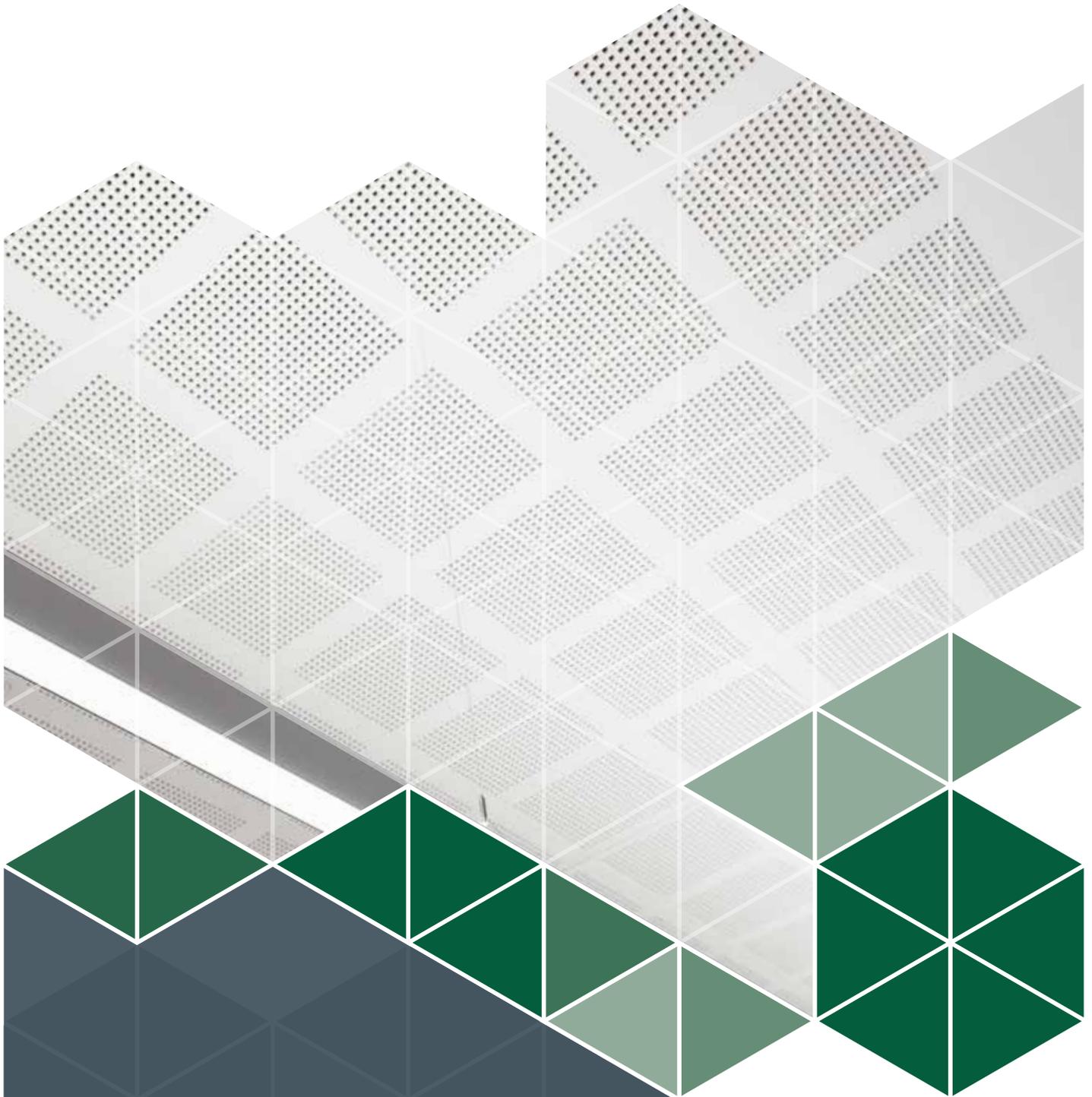




GTEK™ PHONIC



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

GTEK™ PHONIC

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TECHNOLOGY

SUSTAINABILITY

AUSTRALIAN MADE

SERVICE

QUALITY

SYSTEMS

GTEK™ PHONIC

Excellence in design is achieved with a balance of aesthetics and functional performance.



The GTEK™ Phonic perforated plasterboard range allows architects and designers to create beautiful ceilings and walls that achieve high levels of acoustic performance.

The panel perforations together with the acoustic fabric and insulation reduce echo and noise reverberation to create a more comfortable environment for work, leisure and education.

What's good about GTEK™ Phonic

- ▶ High sound absorption
- ▶ Reduces sound reverberation (echo)
- ▶ A selection of perforations to cater for design requirements
- ▶ A smooth perforated plaster surface for decoration
- ▶ Cloth backing prevents dust and insect ingress

PRODUCT INFORMATION

GTEK™ Phonic perforated plasterboard is available in a range of attractive patterns and provides a unique design element for acoustic ceiling and wall projects.

GTEK™ Phonic perforated plasterboard is ideal for installation in nearly every environment where acoustic performance is required, including;

- ▶ Educational facilities
- ▶ Cafeterias
- ▶ Offices and conference centres
- ▶ Healthcare industries
- ▶ Hotels
- ▶ Cultural and community spaces
- ▶ Airports
- ▶ Retail environments
- ▶ Defence
- ▶ Studios

FINISH SELECTION

Selecting the level of finish of the interior lining depends on the function of the space, lighting and the desired decorative surfaces required.

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.

EARLY FIRE HAZARD INDICES

GTEK™ Phonic perforated plasterboard has been tested by the NATA accredited CETEC for fire resistance in accordance with AS 1530.3;

- ▶ Ignitability Index - 0
- ▶ Spread of Flame Index - 0
- ▶ Heat Evolved Index - 0
- ▶ Smoke Developed Index - 1

FIRE HAZARD ASSESSED TO AS/NZS3837:1998

“Method of test for Heat and Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter”

AVERAGE SPECIFIC EXTINCTION AREA 2.0m²/KG

GROUP NUMBER 1

Report Number CV170778, CV170869

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
(a) = $16.7 \times 10^{-6} / ^\circ\text{C}$, measured unrestrained over the temperature range of $3^\circ\text{C} - 32^\circ\text{C}$
- ▶ 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

GTEK™ Phonic perforated 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 GTEK™ Phonic perforated plasterboard are not damaged when handling.

GTEK™ Phonic perforated 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.

Note: As this product range has linear perforations, it will be more prone to breaking/cracking etc. HANDLE WITH CARE!

THE GTEK™ PHONIC RANGE

The GTEK™ Phonic range of plasterboard lining is available in three designs:

- ▶ **6mm Round Full.** Step up the sound absorption performance from Round Half to Round Full, each Round Full sheet includes 4 perforated grids with 6mm perforations at 15mm centres.
- ▶ **6mm Round Half.** Reliable sound absorption performance from a set of 8 perforated grids with 6mm perforations at 18mm centres
- ▶ **12mm Square.** 12mm Square perforations at 25mm centres, arranged as a set of 8 perforated grids on each sheet.

TABLE 1 - SHEET SIZES AND WEIGHTS

THICKNESS (mm)	WEIGHT (kg/m ²)	WIDTH (mm)	LENGTH (mm)
13	8.5	1200	2400

The size and weights in the above table apply to all 3 GTEK™ Phonic perforated profiles.

DESIGN CONSIDERATIONS

All four edges in the 3 GTEK™ Phonic perforated plasterboard range are recessed, which ensures quicker installation as edges can be flushed with paper tape and the standard 3 coat jointing system (see p12) as no butt joints are necessary.

GTEK™ Phonic perforated plasterboard is not recommended for installation in areas subject to greater than 70% relative humidity including indoor swimming pools and bathrooms.

ACOUSTIC PERFORMANCE

What sets GTEK™ Phonic apart?

GTEK™ Phonic perforated plasterboard works differently from other GTEK™ plasterboard linings.

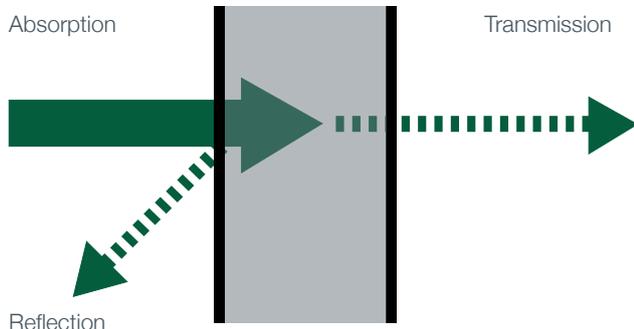
Most products in the GTEK™ plasterboard range offer strong sound insulation performance, meaning they are effective at reducing the amount of sound transferring from one space to another. For example, the GTEK™ plasterboard range includes inter-tenancy wall systems which meet, and exceed BCA VOL 1 requirements for noise transfer between apartments. For more details about the sound insulation performance of the GTEK™ range, refer to our Fire and Acoustic Guide.

The range of GTEK™ Phonic perforated plasterboards is different.

GTEK™ Phonic's speciality is sound absorption performance, meaning it is effective at reducing the amount of sound within a space. For example, busy cafes and restaurants can quickly become noisy, making it hard to hear and be heard. This kind of acoustic problem often arises when the ceiling and walls are acoustically reflective which forces sound back into the room and increases the amount of noise.

The perforated panels used in the range of GTEK™ Phonic products let sound pass through the panels, allowing it to be absorbed rather than being reflected back into the space. In the right conditions, GTEK™ Phonic panels can be installed on walls or ceilings to help reduce noise build-up in a range of spaces, including noisy cafes and bars, school auditoria and public atria.

SOUND INSULATION / SOUND ABSORPTION



HOW DOES IT ALL WORK?

Acoustic perforations

The key to GTEK™ Phonic's sound absorption performance is the perforations.

The perforations allow some of the sound that hits each panel to travel through it, into the cavity behind.

As a rule of thumb, more perforated area means more sound absorption performance.

Changing the perforated area, which is also referred to as the Percentage Open Area, will change the sound absorption performance. For example, adding more perforations to the panel, or increasing the size of each perforation will generally improve the sound absorption performance. The thickness of the panel can also affect its sound absorption performance. The GTEK™ Phonic range is supplied in a standard 13mm thickness.

Behind the scenes

The cavity behind a GTEK™ Phonic panel is important to its performance.

All GTEK™ Phonic panels have an integrated acoustic backing fabric that absorbs some of the sound as it travels through the perforations.

The size of the cavity behind the panels can affect the sound absorption performance.

In general, the larger the cavity, the better the acoustic performance.

Adding infill material to the cavity such as glass wool or polyester insulation can improve the sound absorption performance.

ACOUSTIC RATINGS

Every material can have a sound absorption rating, typically described as a ratio value between 0 and 1.

A sound absorption coefficient of 0 means all the sound arriving at a panel is reflected back into the room. In other words, none of the sound is absorbed.

A sound absorption coefficient of 1 means that all the sound arriving at a panel is absorbed by it.

NRC values and α^w values provide an easy way to classify sound absorption performance, by effectively averaging the sound absorption coefficients across a range of frequencies:

- ▶ NRC values range from 0 to 1
- ▶ α^w values also range from 0 to 1. The α^w values can include additional ratings of sound absorption at different frequencies. For more details of how this works, refer to the Glossary.

GTEK™ performance ratings

NRC and α^w sound absorption ratings in this booklet have been prepared by Marshall Day Acoustics Pty Ltd based on laboratory measurements and acoustic opinions. These ratings are expected to be accurate to within ± 0.1 sound absorption coefficients.

Ratings that have been tested in the laboratory are shown in bold.

Full details of laboratory test results, including frequency based sound absorption coefficients, are presented on page 6.

GTEK™ RECOMMENDATION

Get the balance right.

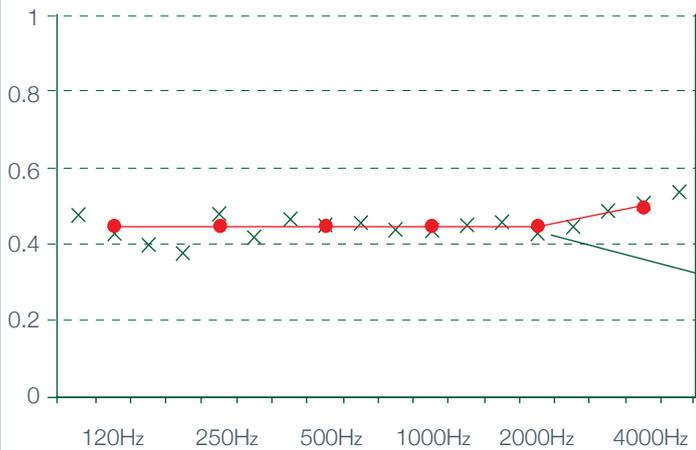
GTEK™ Phonic 6mm Round Full offers robust sound absorption performance. It's not the highest rating absorber, but there's more to this system than meets the eye.

When the 6mm Round Full is installed on a 200 mm deep cavity with 50mm thick 11kg/m³ glasswool, it offers genuinely balanced sound absorption performance across the frequency range.

Octave band sound absorption coefficients from 125 Hz up to 2 kHz are identical at a value of 0.45.

This makes this system ideal for auditoria and other performance and recording spaces where balancing the acoustic response of the room is critical.

SOUND ABSORPTION COEFFICIENTS FOR THE GTEK™ PHONIC 6MM ROUND



The chart plots the laboratory measurements results for CSIRO AC214-07-1. It is provided here as an indication of the type of chart that might be included in the technical brochure.

Octave band sound coefficient

ON-SITE PERFORMANCE

The GTEK™ Phonic system can be tailored to achieve different sound absorption criteria by selecting different perforation styles, cavity insulation and cavity depths.

GTEK™ Phonic panels should be installed as specified. Incorrect installation may affect the on-site sound absorption performance.

It's also important to note that design requirements for **sound insulation** and **sound absorption** are often different and in some cases are conflicting. Achieving good sound insulation together with good sound absorption can require careful system development. We recommend seeking specialist advice in these cases.

6MM ROUND FULL

GTEK™ Phonic 6mm Round Full has 4 blocks of 70 x 30 round perforations in each 2400 x 1200mm sheet. It has been designed for use on ceilings and walls where a moderate acoustic control and simple design are required.

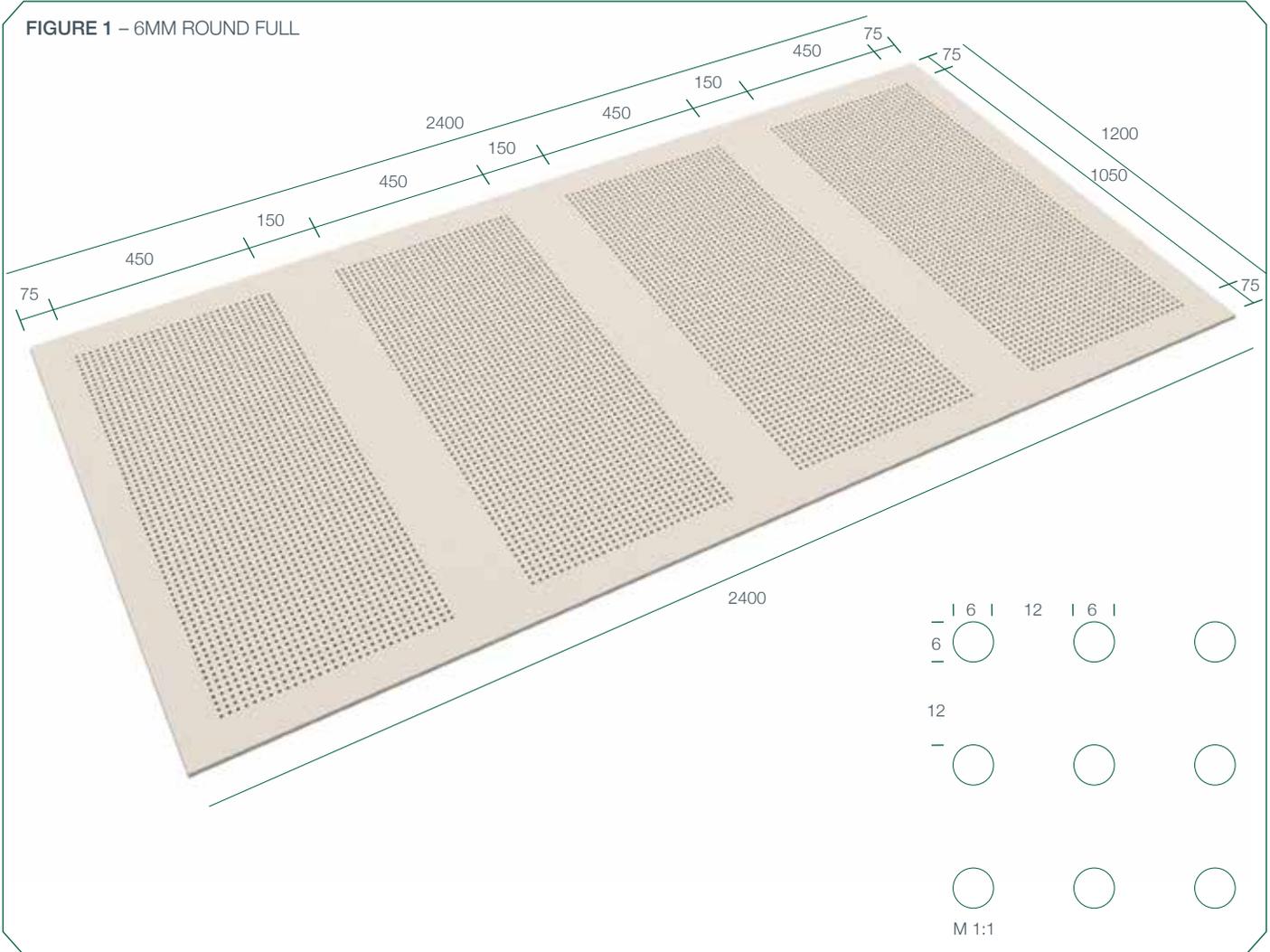
GTEK™ Phonic 6mm Round Full is supplied with a black acoustic fabric backing and is recessed on all 4 sheet edges.

TABLE 2 - 6MM ROUND FULL ACOUSTIC DETAILS

STANDARD 6MM ROUND FULL 8.2% OPEN AREA

PLENUM (AIR CAVITY)	PLENUM INSULATION	α_w	NRC	CLASS
65mm	Empty	0.25(L)	0.35	E
	50mm glasswool (11kg/m ²)	0.35(L)	0.4	D
200mm	Empty	0.4(L)	0.4	D
	50mm glasswool (11kg/m ²)	0.45(L)	0.45	D
400mm	Empty	0.5(L)	0.45	D
	50mm glasswool (11kg/m ²)	0.5(L)	0.45	D

FIGURE 1 – 6MM ROUND FULL



6MM ROUND HALF

GTEK™ Phonic 6mm Round Half has 8 blocks of 28 x 28 round perforations in each 2400 x 1200mm sheet. It has been designed for use on ceilings and walls where a moderate acoustic control and simple design are required.

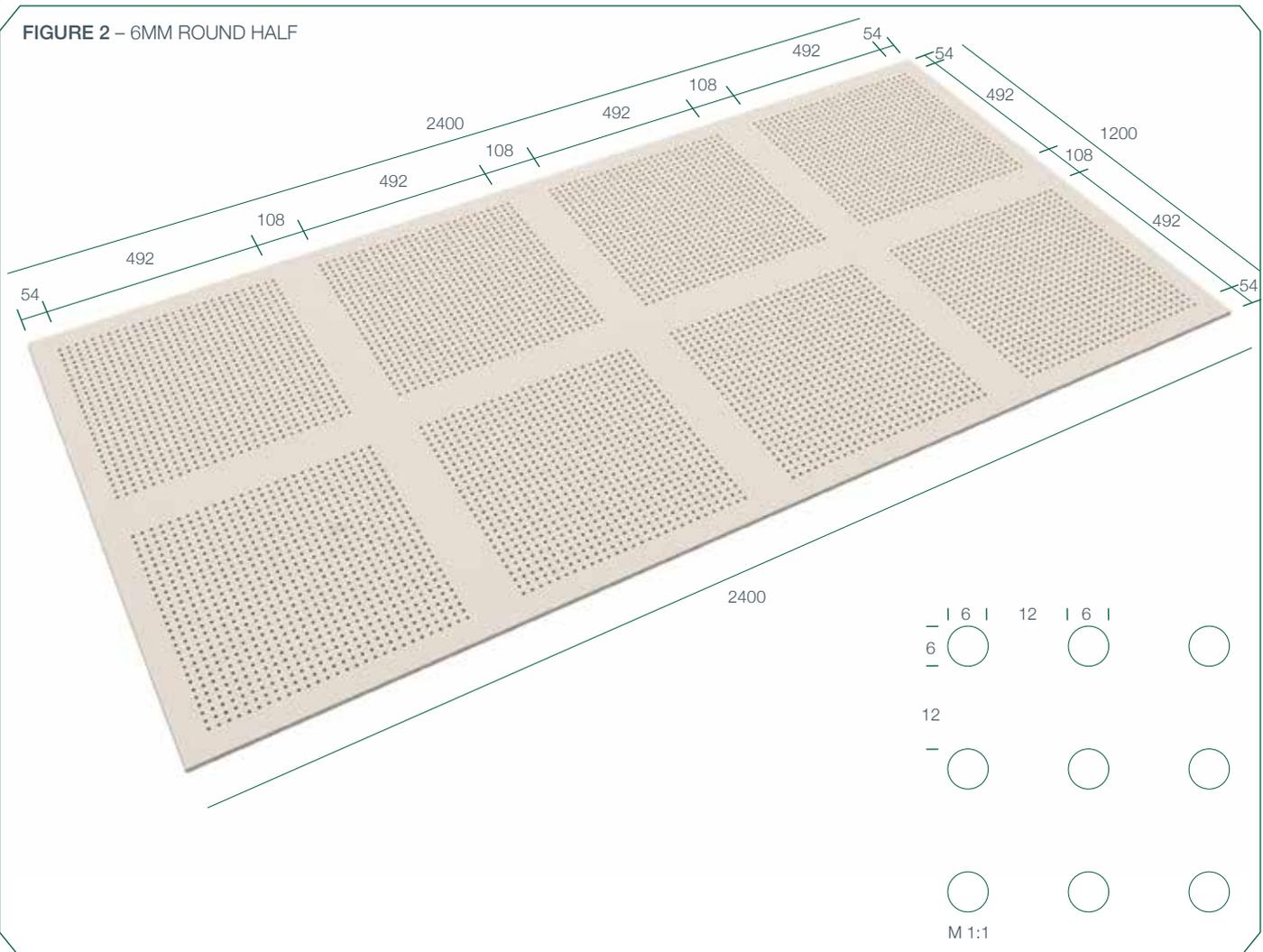
GTEK™ Phonic 6mm Round Half is supplied with a black acoustic fabric backing and is recessed on all 4 sheet edges.

TABLE 3 - 6MM ROUND HALF ACOUSTIC DETAILS

STANDARD 6MM ROUND HALF 6.2% OPEN AREA

PLENUM (AIR CAVITY)	PLENUM INSULATION	α_w	NRC	CLASS
65mm	Empty	0.2(L)	0.3	E
	50mm glasswool (11kg/m ²)	0.3(L)	0.4	D
200mm	Empty	0.3(L)	0.35	D
	50mm glasswool (11kg/m ²)	0.35(L)	0.45	D
400mm	Empty	0.35(L)	0.45	D
	50mm glasswool (11kg/m ²)	0.4(L)	0.55	D

FIGURE 2 - 6MM ROUND HALF



12MM SQUARE HALF

GTEK™ Phonic 12mm Square Half has 8 blocks of 20 x 20 square perforations in each 2400 x 1200mm sheet. It has been designed for use on ceilings and walls where increased acoustic control and greater design appeal is required.

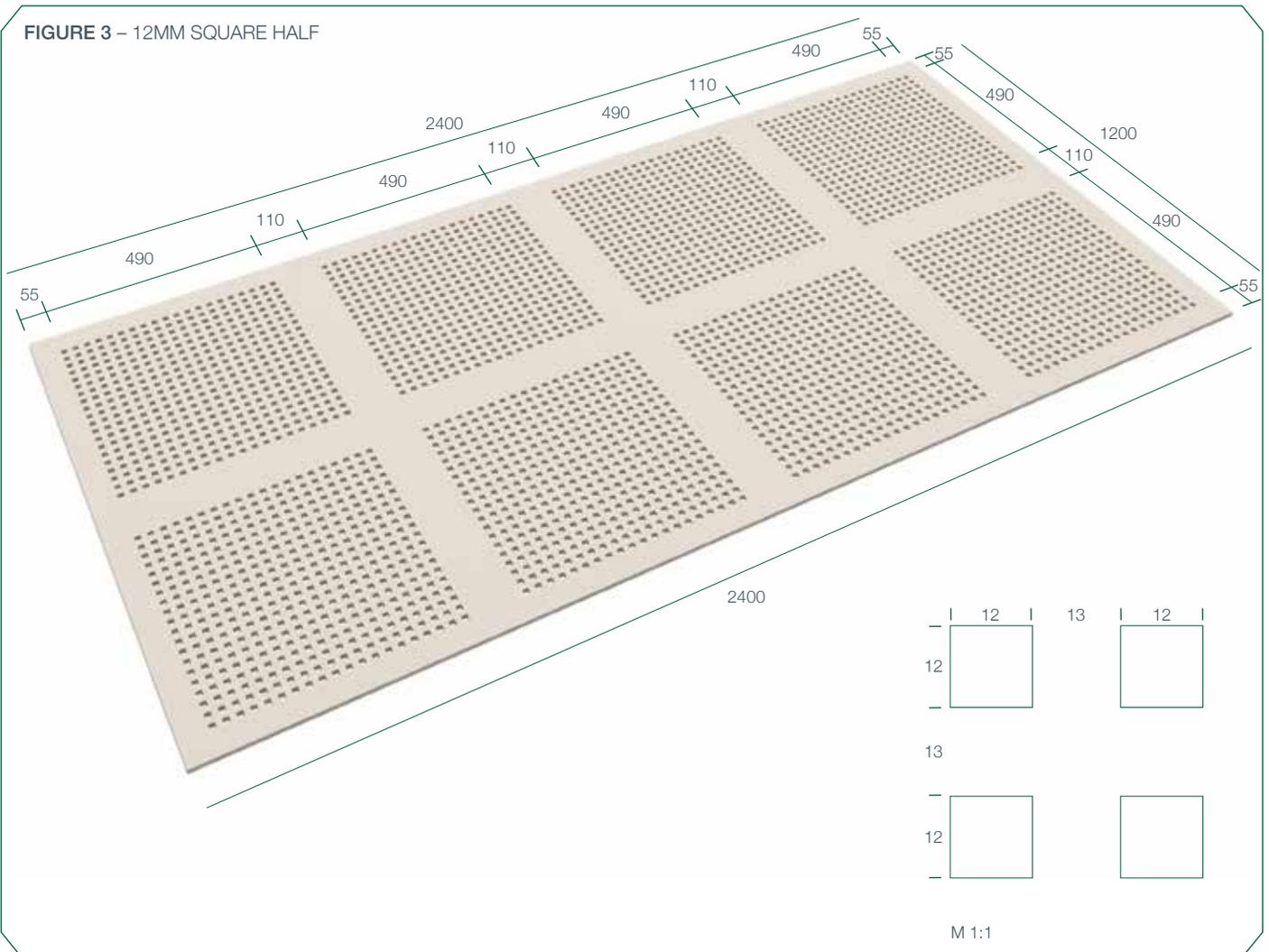
GTEK™ Phonic 12mm Square Half is supplied with a black acoustic fabric backing and is recessed on all 4 sheet edges.

TABLE 4 - 12MM SQUARE HALF ACOUSTIC DETAILS

STANDARD 12MM SQUARE HALF 10% OPEN AREA

PLENUM (AIR CAVITY)	PLENUM INSULATION	α^w	NRC	CLASS
65mm	Empty	0.5(L)	0.5	D
	50mm glasswool (11kg/m ²)	0.6(L)	0.6	C
200mm	Empty	0.6(L)	0.6	C
	50mm glasswool (11kg/m ²)	0.65(L)	0.6	C
400mm	Empty	0.65(L)	0.65	C
	50mm glasswool (11kg/m ²)	0.7(L)	0.65	C

FIGURE 3 - 12MM SQUARE HALF



STEEL FURRING CHANNEL DIRECT FIXED TO STRUCTURAL SUPPORT

GTEK™ Phonic perforated plasterboard may be fixed directly to steel furring that is held by appropriate direct fixing clips attached to a structural support.

Direct fixing clips provide some vertical adjustment to enable accurate levelling of the furring. After levelling, side fix brackets should be permanently fixed in place by two screws.

Furring channels then snap fit into the clips.

The ceiling drop should be limited to 200mm maximum with these attachment systems.

Install brackets to ensure there is a clearance between joist and furring of 10mm minimum.

CONCEALED GRID CEILING SUSPENSION SYSTEM

GTEK™ Phonic perforated plasterboard may be fixed directly to steel furring as part of a concealed grid suspended ceiling frame.

These systems are NON-TRAFFICABLE and are not designed to resist the weight of foot traffic.

Where access to the ceiling area is required, install a Rondo Walkabout Ceiling System.

Suspended Ceiling Systems comprise suspension brackets fixed to the supporting structure, suspension rods, suspension clips, top cross rails, and a locking key for coupling to the furring channel.

Where Top Cross Rails are not continuous, they must be joined as shown in the suspended ceiling components details. Joins must be aligned with hanging points.

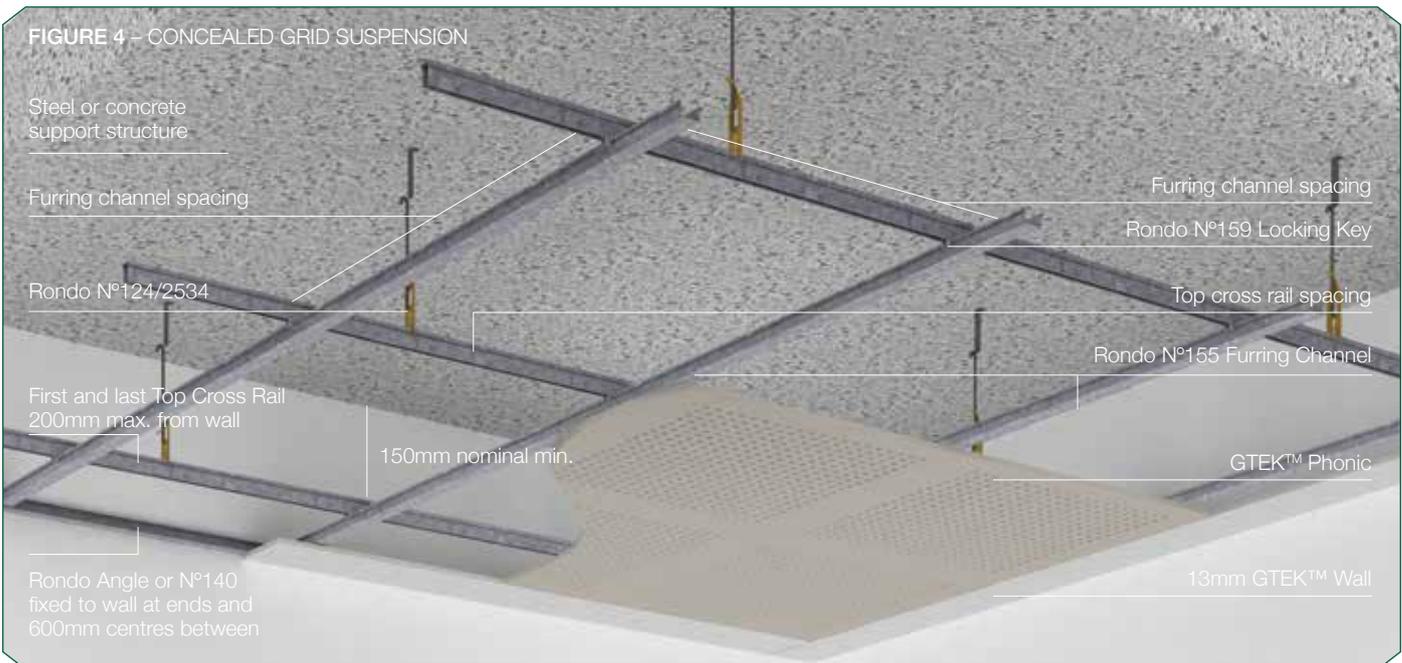
TABLE 5 - SPACINGS OF FURRING CHANNEL

450MM	600MM
MAXIMUM PERMISSIBLE FURRING CHANNEL SPAN	
450MM	600MM
MAXIMUM TOP CROSS RAIL SPAN	
1200MM	

INSTALLATION OVERVIEW

- GTEK™ Phonic perforated plasterboard must be installed with the long edge of the boards at right angles to the furring channels.
- Screw fix only boards, in accordance with this guide.
- Boards should be butted hard against each other and aligned appropriately.
- Allow for a border using GTEK™ Wall 13mm (when required).
- Tape and set all joints with Paper Tape and standard 3 coat GTEK™ compound system.
- Cover all screw heads.
- Sand joints and screw heads.
- Paint as required.

FIGURE 4 – CONCEALED GRID SUSPENSION



BOARD LAYOUT & INSTALLATION

GTEK™ Phonic perforated plasterboard must be installed with the long edges at right angles to the furring channels and ends of boards must be supported by furring channels.

Mount the first board in the centre of the room. Use an alignment line or preferably a fixed edge guide to ensure the board is properly aligned before screw fixing into place.

Boards should be fastened into place using 6g x 25mm bugle head needle point screws at 15mm min. from board ends and 50mm minimum from the long edges. Screws are to be placed at 200mm max. centres at board ends and 300mm max. centres in the field of the board.

Always fasten the short edges of the board first, then the long edges and body.

Ensure boards are level and in full contact with the furring channel before screw fixing.

Work outwards from the centre of the room in a star pattern when mounting subsequent boards, making sure they are all laid in the same direction.

FIGURE 5 – BOARD FIXING LOCATIONS



FIGURE 6 – BOARD INSTALLATION ORDER



JOINTING OF RECESSED JOINTS

All GTEK™ Phonic perforated plasterboard edges are recessed on all 4 edges for flush joint finishing.

TAPE COAT

- ▶ Fill recess in GTEK™ Phonic perforated plasterboard evenly and fully with compound using a broad knife.
- ▶ Bed in paper tape centrally over the joint and cover lightly with compound.
- ▶ Cover all fastener heads and fill any surface damage with compound. Compounds must not interfere with perforations.
- ▶ Allow setting-type compounds (GTEK™ Base Coat) to set completely, and drying type compounds to harden for 24 hours before proceeding.

SECOND COAT

- ▶ Apply a second coat, slightly wider and finishing slightly above the board surface, and feather joint edges.
- ▶ Cover fastener heads with a second coat of compound, laid in a different direction. Compounds must not interfere with perforations.
- ▶ Allow setting-type compounds (GTEK™ Base Coat) to set completely, and drying type compounds to harden for 24 hours before proceeding.

FINISH COAT

- ▶ Apply a thin finish coat of topping compound centrally over the previous coat, slightly wider than previous coat, ensuring that the compounds never interfere with any perforations in the board. Feather the edges of the compound with the trowel.
- ▶ Cover previously stopped fastener heads with a third coat of compound, laid in a different direction, extending beyond the previous coat. Ensure that the edges of the compound are neatly feathered and that there are no trowel edge marks left in the final stopping. Ensure that the compounds never interfere with any perforations in the board.
- ▶ Allow the finish coat of compound to dry for at least 24 hours before proceeding.

SANDING

- ▶ Sand smooth with 180 grit paper or cloth, or with 220 grit sanding mesh. Avoid any heavy pressure that might scuff the linerboard.
- ▶ **Caution: If previous coats of drying type compounds are not thoroughly dry before application of subsequent coats, imperfections can result from delayed shrinkage of the compound**

PAINTING

AS/NZS2311 requires that a sealer plus two coats of water-based paint must be applied as a minimum. Such a system will provide a surface with minimal difference in texture and porosity.

Finishing of GTEK™ Phonic perforated plasterboard is to be done with a short nap roller to avoid excessive paint entering the perforations.

Spray painting is NOT permitted as paint will impair the acoustic backing fabric thus degrading the acoustic properties.

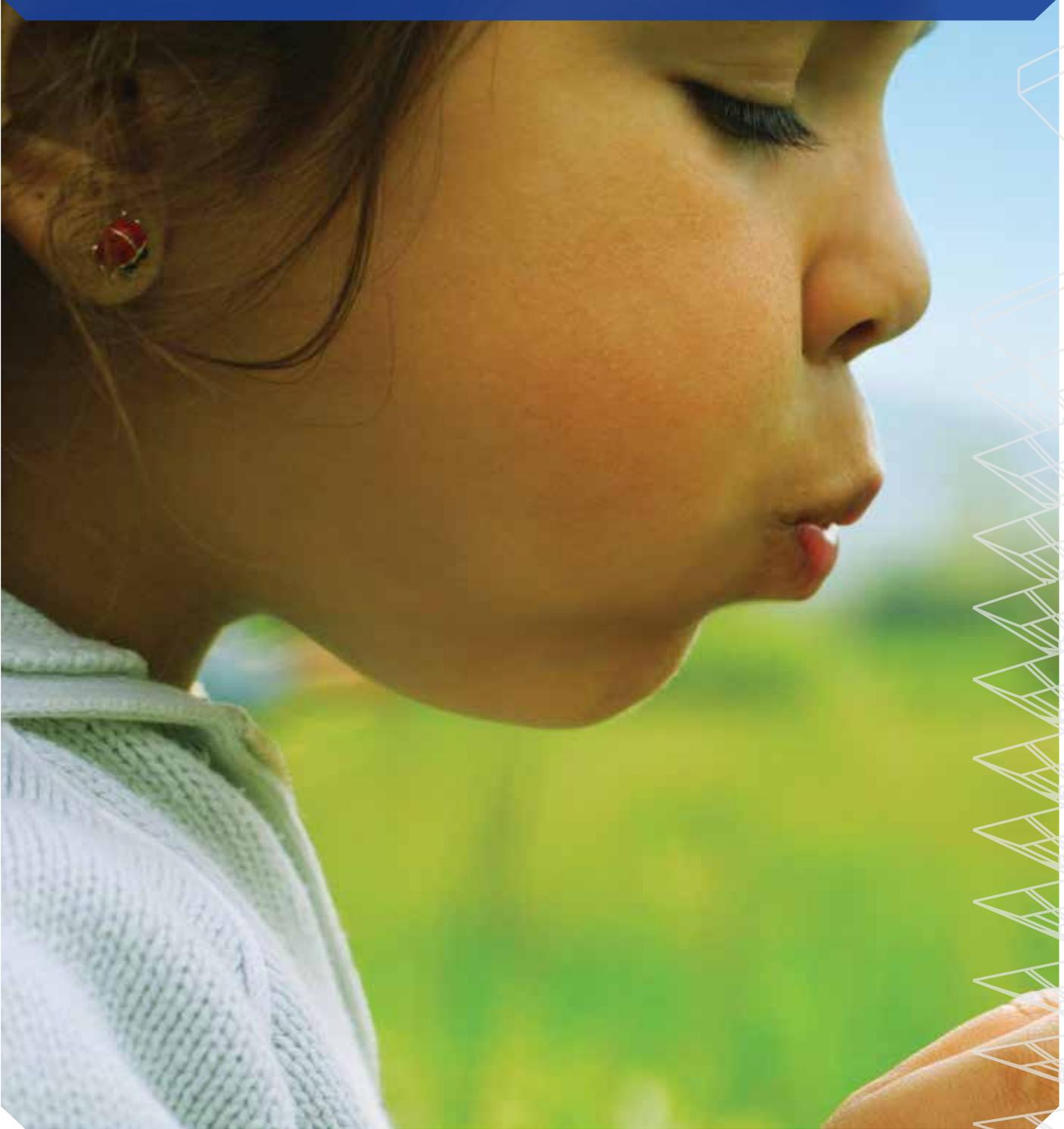
FIGURE 7 – BOARD JOINTING



NOTES

Handwriting practice area with horizontal dashed lines.

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 GTEK™ range at no extra cost to you. So now you save money whilst we save the environment together.



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 that aims to provide consumers with the knowledge that the product they are purchasing has met certain environmental performance standards that 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
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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



Quality
ISO 9001
SAI GLOBAL



GECA
CERTIFIED

GTEK™ PRODUCT RANGE

- ▶ **GTEK™ Wall** is an interior wall lining system where cost effectiveness and economy of effort are 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™ Cornice** adds exciting finishing touches to interior wall and ceiling joints in new builds and renovations.
- ▶ **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 wet areas such 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™ Protect System** is one of Australia's newest separating wall systems providing design flexibility, simple construction and outstanding acoustic performance.
- ▶ **GTEK™ Phonic** is a perforated plasterboard designed to create beautiful ceilings and walls and achieve high levels of acoustic performance.

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.