



GTEK™ CEILING
GTEK™ CORNICE
GTEK™ WET AREA





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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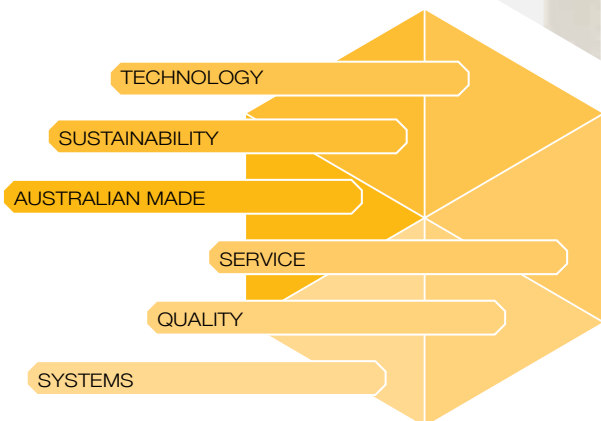
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GTEK™ CEILING

GTEK™ Ceiling is a 10mm plasterboard sheet designed specifically for ceiling use. Suitable for residential and commercial applications, GTEK™ Ceiling can be used in ceilings where ceiling joists are spaced at max 600mm intervals.



GTEK™ Ceiling is a lightweight, easily-installed plasterboard. Featuring useful recesses on the long edges, a smooth continuous surface is assured on completion of installation.

What's good about GTEK™ Ceiling

- ▶ Residential and commercial interior ceiling lining system
- ▶ Cost-effective: quick and easy to install

PRODUCT INFORMATION

This manual is written to conform to the requirements of the Building Code of Australia (BCA) and AS 2589 Gypsum Linings - Applications and Finishes. Any deviations to these requirements are made on the basis of an "alternate solution" as provided for by the BCA.

FINISH SELECTION

For most applications a Level 4 finish, as detailed in AS 2589:2007 will apply.

Level 4 is most commonly used in commercial and residential work, where the finishes are satin, flat or low sheen paint systems and the lighting is non-critical.

FIRE RESISTANCE

Plasterboard is naturally fire resistant and is classified as non-combustible according to the Building Code of Australia (BCA) Section C1.12.

DIMENSIONAL STABILITY

Plasterboard is dimensionally stable when compared to other building materials. Two measures of dimensional stability are:

- ▶ Thermal coefficient of linear expansion
(α) = $16.7 \times 10^{-6}/^{\circ}\text{C}$, measured unrestrained over the temperature range of 3°C - 32°C
- ▶ Hygrometric coefficient of expansion
 $6.5 \times 10^{-6}/\% \text{RH}$, measured unrestrained over the Relative Humidity (RH) range of 10% - 90%

HANDLING AND STORAGE

Plasterboard should be stacked flat, up off the ground and supported on level, equally spaced (max 600mm) gluts.

If there is no option but to stack vertically, ensure plasterboard is secured to prevent falling.

They should be stacked preferably against structural brickwork or on internal framed walls which have an intersecting wall at 90 degrees, whereby the load is supported by the intersecting wall.

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

Plasterboard should be delivered to site as soon as practical prior to installation to reduce the risk of damage.

As per AS/NZ2588 – The area to be lined 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.

GTEK™ SHEET SIZES AND WEIGHTS – TABLE 1

PRODUCT AND THICKNESS (mm)	WEIGHT (kg/m ²)	WIDTH (mm)	LENGTH (mm)							
			2400	2700	3000	3600	4200	4800	5400	6000
GTEK™ Ceiling 10mm	6.5	1200	✓	✓	✓	✓	✓	✓	✓	✓
		1350	✓		✓	✓	✓	✓		✓
GTEK™ Wall 13mm	8.6	1200	✓	✓	✓	✓	✓	✓		✓
		1350			✓	✓	✓	✓		
GTEK™ Wet Area 10mm	7.2	1200	✓	✓	✓	✓	✓	✓		
		1350	✓		✓	✓	✓	✓		
GTEK™ Wet Area 13mm	8.8	1200	✓	✓	✓	✓	✓			
		1350			✓	✓	✓			
Cove Cornice 55	0.65	55			✓	✓	✓	✓		
Cove Cornice 75	1	75			✓	✓	✓	✓		
Cove Cornice 90	1.25	90			✓	✓	✓	✓		
Esperance Cornice 75	1	75						✓		

INSTALLATION

BGC Plasterboard recommends that this section should be read in conjunction with the architects' specifications to determine the Level of Finishes.

GTEK™ Ceiling should preferably be fixed with their long edges perpendicular to the windows or light sources, to obviate unwanted light reflections across the joints.

GTEK™ Ceiling may be cut by scoring the face side and snapping back away from the score. Then cut the paper on the second side following the original score line. Neat straight cuts can be made using a straight edge.

GTEK™ Ceiling is suitable for internal ceilings in N1 to N4 wind zones.

MANAGEMENT OF EXPANSION AND CONTRACTION ON INTERNAL CEILINGS

There are two methods for managing the expansion and contraction of internal ceilings:

- ▶ The installation of control joints as per AS/NZ2589
- ▶ An alternative solution can be provided in consultation with a structural engineer.

The tolerance deviation over 1.8m spans along and across ceiling frames shall be as set out in Table 2.

CEILING FRAME ALIGNMENT DEVIATION – TABLE 2

LEVEL 4 FINISH
Deviation across frame
5mm

Maximum spacing of framing members depends on the structural requirements for the building, in accordance with AS1170 and AS4055, however the maximum allowable spacing for studs, joists, furring channels or battens shall be as set out in the Table 3.

POSITION AND NUMBER OF ADHESIVE DAUBS AND SCREW FASTENERS ACROSS SHEET – TABLE 4

SHEET WIDTH (mm)	INTERNAL CEILING	GARAGE CEILING	EXTERIOR CEILING
1200	XOOXOOX or XOXOXOX	XOXOXOX or XXXXX	XOXOXOX or XXXXX
1350	XOOXOOX or XXXXX	XOXOXOX or XXXXX	XOXOXOX or XXXXX

SPACING OF FRAME MEMBER – TABLE 3

PRODUCT AND THICKNESS (mm)	APPLICATION	MAX. SPACING OF FRAMING MEMBER (mm)
GTEK™ Ceiling 10mm	Ceilings	600
GTEK™ Wall 13mm	Ceilings	600
GTEK™ Wet Area 10mm	Ceilings	450
GTEK™ Wet Area 13mm	Ceilings	600

Trimmers are to be used where the main structural members change direction and all openings must be framed.

Ensure that contact surfaces are free from grease, oil, dust or other loose material prior to placing GTEK™ Stud Adhesive daubs (always clean down steel furring before fixing plasterboard sheeting).

MINIMUM NAIL FASTENER LENGTH – TABLE 5

THICKNESS (mm)	SUBSTRATE MATERIAL	
	HARDWOOD	SOFTWOOD
10	2.8mm galvanised nail or 2.8mm x 25mm ring shanked nail	2.8mm x 25mm galvanised nail or 2.8mm x 30mm ring shanked nail
13	2.8mm galvanised nail or 2.8mm x 25mm ring shanked nail	2.8mm x 30mm galvanised nail or 2.8mm x 30mm ring shanked nail

ADHESIVE, SCREWS

Water-based acrylic gypsum plaster adhesives such as GTEK™ Stud Adhesive, which comply with AS2753, are suitable for fixing GTEK™ Ceiling to both metal and timber framing.

The position of daubs of GTEK™ Stud Adhesive 'O' and permanent screw fasteners 'X' should be as set out as shown in Table 4.

MINIMUM SCREW FASTENER LENGTH - TABLE 6

THICKNESS (mm)	SUBSTRATE MATERIAL					
	HARDWOOD		SOFTWOOD		STEEL	
	SCREW LENGTH mm	SCREW GAUGE NO.	SCREW LENGTH mm	SCREW GAUGE NO.	SCREW LENGTH mm	SCREW GAUGE NO.
10	30 needle point	6	30 needle point	6	25 needle point	6
13	30 needle point	6	30 needle point	6	25 needle point	6

Notes:

- 1/ Screws shall comply with AS3566
- 2 / Needle point screws shall be used for steel thickness less than or equal to 0.75 BMT
- 3/ Drill point screws shall be used for steel thickness greater than 0.75 BMT

INTERIOR CEILINGS

GTEK™ Ceiling is suitable for internal applications in N1-N4 wind zones.

GTEK™ Stud Adhesive, 25mm dia. x 15mm high, daubs are positioned in the pattern as shown in Table 4, spaced at maximum of 250mm.

GTEK™ Ceiling is placed at right angles to the ceiling joists, battens or furring channels, and fastened along one recessed edge at each joist, batten or furring channel.

Next, press the sheets firmly against the framing, and fix one screw in the centre of the sheet at each framing member.

Then, fasten off the sheets along the other recessed edge, at each framing member. Fasteners and GTEK™ Stud Adhesive fixing points given in Table 4 shall be evenly spaced.

FIGURE 1 – RECOMMENDED CEILING SHEET APPLICATION (1/3 SPACE METHOD)

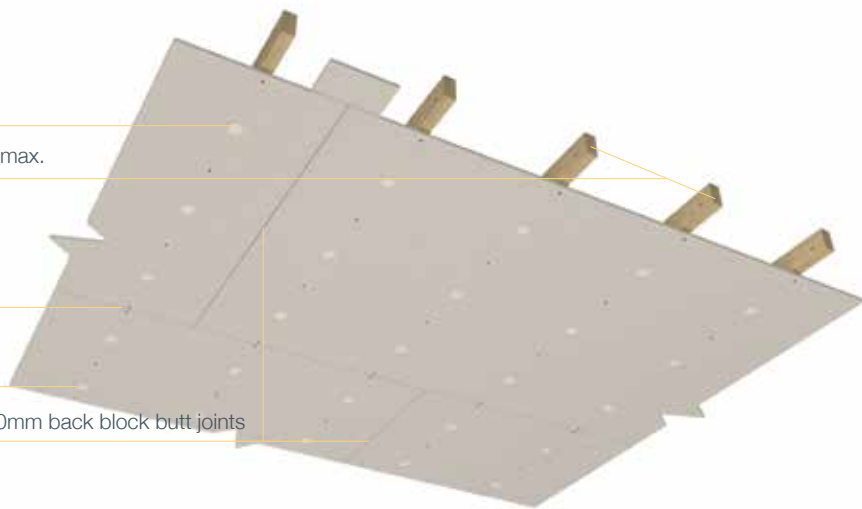
GTEK™ Stud Adhesive daubs

Framing centres 450mm – 600mm max.

Screw both sheet edges

This screw & adhesive pattern to be used throughout

Stagger sheet joints, minimum 1200mm back block butt joints



GARAGE CEILINGS

GTEK™ Ceiling 10mm, GTEK™ Wall 13mm and GTEK™ Wet Area 13mm are suitable for garage ceilings in N1-N2 wind zones.

Garage ceilings are subject to conditions that are more demanding than in any other part of the home. This is the case even when garages are located under the same roof as the rest of the home. Garages have large doors that when open let in rain and strong wind. Garage doors also cause a large amount of constant vibration when in use that can affect board fixing and adhesion. These factors call for a more durable installation to avoid maintenance issues.

Installation requirements for Garage Ceilings:

- ▶ Framing members should be spaced at 450mm maximum centres.
- ▶ Fix the ceiling sheets in accordance with Table 4.
- ▶ Provide framing or trimmers around the perimeter to enable fixings at 450mm spacing.
- ▶ Fix the perimeter sheets using screws at 450mm max spacing.
- ▶ Back block all plasterboard joints.
- ▶ Paint with an exterior paint system to paint manufacturer's recommendations.
- ▶ Plasterboard in garage ceilings is suitable in N1 and N2 wind zones.

EXTERNAL CEILINGS

GTEK™ Plasterboard installed in external ceilings is suitable for N1 and N2 wind zones.

Framing members should be spaced at max 450mm centres. In areas where ceiling joists or roof trusses are spaced at more than 450mm, trimming or suitable ceiling battens should be provided at max. 450mm centres. Metal ceiling battens and furring channels should be installed in accordance with manufacturer's specification.

Run plasterboard sheets at right angles to framing members. Provide a min 6mm gap between edges of the plasterboard sheet and adjacent walls, beams, columns and fascias.

30mm screws should be used for fixing into timber framing. 25mm 'S' or 'D' type screws, as appropriate should be used for fixing into steel framing. External application corrosive resistant screws and protective coated angles should be used within coastal areas.

Back block all joints in ceiling linings as per back blocking specifications.

Paint with an exterior paint system to paint manufacturers' recommendations.

Roof sarking and cross flow ventilations to the ceiling cavity can improve long term performance of external ceilings by reducing the possibility of condensation on top of the ceiling lining.

Metal roofing is more susceptible to condensation build up than roofing tiles; if sarking or foil backed insulation is used under metal roofing ensure installation complies with the BCA and relevant Australian Standards.

INSTALLATION

All perimeters must have appropriate framing/noggings etc. in order to support all sheet edges. Perimeters to be screw fixed only at 450mm centres. The perimeter may be fixed out with timber noggings, metal plasterers angle (Rondo P18) or equivalent.

Plasterboard sheets fixed to exterior ceilings must be fixed in accordance with Table 4. Paper tape must be used in conjunction with setting type base products in the joints. Base and topping to comply with ASTM C475. Back block joints in accordance with AS/NZS 2589.

We have a range of Exterior Base and Topping compounds that are ideal for flushed joints on exterior ceilings.

Fascia boards/perimeter beams should continue at least 100mm below the bottom of the plasterboard ceiling or the perimeter wall/ceiling trim.

Framing centres to be at a maximum of 450mm.

RECOMMENDED GTEK™ PLASTERBOARD MATERIALS

10mm GTEK™ Ceiling
 13mm GTEK™ Wall
 13mm GTEK™ Wet Area

FIGURE 2 – ALFRESCO COFFER DETAIL

Timber roof framing (typical)

Ceiling joist

GTEK™ Ceiling 10mm or,
 GTEK™ Wet Area 13mm or,
 GTEK™ Wall 13mm

GTEK™ Cove Cornice

Bulkhead behind

BGC Durasheet™
 eaves lining

Exterior angle casing bead

230 x 230mm brick pier (typical)



MANAGEMENT OF EXPANSION AND CONTRACTION ON EXTERNAL CEILINGS

There are two methods for managing the expansion and contraction of external ceilings:

- ▶ The installation of control joints as per AS/NZ2589
- ▶ An alternative solution can be provided in consultation with a structural engineer.

BACK BLOCKING FOR BUTT JOINTS

Back blocking is used to reinforce unsupported butt or recessed joints and must be positioned midway between supporting members, in ceilings.

FIGURE 3 – BACK BLOCKING PROCEDURE METHOD A



GTEK™ Ceiling back blocking – min 400mm wide

Bond back block to ceiling sheets with GTEK™ Back Blocking Cement (apply using notched spreader)

Position joint on centreline between ceiling joist offset 50mm max.

Install temporary batten and packer to produce 2mm depression at joint. Leave in place for 24 hours min. after bonding the back block

GTEK™ Ceiling

FIGURE 4



GTEK™ Ceiling

2mm depression at sheet joint. Flush – following recessed joint instructions

GTEK™ Ceiling

FIGURE 5 – BACK BLOCKING PROCEDURE (METHOD B)

Battens at 300mm max. centres

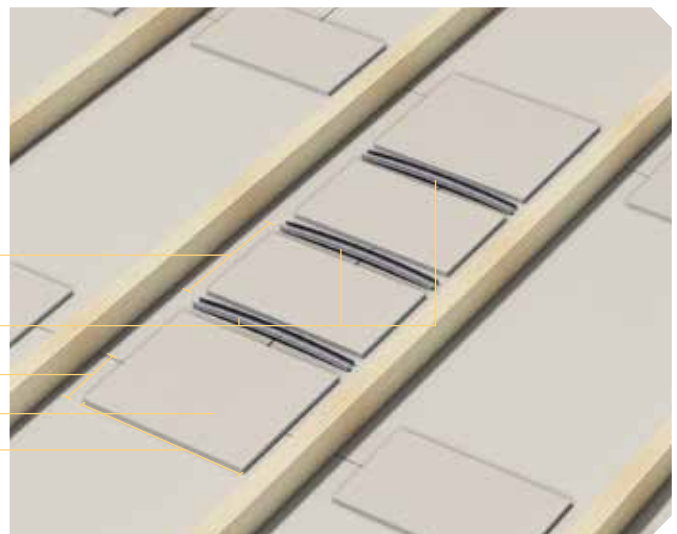
Rondo NoB005 Battens or similar to form recess

100mm min. overlap at recessed joints

Back Blocking

400mm

Note: Install screws to battens carefully. Collated screw guns may not be suitable.



BACK BLOCKING FOR RECESSED EDGE JOINS

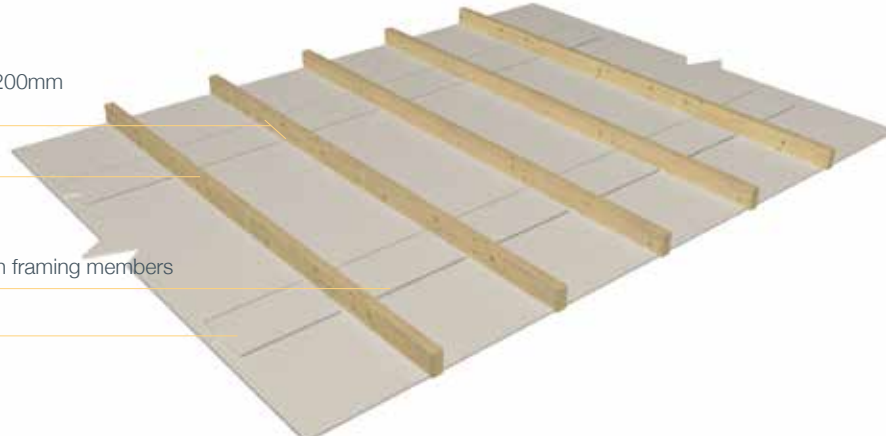
FIGURE 6 – BACK BLOCKING PROCEDURE (METHOD A)

GTEK™ Ceiling back blocking at least 200mm width & centred over recess joint

Framing or battens

Back blocking cut to fit loosely between framing members

Recessed joint



Back blocking must be used in open areas of ceilings (back of recessed joints) with 3 or more joints.

- (a) Cut back blocks at least 200mm wide and long enough to fit between the framing members with a gap not greater than 25mm at each end.
- (b) Apply GTEK™ Back Blocking Cement over the full face of the back block. A notched spreader providing 6mm x 6mm beads at approximately 20mm centres at right angle to the joint.
- (c) Fix the plasterboard to framing members.

- (d) Place back blocks centrally along the full length of the board edge.
- (e) Immediately after the back blocks are in place, fix the next sheet.

Alternatively, ceilings back blocks may be cemented into position from above the ceiling after the sheets have been fixed and before they are flush jointed.

JOINTING INFORMATION FOR GTEK™ CEILING

JOINTING APPLICATION

Paper tape joints produce stronger and more enduring results than those that are set with fibreglass tapes.

BGC Plasterboard recommends the use of paper tapes.

- ▶ Self-adhesive paper tapes should not be used.
- ▶ Where fibreglass tape joints are used, they must be back blocked before the joints are set (in accordance with the instructions set out in Back Blocking).

TAPE AND FIRST COAT

Apply the GTEK™ Base Coat bedding cement to fully fill the recess of the joint.

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

Stop-up all fixing points and apply GTEK™ Base Coat to any damaged areas.

Allow GTEK™ Base Coat to set and dry for at least 1 hour in normal conditions. In damp or humid conditions GTEK™ Base Coat should be allowed to set and dry for 24 hours.

For drying types (such as All Purpose Compounds) allow a minimum of 24 hours between coats.

FIGURE 7 – TAPE FIRST COAT

First coat GTEK™ Base Coat 100mm approx.

1 / Fill recess with GTEK™ Base Coat

2 / Install perforated paper tape over joint centre line

3 / Lightly cover paper tape with GTEK™ Top Coat

FIGURE 8 – SECOND COAT

4 / Second coat GTEK™ Base Coat 180mm approx.

THIRD 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.

Apply a thin final coat of GTEK™ Top Coat over all fasteners and damaged areas.

FIGURE 9 – THIRD COAT

5 / Apply GTEK™ Top Coat 280mm approx.

JOINTING – BUTT JOINTS

Butt or end joints should be flush-jointed and finished with a 3 coat system widening each coat.

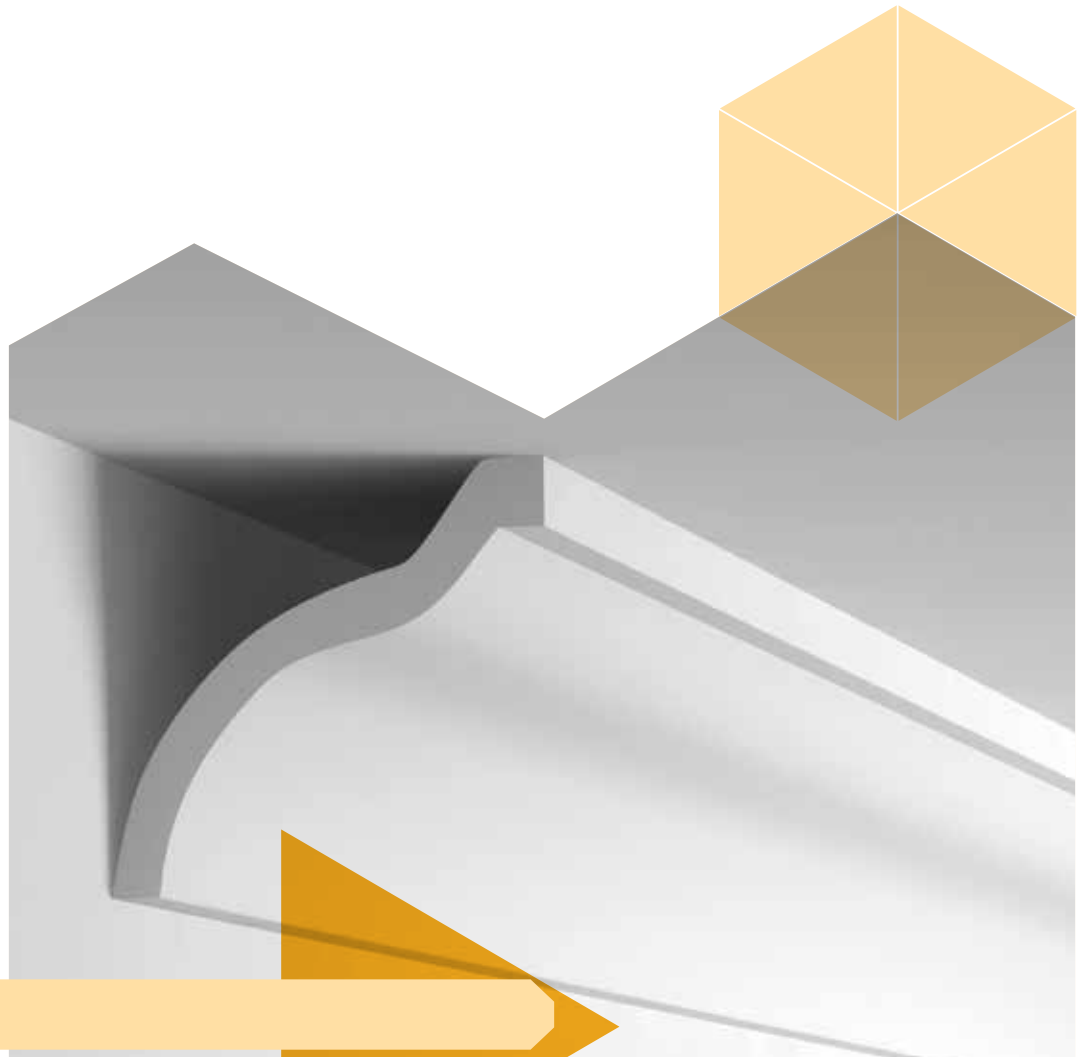
SECOND COAT

Apply a second coat of GTEK™ Base Coat over the joints, making sure to feather out the edges.

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

Allow the second coat to set for a minimum of 1 hour.

FIGURE 10 - BUTT JOINTS



GTEK™ CORNICE

Complementing our GTEK™ ceiling sheets, we offer a range of GTEK™ Cove and Decorative Cornices, adding exciting finishing touches to interior wall and ceiling joints in new builds and renovations.



GTEK™ Cove and Decorative Cornices are available in three profile sizes suited to all applications.

What's good about GTEK™ Cove and Decorative Cornices

- ▶ Designed to improve appearance of junctions at walls and ceilings
- ▶ Easy-on-the-eye designs
- ▶ Quick and simple to install
- ▶ Three cove cornice profile sizes:
 - 55mm – 70mm – 90mm
- ▶ Also GTEK™ Esperance 75mm profile

COVE CORNICE

FIGURE 11
95mm



FIGURE 12
75mm



FIGURE 13
55mm



DECORATIVE CORNICE

FIGURE 14
75mm



GTEK™ Cove Cornice is designed to give a clean continuous line at the junction of walls and ceilings, and can be used with confidence on both plasterboard lining and cement plastered walls alike.

GTEK™ Cove Cornice is made of a plaster core with paper face to complement GTEK™ Wall & Ceiling. GTEK™ Cove Cornice should be fixed using GTEK™ Cornice Cement with few special tools required.

The use of a mitre box and hand saw for cutting internal and external corner mitres is recommended.

DECORATIVE CORNICE SIZES - TABLE 10

DESIGN	SIZE (mm)	LENGTH (mm)
		4800
Esperance	75	✓

COVE CORNICE SIZES - TABLE 9

SIZE (mm)	LENGTH (mm)			
	3000	3600	4200	4800
55	✓	✓	✓	✓
75	✓	✓	✓	✓
90	✓	✓	✓	✓

CORNICE INSTALLATION

Clean down area where cornice is to be applied, remove any excess render or loose material.

Mark a guide line to suite the bottom edge of the cornice (90, 75 or 55 down) and pre-cut lengths as required.

All corner joints, internal and external, are to be mitred.

Where butt joints are unavoidable, ensure both ends are prepared to align accurately.

Apply (butter) a 10mm bead of cornice cement to both long edges and ends of the cornice.

Locate cornice to guide lines and temporarily block as required.

Fill mitres, cleaning off excess cement as you go.

Remove temporary blocking after GTEK™ Cornice Cement has set.

Apply second topping coat to mitres and joints as required.

Note: only ever butter one length at a time and install immediately.

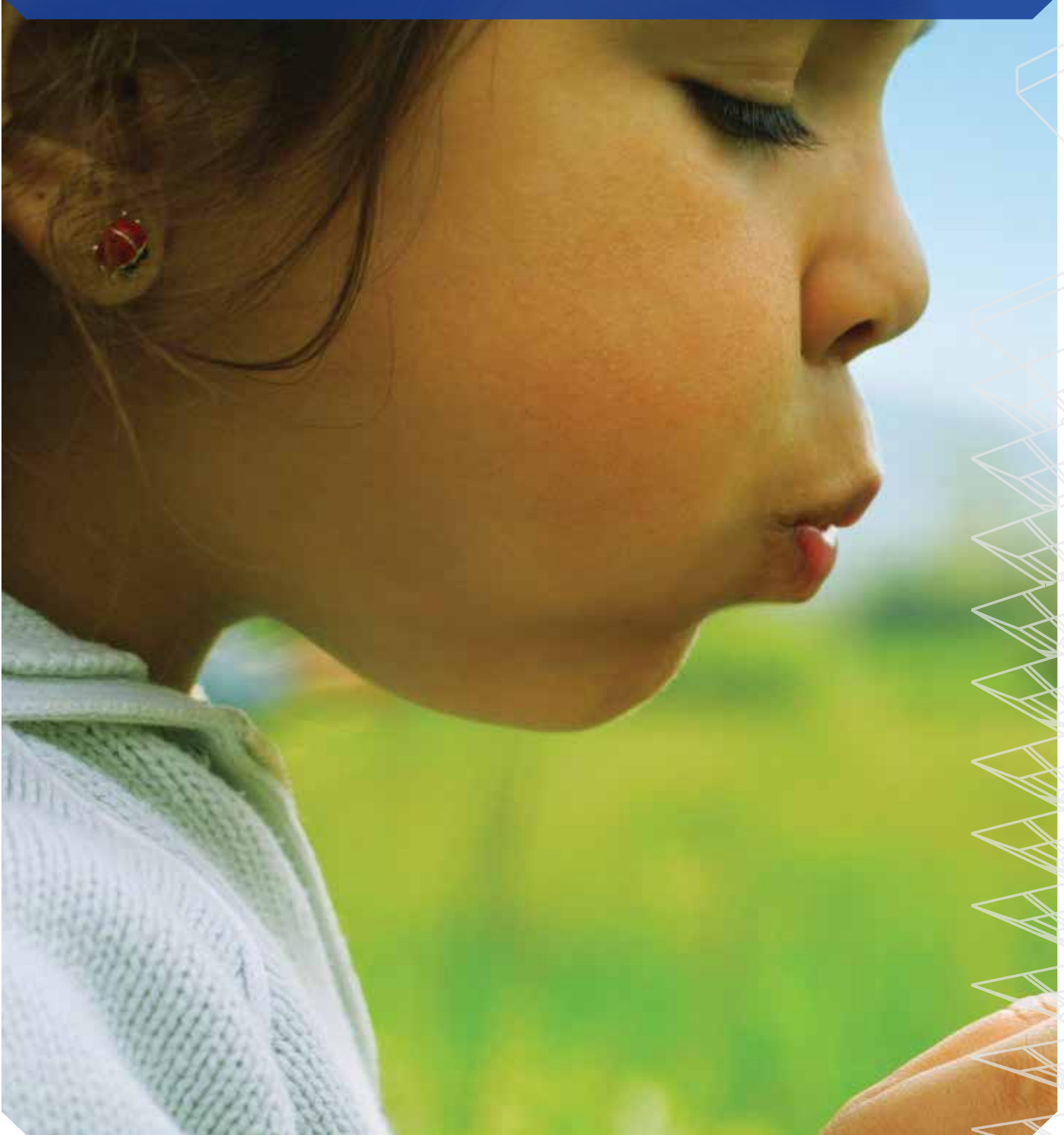
Contact surface may require damping down prior to fixing cornice, depending on drying conditions.

DECORATIVE CORNICE

The Decorative Cornice range from GTEK™ adds the finishing touch to the interior décor of your new home or renovation.

Esperance provides a timeless design suiting many different styles of home. The soft undulation of the curve provides a stylish finish to any room.

At BGC we care about the environment with our range of GECA Certified Plasterboard Products. As part of our commitment to sustainability we are offering our Environmentally Certified GTEK™ 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 your 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.

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.

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

- ▶ **GTEK™ Wall** is an interior wall lining system where cost effectiveness and economy of effort is crucial.
- ▶ **GTEK™ Curve** flexible plasterboard enables the creative execution of curves on interior walls and ceilings.
- ▶ **GTEK™ 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.
- ▶ **GTEK™ 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 market-leading fire, water, sound and impact resistance, together with GECA certification in recognition of high percentages of recycled materials.
- ▶ **GTEK™ 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.

Alternative solution as provided by independent engineer's specification.