SOUTH AUSTRALIA

<table>
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<th>Location</th>
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<th>Contact Person</th>
<th>Phone</th>
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<tr>
<td>Adelaide</td>
<td>Allstate Pest Control</td>
<td>Peter Tsoutouras</td>
<td>08 8371 1277</td>
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<td>Adelaide</td>
<td>Complete Pest Control</td>
<td>Ross Robertson</td>
<td>08 8359 1511</td>
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<td>Adelaide</td>
<td>Our Earth Pest Control</td>
<td>Roger Richter</td>
<td>08 8234 2788</td>
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<td>Adelaide</td>
<td>Physical Termite Barriers</td>
<td>John Hoskin</td>
<td>08 8235 2634</td>
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<td>Barossa Valley</td>
<td>Murray Pest Control – Barossa</td>
<td>Kevin Rayner</td>
<td>08 8562 2822</td>
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<tr>
<td>Murray Bridge</td>
<td>Terminix Pest &amp; Weed Control</td>
<td>Ashley Carter</td>
<td>08 8532 1493</td>
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## VICTORIA

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<tr>
<td>Albury/Wodonga, Wangaratta &amp; Northern Victoria</td>
<td>Economic Pest Control</td>
<td>Steve Ackerly</td>
<td>1300 655 774</td>
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<tr>
<td>Central &amp; Northern VIC</td>
<td>Ridleys Pest Control</td>
<td>David Hodgens</td>
<td>03 5480 2155</td>
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<td>Knights Pest Control</td>
<td>Leigh Knight</td>
<td>03 5449 6152</td>
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<td>Horsham</td>
<td>D &amp; S M Meadows</td>
<td>Daryl Meadows</td>
<td>03 5382 4986</td>
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<td>Melbourne</td>
<td>King-Hit Pest Control</td>
<td>Roger King</td>
<td>03 9852 1234</td>
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<td>Natural Pest Control</td>
<td>David Odgers</td>
<td>03 9390 6555</td>
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<td>Melbourne, Geelong, Mornington Peninsula, Regional</td>
<td>Trimec Pty Ltd</td>
<td>Paul Harris</td>
<td>1800 133 393</td>
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<td>Mildura</td>
<td>Mildura &amp; District Pest Control</td>
<td>Les O’Connor</td>
<td>03 5024 6929</td>
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<td>03 5987 1787</td>
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<td>South Gippsland Pest Control</td>
<td>Russell Graham</td>
<td>03 5657 3300</td>
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<td>Trevor Ward</td>
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<td>Kelvin Knapton</td>
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<td>Julian Little</td>
<td>08 9093 2809</td>
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<td>John Zanik</td>
<td>08 9185 5553</td>
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<td>Alan Price</td>
<td>08 9581 5806</td>
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<td>08 9965 3330</td>
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<td>08 9328 2678</td>
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<td>08 9444 0550</td>
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<td>Kimberley Lawrence</td>
<td>08 9248 9929</td>
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<td>Richard Slee</td>
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<td>Southern WA</td>
<td>Murray River North Pty Ltd</td>
<td>Ian Mclarty</td>
<td>08 9531 2033</td>
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</table>
110mm brick outer leaf

block or timber frame

DPC

KORDON TMB
for termite & moisture barrier

section

ground line

KORDON TMB
for termite & moisture barrier

if required Kordon is to be kept within 75mm of starter bars this would enable a concrete ‘cold’ joint

section detail 1

ground line

section detail 2

ground line

KORDON TMB
for termite & moisture barrier

see detail on slab penetrations protected with Kordon collars

full under slab
section detail 3

section detail 4
insulating material used
concrete kerb providing protection at ground level to Kordon. Kordon to be "fixed" to external cladding with 3M "Super 77" adhesive or similar approved product

section detail 5
non-monolithic slab

section detail 6
insulation type cladding

KORDON TMB
for termite & moisture barrier
Photo 1

Photo 2
waffle pods

Photo 3
deep trenching

full under slab
section detail 1
1 brick rebate

section detail 2
2 brick rebate

section detail 3
waffle pod

section detail 4
infill slab

perimeter slab
2 slab levels

Kordon cut to allow "cold" joint surround of 75mm

Tie down rod

Line of Kordon & block

Slab edge

Alternative plan detail depending on engineers specification

Notes:
- Step downs should be completely protected with Kordon TB

Sketch shows a particular type of "step down" installation. There are a number of variations which also follow the basic design criteria of Kordon TB.

Kordon 200mm wide fully under block

Starter / reinforcing bar
Before installing Kordon TB, clean off all excess mortar from the top of the third layer of bricks and to the vertical of the internal brickwork. This is to allow the Kordon TB to be sandwiched between the concrete slab and the brickwork, without unnecessary undulations.

Install 400mm approx length of Kordon TB to internal corner as shown. Product to sit on footing a minimum of 75mm from starter bar. Secure to brickwork with clouts into mortar joints.

Install 300mm Kordon TB to external perimeter of brickwork and cut vertically at internal corner. Tape to existing corner piece. Secure clouts into mortar both horizontally and vertically.

Install 300mm Kordon TB to other side of brickwork, taping product with a minimum of 50mm overlap and secure as above.
FC sheet / weatherboard cladding
sisalation
bottom plate
KORDON TB

internal wall lining
skirting board
flooring

ground line 75 mm
THE PROCESS IN STAGES:-

- Protect service penetrations paying particular attention to service inlets eg power, water etc - refer kd 009
- After the pour, chalk lines for positioning of timber frames to be in place before commencing installation.
- Install Kordon to service inlets refer kd 009,
- Determine the width of Kordon required by communicating with the builder/ bricklayer as to how many bricks are to be installed to the footing to get to DPC level. Keep in mind this may vary due to step downs - plan ahead, decisions at this stage will have a bearing on the following installation stages.
- Install Kordon to the chalk lines by fixing to the slab with approx 15 mm concrete nails @ maximum of 350 mm centres.
  - 3M spray adhesive or similar approved adhesive may be used only as an extra
- Ensure you nail the corner overlaps together so as to minimise Kordon movement when timber frames are stood
- Ensure you allow enough overlap for areas such as bay windows and nail these overlaps together to minimise Kordon movement when timber frames are stood
- Nailing with power tools is an option, be aware that the nail heads must finish flush with the slab, so as not to create gaps or undulations when the frames are stood and care should be taken not to damage the slab edges
- The bricklayer now lays the bricks to the footing to the height of the DPC level.
- You are now required to install the Kordon to the brickwork setting the corners as per your installation details.
- These corners, including bay window situations are to be fixed with both 3M spray adhesive or similar approved adhesive, and a quality cloth tape
- A 3–4 mm strip of 3M Spray Adhesive to the brick edge will keep the Kordon in place.
- Attention to sill/entry/sliding doors, refer to kd048b - kd048c
- At this stage you are now in a position to check your perimeter installation and note if any disturbance has taken place, and extra plumbing / services pipes have not been added which will require rectification.
- You now remove any off-cuts and note if you will be required to make any further site visit. eg. to install Kordon across the driveway, wheel chair access, patios, columns etc
- Place the meter box sticker only after you have completed the installation and are prepared to sign it off.
1. Incorrect installation - Kordon TB not installed to frame chalk line

2. Kordon TB with timber frames in place

3 & 4. Kordon TB pinned to frame whilst bricks are laid to Damp Proof Course level

5 & 6. Kordon TB secured to outer brick edge with spray adhesive/clouts

7 & 8. External, internal corners, overlapped, folded, secured with spray adhesive and cloth tape.

kd 005b perimeter installation detail
Knock out block work
This installation procedure refers to situations where tie down rods are visible after the concrete pour. The alternate plan detail is dependent on the engineer’s specification.
- Install approx 150mm width strip of Kordon TB to top of slab edge, cutting the product from the inside to allow for the tie down rod.
- Wrap a 20mm X100mm strip of Kordon TB to the base of each rod and secure with a zip tie.
- Install a patch of Kordon TB approx 100mm X 100mm. Using a 6mm wad punch insert overlap. Tape the product as indicated in the photo attached.
- Electrical and communication service points must be protected as per normal pipe installation details.

RENDERED BRICK AND BLOCKWORK.
Where a rendered finish is specified the following is recommended:
- A "V" (vee) joint is applied at the Kordon TB /DPC level
- A mechanical joint is applied at the Kordon TB /DPC level.
Note:
where rendering occurs Kordon TB a 'vee joint' is recommended render may vary according to geographic locations eg reactive soil sites

Detail section
where wall is rendered

kordon TB 150mm wide covering where concrete slab joints block

knock-out block

ground line

starter / reinforcing bar

concrete strip footing

DPC

vee joint

Detail section
Kordon set back 5mm where recessed pointing

render

cut Kordon TB away from area around tie down rod

tie down rod

line of Kordon TB & block

slab edge
Note:
it is important to ensure that Kordon TB cover all perforations within wirecut bricks or blockwork.

ISOMETRIC

see detail

ground line

75mm

Kordon TB set back 3mm approximately where recessed pointing / raking occurs

Note:
rendered wall refer to 008/d

Detail

brick facade detail
Product required for one slab pipe penetration:
- 2 x 300mm x 300mm Kordon TB patches
- 2 x 450mm cable ties
- 1 x 40mm x 400mm Kordon TB collar strip
- quality duct tape

2. cut a cross in centre of patch, slide patch over pipe
3. secure Kordon collar strip to pipe over lap patch turn up
4. complete collar with duct tape
5. prepare 2nd patch fold in half twice

6. press firmly folded corner over 1/3th of pipe diameter
7. check rim indent is visible
8. cut along rim indent with quality scissors

9. push patch over pipe this should be a tight fit
10. 2nd patch should produce a turn up lip at base of pipe
11. 1st zip tie secured at the turn up lip level
12. secure 2nd zip tie to top of pipe collar

13. trim zip tie extensions
14. complete tape down
15. complete patch tape down
16. remove off cuts from site

Kordon TB pipe penetration installation

kd 008/p
**section type 1**

**section type 2**

**Notes:**
- wrap Kordon TB around (with overlap) electrical conduits penetrating the slab at length of 300mm approx.
- Kordon TB should be visible after the pour on any conduit / water pipe.
- a cable tie is to be secured at the start and at the finish of the wrap
- where possible place a 300x300 Kordon TB patch at the base of the slab penetration.
- where a cluster of conduits are installed - each conduit must be wrapped separately as above.
Kordon Kollar & slab pipe penetration

Kordon Kollar
place Kordon Kollar over pipe until Kollar flange sits on the plastic membrane

place first zip tie base of collar and tighten overlap each side 100mm dia pipe

place second zip tie 50mm approx higher then first zip tie

plan
pipe centre line
cable ties
plastic moisture membrane

section before concrete pour
cable ties
concrete slab poured to AS2870 surround pipe penetration

section after concrete pour

Kordon Kollar installation
Step 1:
place Kordon Kollar over pipe slide down to the DPM plastic
Step 2:
secure first zip tie to base of kollar, secure second zip tie 50mm higher then first
Note:
The sketch above shows a renovation to an existing building.

it is strongly recommended that the existing building has a termite inspection before any new works.
Builder to provide FC Sheeting as protection for barriers outside.

Kordon TB on face of retaining wall.
KORDON TMB
Full under slab treatment

KORDON TB
on face of retaining wall

Builder to provide FC Sheet as protection for barriers

the use of an adhesive spray to assist Kordon TB installation is recommended where Kordon TB is use in conjuction with tanking products.

back fill

KORDON TMB
Full under slab treatment
the use of an adhesive spray to assist Kordon TB installation is recommended where Kordon TB is use in conjunction with tanking products.

Kordon collar 40mm to each reinforcing bar
Kordon patch 150x100 and Kordon collar to each reinforcing bar
Kordon 190mm wide fully under block
the use of an adhesive spray to assist Kordon TB installation is recommended where Kordon TB is use in conjunction with tanking products.

**KORDON TB**
- It is recommended to have a conc kerb / mowing strip or pavers to secure the Kordon in place
- On face of retaining wall
- Builder to provide FC Sheetig as protection for barriers

secure Kordon behind skirting board if possible

**KORDON TB**
Note:
in the above installation, Kordon TB would be installed using additional installation tools of adhesive spray and Hoop iron bracing.
Photo 1
Kordon TB - full retaining wall

Photo 2
Kordon TB - retaining/stepdown

Photo 3
Kordon TB - internal wall treated
new extension to existing wall

Notes:
where a 'zero' abutment or building extension occurs Kordon TB can be used effectively to protect the new building from termite infestation from the existing structure.
A number of additional Kordon installation tools and principles are required for this specific type of installation

- 'hoop iron' bracing is required to create a secure permanent fixing for the Kordon TB to the existing structure. to be applied along the 50mm overlap lines.
- adhesive spray can also be used to aid ‘tie down’ ot the product, especially where strong winds may occur.

kordon TB
installed by an accredited Kordon installer

existing building

new building

photo 1
showing existing structure with Kordon TB secured as per sketch
'Robertson Formawall 1000' external wall cladding

Ground line

Kordon TB wrapped around slab edge

Kordon TB treated as a slab penetration refer to kordon sketch titled "Conduits"
KORDON TB wrapped as shown

steel column

ground line

KORDON wrapped as shown

section

plan

commercial – detail 3  kd 033
Photo 1
Kordon TB - commercial building

commercial – detail 5
KORDON TB on face of retaining wall

Builder to provide FC Sheetin as protection for barriers

Break-out block

Reinforced concrete block wall
the use of an adhesive spray to assist Kordon TB installation is recommended where Kordon TB against outside slab edge.

KORDON TB

steel column beyond
precast wall panel
outside concrete paving

KORDON TB

kd 038

commercial – detail 8
KORDON TB
wrapped as shown

Rammed earth wall

ground line

KORDON TB
wrapped as shown

ground line

commercial – detail 9
**section detail 1**
high paving level

photo 1
garage entry detail
secured with the aid of 3M "super 77" spray or similar
Note:
where various slab conditions prevail i.e. rough or damaged:-
It is important to establish a full seal to the perimeter is achieved

**section detail 2**
driveway

**perimeter paving/slab**

**KORDON TB**
30mm fold back
note: expansion material also protected by Kordon TB

**KORDON TB**
secured with the aid of 3M "super 77" spray (or similar) and/or a perforated 30mm wide 'hoop iron' or similar metal brace stripping

**DPC**

**block or timber frame**

**brick or block outer leaf**

**KORDON TB**
secured with the aid of 3M "super 77" spray (or similar) and/or a perforated 30mm wide 'hoop iron' or similar metal brace stripping
alternatively with the permission of the neighbouring property owners Kordon TB can be fixed directly to the neighbour’s wall with the aid of “hoop iron” bracing and adhesive spray.

KORDON TB to be secured under capping

KORDON TB to be secured by way of a continuous .8mm gauge perforated galvanised metal strip @1500mm minimum ctrs

neighbour’s building

KORDON TB taped to DPM

boundary wall
Alternatively with the permission of the neighbouring property owners Kordon TB can be fixed directly to the neighbours wall with the aid of "hoop iron" bracing and adhesive spray.
The sketch below shows an existing slab floor to a factory. The expansion material has deteriorated over time and is in need of replacing. It was suggested that in replacing the expansion material Kordon TB could be installed to assist in the prevention of concealed termite entry.

**Section Detail 1**
- New expansion joint

**Section Detail 2**
- New expansion joint around existing column
Note:

before any new work commences it is a condition of Australian building standards to have completed a termite inspection of the existing structure.
existing building

New skirting board

New timber floor

New floor joist

New bearer

EXISTING SLAB

KORDON TB
laid full under new timber
flooring up behind
new skirting board
existing building

New skirting board

New timber floor

floor bed material

EXISTING SLAB

KORDON T8

laid full under new timber flooring up behind new skirting board

the use of an adhesive spray is recommended to assist in securing the Kordon T8 installation

a minimum of 50mm overlap is required at Kordon T8 joints
Kordon installed to brickwork, where a sill tile/brick/half brick is secured on top of Kordon.

These tiles etc may move, or be displaced, in particular when the vertical face of the sill is minimal, thus not allowing much room for the sand and cement bed to be placed before installing the sill tile.

The superseded installation detail kd052 will "deter concealed termite access” however it appears that in some cases, the detail is being misinterpreted, with the product in some instances being removed completely off the sill, which is not acceptable. The tilers / bricklayers have to be aware of the necessity for the barrier not to be tampered with.

Kordon is to be secured to the brickwork and only installed off the external brick line if the face brickwork is to be raked.

This installation will provide an effective barrier.
Sill tile details

1. Incorrect Kordon TB installation. Refer kd 001 and product design principle.

2. Renderlok secured to masonry with approved concrete nails. - (15mm length preferred)

3. Close up of 5.

4. If tiling is to extend to slab edge Kordon TB is installed as shown - secured with gal hoop-iron/strapping.

5. Renderlok secured to horizontal & vertical to accommodate tiling specification.

6. Close up of 5.
Note:
on engaged and isolated piers
it is recommend to use a ant cap on top of Kordon
to help prevent bearers damaging Kordon
brick veneer – bearers & joist

KORDON TB
installed to brickwork under DPC (if required)
continuous to engaged pier
Note: metal antcap to engaged pier only.

KORDON TB
installed under ant capping

counter pier

counter bearing
counter apron wall

ground line
KORDON TB
- to be installed by an accredited Kordon installer.

FGL
- 50 min.
- DPC
- allow to coat exposed concrete to match wall
- refer to detail 6.1.8 for alternative designs

timber or steel stud frame
- 100 min.

R.C. slab
- 100 min.

KORDON TB
- to be installed by an accredited Kordon installer.

R.C. footing
- 250 max.

timber or steel stud frame
- R.C. slab

KORDON TB
- to be installed by an accredited Kordon installer.

R.C. slab
- hebel veneer tie at 600 c/c horizontally
- 75mm thick hebel blocks to infill below panels to suit

DPC
- fill

brickwork to underside of slab
- R.C. STRIP FOOTING

hebel

kd 054
DYNABOLT 100x75x8 GALVANISED ANGLE TO PIERS (MAX. 2M CENTRES) WITH 1M12 AT EACH END MINIMUM BEARING OF PANEL ON ANGLE IS 40mm

Kordon TB to be installed by an accredited Kordon installer.

NOTE: this material has to be termite proof under the Australian standards.

FGL

3/14 x 10 x 65 HEX TYPE 17 SCREWS AT EACH END PER PANEL

80x50 x 1.5 GALVANISED ANGLE. M6 DYNABOLT @ 600 CTS (2 MIN)

COAT WITH BITUMEN BASED WATERPROOF PAINT WHERE IN CONTACT WITH GROUND

Kordon TB to be installed by an accredited Kordon installer.

14-10 x 65 HEX TYPE 17 SCREW 3 PER PANEL, 50 EDGE DISTANCE

80 x 50 x 1.5 GALVANISED ANGLE

OR

Kordon TB to be installed by an accredited Kordon installer.

DYNABOLT OR POWERFIX TO FLOOR

REINFORCED CONCRETE SLAB

ALLOW TO COAT EXPOSED CONCRETE TO MATCH WALL

PACKING AS REQUIRED

REINFORCED CONCRETE FOOTING
KORDON TB to be installed by an accredited Kordon installer.

E X I S T I N G  B R I C K
S U B W A L L  &
F O O T I N G

100x75x8 GAL ANGLE
M8 DYNABOLT ANGLE
TO BRICKWALL AT 900
CENTRES BY BUILDER

FGL

T I M B E R  O R
S T E E L  S T U D
F R A M E

T I M B E R  F L O O R
S T R U C T U R E

100
min.

200x50 HEBEL BLOCK
GLUED TO PANEL

35mm GAP TO ALLOW
FOR SHRINKAGE IN
TIMBER FLOOR

B R I C K W O R K  T O
U N D E R S I D E  O F
P O W E R P A N E L

E N G A G E D
B R I C K  P I E R S

FGL

R.C STRIP FOOTING

KORDON TB to be installed by an accredited Kordon installer.

kD 057
Kordon Major Project list

The following projects and builders have selected Kordon Termite Barrier as their termite management system.

Laverick Army Barracks  
– Townsville – QLD  
**Builder – Theiss Constructions**

Adelaide Wine Centre – SA  
**Builder – Hansen & Yuncken**

Kempsey Correctional Centre – NSW  
**Builder – Holland & Leahy Construction**

Aldi Distribution Centre  
– Minchinbury – NSW  
**Builder – Walter Construction**

Yeronga TAFE College – QLD  
**Builder – Boulderstone Hornibrook**

Wollongong Hospital  
(Extension) – NSW  
**Builder – John Holland**

Croydon 24 hour Police Station – VIC  
**Builder – ADCO Constructions**

DNRE Building – Bendigo – VIC  
**Builder – Kane Construction**

Maryborough Hospital  
(Extension) – VIC  
**Builder – Kane Construction**

Ansto Nuclear Plant – Lucas Heights – NSW  
**Builder – Holland Constructions**

Coomera P12 Public School  
**Builder – Walter Construction**

Prince Alfred Hospital Brisbane – QLD  
**Builder – AW Edwards**

Southport School Science Block  
**Builder – DCA Project Services Aust**

Defence Housing – ACT  
**Builder – Defence Housing**

South Australian Housing Trust – SA  
**Builder – South Australian Housing Trust**

Landsvale Public School – NSW  
**Builder – Dept of Public Works**

Qantas Flight Training Centre – VIC  
**Builder – Leighton Construction**

Ipswich Grammar School – QLD  
**Builder – Glenlea Building Projects**

CSIRO Complex – Gatton – QLD  
**Builder – Vic Salomon Constructions**

St Catherine’s School Sports Centre – Randwick – NSW  
**Builder – Infinity Constructions**

University of Western Sydney – NSW  
**Builder – St Hillier’s**
This document is to certify that the Kordon TMB / TB system was installed by a Bayer Accredited Installer and has been completed in accordance with the Manufacturer's specifications. Kordon TMB / TB complies with AS 3660.1 - 2000, the primary referenced standard of the Building Code of Australia. Kordon TB is only part of a termite management system for a new property. The slab must be constructed in accordance with the Standard; Residential Slabs and Footings Construction, AS 2870-1996.

NOTE: This is to be attached to Warranty Document Number: warrantyNumber

<table>
<thead>
<tr>
<th>Installation Address:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>address1</td>
<td></td>
</tr>
<tr>
<td>address2</td>
<td></td>
</tr>
<tr>
<td>address3</td>
<td></td>
</tr>
<tr>
<td>address4</td>
<td></td>
</tr>
</tbody>
</table>

| Installation Date: | 10/03/2004 |

Legend:
Bayer Environmental Science

**Certificate of Compliance**

This document is to certify that the Kordon TMB / TB system was installed by a Bayer Accredited Installer and has been completed in accordance with the Manufacturer's specifications. Kordon TMB / TB complies with AS 3660.1 - 2000, the primary referenced standard of the Building Code of Australia. Kordon TB is only part of a termite management system for a new property. The slab must be constructed in accordance with the Standard; Residential Slabs and Footings Construction, AS 2870-1996

**NOTE:** This is to be attached to Warranty Document Number: warrantyNumber

<table>
<thead>
<tr>
<th>Installation</th>
<th>Address1</th>
<th>Installation Date: 10/03/2004</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address:</td>
<td>address1</td>
<td>Phone Number: 0344445555</td>
</tr>
<tr>
<td>Builder:</td>
<td>buildename</td>
<td>Phone Number: 0399998888</td>
</tr>
<tr>
<td>Owner:</td>
<td>ownername</td>
<td>Phone Number: 0377776666</td>
</tr>
<tr>
<td>Local Council:</td>
<td>councilname</td>
<td></td>
</tr>
<tr>
<td>Job Type:</td>
<td>jobtypedesc</td>
<td></td>
</tr>
<tr>
<td>Total square metres installed: 10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of service penetrations protected: 5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product punctures repaired where/if necessary: Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Company Contact: companycontact

Installer's Name: installersname

Company Name: companyname

Address: address

City

StateOrProvince

Post Code: PostalCode

Authorised Signature: AuthorisedSignature

Date: 10/3/2004

Comments: CertificateComments

Bayer Environmental Science, 391-393 Tooronga Rd, Hawthorn East, VIC, 3123
This warranty is granted by Bayer Environmental Science ("Bayer") (ACN 000 226 022) of 391-393 Tooronga Road East Hawthorn Victoria in respect of the installation of Kordon Termite Barrier ("Kordon") in the Building.

Warranty No. warrantyNumber

This Warranty covers damage by Subterranean Termites ("Termites") only.

Bayer warrants that Kordon shall restrict the entry of Termites into the Building through the Kordon barrier for a period of ten (10) years from the date of installation ("Warranty Period"). This Warranty covers damage by Termites to structural timbers and internal timbers BUT DOES NOT INCLUDE damage by Termites to:

(a) chattels of any nature whatsoever including (but without limiting the foregoing) antiques, heirlooms, paintings, artwork; and

(b) any pergolas, wiring, extensions to the Building and outhouses.

If Termite infestation of the Building occurs as a result of the failure of the Kordon and damage by Termites is caused to structural timbers and/or internal timbers fixtures and fittings during the Warranty Period, Bayer will without charge to the Owner:

(a) repair the Kordon barrier where practicable;

(b) cause the repair or replacement of structural timbers and/or internal timbers so damaged.

To the extent permitted by the Law of the State or Territory in which the premises are located:

(a) the liability of Bayer under this Warranty is limited to a maximum of $100,000.00 in respect of any one (1) warranty claim.

(b) All representations and other warranties express or implied and whether arising by virtue of Statute or otherwise are excluded or limited as stated in this Warranty.

This Warranty shall only have effect if the Kordon is installed by a Bayer Accredited Installer.

OWNER’S RESPONSIBILITIES

The Owner of the Building during the Warranty Period ("Owner"), at the Owner’s expense, arrange for thorough and regular inspection of the Building for the presence of termites at intervals not exceeding 12 months by an accredited/licenced Timber Pest Inspector.

Where the Termite risk is high (e.g. North of the 26th parallel) more frequent inspections (3-6 months) should be undertaken.

These inspection recommendations comply with those outlined in AS 3660 Termite Management Series and AS 4349.1-1995, Inspection of buildings. If Termites are detected or are found to have breached the Kordon barrier, the Owner must, within 7 days of such detection, notify Bayer.

EXCLUSIONS

This Warranty shall be void and have no effect in any of the following circumstances:

(a) allows or fails to prevent accumulation of:
(i) wood, rubbish or timber against the Building; AND
(ii) finished ground level around the Building to a height which does not comply with the terms of the Installation Manual.

(b) allows the barrier dividing the soil surface and the structure of the Building formed by the Kordon to be bridged or broken by any other material or matter through which Termites may by-pass the Kordon and infest the Building.

Termites shall enter the Building through any manner other than by a breach of the Kordon barrier.

If the Kordon is installed other than by an Bayer Accredited Installer.

Bayer Environmental Science, 391-393 Tooronga Rd, Hawthorn East, VIC, 3123