IBS EUROLine

Design & Installation Guide

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IBS
SUSTAINABLE BUILDING PRODUCTS

Welcome to Independent Building Supplies (IBS), your trusted partner in the New Zealand building industry. Since our inception in 1993, IBS has been dedicated to sourcing and providing the highest quality building materials from around the globe. As a family business with four generations active in the building industry in New Zealand, we bring a wealth of experience and a deep commitment to excellence.

One of the key aspects that set IBS apart is our commitment to innovation. We are constantly on the lookout for new and improved building materials that can enhance the efficiency and effectiveness of construction projects. Our team of experts works closely with suppliers to bring cutting-edge products to the New Zealand market, ensuring that our customers have access to the latest advancements in building technology.

But our commitment to excellence doesn't stop at our products. At IBS, we pride ourselves on providing unparalleled customer service. Our knowledgeable and friendly team is always on hand to offer expert advice and support, helping you choose the right materials for your project.

ABOUT IBS

At IBS, we recognise that the foundation of any great building project lies in the quality of the materials used. That's why we meticulously select our suppliers, ensuring that every product meets our stringent standards for durability, performance, and sustainability. Our extensive range of offerings includes everything from plywood and panels to flooring and cladding, all tailored to meet the diverse needs of the New Zealand market.

OUR PRODUCT RANGE

We seek to develop the most innovative, professional and profitable experience for our clients.
Our passion is for providing our customers with the best products, the best service, and the best experience

In addition to our exceptional product range and customer service, IBS is also dedicated to sustainability. We recognise the importance of protecting our environment and are committed to sourcing eco-friendly building materials. Our sustainable product offerings help reduce the environmental impact of construction projects, allowing our customers to build responsibly without compromising on quality or performance.

IBS is more than just a supplier of building materials; we are a partner in your success. Our comprehensive range of services includes everything from product sourcing and logistics to technical support and training. We work closely with our customers to understand their unique needs and provide tailored solutions that help them achieve their objectives.

Join the countless builders, contractors, and homeowners who trust IBS for their building material needs. Discover the difference that quality, innovation, and exceptional service can make in your next project. Choose Independent Building Supplies – your partner in building excellence for over 30 years.

- **IBS RigidRAP®**
- **IBS RigidRAP®- XT**
- **IBS EUROFloor**
- **IBS EUROLine**
- **IBS FIBRE® Range**
- **IBS Structural Ply**
- **IBS Builders Grade® Ply**
- **IBS Formply**
- **IBS Decorative Ply**
- **IBS PanelLine®**
- **IBS EUROLine**
- **IBS Softboard**
- **IBS Hardboard**
- **IBS Peg Board**
- **IBS Acoustic Panels**
- **IBS Mini Panels**

Contents

1. Introduction 6

1.1 Introduction 6
1.2 What is IBS EUROline 6
1.3 Scope 7
1.4 Sizes & Applications 7
1.5 Benefits 7
1.6 Intended Use 8
1.7 Supporting Info & Documents 8

2. Best Practice 10

2.1 Health & Safety 10
2.2 Handling & Storage 10
2.3 Cutting 11
2.4 Drilling 11

3. Durability 12

3.1 Compliance 12
3.2 Responsibility 12
3.3 Conditioning 13
3.4 Defects 13
3.5 Differing Installation 13
3.6 Prohibited Uses 13

4. Design 14

4.1 Check the Substrate 14
4.2 Framing 14
4.3 Frame Tolerances 14
4.4 Timber 15
4.5 Steel 15
4.6 Building Scope 15

5. Installation 16

5.1 Fixing IBS EUROLine 16
5.2 IBS EUROLine can be used in the following applications 16
5.3 Fixing IBS EUROLine to Concrete or Concrete Masonry 17
5.4 Internal Lining Installation 17
5.5 Vertical Installation (Wall Lining) 18
5.6 Horizontal Installation (Ceiling Lining) 18
5.7 IBS EUROLine as a Bracing Element 19
5.8 Timber Frames 20
5.9 Steel Frames 22
5.10 Smart Placement of Openings in Bracing Elements 24
5.11 Exposed Beam Ceiling 24
5.12 IBS EUROLine Pre-conditioning of sheets 25
5.13 Transform Timber Floors with EUROLine Overlays 25

6. Finishing 26

6.1 Coating IBS EUROLine 26
6.2 Step-by-Step: How to Finish OSB Board 26
6.3 Choose Your Finish 26

7. Care, Maintenance 27

8. Warranty 28

9. Technical Properties 31

10. Additional Resources 32

11. Frequently Asked Questions 33

12. Limitations 34

13. Installation Checklist 36

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1. Introduction

1.1 Introduction

IBS EUROLine, a high-quality, moisture-resistant, engineered structural wood panel. IBS EUROLine is an OSB product or Oriented Strand Board and is designed to provide a fresh wood appearance that can be painted, clear finished, or stained for various wood effects

It is produced using sustainable and renewable resources, ensuring a minimal environmental impact. The panel is constructed from three distinct layers of wood strands, which are carefully bonded together using heat-cured adhesives.

These layers are strategically oriented at right angles to one another, enhancing the overall strength of the panel.

Some of the key benefits include:

- ✓ **Moisture resistance:** Ensures durability and stability in high humidity environments
- ✓ **Strength and durability:** The three-layer construction with heat-cured adhesives provides exceptional resistance to delamination and warping
- ✓ **Versatility:** Ideal for use as wall linings, ceiling linings, factory linings, fruit bins, furniture, steel frame racking inserts, partitions, and hoardings
- ✓ **Easy installation:** Can be easily cut, drilled, and routered using conventional woodworking tools
- ✓ **Low formaldehyde emissions:** Contributes to a healthier indoor environment
- ✓ **Eco-Friendly Materials:** IBS EUROLine is made from sustainably sourced wood, ensuring that your building project is environmentally responsible. The use of renewable resources helps reduce deforestation and promotes responsible forest management.

Choose IBS EUROLine for your next building project and experience the difference in quality, performance, and sustainability. Transform your construction with a product that delivers exceptional results and peace of mind.

1.2 What is IBS EUROLine?

IBS EUROLine is a versatile engineered wood panel used for both load-bearing and non-load bearing internal linings, including walls, ceilings, and general applications. It is suitable for buildings that meet the NZ Building Code or where the existing structure is confirmed suitable by the designer and installer.

IBS EuroLine can function as a wall bracing element, ceiling, or internal lining. When specifying, ensure the intended use is covered by the products pass™ certification and consider factors like the building purpose, fire, moisture, acoustics, and the supporting structure.

1.3 Scope

IBS EUROLine – Scope of Use

Recommended Applications

- ✓ Internal wall and ceiling linings
- ✓ Flooring overlay (dry areas only)
- ✓ General interior fit-outs

Not Suitable For

- × Exterior use or wet areas (e.g. bathrooms, saunas, pools)
- × Marine environments or areas with persistent moisture
- × Flush plaster-stopped joints for painting or wallpapering
- × Do not install near any heat source such as ovens, cook tops, fireplaces etc

Product Features

- OSB/3 moisture-resistant structural panel
- Made from FSC-certified timber
- Available in 9, 12, and 18 mm thicknesses (2400 x 1200 mm)
- Strong, stable, and resists warping and delamination

Important Notes

- Must be protected from moisture during and after installation
- Apply a protective finish before occupancy
- Use only in well-ventilated, dry interior spaces

1.4 Sizes & Applications

TABLE 1 - IBS EUROLine Product Details

L x W x Thickness (mm)	Weight (kg)	IBS Product Code	GTIN
2400 x 1220 x 9	18.4	OSB092412	09421028761239
2400 x 1220 x 12	24.5	OSB122412	09421028769921
2400 x 1220 x 18	36.8	OSB182412	09421028769938

1.5 Benefits

✔ **Moisture Resistant**

Engineered to perform in high-humidity interior environments.

✔ **Strong & Durable**

Three-layer OSB construction resists warping and delamination.

✔ **Versatile Applications**

Ideal for walls, ceilings, partitions, hoardings, furniture, and more

✔ **Sustainable & Eco-Friendly**

Made from FSC-certified timber —minimising environmental impact

- ✔ **Attractive Finish Options**

Can be painted, stained, or clear-finished for a natural wood look

- ✔ **Dimensionally Stable**

Cross-oriented strand layers ensure consistent strength and shape retention

- ✔ **Low Formaldehyde Emissions**

Contributes to healthier indoor air quality

- ✔ **Easy to Work With**

Cuts, drills, and routes easily using standard woodworking tools

- ✔ **Multiple Thicknesses Available**

Comes in 9, 12, and 18 mm options to suit various project needs

- ✔ **Code-Compliant**

Meets NZ Building Code performance requirements when installed as specified

1.6 Intended Use

- Wall bracing element
- Internal Wall and Ceiling Lining
- Factory walls
- Fruit Bins
- Furniture
- Steel frame rack inserts
- Partitions
- Hoardings
- Anywhere you would use untreated Plywood

1.7 Supporting Info & Documents

This document must be read in conjunction with the:

- IBS EUROLine Product Specification
- IBS EUROLine pass™ Certificate
- IBS EUROLine Warranty
- All other information including any updates are available at www.ibs.co.nz.

Famous Global Uses of OSB3 Panels

- OSB3 panels like IBS EUROLine have been used in a variety of high-profile architectural projects worldwide:
- **Upcycle House (Denmark)** – OSB3 used for interior wall cladding and flooring in a sustainability-focused home.
- **Nikunotoriko Restaurant (Japan)** – OSB3 featured in furniture and flooring design for a modern, textured aesthetic
- **Casa in Sintra (Portugal)** – OSB3 applied in doors and wall cladding for a warm, natural finish.
- **AUÁ Architects Office (Brazil)** – OSB3 used for ceilings, furniture, and flooring in a creative studio space.

These examples highlight OSB3's versatility in both residential and commercial design, especially where cost-efficiency, sustainability, and visual texture are priorities.

2. Best Practice

2.1 Health & Safety

When Working with Wood-Based Panels

Exposure Risks

- Wood dust and formaldehyde may irritate eyes, skin, and lungs
- Can trigger asthma or dermatitis with repeated exposure
- Both are classified as known carcinogens

Safe Work Practices

- Ensure well-ventilated work areas
- Keep workspaces clean and dust-free
- Use dust extraction systems on cutting, sanding, and routing tools
- If extraction is inadequate, wear:
- Dust mask (AS/NZS 1715 & 1716 compliant)
- Eye protection (AS/NZS 1337 compliant)

Waste Disposal

- Dispose of offcuts, shavings, and dust carefully to avoid airborne particles
- Follow local waste authority guidelines

Final Installation

- Seal all exposed surfaces facing occupied spaces before building use

For further information on Health & Safety, refer to:

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

2.2 Handling and Storage

Loading and unloading

Take care when transporting, handling, and unloading IBS EUROLine sheets to avoid damaging the sheets. If unloading manually, carry the sheets on their edge to prevent bending or warping.

If unloading mechanically, ensure there are at least two well-spaced supports or use a pallet to prevent excessive bending or sagging of the sheets. When using a crane, a spreader bar may be required to ensure the sheets are lifted evenly and safely.

Transport to site

The dunnage strapped to the bottom of the packet is intended for transport purposes only and is not suitable for on-site storage. Ensure that the sheets are secured properly during transport to prevent any shifting or damage. Use proper equipment to load and secure the sheets to avoid any unnecessary pressure or impact.

Storage

When the panels arrive, remove the fixing straps to reduce the stress on the panels.

Store EUROLine on a flat and dry surface, under cover if possible, or laid flat on bearers, with plastic underneath the bearers and a waterproof covering that allows ventilation.

The panels must be kept away from water and vegetation.

Site considerations:

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

2.3 Cutting

Cut IBS EUROLine sheets using standard wood working tools like a table saw or circular saw with a fine-tooth blade (60 tooth or higher) to provide a clean, smooth cut. Apply painter's tape to the line of cut to minimise chip out and to protect the sheet surface. A fine tooth handsaw may also be used.

2.4 Drilling

Drilling IBS EUROLine requires careful attention to detail to ensure a clean and precise finish. First and foremost, it is essential to use the right tools and safety equipment. Ensure that you have adequate ventilation or mechanical dust extraction when cutting or drilling the IBS EUROLine panels. The panels should be well-supported to prevent any bending or sagging during the drilling process.

Wearing appropriate safety gear, such as gloves, safety glasses, and a dust mask, is crucial to protect yourself from any debris generated. Additionally, using sharp, high-quality drill bits designed for OSB/Wood panels will help achieve a clean cut without damaging the material.

When drilling, it is recommended to start with a smaller pilot hole before moving to the desired hole size. This approach helps in maintaining accuracy and prevents the material from chipping. It is also important to drill at a slow and steady pace, applying consistent pressure to avoid overheating the drill bit and the panel.

3. Durability

3.1 Compliance

IBS EUROLine complies with the New Zealand Building Code when installed, and maintained according to IBS requirements.

The compliance process for IBS EUROLine with the New Zealand Building Code involves several key steps to ensure that the product meets all necessary standards and regulations.

EUROLine is suitable for use as load-bearing or non-load bearing internal linings, walls, ceilings, and general applications. It complies with the NZ Building Code, or the designer and installer can verify that the existing structure is suitable for the intended work.

Ensure the intended use is covered by the pass™ and specify whether it's for wall or ceiling lining. Consider the building's use, space requirements (fire, moisture, acoustics), and the supporting structure.

Additionally, the compliance process involves ensuring that the product is used in conjunction with a primary structure that complies with the New Zealand Building Code or where the designer and/or installer has determined that the existing structure is suitable for the intended building work.

To minimise risk:

Whenever possible, use cutting tools that are equipped with dust extraction or suppression features. Ensure the work area is properly ventilated and protect yourself from dust exposure by wearing appropriate personal protective equipment, including safety goggles, protective clothing, and a certified respirator, such as a P2 dust mask.

3.2 Responsibility

Designers and/or contractors responsible for the intended project should follow the details and recommendations specified in this manual.

It is also wise to keep in mind that all designs and constructions should comply with appropriate and relevant requirements of current legal building codes, regulations and standards, both domestic and international.

*The information provided in this installation guideline is valid at the time of publication.

3.3 Conditioning

- Adequate pre-conditioning prior to installation is essential for satisfactory results, especially during wet seasons and high humidity.
- Panels should be filleted and conditioned for a minimum period of 48 hours prior to installation.
- Due to the uptake of airborne moisture, permanent board distortion may occur if IBS EUROLine is placed in close proximity to framework with moisture content exceeding 18%.
- Attention to storage, preconditioning at the installation point and provision of adequate joint clearances will help accommodate any board movement.

3.4 Defects

Before Installation, please ensure you check the panels for defects or damage.

3.5 Differing Installation

To ensure the warranty on the product remains valid, it is crucial to follow the design and installation guidelines provided. Failure to adhere to these instructions may result in the warranty being voided.

3.6 Prohibited Uses

Specifiers, designers and installers must ensure that any time IBS EUROline is installed that it is only used when all conditions are met in relation to the local requirements as well as E2/AS1 and the current Building Code.

To maintain product integrity and comply with the New Zealand Building Code (NZBC), IBS EUROLine must not be used in the following situations:

× **Exterior Applications**

Not suitable for any external cladding or outdoor exposure.

× **Wet or Damp Environments**

Do not use in bathrooms, laundries, saunas, or any areas subject to persistent moisture or water splash.

× **Unsupported Installations**

All sheet edges must be fully supported by rigid framing. Do not rely on the panel for structural stability

× **Non-Compliant Framing**

Use only with timber framing that meets manufacturer specifications or lightweight steel framing compliant with NASH Design and NZS 3404

× **Non-Code Compliant Installations**

Do not install in any way that does not meet E2/AS1 or the current NZ Building Code.

4. Design

4.1 Check the Substrate

- The framing must fully support all sheet edges. It must be rigid and not rely on the lining sheet for stability.
- They must also comply with the NZBC or be suitable for the intended building work.
- Timber framing must be in accordance with framing manufacturer's specification.
- Lightweight steel framing must be in accordance with Nash Design and NZS 3404 Steel Structures Standard.

4.2 Framing

In order to achieve an acceptable wall finish, it is imperative that framing is straight and true. Framing tolerances must comply with the requirements of NZS 3604. All framing shall be made flush and can be installed vertically or horizontally.

Ensure adequate framing support to all edges and where penetrations are made for plumbing fixtures. Where IBS EUROLine sheets are to be glued directly to timber framing, check that the moisture content of the timber is no more than 18%.

4.3 Frame Tolerances

Make sure the frame is square and start from a central datum line. The frames should be straight and level to ensure a flush surface for the sheeting.

For optimal results, it is recommended to maintain a maximum tolerance of 3mm to 4mm over any 3000mm length of the frame. IBS EUROLine will not correct frames that are excessively warped or distorted, and any warping may remain visible after the internal lining is installed.

Bonding adhesives

IBS EUROLine is bonded with a non-formaldehyde pMDI resin system. The resulting IBS EUROLine sheets are sanded and ready for use.

Composition

IBS EUROLine is composed of engineered wood strands bonded under heat and pressure.

4.4 Timber

Timber framing must meet at least the requirements set out in NZS 3604, “Timber Framed Buildings.” Additionally, the treatment and moisture content of the timber framing must comply with NZS 3602 standards.

4.5 Steel

The minimum size for steel stud framing should be 64mm deep by 35mm wide, with a minimum base metal thickness (BMT) of 0.55mm. Steel framing must meet the minimum stiffness requirements. For additional guidance on steel framing, refer to the NASH 3405 document or consult your steel framing supplier.

Steel sections should be appropriately galvanized / zinc-coated to meet the durability requirements of the NZBC. Consult the framing manufacturer for more information.

4.6 Building Scope

- Building over timber or light steel framing that complies with the NZ. Building Code or where the designer and/or installer have established that the existing building is suitable for the intended building work.
- Where material group number 1 or greater is permitted.

5. Installation

5.1 Fixing IBS EUROLine

IBS EUROLine may be fixed to most substrates, and directly to framing. Direct fixing to concrete or concrete masonry is not recommended. Timber battens or an overlay of suitable substrate is necessary for installations over concrete.

Substrate Preparation

Check the substrate is level and true. Ensure all surfaces are clean, dry, smooth and free from dust, grease, solvent, wax. Lightly sand glossy surfaces to remove sheen.

- Prepare the substrate.
- Ensure all framing is clean and dry and has an moisture content of no greater than 18%.
- Ensure the panels have been acclimatised for 48 hours.
- IBS EUROLine may be fixed to most substrates and directly to framing.

5.2 IBS EUROLine can be used in the following applications

Recommended Use

- ✔ Dry interior environments only
- ✔ Suitable for wall or ceiling applications when used on interior applications.
- ✔ Great as a Flooring overlay
- ✔ Partitions
- ✔ Bracing
- ✔ Furniture and Cabinets

Not Suitable For

- ✖ Exterior use or damp areas (e.g. showers, saunas, indoor pools)
- ✖ Flush plaster-stopped joints intended for painting or wallpapering
- ✖ Marine applications, window reveals, or exterior door panels

Installation Guidelines

For ceiling linings in roof spaces:

- Place insulation directly on top
- Ensure proper roof ventilation

Over exposed rafters/purlins:

- Condition panels before use
- Seal all edges and faces with paint before installation
- Coat or cover all visible surfaces before occupancy
- Do not use water-based spray-on textured coatings

Important

- IBS EUROLine is not waterproof. Apply a protective finish before building occupancy to prevent moisture damage.

5.3 Fixing IBS EUROLine to Concrete or Concrete Masonry

Do not fix directly to Concrete or Concrete Masonry.

- Install Timber battens over the Concrete with a DPC layer in between
- Max 400 centres for 9mm and 600 centres for 12 or 18mm
- Ensure that the timber is no greater than 18% moisture content prior to fixing OSB
- Ensure that the panels have been acclimatised for 48 hours prior to fixing
- Use panel adhesive as well as screws or nails to fix to battens.

5.4 Internal Lining Installation

General Preparation (Applies to Both Wall and Ceiling Installations)

Acclimatisation: Panels must be acclimatised for at least 48 hours before installation.

Moisture Content: Ensure framing is clean, dry, and has a moisture content no greater than 18%.

Tools: Use standard woodworking tools and follow good trade practices.

Fixings: All fixings should be at least 12 mm from the sheet edge.

Expansion Gap: A 4 mm expansion gap must be left between all panels and at wall/ceiling edges. DO NOT hard butt join the sheets, you must allow for expansion and contraction.

5.5 Vertical Installation (Wall Lining)

Stud Spacing: 400 maximum for 9mm and 600 mm maximum for 12 and 18mm.

Fixing Pattern: Fixings should be spaced at 300 mm intervals around the perimeter and through the body of the panel.

Fixing Options:

- Finishing pins with panel adhesive. Glue daubs every 300mm and panel pins every 300mm around the perimeter and 300mm through the body of the panel. The pin size should be a minimum of 3 times the thickness of the sheet.
- Spiral, ring, or grooved shank nails (minimum 50 mm length, 3.0 mm diameter). Combined with glue daubs at 300mm centres around the perimeter and through the body of the panel.
- Gripshank™ Supersharpy™ 38 x 2.5 for Steel framing 9mm boards only as well as glue dabs at 300mm centres around the perimeter of the sheet and at 300mm centres in the body of the panel.

Fasteners:

For 9 and 12mm

- 40 x 2.8 mm galvanised nails or 50 x 2.87 mm hot-dipped galvanised D-head nails.
- Alternatively, 8 x 40 mm galvanised wood or steel screws.

For 18mm

- 60 x 2.8 mm galvanised nails or 60 x 2.87 mm hot-dipped galvanised D-head nails.
- Alternatively, 8 x 60 mm galvanised wood or steel screws.

Flush Finish: Fasteners should be flush with the sheet surface or slightly recessed and stopped.

Expansion Gap: Leave a 4mm expansion gap around all 4 edges of each sheet.

Aesthetic Considerations: Fixing type can be chosen based on the desired visual finish.

5.6 Horizontal Installation (Ceiling Lining)

Framing Support: Ensure ceiling joists or battens are spaced appropriately typically 400 for 9mm and 450 mm for 12mm or 18mm ceilings.

Fixing Requirements:

- Use both mechanical fixings and adhesive.
- Fixings to be at 300mm centres around the perimeter of the sheet and at 300mm centres through the middle of the sheet.

Fasteners:

For 9 and 12mm

- 40 x 2.8 mm galvanised nails or 50 x 2.87 mm hot-dipped galvanised D-head nails.
- Alternatively, 8 x 40 mm galvanised wood or steel screws.

For 18mm

- 60 x 2.8 mm galvanised nails or 60 x 2.87 mm hot-dipped galvanised D-head nails.
- Alternatively, 8 x 60 mm galvanised wood or steel screws.

Flush Finish: Fasteners should be flush with the sheet surface or slightly recessed and stopped.

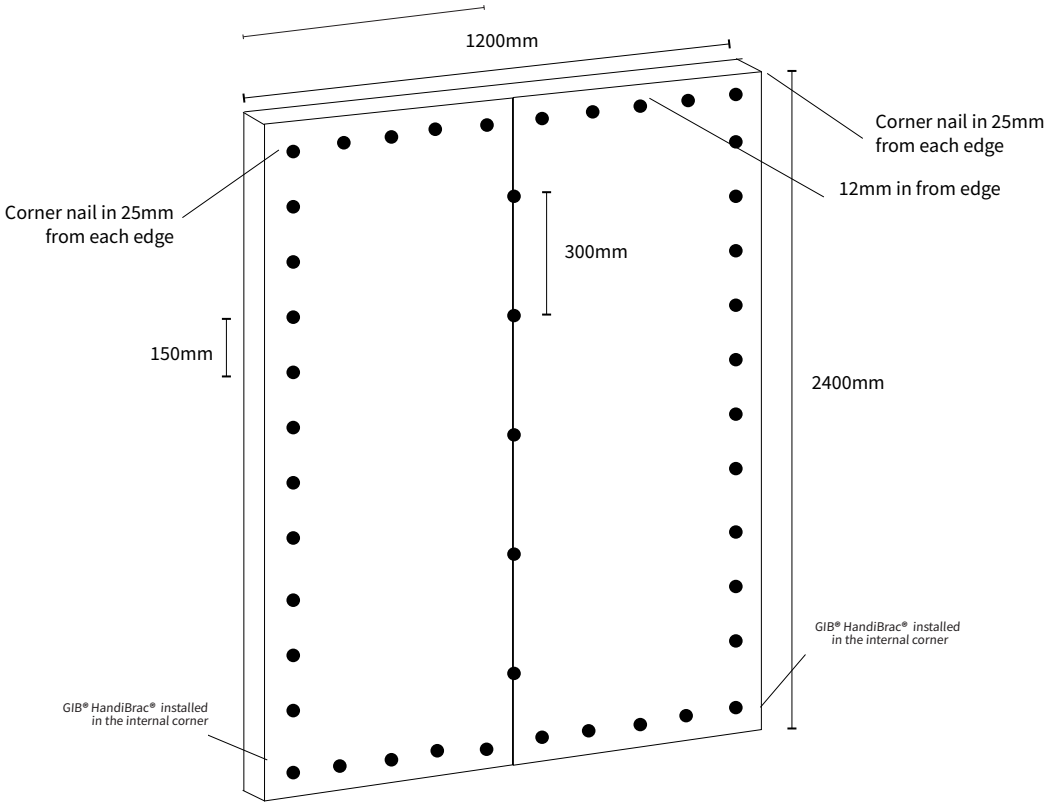
Expansion Gap: Leave a 4mm expansion gap around all 4 edges of each sheet.

5.7 IBS EUROLine as a Bracing Element

IBS EUROLine can be specified as a structural wall bracing element using the following bracing systems;

EUROLine Wall Bracing Table for sheet size 1200 x 2400m		
Brace Code	**BU/m for EQ**	**BU/m for Wind**
ELT92412 (9mm)	59	75

5.8 Timber Frames



System ELT92412 2400 x 1200 Timber Frame

Using 2400 x 1200 x 9mm IBS EUROLine with a Timber Frame

- All frames must be made with 90 x 45 SG8 Timber
- 9mm EUROLine sheet fixed with 50mm x 2.5 nails at 150mm centres around the perimeter and at 300mm centres down the central stud
- No need for Nogs or Dwangs
- GIB HandiBrac brackets to wall ends and bottom plate
- Tested with M12 hold down bolts to GIB HandiBrac brackets

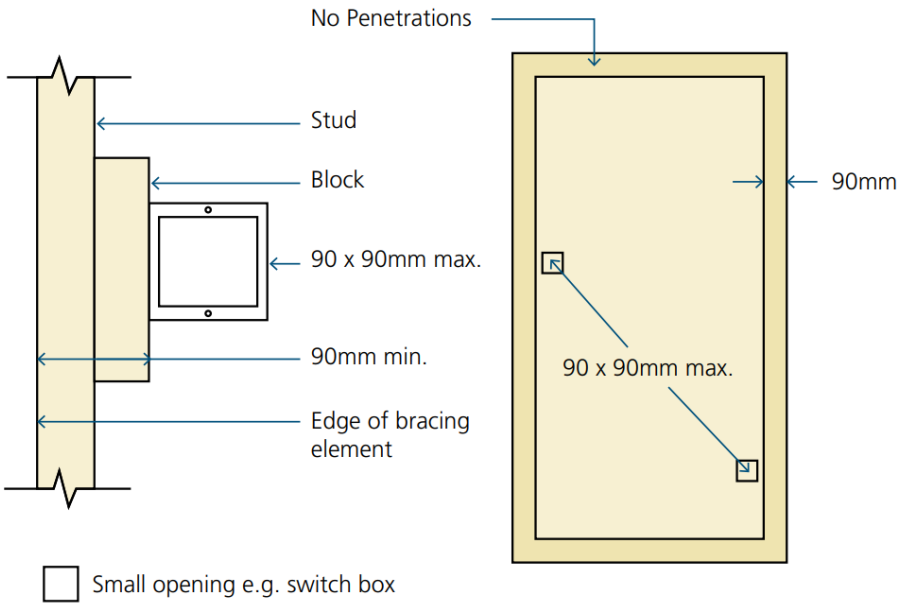
5.10 Smart Placement of Openings in Bracing Elements

Small Openings (≤ 90 x 90 mm):

Power outlets and similar small cutouts are permitted within bracing zones—just keep them at least 90 mm from the edge. Reinforcement may be needed alongside perimeter studs to maintain structural integrity.

Large Openings (> 90 x 90 mm):

For switchboards, recessed cabinets, or TVs, position these outside the bracing element. Alternatively, relocate bracing to the opposite side of the wall to preserve performance and compliance.



5.11 Exposed Beam Ceiling

An exposed beam ceiling is a design where the structural beams of a ceiling are left visible rather than covered. This style adds architectural character, creating a sense of height, warmth, and rustic or industrial charm, depending on the materials and finish used. It's both functional and aesthetically striking.

- **Pre-treatment:** Pre-condition and prime all sheet surfaces and edges before installation.
- **Weatherproofing**: Protect materials from weather throughout construction.
- **Installation Timing:** Where possible, install interior ceiling linings after the roof is in place to avoid exposure.
- **Skillion Roofs:** Maintain a continuous air gap between insulation and roofing underlay from soffit to ridge to ensure ventilation and control humidity.

5.12 IBS EUROLine Pre-conditioning of sheets

Why Pre-Condition OSB Sheets Before Installation

Pre-conditioning OSB sheets on-site is essential to ensure dimensional stability and long-term performance. Allowing the sheets to reach equilibrium moisture content helps prevent warping, swelling, or shrinkage after installation.

Best Practice Guidelines:

- **Elevate Sheets:** Support sheets off the ground in at least three evenly spaced locations.
- **Ground Clearance:** Maintain a minimum 50mm clearance from the ground to avoid moisture absorption.
- **Air Circulation:** Leave an 18mm gap between each sheet to promote airflow and even conditioning.
- **Full Support:** Ensure each sheet is fully supported to prevent sagging or distortion.

This simple yet critical step helps the boards acclimate to site conditions, reducing the risk of movement once fixed. It's a smart move for a smoother install and a more reliable finish.

5.13 Transform Timber Floors with EUROLine Overlays

Upgrade with Confidence

Give tired timber floors a fresh start with IBS EUROLine, the ideal base for your new floor finish. Simply sand the existing surface level, then install preconditioned boards in a staggered layout using full-spread adhesive and nails for a secure, lasting result.

When upgrading existing timber floors, EUROLine provides a robust and reliable substrate for a wide range of floor finishes.

To ensure optimal performance:

- **Surface Prep:** Sand the existing floor to a level finish.
- **Sheet Layout:** Use a staggered layout pattern for sheets.
- **Fixing Method:** Apply a full spread of adhesive and secure with nails for a strong, lasting bond.

9mm and 12mm board

- 40 x 2.5 Nails
- 8g x 40mm Screws
- 150 Centres around the perimeter
- 200mm Centres in the body of the panel
- Keep fixings a minimum of 10mm from the sheet edge

18mm board

- 50 x 2.5 Nails
- 8g x 50mm Screws
- 150 Centres around the perimeter
- 200mm Centres in the body of the panel
- Keep fixings a minimum of 10mm from the sheet edge
- **Preconditioning:** Ensure boards are preconditioned before installation to maintain dimensional stability.

6. Finishing

6.1 Coating IBS EUROLine

IBS EUROLine must not be left uncoated. It must be coated with paint or a stain system compatible with composite timber products and suitable for the intended use.

IBS EUROLine may also be finished with a polyurethane. You may also add a bit of paint colour to the polyurethane to give a colour option as well as a sealer. All surfaces will require sanding prior to finishing.

6.2 Step-by-Step: How to Finish OSB Board

Surface Preparation

- Clean the OSB thoroughly to remove dust, dirt, and grease.
- Fill any holes or gaps with wood filler and sand smooth once dry.
- Lightly sand the entire surface to improve adhesion.

6.3 Choose Your Finish

Option A: Paint

- Apply a primer suitable for wood or OSB.
- Use two coats of high-quality paint.
- Either a Water based or an Oil based paint is ok to use

Option B: Stain

- Use a penetrating wood stain for a natural look.
- Apply with a brush or cloth, following the grain.
- Consider Wattyl Deck & Timber Stain or Cabot's Exterior Stain.

Option C: Polyurethane

- Ideal for a clear, durable finish.
- Use water-based polyurethane for low odour and faster drying.
- Apply 2–3 coats with light sanding between coats.
- For a great look you can add a bit of your favourite coloured paint to the Polyurethane to give a great colour option.
- Try Cabot's CFP Floor Water Based Polyurethane or Resene Qristal Clear Poly.

7. Care, Maintenance

7.1 Care, Maintenance

General Overview

- IBS EUROLine is a high-quality, moisture-resistant, engineered structural wood panel made from OSB (Oriented Strand Board). It is designed for internal use in dry environments and is ideal for wall and ceiling linings, partitions, hoardings, and furniture.

Handling

- Always handle panels with care during loading, unloading, and transport to avoid edge damage or delamination.
- Avoid dragging panels across rough surfaces.
- If water damage occurs, remove any protective layer and allow the panel to dry thoroughly before resealing. Moisture content should be between 12% and 14% before resealing.

Storage

- Store panels flat on a dry surface, ideally under cover.
- Use bearers with plastic sheeting underneath and cover with a waterproof but ventilated material.
- Keep panels away from direct contact with water, vegetation, or ground moisture

Installation Considerations

- IBS EUROLine must not be left uncoated. Apply a compatible paint or stain system suitable for composite timber products.
- A 4 mm expansion gap should be left between panels and at wall edges
- Use standard carpentry tools for cutting and fixing.

Maintenance

- Inspect the coating annually for signs of wear, damage, or peeling.
- Reapply coatings as needed, following the coating manufacturer's instructions.
- Avoid exposing the panels to high humidity or moisture post-installation.
- Do not install near heat sources like ovens or fireplaces

Environmental and Safety Notes

- Made from FSC-certified timber and low in formaldehyde emissions, EUROLine supports sustainable building practices
- Suitable only for dry interior environments. Not recommended for bathrooms, saunas, or marine settings.

8. Warranty

Independent Building Supplies Limited (IBS) supplies sustainable building products, which when used and installed in accordance with all relevant instructions and specifications, will be fit for purpose.

As part of our commitment to performance, IBS provides a warranty in respect of IBS EUROLine (Product) in accordance with the following terms and conditions.

These terms and conditions must be read in conjunction with all product specific relevant and applicable technical documentation, information and guidelines published or referenced by IBS from time to time (Specifications) in relation to the Product.

1. IBS warrants that:

i. At the time of delivery to the merchant or site (where applicable) the IBS supplied Product will:

   a. Be free from freight related defects;

   b. Be free from defects that may have arisen through defective factory workmanship or materials; and

   c. Conform to the performance characteristics listed on the applicable pass™ (warranted condition).

ii. Once installed properly and in accordance with all appropriate Specifications the Product will continue to meet the relevant provisions of the building code as described on t he applicable pass™ (warranted performance).

2. Date warranty valid:

i. IBS warrants:

   a. The warranted performance for 5 years from proven date of purchase or dispatch from IBS whichever date is the earlier; and

   b. The warranted performance for the durability period as specified by the NZ Building Code.

The durability period begins from the date the product is first installed or two months after the date of delivery, whichever is the earlier.

ii. All enquiries relating to this warranty must (in the first instance) be directed to the place of purchase, the supplier or the installer.

i. By submitting a claim under the warranty, you grant IBS and its agents, consultants and contractors full rights of access, at no cost and at any reasonable time, to the relevant building to inspect the Product and the installation method for the purpose of determining the validity of the claim.

4. In the event a breach of the warranty is proven, the following applies:

i. For any valid and accepted breach of a warranty, IBS will, in its sole discretion, either:

   a. Repair, replace or rectify the defective Product; or

   b. Refund the purchase price of the defective Product. Where applicable the value will be reduced pro-rata, based on the remaining life of the Product (as set by the relevant durability requirements of the NZ Building Code).

ii. Any action taken by IBS in satisfaction of a warranty claim shall constitute full and final settlement of all claims and IBS's total liability related to a breach of the warranty is limited to the direct cost to IBS of performing either of the above options.

iii. IBS reserves the right to supply other comparable materials or products should the warranted Product no longer be supplied by IBS.

5. This warranty is subject to the following:

i. Receipt of evidence of the date of purchase of the Product.

ii. Evidence satisfactory to IBS of failure of the Product.

iii. Receipt of a written claim from the claimant either within 30 days of when the defect or failure of the Product would have become reasonably apparent or, if the defect was reasonably apparent prior to installation, then the claim must be made prior to installation.

iv. The claim must include full details of the alleged defect in the Product.

v. Evidence satisfactory to IBS that all design, storage, transport, installation and maintenance requirements for the Product have been met or carried out in accordance with the Specifications and in terms of best building practice and the building code.

vi. The warranty does not cover failure or problems caused by defective use, failure relating to improper design of the project structure, structural failure, settlement, movement of materials to which the Product is attached or dependent on, acts of God including but not limited to earthquakes, cyclones, floods or other severe weather conditions, inadequate maintenance, growth of mould, mildew, fungi, bacteria or any organism on any Product , or acts or omissions of a third party over whom IBS has no control.

vii. The warranty does not cover failure or loss arising from the failure to follow all relevant IBS advice and requirements or failure to adhere to the Specifications.

viii. Normal wear and tear, including non- performance related changes, are excluded from this warranty.

ix. All relevant information relating to the Specifications is uncontrolled in printed format and is available from IBS (refer to www.ibs.co.nz).

6. Limitations

i. IBS will not be liable for a warranty claim unless:

the use of the Product meets the installation, storage, transport, use and maintenance requirements and Specifications in respect of the Product and the customer is responsible to ensure these are received and understood; and (b) the claim procedure set out in these terms is correctly followed and the required information is provided.

ii. IBS will in no circumstances be liable for:

a. Any damage or loss caused by a person other than IBS, or by any other factor outside IBS's reasonable control, including without limitation fire, moisture, lightning, liquid, strike or lockout, chemicals, insects or animal;

b. Any damage or loss caused or contributed to by incorrect or improper use or a failure to comply with all Specifications and all applicable building codes, regulations and legislation;

c. Neglect, abuse, misuse, growth of mould/ mildew/fungi/bacteria or other organism; or

d. Any direct or indirect loss, or consequential loss or damage, of any kind.

iii. All warranties, conditions, liabilities and obligations implied by law or custom (other than the warranties in these terms) are excluded to the fullest extent permitted by law, and without limitation, where the Product is provided for the purposes of trade, the provisions of the Consumer Guarantees Act 1993 shall not apply.

iv. Except as provided in these terms, IBS will not be liable (under legislation, contract, tort, or otherwise including in equity) in respect of any defects in the Product or for any other cost, expense or liability caused by or related to the use of the Product.

9. Technical Properties

IBS EUROLine Technical Properties	
Property	**Value**
Density	600–680 kg/m^3
MOR (Modulus of Rupture)	22–25 N/mm^2
MOE (Modulus of Elasticity)	3500–4500 N/mm^2
3500–4500 N/mm^2	0.32–0.34 N/mm^2
24-hour Thickness Swell	15–20%

Description	Weight per sheet
2400 x 1200 x 9mm	16.5kg
2400 x 1200 x 12mm	22.0kg
2400 x 1200 x 18mm	33.1kg

IBS EUROLine Acoustic Performance	
Strandboard Sound Transmission Class (STC)	Test Method
25dB	ISO 10140-2

10. Additional Resources

10.1 Compliance and Information

For compliance & information of IBS EUROLine refer to:

- IBS Product Specification
- IBS Maintenance and Warranty of IBS EUROLine
- www.ibs.co.nz
- 0800 367 759

10.2 Designing outside of scope

If the installation of IBS EUROLine deviates from these specifications or the guidelines in this design and installation guide, please be aware that any warranty claims will be void, unless prior approval is obtained from IBS before starting the work.

11. Frequently Asked Questions

Q. What is IBS EUROLine made from?

A. It's a European-manufactured OSB3 panel made from three cross-laminated layers of wood strands bonded with heat-cured adhesives.

Q. Where can I use IBS EUROLine?

A. Ideal for dry interior applications such as wall and ceiling linings, partitions, hoardings, furniture, and racking inserts.

Q. Can IBS EUROLine be used in wet or exterior areas?

A. No. It is not suitable for bathrooms, saunas, exterior cladding, or any area exposed to moisture.

Q. Is IBS EUROLine structurally rated?

A. Yes. It can be used as a bracing element in timber or steel-framed walls when installed according to IBS specifications.

Q. What sizes and thicknesses are available?

A. Panels come in 2400 x 1200 mm sheets, with thicknesses of 9, 12, and 18 mm.

Q. Can I paint or stain the surface?

A. Yes. The surface can be painted, stained, or clear-finished to achieve various wood effects.

Q. Is IBS EUROLine environmentally friendly?

A. Absolutely. It's made from sustainably sourced wood and has low formaldehyde emissions.

Q. How should I handle and store the panels?

A. Store flat in a dry, covered area. Seal all exposed surfaces before occupancy to prevent moisture uptake.

Q. Is it easy to work with?

A. Yes. It can be cut, drilled, and routed using standard woodworking tools.

Q. Does it meet building code requirements?

A. Yes. IBS EUROLine complies with the New Zealand Building Code when installed as specified.

12. Limitations

When you are specifying and installing IBS EUROLine the Installation Guide must be followed.

IBS EUROLine should not be installed on timber framing where the moisture content is greater than 18%.

When used as a wall lining ensure stud centres do not exceed 600mm.

The overleaf installation checks are considered critical to the successful installation of IBS EUROLine. Using this sheet as a checklist during installation will aid in problem free product installation and long term product durability post construction.

IMPORTANT NOTES:
All sections of this checklist should be completed in full.

Careful adherence to technical specification literature is critically important for completing IBS EUROLine wall lining installation. The installation shall comply with requirements of building consent. Any variations made should be approved by the BCA prior to work being undertaken.

- Always follow the IBS EUROLine Installation Guide.
- Do not install on timber framing with moisture content above 18%.
- Use the checklist on the next page during installation to ensure long-term durability and compliance.

Wall Lining Requirements

- Maximum stud spacing: 400 for 9mm and 600 mm for 12 and 18mm.
- Ensure framing is rigid and compliant with building consent.

Critical Installation Checks

- All checklist sections must be completed in full.
- Any variations must be approved by the Building Consent Authority (BCA) before proceeding.

Prohibited Uses

- Dry interior use only – not suitable for external applications.
- Do not use for flush plaster-stopped joints intended for painting or wallpapering (unless part of a proprietary glued drywall system).

Not suitable for:

- Exterior cladding
- Marine environments
- Shower linings, saunas, or indoor pools
- Window reveals or exterior door panels
- Areas with repeated water exposure or constant dampness

Ceiling & Roof Space Installations

For ceilings exposed to high temperatures or low humidity:

- Place insulation directly on top
- Ensure adequate roof ventilation
- Panels over exposed rafters/purlins must be:
- Conditioned before installation
- Paint-sealed on all edges and faces

Finishing Requirements

- All surfaces facing habitable spaces must be coated or covered before occupancy.
- Do not apply water-based spray-on textured coatings.
- Panels are not waterproof – apply a protective finish prior to building use.

Disclaimer

This brochure supersedes all previous editions. All Acts, Codes, and Standards referenced are current as of the date of publication. Users must ensure they are referring to the latest version of this document and comply with all relevant local and national regulations at the time of installation.

13. Installation checklist

Installation checklist for IBS EUROLine board based on the information available:

	Items to be checked	✓ Tick ☐	Notes
	1. Pre-Installation Checks		
1	Confirm intended use is dry interior only (not for wet or exterior environments)	☐	
2	Ensure timber framing moisture content is ≤ 18%	☐	
3	Verify framing is rigid and compliant with NZS 3604 or NASH Design (for steel)	☐	
4	Confirm stud spacing does not exceed 400 for 9mm or 600 mm for 12 and 18mm wall linings	☐	
	2. Fixing Fastening		
5	Use approved fixings and follow spacing guidelines from the installation guide	☐	
6	Fix panels directly to framing or approved substrates only	☐	
7	Avoid unsupported installations or non-compliant framing systems	☐	
	3. Environmental & Safety Requirements		
8	Work in a well-ventilated area	☐	
9	Use dust extraction tools or wear a P2 dust mask, goggles, and protective clothing	☐	
10	Dispose of offcuts and dust in accordance with local waste authority regulations	☐	

	4. Surface Protection		
11	Seal all exposed surfaces (edges and faces) before occupancy	☐	
12	Do not use water-based spray-on textured coatings	☐	
13	For ceiling linings in roof spaces, ensure: • Insulation is placed directly on top • Adequate ventilation is provided	☐	
	5. Compliance & Documentation		
14	• Installation must comply with the NZ Building Code (E2/AS1 and others) • Any variations must be approved by the BCA (Building Consent Authority) • Use the official installation checklist as a record of compliance	☐	

SUSTAINABLE BUILDING PRODUCTS

IBS EUROline

Design & Installation Guide

Scan the QR code to view all IBS EUROline documents.

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