

Get the right information when you need it.

- The new GIB® System Selector.
- How about adding curving to your wall and ceilings.
- GIB Weatherline® fire system options for external walls.

Prioritising GIB® plasterboard waste minimisation and recycling

SUSTAINABILITY

by Gordon White
Market Manager –
Residential



The New Zealand building industry is becoming increasingly aware of the importance of reducing the growing level of construction waste ending up in landfill. Winstone Wallboards is actively exploring innovative ways to reduce the level of plasterboard waste being generated.

Working closely with customers, local councils and waste specialists, Winstone Wallboards is exploring a range of long term waste minimisation solutions which is especially relevant given that recent data collected from New Zealand construction sites indicates that timber and plasterboard offcuts contribute the largest percentage of construction waste currently entering New Zealand landfill sites.

Our approach is to firstly look at ways to minimise plasterboard waste created in the first place. We are actively working to develop practical industry tools that help customers to do this.

However, we also need to recognise the need to work with the wider construction industry to find viable solutions to dispose of plasterboard offcuts generated during the interior lining process. That's why we are also helping to facilitate plasterboard recycling options wherever practical.

Nelson, Christchurch and Queenstown Offcut Recycling Services Now Available

In addition to the Auckland service, plasterboard onsite waste collection and recycling services are now also available in Nelson, Christchurch and Queenstown areas.

Customers working on new build projects can have 'plasterboard only' bins delivered to site during the interior

lining stage. The bins when full are then uplifted and sent to a local recycler where the gypsum core is extracted and reused in a range of horticultural and agricultural products.

This is great news for trade customers operating in these areas who have been seeking onsite plasterboard recycling service options. It's also very useful for Homestar and Greenstar projects as it can help customers claim points for waste diversion under these schemes.

With onsite collection and recycling services now operating in Auckland, Nelson, Christchurch and Queenstown, over half of the New Zealand plasterboard market has some form of offcut recycling options available.

While this is good progress, Winstone Wallboards recognises the need to continue working with the industry, waste providers and regional councils to further expand recycling capability into other regions where it is viable to do so.

Auckland Area

Green Gorilla
greengorilla.co.nz / phone 09 636 2244

Nelson Area

Waste Management
wastemanagement.co.nz
Zoie Bryce -
ZBryce@wastemanagement.co.nz

Christchurch Area

Waste Management
wastemanagement.co.nz
Margot Hall -
MHall@wastemanagement.co.nz

Queenstown Area

All Waste
allwaste.co.nz / phone 0800 255 927

Waste Management
wastemanagement.co.nz
JDana Tosh -
JMcEvoy@wastemanagement.co.nz

Read further on page 2

A CHALLENGING MARKET

FOREWORD

by David Thomas
General Manager

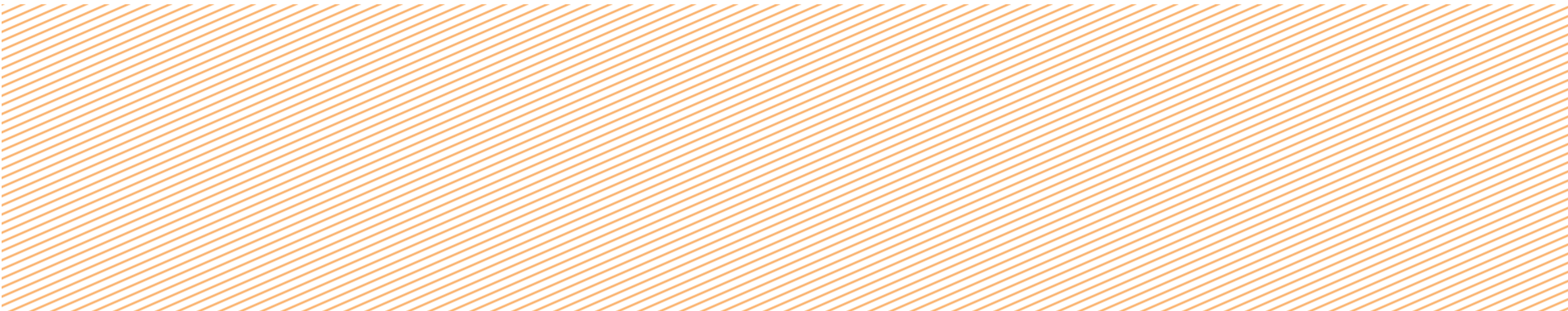


In October last year I said to you “We are very confident that we have sufficient manufacturing capacity to meet our forecasted demand, and being mindful of potential global supply

chain and New Zealand port issues, we are looking to improve our stock position of imported materials”. As many of you are experiencing, our demand is up on last year’s forecasts and I am pleased to say that we have been able, in general, to meet that demand. The exception of course is in the compounds area where the availability of raw materials has severely impacted our ability to maintain our normal service standards for part of the product range. Measures to improve our stocks of imports have met with mixed success and, despite our best efforts, it seems most likely that global supply

chain capacity, particularly in terms of services to New Zealand, will lead to little, if any, improvement in the position going forward. The construction of the new manufacturing/distribution facility in Tauriko began in earnest in January this year and we are on track to begin commissioning in the first quarter of FY 2023. Obviously we are very excited by the benefits this project will bring to Winstone Wallboards, the built environment, and New Zealand at large, with an improvement in our carbon emissions footprint, an ability to recycle water and plasterboard waste, and an

assured local board manufacturing capability to meet the expected increase in demand. At the same time Winstone Wallboards will continue to be focussed on meeting today’s customers’ needs, with special attention to the quality and suitability of our products and systems, the provision of training and advisory services, and the execution of our delivery promises. This edition of GIB® News carries much more commentary on such matters, including steps we are taking in the sustainability area. I do hope you enjoy your read.



Continued from page 1

Other Regions

Winstone Wallboards is currently working with local waste diversion providers to expand plasterboard waste recycling options.

To learn more about plasterboard offcut services, visit the GIB® website gib.co.nz/sustainability

Tauranga GIB® Plasterboard Manufacturing Plant 2023

Winstone Wallboards recycling capabilities will also receive a further boost in 2023, with the opening of the new GIB® Plasterboard Manufacturing and Distribution Facility in Tauriko, Tauranga.

The new plant will include extensive recycling capabilities for both water and

plasterboard waste, including the ability to accept plasterboard offcuts back into the new plasterboard manufacturing process. Designed with sustainability front and centre, the facility is also set to reduce carbon emissions by up to 10%.

In addition to the positive environmental impact the new plant also will offer local employment benefits with more than 300 workers involved on site during the construction phase, and the creation of

around 100 permanent jobs in the region once the plant opens. To learn more about the new Tauranga manufacturing plant visit gib.co.nz/gib-news/new-tauranga-facility



CRUSADERS KIDS DAY KNOCKS IT OUT OF THE PARK

EVENTS

by Barbara Tie
Events Coordinator
Christchurch



One hundred of Christchurch’s most enthusiastic rugby fans poured into Rugby Park on March 16, to meet their heroes and pick up a few new ball skills. The 2021 GIB® Crusaders Kids Day saw the St Albans Crusaders headquarters packed out with children itching to meet their favourite players - and they weren’t disappointed! Richie Mo’unga, Sam Whitelock, Sevu Reece, Ethan Blackadder and Quin Strange were out in force, joined on the field by teammates

Bryn Hall, Chay Fihaki, Fergus Burke, Tamaiti Williams and Dallas McLeod. Together the players spent the afternoon teaching the throng of excited kids invaluable rugby skills that will set them up for the coming season. From Rippa Rugby and line out drills, to a tug of war and bouncy castles, there was never a dull moment. Children were split into age groups and parents even got a taste of the action, with the chance to join in on some of the activities. With plenty of food

to keep energy levels high (including hot dogs, chips, pizza, sushi and soft served cones), and several signed Crusaders jerseys up for grabs, it’s little wonder the day was such a huge success. Here’s to another fantastic event run by the GIB® team. We’re already looking forward to the GIB® Crusaders Kids Day 2022!

COHAUS – PROVIDING A COMMUNITY SPIRITED ALTERNATIVE

SYSTEM SPECIFICATION

by Arama Black
Architectural Sales
Manager



A unique housing project in Auckland's Grey Lynn is providing a community-spirited alternative to New Zealand's traditional residential development models.

Cohaus – an owner-driven multi-unit residential build on Surrey Crescent – is the brainchild of two Auckland families determined to do things differently. Disillusioned by New Zealand's existing housing developments, the families pooled their resources to create a co-housing scheme with community at its heart.

Architect, developer, and part-owner Thom Gill believes it's the first project of its kind in the country - and he can't wait to move in.

"We're only aware of two other such schemes that have been built in New Zealand, but none have been multi-storey

walk-ups, or in a central city location," says Thom.

Four years in the pipeline, Cohaus is about to roll out the welcome mats. With 20 affordable and compact units, plenty of communal spaces, and a big-hearted group of like-minded residents, its success could signal a change for the future of residential housing development.

"Essentially all our new housing in New Zealand is provided by private developers in the open market for profit. The market is optimised for, and experienced in, delivering detached 1-2 storey houses and cheap high-density apartments for sale off-the-plan," explains Thom.

"These typologies and associated drivers create housing stock with little

consideration for the creation of shared spaces or communities. By shifting the design and responsibility back onto the eventual residents, we align incentives to create good quality durable housing stock with a clear goal to facilitate community creation and contribute to the local neighbourhood."

Not surprisingly, when it came to choosing building materials for the project, there were some very specific requirements. Materials had to be non-complex, super-durable, as maintenance-free as possible and with a low toxicity and carbon footprint. GIB Weatherline® fit the criteria, while also providing fire and bracing solutions required for a multi-residential development.

"GIB® Systems are comprehensive and cover all potential system requirements.

Technical back-up is very good, site problems can be solved, and the products are known to suppliers and sub-contractors."

Isaac Johnson from LEP Construction installed GIB Weatherline® and was pleased with the results, saying "We started installation in July last year and finished in late August. We've installed this product on a few jobs now. As long as the screws, tapes and sheet set outs are done correctly, it looks good and is easier to install than similar alternatives."

And according to Thom, the support from Winstone Wallboards was the icing on the cake.

Environmental certifications

SUSTAINABILITY

by John Jamison
Technical Manager



In 2018, Winstone Wallboards, published the first Environmental Product Declaration (EPD) for plasterboard in Australasia, accompanied by the Declare Label and Global GreenTag.

Each of these certifications prove in a transparent and third-party verified manner, the good environmental properties of plasterboard.

"A key difference to other certifications is that EPDs quantify the environmental performance of GIB® plasterboard", says Barbara Nebel, Managing Director of thinkstep in Australasia. thinkstep supported GIB® plasterboard in developing Winstone Wallboards EPD and have completed over 700 EPDs globally.

An EPD is like a nutrition label, but instead of calories, it covers carbon footprint, embodied energy and other environmental data. This allows the developer to choose the right product for their build, recognising that what is 'green' in one context may not be green in another.

EPDs are important for green building, particularly in the commercial sector, as they contribute points under Green Star, LEED, BREEAM and other rating tools and quantifies the environmental performance of plasterboard including its carbon footprint.

Declare is offering specifiers, contractors and building users insight into the ingredients used in the manufacture of building products. All ingredients in a product with a content over 0.01% need to be disclosed, and checked against a Red List of harmful compounds.

Global GreenTag distinguishes the products that have been made in the most planet-friendly way possible and contributes maximum points towards Green Star and Homestar projects.



How Does It Work?

Under the Environmental Product Declarations Innovation Challenge within Green Star, a project is eligible for:

- 1 point where 2 different products hold current EPDs, or
- 2 points where 6 or more different products hold current EPDs.

The EPD for GIB® plasterboard meets NZGBC's criteria to qualify as a product-specific EPD and is therefore eligible for the full points. EPDs can also be submitted as an innovation challenge within Homestar, although the developer needs to have this accepted by NZGBC first.

When you're next submitting a tender for a commercial or public building, think about submitting the GIB® plasterboard EPD along with it.

Environmental Certifications Benefits

- Increased customer trust by using third-party verified certifications.
- Certifications provide Green Star/ Homestar and Living Building Challenge evidence for our customers, making our products easier to select.
- Identification of manufacturing improvement opportunities.

Contact details

Development Manager thinkstep (EPDs): info@thinkstep-anz.com

GreenTag: globalgreentag.com

Declare: Fiona Caulfield info@declare.nz

For further information go to gib.co.nz/sustainability

ADNZ
ARCHITECTURAL
BUS TOUR: WHERE
MEMBERS LIVE

EVENTS

by Clara Sumner
Partnership Manager



A sneak peek into the homes of some of Christchurch's most talented designers provided plenty of inspiration for the 35 attendees of this year's ADNZ Canterbury/ Westland architectural bus tour.

Focussing primarily on the Mt Pleasant- Redcliffs area, the March 2021 tour took in seven of the city's most interesting architectural gems, from a 70's treasure originally designed by the late Don Cowie to a home innovatively crafted on a

budget, and a new build with a Homestar 10 rating – a world leading standard for design, construction and efficiency.

For Winstone Wallboards, the tour was a wonderful way to engage with the design community and bond over their shared love of design and architecture, a fantastic day out, and a great opportunity to connect with others in the industry.

At each property, designers provided a briefing of the design of their home and outlined any challenges they faced – from budget, to site, to earthquake rebuild challenges. This inevitably led to insightful discussions around performance, material choice, function and – most importantly – enjoyment.

This year each home was completely different but what was really interesting was that many had an earthquake story to tell. One of the homes was deemed a write-off after the earthquakes but was painstakingly saved by its



Photo: Site Architecture - Clementine Lane Home

architecture-loving owners, while a couple of the others faced the challenge of building family homes on difficult hill sites that really challenged the creative, particularly when working within a defined budget. One of these homeowners first child was born around the time the build started and another home was built on a site demolished due to earthquake damage, abandoned by the previous

owner, creating a beautiful family home designed to accommodate an elderly father. There was lots of diversity!

Organised by architectural designer Faye Pearson-Green, the event is sponsored by ADNZ Principal Partner GIB®, with additional support from Firth and APL. The architectural bus tour is always a calendar highlight.

GET THE RIGHT
INFORMATION WHEN
YOU NEED IT



We know from experience that going the extra mile can make a massive difference to the speed and success of a project.

A recent call to the GIB® Technical Helpline was a perfect case in point. A project team needed some very specific detailing and construction methods for GIB® Fire Rated Systems, and to add to the challenge, they also needed to

repair some multilayer intertenancy walls. Everyone was doing their best, but working independently, which ultimately led to disagreements and reconstruction.

After a failed inspection, several calls and e-mails, we decided the best way forward was to meet with the designers, builders and inspector on-site, to get everyone on the same page.

It worked a treat! Everybody walked away with a greater knowledge of GIB® Shaftwall systems and our GIB® Panelshaft option, and a far better understanding of the WHY behind the WHAT. Not only that, but we were able to help with a comprehensive plan for repairing the damaged IT walls, saving time, and taking away the guess work.

The icing on the cake? When the building inspector came back for a reinspection, they passed with flying colours.

By getting a technical advisor out to site quickly, what could have resulted in big delays was resolved promptly, enabling the project to keep moving forward.

For more information visit gib.co.nz or call the GIB® Helpline 0800 100 442.

EVER WONDERED
HOW TO INSTALL
GIB-COVE®?

PRODUCT

by Cath Montgomery
Product Manager



Well wonder no longer, in three concise videos you can learn all you need to know to correctly handle, store and install GIB-Cove®. Russell Pedersen our Technical Support and Training Manager takes you through it step-by-step in our training bay.

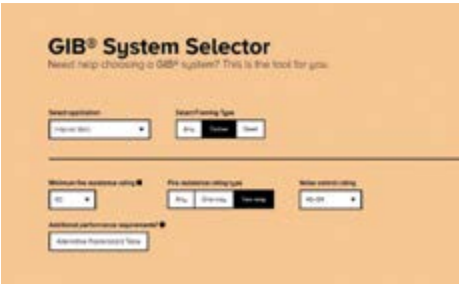
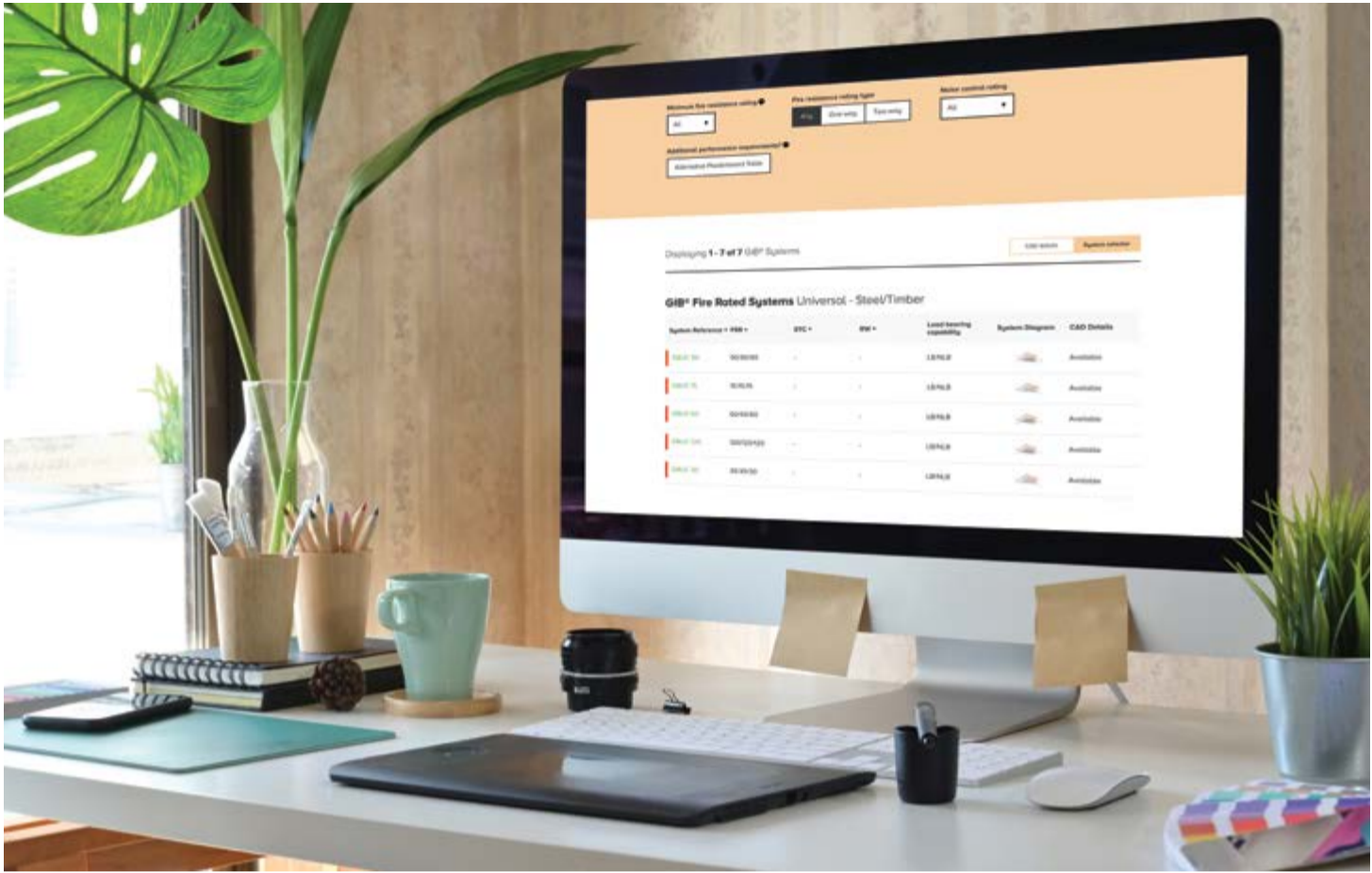


Once installed and painted, your GIB-Cove® enhances interior styling as well as creating a stable system that ties walls and ceilings together which minimises the chance of joints cracking. The larger profiles can also be retro fitted over smaller profiles or traditional timber scotias.

Go to gib.co.nz/site-guide-and-install/installation-videos/ to watch the videos and find out just how easy it is to install GIB-Cove®.

Add value and style into your next project with one of the GIB-Cove® profiles.





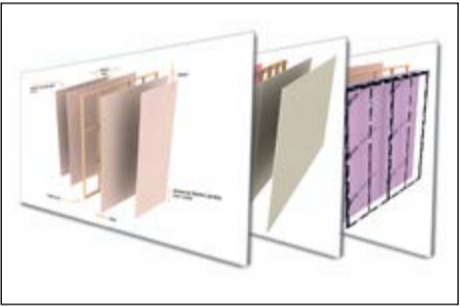
Requirements led search:

Looking for a two-way fire-rated system for a wall with a resistance rating of 60? No problem. Quickly find products that meet the exact requirements you're after, using our interactive filters to refine your results.



Easily compare filtered results:

The filtered results are grouped together and colour coded by the GIB® System books - the listing displays their key performance ratings, making it easier to find the right products at a glance. Hover over the System Diagram to quickly view its configuration or click on a System to see the full details including all the CAD files for that System.



Save your favourites:

Do you need to find multiple files for a single job, or compare between two similar options? Save multiple system results using the 'your favourites' function.

The new GIB® System Selector

- Find what you're looking for, faster.
- Key selection criteria tailored to your way of working.
- Easily compare your filtered results and save your findings in the 'Your Favourites' function.

WEBSITE

by Sarah Joblin
Marketing Coordinator



Need help choosing a GIB® system? This is the new and improved tool for you.

We've improved the search criteria, to help you find the right system for the job. Select the Application Type, then adjust the FRR, Framing Type, Noise Control Rating and more.

Individual systems are now colour coded, for easy identification as to which System Manual they refer to.

We have created an information 'hub' for each individual system, which includes an overview of the system, and any related literature. You'll also be able to quickly access relevant CAD drawings, under the 'CAD Details' tab. Where available, CAD details can be downloaded in bundles, in DWG, RVT or PDF.

You now also have the option to 'add to favourites' for when you wish to refer to the same system again and again.

For further information visit gib.co.nz/gib-system-selector or scan the QR code and watch a short intro video.



GIB HANDIBRAC® SCREW BOLT EMBEDMENT

TECHNICAL

by Richard Hunt
Senior Technical Engineer



GIB® bracing elements requiring special hold-down fixings at panel ends are identified with an 'H', i.e. GSP-H, BL1-H, BLG-H and BLP-H. When load is applied to the top of high-performance elements, the end studs need to be

anchored to stop the panel from 'tipping'. 'H' type bracing systems are often placed near a slab edge and for panel hold-down fixings we recommend the GIB Handibrac® which can be purchased with a 140 mm long BOWMAC blue head screw bolt. Expanding concrete anchors are often not suitable near a slab edge, and a further advantage of the screw bolt is that it can be used on a timber framed platform.

A marginal situation arises when NZS 3604:2011 slab-on-ground construction is used and 'H' type elements are specified on internal walls of single storey buildings, or on non-loadbearing internal ground floor walls of two storey buildings. In these cases, NZS 3604

only calls for a 100 mm slab thickness, and the 140 mm screw bolt embeds 90 mm into the concrete. Whilst our GIB® Technical Helpline has not had any calls from builders having drilled right through, there is a potential risk of the pre-drilled hole penetrating the slab and dampproof membrane.

Single storey NZS 3604 buildings tend to have low to moderate bracing demand. We suggest that 'H' type bracing elements are specified on external walls and GS1-N, GS2-N and GS2-NOM elements internally as these are easier to install, permit the bracing to be distributed over a larger area, and don't require GIB Handibracs®. If higher rated 'H' type elements are required on

some internal walls, then localised slab thickening should be considered and factored into the design.

For the lower of two-storey NZS 3604 buildings, 'H' type elements can be specified on external and loadbearing internal walls with the remainder as outlined for single storey structures.

A final word of warning. Insulated pod-type proprietary concrete slabs often have varying topping thickness and the specification and layout of bracing elements must be carefully considered.

For further information refer to the GIB® Site Guide or call the GIB® Helpline 0800 100 442.

GIB WEATHERLINE®
TECHNICAL
SUPPLEMENT
AVAILABLE ONLINE

LITERATURE

by Gordon White
Market Manager –
Residential



The first port of call when designing with GIB Weatherline® Rigid Air Barrier Systems is the GIB Weatherline® Design and Construction literature available online at the GIB® website but sometimes additional specification material may have been developed which might be useful for a smaller number of projects and not warrant inclusion into the main manual.

Winstone Wallboards keeps this more ‘niche’ material in the GIB Weatherline® technical supplement. So if you can’t

find what your looking for in the GIB Weatherline® literature try the supplement at gib.co.nz/weatherline.

The supplement currently includes:

- New GIB Weatherline® 120min FRR two way fire systems.
- New GIB Weatherline® 30min FRR one way fire systems.
- Additional guidance for protecting framing around external wall openings from façade fire spread.



Download the
GIB Weatherline®
supplement at
gib.co.nz/weatherline or
call the GIB® Helpline on
0800 100 442 for further
information.

UNIQUE
DEVELOPMENT
ACHIEVES GROUND-
BREAKING ‘FIRSTS’

SYSTEM SPECIFICATION

by Dennise Austin
Architectural Sales
Manager



A generous benefactor, some ground-breaking design, and a whole lot of engineered timber has transformed a disused Newton site into much needed accommodation - and a steady income - for Wellington charity, Mary Potter Hospice.

The Mary Potter Apartments (Te Ara o Puanga) is the brainchild of benefactor Mike O’Sullivan who wanted to set the charity up with an enduring form of financial security to offset its reliance on public donations. Designed by Archaus architect Huw Parslow, the 41-apartment development is tucked behind the existing Mary Potter Newtown facility on a small, steep, brown field site and is predominantly constructed of prefabricated engineered timber walls and mass timber floor panels, all manufactured off-site and craned into place.

“A key driver for the Hospice was a respectful development that would not cause undue stress for the patients in their care, the staff they employ, or the wider community,” says Huw.

“The drive to combat noise on-site and create a more environmentally responsible development led the team to use timber as the primary building material and inspired the innovative use of off-site manufactory.”

The project is the only engineered timber framed development of its scale and type in Wellington and it incorporates a host of unique features, including:



- Glulam timber floors (instead of the traditional reinforced concrete with a floating batten and cradle flooring system).
- Inter tenancy walls made of engineered double-framed Laminated Veneer Lumber (LVL) timber studs with structural plywood bracing and GIB® plasterboard linings (for sound and fire ratings).
- External walls made of LVL timber studs, plywood bracing with weathertightness provided by self-adhesive building wrap over the GIB Weatherline® external Rigid Air Barrier system.
- The combination of the GIB® systems and timber construction provides exceptional acoustic ratings for both Impact Sound Insulation Class (IIC 60) and Airborne Sound Transmission Class (STC 65).
- The building is seismically restrained with steel vertical tie rod bracing elements.

Four years in the planning stages, the project saw many different design iterations before the final building was agreed upon. Following a hearing, it was granted a Limited Notified Resource Consent under the Housing Accords and Special Housing Areas Act 2013 (HASHAA). The increase in densification and additional height provided by the HASHAA legislation - though challenging - resulted in the existing early 1900s character properties on Mein Street being retained and renovated, safeguarding the character of the broader Newtown area. Construction kicked off in late 2018.

“The building is a split-level series of interconnected volumes that respond

to the steep contours of the site, and the local Newtown environment. The design incorporates variation in cladding materials to break down the building mass into a responsive and sympathetic residential scale. Providing much needed housing in the Newtown area, the apartments are close to the hospital and ideally suited for worker accommodation.”

GIB Weatherline®
played a
starring role in
construction.

When the alternative fire rated boundary wall system failed to provide adequate protection to the steelwork in the wall system depth, the project team opted to use the GIB Weatherline® system.

“GIB Weatherline® was incorporated as the Rigid Air Barrier for the entire wall envelope of the building, which streamlined the wall types and allowed for the multiple cladding types to align at the substrate without deviation or additional complexity in the façade.”

The project was the first commercial scale residential project to specify GIB Weatherline®, and the first one in Wellington to employ the product in off-site manufactory.

“Off-site manufacture meant greatly reduced on-site noise, with the plywood

bracing, GIB Weatherline®, building wrap and even the windows being installed in the wall panels prior to delivery.”

It also quickened the build and lessened the impact of the development on-site.

Huw says that environmental responsibility was another key component of the brief and played a big part in material selection. Not only is GIB® plasterboard Kiwi-made, environmentally certified, non-toxic and compostable, but timber is a renewable raw material grown here in New Zealand, thereby limiting the emissions from transportation.

“The use of timber in construction is a keyway for the building industry to respond to the drive for climate change, by sequestering carbon from the environment. Carbon in the form of CO2 is captured and stored as trees grow, offsetting the emissions produced through the production of materials such as steel and concrete.”

The unique Te Ara o Puanga development has been extremely well received and is a project that all those involved are deservedly proud of.

Adds Huw, “Te Ara o Puanga is a sensitive and successful development providing much needed accommodation on a disused site in a socially and environmentally responsive fashion, for a worthy client.”

Design and Construction Team

- Designed by Huw Parslow and the team of Archaus Limited (Architects)
- Engineered by Daniel Moroder and the team of PTL Engineers
- Fabricated at the Concision Factory in Christchurch
- Constructed by McKee Fehl Construction under the watchful eye of Ilan Fisher the site manager.

For further information go
to gib.co.nz or call the
GIB® Helpline on 0800 100 442.

GIB WEATHERLINE® FIRE SYSTEM OPTIONS FOR EXTERNAL WALLS

TECHNICAL

by Hans Gerlich
Senior Technical
Engineer



In 2020 the Ministry of Business, Innovation and Employment (MBIE) released updated fire safety guidance for external wall cladding systems.

MBIE Guidance Revision 2: 2020 aims to provide greater clarity around external wall cladding systems fire performance, how to interpret New Zealand Building Code (NZBC) fire performance requirements and whether international alternative fire tests and evaluation methods are suitable for use in New Zealand.

GIB Weatherline® Rigid Air Barrier Systems offer a range of locally tested options to help meet the updated guidelines as well as the requirements of NZBC Clauses C1-C6 – Protection from Fire.

Which GIB Weatherline® Fire Rated System is most suitable for my project?

Selecting the most suitable GIB Weatherline® fire rated system for your project is typically driven by the height of the building and the resulting NZBC fire performance requirements.

Multi-Level Buildings Under 10 Metres:

NZBC Acceptable Solution C/AS2 and the associated MBIE Guidance Revision 2: 2020 does not contain specific requirements for external walls and cladding systems for multi-level buildings under 10 metres in height.

UPDATES TO THE GIB WEATHERLINE® DESIGN AND CONSTRUCTION LITERATURE

LITERATURE

Winstone Wallboards has released an update to GIB Weatherline® Rigid Air Barrier Systems which are included in the new GIB Weatherline® Design and Construction literature March 2021.

The updates include:

Winstone Wallboards recommends specification GWTLE 30 for timber framed external walls unless a fire resistance rating (FRR) above 30 minutes is required.

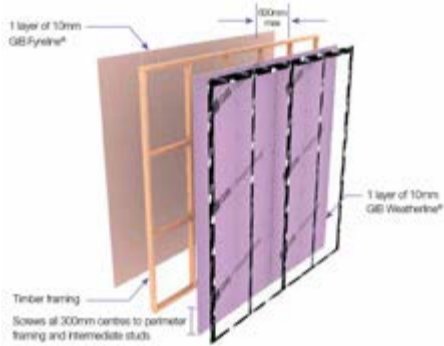


Figure 1: GWTLE 30

Multi-Level Buildings Between 10 and 25 Metres:

NZBC Acceptable Solution C/AS2 and associated MBIE Guidance Revision 2: 2020 suggests combustibility limits on cladding materials, including the rigid air barrier. There are no additional requirements for the supporting framing to be protected or to have an FRR.

GIB Weatherline® has an A1 non-combustible classification and can be used as a cladding substrate on timber or steel framing. Unless a higher FRR is required, Winstone Wallboards recommends a 60 minute FRR using specification GWTLE 60a for timber framed external walls, or GWSE 60 for non-loadbearing steel stud framing, additionally clad with compliant cladding materials.

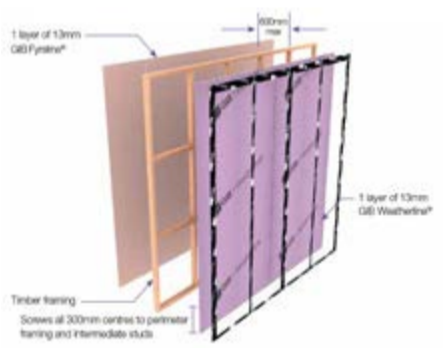


Figure 2: GWTLE 60a

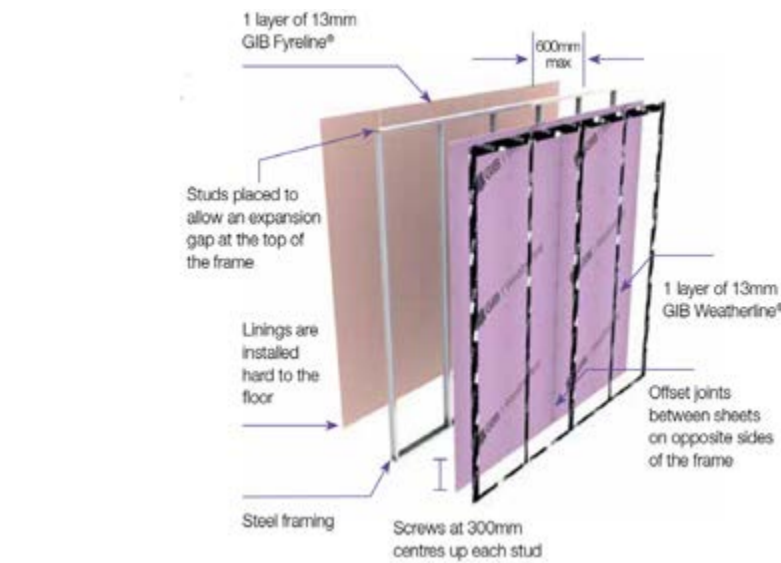


Figure 3: GWSE 60

Multi-Level Buildings Over 25m in Height

NZBC Acceptable Solution C/AS2 and associated MBIE Guidance Revision 2: 2020 suggests combustibility limits on cladding materials, including the rigid air barrier. As one means of compliance, the MBIE Guidance states that timber framing may be used if protected with a robust limited combustibility lining that can be shown to prevent framing char for 30 minutes when exposed to the test conditions of AS 1530.4.

GIB Weatherline® has an A1 non-combustible classification and can be used as a cladding substrate on timber or steel framing. 13mm GIB Weatherline® is a robust non-combustible rigid air barrier, and although some framing char can be expected immediately above the fuel source when tested in accordance with BS 8414, recent research shows that this does not contribute significantly to façade fire spread.

Unless a higher FRR is required, Winstone Wallboards recommends a 60 minute FRR using specification GWTLE 60a for timber framed external walls, or GWSE 60 for non-loadbearing steel stud framing, additionally clad with compliant cladding materials.

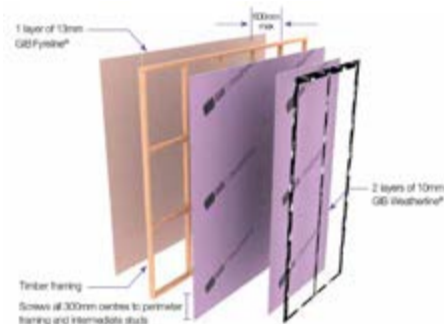


Figure 4: GWTLE 60b

Requirements can vary depending on your locality and Building Control Authority. To achieve compliance with the current MBIE Guidance provisions for prevention of char, specification GWTLE 60b can be used.

Alternatively, compliance can be achieved if the complete external wall is subjected to medium or large-scale fire testing. For tested systems with a 13mm GIB Weatherline® substrate go to gib.co.nz/weatherline

To download the GIB Weatherline® Supplement go to gib.co.nz/weatherline or call the GIB® Helpline 0800 100 442.



Download CAD details from the GIB® System Selector at gib.co.nz/weatherline

Compliance with NZ building code clauses C1-C6 - protection from fire:

- GIB Weatherline® Systems can be used to provide passive fire protection to meet the requirements of NZBC Clauses C1-C6 - Protection from Fire, including options to limit vertical fire spread.

Updated GIB Weatherline® fire systems:

- 6 Fire rated protection systems for columns and beams including 30 and 60 minute FRR options.
- 2 New fire rated soffit details including 30 and 60 minute FRR options.
- Use of insulation now optional in all GIB Weatherline® Fire Rated Systems.

180 Day system exposure prior to cladding:

Once installed, all GIB Weatherline® components can be exposed for up to 180 days prior to the installation of the cladding.

Updated technical guidance including:

- Guidance on the use of water resistive barriers with GIB Weatherline® Systems.
- Guidance on stopping and painting.
- Updated construction details.
- New 2450 x 10mm GIB Weatherline® sheet size, tailored for use in residential projects.



To download the new GIB Weatherline® Design and Construction manual go to gib.co.nz/weatherline

HOW ABOUT ADDING CURVING TO YOUR WALL AND CEILINGS?

TECHNICAL

by Frank Kang
Technical Support and
Development Engineer



Designers often offer curved design options for a well-rounded space. GIB® plasterboard can be curved.

Curvature is dependent on the thickness and whether the board is applied wet or dry.

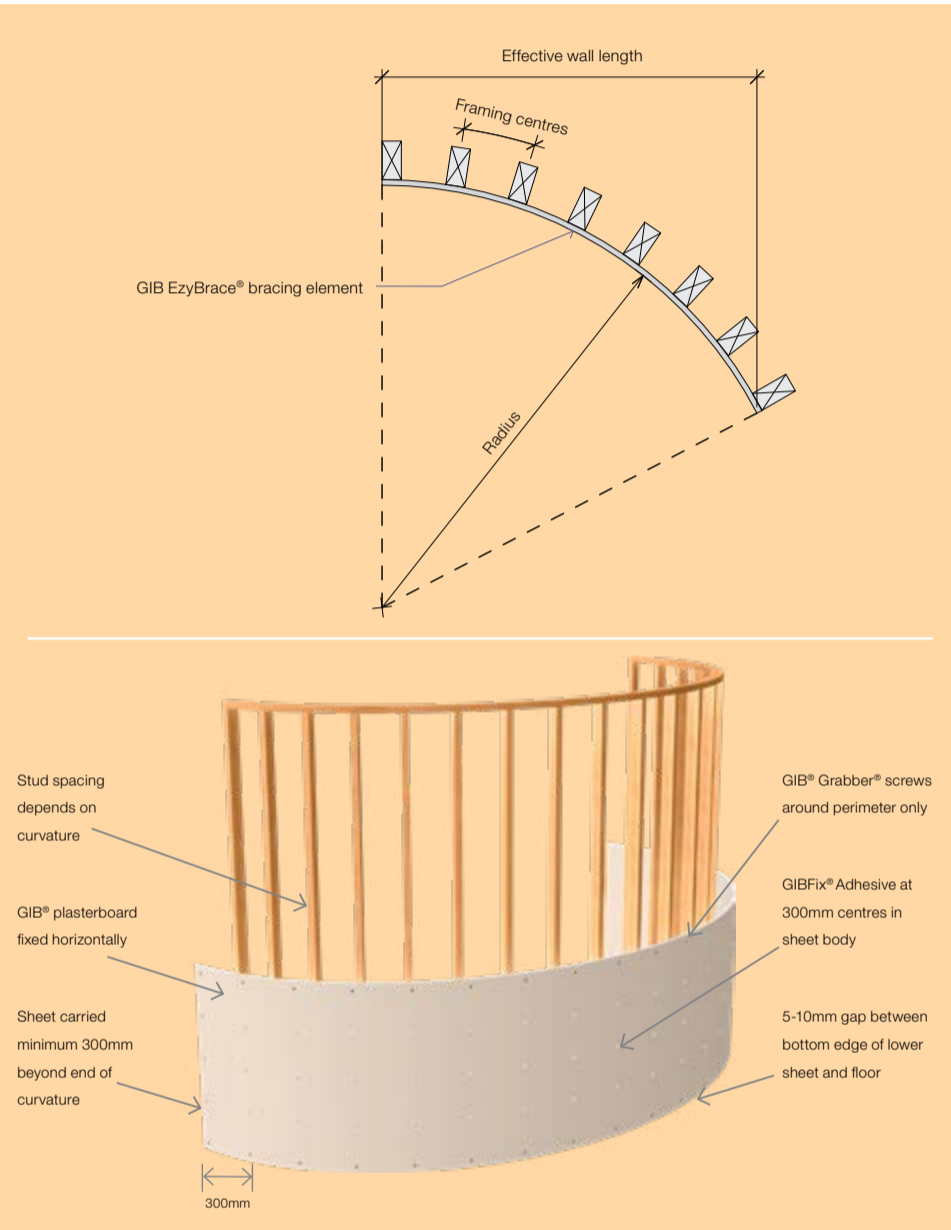
Additional development work by the GIB® Technical Team has updated the minimum bending radii of various product and framing centres, resulting in the tables below. The radii shown are for GIB® Standard and GIB Ultraline® as well as other performance boards such as GIB Fyreline®, GIB Aqualine®, GIB Braceline® GIB Noiseline®, GIB X-Block® and GIB Weatherline®.

It is not recommended to curve thicker and some high density boards such as 16mm and 19mm GIB Fyreline®, GIB Toughline®, GIB Toughline® Aqua and GIB Barrierline® due to the risk of breakage.

Curved walls can be incorporated into performance systems provided the curving is carried out strictly in accordance with the application method in this bulletin. The curving must not weaken or crack the gypsum core. The projection of a curved GIB EzyBrace® bracing element should be used as the effective wall length, as illustrated right.

| Minimum Bending Radii of GIB® Plasterboard | | |
|---|-----------------------|----------------------|
| Board thickness /type | Minimum radius (wet)* | Minimum radius (dry) |
| 10mm GIB® Plaster-board ** | 1000mm | 1200mm |
| 13mm GIB® Plaster-board *** | 1200mm | 1500mm |
| * Not applicable to GIB Weatherline® rigid air barrier and GIB Aqualine® | | |
| ** Includes 10mm GIB Weatherline® rigid air barrier | | |
| *** Includes 13mm GIB Weatherline® rigid air barrier but excludes 13mm GIB Toughline® and GIB Toughline® Aqua | | |

| Framing Centres | |
|------------------------|--|
| Wall or Ceiling Radius | Maximum Stud, Batten or Joist Spacing |
| 900mm – 1200mm | 200mm |
| 1200mm – 3000mm | 300mm |
| 3000mm – 4000mm | 400mm |
| Over 4000mm | 600mm (450mm for 10mm GIB® Plasterboard in ceiling applications) |



Note For performance systems, refer to the relevant specification sheet for the fastener and nog requirements.

Application Method

- Ensure that framing spacings in the table above are correct.
- Sheets must be fixed horizontally to walls.
- If possible, select board length to allow for one unbroken panel to cover the entire curve with enough extra length to extend 300mm beyond each end.
- When curving ‘wet’, apply water with a paint roller to both sides. Approximately 40 mL/m² of water and 10 minutes set time are required.
- When creating an outside curve, begin installation at one end and fasten the sheet as it is wrapped around the curve.
- When creating an inside curve, start fastening the sheet at the centre of the curve and work outwards to the end of the sheet.

The development work found that curving GIB® plasterboard requires patience. Rushing the curving process can result in board breakages. Taking your time and allowing the board to take the curve is the best approach. The typical time taken to successfully fit a board to a curve is 30 - 40 minutes.

Note Lining the inside of the curve will be more difficult than lining the outside. This will require additional labour and the GIB® plasterboard must be curved prior to installation.



Download the GIB® Site Guide supplement at gib.co.nz/site-guide-and-install/ or call the GIB Helpline on 0800 100 442.

PROTECT WET AREAS WITH GIB AQUALINE® - NEW ZEALAND'S NO 1 WET AREA LINING*

LITERATURE

by Jennifer Haraki
Technical Adviser



GIB Aqualine®, gives added strength that easily supports the weight of tiles to provide a solid, stable backing and can now comfortably handle the vast majority of tiles commonly used in New Zealand up to 40kg/m² tile weight.

| Maximum tile weights at 600mm maximum stud centres | |
|--|----------------------|
| 10mm GIB Aqualine® | 26 kg/m ² |
| 13mm GIB Aqualine® | 40 kg/m ² |

With its reinforced water resistant core and easy score and snap installation, GIB Aqualine® is New Zealand's number one choice for internal wet area linings and has been trusted in over 1 million kiwi bathrooms over the last 25 years*.

GIB Aqualine® featured in the GIB® Wet Area Systems literature is a best practice guide for areas where there is intermittent water exposure and splash zones within residential and non-residential buildings.

The updated GIB® Wet Areas Systems technical literature includes:

- Increased fastener space tolerances for GIB Aqualine® for tiling from 100mm to 150mm centres.
- Updated NZ Building Code Clause E3 guidance.
- New CAD details including tiled shower recess details.



Download the GIB® Wet Area Systems literature at gib.co.nz/gib-wet-area-systems/ or call the GIB® Helpline 0800 100 442.

*Based on BRANZ Wet Area Lining Report ER10093 January 2020 and annual M² sold of GIB Aqualine®.



CEILING DIAPHRAGMS
- LET'S START WITH
THE BASICS

TALKING TRADE

by Russell Pedersen
Technical Support
and Training Manager



Here at the GIB® Helpline, we get a tonne of confused calls about ceiling diaphragms.

The first question we always ask is, “is it a GIB® ceiling diaphragm?”. Why? Because under NZS 3604:2011 there can be many different types of ceiling diaphragms. And while some of them have GIB® plasterboard as the lining, they’re not necessarily a GIB® ceiling diaphragm cut and pasted from our GIB® EzyBrace systems literature.

So, let’s start with the basics. Ceiling diaphragms under light and heavy roofs are required to comply with NZS 3604:2011.

Foundationally it helps to understand how bracing lines work – bracing lines are the imaginary lines running along and across the full length or width of a timber framed building plan (they’re usually a maximum of 6m apart). While these lines have no physical significance, they’re needed to control the positioning of bracing elements and allow even distribution of bracing and stiffness to the structure as a whole. By understanding the bracing line concept and not being restricted by exact placement of physical walls, designers have more freedom with room sizes.

Ceiling diaphragm confusion usually stems from the tight rules to comply with the GIB® solution to diaphragm requirements, which makes the full list of requirements essential reading before plans go to Council or the first sheet of plasterboard is cut.

Whilst not a bracing element itself, a GIB® plasterboard ceiling diaphragm is a stiff and strong horizontal component which transfers loads to connected bracing walls/lines exceeding 6m separation (or 7.5m with dragon ties) to a maximum of 12m (if you have a double top plate).

Any 10mm or 13mm GIB® plasterboard can be used for a GIB® ceiling diaphragm and both timber and steel battens can be used for the structure of the diaphragm.

The basic shape of a ceiling diaphragm is square or rectangular (1:1 to 1:2). Protrusions that extend into (inside) the ceiling diaphragm, e.g. cupboards are not allowed. If a protrusion into the diaphragm is necessary, then ceiling should be constructed and lined first then the wall built up underneath. Protrusions that extend out from the diaphragm are fine as long as there is a connection across the jut out, to act as a load path.

If a larger opening is unavoidable it must be in the middle third of the diaphragm*. Where fireplace flues or range hood openings are required to penetrate the diaphragm (outside the middle third), a galvanised metal backing plate can be used as shown in the image on the right.

*For guidance on openings in the middle third, please see page 20 of our GIB EzyBrace® Systems Book.

The length of a ceiling diaphragm (measured between supporting bracing lines, not physical walls) cannot be more than twice its width. The supporting bracing lines need a bracing capacity no less than the greater of: 100 bracing units or 15 bracing units per metre of diaphragm dimension. These supporting walls are measured at right angles to the line being considered. Also note, the walls forming the supporting bracing lines, do not have to be within the area of the ceiling diaphragm itself as the entire line is providing the support (assuming they are connected adequately to create the continuous load path).

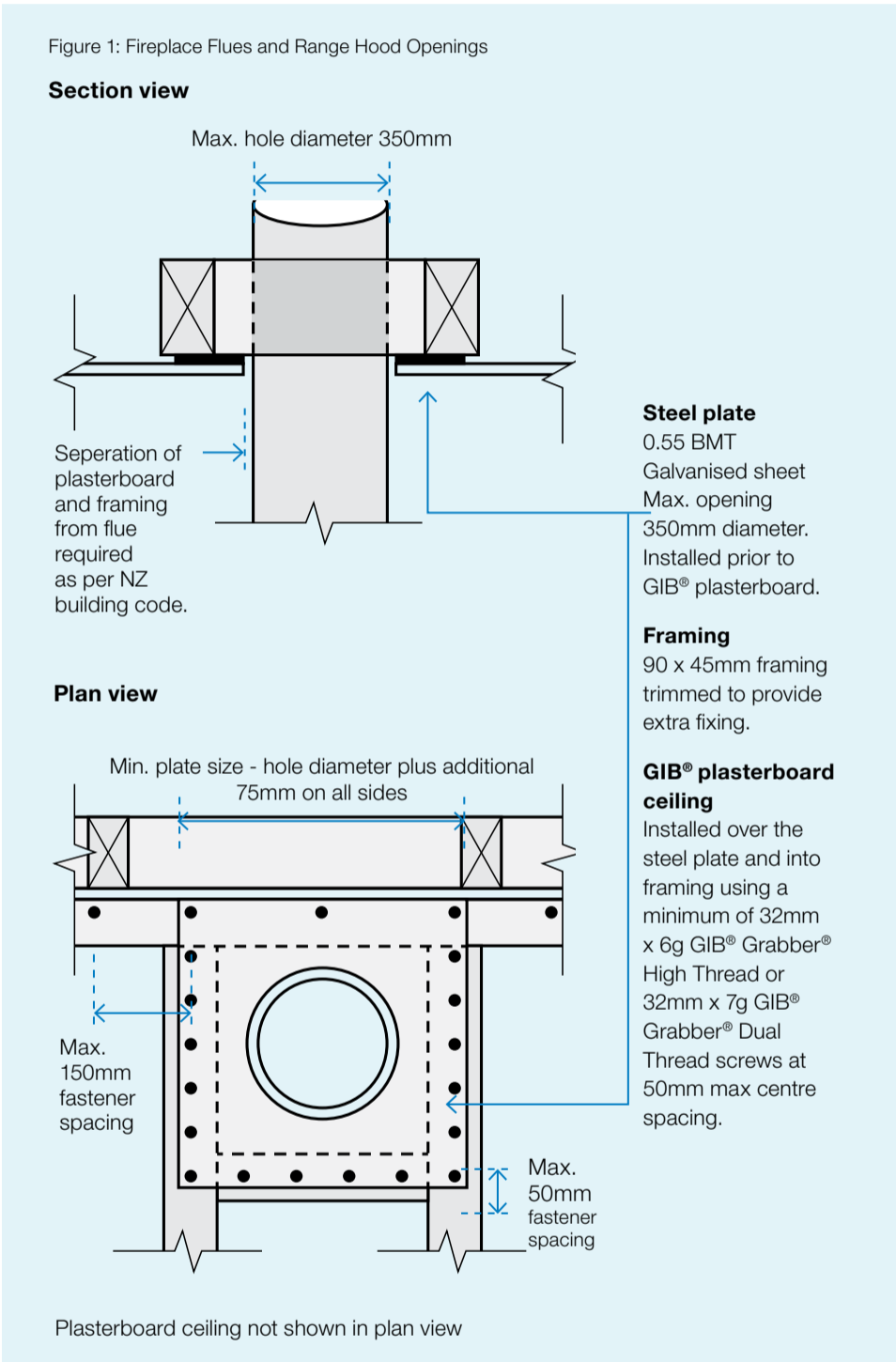
Linings have to be installed over the entire area of the diaphragm. Fasteners are placed at specific centres around the perimeter of the ceiling diaphragm using the GIB EzyBrace® fastener pattern. For GIB® Rondo® Metal Battens, a metal channel or metal angle is required at the perimeter of the diaphragm. When using double top plates (rather than a 140 x 35 packer plate) a metal channel or metal angle is required around the perimeter.

This requirement also applies to changes in the pitch such as in a coved ceiling or with scissor trusses. (Refer to the GIB® Site Guide page 69 for more information).

It is critical for there to be a strong connection between the ceiling and the walls for the load transfer. When planning your sheet set out, use full width sheets where possible. Minimum sheet size of 600mm x 1800mm provided all adjacent sheets are back blocked.

If a Level 5 finish is required, or for larger areas, other back blocking requirements may apply.

For more information refer to the GIB® Site Guide or call the GIB® Helpline on 0800 100 442.



GIB RONDO® 310
CEILING BATTEN
IN STOCK

PRODUCT

by Cath Montgomery
Product Manager

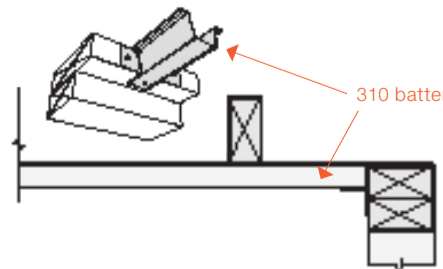


There are many challenges facing the New Zealand building industry at present, but sourcing a ceiling batten does not

have to be one of them. The GIB® Rondo® 310 metal ceiling batten is 35mm deep and it can easily be used in place of 70x35mm timber battens.

All you need to know about installation of the GIB® Rondo® 310 batten can be seen in our series of short installation videos, the latest clip shows the different options available for direct fixing or you can read the one page overview.

Go to gib.co.nz/installation-videos/ to watch the GIB® Rondo® installation video.



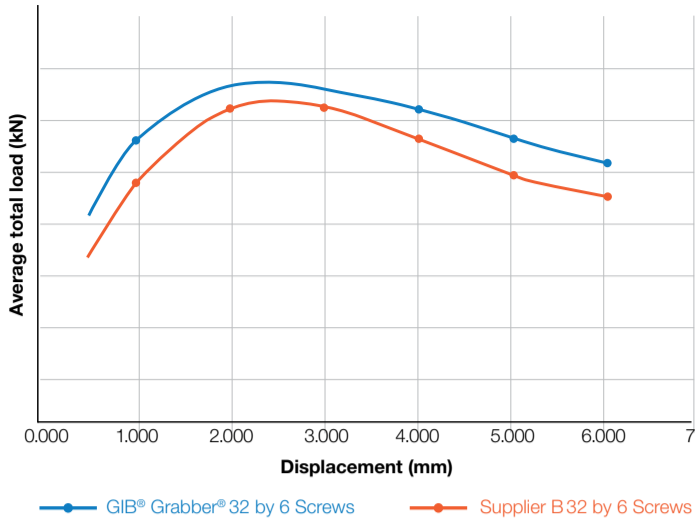
GIB® Rondo® 310 Batten Span Table for Residential Internal Applications.

| GIB® Plasterboard thickness single layer | Maximum batten spacing |
|--|------------------------|
| 10mm | 450mm |
| 13mm | 600mm |

GIB® GRABBER® SCREWS – NOT ALL SCREWS ARE CREATED EQUAL

PRODUCT

by Cath Montgomery
Product Manager



At times customers have asked “why do GIB® Grabber® screws cost more than other screws in the market?” Understandably without an explanation to this question, customers can get a bit frustrated. This article explains why GIB® Grabber® screws have been selected as the specified screws for all GIB® systems.

Every single shipment of GIB® Grabber® screws are put through rigorous testing before being shipped to New Zealand. Without exception, all fastener types in that shipment are tested. Constant testing of both physical characteristics and performance properties ensure that GIB® Grabber® products are consistent in quality.

In addition to supplier testing, Winstone Wallboards’ team of technical staff regularly test the performance of GIB® Grabber® Screws and occasionally other products available in New Zealand to see how they perform in the GIB® systems where GIB® Grabber® screws are “constant high performers”.

In bracing tests Winstone Wallboards’ testing has identified issues in other fasteners such as:

- Heads snapping during testing.
- Variation in head size which impacts lateral load.
- Inconsistent physical and material properties which impact performance.

The chart above compares the performance of GIB® Grabber® with an alternative screw in a displacement test, showing the GIB® Grabber® screws performance was superior.

In addition to the guaranteed quality of the GIB® Grabber® screw comes with many additional benefits including:

- GIB® Grabber® Screws are tested in all our GIB® Systems and we know they work.
- Supported by the GIB® Product and Systems Warranty.
- Supported by the GIB® Technical support team.

— Continuity of supply, with Winstone Wallboards’ excellent supply chain team always ensuring large stock holding to satisfy the highs of market demand.

As one of our customers told us in research completed in late 2020;

“It’s not so much about what it costs, it’s about what it actually delivers – a tried and tested product with back up. That means I can trust it.”

For more information call the GIB® Helpline on 0800 100 442.

GIB BARRIERLINE® COMMON MISTAKES

TALKING TRADE

by Dan Reynolds
Technical Advisor



One of the key things we do as the GIB® Technical Support team is trouble shoot installation issues. We prefer to be there helping answer questions before anything becomes an issue but often we get calls to come to site once an issue has raised it’s head, like a failed inspection.

One of the things that comes up reasonably often is issues arising from GIB Barrierline® systems installations. Interestingly, many of the issues seen on site with GIB Barrierline® can be easily rectified or even avoided.

Here are some of the most frequently asked questions and our answer:

Q: I’m struggling to get the GIB® Wall Clips onto the H stud because it’s behind a timber stud.

A: As you install the GIB Barrierline® sheets you can cut them down, even by 30-50mm to make this line up for clip fixing.

Q: I’ve been told I have to put clips on every row of nogs?

A: No, GIB® Wall Clips only need to be placed within 600mm of the top of each GIB® H-stud, no further than 3000m vertically.

Q: GIB Barrierline® has been out in the heavy rain for a few weeks now, is it going to be OK?

A: GIB Barrierline®, once installed, can be exposed to the rain for up to 12 weeks. The 16mm GIB Fyrelime® fixed in the roof space can be exposed up to 4 weeks.

Q: Can we use the GIB® H-stud horizontally at the end of the 3m long sheets?

A: No, this must be a Rondo® 140 Perimeter Channel, these are placed back to back and screwed together.

Q: Do I need to fire rate the flush boxes and switchboard?

A: Anything under 90x90mm you won’t need to fire-rate. Something larger like a switchboard you will need to build a baffle box in the framing. We have guidance on how to do this in our GIB Noise Control® systems literature.

Q: What do we do if we have a Ply substrate for rubber tile roofing as opposed to roofing underlay and tin?

A: In that situation you don’t need Mineral Wool at the top, just take the GIB Barrierline® and 16mm GIB Fyrelime® up to the underside of the Ply and apply some GIB Fire Soundseal®.

Q: How do we address a cantilever at the end of a building?

A: We now have a recently developed detail for how to address most cantilever

situations which involves use of a number of aluminium L clips to take the weight. Refer to GNS310 on the GIB® website.

Q: I have a section of GIB Barrierline® wall “outside” onto a deck area, do we have to put insulation out there too?

A: No, the insulation is only there to assist with the Noise Control and seeing as it is outside you don’t need that. In this situation you can use GIB Weatherline® for the outside wall linings too.

The GIB Barrierline® system is relatively straightforward to install, take the time to read the instructions in our literature beforehand as most of what you need is in there.

If you get stuck, don’t guess, give us a call on the GIB® Helpline 0800 100 442 or go to gib.co.nz/barrierline

INSTALLATION OF GIB HANDIBRAC® – PANEL HOLD-DOWN BRACKET

TALKING TRADE

by Doug Connors
Technical Advisor



Developed in conjunction with MiTek®, the GIB HandiBrac® has been designed and tested by Winstone Wallboards for use in GIB EzyBrace® elements that require hold-downs.

The GIB HandiBrac® with BOWMAC® blue head screw bolt is suitable for timber and concrete floors constructed in accordance with NZS 3604:2011.

The use of the GIB HandiBrac® provides quick and easy installation. As the bracket is fitted inside the framing this allows a flush surface for the wall

linings. There is no need to check in the framing as is recommended when fitting conventional straps.

The use of the GIB HandiBrac® allows for installation and inspection at any stage prior to fitting internal linings. It is suitable for both new and retrofit construction.

Preparation and installation tips

- Use a 10mm diameter masonry drill bit for a solid concrete substrate and an 8mm diameter drill bit for fixing to a timber sub-floor.
- Drill a hole into the base material to depth 8mm deeper than the required embedment and clean out the hole of dust and debris prior to installation of BOWMAC® screw bolt.
- Use a quality hexagonal socket with a ratchet spanner.
- During installation debris or dust created by the thread cutting action may cause some resistance to be experienced. This is easily overcome by unscrewing the BOWMAC® screw bolt for one turn or more and then continuing to fix to the full embedment.



Installation

01. Correctly position the GIB HandiBrac® to suit the sub floor (refer GIB® Site Guide (2018) pp 63)
02. Install the hex screw (see red circle above) located in the bracket base when it is in the required position.
03. Insert the blue bolt through the GIB HandiBrac® into the hole and begin tightening the bolt by applying forward pressure when engaging the first thread.
04. Additional forward pressure may be required for installation in high strength, dense base materials.

05. Continue tightening the anchor until the head is firmly seated against the GIB HandiBrac® base. In extremely dense material, use of an impact wrench is recommended.
06. Be sure the bolt is at the required embedment depth.
07. Install remaining four screws into the face of the timber stud.
08. The installation is now complete.

For further information refer to the GIB® Site Guide or call the GIB® Helpline 0800 100 442.



Did you miss the latest
GIB TradeTalk® ONLINE?



Scan the QR code or go to gib.co.nz/lbp-learning-resources and view at your convenience.

ROUND HOLES VS. SQUARE HOLES

CASE STUDY

by Graeme Robertson
Technical Advisor



One of the common topics we get calls to the GIB® Helpline for is bracing, and more specific, about holes being cut into a bracing element.

Recently we conducted a test in the Lab using our P21 bracing test rig. The test consisted of 2 oversized holes, one square and one round. The purpose

of this test was to demonstrate how the forces that are applied to a bracing element “flow” through the sheet of plasterboard. When the plasterboard has a hole in it, the shape, size and position of that hole makes a big difference to how it will perform.

The test was designed to demonstrate what is likely to happen when the forces hit a corner of a square hole, where a crack is much more likely to propagate, as opposed to a what happens where there is a rounded corner or round hole. This test also highlights the importance of the location of the hole and the proximity of the hole to the perimeter.

Plasterboard is an ideal structural product, with its balance between rigidity and ductility. In simple terms that means:

stiff and strong when you need it but will sacrifice itself when it reaches a “cap”, or ultimate limit. When it reaches near the top end of this limit, and the board can no longer absorb the stress, the forces look for the weakest point to release that tension. This is usually where there is a corner, or the thinnest piece to bridge, the energy will take a “shortcut” across the board in the form of a crack. On a side note, as observed in the figures below - Figure 3, the crack has aligned itself with a screw. This is a correctly seated screw but is the nearest and weakest point in this area, how much more so if this screw was overdriven!

How does this relate to practical use on the building site? When making holes in any bracing elements, if there is an option to round the corners, i.e. with a hole saw,

the element will always perform better. Another good example we are seeing more of on site is drilling 2 x 50mm Ø holes to create a flush box opening.

The information on openings in GIB® technical literature remains valid including the use of square openings. This information helps to have insight into the “why” behind the “what” and the added benefits of using round holes.

If you are unsure on how to approach a hole in a bracing element, feel free to call the GIB® Technical Helpline on 0800 100 442.



Figure 1: At the start of the test.



Figure 2: Test specimen during racking.



Figure 3: A close up of cracks after racking.

Meet our people

STAFF INTRODUCTION

by Karen Richter
Marketing Executive



Winstone Wallboards delivers much more than just top notch products and systems. We offer unrivalled technical expertise and support from a team who are passionate, dedicated, and experts in their field.



Frank Kang – not your average tech support guy

Take Technical Support and Development Engineer Frank Kang for example. In the six years he's been at Winstone Wallboards, he has helped a lot of customers, honed his expertise in specialist engineering areas like bracing and noise control - and gained a Master of Engineering in Fire Engineering. It's fair to say he knows his stuff!

We catch up with Frank to find out more about what he does, and why he does it.

Frank, tell us a bit about yourself.

I moved to New Zealand from South Korea with my family when I was 13 and attended Westlake Boys High School in Auckland. My real name is Ho-Hyung, but when we came here my parents decided to give me an English name. They chose 'Frank' because they wanted me to always speak frankly, be truthful and not tell lies! I got married in 2015 – the same year I started at Winstone Wallboards – and have one daughter and another baby on the way.

What about your professional background?

I studied at the University of Auckland, completing my Bachelor of Civil Engineering in 2010. My first job out of

uni was based in Auckland, as a field engineer for Hilti. I relocated to Christchurch during my time there and provided technical support and training on post-installed anchors and fire stopping products to customers.

Directly prior to joining Winstone Wallboards I was a graduate structural engineer for structural design consultancy HFC Group. My job entailed everything from structural design of residential foundation solutions (including soil testing and investigation) to structural assessment on earthquake damaged houses and construction monitoring.

What appealed to you about joining Winstone Wallboards?

I was attracted by the reputation of the technical team and the wider business. GIB® has great standing and respect in the market – it's an iconic Kiwi brand to work for! I also liked the research element of the role, and the chance to gain exposure in specialised areas of engineering such as bracing, fire and noise.

What do you find most rewarding about your job?

I particularly enjoy providing technical support to our internal and external customers, and servicing the construction industry. There's nothing more satisfying than troubleshooting and problem solving!

Have there been any surprises?

When I joined the team, I didn't realise that I'd have the opportunity to expand my knowledge in the way that I have.

Thanks to the support of the Winstone Wallboards and Fletcher Education Fund, I've been able to study towards a Master of Engineering in Fire Engineering, graduating earlier this year. My thesis zeroed in on plasterboard fire rated systems, and understanding the performance of timber-frame, load-bearing plasterboard walls subjected to two-sided fire exposure.

How does your research benefit Winstone Wallboards customers?

My thesis is extremely relevant to our GIB® plasterboard fire rated system and at the moment I'm working on a GIB® publication which outlines all of my

findings. We often receive inquiries from designers, specifiers and fire engineers wanting to grasp the specifics of GIB® fire rated systems. My studies have helped me better understand their needs and become more confident when providing technical engineering support.

We have a really experienced team at Winstone Wallboards and we're always willing to assist with inquiries.



Compliance lessons are just the beginning – meet Jennifer Haraki

Jennifer Haraki is helping shape the next wave of industry newcomers in her role as Winstone Wallboards Technical Training and Support Advisor.

A familiar face in polytechnics and private training establishments nationwide, Jennifer teaches aspiring carpenters, architects, projects managers and quantity surveyors about the importance of compliance. And while her lessons are "a basic introduction to GIB® performance systems and finishes for fire, noise and bracing", they encompass a great deal more than just plasterboard.

"When these young people step out of the classroom and into the workplace, it's important that their learnings are immediately relevant," says Jennifer. "Yes, I teach them about plasterboard, but for plasterboard to look good, they have to understand their role in the bigger picture.

I help people understand where they are going and ensure they can make a meaningful contribution to their employer from the moment they pull on their work boots. It's my job to make sure that when they leave the classroom, they get it right."

By helping students join up the dots as they lay the building blocks to their careers, Jennifer, and Winstone Wallboards, are playing a critical role in a vital sector.

"Our industry is a labyrinth of connections and if you don't understand these connections, or have people who can help you make these connections, it can become very disjointed. That's why working with those who are just starting out is so important."

And with 40 years of experience in the industry, it's a task Jennifer is well qualified for.

"My trade is carpentry. Because I know how to build a house, I had the opportunity to complete a QS cadetship, become an architectural technician, project manager and gain a legislative role as a building consent processor and inspector with Council.

"I've learnt so much in the last 40 years. I try to instil in my students the importance of teamwork and collaboration, and I teach them how to find the best solutions for on-site issues and understand that even if the answer is not welcomed, it is still helping them."

It's an industry that Jennifer is deeply passionate about, and one that offers many exciting career opportunities.

"This is an amazing sector to be a part of, and it is definitely evolving. There's more willingness now for industry to take on female apprentices, and there's a lot more support too. If you're considering a trades career I'd definitely say give it a shot!"



Get in touch via our website gib.co.nz
Call the GIB® Helpline **0800 100 442**