

IBS Plyfloor

June 2026

Design & Installation Guide



BUILDING BETTER HOMES

Proudly Kiwi Owned and
Operated for over 30 years





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.





*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 Showerline
- IBS Softboard
- IBS Hardboard
- IBS Peg Board
- IBS Acoustic Panels
- IBS Mini Panels

Contents

| | | |
|-----------|--------------------------------------|-----------|
| 1. | Introduction | 6 |
| 1.1 | Introduction | 6 |
| 1.2 | Scope | 6 |
| 1.3 | What is IBS Plyfloor | 6 |
| 1.4 | Sizes & Applications | 6 |
| 1.5 | Benefits | 7 |
| 1.6 | Intended Use | 7 |
| 1.7 | Supporting Info & Documents | 7 |
| | | |
| 2. | Best Practice | 8 |
| 2.1 | Health & Safety | 8 |
| 2.2 | Handling & Storage | 8 |
| 2.3 | Cutting | 9 |
| 2.4 | Cutting the Sheets | 9 |
| 2.5 | Drilling & Fastening | 10 |
| 2.6 | Penetration | 10 |
| | | |
| 3. | Durability | 11 |
| 3.1 | Compliance | 11 |
| 3.2 | Responsibility | 11 |
| 3.3 | Conditions | 11 |
| 3.4 | Defects | 11 |
| 3.5 | Deferring Installation | 11 |
| | | |
| 4. | Design | 12 |
| 4.1 | Design Considerations | 12 |
| 4.2 | Substrate and Framing | 12 |
| 4.3 | Fixings and Fastener Spacing | 12 |
| | | |
| 5. | Installation | 13 |
| 5.1 | Pre-Installation Checks | 13 |
| 5.2 | Substrate Preparation | 13 |
| 5.3 | Moisture Control During Installation | 13 |
| 5.4 | Laying the Sheets | 14 |
| 5.5 | Fixing the Sheets | 14 |

| | | |
|------------|-----------------------------------|-----------|
| 6. | Finishing | 16 |
| 6.1 | Finishing | 16 |
| 6.2 | Post-Installation Check: Bubbling | 16 |
| 6.3 | How to Fix Bubbling | 16 |
| 7. | Care & Maintenance | 17 |
| 7.1 | Care & Maintenance | 17 |
| 8. | Warranty | 18 |
| 8.1 | Warranty | 18 |
| 9. | Technical Properties | 22 |
| 10. | Additional Resources | 23 |
| 10.1 | Compliance and Information | 23 |
| 10.2 | Designing outside of scope | 23 |
| 11. | Frequently Asked Questions | 24 |
| 12. | Limitations | 25 |
| 13. | Installation Checklist | 26 |

NZBN 9429000097253

Contact us for more information or to talk to our team.

www.ibs.co.nz | 0800 367 759 | info@ibs.co.nz

1. Introduction

1.1 Introduction

This guide provides advice on handling, installing and maintaining IBS Plyfloor.

1.2 Scope

Confirm scope

Ensure you understand the layout and dimensions of the area where Plyfloor will be installed.

Check Substrates

Verify that the subfloor or joists are level, dry, and structurally sound.

1.3 What is IBS Plyfloor?

IBS Plyfloor is an F11 structural plywood. The veneers are glued with an exterior phenol-formaldehyde resin.

The IBS Plyfloor sheets are CD grade; no open or loose knotholes and only minor face repairs. Treated Sheets are supplied treated to H3.2 (micronized copper azole or MCA).

The sheets have a plastic tongue down one edge and a groove on the opposite edge down the length of the sheet. This enables edge jointing without the need for additional timber support.

IBS supplies PlyFloor for use as an internal flooring substrate.

1.4 Sizes & Applications

| IBS Plyfloor Untreated - Product Details | | | |
|--|------------------|-------------|----------------|
| L x W x Thickness (mm) | IBS Product Code | Weight (kg) | GTIN |
| 2400 x 1200 x 19 | PLYFTM192412 | 29.9 | 09421028769648 |
| 2400 x 1200 x 21 | PLYFU212412 | 33.0 | 09421028762458 |

| IBS Plyfloor Treated - Product Details | | | |
|--|------------------|-------------|----------------|
| L x W x Thickness (mm) | IBS Product Code | Weight (kg) | GTIN |
| 2400 x 1200 x 19 | PLYFT192412 | 29.9 | 09421028762434 |

1.5 Benefits

- Low Formaldehyde Emissions (LFE) panel
- Ultrasound tested on the production line
- AS/NZS 2269 structurally certified to F11
- High quality face veneer
- WBP Marine Bonded Phenolic Glue
- Plastic T&G running the length of the board

1.6 Intended Use

Flooring

The floor framing must be designed to NZS 3604: 2011, (section 7) or specifically designed to NZS 3603:1993. Where the substrate is existing, the designer must assure themselves that the substrate is suitable for the intended building work and intended building use.

Account shall be taken in consideration of the floor loads, refer to NZS 3604:2011, (section 1). IBS Plyfloor can be used as a structural floor diaphragm when specified in accordance with NZS 3604:2011 (section 7).

1.7 Supporting Info & Documents

This guide must be read in conjunction with the:

- IBS Plyfloor Pass™
- IBS Plyfloor Warranty.



2. Best Practice

2.1 Health & Safety

Take all necessary steps to ensure your safety and the safety of others:

PPE Requirements:

- Safety glasses
- Hearing protection
- Dust mask or respirator (P2 or higher)
- Gloves and steel-capped boots

Dust Extraction:

- Always use a circular saw fitted with a dust extraction system or vacuum attachment.
- Work in a well-ventilated area or outdoors where possible.
- Avoid dry sweeping, use a vacuum with HEPA filter to clean up dust.

For further information on Health & Safety, refer to:

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

2.2 Handling & Storage

Loading and Unloading

- Store IBS Plyfloor sheets flat and off the ground in a dry, covered area.
- Avoid prolonged exposure to sunlight or moisture before installation.
- Lift sheets with two people to prevent damage or injury.

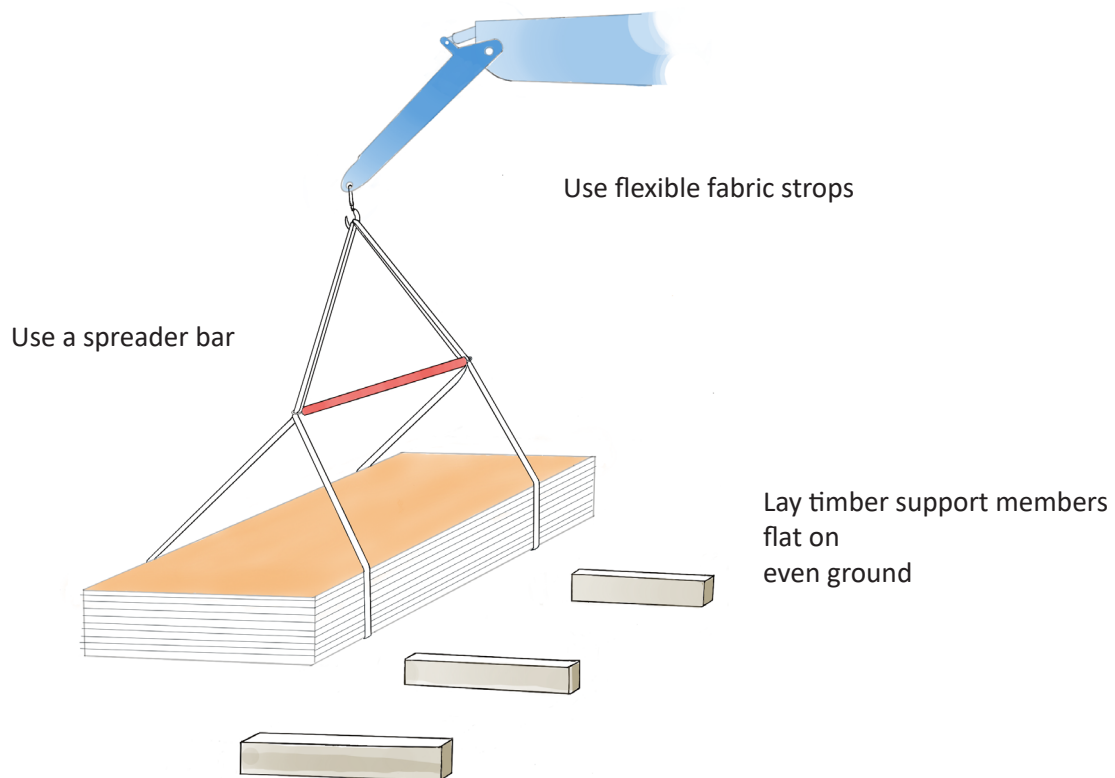
Important: Intact IBS Plyfloor sheets pose no health risk. The hazard arises only when dust is generated during mechanical processing.

Important Disclaimer

IBS is not responsible for damage caused by improper storage or handling of IBS Plyfloor.

To maintain product integrity and ensure optimal performance, always follow the recommended storage and handling guidelines outlined in the official installation guide.

Failure to comply may result in product damage and void warranty coverage.



2.3 Cutting

Marking:

- Use a chalk line or pencil to mark the cut line clearly.
- Double-check measurements before cutting.

Cutting Technique:

- Use a circular saw with a fine-tooth blade suitable for plywood.
- Cut with the face side up to minimise splintering.
- Support the sheet fully during cutting to prevent binding or kickback.

Edge Treatment:

- Lightly sand cut edges to remove splinters.
- If exposed to moisture, seal cut edges with a suitable edge sealer.

2.4 Cutting the Sheets

- **Tools:** Use a fine-tooth hand saw or power saw.
- **Support:** Fully support sheets while cutting.
- **Edge Finishing:** Cut edges with a plane or 120–150 grit sandpaper.

Dust Safety:

- Use mechanical dust extraction or work in a well-ventilated area.
- Wear a dust mask (P2 or higher), safety glasses, and hearing protection.

2.5 Drilling & Fastening:

Pre-drill Pilot Holes:

- Use a drill bit slightly smaller than the screw diameter.
- Space pilot holes according to the fixing schedule (typically 150 mm centres on edges, 300 mm in the field).

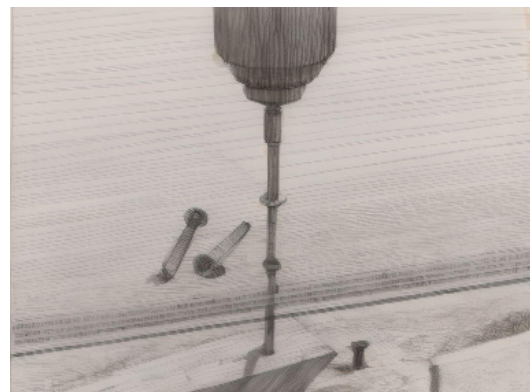
Fasteners:

- Use corrosion-resistant screws or nails suitable for treated H3.2 plywood.
- Ensure fasteners are flush with or slightly below the surface.

2.6 Penetration

For smooth, clean cut circular holes:

- Mark the centre of the hole on board.
- Pre-drill a hole to be used as a guide.
- Cut hole to the required diameter using a hole saw fitted to a electric drill where the central bit is inserted into the pre-drilled hole.



For small irregular holes:

- Small rectangular apertures can be achieved by forming a series of small holes around the perimeter of the opening.
- Tap out with a chisel and clean up with sand paper or a rasp.



3. Durability

3.1 Compliance

NZ Building Code Compliance

IBS Plyfloor is designed to meet the rigorous standards of the New Zealand Building Code (NZBC). IBS Plyfloor must be installed in accordance with:

- Clause B1 (Structure) and Clause B2 (Durability) of the NZ Building Code.
- Clause E2/AS1 (External Moisture) for weathertightness in enclosed spaces.
- Ensure compatibility with other building elements like membranes, insulation, and cladding systems.

All installations must follow the guidelines outlined in the official IBS Plyfloor Design & Installation Guide to ensure compliance with NZBC Acceptable Solutions, including E3/AS1.

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 Conditions

General

- Regularly inspect the sheets to ensure that there is no evidence of swelling at the sheet edges, which would occur if the sheets had been exposed to moisture. If this has happened, the sheets will need to be replaced.
- Any holes can be repaired by patching or filling with a suitable interior grade filler.
- If the sheets have been coated, then recoat in accordance with the supplier's recommendations.

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.

4. Design

4.1 Design Considerations

Before installing IBS Plyfloor, it is essential to assess the site, materials, and structural conditions to ensure compliance, durability, and performance.

Treatment Type

- **Use H3.2 Treated Plyfloor:** When using treated IBS Plyfloor sheets are supplied treated to H3.2 using micronized copper azole (MCA) or CCA. This treatment is mandatory for flooring applications to resist fungal decay and insect attack.
- **When using Untreated Plyfloor** for structural flooring ensure that it is used as an internal flooring and not in areas exposed to moisture.

Moisture Content

- Joist Moisture Content: Timber framing and joists must have a moisture content of 18% or less at the time of installation.
- This aligns with NZS 3602 and E2/AS1 requirements to prevent shrinkage, warping, and long-term structural issues.

4.2 Substrate and Framing

Ensure joists are:

- Level and spaced correctly (typically 400 mm or 600 mm centres depending on the loading required).
- Structurally sound and compliant with NZS 3604 for timber-framed buildings.
- The short edge sheet edges must be fully supported—either by joists or nogs, IBS Plyroof is supplied with a plastic T&G on the long edge which does not need to be supported.

4.3 Fixings and Fastener Spacing

Fixing Type:

- Use corrosion-resistant nails or screws suitable for treated timber.
- Nails should be annular grooved or equivalent.

Spacing:

- 150 mm centres along sheet edges.
- 300 mm centres within the sheet field.
- Pilot holes should be predrilled to prevent splitting, especially near edges.

5. Installation

Below is the recommended process for IBS Plyfloor, please make sure you follow the below steps in order.

5.1 Pre-Installation Checks

- **Confirm Scope:** Ensure the project falls within the intended use (flooring, deck, or roof substrate).
- **Treatment:** Use the correct treatment level for the intended use - only H3.2 treated Plyfloor (CCA or MCA) for any areas where there may be moisture and Untreated for internal dry areas only.
- **Inspect Sheets:** Check each sheet for defects such as delamination, warping, or damage before installation.
- **Moisture Content:** Timber framing must have a moisture content of 18% or less.

5.2 Substrate Preparation

- **Joist Spacing:** Maximum spacing is 400 mm centres for 19 mm thick IBS Plyfloor under 2 kPa load.
- **Support:** All sheet ends must be supported. Edges do not require support if the plastic tongue is used.
- **Flatness:** Check for joist deflection and pack as needed to maintain a flat surface.

5.3 Moisture Control During Installation

Weather Protection:

- Avoid installing IBS Plyfloor in wet weather or when rain is forecast.
- Use temporary coverings (e.g. tarpaulins) to protect sheets and framing if exposed to the elements.
- Make sure that water does not pool on the sheets if wet weather does occur.

Storage:

- Store sheets flat, off the ground, and under cover.
- Avoid prolonged exposure to direct sunlight or moisture before installation.

Ventilation:

- Ensure good airflow under the floor to prevent moisture buildup.
- Comply with NZ Building Code Clause E2/AS1 for moisture management in enclosed spaces.
- Post-Installation:
 - Apply surface coatings or membranes as soon as practical after installation to seal the surface.
 - If the floor will be exposed for an extended period, consider using a temporary protective coating.

5.4 Laying the Sheets

- **Orientation:** Lay sheets perpendicular to joists in a staggered pattern.
- **Expansion Gaps:** Leave 2–3 mm between sheets to allow for movement.
- **Tongue & Groove:** Engage plastic tongue and groove edges for alignment and strength.

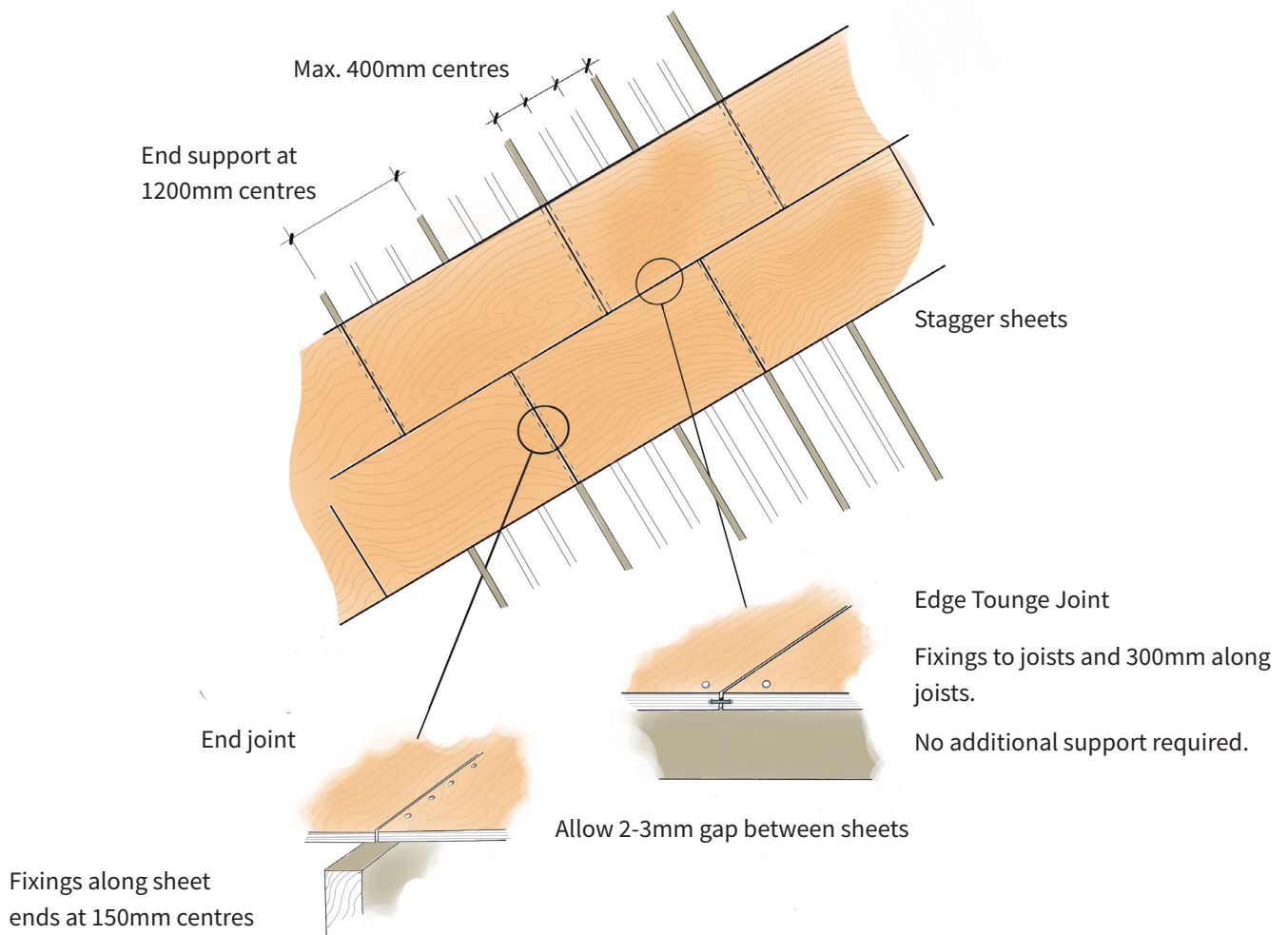
5.5 Fixing the Sheets**Fixing Type:**

- 60 x 2.8 mm flat head nails (annular groove)
- 65 x 2.87 mm ring shank nails (gun nails)
- 10g x 45 mm stainless steel screws (wet areas)

Spacing:

- 150 mm centres around the perimeter
- 300 mm centres through the body of the sheet
- Fixings must be at least 7 mm from the sheet edge
- Pilot Holes: Predrill 2.4 mm pilot holes for screws to prevent splitting.
- Use Glue We recommend that you use a combination of panel glue as well as either nails or screws when you install IBS Plyfloor.

IBS Plyfloor Layout



Sheet Layout and Expansion

- Lay sheets with the plastic tongue and groove aligned for interlocking support.
- Allow for 2–3 mm expansion gaps between sheets if not using tongue and groove.
- Stagger joints between rows to improve structural integrity.

6. Finishing

6.1 Finishing

Once installed, fill all visible screw, nail or staple holes with a flexible grade wood filler, and then lightly sand.

Finish the sheets with an impervious coating, membrane or overlay. Where used as a deck substrate and prior to the installation of the waterproof layer, the IBS Plyfloor must be prepared in accordance with the relevant waterproof supplier's requirements and E2/AS1.

Where IBS Plyfloor has been installed and has been allowed to get wet, bubbling may occur. Bubbling is where the face veneer is separated from the 2nd veneer only. This has no impact on the structural integrity or performance of IBS Plyfloor.

A smooth surface can be created by removing the loosened area with a chisel or a router and filling the indentation with a filler such as a 2-pot epoxy resin or a builders bog. Where the 'bubbled' area is greater than 10% of the board, replacement of the sheet is recommended.

If a high-quality polyurethane finish is required, ensure the installed floor is fully protected throughout the entire build process.

For sheet vinyl or laminate flooring, install a flexible underlay or sheet underlay such as IBS Hardboard Underlay as required by the vinyl manufacturer's technical data. It is also recommended to install IBS Hardboard Underlay when laying a carpet finish.

- **Hole Filling:** Fill visible fastener holes with flexible wood filler and sand smooth.
- **Surface Coating:** Apply an impervious coating, membrane, or overlay.
- **Wet Areas:** Ensure compatibility with waterproofing systems and E2/AS1 compliance.

6.2 Post-Installation Check: Bubbling

- **What to Look For:** Bubbling may occur if IBS Plyfloor has been exposed to moisture. This is where the face veneer separates from the second veneer.
- **Is It a Problem?:** Bubbling is cosmetic only and does not affect structural integrity.

6.3 How to Fix Bubbling:

1. Identify the bubbled area.
2. Remove the loosened veneer using a chisel or router.
3. Fill the indentation with a suitable filler (e.g. 2-pot epoxy resin or builders bog).
4. Sand the area smooth once cured.
5. Replace Sheet if bubbling affects more than 10% of the board.

7. Care & Maintenance

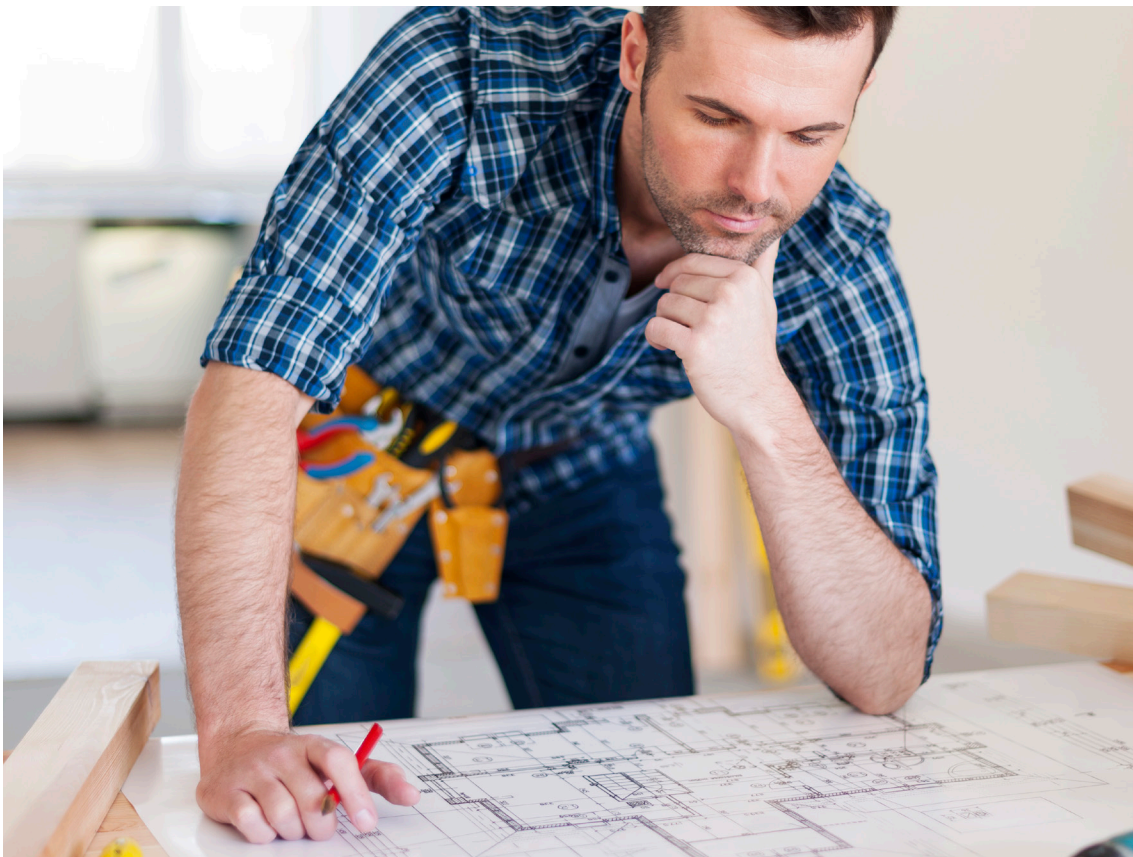
7.1 Care & Maintenance

IBS Plyfloor is required to be sealed or overlaid with an appropriate protective floor covering (carpet tile, carpet, etc.) or a paint (not water-based) or a compatible membrane system.

Where the sheets are used in areas prone to water splash, a waterproof membrane or impervious floor covering must be used.

Under normal conditions, IBS Plyfloor requires no maintenance, providing that the protective covering has been maintained.

If water damage occurs to an area where IBS Plyfloor has been used, ensure the area is allowed to dry before replacing any covering or coating.



8. Warranty

8.1 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 Plyfloor (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:

- 1.1 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).
- 1.2 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 the applicable pass™ (warranted performance).

2. Date warranty valid:

- 2.1 IBS warrants:
 - (a) the warranted performance for 15 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.

- 2.2 All enquiries relating to this warranty must (in the first instance) be directed to the place of purchase, the supplier or the installer.
- 2.3 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.

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

- 3.1 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).
- 3.2 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.
- 3.3 IBS reserves the right to supply other comparable materials or products should the warranted Product no longer be supplied by IBS.

4. This warranty is subject to the following:

- 4.1 Receipt of evidence of the date of purchase of the Product.
- 4.2 Evidence satisfactory to IBS of failure of the Product.
- 4.3 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.
- 4.4 The claim must include full details of the alleged defect in the Product.

- 4.5 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.
- 4.6 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.
- 4.7 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.
- 4.8 Normal wear and tear, including non- performance related changes, are excluded from this warranty.
- 4.9 All relevant information relating to the Specifications is uncontrolled in printed format and is available from IBS (refer to www.ibs.co.nz).

5. Limitations

- 5.1 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.

- 5.2 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.
- 5.3 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.
- 5.4 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

9.1 Technical Properties

IBS supplies PlyFloor for use as an internal flooring substrate, and as a substrate under roofing or decking waterproof membranes.

IBS Plyfloor is an F11 structural plywood. The veneers are glued with an exterior phenol formaldehyde resin. The IBS Plyfloor sheets are CD grade; no knot holes and only minor face repairs. Sheets are supplied untreated or treated to H3 (Micronized Copper Azole (MCA)) or H3.2 (CCA).

The sheets have a plastic tongue and groove installed down the length of the board to enable simpler joining. If designed, installed and maintained in accordance with all IBS requirements, IBS PlyFloor will comply with or contribute to compliance with the following performance claims:

Grade & Standard: F11 structural plywood to AS/NZS 2269.

Glue & Emissions: A-bond phenolic resin (WBP), low-formaldehyde (E0).

Panel Grade: CD – minimal defects.

Profile: Plastic tongue & groove for easy joining.

Fixing Centres: 150 mm perimeter, 300 mm field.

Gap Allowance: 2–3 mm between sheets.

Treatment: Untreated or H3.2 MCA for wet/exterior areas.

Membrane Use: Suitable substrate for roofing/deck membranes.

Compliance: NZBC B1 (Structure), B2 (Durability), F2 (Hazardous Substances).

Storage: Store flat, dry, elevated; protect from sun/moisture.

10. Additional Resources

10.1 Compliance and Information

For compliance & information of IBS Plyfloor refer to:

- IBS Plyfloor Warranty
- www.ibs.co.nz
- 0800 367 759

10.2 Designing outside of scope

If you're designing or installing a product that deviates from these specifications or the guidelines in this design and install guide, please note that this will void any warranty claims unless specifically approved by IBS prior to any works starting.



11. Frequently Asked Questions

Q. What is IBS Plyfloor?

A. F11 structural plywood to AS/NZS 2269, CD grade, A-bond phenolic glue, available untreated or H3.2 MCA treated.

Q. What sizes are available?

A. Sheets measure 2400 × 1200 mm and come in 19 mm (~30 kg) or 21 mm thicknesses.

Q. What are the main applications?

A. Internal flooring substrate.
Roofing and decking substrate under waterproof or rubber membranes.

Q. Why does it have a plastic tongue & groove?

A. The plastic T&G runs the length of each sheet, allowing quick, accurate jointing without additional nogs or edge framing.

Q. Do cut edges need to be sealed?

A. Yes. All cuts must be coated with a copper-based preservative (e.g., Metalex Green End Seal) to maintain durability.

Q. Can it be left exposed outdoors?

A. H3.2 treated PlyFloor can be used in wet or exterior environments, but sheets should be sealed or covered promptly and protected from prolonged moisture.

Q. How should it be stored?

A. Store sheets flat, elevated at least 150 mm off the ground, in a dry, ventilated space, protected from sun and weather.

Q. Is it compliant and certified?

A. Yes – complies with NZBC B1 (Structure), B2 (Durability), and F2 (Non-toxic).
Made from PEFC-certified timber.

12. Limitations

IBS Plyfloor is designed for specific structural applications and must only be used within its defined scope. It is suitable for use as an internal flooring substrate and as a substrate under roofing or decking waterproof membranes. However, it must not be used in applications where it will be permanently exposed to the weather or in environments where it is subject to prolonged moisture without adequate protection. The product is supplied treated to H3.2 using CCA or MCA, which provides resistance to fungal decay and insect attack, but it is not intended for use in situations requiring higher hazard class treatments or where direct ground contact occurs.

The performance of IBS Plyfloor is dependent on correct installation over a compliant substrate. It must be installed over timber framing designed in accordance with NZS 3604:2011 or NZS 3603:1993, with joist spacing not exceeding 400 mm centres for 19 mm thick sheets under 2 kPa load. It is not suitable for use over uneven or unsupported substrates, or where the moisture content of the framing exceeds 18% at the time of installation. Additionally, IBS Plyfloor should not be used in areas where it cannot be adequately sealed or protected with a suitable overlay, membrane, or impervious coating, especially in wet areas or where water splash is likely.

Designers and installers must also consider the limitations related to fixings and sheet layout. All fixings must be corrosion-resistant and installed at 150 mm centres around the perimeter and 300 mm centres through the body of the sheet, with a minimum edge distance of 7 mm. IBS Plyfloor is not suitable for use where these fixing requirements cannot be met or where the sheet edges are not adequately supported unless the plastic tongue is used. For applications requiring a high-quality finish, such as polyurethane coatings, additional care must be taken to protect the surface during and after installation. Any use outside of these parameters may compromise the structural integrity and durability of the product.

Environmental Impact

IBS Plyfloor is manufactured from sustainably sourced plantation pine and can be treated to H3.2 standards using either CCA (Copper Chrome Arsenate) or MCA (Micronized Copper Azole). These treatments extend the product's durability and resistance to biological degradation, reducing the need for frequent replacement and contributing to long-term resource efficiency. The use of plantation-grown timber supports responsible forestry practices and helps reduce pressure on native forests.

During manufacturing, IBS Plyfloor is produced with a focus on minimising waste and maximising material yield. Offcuts and by-products are often repurposed or recycled, and the plywood itself is engineered to deliver high strength-to-weight performance, reducing the volume of material required for structural applications. Additionally, the product's compatibility with a wide range of overlays and coatings allows for flexible design without the need for environmentally intensive materials.

To further reduce environmental impact, it is recommended that installers use dust extraction systems during cutting and sanding to minimise airborne particles and maintain air quality. Proper disposal of offcuts and unused treated timber should follow local environmental regulations, particularly due to the presence of treatment chemicals. When used and maintained correctly, IBS Plyfloor contributes to a durable, low-maintenance building envelope that supports sustainable construction practices.

13. Installation checklist

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

| Items to be checked | | ✓ Tick <input type="checkbox"/> | Notes |
|-----------------------------------|--|------------------------------------|-------|
| 1. Pre-Installation Checks | | | |
| 1 | Sheets inspected for defects (delamination, warping, damage) | <input type="checkbox"/> | |
| 2 | Sheets are H3.2 treated (CCA or MCA) if required | <input type="checkbox"/> | |
| 3 | Joist moisture content $\leq 18\%$ | <input type="checkbox"/> | |
| 4 | Joist spacing ≤ 400 mm centres | <input type="checkbox"/> | |
| 5 | Substrate is level and structurally sound | <input type="checkbox"/> | |
| 6 | All sheet ends supported (unless tongue & groove used) | <input type="checkbox"/> | |
| 7 | Expansion gaps of 2–3 mm planned between sheets | <input type="checkbox"/> | |
| 2. Installation | | | |
| 9 | Sheets laid perpendicular to joists in staggered pattern | <input type="checkbox"/> | |
| 10 | Tongue & groove edges engaged | <input type="checkbox"/> | |
| 11 | Fixings used: Fixing spacing: | <input type="checkbox"/> | |
| 12 | Pilot holes drilled where required | <input type="checkbox"/> | |
| 13 | Fix to battens or framework, not directly to masonry | <input type="checkbox"/> | |
| 14 | Always wear PPE during installation | <input type="checkbox"/> | |
| 3. Cutting and Handling | | | |
| 13 | Sheets cut with fine-tooth saw | <input type="checkbox"/> | |

| | | | |
|---------------------------------|---|--------------------------|--|
| 14 | Dust extraction used during cutting | <input type="checkbox"/> | |
| 15 | PPE worn (dust mask, safety glasses, hearing protection) | <input type="checkbox"/> | |
| 16 | Cut edges arris sanded or planed | <input type="checkbox"/> | |
| 4. Storage and Transport | | | |
| 15 | Store indoors in a dry, covered space | <input type="checkbox"/> | |
| 16 | Stack sheets flat on a level surface with supports. | <input type="checkbox"/> | |
| 17 | Avoid leaning sheets against walls to prevent warping. | <input type="checkbox"/> | |
| 19 | Keep sheets flat during transport | <input type="checkbox"/> | |
| 20 | Protect edges and corners from damage | | |
| 5. Finishing | | | |
| 21 | Fastener holes filled and sanded | <input type="checkbox"/> | |
| 22 | Surface sealed with impervious coating or membrane | <input type="checkbox"/> | |
| 23 | Wet area compatibility confirmed | <input type="checkbox"/> | |
| 24 | Prior to any Membrane being applied. Has there been a moisture check done and also a physical check to ensure that there is no bubbling present | <input type="checkbox"/> | |

Job Details

Site Location: _____

Date of Installation: _____

LBP Builder Name: _____

LBP Number: _____



IBS Plyfloor

Design & Installation Guide



Scan the QR code to view all
IBS Plyfloor documents.

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