



REFERENCE MANUAL



www.kordontmb.com.au



BACKED by **BAYER**™

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.







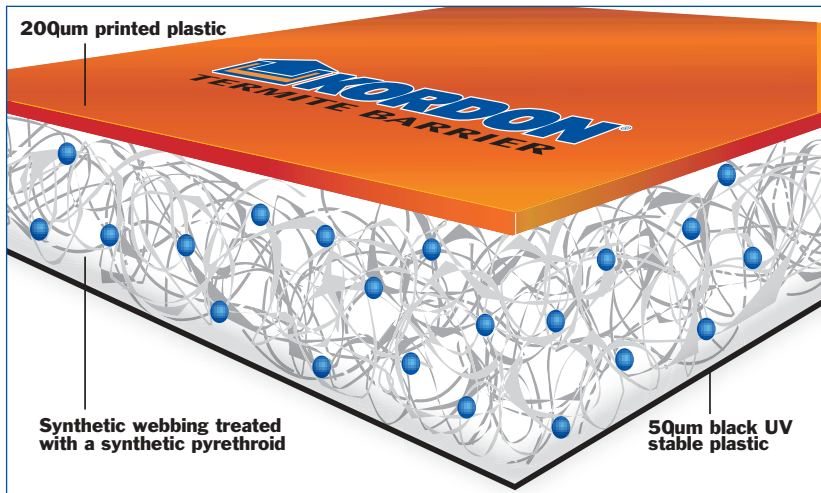
How Kordon works

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.







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.





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.

Evidence of Suitability comprises reports from a Registered Testing

Authority, i.e. CSIRO, and other documentary evidence. The relevant BCA Deemed-to-Satisfy Provisions are acceptable Construction Manuals AS 3660.1-2000 *Termite Management Part 1 – New building work*. AS 3660.3-2000 *Termite Management Part 3 – Assessment criteria for Termite Management Systems* and AS 2870 *Residential slabs and footings code*.

| Reference | Requirement | Evidence of suitability |
|--|---|--|
| AS 3660.1: C1 2.3.4 | Termite resistant barrier. | ABSAC Technical Opinion 216: Kordon TMB satisfies the requirements of the BCA for protection from termites. |
| AS 3660.1: C1 2.3.4 | Termite barrier consists of a product registered by the NRA for that purpose. | NRA Approval 48772/01: Kordon MC for application in production of Kordon TMB to protect buildings under construction from subterranean termite attack. |
| AS 3660.1: C1 2.2.1 | Barrier system deters concealed entry. | ABSAC Technical Opinion 216 and CSIRO Appraisal 255: Installation instructions as provided by the manufacturer. |
| AS 2870: C1 5.3.3 | Provision of a vapour barrier or a damp-proofing membrane. | ABSAC Technical Opinion 216: Kordon TMB satisfies the requirements of the BCA for damp proofing of floors on ground. |
| BCA vol 2, Qld variation P2. 1.1 | Termite barrier to be durable. | 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” |





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)*

| | | |
|--------------------------------|---|--------------|
| Lismore | Amalgamated Pest Control Max Barton | 02 6624 8800 |
| Lismore | S & M Pest Control Stewart Pearson | 02 6682 2487 |
| Nambucca Heads | Amalgamated Pest Control Lee Fleming | 02 6568 9566 |
| Newcastle/Central Coast | Advanced Pest Control Peter Copas | 02 4962 5875 |
| Parramatta | Heritage Pest Control Pty Ltd Dale Rigger | 1300 669 990 |
| Port MacQuarie | Amalgamated Pest Control Tony Wilcox | 02 6581 3813 |
| Port Stevens/Newcastle | Advanced Pest Control Reg Chilby | 02 4982 2866 |
| Snowy Mountains | High Country Pest Control Larry Waddell | 02 6457 8217 |
| South Coast NSW | Proterm Termite Protection Bret McManus | 02 4448 5444 |
| South Coast NSW | Smiths Pest Control Laurie Smith | 02 6494 1118 |
| Sydney/NSW | Orange Protector Pty Ltd Barry Slattery | 1300 888 638 |
| Sydney/NSW | Safeguard Termite Barriers Michael Shaw | 1300 855 822 |
| Sydney | Alliance First John Parkins | 1800 886 186 |
| Sydney | Amalgamated Pest Control Greg Moon | 02 8787 1111 |
| Sydney | Copes Pest Control Pty Ltd Mark Hopping | 02 9521 3377 |
| Sydney | Fumapest Australia Pty Ltd Michael Dubois | 02 9771 2400 |
| Sydney | Precision Pest Control Pty Ltd Peter Sakley | 02 9315 5798 |



NEW SOUTH WALES *(continued)*

| | | |
|--------------------|---|--------------|
| Sydney | Sentinel Pest Management Philip Tankard | 02 9314 0259 |
| Sydney | Sherlock Pest Control Ray Woods | 02 9602 6888 |
| Sydney | Spectrum Pest Management Kieron Ronan | 1300 134 286 |
| Wagga Wagga | Rind Pty Ltd Peter Pratt | 02 6925 0198 |
| Wollongong | Advanced Pest Control Bill Richards | 02 4262 8442 |

NORTHERN TERRITORY

| | | |
|---------------------------|--|--------------|
| Northern Territory | Quality Pest Control Barry Johnson | 08 8945 1194 |
| Northern Territory | Rapid Pest Control Darren Vickers | 08 8932 7977 |

QUEENSLAND

| | | |
|--------------------------|--|--------------|
| Agnes Water | Amalgamated Pest Control Grahame Elkes | 07 4974 9251 |
| Airlie Beach | Amalgamated Pest Control Michael Pipe | 07 4945 3422 |
| Airlie Beach | Elite Maintenance Service Rex Snowsill | 07 4946 6881 |
| Ayr | Amalgamated Pest Control Ross Scanlon | 07 4783 4066 |
| Biloela | Amalgamated Pest Control Steve Eather | 07 4992 1007 |
| Biloela/Gladstone | Direct Pest Control Bruce Dekker | 07 4992 5799 |
| Bowen | Amalgamated Pest Control John McElhinney | 07 4786 3150 |
| Bowen | Pest Evict Brett Skinner | 07 4786 1357 |

QUEENSLAND *(continued)*

| | | |
|-----------------|--|--------------|
| Brisbane | Adina Professional Pest Management Michael Halford | 07 3351 3301 |
| Brisbane | Affordable Pest Control Michael Flower | 07 3882 2775 |
| Brisbane | All Purpose Pest Control Warren O'Dare | 07 3804 1955 |
| Brisbane | Alliance Industries Terry Davies | 07 3822 2430 |
| Brisbane | Amalgamated Pest Control Peter Brigden | 07 3373 7700 |
| Brisbane | Amalgamated Pest Control Michael Farr | 07 3277 4444 |
| Brisbane | Amalgamated Pre-Construction Warwick London | 07 3373 7788 |
| Brisbane | Brisbane Pre-Slab Steven Slater | 07 3357 7635 |
| Brisbane | D.K. Termite Barriers David Wall | 07 3297 6774 |
| Brisbane | East Coast Environmental Pest Control Mick Bennett | 07 3342 5338 |
| Brisbane | Eddy's Pest & Weed Control Edward Lewis | 07 3803 4066 |
| Brisbane | Environmental Pest Control Luke Tomkins | 07 3422 2860 |
| Brisbane | Exzit Pest Control Pty Ltd Robert Smith | 07 5497 6766 |
| Brisbane | Hembrow's Pest Control Bob Hembrow | 07 3203 1928 |
| Brisbane | Matrix Pre-Slab Pty Ltd Duane Schmid | 07 3350 4909 |
| Brisbane | Redlands Pest Control Sally Hogan | 07 3390 1181 |



QUEENSLAND *(continued)*

| | | |
|--------------------------------|--|--------------|
| Brisbane | Stevie Redback Pest Control Stephen Hughes | 1300 665 665 |
| Brisbane | The Termite Man Pty Ltd Iain Stephen | 07 3201 2900 |
| Brisbane | The White Ant Man Grant Currie | 1300 130 338 |
| Brisbane/Gold Coast | Sherry's Termite Protection Len File | 1800 249 121 |
| Brisbane/Sunshine Coast | Suburban Pest Management Richard Aldridge | 1300 656 572 |
| Brisbane/Sunshine Coast | Termi-Rid Bill Hendy | 0417 075 080 |
| Brisbane/Russell Island | Auz Pty Ltd Frank Devitt | 07 3349 0577 |
| Bundaberg | Amalgamated Pest Control Peter Atkinson | 07 4151 5780 |
| Bundaberg | Suresafe Pest Management Neil Lomas | 07 4151 4995 |
| Bundaberg | Wide Bay – Burnett Pest Management Stephen Barrett | 07 4151 0101 |
| Caboolture | Amalgamated Pest Control Paul McDonnell | 07 4121 6040 |
| Cairns | Amalgamated Pest Control Robert Boneham | 07 4033 2875 |
| Cairns | Environ Enterprises F.N.Q. Rodney Evans | 1800 225 758 |
| Cairns | Natraspray Rodney Evans | 07 4054 2100 |
| Charters Towers | Amalgamated Pest Control Russell Percy | 07 4787 4275 |
| Emerald | Amalgamated Pest Control David Neal | 07 4982 1271 |
| Gladstone | Amalgamated Pest Control Gavin Wharton | 07 4972 4300 |

QUEENSLAND *(continued)*

| | | |
|-----------------------------------|--|--------------|
| Gladstone | Amalgamated Pest Control Roy Marek | 07 4972 8944 |
| Gladstone | Natraspray Michael McAullay | 07 4978 2110 |
| Gold Coast & North NSW | Capital Pest Management Darrell Burgess | 07 5598 6681 |
| Gold Coast | Amalgamated Pest Control John Fleming | 07 5576 1300 |
| Gold Coast | Bridon Spraying Brian Harder | 07 5545 2175 |
| Gold Coast | ESP Pest Control John Millane | 07 5579 9989 |
| Gold Coast | Kenny's Pest Control Kenny Edwards | 07 5530 8465 |
| Gold Coast | Pestkil Pty Ltd John Lappin | 0408 661 177 |
| Gold Coast | Termipest Termite Management Luke Taylor | 07 5575 6666 |
| Goondiwindi | Downs Pest Control Kevin Devine | 07 4671 1178 |
| Gympie | Gold City Professional Services Geoff Jensen | 07 5482 8244 |
| Hervey Bay | Amalgamated Pest Control David Knowles | 07 4124 4299 |
| Ingham | Amalgamated Pest Control Ed Slater | 07 4777 8077 |
| Innisfail | Amalgamated Pest Control David Stoter | 07 4061 2947 |
| Ipswich | Amalgamated Pest Control Troy Mayes | 07 3281 4533 |
| Ipswich | Kammand Pest Control Michael Mardel | 07 3818 0889 |
| Ipswich/Brisbane | Savco Pest & Weed Control Simon Savige | 07 3288 8899 |



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 |

QUEENSLAND *(continued)*

| | | |
|--------------------------------|---|--------------|
| 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

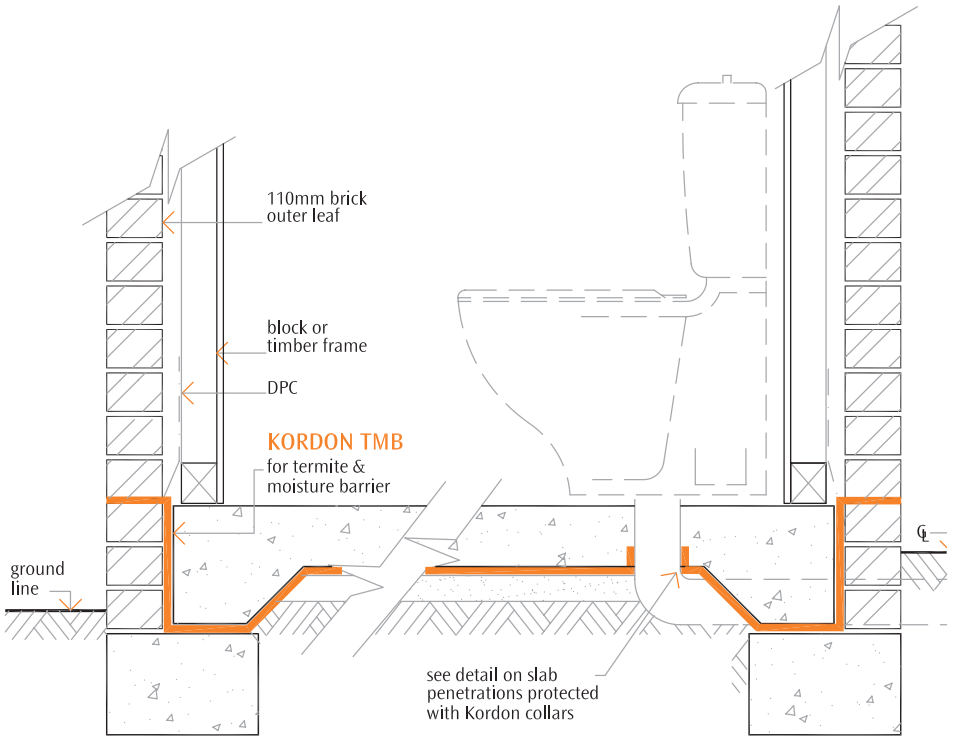
| | | |
|-----------------------|--|--------------|
| Adelaide | Allstate Pest Control Peter Tsoutouras | 08 8371 1277 |
| Adelaide | Complete Pest Control Ross Robertson | 08 8359 1511 |
| Adelaide | Our Earth Pest Control Roger Richter | 08 8234 2788 |
| Adelaide | Physical Termite Barriers John Hoskin | 08 8235 2634 |
| Barossa Valley | Murray Pest Control – Barossa Kevin Rayner | 08 8562 2822 |
| Murray Bridge | Terminix Pest & Weed Control Ashley Carter | 08 8532 1493 |

VICTORIA

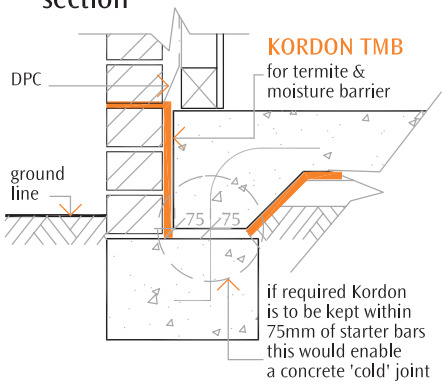
| | | |
|---|--|--------------|
| Albury/Wodonga, Wangaratta & Northern Victoria | Economic Pest Control Steve Ackerly | 1300 655 774 |
| Central & Northern VIC | Ridleys Pest Control David Hodgens | 03 5480 2155 |
| Central & Western VIC | Knights Pest Control Leigh Knight | 03 5449 6152 |
| Horsham | D & S M Meadows Daryl Meadows | 03 5382 4986 |
| Melbourne | King-Hit Pest Control Roger King | 03 9852 1234 |
| Melbourne, Geelong, Central VIC | Natural Pest Control David Odgers | 03 9390 6555 |
| Melbourne, Geelong, Mornington Peninsula, Regional | Trimec Pty Ltd Paul Harris | 1800 133 393 |
| Mildura | Mildura & District Pest Control Les O'Connor | 03 5024 6929 |
| Mornington Peninsula | Guardian Pest Control Graham Pittock | 03 5987 1787 |
| South East VIC | South Gippsland Pest Control Russell Graham | 03 5657 3300 |

WESTERN AUSTRALIA

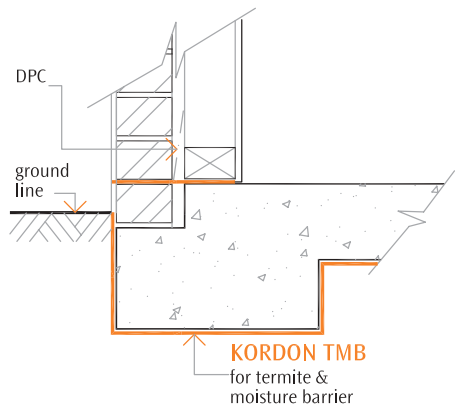
| | | |
|----------------------------|--|--------------|
| Bunbury | Pinchs Pest & Weed Control Trevor Ward | 08 9791 3525 |
| Bunbury | Western All Pest Services Kelvin Knapton | 08 9791 3322 |
| Derby | Sankey Constructions Pty Ltd Allen Sankey | 08 9191 2729 |
| Kalbarri | Kalbarri Total Pest & Weed Control Neville Simmonds | 08 9937 1352 |
| Kalgoolie | Mobile Pest & Weed Control Julian Little | 08 9093 2809 |
| Karratha | All – Rid Pest Management John Zanik | 08 9185 5553 |
| Mandurah | Mandurah Environmental Services & Pest Management Alan Price | 08 9581 5806 |
| Mid Coast WA | Carnarvon Pest Control Spencer Aylmore | 08 9941 2333 |
| Mid Coast WA | Pest-A-Kill Domenic Micono | 08 9965 3330 |
| Perth | Advanced Pest Control John Novatsis | 08 9328 2678 |
| Perth | Champion Pest Control John Papanaooum | 08 9444 0550 |
| Perth | Complete Pest Management Services Kimberley Lawrence | 08 9248 9929 |
| Perth | Envirotechnics Peter Adam | 08 9231 4744 |
| Perth | Termico Pest Management Services Richard Slee | 08 9443 9880 |
| South East Coast WA | Key Pest and Weed Control Richard Braybrooke | 08 9071 2528 |
| Southern WA | Murray River North Pty Ltd Ian Mclarty | 08 9531 2033 |



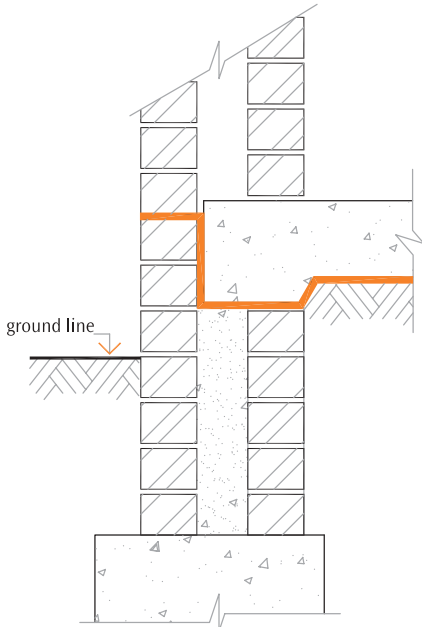
section



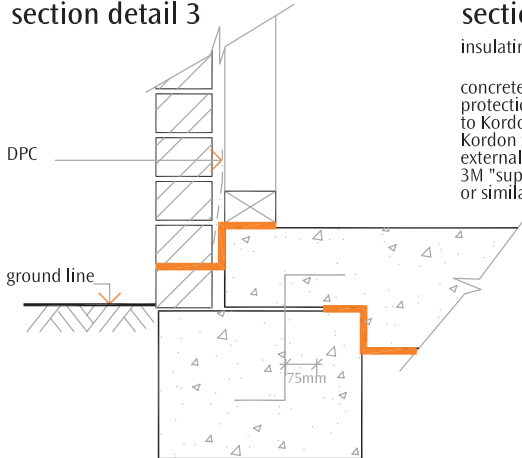
section detail 1



section detail 2

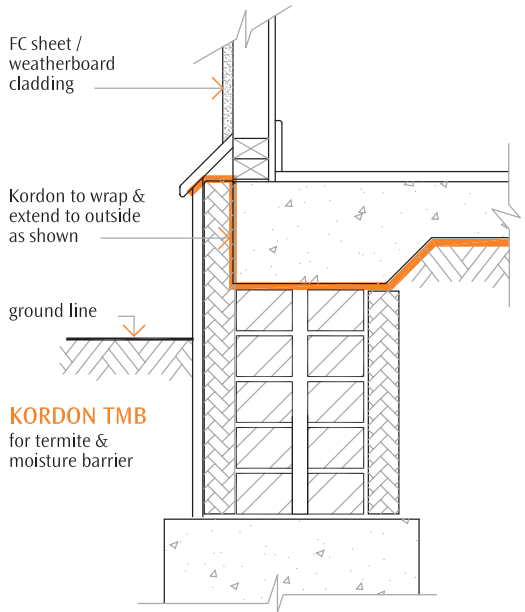


section detail 3



section detail 5

non-monolithic slab

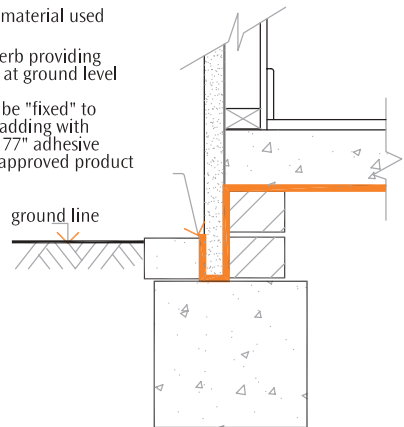


KORDON TMB
for termite &
moisture barrier

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 6

insulation type cladding



Photo 1



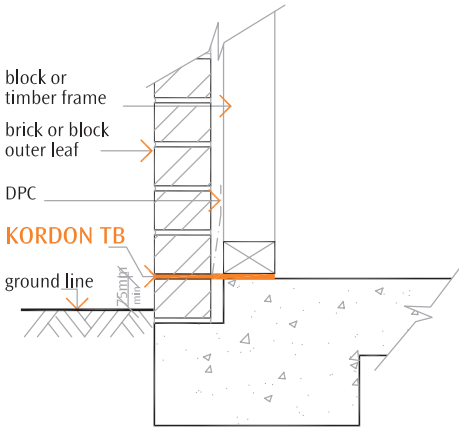
Photo 2
waffle pods



Photo 3
deep trenching

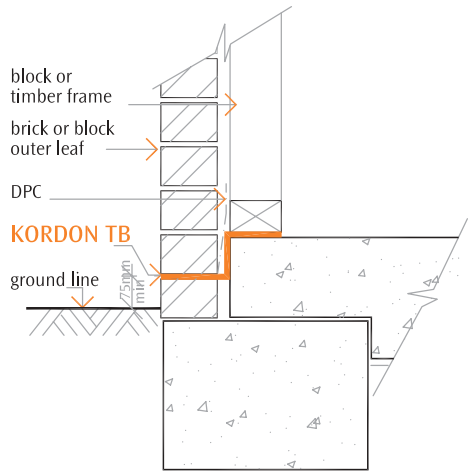


KORDON TB
PERIMETER



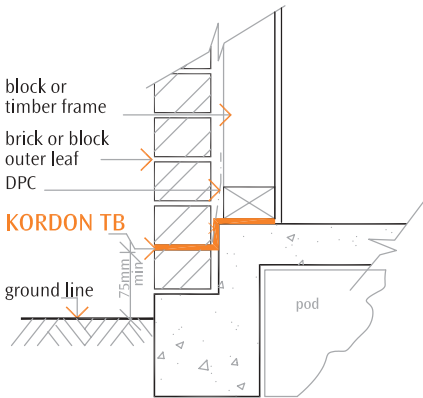
section detail 1

1 brick rebate



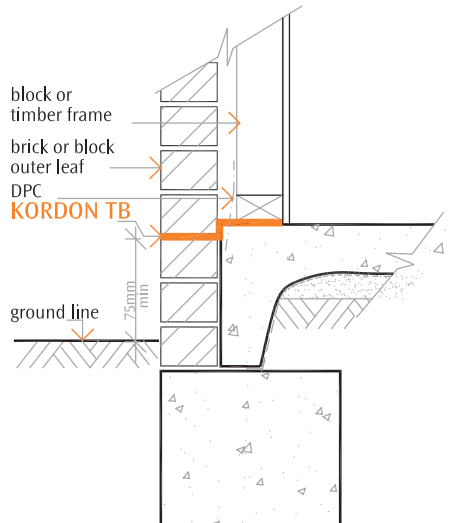
section detail 2

2 brick rebate



section detail 3

waffle pod

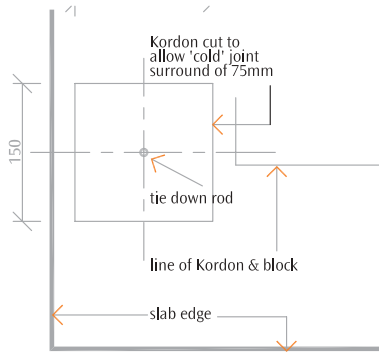


section detail 4

infill slab

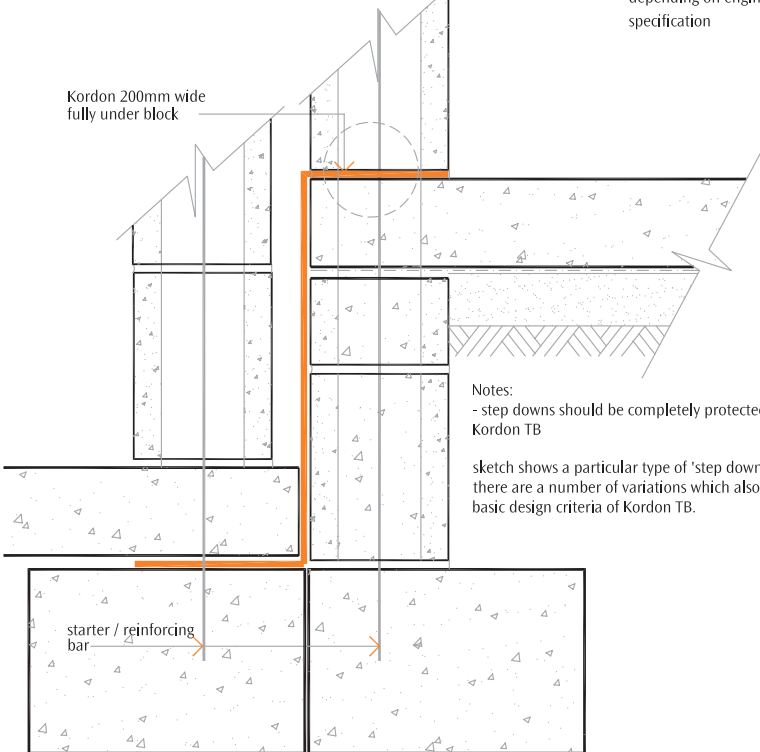


photo 1



Alternative plan detail depending on engineers specification

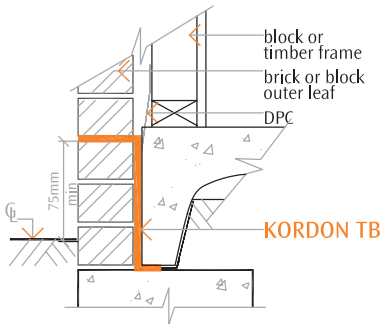
plan detail



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.

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.

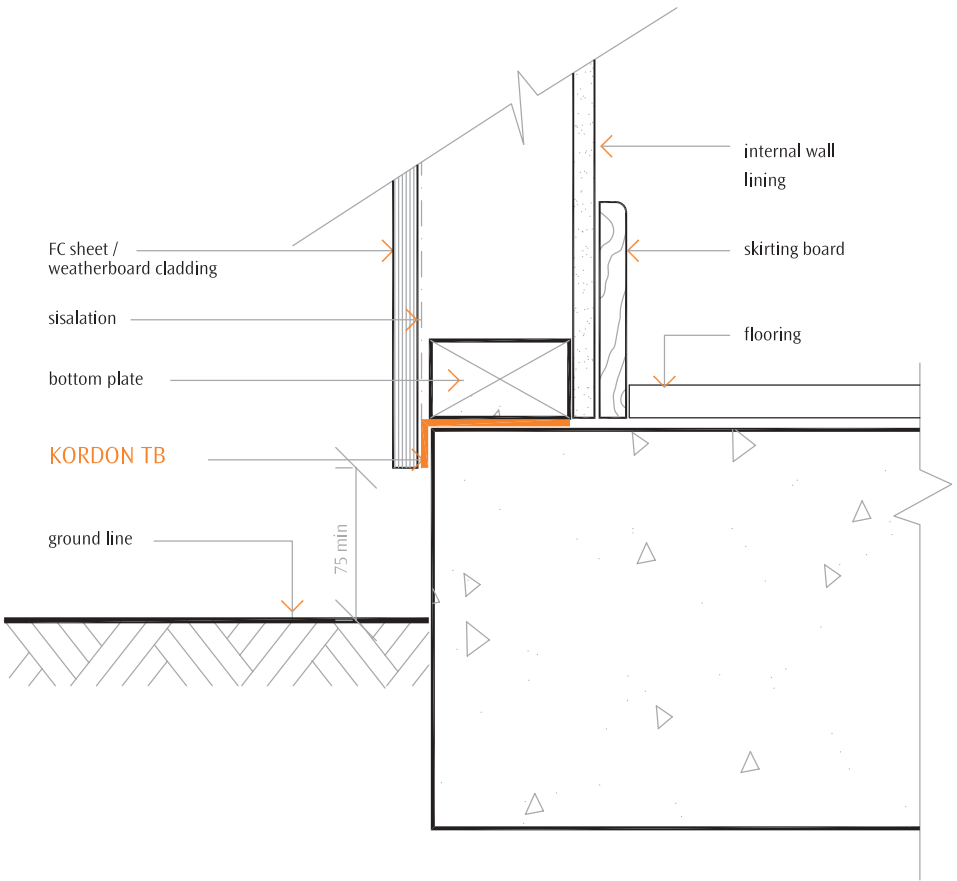


Install 400mm approx length of Kordon TB to internal corner as shown. Product to sit on footing a minimum of 75mm from starter bar. Secure to brickwork with clouts into mortar joints.

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.







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.

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



5.



6.

5 & 6, Kordon TB secured to outer brick edge with spray adhesive/doubs



7.



8.

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

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.

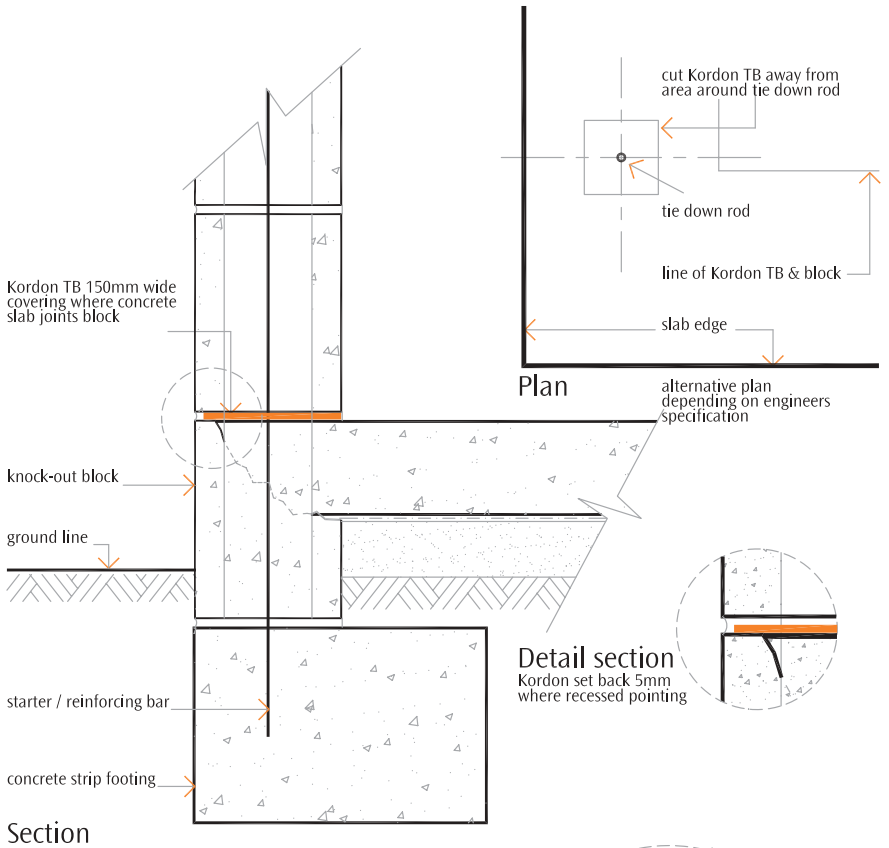
- Install approx 150mm width strip of Kordon TB to top of slab edge, cutting the product from the inside to allow for the tie down rod.
- Wrap a 20mm X100mm strip of Kordon TB to the base of each rod and secure with a zip tie.
- Install a patch of Kordon TB approx 100mm X 100mm. Using a 6mm wad punch 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.

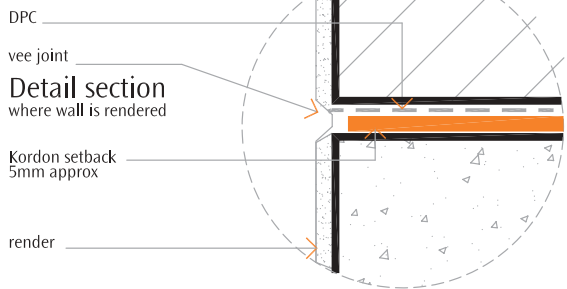
Where a rendered finish is specified the following is recommended:

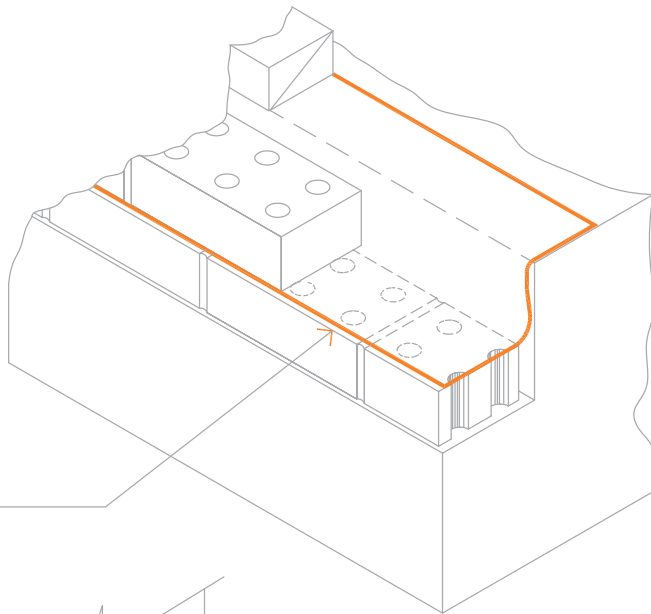
- A 'V' (vee) joint is applied at the Kordon TB /DPC level
- A mechanical joint is applied at the Kordon TB /DPC level.





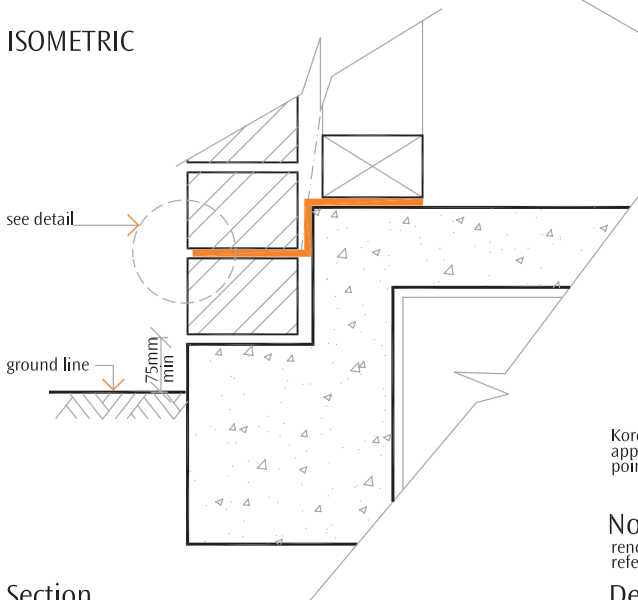
Note:
 where rendering occurs Kordon TB a 'vee joint' is recommended
 render may vary according to geographic locations
 eg rective soil sites





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

ISOMETRIC



Section



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

Note:
rendered wall refer to 008/d

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



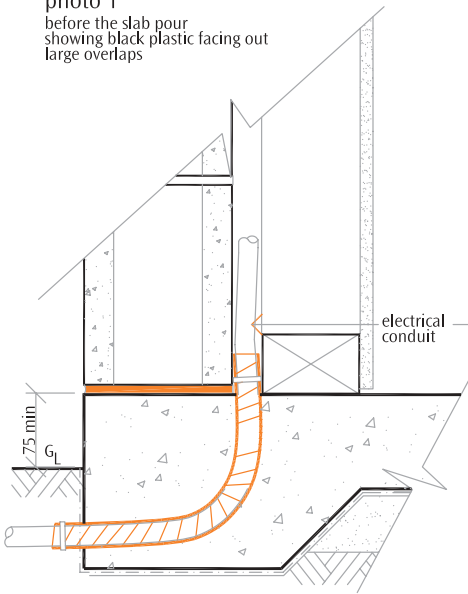
13. trim zip tie extensions
14. complete tape down
15. complete patch tape down
16. remove off cuts from site



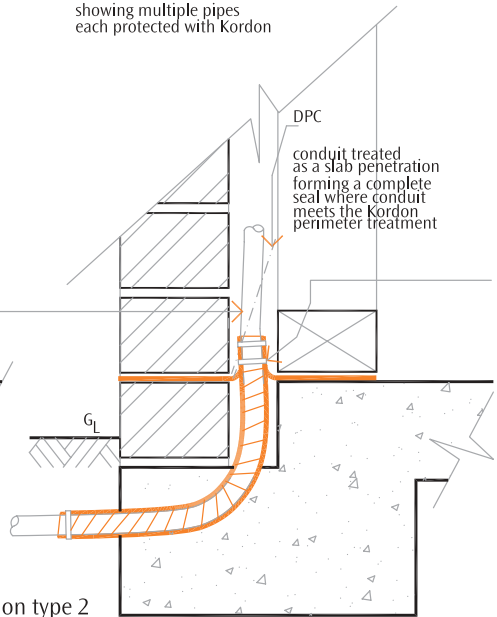
photo 1
before the slab pour
showing black plastic facing out
large overlaps



photo 2
showing multiple pipes
each protected with Kordon



section type 1



section type 2

Notes:

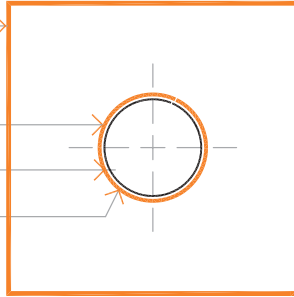
- wrap Kordon TB around (with overlap) electrical conduits penetrating the slab at length of 300mm approx.
- Kordon TB should be visible after the pour on any conduit /water pipe.
- a cable tie is to be secured at the start and at the finish of the wrap
- where possible place a 300x300 Kordon TB patch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

Kordon Kollar

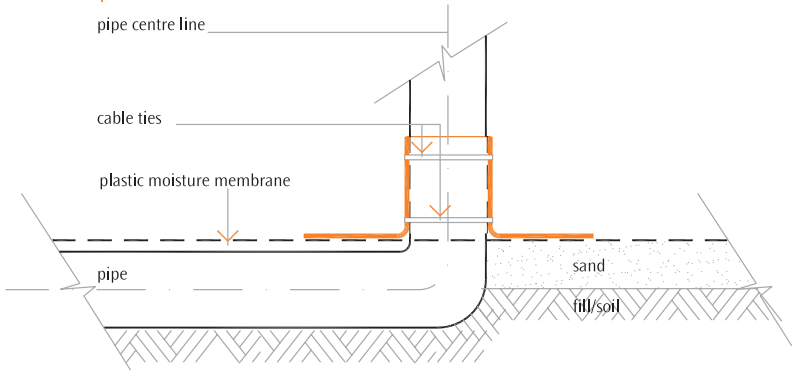
place Kordon Kollar over pipe until Kollar flange sits on the plastic membrane

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

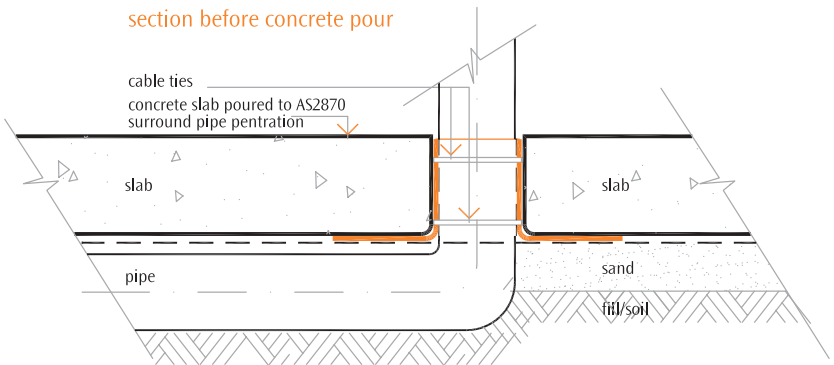
place second zip tie 50mm approx higher then first zip tie



plan



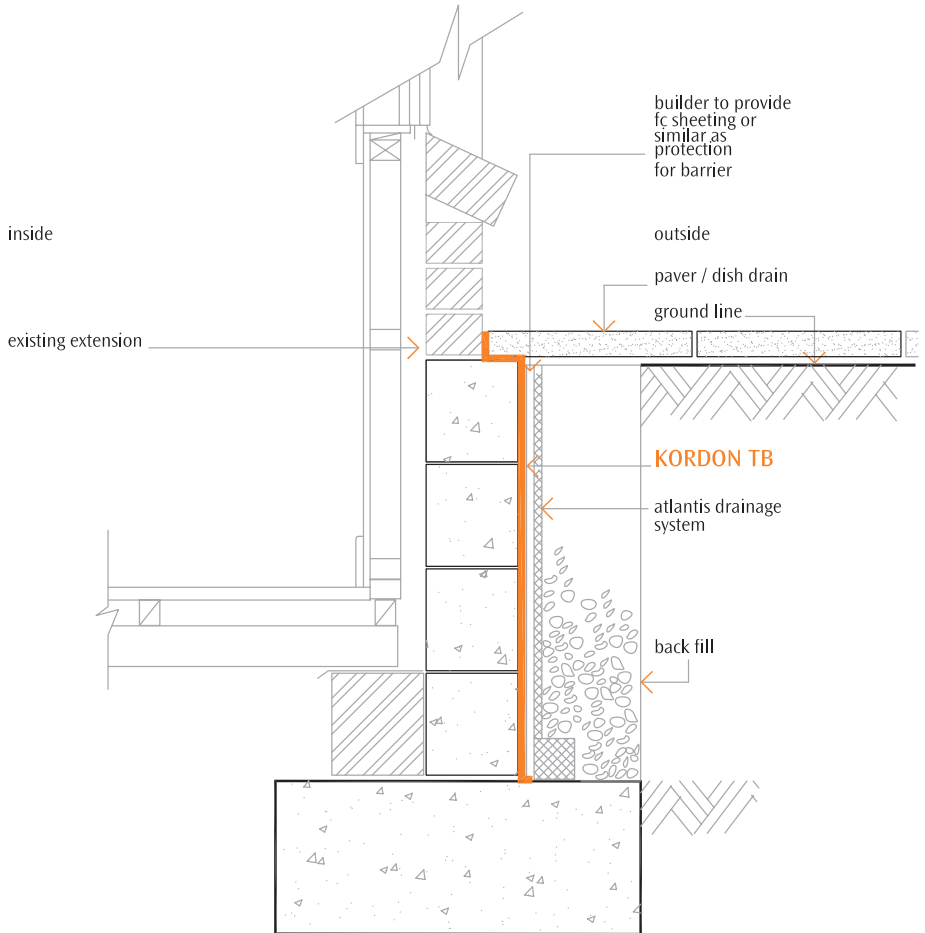
section before concrete pour



section after concrete pour

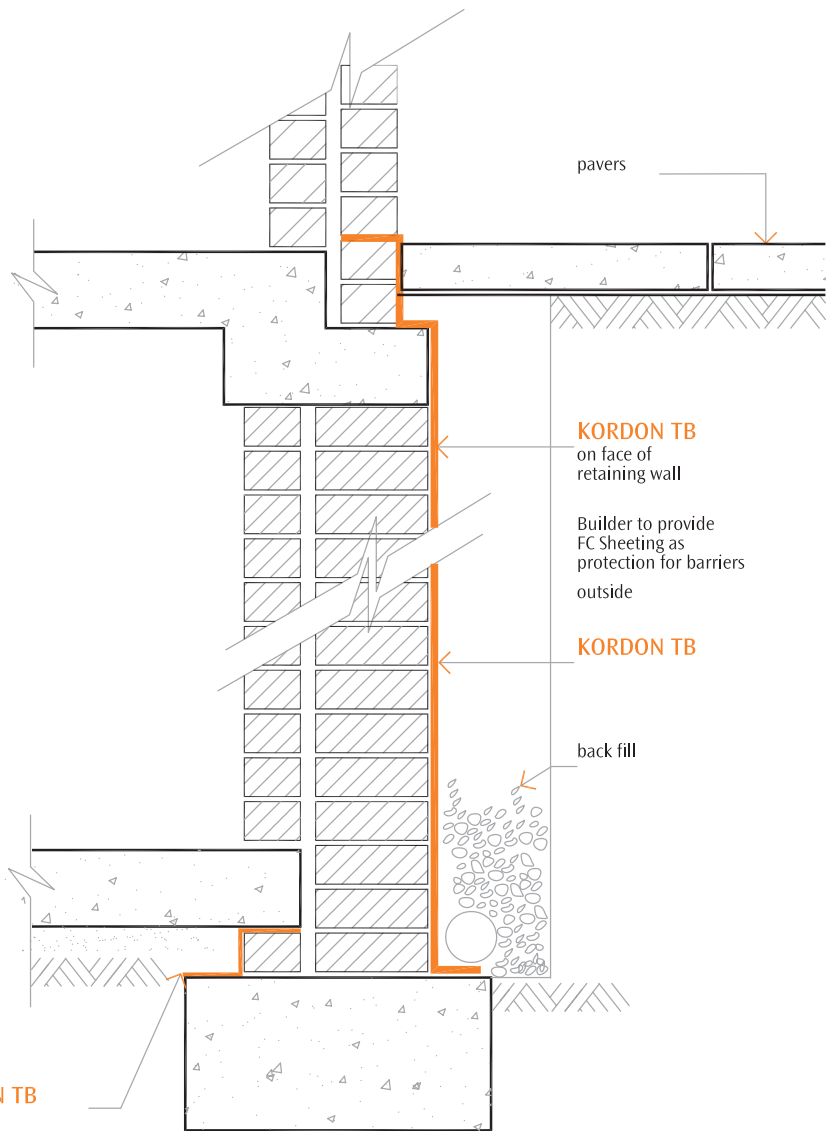
Kordon Kollar installation

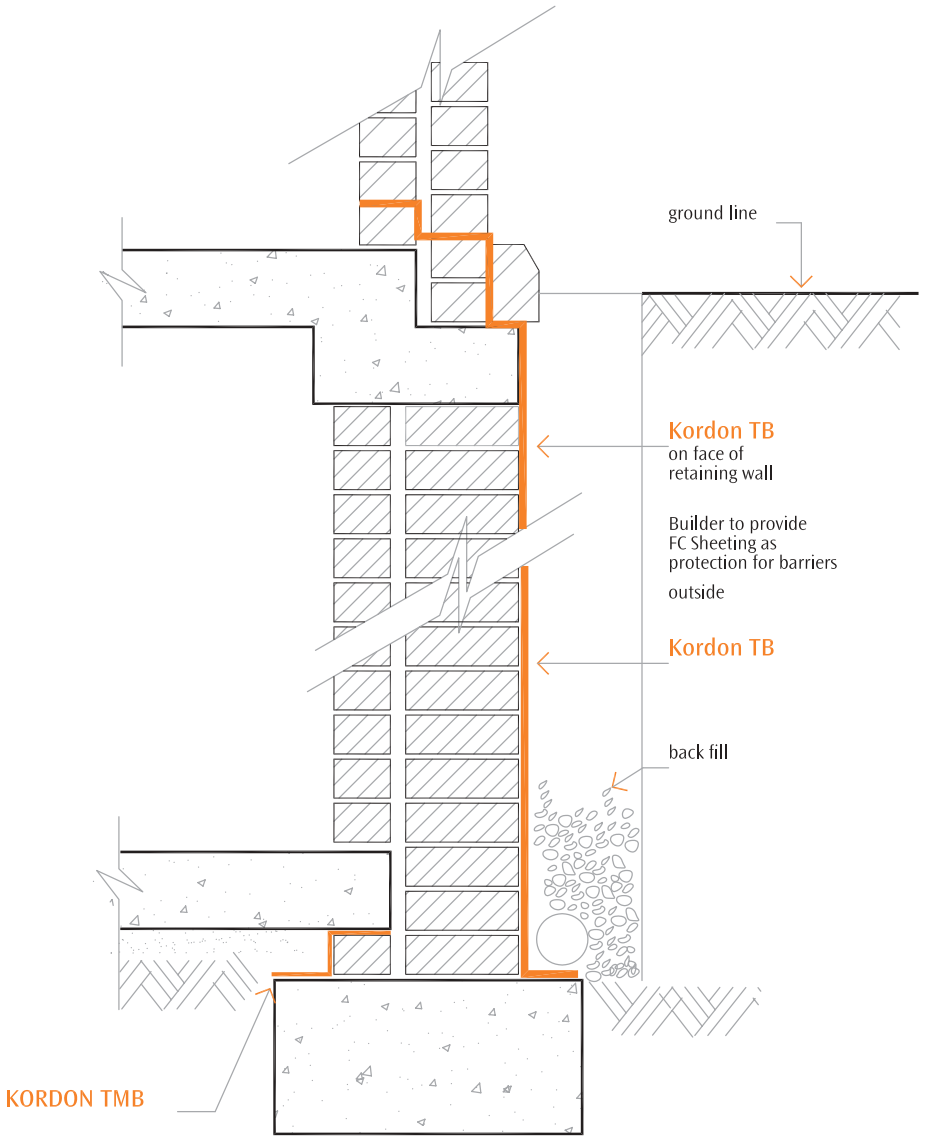
- Step 1: place Kordon Kollar over pipe slide down to the DPM plastic
- Step 2: secure first zip tie to base of kollar, secure second zip tie 50mm higher then first

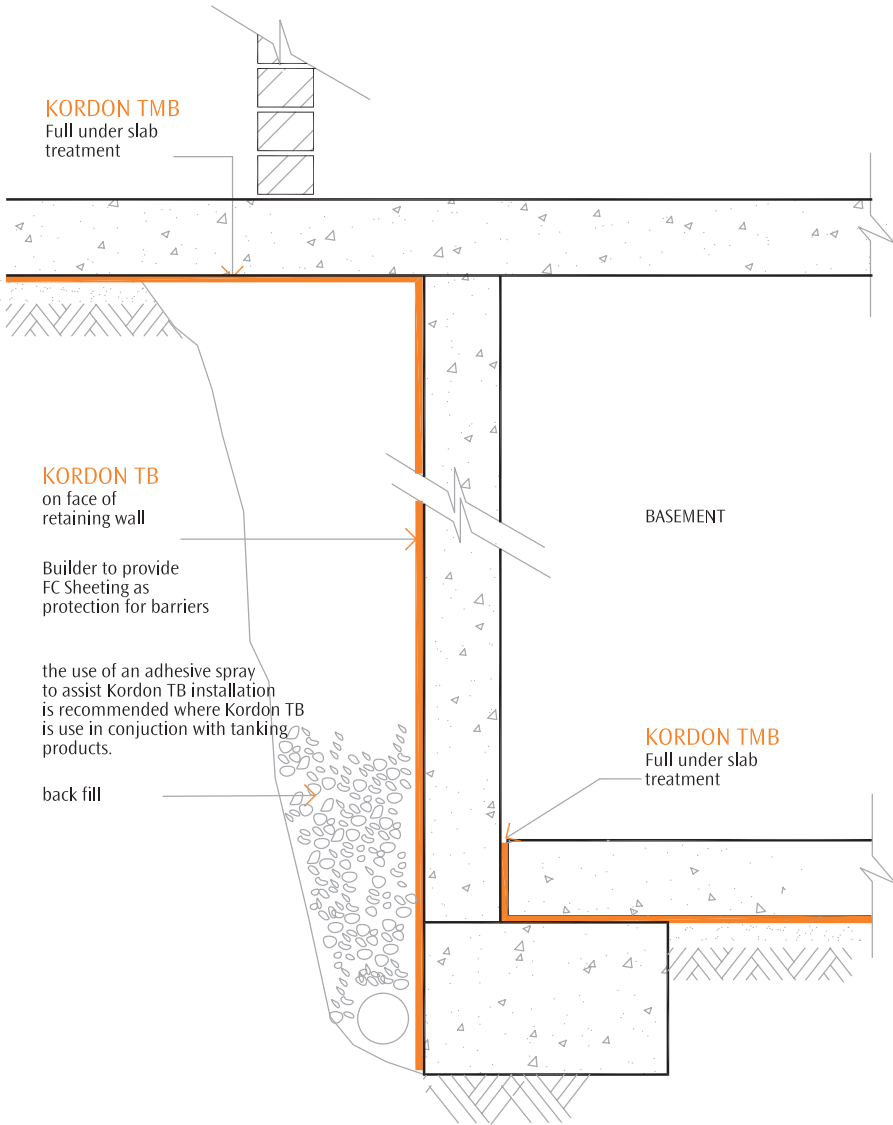


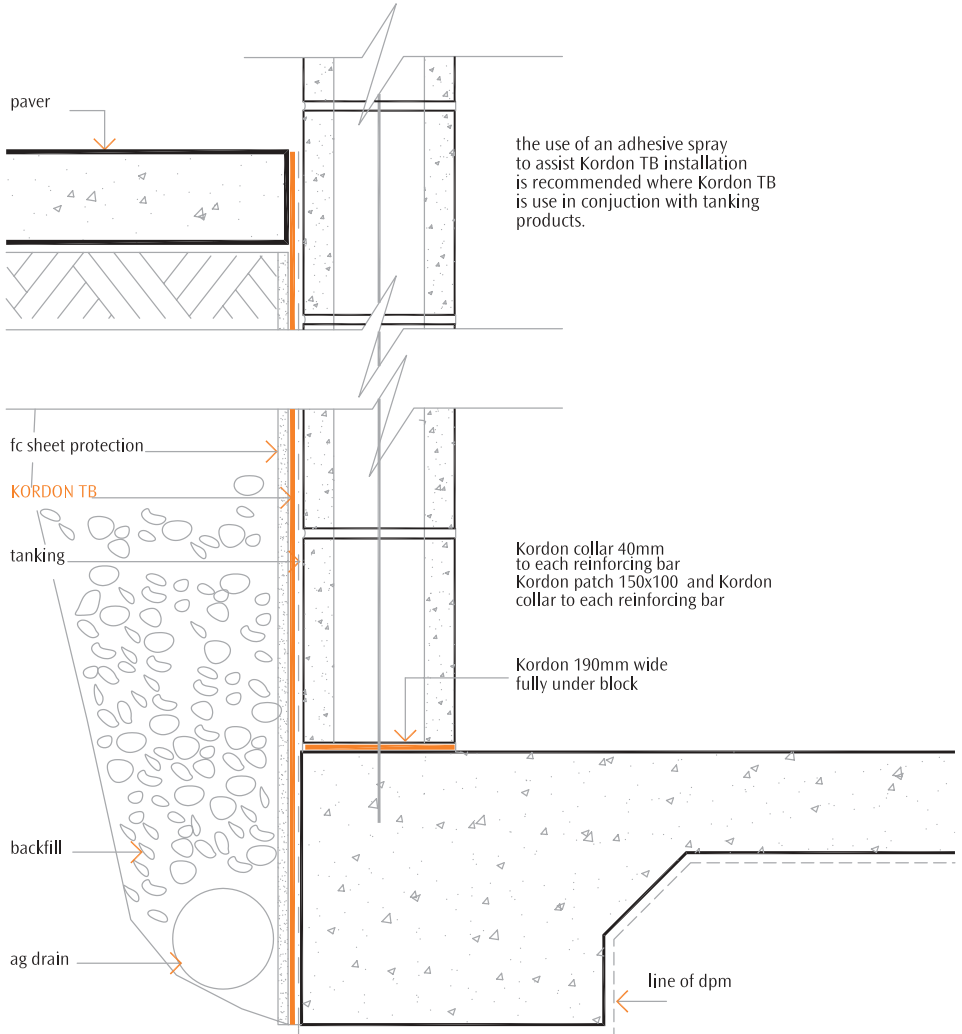
Note:
the sketch above shows a renovation
to an existing building

it is strongly recommended that the existing
building has a termite inspection before
any new works.









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

KORDON TB

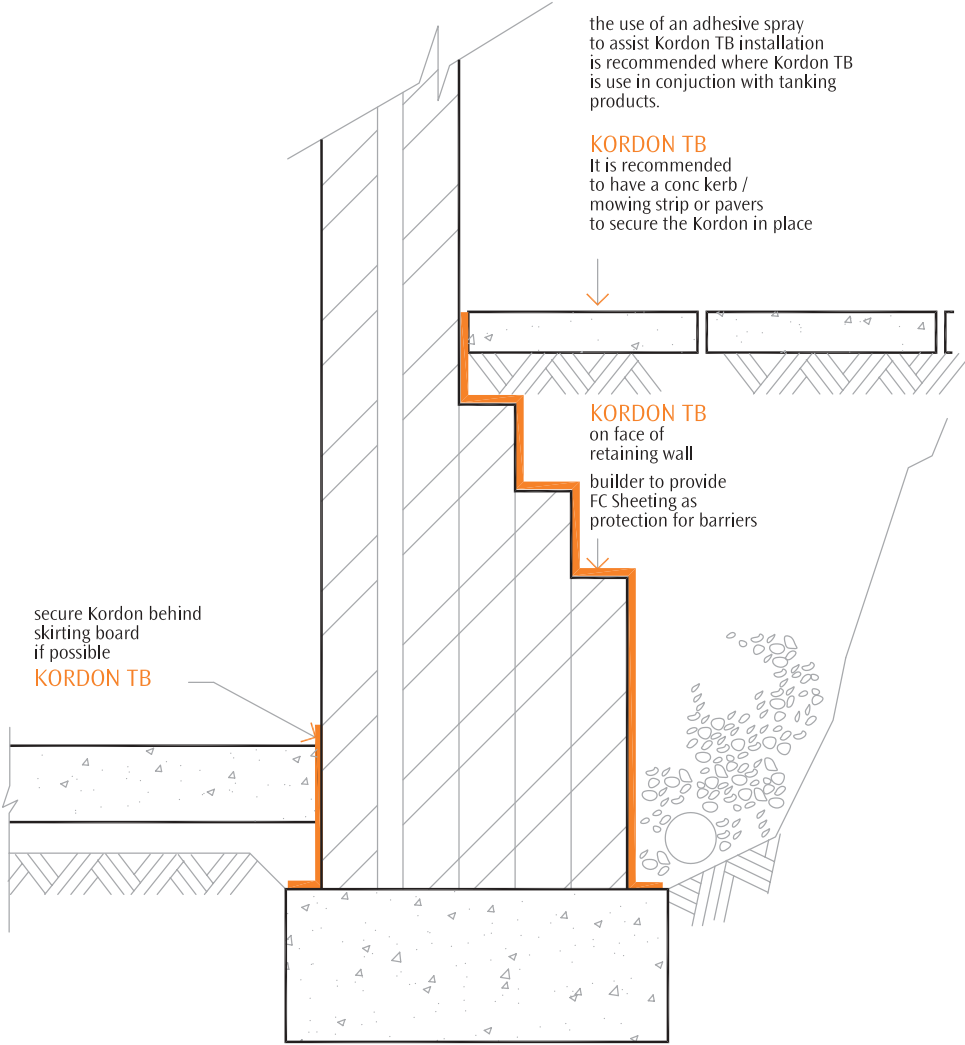
It is recommended to have a conc kerb / mowing strip or pavers in place to secure the Kordon in place

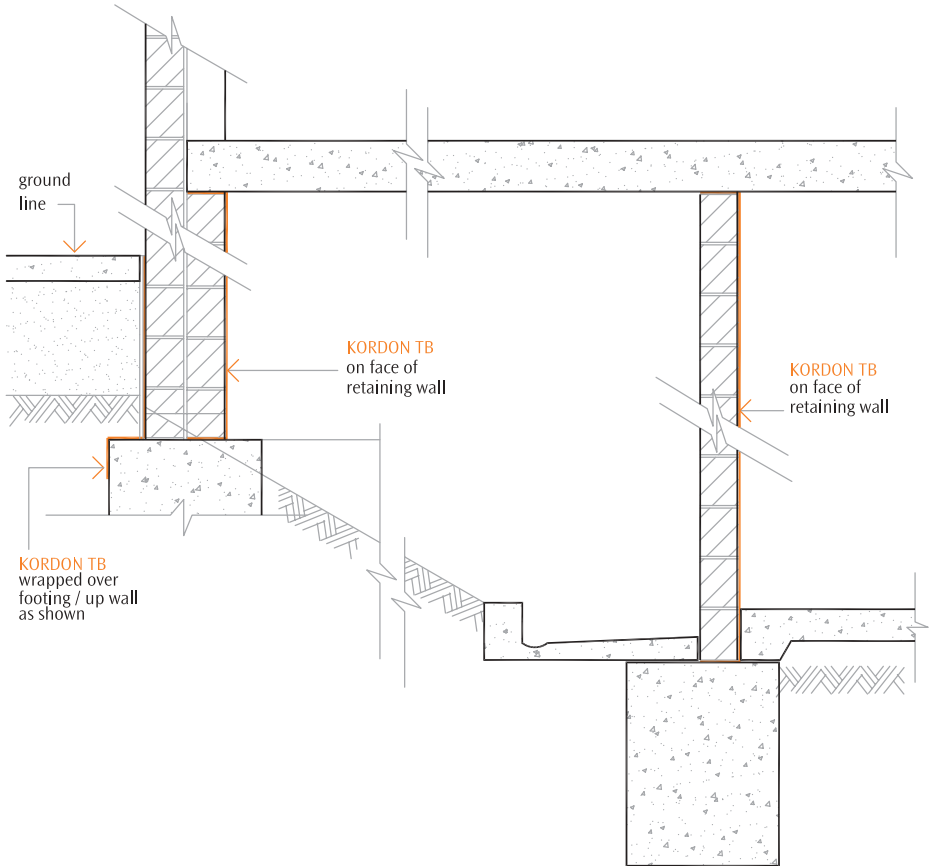
KORDON TB
on face of retaining wall

builder to provide FC Sheeting 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.



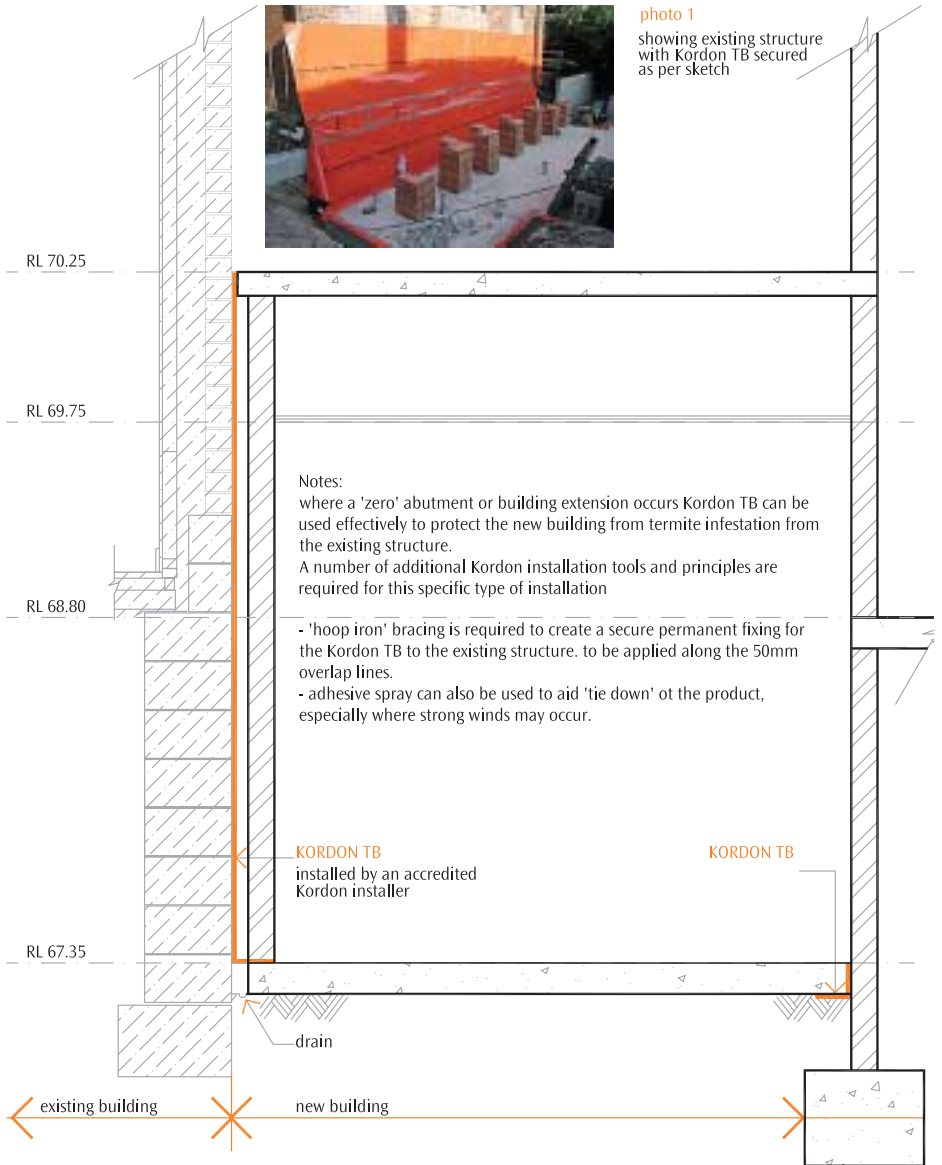
Photo 1
Kordon TB - full retaining wall

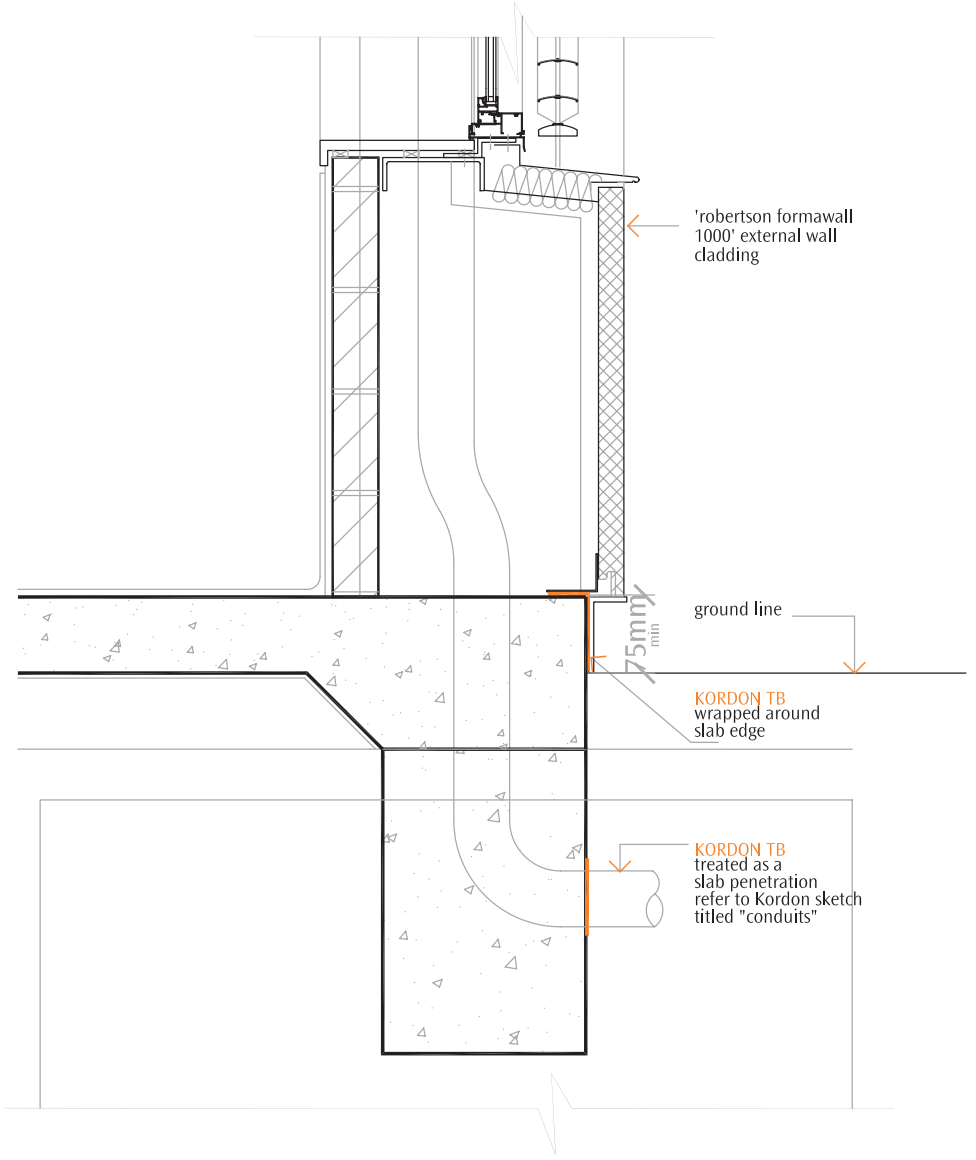


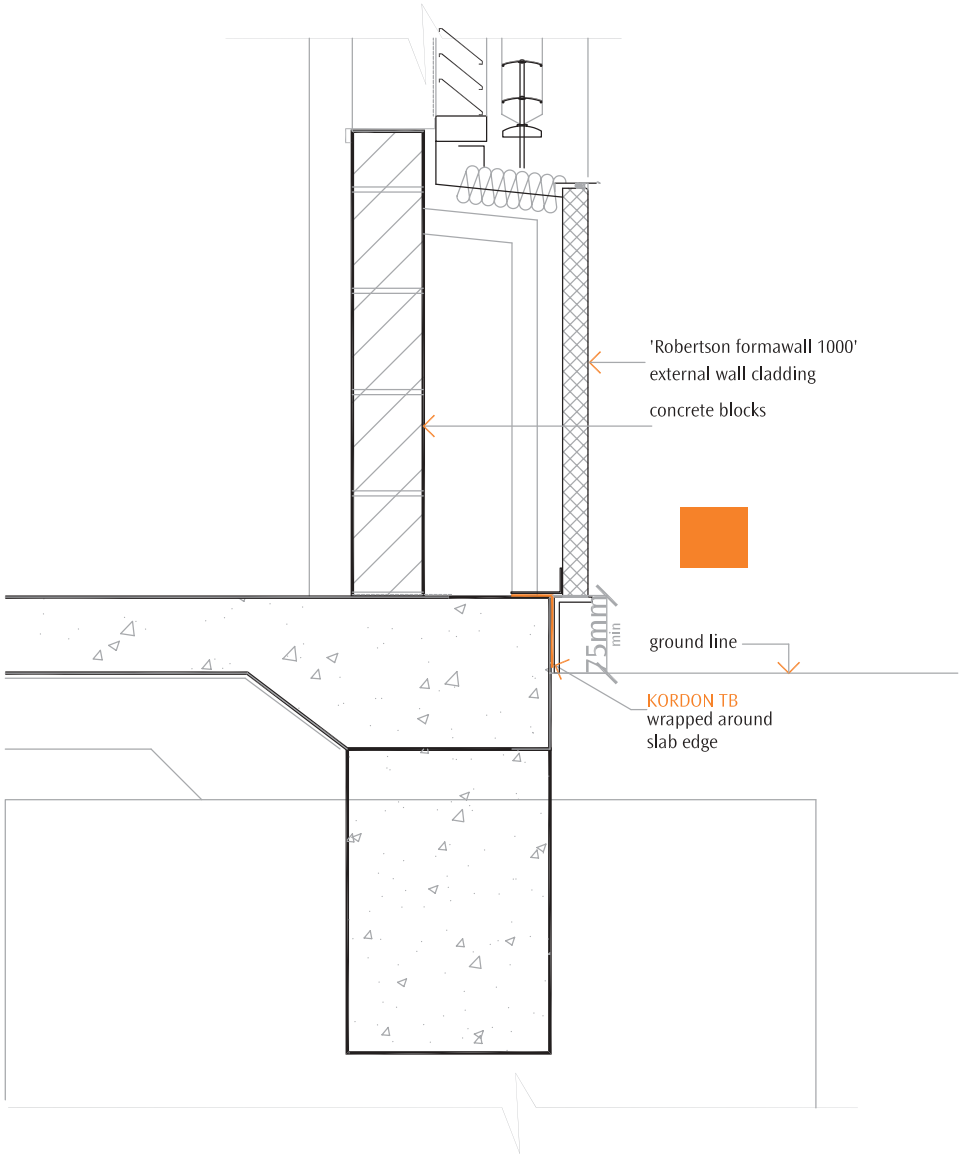
Photo 2
Kordon TB - retaining/stepdown

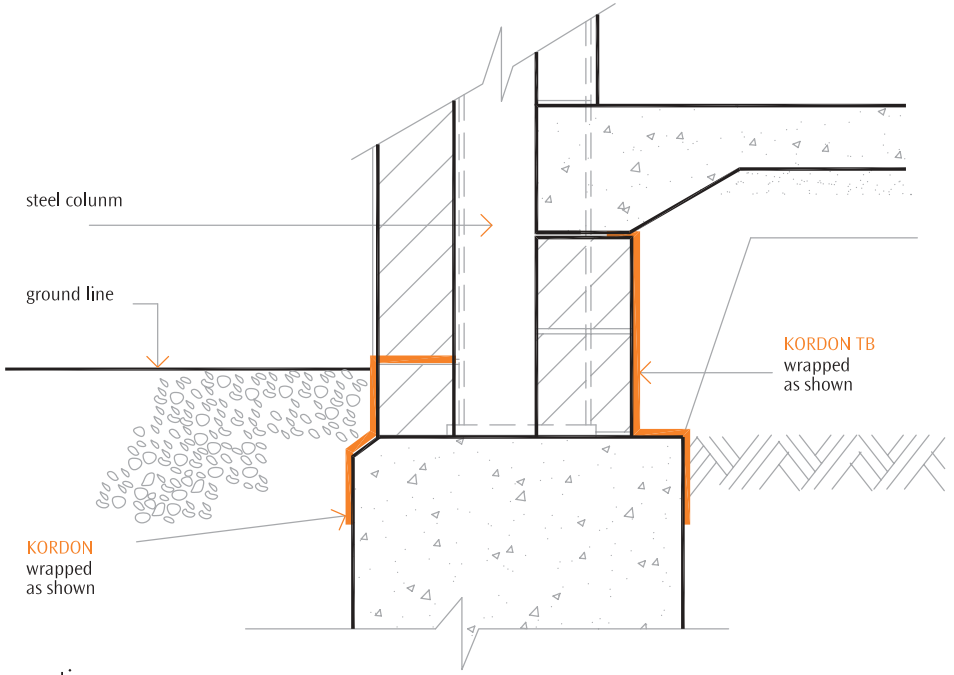


Photo 3
Kordon TB - internal wall treated

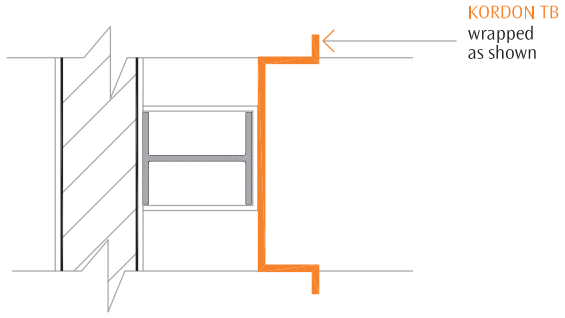




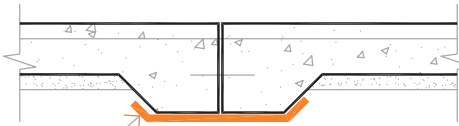




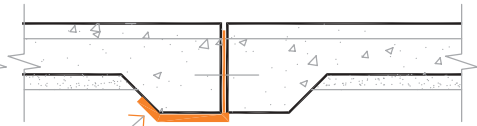
section



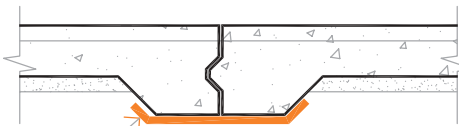
plan



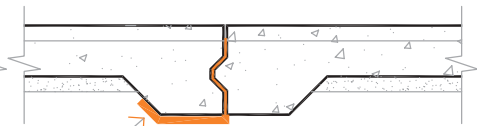
KORDON TB
dowel joint - option A



KORDON TB
dowel joint - option B



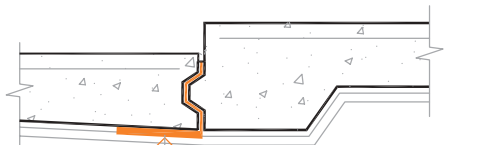
KORDON TB
key joint - option A



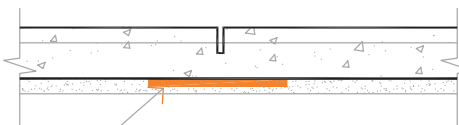
KORDON TB
key joint - option B



KORDON TB
taped on top
of DPM - option A



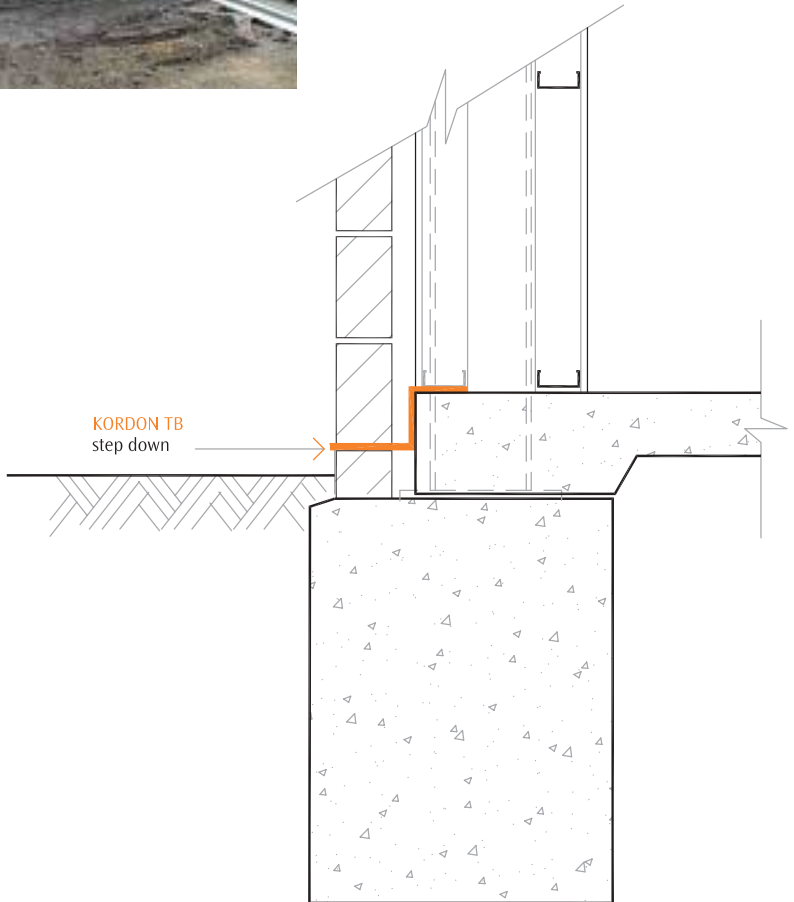
KORDON TB
taped on top
of DPM - option B



KORDON TB
saw joint

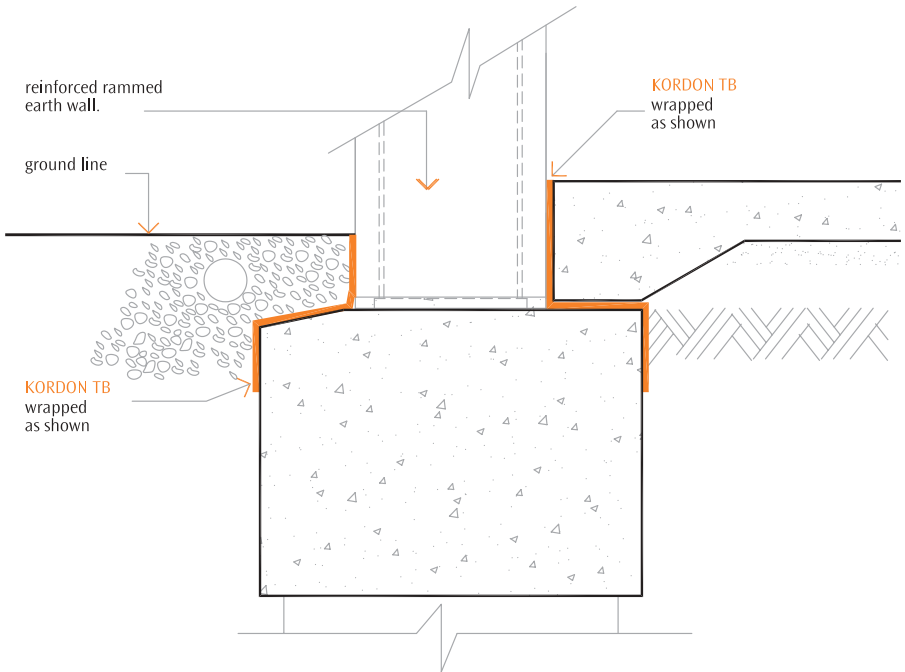


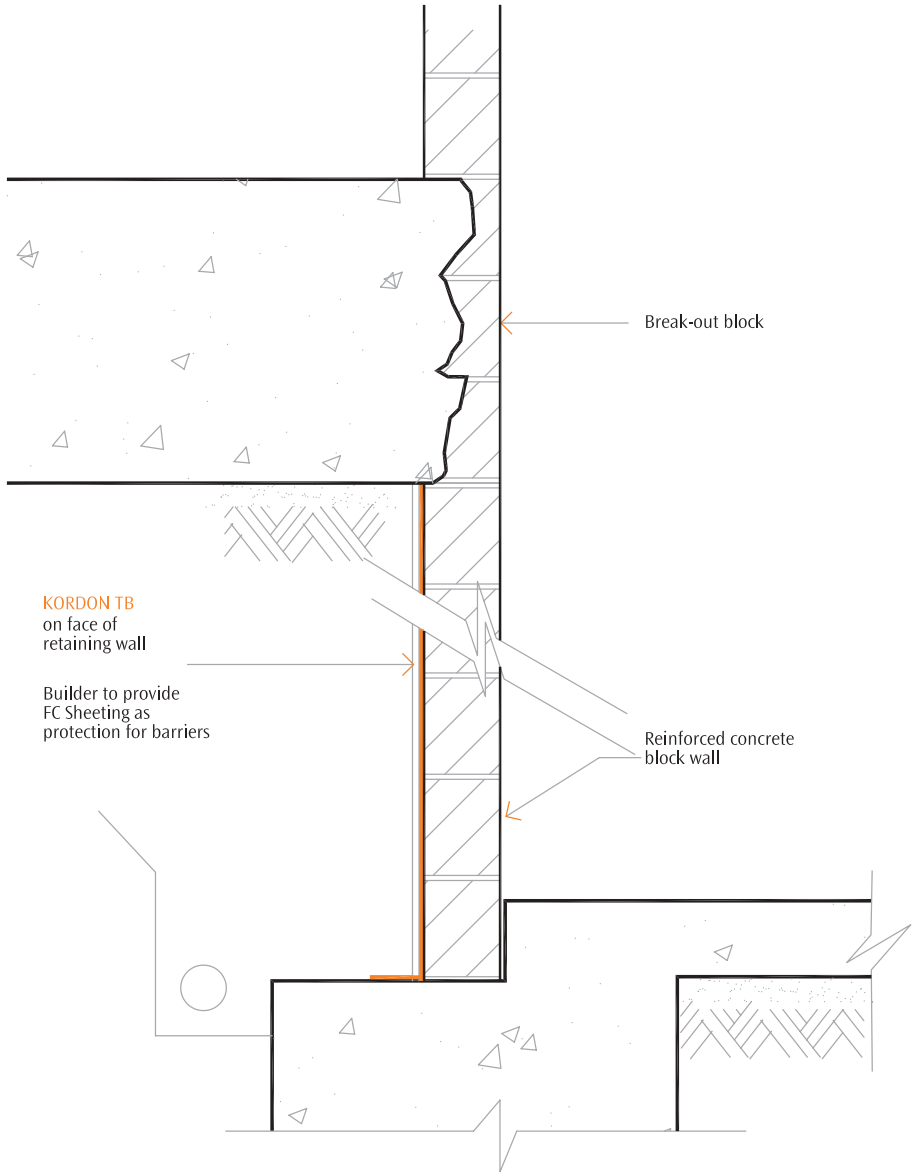
Photo 1
Kordon TB -commercial building



concrete column
infill surround
concrete

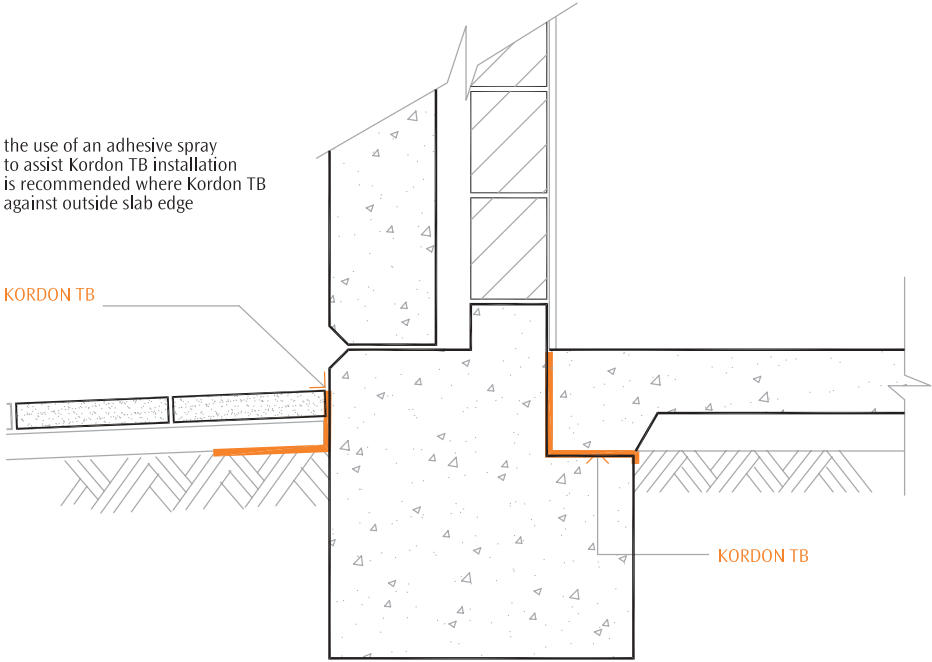
KORDON TB





the use of an adhesive spray to assist Kordon TB installation is recommended where Kordon TB is against outside slab edge

KORDON TB



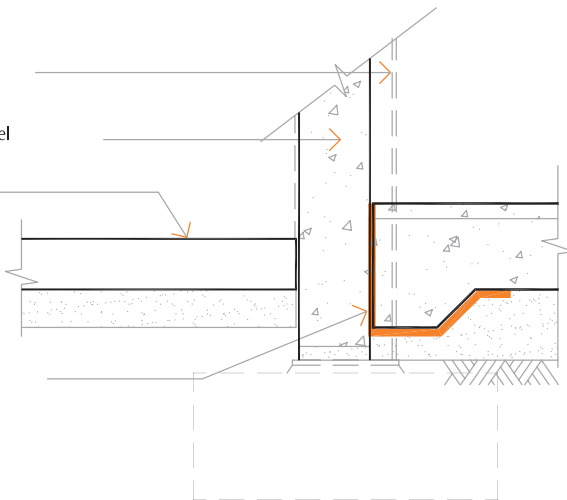
KORDON TB

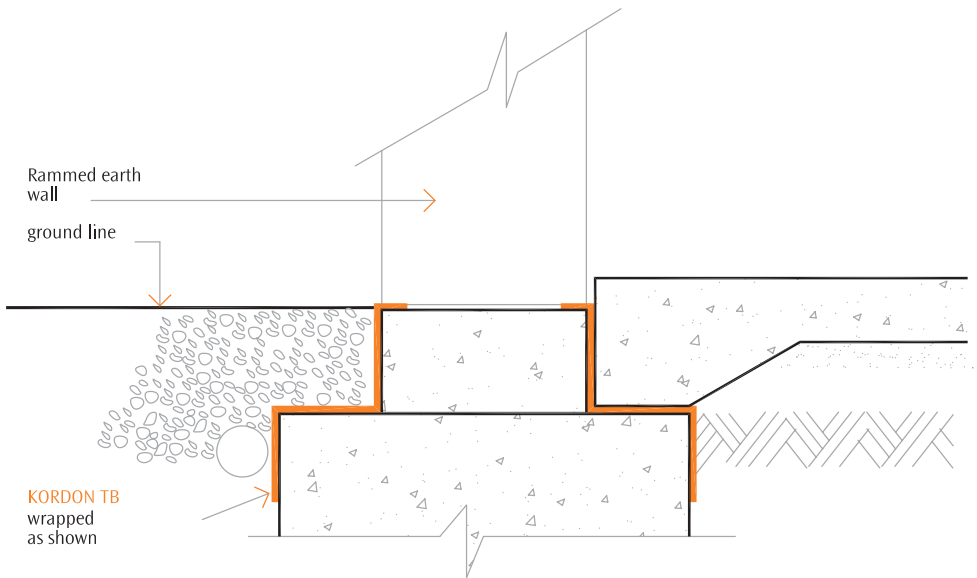
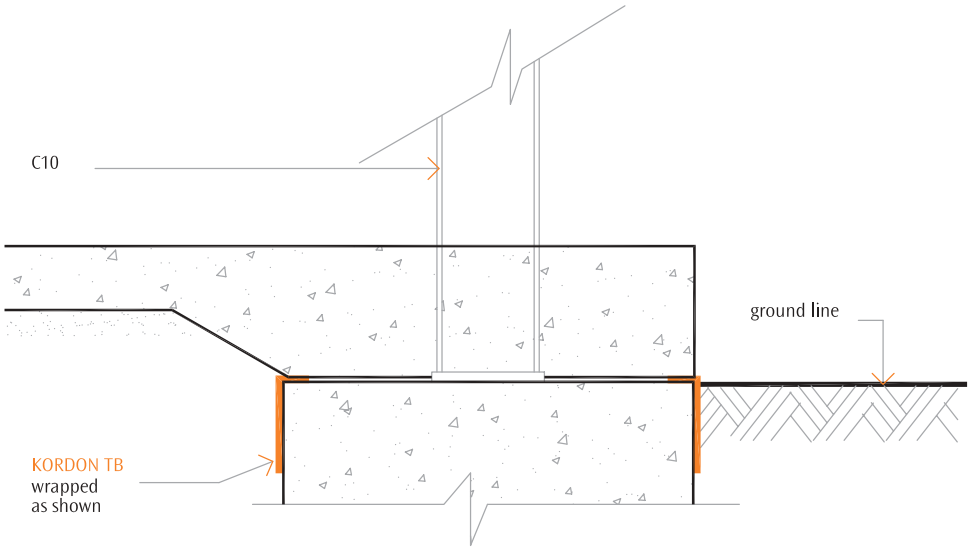
steel column
beyond

precast wall panel

outside concrete
paving

KORDON TB





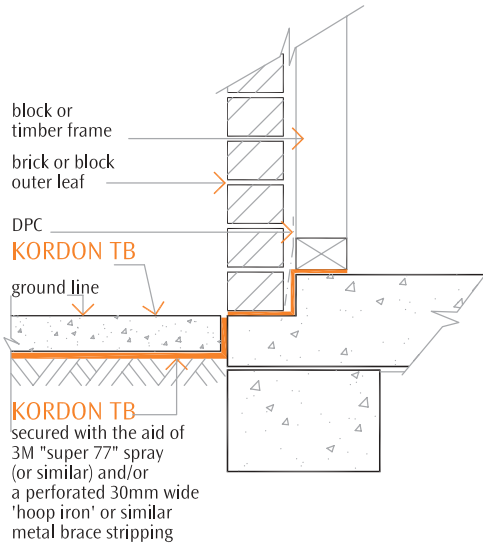
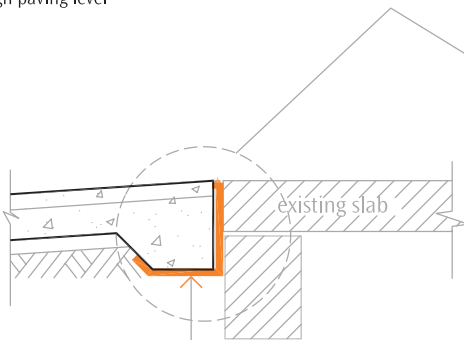


photo 1

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 1

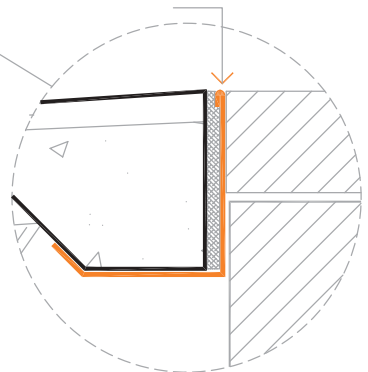
high paving level



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

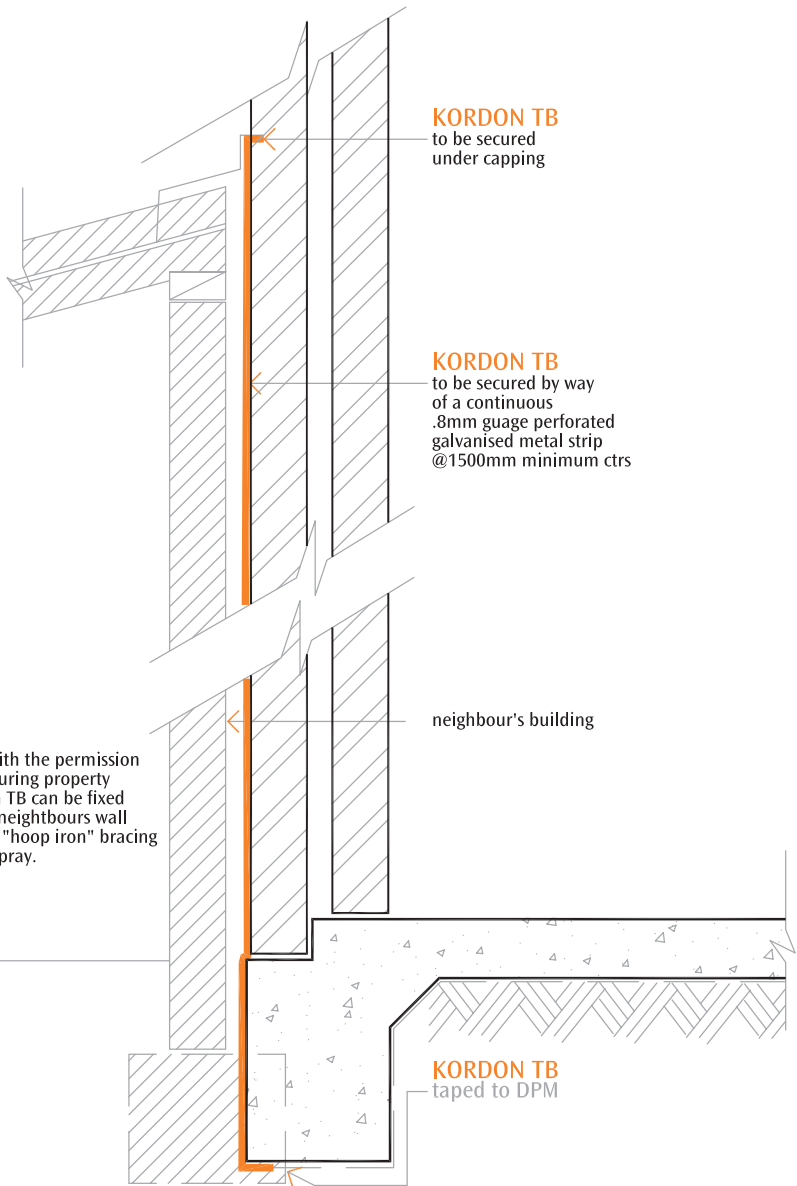
KORDON TB

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

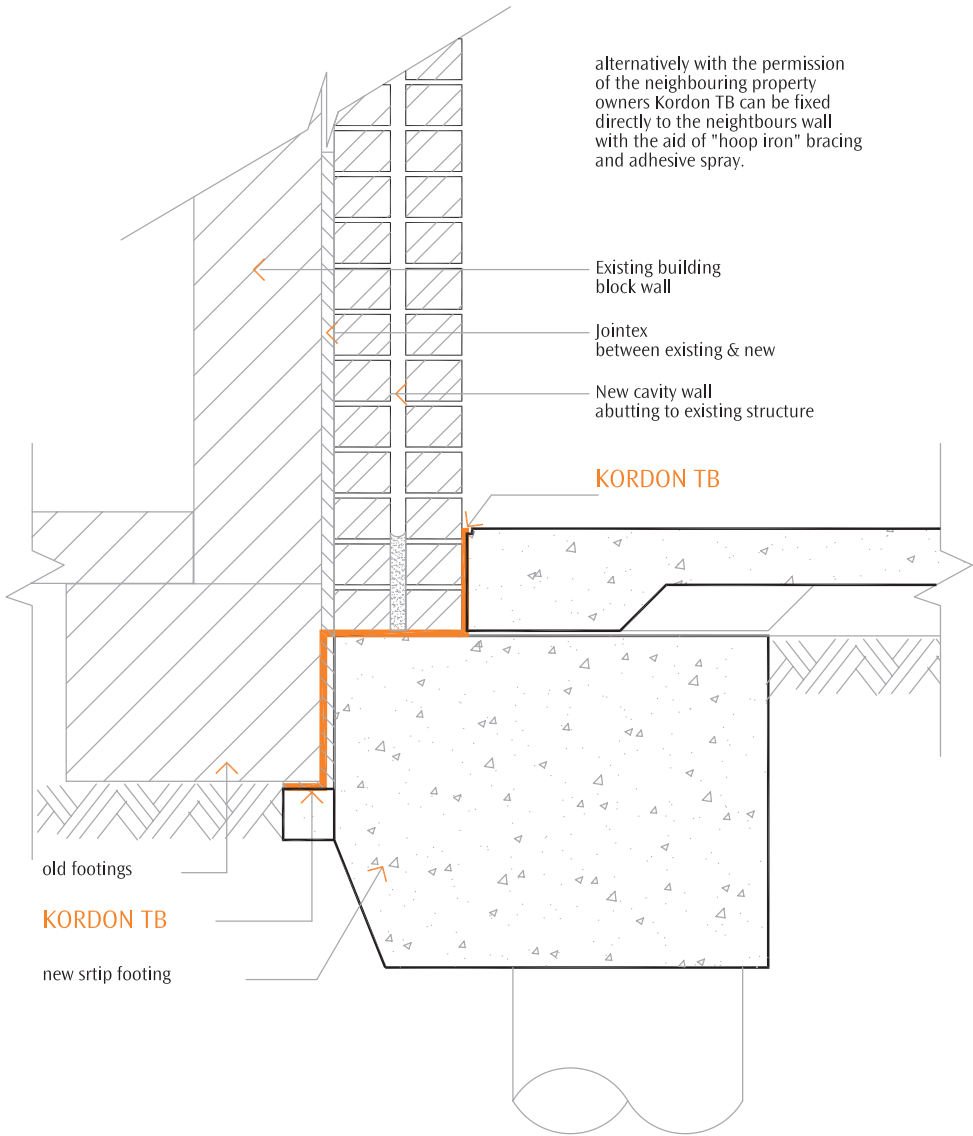


section detail 2

driveway

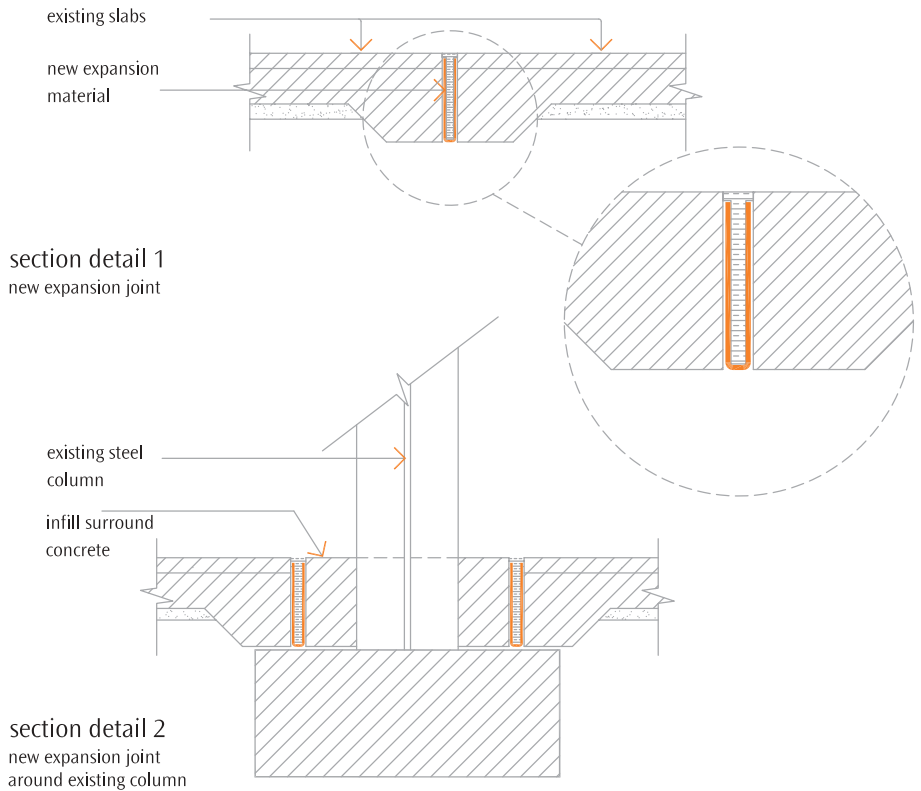


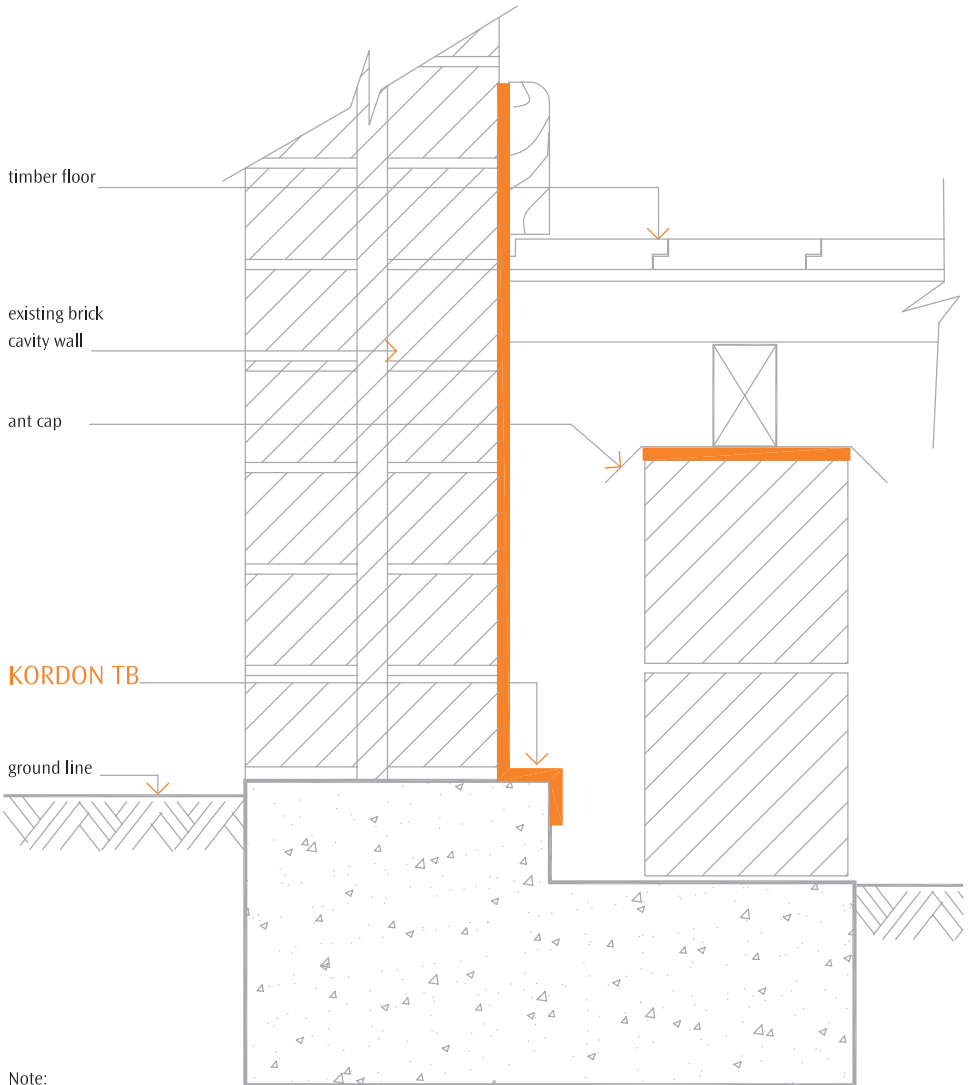
alternatively with the permission of the neighbouring property owners Kordon TB can be fixed directly to the neighbours wall with the aid of "hoop iron" bracing and adhesive spray.



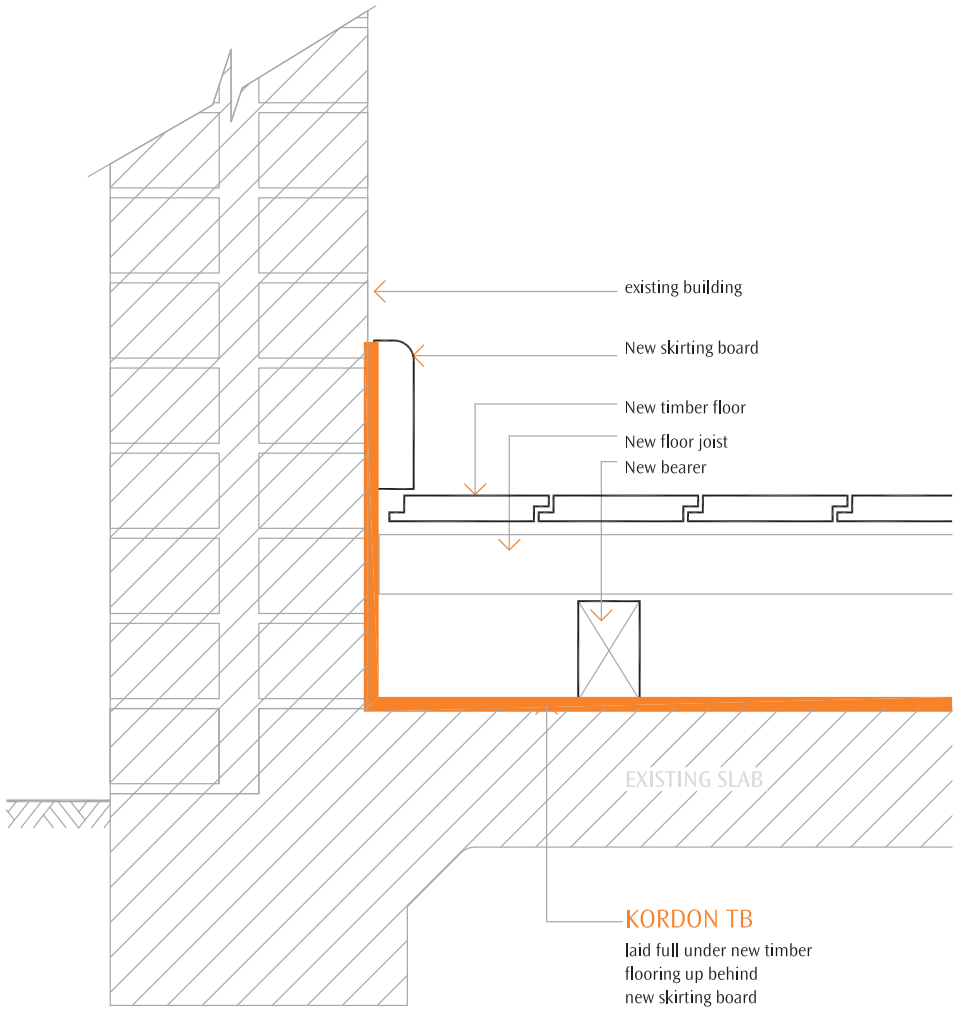
sketch below shows a existing slab floor to a factory
 the expansion material has deteriorated over time and in need of
 replacing.

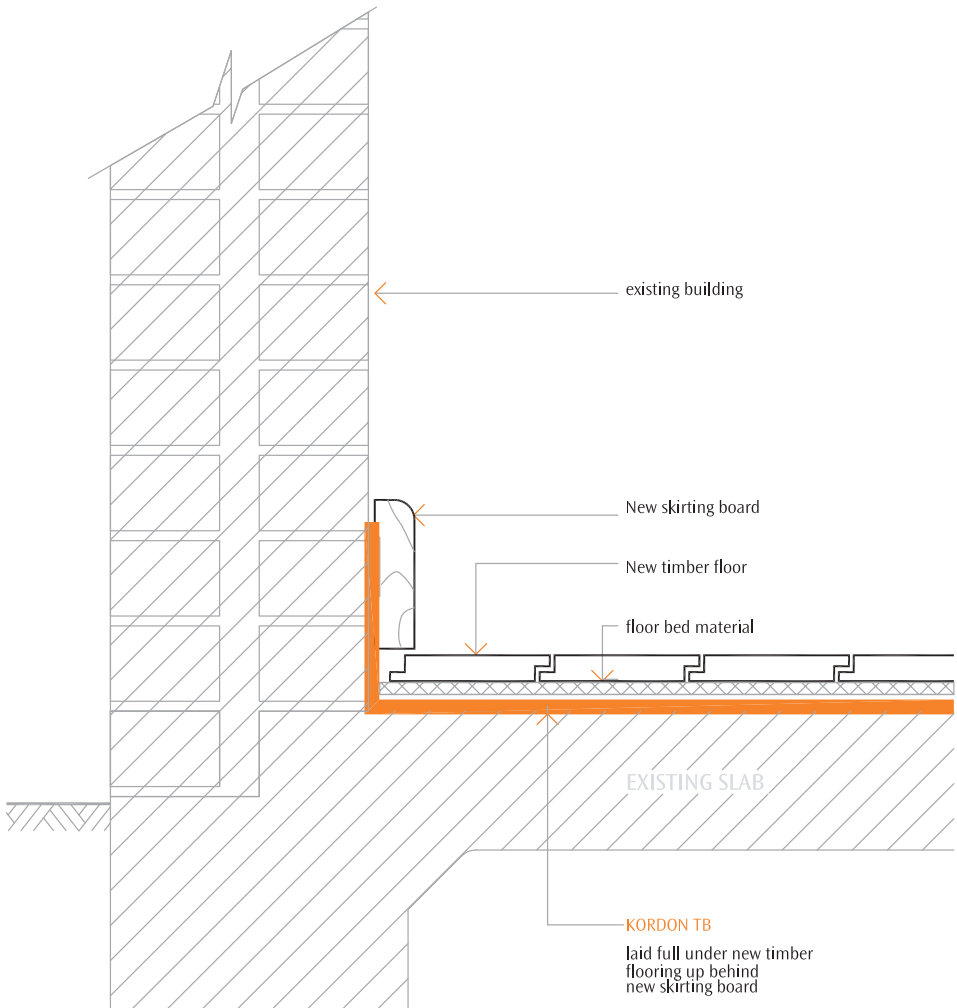
It was suggested that in replacing the expansion material Kordon TB
 could be installed to assist the pervention of concealed termite entry





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

floor bed material

EXISTING SLAB

KORDON TB

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 TB installation

a minimum of 50mm overlap is required at Kordon TB joints

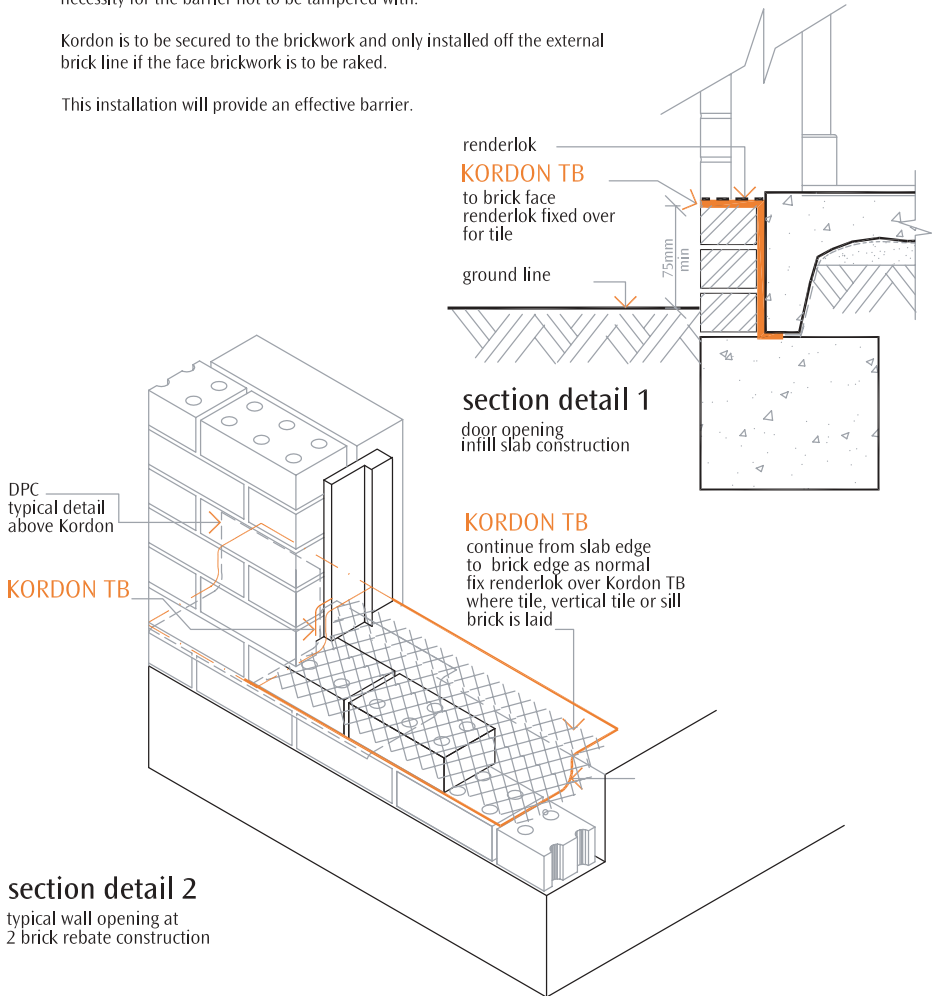
Kordon installed to brickwork, where a sill tile/brick/half brick is secured on top of Kordon.

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.





incorrect Kordon TB installation. Refer kd 001 and product design principle

1.



4.

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



2.

5.

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



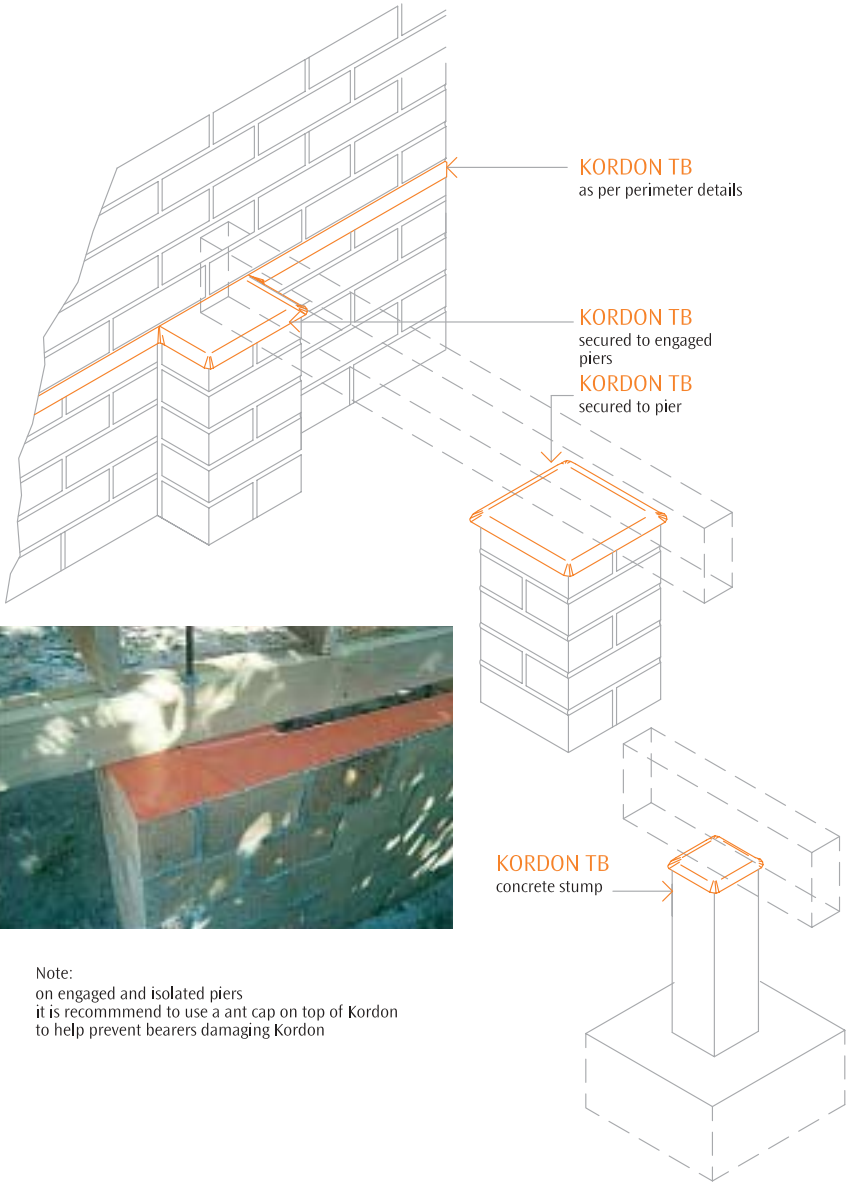
close up of 5.

3.

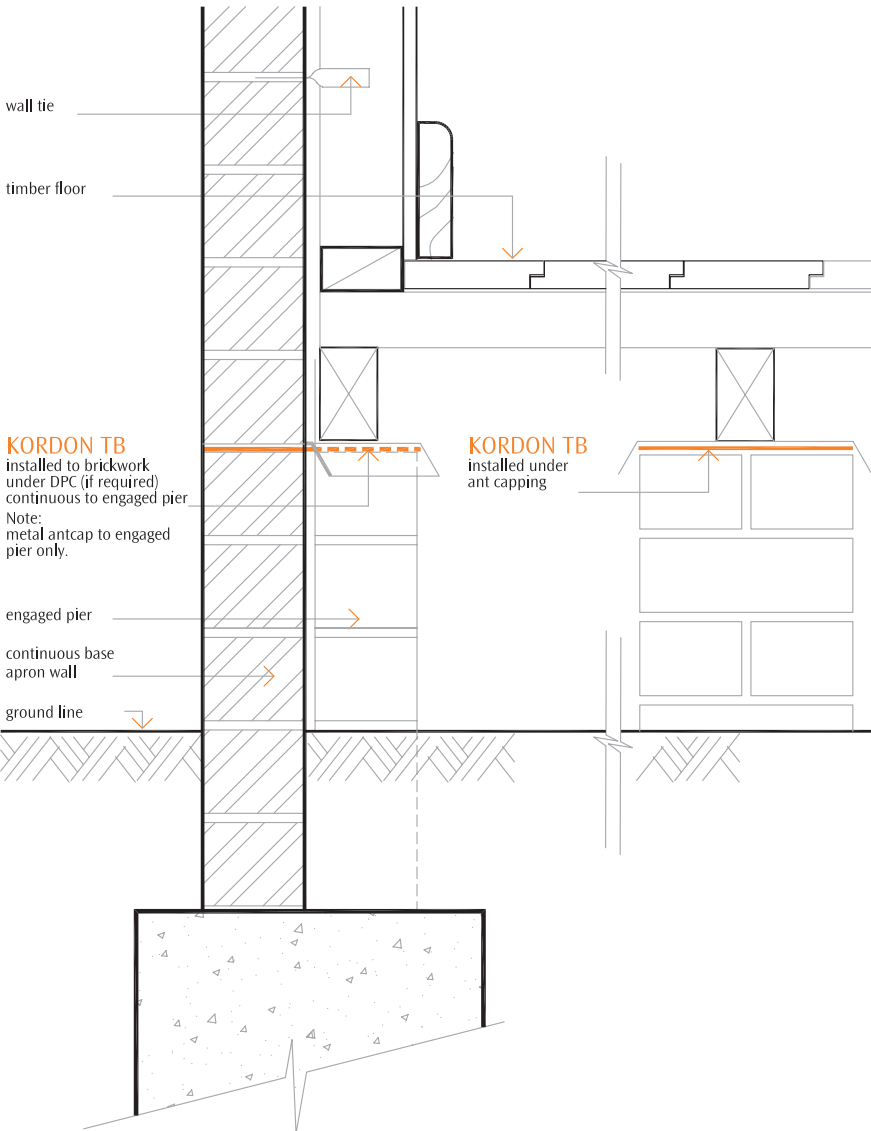
6.

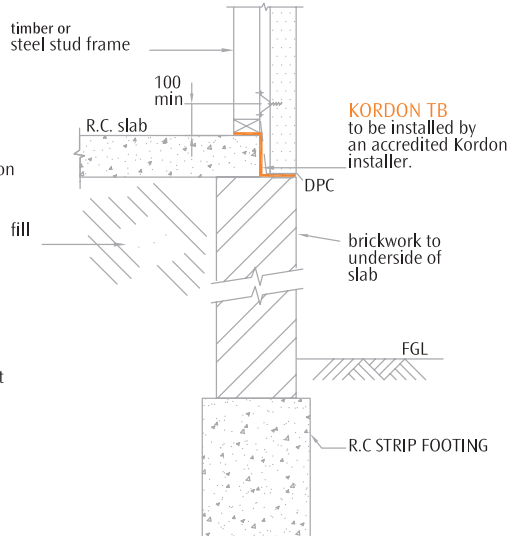
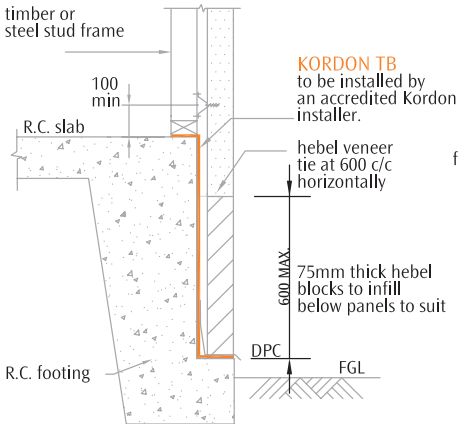
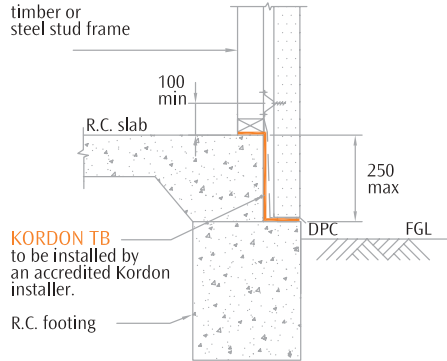
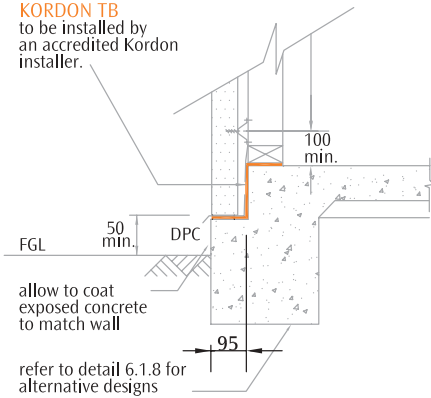


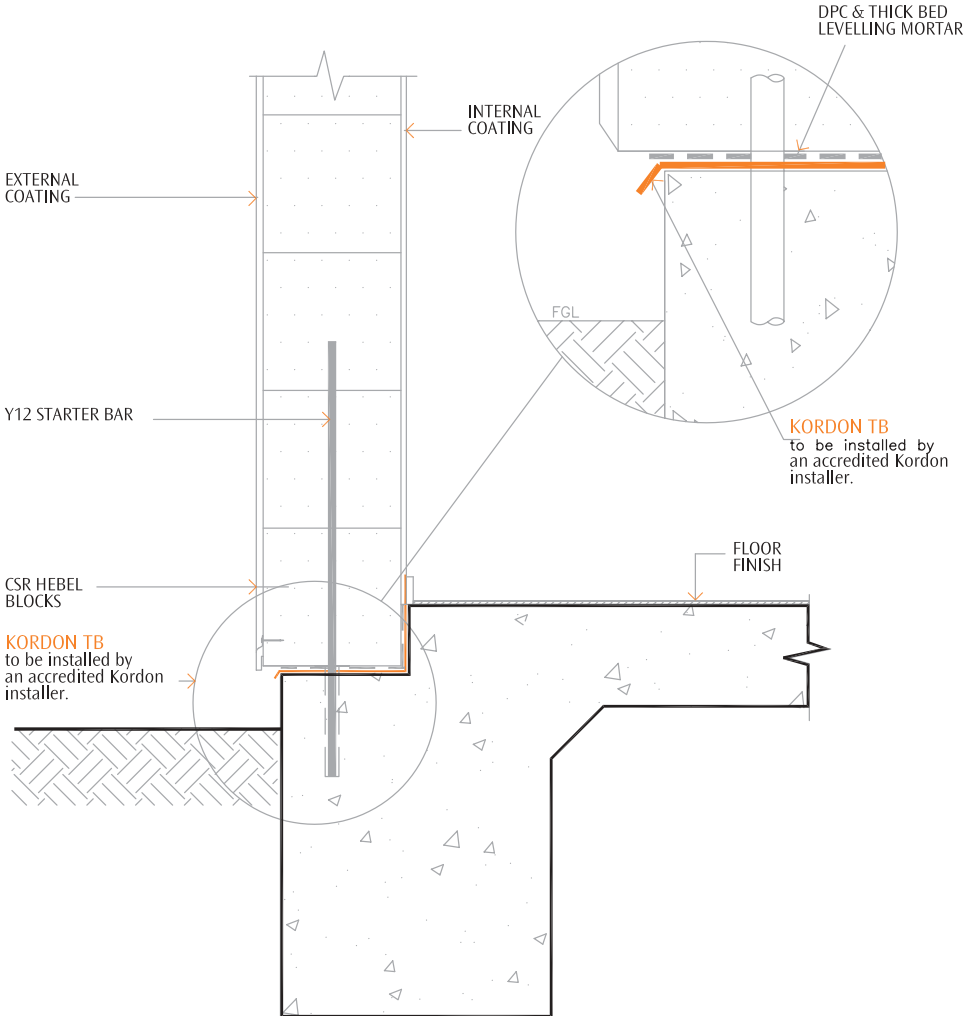
renderlok secured to horizontal & vertical to accommodate tiling specification

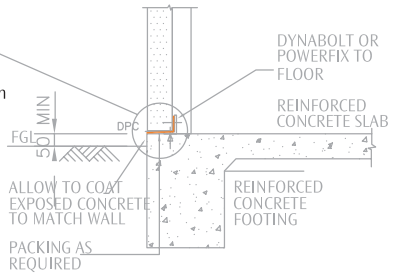
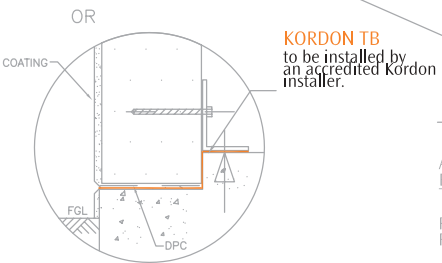
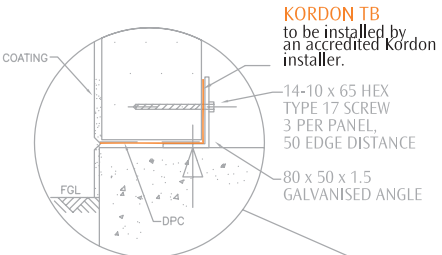
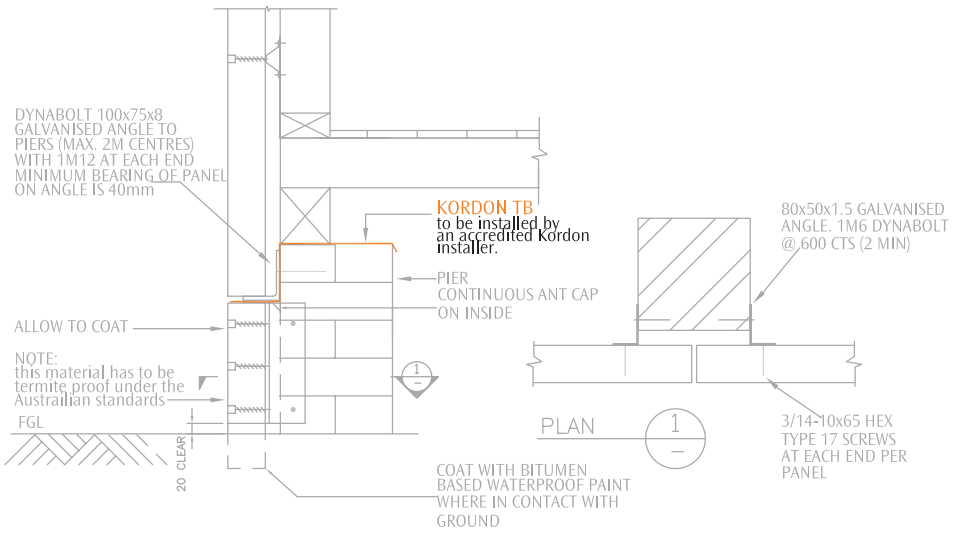


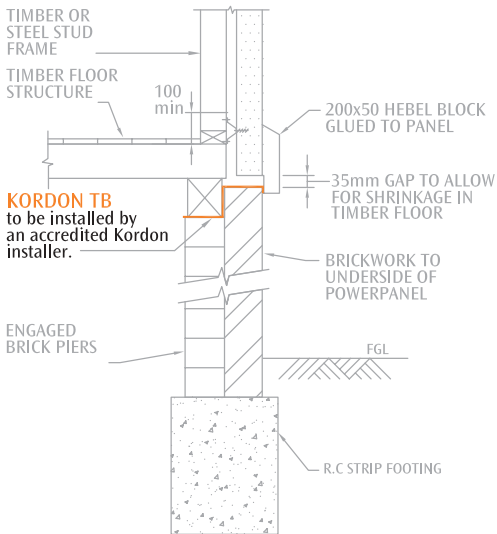
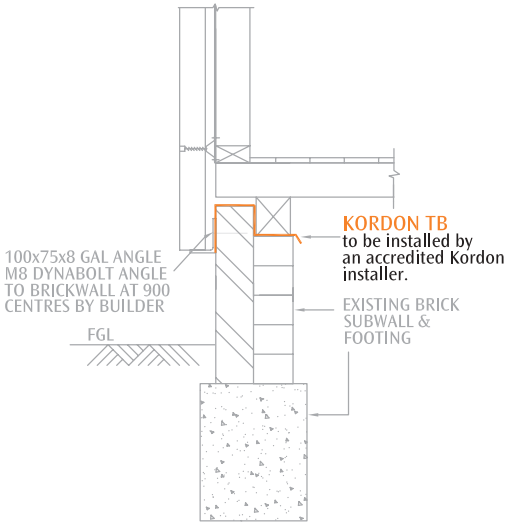
Note:
on engaged and isolated piers
it is recommend to use a ant cap on top of Kordon
to help prevent bearers damaging Kordon













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



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

| | | | |
|----------------|--------------------|--------------------|--------------------|
| Installation | <u>address1</u> | Installation Date: | <u>10/03/2004</u> |
| Address: | <u>address2</u> | | |
| | <u>address3</u> | | |
| | <u>address4</u> | | |
| Builder: | <u>buildername</u> | Phone Number: | <u>0344445555</u> |
| Owner: | <u>ownername</u> | Phone Number: | <u>0399998888</u> |
| Local Council: | <u>councilname</u> | Phone Number: | <u>03777766666</u> |

Job Type: jobtypedesc
Total square metres installed: 10
Number of service penetrations protected: 5
Product punctures repaired where/if necessary: Yes

| | | | |
|-----------------------|------------------------|-----------------------|-------------------|
| Company Contact: | <u>companycontact</u> | Accreditation Number: | <u>Admin</u> |
| Installer's Name: | <u>installersname</u> | Phone Number: | <u>WorkPhone</u> |
| Company Name: | <u>companyname</u> | Fax Number: | <u>faxnumber</u> |
| Address: | <u>address</u> | | |
| | <u>City</u> | | |
| | <u>StateOrProvince</u> | Post Code: | <u>PostalCode</u> |
| Authorised Signature: | <u></u> | Date: | <u>10/3/2004</u> |

Comments: CertificateComments



Warranty

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:

The Kordon barrier is damaged, modified, bridged or otherwise interfered with by any person or any act, fact, matter or thing beyond the reasonable control of Bayer. The Building is structurally modified, altered or otherwise changed in any way which would or may diminish the effectiveness of the Kordon as a Termite barrier. If at any time during the Warranty Period, the Owner

- (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.



BUILDING: address1
address2, address3, address4

DATE OF INSTALLATION: 10/03/2004

BAYER ACCREDITED INSTALLER: installersname
companyname
address, City, StateOrProvince, PostalCode

CONTACT NUMBER: WorkPhone

ACCREDITATION No: Admin

THIS WARRANTY SHALL BE VOID UNLESS THE KORDON HAS BEEN INSTALLED BY A BAYER ACCREDITED INSTALLER.

Bayer will grant additional specific warranty conditions where required to accommodate high density, commercial constructions, government buildings, etc on documented request.



 **KORDON**[®]
TERMITE BARRIER

Ph. 1800 634 913 www.kordontmb.com.au

Bayer Environmental Science 391-393 Tooronga Road Hawthorn East, Vic. 3123 ABN 87 000 226 022

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Bayer Environmental Science