



Weatherline® Rigid Air Barrier Systems Supplement

Supplement	ISSUE DATE
NZBC CLAUSES C1–C6 – PROTECTION FROM FIRE for Multi-level buildings over 25m in height	December 2020
GWTE 120 Two-way - Timber Frame External Wall System	December 2020
GWSE 120 Two-way - Steel Frame External Wall System	December 2020
GIB Weatherline Fire System Options For External Walls	April 2021
GWUW 30 One-way Timber or Steel Frame System	April 2021
GWUW 60 One-way Timber or Steel Frame System	April 2021
Protecting Framing Around External Wall Openings From Façade Fire Spread	July 2021
GWSET 60 Two-way Steel Frame External Wall System with Thermal Break	July 2021
Fixing method for Flexible Wall Underlays for NZS3604 Wind Loadings	July 2021
41mm x 6g GIB Weatherline® Ceramic Screw Substitution Options	November 2021
GIB Weatherline® Flashing Tape Substitution Options	March 2022
GIB Weatherline® Horizontal Sheet Joint at Concrete Mid Floor with Flexible Control Joint Detail	December 2025
GWTP 120 Two-way - Timber Frame External Wall System	August 2026
GWSP 120 Two-way - Steel Frame External Wall System	August 2026



NZBC CLAUSES C1–C6 – PROTECTION FROM FIRE for Multi-level buildings over 25m in height

Issue Date December 2020

GIB Weatherline® Rigid Air Barrier Systems can be used to provide passive fire protection in accordance with the requirements of NZBC Clauses C1-C6 – Protection from Fire.

NZBC Acceptable Solution C/AS2 and associated MBIE Guidance Revision 2: 2020 impose combustibility limits on cladding materials, including the rigid air barrier. In addition, 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.

Unless a higher FRR is required, our recommendation is specification GWTLE 60b for timber framed external walls, or GWSE 60 for non-loadbearing steel stud framing, additionally clad with compliant cladding materials.

Alternatively, compliance can be achieved if the complete external wall is subjected to medium or large-scale fire testing. Tested systems using 13mm GIB Weatherline® as the substrate currently include:

Paneltec New Zealand

Phone: 09 439 4357

Email: info@paneltec.co.nz

Website: paneltec.co.nz

Symonite Architectural Façade Specialists

Phone: 09 439 4357

Email: info@symonite.co.nz

Website: symonite.co.nz

Please refer to these suppliers for more information on their proprietary systems.

Two-way FRR – timber frame external wall

Specification	Performance	Specifications
GWTE 120	FRR -/120/120	Lining 2 x 13mm GIB Weatherline® exterior side 2 x 13mm GIB Fyrelite® internal side LB/NLB NLB

FRAMING

Stud size: 90mm minimum. Framing to comply with:

- NZBC B1 – Structure: AS1 Clause 3 – Timber (NZS 3604) or VM1 Clause 6 – Timber (NZS 3603).
- NZBC B2 – Durability: AS1 Clause 3.2 – Timber (NZS 3602).
- Studs at 600mm centres maximum.
- Nogs at 1350mm centres maximum.

INSULATION

Inclusion of insulation is optional and depends on the building's thermal performance requirements. Mineral wool, glass wool or polyester fibrous insulation materials are acceptable.

WALL LINING / SHEATHING

Exterior side – 2 layers of 13mm GIB Weatherline® sheet fixed vertically. Use full height sheets where possible. All sheet joints and edges must be formed over solid framing and staggered between layers. Sheet joints are touch fitted. A 10mm gap between sheet edges must be left at floor levels, formed over framing or solid construction materials.

Internal side – 2 layers of 13mm GIB Fyrelite® fixed vertically. See specification GBT 120a.*

* GIB® Fire Rated Systems, 2018.

** GIB Weatherline® Rigid Air Barrier Systems, 2021.

FASTENING THE LINING / SHEATHING

Exterior side fasteners

Inner Layer: 41mm x 6g GIB® Grabber® Ceramic Coated High Thread Screws.

Outer Layer: 63mm x 6g GIB® Grabber Ceramic Coated High Thread Screws.

Maximum fastener centres

Place fasteners at 300mm centres around the sheet perimeter and intermediate studs.

Note that outer layer GIB Weatherline® perimeter and intermediate fasteners are commonly at closer centres depending on Wind Loading requirements, see Table 4.**

Place fasteners at 12mm from bound sheet edges and 18mm from sheet ends and cut edges.

Internal side fixing

See specification GBT 120a*.

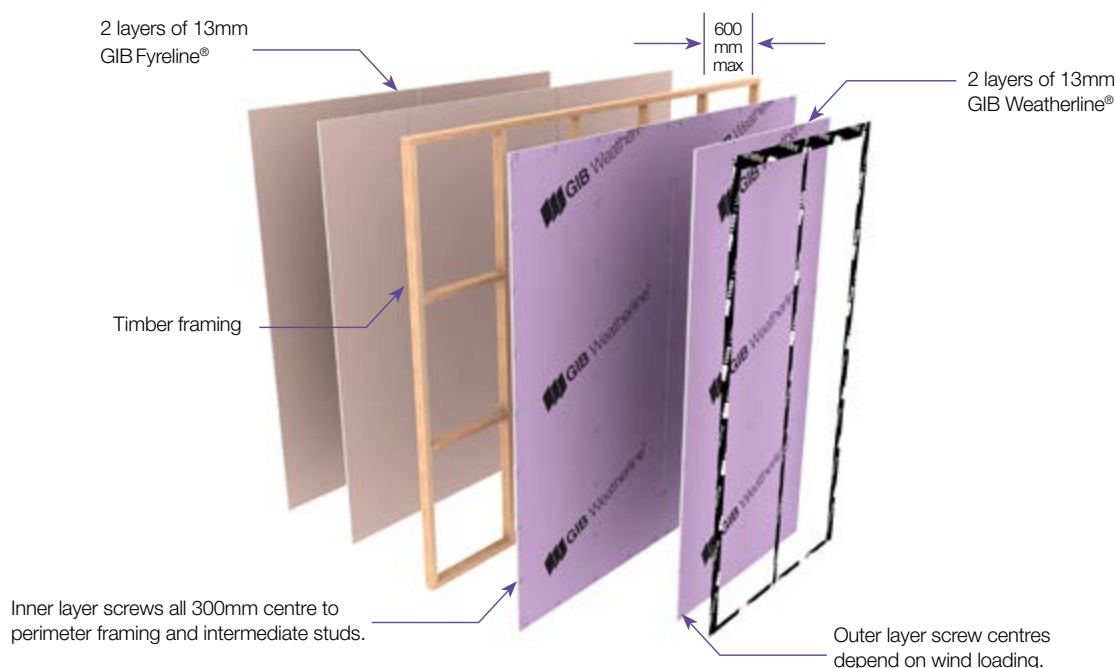
JOINTING

Exterior side

No plaster stopping required. Unless the entire surface is protected with a self-adhesive WRB, all joints and screw fixings must be taped with GIB Weatherline® Flashing Tape. No tape is required over mid-sheet fasteners under a structural cavity batten.

Internal side

All fastener heads must be stopped and all sheet joints tape reinforced and stopped in accordance with the publication entitled GIB® Site Guide.



Two-way FRR – steel frame external wall

Specification	Performance	Specifications
GWSE 120	FRR -/120/120	Lining 2 x 13mm GIB Weatherline® exterior side 2 x 13mm GIB Fyreline® internal side LB/NLB NLB

FRAMING AND WALL HEIGHT

Minimum steel stud dimensions to be 92 x 34mm x 0.55 BMT with a 6mm return.

Minimum steel channel dimensions to be 92 x 30mm x 0.50 BMT.

Steel stud and channel must be a minimum BMT of 0.75mm if the wall is to be subjected to wind loads.

Top and bottom channels are fixed to the floor and ceiling in true alignment.

Stud spacing at 600mm centres maximum.

Place studs to allow the nominated expansion gap at the top of the frame.

The studs are held in place by the “grip” of the channels.

Otherwise detailing of steel wall framing to support wind loads and the external cladding is by specific engineering design, allowing for an expansion tolerance equal to 0.5% of wall height.

INSULATION

Inclusion of insulation is optional and depends on the building's thermal performance requirements. Mineral wool, glass wool or polyester fibrous insulation materials are acceptable.

WALL LINING/SHEATHING

Exterior side - 2 layers of 13mm GIB Weatherline® sheet fixed vertically. Use full height sheets where possible. All sheet joints and edges must be formed over solid framing and staggered between layers. Sheet joints are touch fitted.

Internal side - 2 layers 13mm GIB Fyreline® fixed vertically. See specification GBS 120b.*

* GIB® Fire Rated Systems, 2018.

** GIB Weatherline® Rigid Air Barrier Systems, 2021.

FASTENING THE LINING / SHEATHING

Exterior side fasteners

Inner layer: 32mm x 8g GIB® Grabber® Ceramic Coated Drill Point Screws.

Outer layer: 47mm x 8g GIB® Grabber® Ceramic Coated Drill Point Screws.

Maximum fastener centres

Place fasteners at 300mm centres to all studs.

Note that outer layer GIB Weatherline® fasteners are commonly at closer centres depending on Wind Loading requirements, see Table 4.**

Place fasteners at 12mm from bound sheet edges and 50mm from sheet ends and cut edges.

Internal side fixing

See specification GBS 120b.*

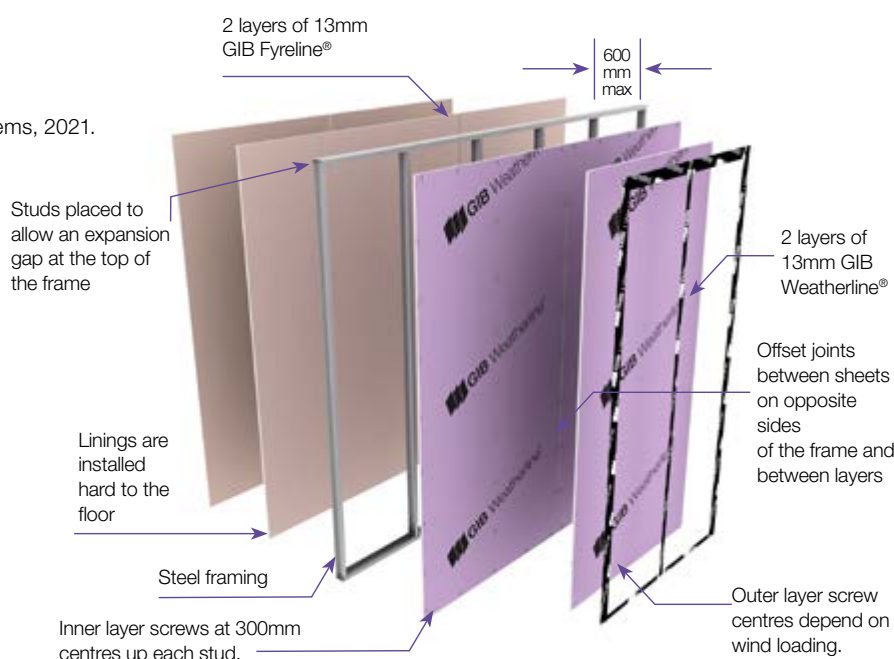
JOINTING

Exterior side

No plaster stopping required. Unless the entire surface is protected with a self-adhesive WRB, all joints and screw fixings must be taped with GIB Weatherline® Flashing Tape. No tape is required over mid-sheet fasteners under a structural cavity batten.

Internal side

All fastener heads must be stopped and all sheet joints tape reinforced and stopped in accordance with the publication entitled GIB® Site Guide.





Weatherline® Fire System Options For External Walls

Issue Date April 2021

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.

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

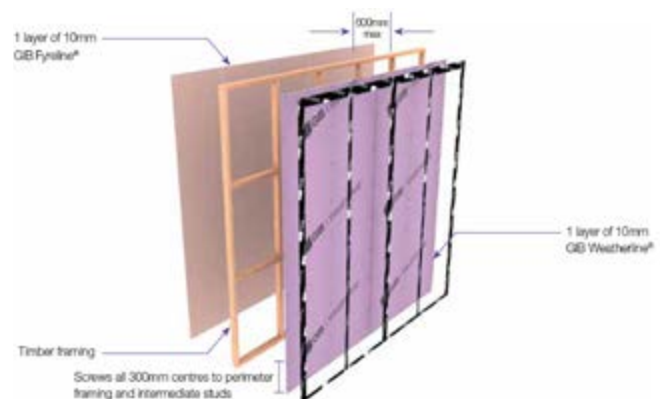


Figure 1: GWTLE 30

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.

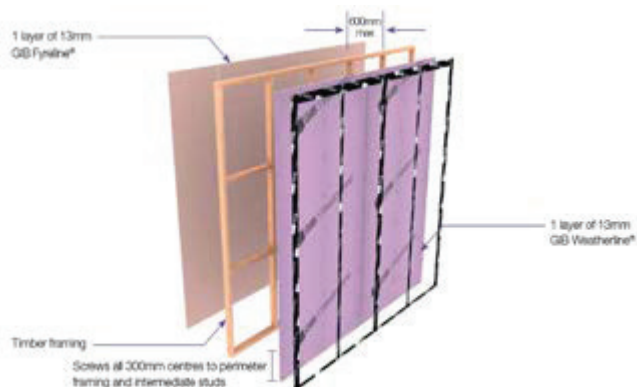


Figure 2: GWTLE 60a

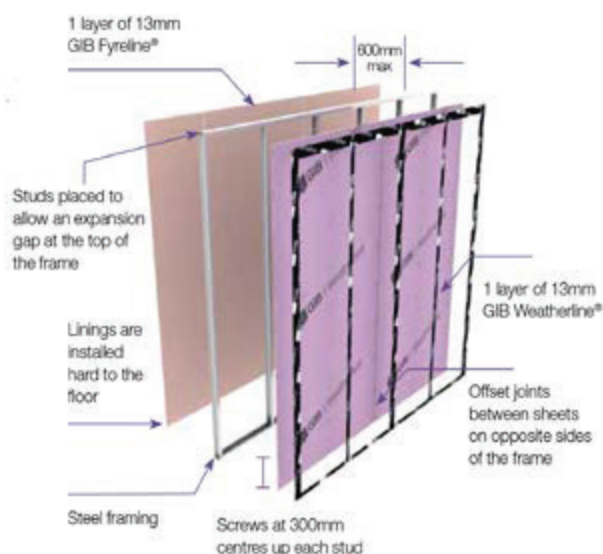


Figure 3: GWSE 60

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.

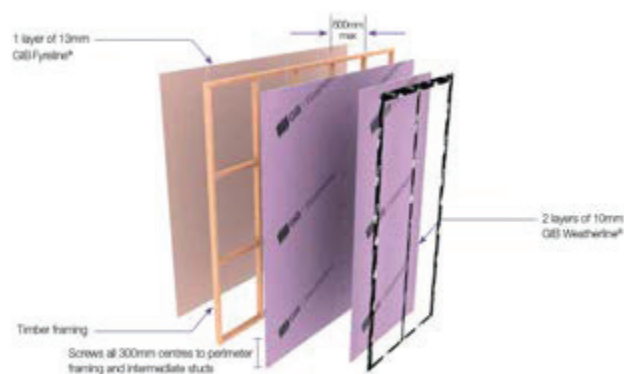


Figure 4: GWTLE 60b

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 see www.gib.co.nz/weatherline

For more information on GIB Weatherline®

Rigid Air Barrier Systems refer to GIB Weatherline® technical literature available at gib.co.nz/weatherline or contact the GIB® Helpline 0800 100 442.



One-way FRR – timber or steel frame

Specification	Performance	Specifications
GWUW 30	FRR 30/30/30	Lining 2 x 10mm GIB Weatherline® one side LB/NLB Load bearing

FRAMING

Timber or steel frame designed to meet durability and structural criteria for strength and serviceability under dead and live loads.

The width of framing supporting the linings shall be 35mm minimum.

The cavity depth shall be 90mm minimum.

Framing spacing shall be at 600mm centres maximum.

Timber frame height and dimensions as determined by NZS 3604 stud tables or specific design.

INSULATION

Inclusion of insulation is optional and depends on the building's thermal performance requirements. Mineral wool, glass wool or polyester fibrous insulation materials are acceptable.

WALL LINING / SHEATHING (FIRE SIDE)

2 layers of 10mm GIB Weatherline® to one side of the frame.

Vertical or horizontal fixing permitted. For vertical fixing, full height sheets shall be used where possible.

Sheet shall be touch fitted.

All sheet joints must be formed over framing, except for longitudinal joints when the outer layer is fixed horizontally.

All sheet joints must be staggered between layers.

* GIB Weatherline® Rigid Air Barrier Systems, 2021.

FASTENING THE LINING / SHEATHING

Fasteners

Layer	Timber Frame	Steel Frame
Inner layer	41mm x 6g GIB® Grabber® Ceramic Coated High Thread Screws	32mm x 8g GIB® Grabber® Ceramic Coated Drill Point Screws
Outer layer	63mm x 8g GIB® Grabber® Ceramic Coated High Thread Screws	47mm x 8g GIB® Grabber® Ceramic Coated Drill Point Screws

Maximum fastener centres

Inner layer: 600mm centres up each stud.

Outer layer: 300mm centres up each stud.

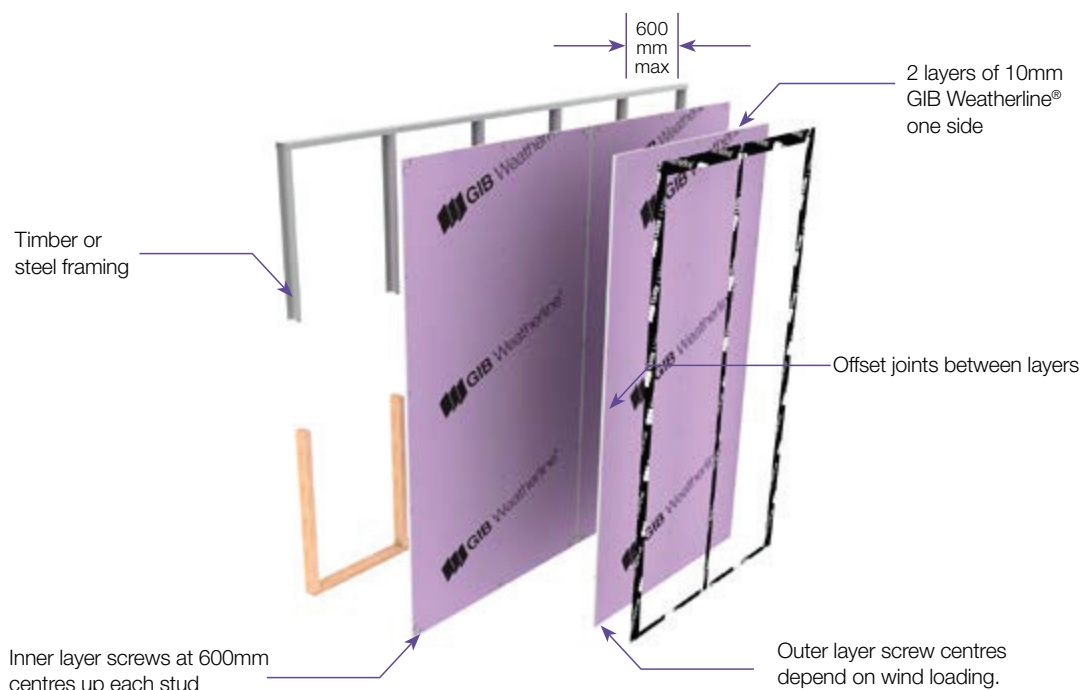
Note that outer layer GIB Weatherline® perimeter and intermediate fasteners are commonly at closer centres depending on Wind Loading requirements, see Table 4.*

Place fasteners at 12mm from bound sheet edges and 18mm from sheet ends and cut edges.

Place fasteners at 200mm centres along sheet end butt joints.

JOINTING

No plaster stopping required. Unless the entire surface is protected with a self-adhesive WRB, all joints and screw fixings must be taped with GIB Weatherline® Flashing Tape. No tape is required over mid-sheet fasteners under a structural cavity batten.





One-way FRR – timber or steel frame

Specification	Performance	Specifications
GWUW 60	FRR 60/60/60	Lining 2 x 13mm GIB Weatherline® one side LB/NLB Load bearing

FRAMING

Timber or steel frame designed to meet durability and structural criteria for strength and serviceability under dead and live loads.

The width of framing supporting the linings shall be 35mm minimum.

The cavity depth shall be 90mm minimum.

Framing spacing shall be at 600mm centres maximum.

Timber frame height and dimensions as determined by NZS 3604 stud tables or specific design.

INSULATION

Inclusion of insulation is optional and depends on the building's thermal performance requirements. Mineral wool, glass wool or polyester fibrous insulation materials are acceptable.

WALL LINING / SHEATHING (FIRE SIDE)

2 layers of 13mm GIB Weatherline® to one side of the frame.

Vertical or horizontal fixing permitted. For vertical fixing, full height sheets shall be used where possible.

Sheet shall be touch fitted.

All sheet joints must be formed over framing, except for longitudinal joints when the outer layer is fixed horizontally.

All sheet joints must be staggered between layers.

* GIB Weatherline® Rigid Air Barrier Systems, 2021.

FASTENING THE LINING / SHEATHING

Fasteners

Layer	Timber Frame	Steel Frame
Inner layer	41mm x 6g GIB® Grabber® Ceramic Coated High Thread Screws	32mm x 8g GIB® Grabber® Ceramic Coated Drill Point Screws
Outer layer	63mm x 8g GIB® Grabber® Ceramic Coated High Thread Screws	47mm x 8g GIB® Grabber® Ceramic Coated Drill Point Screws

Maximum fastener centres

Inner layer: 600mm centres up each stud.

Outer layer: 300mm centres up each stud.

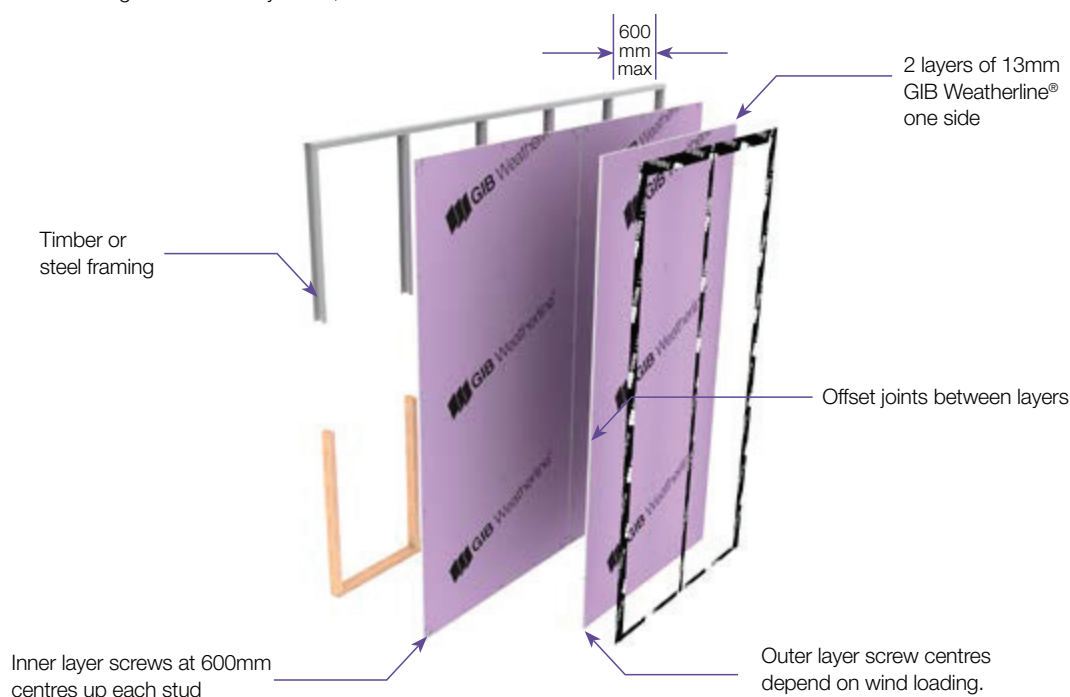
Note that outer layer GIB Weatherline® perimeter and intermediate fasteners are commonly at closer centres depending on Wind Loading requirements, see Table 4.*

Place fasteners at 12mm from bound sheet edges and 18mm from sheet ends and cut edges.

Place fasteners at 200mm centres along sheet end butt joints.

JOINTING

No plaster stopping required. Unless the entire surface is protected with a self-adhesive WRB, all joints and screw fixings must be taped with GIB Weatherline® Flashing Tape. No tape is required over mid-sheet fasteners under a structural cavity batten.





Protecting framing around external wall openings from façade fire spread

Issue Date July 2021

GIB Weatherline® Rigid Air Barrier Systems can be used to provide passive fire protection in accordance with the requirements of NZBC Clauses C1-C6 – Protection from Fire.

GIB Weatherline® can be used as a substrate and a substantive component of an otherwise compliant cladding system for limiting façade fire spread. 'GIB Weatherline® Rigid Air Barrier Systems, 2020' literature outlines compliance with NZBC Acceptable Solution C/AS2 and associated MBIE Guidance Revision 2:2020 relating to external wall performance.

Where façade fire spread is a consideration, the recommended specifications for multi-level buildings are summarised below.

Multi-level buildings under 10 metres in height

GWTLE 30 for timber framed walls unless a higher FRR is required.

Multi-level buildings over 10 metres in height and less than 25 metres

Unless a higher FRR is required, GWTLE 60a for timber framed walls, or GWSE 60 for non-loadbearing steel framed walls.

Multi-level buildings over 25 metres in height

Unless a higher FRR is required, GWTLE 60a or GWTLE 60b for timber framed walls (depending on cladding details and local BCA requirements), or GWSE 60 for non-loadbearing steel framed walls.

Although there are no specific requirements in NZBC Acceptable Solution C/AS2 and associated MBIE Guidance Revision 2:2020 for protecting framing around external wall openings, full scale façade testing shows that significant exposure is experienced at the head of the opening and that framing protection at that location is required.

Figure 1 shows how GIB Weatherline® strips are returned into the door or window aperture before joinery is fitted.

The GIB Weatherline® opening protection is the same thickness as the exterior sheathing and screw fixed to the framing at 200 mm centres. GIB Weatherline® flashing and sill tapes are applied prior to installation of door or window joinery.

Tested façade systems conducted in accordance with BS 8414 large scale fire testing also included 13mm GIB Weatherline® protection to the timber framing around combustion chamber wall opening. Contact suppliers for construction details on their proprietary systems.

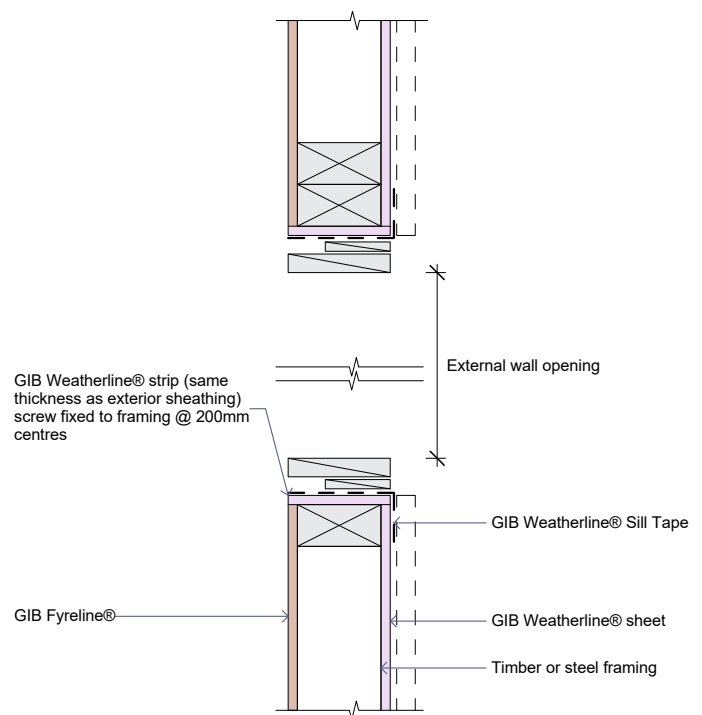


Figure 1. Framing protection around external wall openings

Paneltec New Zealand

Phone: 09 439 4357

Email: info@paneltec.co.nz

Website: paneltec.co.nz

Symonite Architectural Façade Specialists

Phone: 09 439 4357

Email: info@symonite.co.nz

Website: symonite.co.nz

For any further information, please contact the GIB® Helpline on 0800 100 442.

Two-way FRR – steel frame external wall with thermal break

Specification	Performance	Specifications
GWSET 60	FRR -/60/60	Lining 1 x 13mm GIB Weatherline® exterior side 1 x 13mm GIB Fyrelite® internal side LB/NLB NLB

FRAMING AND WALL HEIGHT

Minimum steel stud dimensions to be 92 x 34mm x 0.55 BMT with a 6mm return.

Minimum steel channel dimensions to be 92 x 30mm x 0.50 BMT.

Steel stud and channel must be a minimum BMT of 0.75mm if the wall is to be subjected to wind loads.

Top and bottom channels are fixed to the floor and ceiling in true alignment.

Stud spacing at 600mm centres maximum. Place studs to allow the nominated expansion gap at the top of the frame.

The studs are held in place by the “grip” of the channels.

Otherwise detailing of steel wall framing to support wind loads and the external cladding is by specific engineering design, allowing for an expansion tolerance equal to 0.5% of wall height.

INSULATION

Inclusion of insulation is optional and depends on the building's thermal performance requirements. Mineral wool, glass wool or polyester fibrous insulation materials are acceptable subject to compliance with other relevant performance requirements including vertical or horizontal fire spread in accordance with NZBC Clause C3.

THERMAL BREAK

The thermal break can cover the framing only or be a full sheet material fixed to the steel framing or adhered to the back of the 13mm GIB Weatherline®.

The thermal break material must have a maximum compressed thickness of 12mm, a density greater than 36kg/m³, and achieve a minimum R Value of 0.25 m²K/W.

The width of the thermal break material is commonly at least 10mm greater than the width of the steel framing.

Unless adhered to the GIB Weatherline®, install the thermal break to the exterior face of the steel framing in accordance with the suppliers instructions.

Once GIB Weatherline® sheets are secured to the framing, the thermal break material will be contained.

WALL LINING/SHEATHING

Exterior side - 1 layer of 13mm GIB Weatherline® sheet fixed vertically. Use full height sheets where possible. All sheet joints and edges must be formed over framing. Sheet joints are touch fitted.

Internal side - 1 layer 13mm GIB Fyrelite® fixed vertically. Use full height sheets where possible. All sheet joints and edges must be formed over framing. Sheet joints are touch fitted. Linings are installed hard to floor.

FASTENING THE LINING / SHEATHING

Exterior side fasteners

47mm x 8g GIB® Grabber® Ceramic Coated Drill Point Screws.

Internal side fasteners

25mm x 6g GIB® Grabber® Self Tapping Drywall Screws.

Maximum fastener centres

Place fasteners at 300mm centres to all studs.

Note that GIB Weatherline® fasteners are commonly at closer centres depending on Wind Loading requirements.

Place fasteners at 12mm from bound sheet edges and 50mm from sheet ends and cut edges.

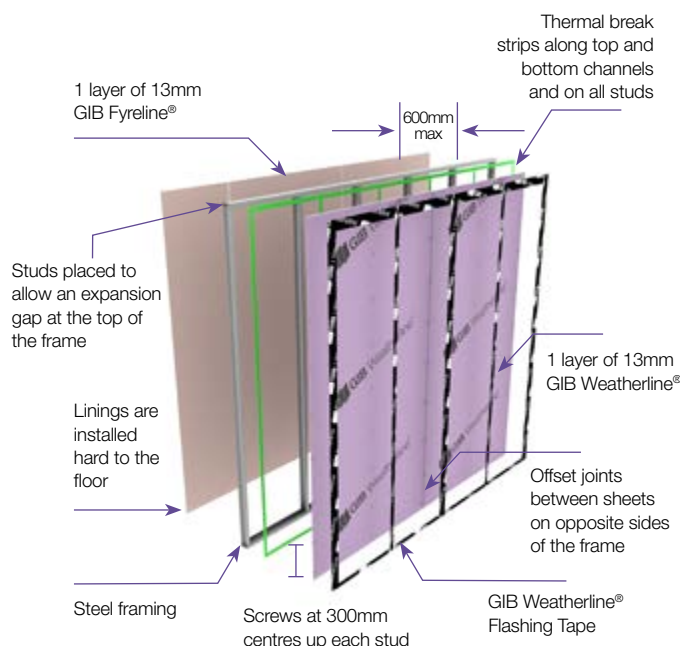
JOINTING

Exterior side

No plaster stopping required. Unless the entire surface is protected with a self-adhesive WRB, all joints and screw fixings must be taped with GIB Weatherline® Flashing Tape. No tape is required over mid-sheet fasteners under a structural cavity batten.

Internal side

All fastener heads must be stopped and all sheet joints tape reinforced and stopped in accordance with the publication entitled GIB® Site Guide.



Structural batten, screw and flexible wall underlay – NZS 3604:2011

GIB Weatherline® can resist pressures from wind passing over a building provided the following conditions are met:

- GIB Weatherline® sheets, including installation of flexible wall underlay and structural cavity batten, are completed in a timely manner when sheet material is dry. Installed sheet joints and fasteners must not be left unprotected when wet or windy conditions can reasonably be expected.
- After installation GIB Weatherline® must not be left exposed for more than 180 days.

NZS 3604 – STRUCTURAL BATTEN, SCREW AND TAPE

This fixing method is suitable for use with a drained cavity cladding system that incorporates a structural cavity batten.

FRAMING

All timber framing sizes and set out must comply with NZS 3604 or be specifically designed to NZS 3603 and AS/NZS 1170. Timber framing preservative treatment must comply with the NZBC and any relevant NZ Standard.

Wall framing studs must be true and plumb and have a minimum face width of 45 mm. Space studs at no more than 600 mm centres for Wind Zones L, M and H and at no more than 400 mm centres for Wind Zones VH and EH.

FIXING SHEETS

For fastener details refer to the Installation section in the GIB Weatherline® Rigid Air Barrier Systems technical literature.

All GIB Weatherline® sheet edges must be fixed to vertical and horizontal framing. Screw fixings are also required to wall framing at any raked sheet edges. There is no requirement to fix sheets to any nogs or any other horizontal mid-sheet framing.

Sheets are fixed at no more than 600 mm centres to studs. Start screw fixing at 75mm from sheet corners and fix sheet ends to top and bottom plates at no more than 200mm centres. Closer screw centres may be required when fire-resistance or bracing is required.

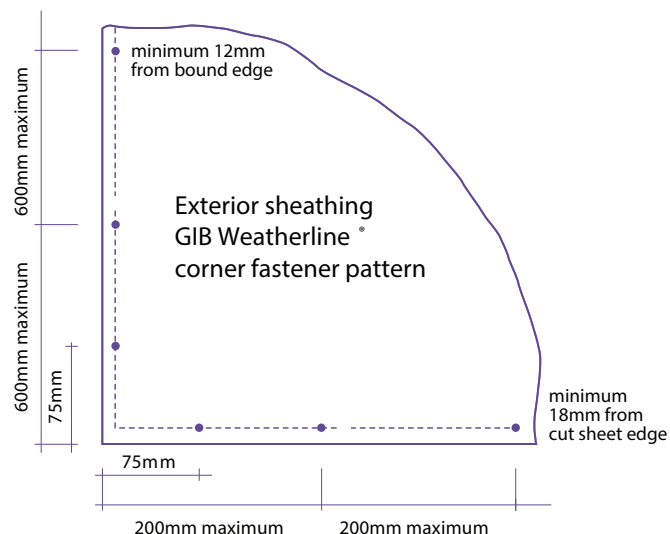
Edge fixing for screws must be a minimum distance of 12mm from bound sheet edges and 18mm from unbound sheet edges (or cut sheet edges).

Ensure screws are not over-driven and that the head of the screw finishes flush with the face of the sheet. Where screws have been over-driven (and the face liner has been damaged and the core exposed), install a new screw fixing 25mm away and adjacent to the over-driven fixing.

FLEXIBLE WALL UNDERLAYS

Flexible wall underlays must meet the requirements of NZBC Acceptable Solution E2/AS1 and be installed in accordance with:

- NZBC E2/AS1 Table 23
- NZBC E2/AS1 paragraph 9.1.5,
- NZBC E2/AS1 paragraph 9.1.7.1, and
- NZBC E2/AS1 paragraph 9.1.7.2 with specific reference to c) and d), and
- the instructions provided by the flexible wall underlay supplier.



Rigid wall underlays covered with a compliant flexible wall underlay are acceptable for use in NZS 3604 wind zones up to and including Extra High.

The flexible wall underlay can be fixed to the surface of GIB Weatherline® sheets using 6-8mm stainless steel or zinc-plated staples and is secured by installation of structural cavity battens.

Run the flexible wall underlay over any openings which should be left covered until the windows and doors are ready to be installed. To form the openings cut the flexible wall underlay at a 45 degree diagonal in from each corner. Fold and staple the wall underlay to the inside of the framed opening. Excess wall underlay can be trimmed.

All openings must be detailed using compliant flashing and sill tapes compatible with the flexible wall underlay.

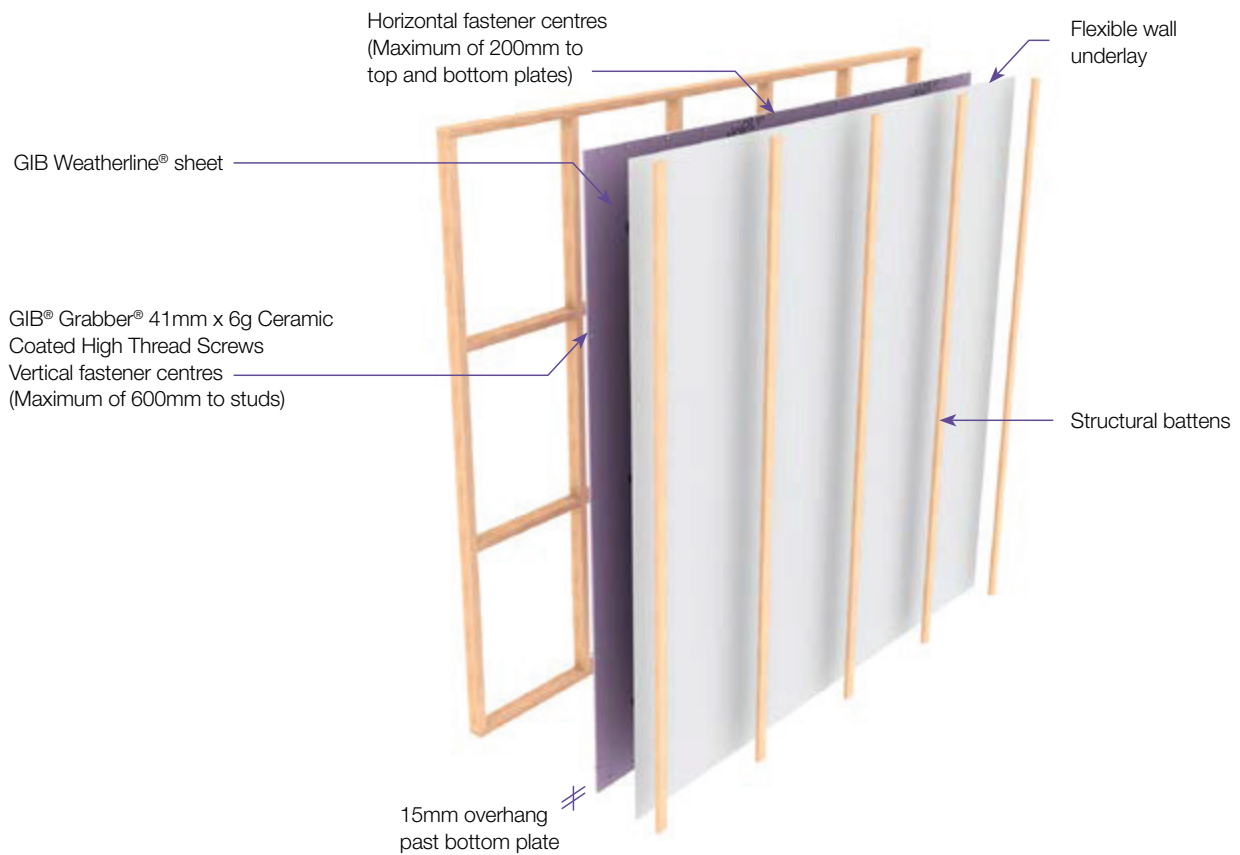
STRUCTURAL CAVITY BATTENS

Timber cavity battens must be minimum H3.1 treated, no smaller than 45 x 18mm. Fixing is with 75 x 3.15mm galvanised jolt head nails or 75 x 3.06mm D Head power-driven galvanised nails, or as required by specific cladding types.

Timber battens are fixed to studs behind at no more than 300mm centres vertically, staggered 12mm either side of the batten centreline.

Alternatively use verified proprietary structural cavity battens.

Proprietary horizontal structural timber cavity battens may be used for vertical cladding systems where the GIB Weatherline® is overlaid with a flexible wall underlay. Proprietary horizontal timber cavity battens must be structurally rated and castellated with notches evenly spaced to allow for moisture drainage





41mm x 6g GIB Weatherline® Ceramic Screw Substitution Options

Issue Date November 2021

41mm x 6g GIB® Weatherline ceramic coated screws (Product Number 15741), may be substituted in GIB Weatherline® rigid air barrier systems for the below screws for use with timber framing.

- 47mm x 8g GIB Weatherline drill point, collated. (Product Number 15882).
- 63mm x 8g GIB Weatherline high thread, loose. (Product Number 15881).

All GIB Weatherline® rigid air barrier system performance, warranty and durability statements outlined in GIB Weatherline® technical literature continue to remain in effect.



Weatherline® Flashing Tape Substitution Options

Issue Date March 2022

GIB Weatherline® Flashing and Sill Tapes may be substituted in GIB Weatherline® rigid air barrier systems for the below Pro Clima Tescon Extora and Extoseal tape products. All GIB Weatherline® rigid air barrier system performance, warranty and durability statements outlined in GIB Weatherline® technical literature continue to remain in effect.

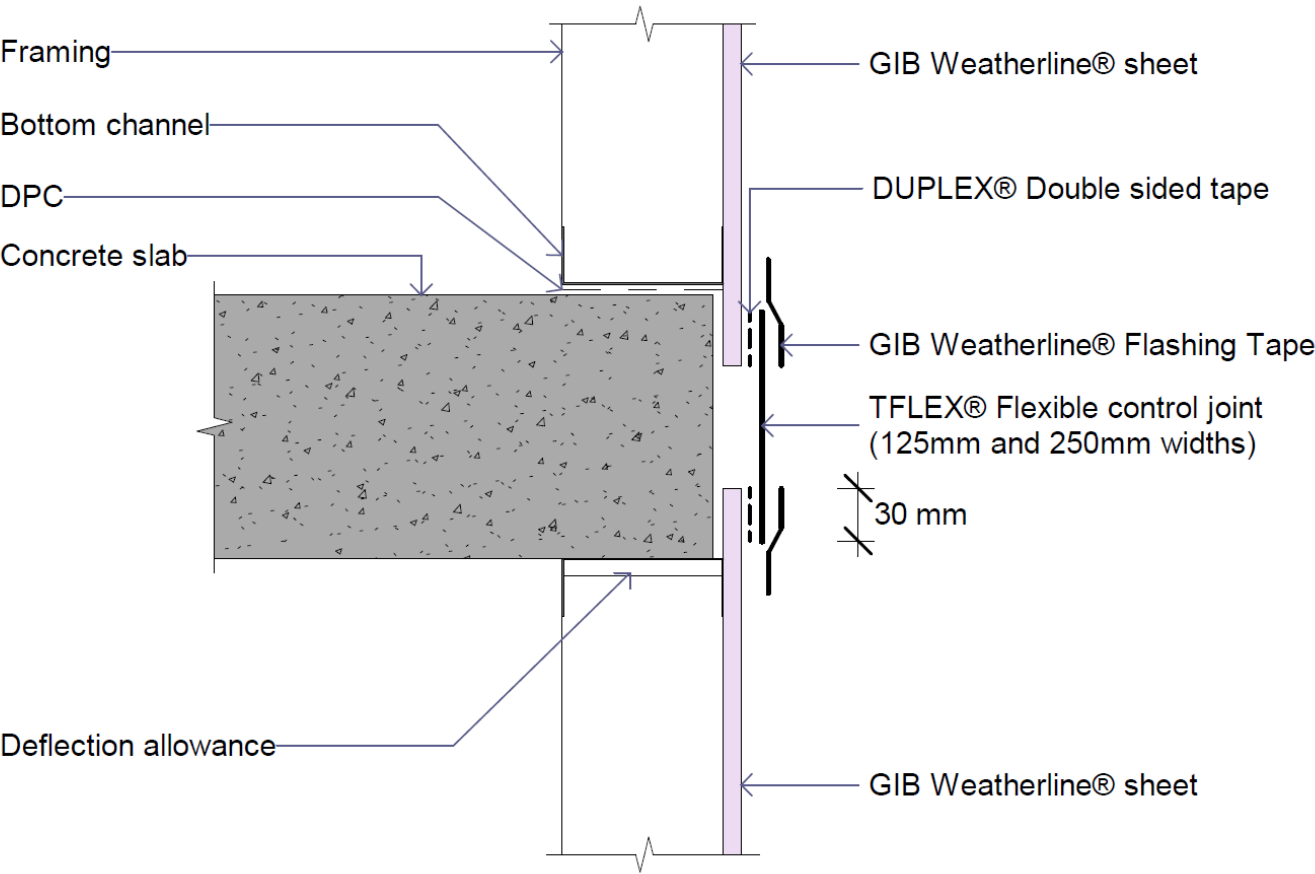
GIB Weatherline® Tape	Pro Clima Tape
150mm GIB Weatherline® Flashing Tape (15744)	TESCON EXTORA 150 (14891)
200mm GIB Weatherline® Flashing Tape (15745)	TESCON EXTORA 200 (14892)
150mm x 20m GIB® Sill Tape (15746)	TESCON EXTOSEAL® Sill Tape 150 (14152)
200mm x 20m GIB® Sill Tape (15747)	TESCON EXTOSEAL® Sill Tape 200 (14156)

For more information on Pro Clima Tescon Extora and Extoseal tape products visit: proclima.co.nz

Weatherline® Horizontal Sheet Joint at Concrete Mid Floor

Issue Date December 2025

© Winstone Wallboards Limited 2018. TERMS OF USE: The USER of these CAD drawings and related information is authorised to reproduce and distribute exact copies or exact extracts of these CAD drawings for the sole purpose of detailing, specifying, using, and promoting the use of Winstone Wallboards Ltd products and systems. It is the USER's responsibility to ensure full building performance specifications and to ensure specification and installation of GIB® products and systems are in accordance with Winstone Wallboards Ltd GIB® publications. Appropriate expert advice should always be obtained to ensure suitability of these drawings for your specific application. See www.gib.co.nz for full terms of use. The USER is deemed to accept the terms of use.



© Copyright 2018 Winstone Wallboards Ltd

All Dimensions are to be site checked before construction and installation



Weatherline®

Horizontal Sheet Joint at Concrete Mid Floor with Flexible Control Joint

File: GWL027 Horizontal Sheet Joint at Concrete Mid Floor with Flexible Control Joint	
Issue: 1	
Scale: 1 : 5	Reference
Date: 18 May 2026	GWL027

Two-way FRR – timber frame external wall

Specification	Performance	Specifications
GWTP 120	FRR -/120/120	Lining 2 x 13mm GIB Weatherline® both sides LB/NLB NLB

FRAMING

Stud size: 90mm minimum. Framing to comply with:

- NZBC B1 – Structure: AS1 Clause 3 – Timber (NZS 3604) or VM1 Clause 6 – Timber (NZS 3603).
- NZBC B2 – Durability: AS1 Clause 3.2 – Timber (NZS 3602).
- Studs at 600mm centres maximum.
- Nogs at 1350mm centres maximum.

INSULATION

Inclusion of insulation is optional and depends on the building's thermal performance requirements. Mineral wool, glass wool or polyester fibrous insulation materials are acceptable.

SHEATHING

Both sides – 2 layers of 13mm GIB Weatherline® sheet fixed vertically. Use full height sheets where possible. All sheet joints and edges must be formed over solid framing and staggered between layers. Sheet joints are touch fitted.

FASTENING SHEATHING

Fasteners

Inner Layer: 41mm x 6g GIB® Grabber® Ceramic Coated High Thread Screws.

Outer Layer: 63mm x 8g GIB® Grabber Ceramic Coated High Thread Screws.

Maximum fastener centres

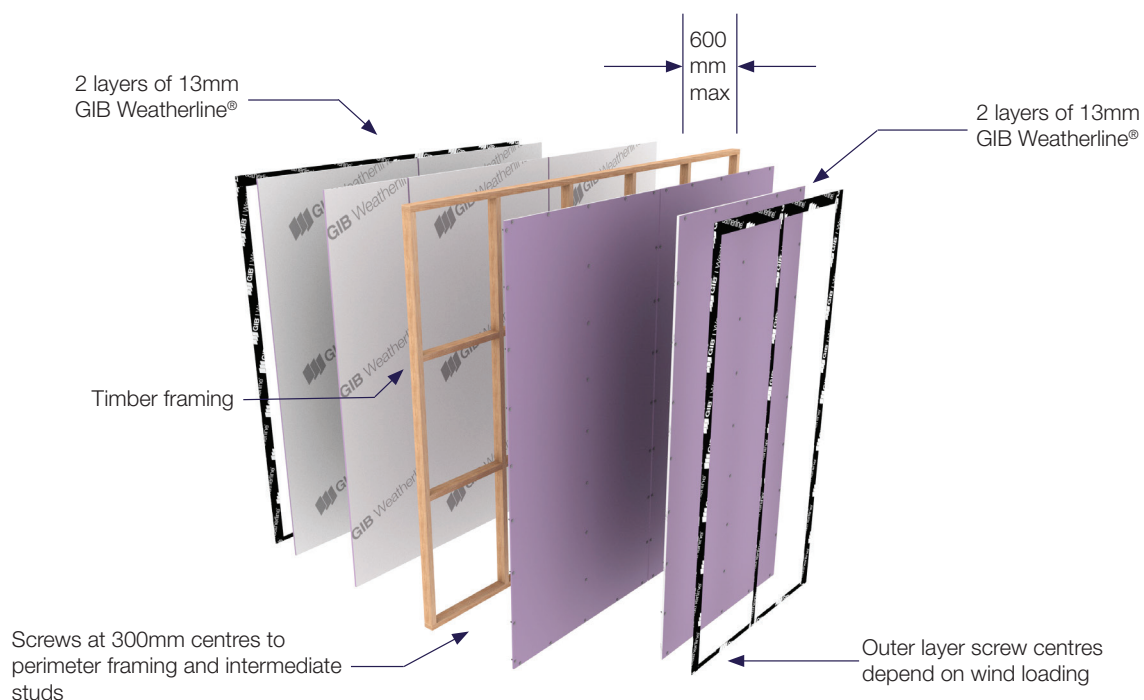
Place fasteners at 300mm centres around the sheet perimeter and intermediate studs.

Note that outer layer GIB Weatherline® perimeter and intermediate fasteners are commonly at closer centres depending on Wind Loading requirements.

Place fasteners at 12mm from bound sheet edges and 18mm from sheet ends and cut edges.

JOINTING

No plaster stopping required. Unless the entire surface is protected with a self-adhesive WRB, all joints and screw fixings must be taped with GIB Weatherline® Flashing Tape. No tape is required over mid-sheet fasteners under a structural cavity batten.



Two-way FRR – steel frame external wall

Specification	Performance	Specifications
GWSP 120	FRR -/120/120	Lining 2 x 13mm GIB Weatherline® both sides LB/NLB NLB

FRAMING

Minimum steel stud dimensions to be 92 x 34mm x 0.55 BMT with a 6mm return. Minimum steel channel dimensions to be 92 x 30mm x 0.50 BMT.

Steel stud and channel must be a minimum BMT of 0.75mm if the wall is to be subjected to wind loads.

Top and bottom channels are fixed to the floor and ceiling in true alignment.

Stud spacing at 600mm centres maximum.

Place studs to allow the nominated expansion gap at the top of the frame.

The studs are held in place by the “grip” of the channels. Otherwise detailing of steel wall framing to support wind loads and the external cladding is by specific engineering design, allowing for an expansion tolerance equal to 0.5% of wall height.

INSULATION

Inclusion of insulation is optional and depends on the building's thermal performance requirements. Mineral wool, glass wool or polyester fibrous insulation materials are acceptable.

SHEATHING

Both sides – 2 layers of 13mm GIB Weatherline® sheet fixed vertically. Use full height sheets where possible. All sheet joints and edges must be formed over solid framing and staggered between layers. Sheet joints are touch fitted.

FASTENING SHEATHING

Fasteners

Inner Layer: 32mm x 8g GIB® Grabber® Ceramic Coated Drill Point Screws.

Outer Layer: 47mm x 8g GIB® Grabber Ceramic Coated Drill Point Screws.

Maximum fastener centres

Place fasteners at 300mm centres to all studs.

Note that outer layer GIB Weatherline® perimeter and intermediate fasteners are commonly at closer centres depending on Wind Loading requirements.

Place fasteners at 12mm from bound sheet edges and 50mm from sheet ends.

JOINTING

No plaster stopping required. Unless the entire surface is protected with a self-adhesive WRB, all joints and screw fixings must be taped with GIB Weatherline® Flashing Tape. No tape is required over mid-sheet fasteners under a structural cavity batten.

