

GTEK™ **DRYWALL**



WHY GTEK™?

WITH OUR ALL-AUSTRALIAN GTEK™ RANGE OF INTERIOR LINING PRODUCTS, YOU BENEFIT FROM SUSTAINABLE, QUALITY-TESTED TECHNOLOGY, FULL BGC INTERIOR LINING SYSTEMS COMPATIBILITY AND OUR CLASS-LEADING SERVICE NETWORK.

- **TECHNOLOGY /** Light, modular GTEK™ technology eases installation for seamless results
- SUSTAINABILITY / GECA certified: sustainable manufacture means higher Green Star ratings for your building
- AUSTRALIAN MADE / All-Australian: closest available links between local manufacture and supply
- **SERVICE /** Vast distribution network assures best-in-class service delivery
- QUALITY / Independent testing accords with Australia's toughest build-quality accreditations
- **SYSTEMS /** Full compatibility with extensive BGC interior lining systems range

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GTEKTM Drywall is uniquely designed to enable the lining of dry masonry walls with GTEKTM Wall. A fast, dry alternative to cement render and set plaster finishes, GTEKTM Drywall minimises potential delays to building projects associated with heavy, wet construction.



For a clean, easily-painted wall surface finish superior to cement render, GTEKTM Drywall minimises cracking, corrects misaligned walls and eliminates damaging render splashes.

What's good about GTEK™ Drywall

- ► Better finish than cement render particularly with patched walls
- ➤ Superior damage resistance
- ➤ Straighter walls less dependent on plastering to achieve flatness
- ► Can be laminated directly to masonry using GTEK™ Masonry Adhesive



PRODUCT INFORMATION

GTEK™ Drywall is purpose designed as a complete plasterboard wall and lining system, which complies with the requirements of the Building Code of Australia (BCA).

GTEK™ Drywall Lining System allows a wide range of architectural designs. It can be used to provide a serviceable and clean finish for all wall surfaces and window reveals. It allows correction of wall alignments.

Where required, GTEK™ Wet Area is used for bathrooms. toilets, laundries and kitchens, Joint treatment of GTEK™ Wall produces a smooth flush surface ready for decoration.

Note: The word 'masonry' as used in this brochure, includes concrete blocks, clay or calcium silicate bricks and autoclaved aerated concrete.

APPLICATION

GTEK™ Drywall Lining System can be used in the construction of

- Houses
- Renovation Projects
- Light Commercial Buildings

EARLY FIRE INDICES

BGC Plasterboard products have been tested in accordance to Australian Standard AS1530.3.

These tests deemed the following Early Fire Hazard Indices:

Ignitability Index	13
Spread of Flame Index	(
Heat Evolved Index	(
Smoke Developed Index	3

DESIGN CONSIDERATIONS

Services should be installed prior to the GTEK™ Drywall Lining System being fixed.

All wall fixtures MUST be fastened to the masonry wall. To prevent distortion of the plasterboard around the point of attachment:

- (a) Apply additional daubs of GTEKTM Masonry Adhesive
- where the fixture is to be located.

 (b) Locate metal spacers or ferrules between masonry wall and face of GTEK™ Wall.
- (c) Fix packing pieces between masonry wall and back of BGC Plasterboard during installation. Control joints incorporated in a building to permit movement in the structure must be carried through all areas lined with GTEK™ Wall.

Surfaces are to be isolated from structural elements by installing control joints:

- When a $\mathsf{GTEK}^\mathsf{TM}$ surface abuts any structural element or dissimilar wall assembly.
- In long wall runs, at not more than 12m centres.
- Where control joints exist in masonry wall.

Basic wall systems are not to be used where they may be exposed to excessive moisture or humidity. Specific designs are available for bathroom and shower locations.

The GTEK™ Wall Lining System is an alternative to solid plaster - not a means of isolating dampness.

All new masonry surfaces must be allowed to dry out to normal levels before installation of $\mathsf{GTEK^{TM}}$ Wall. All contamination i.e. dust, release agents etc is to be removed to provide a suitable surface for adhesion.

When lining true wall surfaces, an allowance of about 5mm should be made for adhesive thickness (per side).

HANDLING & STORAGE

Plasterboard should be stacked flat, up off the ground and supported on level, equally spaced (max 450mm) gluts.

Care should be taken to ensure edges of the Plasterboard are not damaged when handling.

Plasterboard should be delivered to site immediately prior to installation to reduce the risk of damage.

As per AS/NZ2588 – The area to be lined or partitioned shall be protected from the weather and sufficiently dry to ensure that the fixed gypsum lining will not suffer subsequent deterioration due to moisture absorption.

INSTALLATION DETAILS

GENERAL

Masonry surfaces are to be firm, clean, dry and free of dust, oil, form release agents and curing compounds.

Establish the basis of a true wall plane before commencing installation. Levelling pads are to be used where irregularities in wall surface exceed 15mm.

GTEK™ Wall sheets can be fixed horizontally or vertically.

Daubs of GTEKTM Masonry Adhesive can be applied to the wall surface or to the back of the sheets.

Hold sheets in position until adhesive sets by using temporary masonry nails.

Because GTEKTM Masonry Adhesive is a setting type cement, do not use mix after setting or hardening has commenced. Mix only a sufficient quantity so that:

- (a) The wall area prepared for lining at any time can be covered with one sheet of GTEK™ Wall.
- (b) The GTEK™ Masonry Adhesive will maintain its working properties for the duration of the installation and final positioning of the sheets.

GTEK™ Wet Area can be adhered direct to true or irregular masonry wall surfaces where it is to be used as a substrate for tiles. Additional mechanical fasteners must be used in tiled areas.

TRUE WALL SURFACES

Check alignment of the wall with a straight edge to establish the wall alignment.

Strike a chalk line on ceiling and floor for use as a guide to align the face of the $\mathsf{GTEK}^\mathsf{TM}$ Wall.

If you intend to apply the daubs to the wall, mark the wall where the sheet edges fall to keep daubs 50mm away from the edges of the sheet

Measure and cut the sheets to fit horizontally or vertically and stagger Butt Joints a minimum of 900mm.

Mix the GTEK™ Masonry Adhesive to a fairly thick consistency.

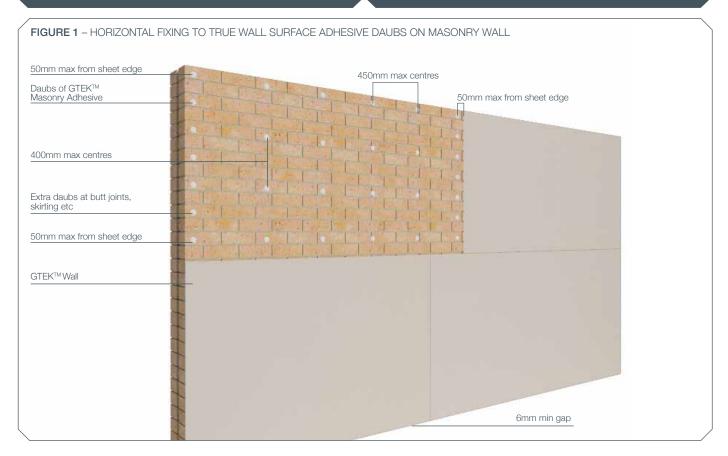
If the wall alignment is flat and true, using a 75mm broadknife, apply 50mm diameter daubs of adhesive, standing up a minimum of 15mm high, at not more than 50mm from all sheet edges and at 450mm maximum centres vertically and horizontally to the wall or to the back of the sheet. If the wall is out of alignment by up to 15mm, bigger daubs are recommended.

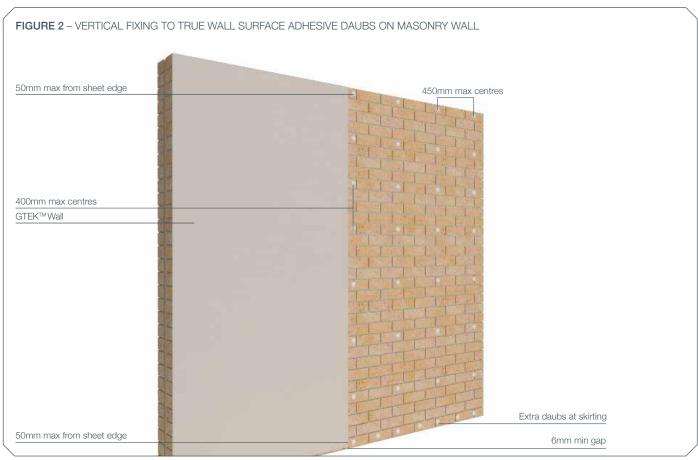
Additional daubs must be applied at butt joints, external angles and around power points, plumbing fixtures, doors, windows and skirtings.

Position boards and use a straightedge to tamp the boards into alignment both vertically and horizontally. Hold sheets in position for at least 80 to 100 minutes, to allow adhesive to set, by temporary masonry nails through sheet edges. If necessary, use temporary blocks in the field of the board.



INSTALLATION DETAILS





IRREGULAR WALL SURFACES

Levelling pads are to be used where irregularities in the wall surface exceed 15mm.

Where the wall requires more than 25mm of packing to bring it back to a true line, a furring system should be used.

Irregular wall surfaces require straightening with a series of levelling pads, spaced to suit width of sheets.

Check the wall with string lines or straight edge to find high spots and use these as a guide for the level to be set.

Determine the true line for finished wall surface, and mark out $\mathsf{GTEK^{TM}}$ Wall widths on the wall.

Position 75mm x 50mm alignment pads of GTEK™ Wall as illustrated, and attach to wall with GTEK™ Masonry Adhesive to a true line

Space pads about 100mm from floor and at midpoints as illustrated. Alternatively, a 100mm wide GTEK Wall strip can be used at the skirting line.

Measure and cut sheets to fit horizontally or vertically.

Mix the $\mathsf{GTEK}^\mathsf{TM}$ Masonry Adhesive to a fairly thick consistency.

Apply 50mm diameter daubs of adhesive to the wall, standing up a minimum of 25mm high, at not more than 50mm from all sheet edges and at 400mm max centres vertically and 450mm max centres horizontally.

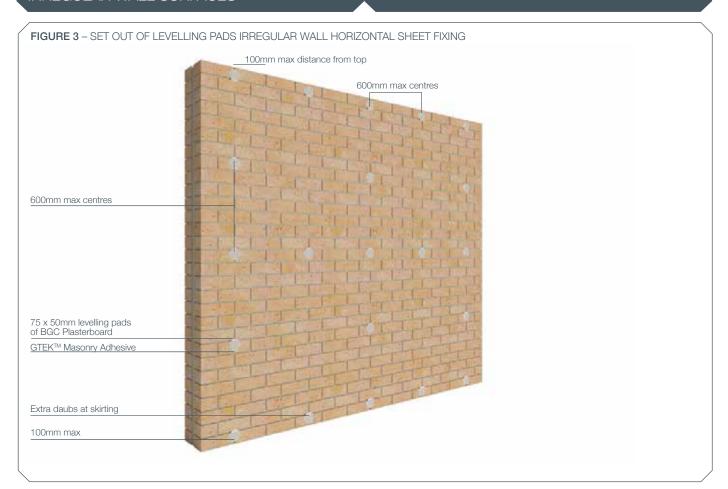
Apply higher daubs where necessary.

Additional daubs must be applied at butt joints, external angles and around power points, plumbing fixtures, doors, windows and skirting.

Position boards and use a straight edge to press the boards back onto the levelling pads. Hold sheets in position for at least 80 to 100 minutes, to allow adhesive to set, by temporary masonry nails through sheet edges into the levelling pads. If necessary, use temporary blocks in the field of the board.

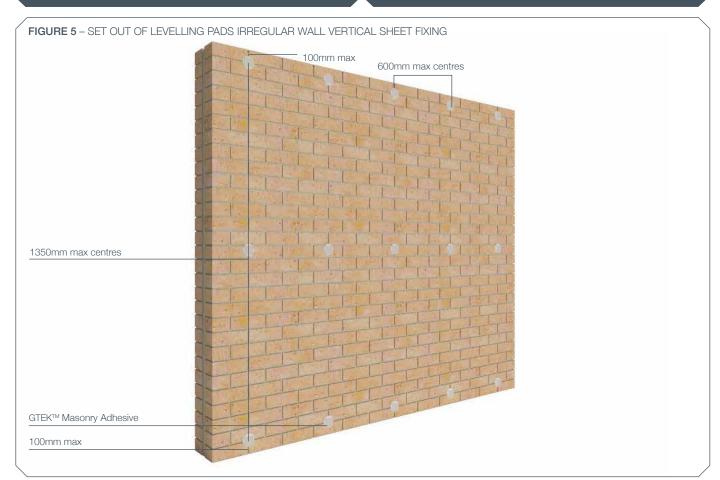


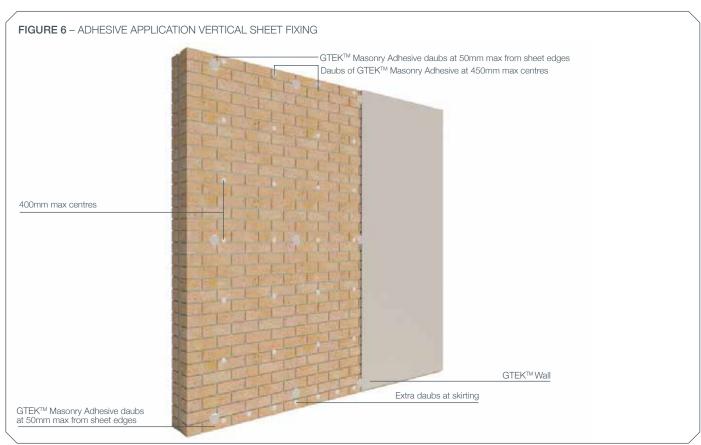
IRREGULAR WALL SURFACES





IRREGULAR WALL SURFACES







CONTROL JOINTS

 $\mathsf{GTEK}^{\mathsf{TM}} \ \mathsf{Wall} \ \mathsf{surfaces} \ \mathsf{are} \ \mathsf{to} \ \mathsf{be} \ \mathsf{isolated} \ \mathsf{from} \ \mathsf{structural} \ \mathsf{elements} \ \mathsf{by}$ installing control joints:

- (a) When a GTEK™ Wall surface abuts any structural element or dissimilar wall assembly.
 In long wall runs, at not more than 12m centres.

Preconstruction planning of control joint locations is recommended to satisfy both structural and aesthetic considerations.







Control joints should be installed:

- To coincide with any movement control (expansion) joints in the structure.
- At the junction of any dissimilar base wall type or construction.
- To break any continuous run of plasterboard greater than 4.2m.

DOOR JAMB DETAIL



WINDOW REVEAL

Cut widths of GTEK™ Wall for window reveals and window heads so that they will line up with the face of wall or levelling pads if used.

Use a paper-bound edge of square edge GTEK™ Wall to abut the window frame, or finish using Rondo P15 Stopping Angle or Casing Bead. Some window frames have allowance for Drywall to fit behind

Apply daubs of GTEK™ Masonry Adhesive at 200mm centres to the back of the GTEK™ Wall reveal strips.

Press GTEK™ Wall reveal strips into position, maintaining accurate margins to the window frame. If necessary, support in position by propping.

INSTALLATION IN WET AREAS

NON TILED AREAS

For areas that are not to receive ceramic tiles, install GTEK™ Wet Area with GTEK™ Masonry Adhesive, using daubs at the same centres as detailed previously.

TILED AREAS

Wall areas that are to receive ceramic tiles, such as a shower recess or shower over a bath, must be fastened with mechanical fixings as well as GTEKTM Masonry Adhesive. Daubs of adhesive must be applied where mechanical fixings are to be inserted to support the plasterboard. Mechanical fasteners must not be installed for at least 24 hours after the GTEKTM Masonry Adhesive has cured.

Adhesive daubs and fasteners are to be applied in a 200mm x 400mm grid pattern commencing 50mm from sheet edges and tile line, as illustrated. Refer to point below regarding weight.

For the first row of daubs at floor level and above the bath, and around plumbing penetrations, apply additional adhesive daubs to support the plasterboard sheet edge.

TILED AREAS CONT.

Position boards, and use a straight edge to tamp the boards into alignment both vertically and horizontally. Hold sheets in position until adhesive sets (80 to 100 minutes) by temporary masonry nails through sheet edges.

IMPORTANT // When cutting GTEK™ Wet Area, mark on the face of the sheet where the plumbing pipes and electric wires are located. This will ensure the nylon anchors or screws do not penetrate pipes or wires.

When the adhesive has set hard, mechanical fastenings must be inserted to coincide with adhesive daubs.

Where walls are Autoclaved Aerated Concrete, use 48mm screws.

Where walls are clay or calcium silicate bricks, or concrete blocks, pre-drill through the GTEK™ Wall and into the masonry before inserting countersunk head nylon anchors.

Plasterboard joints in tiled areas are to be set with BGC Exterior & Wet Area Base Coat and paper tape only.

GTEK[™] Wet Area 10mm and 13mm when adhered to masonry substrate with GTEK[™] Masonry Adhesive, that comply with the fixing requirements in this brochure, is suitable for the application of ceramic tiles under the conditions and limitations below:

- Maximum tile weight 32kg/m² GTEK™ Wet Area 10mm or 13mm
- The adhesive method of fixing GTEK™ Wet Area to masonry walls is not to be used in areas or regions subject to long periods of humidity
- Installation has to comply with AS/NZS2589-2007 Gypsum Linings plus full compliance with AS3740:2010 Waterproofing for Domestic Wet Areas
- Adhesive pattern for thin tiles i.e. less than 6.5mm in thickness (up to 12.5kg/m²) is 400x200; thicker tiles up to 12.5mm (up to 32kg/m²) require the grid pattern to be reduced to 300x200. In all instances use GTEK™ Masonry Adhesive daubs of 50x50x10mm thickness



DIRECT ADHESIVE FIXING

Sheets may be installed horizontally or vertically.

Ensure wall is:

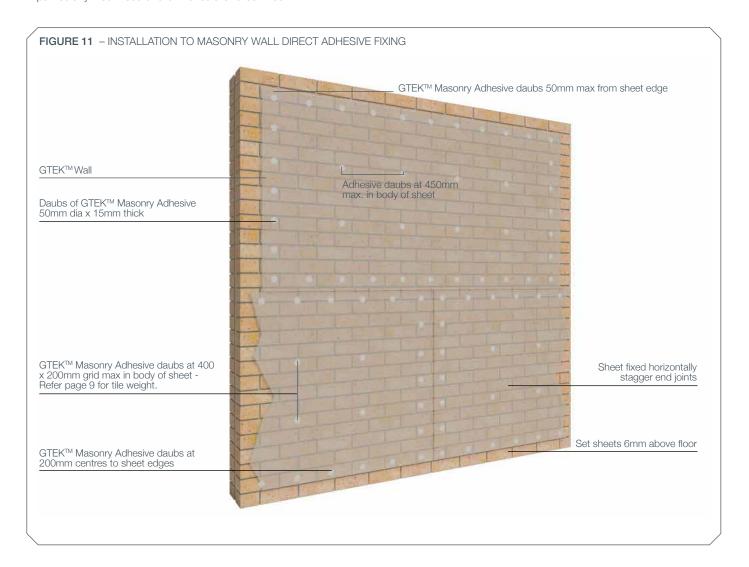
- Clean and dry
- Free from contaminants such as dust, oil or grease which will prevent good bonding.

Using GTEK™ Masonry Adhesive, apply 50mm x 15mm high daubs of adhesive to the wall. Daubs must be applied at a 400 x 200mm grid pattern throughout the body of the sheet and less than 50mm from all sheet edges. It is recommended that the daubs be spaced at 200mm centres around the sheet edges, particularly if cornices or architraves are to be fitted.

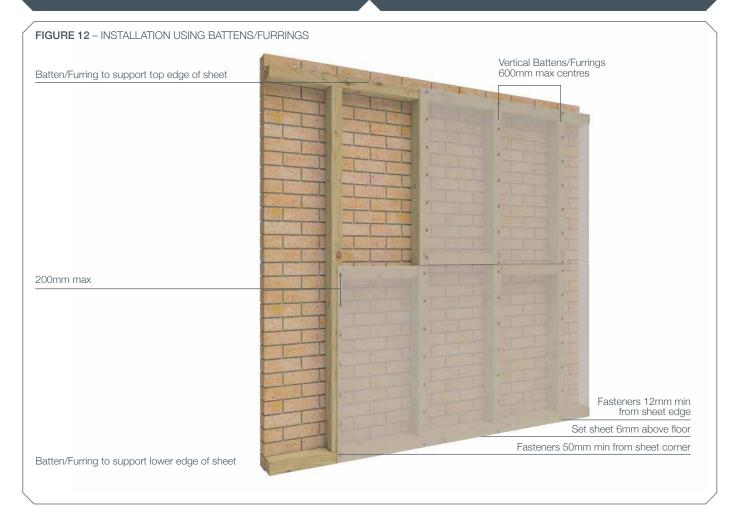
Position the GTEK $^{\text{\tiny{TM}}}$ Drywall sheets so that they are 6mm clear of the floor.

Press the plasterboard into the adhesive, ensuring the sheet finishes flat and true; use of a straight edge is recommended.

Apply temporary restraints, either props or nails into the base wall mortar joints until the adhesive is dry – normally 24 hours. Nail the temporary restraints at about 600mm centres around the sheet perimeter and at about 1200mm centres in the body of the GTEKTM Drywall.



BATTENS AND FURRINGS



Install services before installing GTEK $^{\!\top\!\!\!M}$ Wall.

Sheet ends to be joined centrally over a batten or furring channel. For untiled walls fix at a maximum of 200mm centres on sheet ends and at 300mm maximum centres in the body of the sheet.

For tiled walls, fixings are to be at a maximum of 200mm centres on the sheet ends and also in the body of the sheet. Where the wall is to be tiled, it is recommended that noggings be installed under all sheet joints to alleviate any sheet deflection upon impact.

Control joints should be installed:

- To coincide with any movement control (expansion) joints in the structure.
- At the junction of any dissimilar base wall type or construction. To break any continuous run of plasterboard greater than 4.2m tiled applications or 6m untiled applications.



TIMBER AND STEEL BATTENS

Sheets may be installed horizontally or vertically.

The wall should be battened out generally in accordance with Figure 12.

Timber battens should have a minimum thickness of 40mm to allow adequate nail penetration and holding. Timber battens that support sheet joints should have a minimum face width of 45mm. All other battens should have a minimum face width of 35mm.

Steel battens/furrings that support sheet joints should have a minimum face width of 38mm. All other steel battens/furrings should have a minimum face width of 30mm.

Typical steel batten systems are Rondo Part No 129 or 308 furring channels with Rondo Part No 237 clips, or Peer FC18/FC28 channels with C37 clips. See Figure 13.

Vertical battens must be provided at a maximum of 600mm centres to suit sheet joints.

The battens should be packed to correct any misalignment or unevenness in the base wall.

Fix the battens to the base wall using suitable masonry nails or wall anchors.



PLASTIC NAILS

This system is only suitable for use with standard density (approx. 550kg / m3) – Autoclaved Aerated Concrete (AAC) block walls. For higher density AAC use the furring channel system.

The base wall should be flat and true (maximum variation must not exceed 15mm).

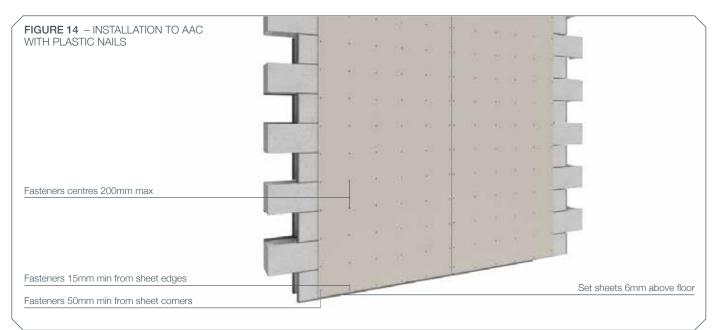
Sheets may be installed horizontally or vertically.

The sheet layout should be generally in accordance with Figure 4&6.

Chase the walls and install any services before installing $\mathsf{GTEK}^\mathsf{TM}$ Drywall.

Using an 8mm hole punch, indent the GTEK $^{\text{TM}}$ Drywall at all fastening points to locate and assist penetration of the plastic nails. See Figure 14.

Install the GTEK $^{\rm TM}$ Drywall, and fix by hammering the plastic nails flush with the sheet surface.



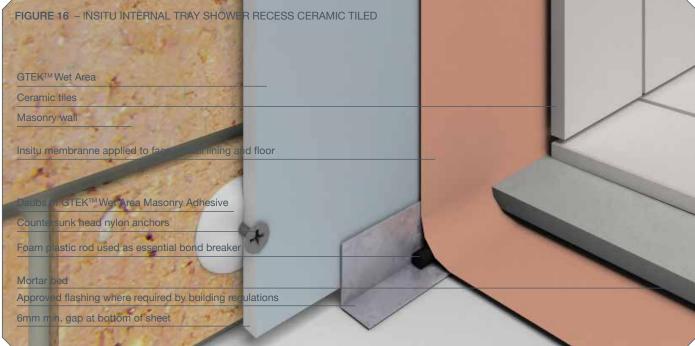
WATERPROOFING

The entire $\mathsf{GTEK}^\mathsf{TM}$ Wet Area surface that is to receive tiles in a shower recess or bath over shower situation, as well as the wall/floor junction must be treated with a flexible waterproofing membrane material which continues to the floor waste.

A compatible tile adhesive is to be used to fix tiles to waterproofing membrane. Refer to $\mathsf{GTEK^{TM}}$ Wet Area brochure for additional installation information.

Note // Paper tape only in wet areas.







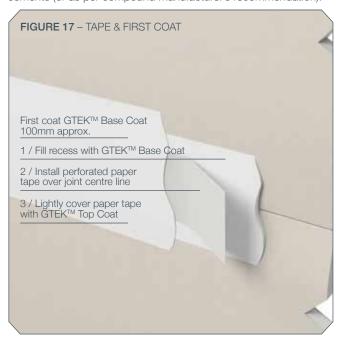
TAPE & FIRST COAT

Apply the GTEK $^{\!\top\!\!M}$ Base Coat bedding cement to fully fill the recess of the joint.

Centrally bed the perforated paper tape into bedding coat and remove any air bubbles. Apply additional cement and cover lightly with $\mathsf{GTEK^{TM}}$ Base Coat.

Stop-up all fixing points and apply $\mathsf{GTEK}^\mathsf{TM}$ Base Coat to any damaged areas.

Allow the GTEK™ Base Coat to set and dry for a minimum of 24 hours in damp or humid conditions or 1 hour for setting type cements (or as per compound manufacturer's recommendation).



SECOND COAT

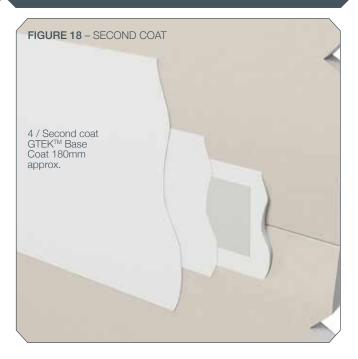
Lightly sand the first coat.

Check the Level of Finish required in the architects' specification, before applying the second coat as detailed in Plasterboard Finish Selection (page 4).

Apply a second coat of $GTEK^{TM}$ Base Coat 180mm wide over the joints, making sure to feather out the edges.

Apply a second coat to all fasteners and damaged areas, feathering out by about 25mm.

Allow the second coat to set and dry for a minimum of 24 hours or 1 hour for setting type cements (or as per compound manufacturer's recommendation).

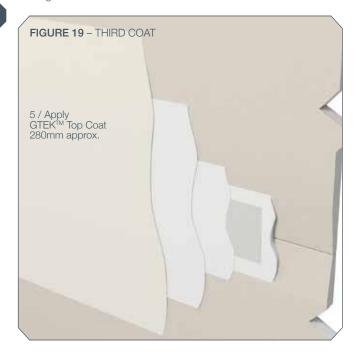


THIRD COAT

Lightly sand the second coat.

Apply a thin finish coat of GTEK™ Top Coat centrally over second coat, after it has set and hardened. Dampen the outer edges of the finish coat, with a sponge to feather out the GTEK™ Top Coat about 280mm approx wide.

Apply a thin final coat of $\mathsf{GTEK^{TM}}$ Top Coat over all fasteners and damaged areas.



SANDING AND FINISHING

Allow the GTEK $^{\!\mathsf{TM}}$ Top Coat to dry at least 24 hours.

Lightly sand smooth with 150 grit paper or with 220 sanding mesh.

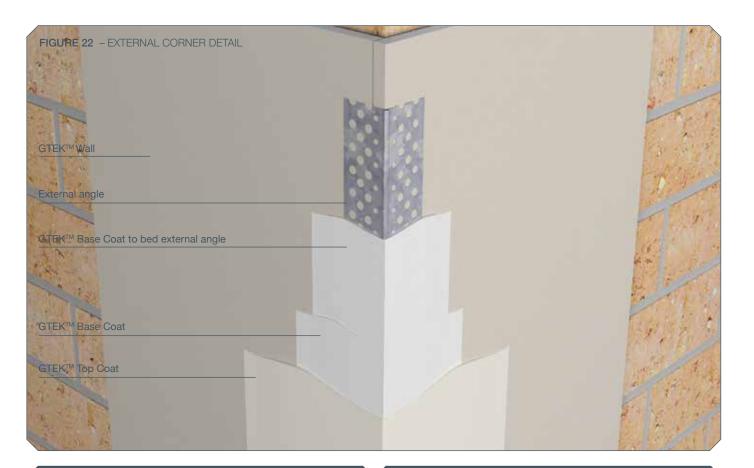
Wipe off excess dust with a slightly damp cloth.



GTEK™ Drywall will perform to the architects' specification and the Australian Building Codes, provided all procedures are followed as per the compound manufacturer's specification.







DECORATION

 $\mathsf{GTEK^{\textsc{TM}}}$ does not recommend spray painting to achieve level 4 or higher finish.

Ensure all stopping of joints and nail holes is completed to AS/NZ 2589:2007.

Brush down area prior to painting to ensure board is free from sanding dust.

Roller apply a proprietary branded quality sealer to the entire sheet area including joints, followed by two coats of full weight flat acrylic paint.

Choice of colour should be considered carefully - darker colours will exacerbate any defects and highlight any imperfections.

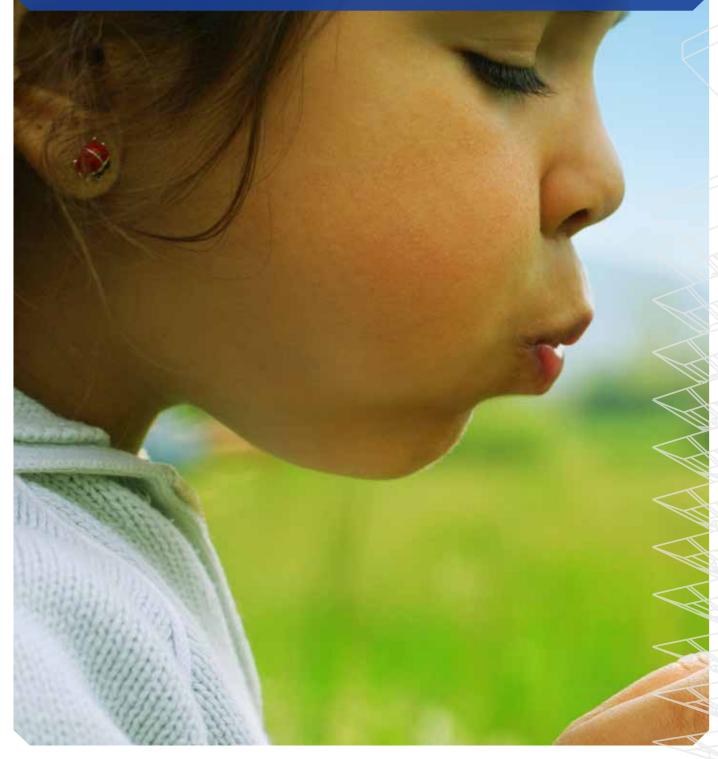
Where high humidity is of concern, ensure the chosen painting system will protect joints from moisture absorption.

GTEK™ Wall must be painted within 3 months of installation. exposed paper finishes will gradually discolour due to UV light, and this may affect the quality of the paint finish.

NOTES	



At BGC we care about the environment and now have a range of GECA Certified Plasterboard Products available. As part of our commitment to sustainability we are offering our Environmentally Certified GTEKTM range at no extra cost to you. So now you save money whilst together we save the environment.







BGC Plasterboard shares the general community concern for the environment and seeks to reduce its environmental footprint in all aspects of its operations. That means you can specify GTEK™ to help create you next green star rated home or project.

We use up to 15% recycled gypsum in our boards and we use 100% recycled paper lining front and back.

BGC Plasterboard has set prudent environmental targets for waste minimisation and energy and water use, and is an active participant in environmental reporting through the Energy Efficiency, Waterwise and Emissions reporting programs.

Through strict quality control systems, production waste is minimised and wastage is recycled back into new plasterboard.

Good Environmental Choice Australia is an environmental labelling program which aims to provide consumers with the knowledge that the product they are purchasing has met certain environmental performance standards which have been developed and assessed in line with International labelling standards.

Scientifically recognised benchmarks for environmental performance have been developed against which products and services are assessed and evaluated to determine whether the product or service should be awarded the Good Environmental Choice Label. GECA certification is recognised by the Green Building Council of Australia and may assist in achieving up to 3 Green Star points.

All GTEK™ products have been certified by GECA which means that the products and their manufacturing environment have been evaluated and deemed to comply with the strict guidelines set by GECA

We're proud to wear the Good Environmental Choice label, it shows our products and manufacturing environment comply with GECA's strict guidelines.

Now 'Building it better with BGC' also means building a cleaner and more sustainable environment.



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CONTACT

TO CONTACT YOUR NEAREST BGC STOCKIST, PLEASE CALL:

ADELAIDE TELEPHONE 08 8250 4962

BRISBANE TELEPHONE 07 3271 1711

MELBOURNE TELEPHONE 03 9392 9444

PERTH TELEPHONE 08 9374 2900

SYDNEY TELEPHONE 02 9771 9660

NEW ZEALAND TELEPHONE 0011 64 9273 1457

TECHNICAL HELP LINE 1300 652 242



GTEK™ PRODUCT RANGE

- ► GTEKTM Wall is an interior wall lining system where cost effectiveness and economy of effort is crucial.
- ► GTEKTM Curve flexible plasterboard enables the creative execution of curves on interior walls and ceilings.
- ► GTEKTM Ceiling is a 10mm plasterboard sheet designed specifically for ceiling use where joists are at 600mm.
- ➤ GTEK™ Fire is used in fire-rated systems, consisting of single or multiple layers of board.
- ► GTEKTM Fire & Wet Area is designed for use in wet areas governed by fire resistance limitations (FRLs).
- ▶ GTEK™ Wet Area is water-resistant plasterboard for walls in such wet areas as bathrooms, laundries, toilets and cleaning rooms.
- ▶ GTEK[™] Sound is high-density plasterboard specifically designed to reduce unwanted noise detectable through walls and ceilings.
- ▶ GTEK™ Impact is ideal for high-traffic areas where walls are subjected to regular stress.
- ▶ GTEK™ Total Plus offers marketleading fire, water, sound and impact resistance, together with GECA certification in recognition of high percentages of recycled materials.
- ► GTEKTM Cornice adds exciting finishing touches to interior wall and ceiling joints in new builds and renovations.

WARRANTY

We warrant that our products are free from defects caused by faulty manufacture or materials for a period of 15 years from the date of purchase. If you acquire any defective products, we will repair or replace them, supply equivalent replacement products or refund the purchase price within 30 days of receiving a valid claim subject to product inspection and confirmation of the existence of a defect by BGC. We will bear the cost of any such repair, replacement or refund.

This warranty is given by:

BGC PLASTERBOARD PTY LTD

Ground Floor, 290 Bushmead Rd, Hazelmere, WA 6055 Phone: (08) 9374 2900 Fax: (08) 9374 2901

To claim under this warranty, you must provide proof of purchase as a consumer and make a written claim (including any costs of claiming) to us at the address specified above within 30 days after the defect was reasonably apparent, or if the defect was reasonably apparent prior to installation, the claim must be made prior to installation. You may not claim under this warranty for loss or damage caused by:

- ► faulty or incorrect installation by non-BGC installers (BGC's installation procedures are at gtekplasterboard.com.au);
- ▶ failure to comply with the Building Code of Australia or any applicable legislation, regulations approvals and standards:
- products not made or supplied by BGC;
- ▶ abnormal use of the product; or
- normal wear and tear.

The benefits available under this warranty are in addition to other rights and remedies of the consumer under the law. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

