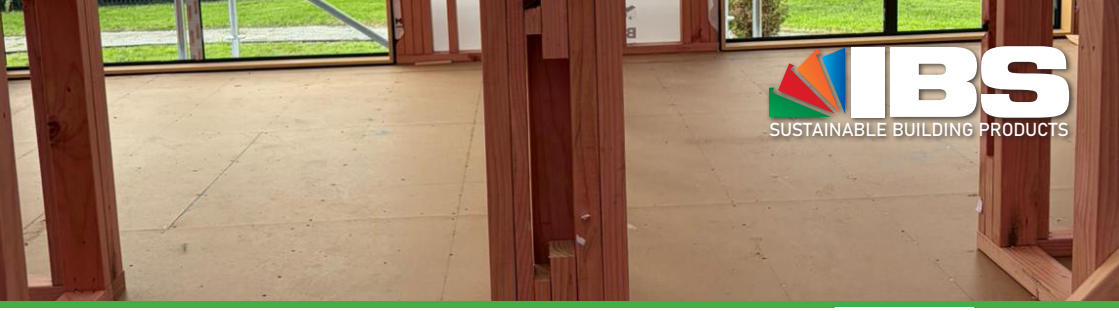

IBS FutureFloor™

CodeMark CMNZ70219

FOSB Moisture-Resistant Structural Flooring Panel

IBS FutureFloor™ is a Fine Oriented Strand Board (FOSB) panel engineered for flooring applications in New Zealand. It features:

Application

- ✓ Timber or steel framed flooring
- ✓ Ground and suspended floors
- ✓ Stair construction
- ✓ Shelving and cabinetry
- ✓ Wet areas (with compliant waterproof membrane)

Product Details

- ✓ Untreated: Yes
- ✓ Edge profile: Plastic T&G (long edges)
- ✓ Maximum exposure: 90 days

Technical Properties

Technical Properties	
Density	674 kg/m^3
Moisture Content	5.10%
Bending Strength (MOR)	24.64 MPa
Modulus of Elasticity (MOE)	3563 MPa
Internal Bond Strength	0.74 MPa
24h Water Swelling Rate	2.9%
Surface Water Absorption	108.5 g/m^2
Core Timber	Eucalyptus

Max point load in the middle of the space [kN] in span distance (e)	
450mm	16.4 [kN]
500mm	14.8 [kN]
600mm	12.3 [kN]

Our FutureFloor range

IBS FUTUREFloor Product Details			
Length (mm)	**Width (mm)**	**Thickness (mm)**	**Weight (kg)**
3600	1200	20	56.2
2400	1200	20	37.4

Key Performance

- ✓ High load-bearing capacity
- ✓ Reduced swelling and warping
- ✓ Dimensional stability
- ✓ Suitable for humid conditions (<20% moisture content in service)

Compliance

- ✓ Manufactured to EN13986:2004
- ✓ NZBC: B2 (Durability), E3/AS2 (Internal Moisture)
- ✓ PASS product certification
- ✓ ISO9001 manufacturing accreditation

IBS FutureFloor™

INSTALLATION REQUIREMENTS

Substrate

- ✓ Structurally sound, level, clean and dry
- ✓ Timber moisture ≤ 18% at installation
- ✓ All edges fully supported

Joist Spacing

- ✓ Maximum 600mm centres

LAYOUT & INSTALLATION

- ✓ Long edge laid perpendicular to joists
- ✓ Panels must span minimum 3 joists
- ✓ Stagger joints in brickwork pattern

Apply adhesive:

- ✓ 5mm bead on joists
- ✓ 2mm bead in T&G

KEY SITE CONDITIONS

- ✓ Minimum 550mm ground clearance (suspended floors)
- ✓ Panels must not be exposed > 90 days
- ✓ No water pooling allowedsions

LIMITATIONS (CRITICAL)

- ✓ Not for uncovered exterior use
- ✓ Not for decking or balconies
- ✓ Not on framing >18% moisture
- ✓ Not exposed >90 days during construction

FIXING REQUIREMENTS

Nails

- ✓ Minimum 60mm annular grooved
- ✓ Galvanised or stainless steel
- ✓ Edge spacing: 150mm centres
- ✓ Intermediate: 200mm centres

Screws

- ✓ Timber: 8g x 45mm self-tapping
- ✓ Steel: 10g x 45mm Tek screws

EXPANSION & MOVEMENT

- ✓ 10mm perimeter gap
- ✓ Expansion joints every 10m
- ✓ Large floors require additional expansion provisions

WET AREAS

- ✓ Allowed only with fully compliant waterproof membrane
- ✓ Membrane must cover floor and be coved at walls
- ✓ All sheet edges must be supported

THERMAL PERFORMANCE

- ✓ Thermal conductivity: 0.13 W/mK
- ✓ R-value (20mm): 0.15 $m^2 \cdot K/W$
- ✓ Not on framing >18% moisture
- ✓ Not exposed >90 days during construction

LIMITATIONS (CRITICAL)

- ✓ Must be installed strictly to IBS FutureFloor™ Design & Installation Guide
- ✓ Non-compliance may void warranty
- ✓ Service life aligned with 50-year NZBC durability requirement