IBS RigidRAP®-XT
Installation Guide

CodeMark™ CM70091

THREE GREEN TICK APPROVED

MAY 2022

Contents

NZBN 9429000097253

IBS RigidRAP®-XT Product Details			
L x W x Thickness (mm)	**Weight (kg)**	**IBS Product Code**	**GTIN**
2440 x 1196 x 18	17	RRAPXT182412	09421028769891
2745 x 1196 x 18	19	RRAPXT182712	09421028769907
3050 x 1196 x 18	22	RRAPXT183012	09421028769914

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1. Introduction

This document is intended for designers and installers to ensure that IBS RigidRAP®-XT (rigid air panel) is specified and installed correctly. IBS RigidRAP-XT meets the New Zealand Building Code (NZBC) requirements for rigid underlays and is suitable for wind zones up to and including extra high as defined in NASH standard Part Two: 'Light Steel Framed Buildings'.

1.1 IBS RigidRAP®-XT Intended Use

Intended use for IBS RigidRAP®-XT are:

1. External wall bracing element when used in conjunction with a specific fixing system
2. Thermal break for steel frames

Read the following sections for more information on each intended use.

1.2 What is IBS RigidRAP®-XT?

IBS RigidRAP®-XT is an 8mm OSB3 (Oriented Strand Board) which has been manufactured specifically for New Zealand, for use as a bracing element and/or rigid air barrier. IBS RigidRAP®-XT is the only triple layer rigid air barrier system available in New Zealand and comes laminated with a watertight wall underlay.

RigidRAP®-XT is not only a temporary weather cladding, but it also provides bracing. IBS RigidRAP®-XT has a 10mm lightweight rigid foam fixed to the rear of the board. This gives IBS RigidRAP®-XT a R-Value of 0.41.

It replaces the traditional building wrap, and when compared to similar products it is more cost effective, easy to install and is lightweight.

As an OSB3 panel manufactured in accordance with EN13986:2004, it is suitable for use in humid conditions where the panel in-service moisture content does not exceed 20%.

Compliance with the NZ Building Code (NZBC) is established through Product Certification (CodeMark).

Compliance with NASH standard Part Two: 'Light Steel Framed Buildings' (or NZS 3404:2009 - Steel Structures) IBS RigidRAP®-XT meets all the requirements of Table 23 of E2/AS1 from the compliance document for the NZ Building Code (NZBC).

1.3 What is a Rigid Air Barrier?

A rigid air barrier is an underlay which acts as a barrier against air pressure and water infiltration from the outside to the inside of the building. They are easy to install, durable and is a solid substrate for the installation of flashing tape to window and door openings and exterior penetrations.

1.4 Benefits of IBS RigidRAP®-XT

As designers, builders and homeowners move towards more sustainable and durable materials and systems, the benefits of IBS RigidRAP®-XT are becoming more relevant.

Key attributes and benefits

- Reduces building time
- Lightweight material, simple and easy to install
- Provides rapid moisture protection of the building
- Allows for interior construction to continue
- Provides a greater level of site security
- Reduces structural timber movement
- Provides a rigid structure
- Provides weather tightness for the building.

2. Best Practice

2.1 Designer/Installer Skill Level

Where IBS RigidRAP®-XT is specified and/or installed, the designer/installer shall have the appropriate skills and knowledge of the product and access to all IBS RigidRAP®-XT technical information.

Visit www.ibs.co.nz for more information.

2.2 Health and Safety

When installing IBS RigidRAP®-XT take all steps to ensure your safety and the safety of others.

- Ensure there is adequate ventilation or mechanical dust extraction when cutting or drilling IBS RigidRAP®-XT
- Ensure IBS RigidRAP®-XT is well supported when cutting or drilling the panel
- Appropriate close fit clothing shall be worn at all times
- Wear eye, ear and footwear protection when working with IBS RigidRAP®-XT.

Site considerations

- Selection of the right equipment for working from a height
- Safe working with ladders and stepladders
- Maintain a clear unobstructed work area.

For further information refer to:

- The Absolutely Essential Health and Safety Toolkit
- WorkSafe New Zealand Quick Guide.

2.3 Sawing, Drilling, Shaping

IBS RigidRAP®-XT panels may be sawn and shaped in the same way as solid wood, although carbide tipped cutters are recommended. If panels are to be installed in a visible location, ensure clean-cut edges with sharp tools, using a backing block to minimize break out. The feed rate shall be slower than for solid wood.

2.4 Install Service Penetration

Refer to IBS RigidRAP®-XT approved selection of flexible flashing tapes - see 3.7. Flashing of pipe and service penetrations shall be carried out in accordance with the following:

- Pipe penetrations through IBS RigidRAP®-XT must have a minimum of 5° slope to the outside.
- Flexible flashing tape must be installed like a bandage with a minimum of 25 mm cover around the pipe and 100 mm minimum surface adhesion to IBS RigidRAP®-XT panel surrounding the penetration.
- A hole 100 x 100 mm maximum within an envelope of 100 mm from top and vertical edges and 200 mm from the bottom of the IBS RigidRAP®-XT panel will not affect the bracing capacity. Multiple holes of this size are permitted provided the centre lines of the holes are not closer than 600 mm.
- One hole of up to 400mm x 400mm located between the studs and within the envelope defined above, with nogging or dwang framing the hole and fixing of the OSB to the framing as per the requirements for the top and bottom plate is acceptable.

2.5 Install Window Opening

Refer to IBS RigidRAP®-XT approved selection of flexible flashing tapes - see 3.7.

Flashing window openings shall be carried out in accordance with WANZ Guide to E2/AS1 (6), substituting building wraps for IBS RigidRAP®-XT.

- Cut the flashing tape for the sill at least 200 mm wider than the opening.
- Fit the tape with the inner edge of the tape flush with the inside line of the framing and extend 100 mm up and down each jamb edge.
- Ensure the tape is well adhered to the surfaces and fitted tightly to each corner.
- Fully tape all window opening edges.

NOTE: All window tapes shall be used in accordance with the manufacturer's installation guide.

2.6 Handling and Storage

Correct storage and handling in transport is essential for the protection of IBS RigidRAP®-XT. The following simple principles shall be taken into account:

- Strapping and shrink wrap shall be removed immediately upon arrival at the installer's storage area or on site.
- IBS RigidRAP®-XT shall be laid flat on timber bearers. The spacings between the timber shall be no more than 800 mm.
- If several pallets are stacked on top of each other ensure the storage bearers are in true alignment.
- When stored outside, ensure there is sufficient clearance between the ground and IBS RigidRAP®-XT to prevent moisture transfer and allow air circulation. Cover with a waterproof tarpaulin.
- IBS RigidRAP®-XT must not be exposed to the weather for more than 90 days.
- When manually handling IBS RigidRAP®-XT ensure the panels are lifted in the central third.
- IBS RigidRAP®-XT shall be allowed to climatise to the site conditions for 48 hours prior to installation.
- IBS RigidRAP-XT shall not be exposed to the weather or ultraviolet light for more than 90 days during construction.

2.7 Finishing

A 20 mm ventilated cavity and the cladding/joinery system must be installed in which that it complies with the NZBC.

Installation of the cavity, cladding, joinery, etc must be in accordance with the relevant supplier and in accordance with the building consent, where applicable.

2.8 Quality Assurance

IBS recommends that installers record the installation of IBS RigidRAP®-XT. This may include:

- packing slips to show evidence of delivery
- written notes, and
- meaningful photos.

2.9 Supporting Information

This document must be read in conjunction with the:

- IBS Product Specification for IBS RigidRAP®-XT
- IBS Maintenance and Warranty for IBS RigidRAP®-XT

All other information is available at www.ibs.co.nz.

3. External Wall Bracing

3.1 Scope of Use

IBS RigidRAP®-XT may be used as a bracing element within the following scope:

In wind zones:

- Up to and including extra high as defined in NASH standard Part Two 2019 "Light Steel Framed Building"
- Up to 2.5 kPa ULS where the building is specifically engineered.

Building scope

- New buildings.
- In conjunction with concrete and timber subfloor applications that comply with the NZBC.
- With all cladding types that comply with NZBC.
- In conjunction with a drained and ventilated nominal 20mm cavity system.
- With aluminium joinery complying with the NZBC. IBS RigidRAP®-XT may be used as a bracing element in existing buildings, however in these cases IBS makes no claim as to the bracing value that will be achieved.
- Existing concrete and timber sub-floor structures where the designer and/or installer have assured themselves that the existing building is suitable for the intended building work.

3.2 Limitations

- Allow a minimum of 4 mm between panels both vertically and horizontally to accommodate dimension movement.
- Maximum spacings of wall studs must not exceed 600 mm centres.
- A proprietary 'Z' flashing must be installed at mid floor level where IBS RigidRAP®-XT is installed on multi levels.
- For wall heights greater than 3050 mm horizontal wall joints are permitted, provided the panel joint is over solid blocking of the same gauge as the studs.
- Other than mid floor level, all joints (vertical and horizontal) must be sealed with an IBS approved self-adhesive flashing tape as specified in section 3.7. IBS recommends 150 mm flashing tape or a

proprietary Z flashing for horizontal joints.
- Steel fixings and fastenings must be in accordance with table 4.1, NZS 3604: 2011.
- Do not install IBS RigidRAP®-XT if the building paper has delaminated from the OSB sheet.

When specifying IBS RigidRAP®-XT as a bracing element, the designer must take into account site specific conditions and the building with respect to, but not limited to, the following:

- Environmental (exposure) zone
- Wind zone
- Wall bracing table for wind and EQ demand
- Structural design loads
- Structural framing requirements
- Preparation of substrate
- External envelope
- Other materials likely to affect the performance of IBS RigidRAP®-XT.

3.3 IBS RigidRAP®-XT Wall Bracing System

Table 1 provides the bracing value for the different systems.

NOTE:

- For all bracing systems, no product substitution is allowed. Installation must be in accordance with these instructions. If these requirements are not met, IBS provides no assurance that the bracing capacity (claimed in this design and installation guide) will be achieved.
- The allowable racking resistances for the IBS RigidRAP®-XT systems are applicable to frames lined with IBS RigidRAP®-XT on one side only.
- Panels must always be installed vertically if used as a bracing sheet. Sheets can be installed horizontally if not used as a bracing element.
- Stud sizes and centres will vary depending on height load and loads ref: NZS 3604:2011.

The systems may be used on walls of lengths different to those in table 1 but is limited to:

- Wall lengths no greater than twice the tested system length.
- For walls greater than the tested system length multiply the length of the wall on a pro-rata basis, up to double the length of the system.
- A wall height less than 1.5 metres shall be referred

to a specific engineer design.

- A wall height less than 2.4 metres shall be rated as if they are 2.4 metres high.
- Panels higher than IBS RigidRAP®-XT 2440 mm must be fixed top plate to bottom plate. When walls are higher than 2440 mm, IBS RigidRAP®-XT 2745 or 3050 mm sheets can be used.
- A part sheet can be used but must be nogged and nailed as per specification. Minimum sheet size is 300mm.

Wall framing must comply with NASH Standard Part Two: 2019 'Light Steel Framed Buildings'.

3.4 IBS RigidRAP® Bracing Capacity Systems

Table 1

| The following table provides the bracing value for the different systems	Concrete Slab		Timber Floor	
	Wind	**EQ**	**Wind**	**EQ**
System 1: 600 mm x 2400 mm wall with FrameCAD® HDFA1 (or similar) Fixing 10g x 50mm Galv Csk Self Drilling Screw	63 BU/m	74 BU/m	63 BU/m	74 BU/m
System 2: 1200 mm x 2400 mm wall with FrameCAD® HDFA1 (or similar) Fixing 10g x 50mm Galv Csk Self Drilling Screw	107 BU/m	115 BU/m	107 BU/m	115 BU/m
System 3: 600 mm x 2400 mm wall with FrameCAD® HDFA1 (or similar) Fixing - 38mm Versapin Gripshank Coil Steel Nail	38 BU/m	36 BU/m	38 BU/m	38 BU/m
System 4: 1200 mm x 2400 mm wall with FrameCAD® HDFA1 (or similar) Fixing 38mm Versapin Gripshank Coil Steel Nail	53 BU/m	57 BU/m	53 BU/m	57 BU/m
System 5 - Timber frames: 600mm x 2400mm wall with GIB HandiBrac® Fixing 50mm x 2.8mm Galv nails	60 BU/m	70 BU/m	60 BU/m	70 BU/m
System 6 - Timber frames: 1200mm x 2400mm wall with GIB HandiBrac® Fixing 50mm x 2.8mm Galv nails	78 BU/m	71 BU/m	78 BU/m	71 BU/m

SYSTEM 1 - FIG 1

IBS RigidRAP®-XT 600 x 2400 MM WALL USING FRAMECAD HOLD DOWN® HDFA1 (or similar)

Wall construction:

- 89 x 41 x 0.75 G550 Steel Studs.
- 18 mm IBS RigidRAP®-XT panel one side. (8mm IBS RigidRAP OSB, 10mm Rigid Foam)
- Fixings - 10g x 50mm Galv Csk Self Drilling Screw at 150 mm centres around the perimeter.
- FRAMECAD® Hold down HDFA1 washer combined with hold down bracket and a M12 Anchor screw. Designed for steel Frames 0.75BMT - 1.55BMT (or similar).
- Tested on a concrete floor with M12 hold down bolts.

Wall framing must comply with:
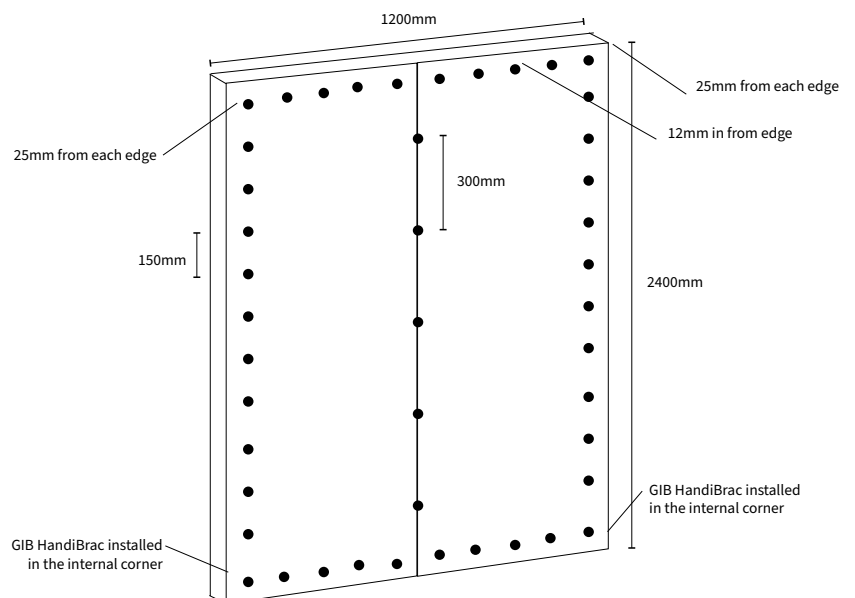NASH Standard Part Two: 2019 'Light Steel Framed Buildings'
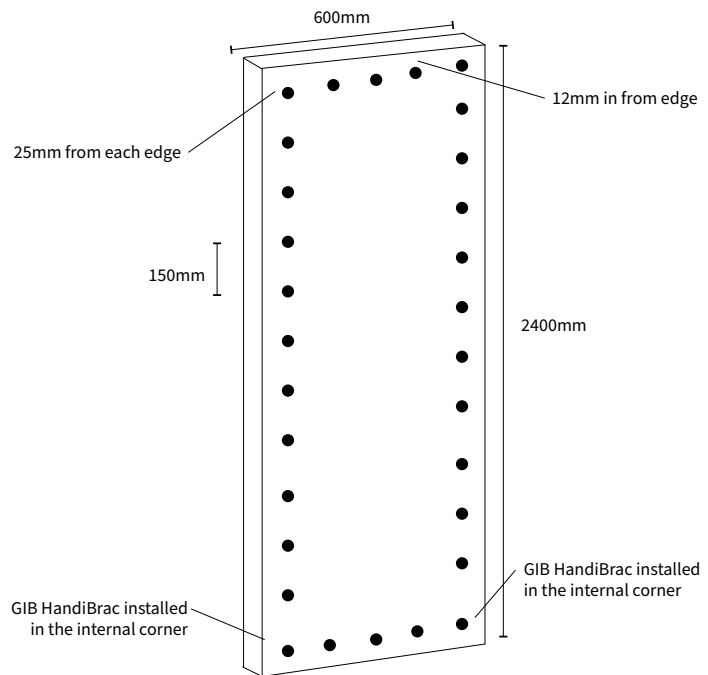
SYSTEM 2 - FIG 2

IBS RigidRAP®-XT 1200 x 2400 MM WALL USING FRAMECAD HOLD DOWN® HDFA1 (or similar)

Wall construction:

- 89 x 41 x 0.75 G550 Steel Studs.
- 18 mm IBS RigidRAP®-XT panel one side (8mm IBS RigidRAP OSB, 10mm Rigid Foam)
- Fixings - 10g x 50mm Galv Csk Self Drilling Screw at 150 mm centres around the perimeter.
- FRAMECAD® Hold down HDFA1 washer combined with hold down bracket and a M12 Anchor screw. Designed for steel Frames 0.75BMT - 1.55BMT (or similar).
- Tested on a concrete floor with M12 hold down bolts.

Wall framing must comply with:
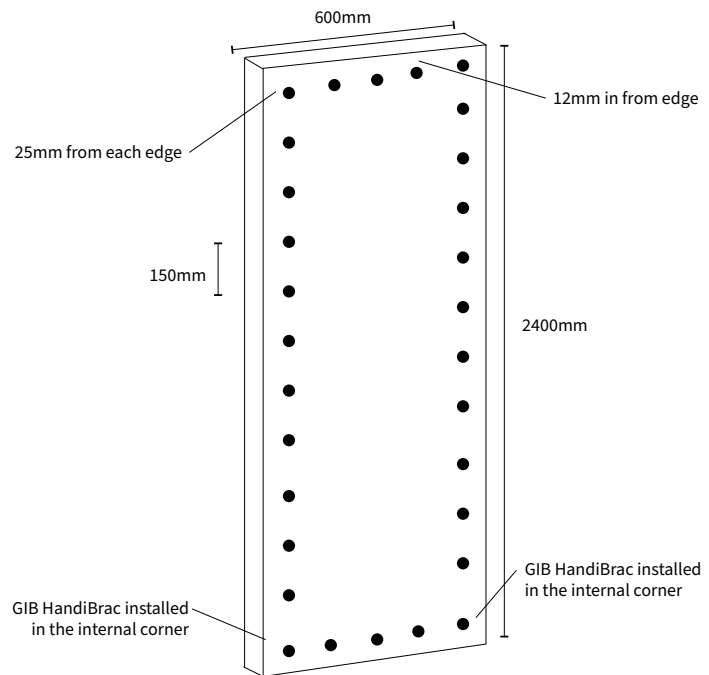NASH Standard Part Two: 2019 'Light Steel Framed Buildings'

SYSTEM 3 - FIG 3

IBS RigidRAP®-XT 600 x 2400 MM WALL USING FRAMECAD HOLD DOWN® HDFA1 (or similar)

Wall construction:

- 89 x 41 x 0.75 G550 Steel Studs
- 18 mm IBS RigidRAP®-XT panel one side (8mm IBS RigidRAP OSB, 10mm Rigid Foam).
- Fixings - 38mm Versapin Gripshank Coil, Steel Nails at 150mm Centres around the perimeter.
- FRAMECAD® Hold down HDFA1 washer combined with hold down bracket and a M12 Anchor screw. Designed for steel Frames 0.75BMT - 1.55BMT as per manufacturer's specifications (or similar).
- Tested on a concrete floor with M12 hold down bolts.

Wall framing must comply with: NASH Standard Part Two: 2019 'Light Steel Framed Buildings'

SYSTEM 4 - FIG 4

IBS RigidRAP®-XT 1200 x 2400 MM WALL USING FRAMECAD HOLD DOWN® HDFA1 (or similar)

Wall construction:

- 89 x 41 x 0.75 G550 Steel Studs.
- 18 mm IBS RigidRAP®-XT panel one side (8mm IBS RigidRAP OSB, 10mm Rigid Foam).
- Fixings - 38mm Versapin Gripshank Coil, Steel Nails at 150mm Centres around the perimeter
- FRAMECAD® Hold down HDFA1 washer combined with hold down bracket and a M12 Anchor screw. Designed for steel Frames 0.75BMT - 1.55BMTas per manufacturer's specifications (or similar).
- Tested on a concrete floor with M12 hold down bolts.

Wall framing and bottom plate fixed in accordance with the requirements of: NASH Standard Part Two: 2019 'Light Steel Framed Buildings'.
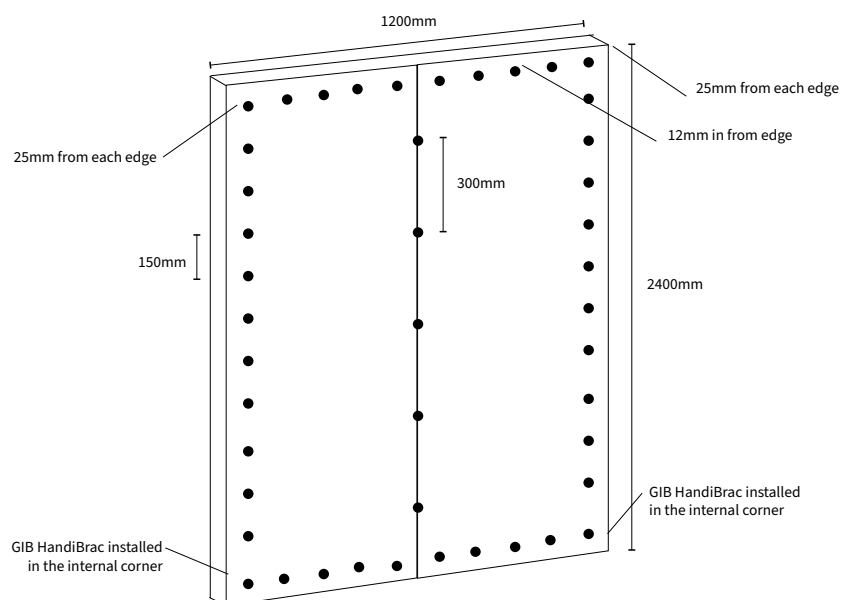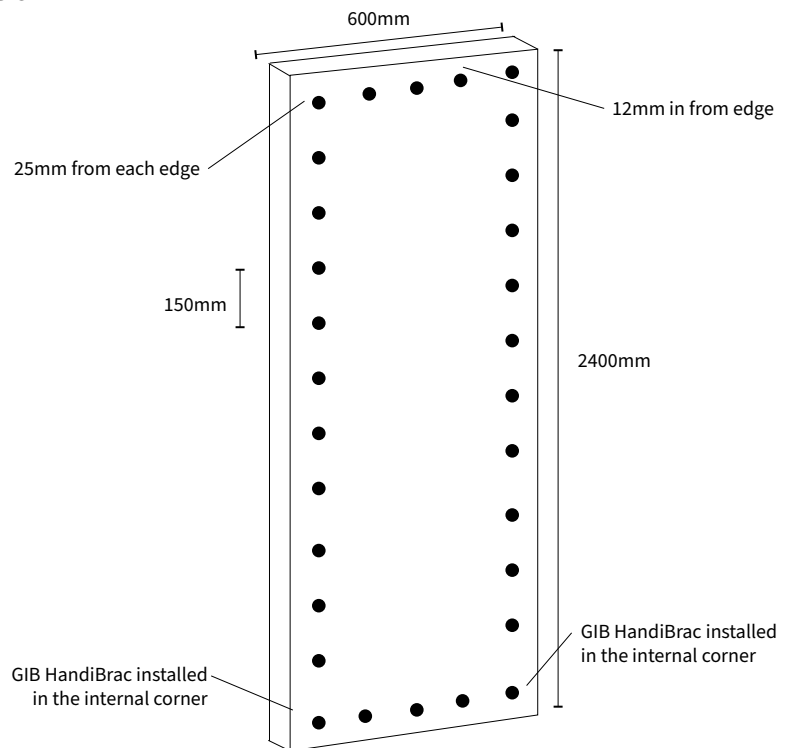
SYSTEM 5 - FIG 5

IBS RigidRAP-XT® 600 x 2400 MM WALL USING GIB HANDIBRAC®

Wall construction:

- 90 x 45 MSG8 studs.
- 8 mm IBS RigidRAP-XT® panel one side.
- 50 x 2.8 mm galv clouts at 150 mm centres around the perimeter.
- GIB HandiBrac® hold down brackets fixed to each end-to-end studs and to bottom plate with concrete hold downs as per manufacturer's specifications.
- Tested on a concrete floor with M12 hold down bolts.
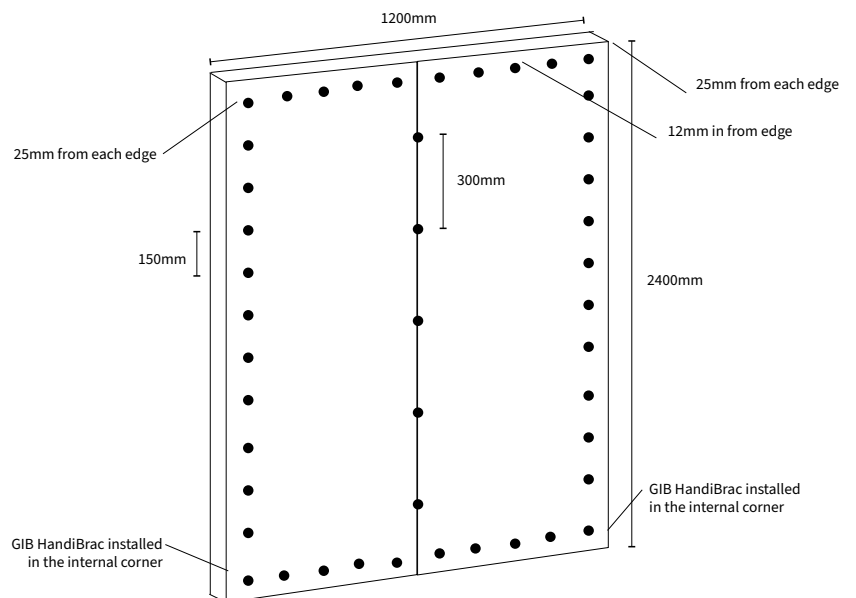
FIG 5

600mm

12mm in from edge

25mm from each edge

150mm

2400mm

GIB HandiBrac installed in the internal corner

GIB HandiBrac installed in the internal corner

SYSTEM 6 - FIG 6

IBS RigidRAP-XT® 1200 x 2400 MM WALL USING GIB HANDIBRAC®

Wall construction:

- 90 x 45 MSG8 studs (600 mm centres) plates.
- 8 mm IBS RigidRAP® panel one side.
- 50 x 2.8 mm galv clouts at 150 mm centres around the perimeter.
- GIB HandiBrac® hold down brackets fixed to each end-to-end studs and to bottom plate with concrete hold downs as per manufacturer's specifications.
- Tested on a concrete floor with M12 hold-down bolts.

FIG 6

1200mm

25mm from each edge

12mm in from edge

25mm from each edge

300mm

150mm

2400mm

GIB HandiBrac installed in the internal corner

GIB HandiBrac installed in the internal corner

3.5 Top and Bottom Plate

Allowable uplift resistance (kN/rafter)	Fastener spacing (mm) top and bottom plates
7.5	75
8.5	40
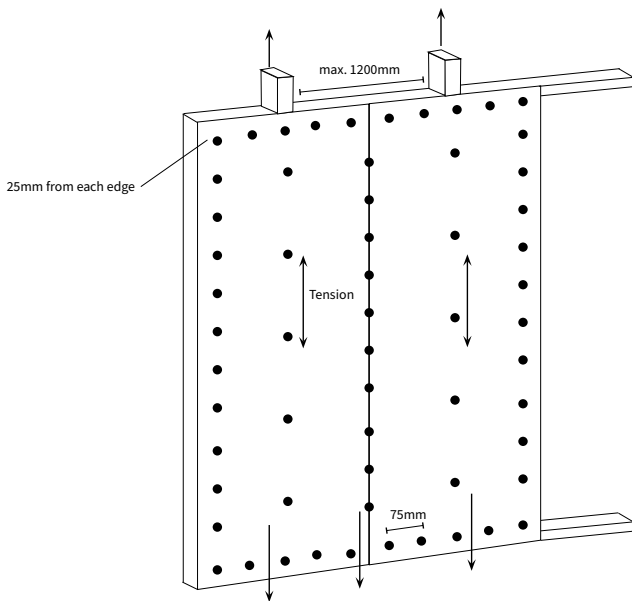
Bottom plate to floor or sub floor connection as per NZS 3604:2011.
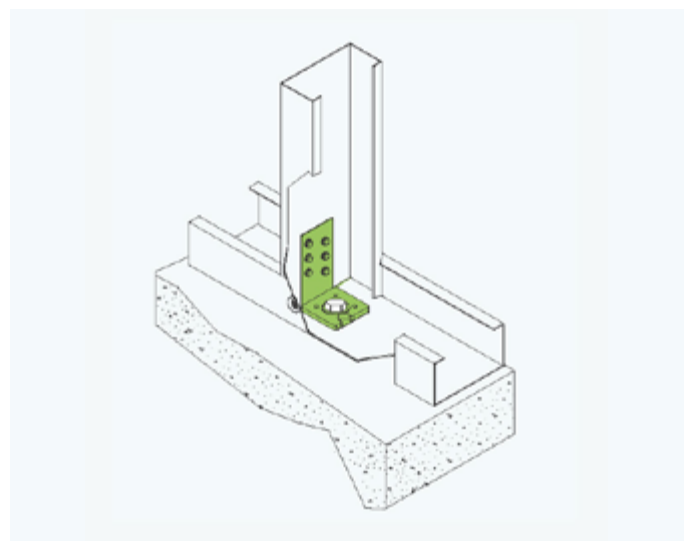
3.6 Fixings

General

| Fixing	Exposure Zone
10g x 50mm Galv Csk Self Drilling Screw	Exposure zone B & C only
38mm Versapin Gripshank Coil	Exposure zone B & C only
Stainless Steel Nails / Screws	Exposure zone D only

Bottom Plate Fixing

Bottom Plate Fixing	Exposure Zone
FRAMECAD® HoldDown Use supplied hold down bolts	Steel fixing as per table 4:1 NZS3604:2011
Scottsdale Hold Down 90 Degree Bracket	Steel fixing as per table 4:1 NZS3604:2011
NASH Type E Hold Down	Steel fixing as per table 4:1 NZS3604:2011
GIB HandiBrac® Use supplied hold-down bolts	Steel fixing as per table 4:1 NZS3604:2011

Bottom Plate Fixing Details – Base Detail - FRAMECAD® HoldDown HDFA1
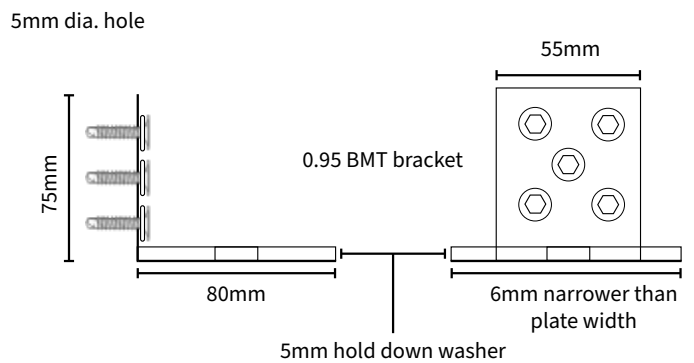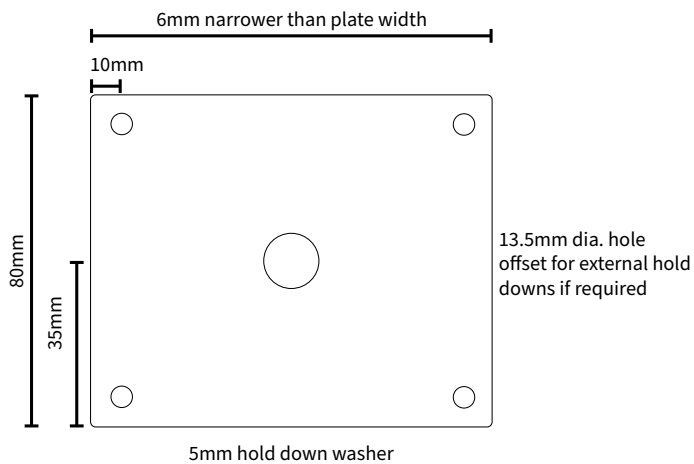

Position IBS RigidRAP®-XT as cloase as practicable to the internal edge of the bottom plate.
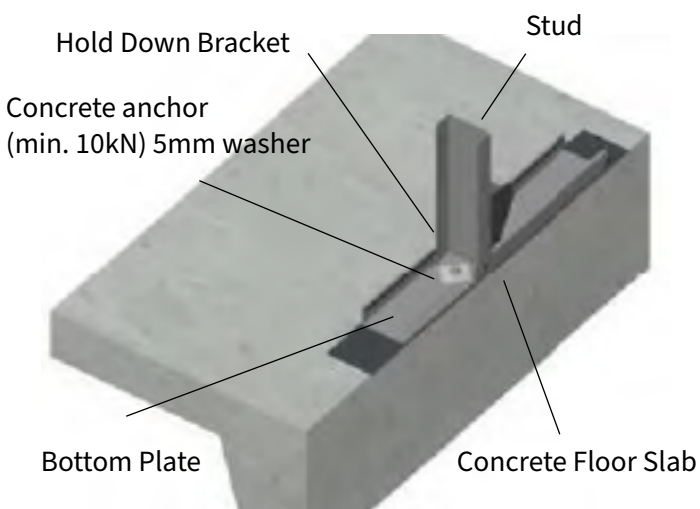
Scottsdale HoldDown 90 Degree Bracket
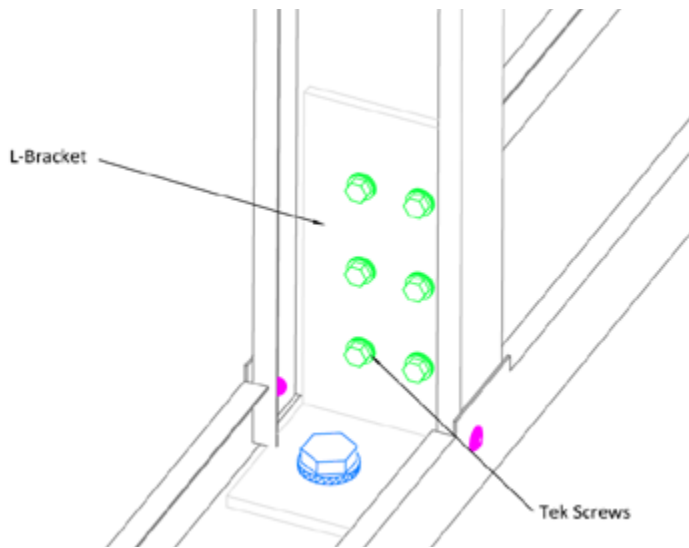
Position IBS RigidRAP®-XT as close as practicable to the internal edge of the bottom plate.
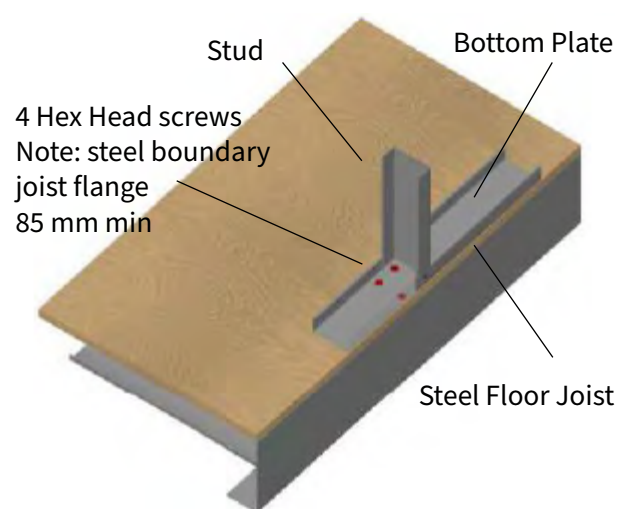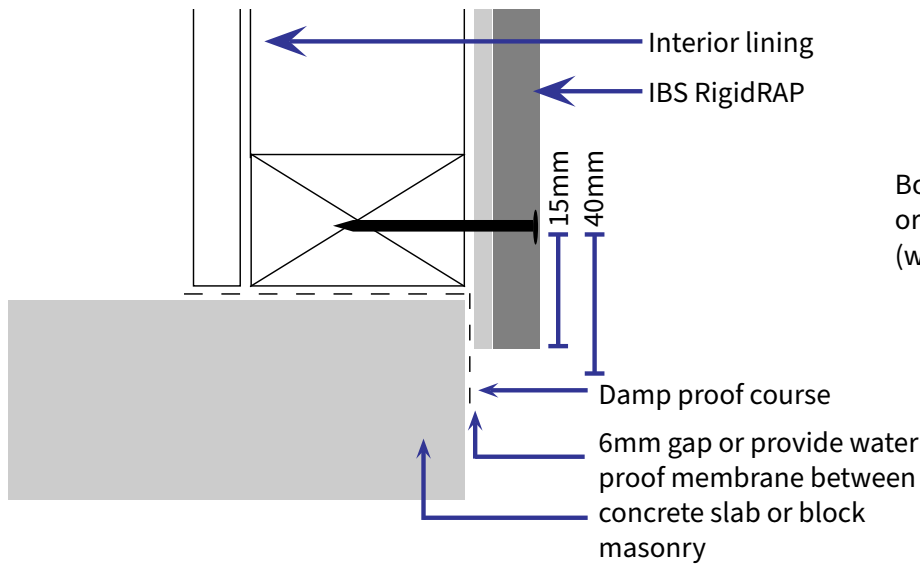
NASH Type E Tie Down Assemblies

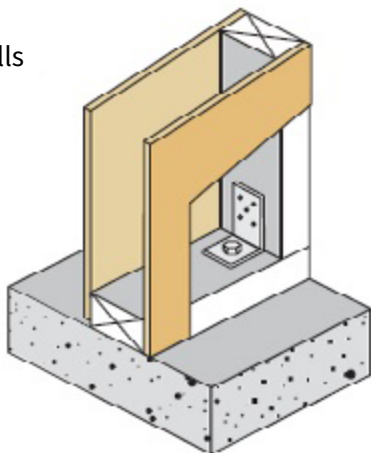## NASH Type E Concrete Hold Down

NASH Type E Timber Floor Joist Tie Down

Bottom Plate Fixing Details – Base Detail

Interior lining

IBS RigidRAP

15mm
40mm

Bottom plate detail to concrete
or timber floor
(with 25 mm x 1 mm strap)

Damp proof course

6mm gap or provide water
proof membrane between
concrete slab or block
masonry

GIB HandiBrac® Installation – Concrete Floor

Internal walls

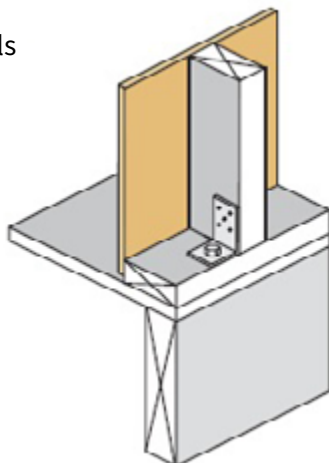External walls

Position GIB HandiBrac® at the stud/plate junction.
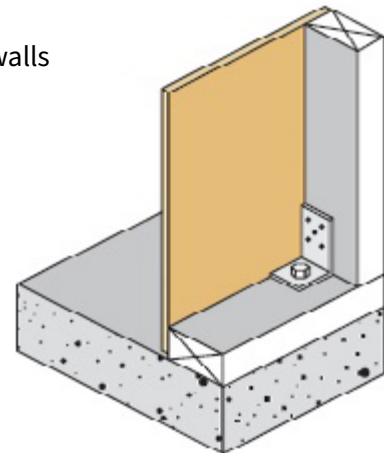
Position GIB HandiBrac® as close as practicable to
the internal edge of the bottom plate.

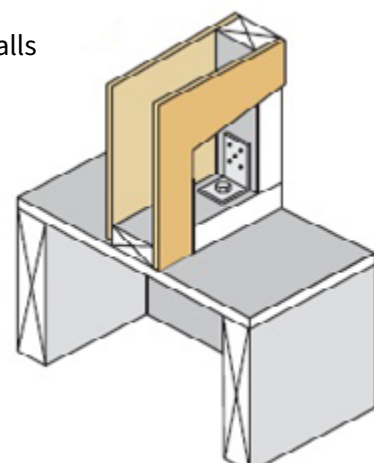## GIB HandiBrac® Installation – Timber Floor

External walls

Internal walls

Position GIB HandiBrac® in the centre of the perime-
tre joist or bearer.

Position GIB HandiBrac® in the centre of the floor
joist or full depth solid block.

3.7 Joint Sealing and Window Tape

The following tapes may be used to seal panels:

Approved Joint and Window Tape (minimum face cover 50 mm)	
Thermakraft Premium Joining Tape 75mm wide x 23m long	https://www.thermakraft.co.nz/products/tapes-accessories/premium-joining-tape
3M™ All Weather Flashing Tape 8067	https://www.3mnz.co.nz/3M/en_NZ/p/d/b40068318/
TESCON EXTORA IBS-OS (Pro Clima)	https://proclima.co.nz/tescon-extora/
SUPER-STICK (Marshall Innovations)	https://www.mwnz.com/product/superstick-door-window-flashing-tape
Hydro Tape (masons 75 mm)	https://mpb.co.nz/product/hydro-window-flashing-tape/
Masons 40 Below	https://mpb.co.nz/product/40-below/
Watertight	https://technowrapping.co.nz/watertight-products/
FrameFlash	https://www.technoinsulation.com/window-flashing-tapes
DriStud Cool Tape	https://www.drispace.co.nz/product/dristud-cool-window-flashing
EUROBAND 560	https://www.frameprotection.co.nz/
SIGA Wigluv	https://www.siga.swiss/

The tape is to be installed in accordance with the specific supplier instructions.

All joints and penetrations must be sealed including:

• Vertical and horizontal joints
• External and internal joints
• Penetrations
• Window and door joinery

Where sealing a joint, ensure the IBS RigidRAP®-XT joins are centred under the tape joint. Use a 25 mm hard PVC roller to ensure full adhesion.

4. Rigid Air Barrier

4.1 Scope of Use

Applied to the outer face of the exterior framing, IBS RigidRAP®-XT will minimise the pressure difference across the wall construction, thereby forming part of a weathertight external envelope.

When installed in accordance with Section 4, IBS RigidRAP®-XT performs the function of a rigid air barrier with bracing capacity.

4.2 Thermal Break

As per the New Zealand Building Code, thermal breaks are required to be fixed to the exterior of the steel framing to comply with E3 and H1. A thermal break with a minimum R-Value of < 0.25 C/W is required to avoid thermal bridging.

RigidRAP®-XT has an R-Value of 0.39 exceeding these minimum requirements.

IBS RigidRAP®-XT AS A NON-STRUCTURAL RIGID AIR BARRIER - Thermal Break only

Where RigidRAP®-XT is to be used as a rigid air barrier without a bracing function then the scope of use is increased to include lightweight steel framing provided that a thermal break is installed.

IBS RigidRAP®-XT panels shall be nailed off at a minimum of 300 mm centres around the perimeter and through the body of the sheet. Rigidity of the panels will be maximised if the panels are nailed off around the perimeter at 150 mm. All other installation details are to be in accordance with section 3 (IBS RigidRAP®-XT as a bracing element).

Building wrap is not required where all joints (vertical and horizontal) are to be sealed with an IBS approved self-adhesive "flashing tape" (see 3.7).

The IBS RigidRAP®-XT must be allowed to acclimatise for at least 48 hours prior to installation.

When specifying IBS RigidRAP®-XT as a rigid air barrier, the designer must take into account site specific conditions and the building with respect to, but not limited to, the following:

• Environmental (exposure) zone
• Wind zone

- Wall bracing table for wind and EQ demand
- Structural design loads
- Structural framing requirements
- Preparation of substrate
- External envelope
- Other materials likely to affect the performance of IBS RigidRAP®-XT.

4.3 Steel Framing

All steel framing sizes and set outs must comply with the NASH standard Part Two: 'Light Steel Framed Buildings' (or NZS 3404:2009 - Steel Structures).

5. Further Information

5.1 What is OSB3?

OSB3 (Oriented Strand Board 3) is a moisture resistant, structural wood panel. Engineered in Germany from environmentally sustainable sources, it consists of three layers of wood strands bonded together with heat-cured adhesives. Each layer is orientated at right angles to the adjacent layer creating a strong, dimensionally stable panel that resists delamination and warping. The absence of natural imperfections such as knots provides certainty of performance.

5.2 What is wall underlay?

The product consists of a micro-porous water-resistant polypropylene film laminated between two layers of spunbonded polypropylene (synthetic wall underlay.

5.3 IBS RigidRAP® -XT CodeMark explained

IBS is the certificate holder of CodeMark for IBS RigidRAP®. CodeMark is third party certified, allowed for under the Building Act 2004. This means that under law, a Building Consent Authority must accept the specification of IBS RigidRAP® (the panel and the installation details) as complying with the NZ Building Code, providing that all conditions of the certificate have been met.

Achieving CodeMark also focuses on the quality of IBS RigidRAP®-XT panels and the quality and competence of the support provided by IBS. This means that designers and installers can use IBS RigidRAP® with confidence that, providing all instructions are followed, IBS RigidRAP®-XT will result in building work complying with the NZ Building Code.

5.4 Restricted Building Work

In some applications Restricted Building Work (RBW) provisions will apply. It is the responsibility of the designer and installer to ensure that they have met their obligations under these provisions.

6. Additional Resources

For compliance information of IBS RigidRAP®-XT refer to:

- IBS Product Specification
- IBS CAD drawings

For all other information refer to ww.ibs.co.nz.

7. Limitations

The information contained in this document is current as at July 2021 and is based on data available to IBS Sustainable Building Products at the current time.

All photographic images are intended to provide a general impression only and shall not be relied upon as an accurate example of IBS RigidRAP®-XT products installed in accordance with this document.

IBS reserves the right to change the information contained in this document without prior notice. It is your responsibility to ensure that you have the most up to date information available, including at the time of applying for a building consent. You can call 0800 367 759 or visit www.ibs.co.nz to obtain current information.

IBS has used all reasonable endeavours to ensure the accuracy and reliability of the information contained in this document. However, to the maximum extent permitted by law, IBS assumes no responsibility or liability for any inaccuracies, omissions, or errors in this information nor for any actions taken in reliance on this information.

8. 10mm Rigid Foam

EXPOL platinum board is a lightweight expanded polystyrene (EPS) board that is easy to handle and easy to install. EXPOL insulation products are made in New Zealand, using an environmentally responsible manufacturing process and are 100% recyclable. 98% of EXPOL insulation product is actually trapped air. The manufacturing process of EXPOL products uses no CFCs or HCFCs.

9. Frequently Asked Questions

Q. How long can IBS RigidRAP-XT be left exposed for?

A. IBS RigidRAP-XT can be left exposed to the weather for up to 90 days.

Q. Do I need to leave an expansion gap between sheets?

A. IBS RigidRAP-XT is designed for a 2mm gap to be left around the perimeter of all sheets.

Q. Do I need to tape all the joins?

A. Yes, all joins vertical and horizontal need to be taped.

Q. How do you join mid floor sheets?

A. All horizontal mid floor joins need to have a Z flashing.

Q. Do all horizontal joins need a Z Flashing?

A. No, you can use 150mm tape on all other horizontal joins.

Q. Do nails and screws need to have tape on them?

A. No, you do not need to tape over them unless they penetrate the board. All fixings shall finish flush with the board.

Q. Can IBS RigidRAP-XT be used as bracing?

A. Yes, IBS RigidRAP-XT has been tested as a bracing element. Details are listed in this installation guide.

Q. Do I need to seal cut edges?

A. Yes, whenever IBS RigidRAP-XT is cut you need to seal the cut edge.

Q. Do I need to install sheets vertically?

A. Yes, when used as a bracing element, all sheets need to be installed vertically. If using IBS RigidRAP-XT as a wrap only, sheets can be installed horizontally as well.

10. CodeMark Certificate

CODEMARK™

PRODUCT CERTIFICATE

IBS RigidRAP®-XT

BUREAU VERITAS

CERTIFICATE NO: CM70091 Rev1
Date of issue: 22 June 2022

1   CERTIFICATE HOLDER DETAILS

IBS Building Products

Independent Building Supplies Ltd
1/7 Fraser Road,
Mt Wellington, Auckland 1072
New Zealand

Email: info@ibs.co.nz
Ph: 0800 367 759
www.ibs.co.nz

IBS BUILDING PRODUCTS

2   PRODUCT CERTIFICATION BODY

Bureau Veritas Australia Pty Ltd
3/435 Williamstown Road
Port Melbourne VIC 3207
Australia

Ph: 1800 855 190
www.bureauveritas.com.au
Bureau Veritas Australia Pty Ltd

The complaints process for this certificate
can be found here:
www.bureauveritas.com.au/your-feedback

KEY INFORMATION

3   SUMMARY OF DESCRIPTION OF BUILDING METHOD OR PRODUCT

IBS RigidRAP®-XT is an 8mm OSB panel product faced with a laminated synthetic building wrap and with 10mm lightweight rigid foam on the rear of the panel.

Continuation of description can be found in item 9. Supporting information about Description of Building Product or Method.
Matters that should be taken into account in the use or application of the building method or product can be found in item 6. Conditions and Limitations of Use.

4   SUMMARY OF INTENDED USE OF BUILDING METHOD OR PRODUCT

IBS RigidRAP®-XT is a rigid air barrier and bracing element and provides temporary protection from the weather during construction. It contributes thermal resistance to the wall and incorporates a thermal break for use with light steel framing. It is suitable for use on new and existing steel framed or timber framed buildings founded on either a concrete floor slab or timber subfloor. When all joints are sealed with a flashing tape, no flexible wall underlay is required.

Continuation of intended use can be found in item 8. Supporting information about intended use of Building Product or Method.

5   BUILDING CODE PROVISIONS

The performance clauses of the New Zealand Building Code that are relevant to the intended use and with which the building method or product complies or contributes to (where used as part of a system).

B1 Structure: B1.3.1, B1.3.2, B1.3.3(a, b, f, h), B1.3.4
B2 Durability: B2.3.1(a), B2.3.2
E2 External moisture: E2.3.2 (contributes to), E2.3.5 (contributes to), E2.3.6 (contributes to), E2.3.7
E3 Internal moisture: E3.3.1 (contributes to)
F2 Hazardous building materials: F2.3.1
H1 Energy efficiency: H1.3.1 (contributes to), H1.3.2E (contributes to)

How the building method or product complies or contributes can be found in item 12. Basis for Certification. Any qualifications on the extent of that compliance can be found in item 6. Conditions and limitations of use.

This certificate is issued by an independent certification body accredited by JAS-ANZ, the product certification accreditation body appointed by the Chief Executive of the Ministry of Business, Innovation and Employment under the Building Act 2004.
The Ministry does not in any way warrant, guarantee, or represent that the building method or product that is the subject of this certificate conforms with the New Zealand Building Code, nor accept any liability arising out of the use of the building method or product.
The Ministry disclaims to the extent permitted by law, all liability (including negligence) for claims of losses, expenses, damages, and costs arising as a result of the use of the building method(s) or product(s) referred to in this certificate.

This certificate may only be reproduced in its entirety. It is advised to check that this certificate is currently valid and not withdrawn or suspended by referring to the Register of Product Certificates on the Building Performance website http://www.building.govt.nz.
CERTIFICATE V1.3

JAS-ANZ

11. IBS RigidRAP®-XT installation checklist

The below installation areas are considered critical to the successful installation of IBS RigidRAP®-XT. Using this sheet as a checklist during installation will aid in problem free product installation and long term product durability post construction.

Task	X when checked
Prior to Specification and Installation	
Read the IBS RigidRAP®-XT Installation Guide & have a hard copy on site	☐
Health and Safety	
Take all steps to ensure your safety and the safety of others (adequate ventilation and protection)	☐
Ensure IIBS RigidRAP®-XT is well supported when cutting or drilling the panel	
Install	
IBS RigidRAP®-XT panels with the polypropylene film laminated facing outwards	☐
Ensure clean-cut edges with sharp tools, using a backing block to minimize break out	
Joint Sealing and Window Tape	
Use an approved flashing tape in accordance with the specific supplier instructions (page 18)	☐
Ensure the IBS RigidRAP®-XT joins are centred under the tape joint (all joints and penetrations must be sealed)	☐
Service Penetration	
Service penetrations must be sealed using a flexible flashing tape	☐
Pipe penetrations through IBS RigidRAP®-XT must have a minimum of 5° slope to the outside	☐
Minimum of 25mm cover around the pipe and 100 mm minimum surface adhesion to IBS RigidRAP®-XT panel surrounding the penetration	☐
Window Opening	
Flashing window openings must be carried out in accordance with WANZ Guide to E2/ASI (6)	☐
Bracing Capacity	
IBS RigidRAP®-XT may be used as a bracing element within the required scopes detailed in the IBS RigidRAP®-XT Installation Guide (table 1, page 7)	☐
Installation must be in accordance with the instructions in the IBS RigidRAP®-XT Installation Guide (for all bracing systems, no product substitution is allowed)	☐
Handling and Storage	
Ensure correct storage and handling in transport for the protection of IBS RigidRAP®-XT	☐
Finishing	
A 20 mm ventilated cavity and the cladding/joinery system must be installed so that it complies with the NZ Building Code.	☐

NOTES:

Scan the QR code to view all RigidRAP®-XT documents.

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SUSTAINABLE BUILDING PRODUCTS