For more information on any of our products and technical documentation:

uk.westfraser.com

General enquiries:
T: 01786 819 225

Technical advice:
SterlingOSB Zero
T: 01463 792 424

CaberFloor
CaberWood MDF
T: 01786 819 449

To request free samples, visit: uk.westfraser.com/samples

Engineered wood panels
Product range

West Fraser.
Station Road, Cowie,
Scotland, FK7 7BQ
EXCELLENT SERVICE LEVELS

REPUTATION FOR DELIVERING ON TIME

LOW CARBON FOOTPRINT
as all our products are made in the UK

CONSISTENT QUALITY

CARBON NEGATIVE

INTERACTIVE BROCHURE.
Quickly navigate to a desired section by clicking on the page base controls and side tabs.
As you’d expect from the UK’s No 1 producer of engineered wood panels, we are committed to playing our part in reducing our emissions, and we are greener than you might think. But being carbon neutral wasn’t enough for us, we wanted more, we wanted to be carbon negative.

We have been independently audited by Wood and independently verified and certified by the international EPD system Secretariat in Sweden and are proud that West Fraser’s European products have been certified as being net carbon negative. This means we lock up more CO₂e in our products than we emit making them. FACT.

**UK Gov net zero**

Carbon Dioxide (known as CO₂) is a greenhouse gas that is produced by almost everything humans do, and it increases the amount of heat that is trapped in the atmosphere, one of the major causes of climate change. The world is finally taking notice and the UK has pledged to be carbon neutral by 2050.

**Carbon negative. How we’ve done it.**

- Our products lock in 1.1 million tonnes of CO₂e every year
- For every 1m³ of OSB we make in the UK, 628kg of CO₂e is sequestered
- 74% of our primary energy use is from renewable sources
- All West Fraser’s UK manufacturing sites are certified to the coveted environmental criteria of ISO14001
- 99.5% of all raw material is used, with less than half a percent being wasted
- All our products are FSC® certified and can 100% be recycled
- Low energy LED lighting, with motion sensors, is being installed across our sites
- We’ve reduced our air miles by 19% from 2017-2019
- Our fleet of diesel company cars is being replaced with hybrid vehicles

**Carbon negative. Positive future.**
As one of the world’s leading manufacturers of engineered wood-based panel products, we are regularly seen as the No.1 choice in the construction, DIY, and furniture sectors. This has allowed us to become one of the most trusted and respected suppliers to the trade, with a wide range of panel products to suit a multitude of jobs and applications.

We are proud that our products are all certified net carbon negative, meaning we remove more carbon than we emit. Our engineered wood panel products help the UK construction comply with net zero targets. Use our net carbon negative products to offset building emissions.

**THE #1 CHOICE**
Stronger and tougher than ply with no knots, voids or de-lamination, the SterlingOSB Zero range is great value and ideal for structural applications.

**SterlingOSB® Zero**
Strength you can build on

- **Sheathing / Dry Lining**
- **Pitched Roofing**
- **Timber Frame Construction**
- **Flat Roofing**
- **DIY**
- **Flooring**
- **Sheds / Outbuildings**
- **Site Hoarding**
- **Interior Decorative**

---

**SterlingOSB® Zero OSB3**
For structural use in dry or humid load bearing conditions

**SterlingOSB® Zero StrongFix**
Quickly provides secure anchorage areas in metal C-stud dry lining

**SterlingOSB® Zero Fire Solutions**
Reduces the risk of fire spread during construction

---

Reduces the risk of fire spread during construction
Quickly provides secure anchorage areas in metal C-stud dry lining
T&G profile strengthens connecting panels for roofing and flooring

---

Panel products for every application...
A versatile range, designed for purpose

**SterlingOSB® Zero® OSB3**
Highly versatile board for structural use in load bearing dry or humid conditions.

- Uniform, high quality panels
- No knots, voids or de-laminating problems
- Stronger and tougher than most softwood plywood
- Easy to work with
- Nails can be driven as close as 8mm from panel edge without splitting
- Can be finished with most popular surface treatments
- The first and only UK made OSB with zero-added formaldehyde

**SterlingOSB® Zero® T&G**
Tongue and groove board with a smooth surface finish, for roofing and flooring.

- T&G profile helps elongate lifespan of boards by reducing movement
- Fully BBA approved
- Machined to exact tolerances
- Smooth surface designed to offer excellent finish with most surface treatments
- No knots, voids or de-laminating problems
- Stronger and tougher than most softwood plywood

### Product

<table>
<thead>
<tr>
<th>Product</th>
<th>Thickness mm</th>
<th>Length mm</th>
<th>Width mm</th>
<th>Edge profile</th>
<th>Sheets per pack</th>
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<td>TG2</td>
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<td>590</td>
<td>TG4</td>
<td>100</td>
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</tbody>
</table>

*The above table provides general guidance only. It is recommended that you conduct small scale pilot tests to ensure you have the correct grade for your end use.*

*Minimum order quantity applies*
**SterlingOSB® Zero® StrongFix**

Pre-prepared for quick installation in metal C-stud dry lining.

- Precision machined panels fit easily into metal C-stud frames with 600mm centres for a fast, flush-fit installation
- Provides a strong fixing point for fixtures and fittings up to 400kg anywhere on the panel
- All the inherent benefits of SterlingOSB Zero OSB3 – no knots or voids
- Meets BS 5234-2 standard and CE marked
- Ideal for fixing cabinets, radiators, wash basins, railings etc to stud walls

<table>
<thead>
<tr>
<th>Product</th>
<th>Thickness mm</th>
<th>Length mm</th>
<th>Width mm</th>
<th>Edge profile</th>
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*Minimum order quantity applies to colour choice other than white.

**SterlingOSB® Zero® Fire Solutions**

Developed specifically in response to the STA (Structural Timber Association) published guidelines to reduce fire spread during the construction phase.*

- Fully compliant with the Building Regulation fire protection requirements** to match the generic categories of timber frame in STA published guidelines
- Reduces potential radiant heat emissions to reduce the risk of fire spread to neighbouring buildings during construction
- All the inherent benefits of SterlingOSB Zero OSB3

**SterlingOSB Zero FS-300**

SterlingOSB Zero OSB3 15mm / 18mm with intumescent coating on both sides of the panel

- Suitable for FR Build decking

Product

<table>
<thead>
<tr>
<th>Product</th>
<th>Thickness mm</th>
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<td>2400</td>
<td>1200</td>
<td>SE</td>
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</table>

* SterlingOSB Zero Fire Solutions is intended to reduce the risk of fire spread during construction before other fire resistant measures are in place. Full details available upon request.

** When used in conjunction with insulation.

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SterlingOSB Zero conforms with

- **FSC**
- **BBA**
- **CE**
CaberFloor®
Systems you can trust

An advanced range of flooring products designed to fit all applications; new-build, replacement, domestic and commercial.

CaberFloor P5®
The UK’s most specified moisture resistant P5. Stable, durable and easy to lay, it’s not difficult to see why.

CaberDek®
P5 with a strong, waterproof and slip-resistant peelable film, that when removed leaves a clean finished floor.

CaberShield®
An advanced product with a permanent waterproof coating on both sides for flooring when the roof’s off.

CaberAcoustic®
P5 flooring panel designed to reduce both impact and airborne transmitted sounds.

CaberFix®
A range of powerful sealing and fixing systems specifically developed for CaberFloor flooring.

What’s best for you?
A guide to choosing the most suitable flooring system

- **Will the roof be in place?**
  - **Yes**
    - Do you require a protected covered floor?
      - **Yes**
        - Flooring Solution: CaberFloor P5®
        - Flooring that’s dependable, durable and easy to lay
      - **No**
        - Flooring Solution: CaberDek®
        - Flooring that’s protected with a waterproof peel-off film
    - **No**
      - Do you require a removable protective film to ensure a clean floor after build?
        - **Yes**
          - Flooring Solution: CaberShield®
          - An advanced flooring with permanent coating on both sides
        - **No**
          - Flooring Solution: CaberAcoustic®
          - Flooring that reduces impact and airborne transmitted sounds

Do you require a protected covered floor?

Would you prefer minimal mechanical fixings to create a silent floor?

Option 1:
- CaberFix D4 on joints and in joints
- CaberFix Joint&Joist on joints and in joints
- CaberFix Tape or option of CaberFix X-Treme Tape (for cold conditions)

Option 2:
- CaberFix D4 in T&G joints
- CaberFix Joint&Joist on joints and in joints

Do you require additional sound insulation?

CaberAcoustic®
Flooring that reduces impact and airborne transmitted sounds

Do you require a removable protective film to ensure a clean floor after build?

- **Yes**
  - Flooring Solution: CaberShield®
  - An advanced flooring with permanent coating on both sides
- **No**
  - Flooring Solution: CaberAcoustic®
  - Flooring that reduces impact and airborne transmitted sounds

**Flooring Solution:**
- An advanced flooring with permanent coating on both sides
- Flooring that’s protected with a waterproof peel-off film
- Flooring that’s dependable, durable and easy to lay

**Flooring Solution:**
- Provides a silent floor
- Requires minimal mechanical fixings
- Allows for a removable protective film to ensure a clean floor after build
- Can be used in T&G joints
- Can be used on joists and in joints

**Flooring Solution:**
- Provides additional sound insulation

**Flooring Solution:**
- Provides a protected covered floor

**Flooring Solution:**
- Provides a silent floor
- Requires minimal mechanical fixings
- Allows for a removable protective film to ensure a clean floor after build
- Can be used in T&G joints
- Can be used on joists and in joints

**Flooring Solution:**
- Provides additional sound insulation
Flooring solutions

**CaberFloor P5**

High-strength P5 wood particleboard for domestic and most other floors.
- Tongue and groove or square-edged profile
- Stable, durable, easy to lay
- Moisture-resistant
- Provides an excellent surface for subsequent floor laying operations
- Removes the need for intermediate noggins
- Strong and robust

**CaberDek**

P5 grade flooring protected from the elements and construction mess.
- Incorporates a strong waterproof and slip-resistant peelable film
- Impact, puncture and tear resistant film withstands high site traffic
- 44dB sound reduction when used in conjunction with leading I-beam and insulation manufacturers
- BBA approved for 42 days exposure* when installed with CaberFix
- Complies with BS EN312: part 5
- All the inherent benefits of CaberFloor P5

**CaberShieldPlus**

- P5 grade flooring protected from the elements and construction mess.
- Incorporates a strong waterproof and slip-resistant peelable film
- Impact, puncture and tear resistant film withstands high site traffic
- 44dB sound reduction when used in conjunction with leading I-beam and insulation manufacturers
- BBA approved for 42 days exposure* when installed with CaberFix
- Complies with BS EN312: part 5
- All the inherent benefits of CaberFloor P5

**CaberAcoustic**

An advanced product designed to keep you building in all weathers.
- Double-sided protection with a tough, permanent waterproof coating
- BBA approved for 60 days exposure* when used with CaberFix D4 adhesive
- Non-slip, safe working platform that withstands high site traffic
- Easy to slide into place with smooth underside
- Colour coded sides to make it easy to identify top surface
- All the inherent benefits of CaberFloor P5

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### Product Application Guide

**CaberWood MDF**

Panel products for every application

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**CaberFloor Panel products for every application**

**SterlingOSB Zero**
CaberFix®
Adhesives and tapes

A range of adhesives and tapes specifically developed for use with CaberFloor flooring.

CaberFix® D4
A one-bottle adhesive and sealing solution that provides BBA approval when used to install CaberDek and CaberShieldPlus.

CaberFix® Joint&Joist
A fast-setting PU adhesive and sealant that provides a silent, flexible bond and waterproof seal in CaberFloor flooring.

CaberFix® X-Treme Tape
A highly durable, acrylic tape specifically for installing CaberDek in harsh winter conditions.

CaberFix® D3
A powerful, fast-setting D3 PVA glue designed for sealing and fixing tongue and groove flooring.

CaberFix® Tape
A polyethylene-coated cloth tape for sealing CaberDek perimeters to walls and sealing joints.

*When installed according to manufacturer’s instructions

CaberShieldPlus and CaberFix D4 flooring system meets BBA approval for up to 60 days exposure*.
Adhesives and sealing solutions

**CaberFix® D4**
A one-bottle adhesive and sealing solution that provides BBA approval* on CaberDek and CaberShieldPlus.
- Bonds T&G joints, flooring to joists, and seals exposed perimeter and edges
- Full BBA approval for up to 60 days exposure when installed according to manufacturer’s instructions
- Solvent-free, one-component polyurethane adhesive
- Foaming adhesive can be seen in the joints making sure a seal is made
- Easy to use, easy to hold 1kg bottle with easy flow nozzle
- Meets BS EN 204

**CaberFix® D3**
Powerful, water resistant D3 glue designed for sealing and fixing tongue and groove flooring.
- Fast-setting, it forms a strong, hard and rigid glue line
- D3 PVA has superior properties over standard PVA glues
- No fillers required
- Full BBA approval for 42 days exposure when installed according to manufacturer’s instructions
- Conforms to DIN EN 204 D3 and BS 476 part 8

**CaberFix® Joint&Joist**
A fast-setting, strong PU adhesive and sealant designed for use with CaberFloor flooring.
- Provides a strong, silent bonding layer between floor and joists
- Creates a waterproof seal in T&G joints
- Bonds in damp conditions to a variety of materials
- Fast-setting and easy to use
- Strong and flexible bond with good gap-filling properties

**CaberFix® X-Treme Tape**
Highly durable and scuff-resistant flooring joint tape, formulated to withstand severe winter conditions.
- Bonds well in damp conditions and doesn’t lift when wet
- Will work in conditions up to, and including, minus 21 degrees C
- High tack strength won’t lift in tough working conditions
- Provides BBA approval for 42 days exposure when installed as part of the CaberFix sealing and fixing system*

**CaberFix® Tape**
Polyethylene-coated cloth tape for sealing CaberDek flooring during construction.
- 100% waterproof for sealing exposed joints and perimeter edges
- Easy to tear and conform to irregular surfaces
- UV resistant for durability
- Provides BBA approval for 42 days exposure when installed as part of the CaberFix sealing and fixing system*

---

**Product quantities**

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<thead>
<tr>
<th>Product</th>
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<td>CaberFix Joint&amp;Joist</td>
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*When installed according to manufacturer’s instructions

**CaberFloor** conforms with

- [FSC](https://www.fsc.org/)
- CE

**Dependent on type**

---

*The above table provides general guidance only. For further advice contact technical.
CaberWood MDF®

Legendary performance

The versatile MDF range for quality finishing. Designed as an economical alternative to hardwood without the inherent defects of knots or grains.
General purpose MDF, renowned for its performance

**CaberWood MDF Trade**

High quality, lightweight MDF with enhanced smooth surface and consistent density.
- Enhanced surface gives a great finish – ideal for painting, paper foils and veneers.
- Consistent density ensures it saws, drills, shapes and routs cleanly and easily.
- Engineered from UK sourced wood and BS EN 622 parts 1 and 5 accredited.

**CaberWood MDF Trade MR**

Lightweight and moisture resistant board for general purpose joinery.
- Performs well in occasionally wet or humid environments.
- High quality fibre and internal bond strength gives excellent holding of screws and fastenings.
- Saws, drills, shapes and routs cleanly and easily.
- No splintering or chipping.

---

**Product details**

<table>
<thead>
<tr>
<th>Thickness (mm)</th>
<th>Length (mm)</th>
<th>Width (mm)</th>
<th>Edge profile</th>
<th>Sheets per pack</th>
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**CaberWood MDF Trade MR**

CaberWood MDF Trade is perfect for interior joinery where a light panel and fixing strength are essential.

---

**Recommended product**

<table>
<thead>
<tr>
<th>Shop Fitting</th>
<th>General purpose joinery</th>
<th>Furniture</th>
<th>Wall paneling</th>
<th>Ceiling &amp; bathroom joinery</th>
<th>Exhibition displays</th>
<th>Caravan manufacture</th>
<th>Door manufacturing</th>
<th>Fire surrounds</th>
<th>Window boards</th>
<th>Mouldings</th>
<th>Wrap mouldings</th>
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</tbody>
</table>

---

*The above table provides general guidance only. It is recommended that you conduct small scale pilot tests to ensure you have the correct grade for your end use.*

---

Recommended products for every application.
Premium quality and well suited to detailed working

CaberWood MDF Pro

A premium grade MDF with a consistent density for high quality finishing,
• Straight-forward machine and surface finishing
• Consistent density ensures cutting and routing need minimal finishing
• Excellent holding of screws and fastenings
• Saws and drills easily, shapes and routs cleanly

CaberWood MDF Pro MR

Premium grade MDF that performs well in occasionally wet or humid environments.
• Consistent high density across the board allowing the most intricate edge profiling and surface routing
• Enhanced, smooth surface is ready for paint, paper foils and veneers
• High quality fibres and internal bond strength for superior holding of screws and fastenings

CaberWood MDF Industrial

Denser design for deep profiles and consistent performance.
• Suitable for use with all woodworking machines and hand tools
• High density design allows advanced finishing and deep, angular profiles
• Gives a superior routed finish
• Enhanced, smooth surface is ready for paint, paper foils and veneers
• Moisture resistant, it performs even in occasionally wet / humid environments
NB CaberWood MDF Industrial MR is un-dyed

CaberWood MDF Pro's consistent density ensures a high quality finish.

CaberWood MDF Pro (SE)

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<td>3660 × 1220</td>
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CaberWood MDF Pro MR (SE)

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<th>Panel Size (mm)</th>
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<th>12</th>
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<td>32</td>
<td>24</td>
<td>18</td>
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</tbody>
</table>

*Cabers Wood MDF Pro MR (SE) is made to order. Please contact our product support team on: 01786 819 449

*Cabers modifications to the surface of the board, such as paints, adhesives, laminates etc may affect the fire retardancy performance.
Panel products for every application

**SterlingOSB Zero**
Strength you can build on

Strong, consistent and great value, the SterlingOSB Zero range is ideal for structural applications.

- SterlingOSB Zero OSB3
- SterlingOSB Zero T&G
- SterlingOSB Zero StrongFix
- SterlingOSB Zero Fire Solutions

**CaberFloor**
Systems you can trust

Versatile flooring system for domestic and commercial floors, CaberFloor is stable, durable and easy to lay.

- CaberFloor P5
- CaberDek
- CaberShieldPlus
- CaberAcoustic
- CaberFix D4 (Adhesive)
- CaberFix D3 (Adhesive)
- CaberFix Joint&Joist (Adhesive)
- CaberFix Tape
- CaberFix X-Treme Tape

**CaberWood MDF**
Legendary performance

Engineered with consistent density for multiple use throughout the shop fitting, construction and furniture industries.

- CaberWood MDF Trade
- CaberWood MDF Trade MR
- CaberWood MDF Pro
- CaberWood MDF Pro MR
- CaberWood MDF Industrial

---

*The above table provides general guidance only. It is recommended that you conduct small scale pilot tests to ensure you have the correct grade for your end use.*
Roofing
Flat roof decking and pitched roof sarking

For sarking use SterlingOSB Zero OSB3 T&G. No knots or voids means reliable fixings across the board and the T&G profile helps increase the lifespan of the roof.
SterlingOSB Zero T&G

Specifically designed for flat roofing and pitched roofing, it is quick and easy to install, while ensuring full compliance to BS 6229:2003

Roofing guidance

The following roofing specific advice should be noted:

Roofing

• Panels must be laid with the long edges at 90° to supports, and short edge joints must be staggered
• All short edges must be supported on joists or noggins
• Panel edges must bear approx. 20mm into joists
• Nailing must be at least 8mm from the panel edges
• The tongue and groove edge does not require to be continuously supported
• SterlingOSB Zero’s smooth surface gives improved adhesion qualities for all flat roofing applications
• Fully BBA approved

Fixings

SterlingOSB Zero T&G should be fixed using approx. 3mm diameter ring-shank nails or screws, 50mm long at 100mm centres across the supporting joists.

Expansion gaps

It is well documented and strongly recommended that additional movement gaps are incorporated in large roof areas or long runs. An expansion provision should be allowed of 2mm per metre plus 1mm for every metre above 12m of the width or breadth of the area. On large roofs, a movement joint should be included every 12m approximately in either direction or at the particular requirement of the advising Structural Design Engineers / Architects. This movement joint should be approx. 25mm.

Ventilation

Design and applications of panels in flat roof decking is covered in section 2.5 of ‘Panel Guide’ issued by Wood Panel Industries Federation (WPIF).

Safety

As roof decking may be slippery when wet or covered with frost, snow, ice or sawdust, installers should wear rubber soled footwear. The use of a safety harness is recommended.

Coverings

A range of proprietary products may be used to cover SterlingOSB Zero T&G - refer to appropriate trade associations for guidance e.g. The National Federation of Roofing Contractors who can be contacted on 02076 387 663.

Specification guidance

Further guidance on the selection and use of wood-based panels and other essential design information can be found in:

- WPIF Panel Guide, BS 6229

For further details please contact West Fraser’s UK technical support or;

- www.wpif.org.uk
- www.bbacerts.co.uk

For further product information, see page 10
For technical product information, see page 71
Homes, schools, hospitals and offices. No matter what size or shape of floor you are laying, CaberFloor is an advanced product range designed to fit all applications.
High-strength flooring systems for domestic and commercial flooring, they are stable, durable and easy to lay while complying to BS EN 312.

**Recommended products:**
- **CaberFloor P5**
- **CaberDek**
- **CaberShield**
- **CaberAcoustic**
- **CaberFix**

**Application**
- **Commercial**
- **Refurbishment**
- **Domestic new build**
- **Dry Domestic**

**Thickness (mm)**

<table>
<thead>
<tr>
<th></th>
<th>CaberFloor P5</th>
<th>CaberDek</th>
<th>CaberShield</th>
<th>CaberShieldPlus</th>
<th>CaberAcoustic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry Domestic</td>
<td>•</td>
<td>•</td>
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<td>•</td>
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<tr>
<td>Domestic new build</td>
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<tr>
<td>Refurbishment</td>
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<tr>
<td>Commercial</td>
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<td></td>
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<td>•</td>
</tr>
</tbody>
</table>

*The above table provides general guidance only. For further advice contact technical.*

For further product information, see page 16
For technical product information, see page 82
Choose the most suitable flooring system

Will the roof be in place?

- Yes
  - Do you require a protected covered floor?
    - No
      - Flooring Solution: CaberFloor P5
      - Flooring that’s dependable, durable and easy to lay
    - Yes
      - Flooring Solution: CaberDek
      - Flooring that’s protected with a waterproof peel-off film
      - Would you prefer minimal mechanical fixings to create a silent floor?
        - No
          - CaberFix D3 on joists and in joints
        - Yes
          - Option 1: CaberFix D4 on joists and in joints
          - Option 2: CaberFix Joint&Joist on joists and in T&G joints
  
- No
  - Flooring Solution: CaberShield
  - An advanced flooring with permanent coating on both sides
  - Would you prefer minimal mechanical fixings to create a silent floor?
    - No
      - CaberFix D3 in T&G joints
    - Yes
      - CaberFix Joint&Joist on joists and in T&G joints
  
Step 1. Adhesive I-joist application

- Apply one continuous bead of CaberFix Joint&Joist to the top of the joist or I-joist
- Use CaberFix Joint&Joist on joists and noggins in the area that is about to be directly laid
- Use a 6mm bead

Step 2. Secret fixing & adhesive application

- Continue laying boards in a staggered format. Panels should be secretly screwed through the tongue at T&G joints at every joist
- Apply a 6mm bead of CaberFix Joint&Joist to T&G joints as shown

Step 3. Fixings per board / perimeter & sealing

- Fix perimeter as per diagram
- Leave minimum 10mm expansion gap at perimeter

Floor fixing diagram (Mechanical fixing positions)

- Option 1: This rectangle represents one 2400 x 600mm T&G board
- Option 2: central boards 5 per board
- Other: perimeter boards 16 per board

CaberFloor P5 installation quick guide

CaberFloor P5
An advanced flooring with permanent coating on both sides

CaberFix Joint&Joist
An adhesive and sealant that will adhere to a wide variety of materials creating a strong, silent, and flexible bond.

- Provides strength, stability and flexibility when joining CaberFloor floors and joists
- Excellent resistance to temperature extremes
- Silent bonding layer between floors and joists
- Bonds in damp conditions to a variety of materials; 100% waterproof sealing
CaberDek and CaberShieldPlus are best used with CaberFix D4, an adhesive that bonds flooring to joists, T&G joints and seals exposed perimeter and edges to provide full BBA approval for up to 60 days exposure.

For detailed CaberFloor flooring installation advice, see page 86

---

**CaberDek with D4 installation instructions**

**Step 1. Adhesive I-joist application**

Apply one continuous ~6mm bead of CaberFix D3 adhesive to the top of the joist or I-joist. Use CaberFix D4 adhesive on joists and noggins in the area that is about to be directly laid.

**Step 2. Perimeter panel fixing**

Panels should be fixed at the perimeter, using annular ringshank nails or screws at 200–300mm centres. Fix flush or just below panel surface.

**Step 3. Adhesive T&G application**

A liberal application of CaberFix D4 adhesive should be made to both the tongue and groove of the profile joint of each panel to ensure that the entire joint is bonded. When the boards are pushed together a small amount of adhesive should squeeze out of the T&G, sufficient to cover any exposed chipboard on the joint.

**Step 4. Panel fixings**

Continue laying boards in a staggered format. Panels may be secretly nailed through the tongue at T&G joints. For optimum performance we recommend a minimum of 5 mechanical fixings per 22 × 2400 × 600mm board when fitted at 600mm centres, i.e. 1 fixing per joist.

**Step 5. Complete sealing**

When installing CaberDek, any film that has peeled back from edges or T&G should be stuck back down using CaberFix D4 adhesive. For complete weather-tightness apply CaberFix D4 to exposed nail heads, cut edges and any exposed perimeter edges.

**Step 6. Clean down**

When all construction and decoration work is complete and the building is weather tight, the deck should be cleaned down. Remove the peel-off film by pulling slowly but firmly from the short end.

---

**CaberDek with CaberFix D3 + Joint&Joist + Tape installation instructions**

**Step 1. Adhesive I-joist application**

Apply one continuous ~6mm bead of CaberFix Joint&Joist adhesive to the top of the joist or I-joist, using a skeleton gun. Use CaberFix Joint&Joist adhesive on joists and noggins in the area that is about to be directly laid.

**Step 2. Perimeter panel fixing**

Panels should be fixed at perimeter using annular ringshank nails or screws at 200–300mm centres. Fix flush or just below panel surface 25mm from edge of board.

**Step 3. Adhesive T&G application**

A liberal application of CaberFix D3 PVA adhesive should be made to both the tongue and groove of the profile joint of each panel to ensure that the entire joint is bonded.

**Step 4. Panel fixings**

Continue laying boards in a staggered format. Panels may be secretly nailed through the tongue at T&G joints. For optimum performance we recommend a minimum of 5 mechanical fixings per 22 × 2400 × 600mm board when fitted at 600mm centres. i.e. 1 fixing per joist.

**Step 5. Taping**

Immediately after a run of panels have been fixed, all board joints, nail runs and exposed edges around the perimeter should be sealed using CaberFix Tape or in harsh conditions with CaberFix X-Treme tape.

**Step 6. Clean down**

When all construction and decoration work is complete and the building is weather tight, the deck should be cleaned down. Remove the peel-off film by pulling slowly but firmly from the short end.

---

CaberDek is perfect for situations where flooring is laid before the building is weather tight and whilst there is still likelihood of construction mess.

---

**CaberFix® D4**

CaberDek and CaberShieldPlus are best used with CaberFix D4, an adhesive that bonds flooring to joists, T&G joints and seals exposed perimeter and edges to provide full BBA approval for up to 60 days exposure.

- Foaming adhesive – easy to see T&G joints are sealed
- BBA approved for up to 60 days exposure*
- One adhesive – making the job more efficient and cost-effective

*When installed according to manufacturer’s instructions. 60 days weather exposure applies to use with CaberShieldPlus only.
Installation quick guide

CaberShieldPlus with D4

Step 1. Adhesive I-joist application
Apply one continuous ~6mm bead of CaberFix D4 adhesive to the top of the I-joist or I-joist. Use CaberFix D4 adhesive on joists and noggins in the area that is about to be directly laid.

Step 3. Adhesive T&G application
A liberal application of CaberFix D4 adhesive should be made to both the tongue and groove of the profile joint of each panel to ensure that the entire joint is bonded. When boards are pushed together a small amount of adhesive should be squeezed out of the T&G. This seals the joint at the T&G.

Step 4. Panel fixings
Continue laying boards in a staggered format. Panels may be secretly nailed through the tongue at T&G joints. For optimum performance we recommend a minimum of 5 mechanical fixings per 22 × 2400 × 600mm board when fitted at 600mm centres, i.e. 1 fixing per joist.

Step 5. Complete sealing
For complete weather-tightness apply CaberFix D4 to exposed nail heads, cut edges and any exposed perimeter edges.

CaberAcoustic with D3

Step 1. Deck preparation
Before laying CaberAcoustic on top of a timber floor, ensure all previous adhesives are set and the floor is cleaned down, level and dry. If laying on a concrete base, ensure a damp-proof membrane is used first.

Step 2. Perimeter flanking
Place the flanking strip against the wall /perimeter of the floor – no fixings are required.

Step 3. Perimeter panel positioning
Lay the first CaberAcoustic panel (felt side down) and ensure the panel is pressed firmly against the flanking strip to create an airtight seal.

Step 4. T&G adhesive application
Continue to lay CaberAcoustic boards in a staggered format and apply a 6mm bead of CaberFix D3 to the T&G joints.

Step 5. Complete sealing
Ensure the floor is well sealed against air gaps. There must be no fastenings through the floating floor, with the only exception being where two panels join which have only cut edges, for example across a door opening.

Apply one continuous ~6mm bead of CaberFix D4 adhesive to the top of the joist or I-joist. Use CaberFix D4 adhesive on joists and noggins in the area that is about to be directly laid.

Panels should be fixed at perimeter, using annular ringshank nails or screws at 200–300mm centres. Fix flush or just below panel surface.

When all construction and decoration work is complete and the building is weather tight, the deck should be cleaned down. Once dry, any excess adhesive should be removed with a scraper.

For detailed CaberFloor flooring technical advice, see page 82
Forget about knots or voids spoiling your plans, SterlingOSB Zero lets you just get on with the job.
Walling / Partitioning
Recommended products:

SterlingOSB® Zero
OSB3
SterlingOSB® Zero
StrongFix

Easy to saw, drill, nail, plane or file, SterlingOSB Zero is perfect for structural use in dry and humid conditions.

Walling guidance
The following walling specific advice should be noted:

Fixings
- Panels must be laid with the long edges at 90° to supports and short edge joints must be staggered
- All short edges must be supported on studs or noggins
- Panel edges must bear approx. 18mm onto joists
- Nailing must be at least 8mm from the panel edges
- Panels should be fixed using approx. 3mm ring-shank nails or screws whose length is 2.5 times the thickness of the panel

Expansion gaps
With all square edged panels a 3mm expansion gap should be allowed between boards and edges.

Spans & nailing centres
Sheathing

<table>
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<tr>
<th>Thickness (mm)</th>
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</thead>
<tbody>
<tr>
<td>Max. span* (domestic)</td>
<td>610 mm</td>
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<tr>
<td>Nail centres (edges)</td>
<td>150 mm</td>
</tr>
<tr>
<td>Nail centres (intermediate)</td>
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</tr>
<tr>
<td>Weight (approx.)</td>
<td>3.5 kg/m²</td>
</tr>
<tr>
<td>Face smooth nail retention**</td>
<td>158 N</td>
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<tr>
<td>Edge screw retention</td>
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<tr>
<td>Face screw retention</td>
<td>625 N</td>
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</tbody>
</table>

*The above table provides general guidance only. It is recommended that you conduct small scale pilot tests to ensure you have the correct grade for your end use.
High grade boards speed up construction because minimal finishing is required.
Timber Frames

Recommended products:

- **SterlingOSB® Zero**
  - OSB3
  - T&G
- **SterlingOSB® Zero**
  - StrongFix
- **CaberFloor P5**
- **CaberDek**
- **CaberShield**
- **CaberFix**
- **SterlingOSB® Zero Fire Solutions**
- **CaberAcoustic**

SterlingOSB Zero and CaberFloor include a wide range of grades specifically designed for structural use and with unique properties to speed up the construction phase.

Application:

<table>
<thead>
<tr>
<th>Application</th>
<th>SterlingOSB® Zero OSB3</th>
<th>SterlingOSB® Zero T&amp;G</th>
<th>SterlingOSB® Zero StrongFix</th>
<th>SterlingOSB® Zero Fire Solutions</th>
<th>CaberFloor P5</th>
<th>CaberDek</th>
<th>CaberShieldPlus</th>
<th>CaberAcoustic</th>
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</thead>
<tbody>
<tr>
<td>Wall sheathing (humid conditions)</td>
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<td>Internal hoarding / decorative (dry conditions)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Dry lining / Metal C-stud</td>
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<tr>
<td>Roofing (pitched and flat)</td>
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<tr>
<td>Fire reduction during construction phase</td>
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<tr>
<td>Domestic flooring (dry conditions)</td>
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</tr>
<tr>
<td>Domestic flooring (clean finish in exposed conditions)</td>
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</tr>
<tr>
<td>Domestic flooring (exposed construction phase)</td>
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</tbody>
</table>

*The above table provides general guidance only. It is recommended that you conduct small scale pilot tests to ensure you have the correct grade for your end use. CaberAcoustic is an overlay board.

For further product information, see page 10
For technical product information, see page 71
The inherent strength of SterlingOSB Zero makes it the natural choice for securing a site or property.
Security

Recommended products:

**SterlingOSB Zero OSB3**

Naturally strong and hard-wearing, SterlingOSB Zero OSB3 is tougher than most softwood plywood and is easy to use with no knots, voids or delaminating problems.

**Features and benefits**

- Highly versatile structural board that can be used in load bearing situations
- Stronger and tougher than most softwood plywood
- Quick and easy to work with giving added site security
- Can be finished with most popular surface treatments or marketing messages
- The first and only UK-made OSB with zero-added formaldehyde
- Made from responsibly sourced timber with a low carbon footprint

*The above table provides general guidance only. It is recommended that you conduct small scale pilot tests to ensure you have the correct grade for your end use.*

**SterlingOSB Zero**

For further product information, see page 10

For technical product information, see page 71

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Application*

<table>
<thead>
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<th>Site hoarding</th>
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</thead>
<tbody>
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<td>Fencing</td>
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</table>

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*For further product information, see page 10

For technical product information, see page 71*
Achieving high quality results against a deadline is of paramount importance, and premium grade products ensure a precision finish every time.
Shopfitting
Recommended products:

- **CaberWood MDF**
  - Trade
  - Trade MR
- **CaberWood MDF**
  - Pro
  - Pro MR
- **CaberWood MDF**
  - Industrial
- **CaberFloor P5**
  - CaberDek
- **CaberShield**
  - CaberAcoustic
- **CaberFix**
- **SterlingOSB Zero**
  - OSB3
  - T&G

CaberWood MDF, CaberFloor and SterlingOSB Zero include a wide range of grades to suit commercial applications where timing and quality are primary factors.

<table>
<thead>
<tr>
<th>Best product for application</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Application</strong></td>
</tr>
<tr>
<td>Commercial flooring</td>
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</tbody>
</table>

<table>
<thead>
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<th>Thickness range (mm) **</th>
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<td>12-25</td>
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<td>6-38</td>
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<td>15-25</td>
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<td>22</td>
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<tr>
<td>32</td>
</tr>
<tr>
<td>9-22</td>
</tr>
</tbody>
</table>

* The above table provides general guidance only. It is recommended that you conduct small scale pilot tests to ensure you have the correct grade for your end use.

** Other thicknesses are available on request.

CaberWood MDF
For further product information, see page 24
For technical product information, see page 94

CaberFloor
For further product information, see page 16
For technical product information, see page 82
Consistent density and FSC® certified are essential qualities in the furniture industry.

Furniture

High volume production of domestic and commercial furniture
CaberWood MDF and SterlingOSB Zero are some of the most popular materials in the furniture industry. With their consistent density providing an ease and speed of workability, they form the backbone and fascias of a huge variety of items.

**Furniture**

**Recommended products:**

- **CaberWood MDF®**
  - Trade
  - Trade MR
- **CaberWood MDF®**
  - Pro
  - Pro MR
- **CaberWood MDF®**
  - Industrial
- **SterlingOSB Zero®**
  - OSB3

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<table>
<thead>
<tr>
<th>Application*</th>
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</thead>
<tbody>
<tr>
<td>Chairs, tables, cabinets</td>
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<tr>
<td>Bed frames</td>
</tr>
<tr>
<td>Kitchen and bathroom furniture</td>
</tr>
<tr>
<td>Wardrobes</td>
</tr>
<tr>
<td>Shelving</td>
</tr>
<tr>
<td>Couch frames</td>
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</table>

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*The above table provides general guidance only. It is recommended that you conduct small scale pilot tests to ensure you have the correct grade for your end use.

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For further product information, see page 24
For technical product information, see page 94

SterlingOSB Zero
For further product information, see page 10
For technical product information, see page 71
Highly durable and exempt from phytosanitary regulation, SterlingOSB Zero is perfect for international shipping crates.

With such a consistent density, machines can be easily set-up for complex routs and profiling.
Though individually unique, CaberWood MDF and SterlingOSB Zero both share the common benefit of consistent density, making tool set-up simple and finishing time minimal.

Moulding and packaging
Recommended products:

- CaberWood MDF® Trade
- CaberWood MDF® Trade MR
- CaberWood MDF® Pro
- CaberWood MDF® Pro MR
- CaberWood MDF® Industrial
- SterlingOSB® Zero® OSB3

Best product for application

<table>
<thead>
<tr>
<th>Application</th>
<th>CaberWood MDF Trade</th>
<th>CaberWood MDF Trade MR</th>
<th>CaberWood MDF Pro</th>
<th>CaberWood MDF Pro MR</th>
<th>CaberWood MDF Industrial</th>
<th>SterlingOSB Zero OSB3</th>
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<tr>
<td>Packaging</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Pallets / crates</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
</tbody>
</table>

*The above table provides general guidance only. It is recommended that you conduct small scale pilot tests to ensure you have the correct grade for your end use.

For further product information:
- CaberWood MDF: page 24
- For technical product information: page 94
- SterlingOSB Zero: page 10
- For technical product information: page 71
At West Fraser, our experienced technical team is on hand to deal with enquiries from architects, builders, contractors – in fact anyone involved in the specification or use of West Fraser’s engineered wood-based panels.

**MSDS**
Material Safety Data-Sheets are available for all West Fraser products. Please contact West Fraser Technical Support or visit: uk.westfraser.com

**Technical Support**
For specialist product advice:

**SterlingOSB Zero**
Steve McTaggart
T: 01786 819 225

CaberFloor
CaberWood MDF
Alan Kirkpatrick
T: 01786 819 205

**General Enquiries**
For general West Fraser information:
T: 01786 819 225

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**Technical information**

### SterlingOSB Zero technical data

#### Product specification

<table>
<thead>
<tr>
<th>Property</th>
<th>EN Standard</th>
<th>Unit</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tolerance on the mean density within a board</td>
<td>323</td>
<td>mm</td>
<td>± 15%</td>
</tr>
<tr>
<td>Length / Width Deviation</td>
<td>324-1</td>
<td>mm</td>
<td>± 3</td>
</tr>
<tr>
<td>Thickness Deviation – unsanded</td>
<td>324-1</td>
<td>mm</td>
<td>10.6</td>
</tr>
<tr>
<td>Thickness Deviation – sanded</td>
<td>324-1</td>
<td>mm</td>
<td>10.3</td>
</tr>
<tr>
<td>Squareness – tolerance</td>
<td>324-2</td>
<td>mm/m</td>
<td>2</td>
</tr>
<tr>
<td>Straightness</td>
<td>324-2</td>
<td>mm/m</td>
<td>1.5</td>
</tr>
<tr>
<td>Linear Expansion (65%- 85% relative humidity)</td>
<td>13986</td>
<td>%</td>
<td>0.12</td>
</tr>
<tr>
<td>Thermal Conductivity ‘K’ Value</td>
<td>13986</td>
<td>W/(m.k)</td>
<td>0.13</td>
</tr>
<tr>
<td>Reaction to Fire (BS EN 135 01-1)</td>
<td>13986</td>
<td>D</td>
<td></td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>120</td>
<td>mg/m³</td>
<td>&lt;8</td>
</tr>
</tbody>
</table>

#### Load bearing for use in humid conditions:

Requirements for specified mechanical & swelling properties

<table>
<thead>
<tr>
<th>Property</th>
<th>EN Standard</th>
<th>Unit</th>
<th>OSB3 Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moisture Content</td>
<td>322</td>
<td>%</td>
<td>2-12</td>
</tr>
<tr>
<td>Bending Strength – major axis</td>
<td>310</td>
<td>N/mm²</td>
<td>22</td>
</tr>
<tr>
<td>Bending Strength – minor axis</td>
<td>310</td>
<td>N/mm²</td>
<td>11</td>
</tr>
<tr>
<td>Modulus of Elasticity in bending – major axis</td>
<td>310</td>
<td>N/mm³</td>
<td>3500</td>
</tr>
<tr>
<td>Modulus of Elasticity in bending – minor axis</td>
<td>310</td>
<td>N/mm³</td>
<td>1400</td>
</tr>
<tr>
<td>Internal Bond (IB)</td>
<td>319</td>
<td>N/mm²</td>
<td>0.34</td>
</tr>
<tr>
<td>Thickness Swelling (24hr immersion)</td>
<td>317</td>
<td>%</td>
<td>15</td>
</tr>
<tr>
<td>Bending Strength after cyclic test – major axis</td>
<td>321+ 310</td>
<td>N/mm²</td>
<td>9</td>
</tr>
</tbody>
</table>

#### Product sizes available

<table>
<thead>
<tr>
<th>Product</th>
<th>Size (mm)</th>
<th>Thickness (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SterlingOSB Zero OSB3 – Square Edged</td>
<td>2400 x 1200</td>
<td>9, 11, 15, 18</td>
</tr>
<tr>
<td></td>
<td>2440 x 1220</td>
<td>9, 11, 15, 18</td>
</tr>
<tr>
<td></td>
<td>2700 x 1200</td>
<td>9</td>
</tr>
<tr>
<td>SterlingOSB Zero OSB3 T&amp;G – 2 edges</td>
<td>2400 x 1200</td>
<td>18, 22</td>
</tr>
<tr>
<td></td>
<td>2440 x 1220</td>
<td>18, 22</td>
</tr>
<tr>
<td>SterlingOSB Zero OSB3 T&amp;G – 4 edges</td>
<td>2400 x 590</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>2440 x 590</td>
<td>18</td>
</tr>
</tbody>
</table>

Other sizes are available on request.

#### Boards per pack

<table>
<thead>
<tr>
<th>Thickness (mm)</th>
<th>Number of boards</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>100</td>
</tr>
<tr>
<td>11</td>
<td>82</td>
</tr>
<tr>
<td>14</td>
<td>60</td>
</tr>
<tr>
<td>15</td>
<td>60</td>
</tr>
<tr>
<td>18</td>
<td>50</td>
</tr>
<tr>
<td>22</td>
<td>41</td>
</tr>
</tbody>
</table>

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**<< PREVIOUS PAGE INDEX NEXT PAGE >>**
SterlingOSB Zero technical data continued

Characteristic values of boards complying with BS EN 300:

OSB3: Load bearing boards for use in humid conditions

This gives information on the characteristic values of both mechanical properties and density for those wood based panels the values of which, unless specified to the contrary, have been determined using the sampling techniques set out in BS EN 1058 and the testing procedures given in BS EN 789.

The minimum characteristic values for OSB complying with BS EN 300.

When OSB3 is used structurally under service class 1 conditions, the characteristic values of the mechanical properties and density given in the tables below will apply. These require to be modified according to EC5 for duration of load ($k_{mod}$, $k_{def}$).

When OSB3 is used structurally under service class 2 conditions, the characteristic values of the mechanical properties and density given in Table 1 shall be modified according to EC5 for both service class and duration of load ($k_{mod}$, $k_{def}$).

### Characteristic density (kg/m³) and strength (N/mm²) values

<table>
<thead>
<tr>
<th>Thickness (mm)</th>
<th>Density</th>
<th>Bending</th>
<th>Tension</th>
<th>Compression</th>
<th>Panel Shear</th>
<th>Planar Shear</th>
</tr>
</thead>
<tbody>
<tr>
<td>$t_{nom}$</td>
<td>$p$</td>
<td>$f_n$</td>
<td>$f_t$</td>
<td>$f_c$</td>
<td>$f_v$</td>
<td>$f_r$</td>
</tr>
<tr>
<td>&gt; 6 to 10</td>
<td>550</td>
<td>18.0</td>
<td>9.0</td>
<td>9.0 13.9</td>
<td>6.8</td>
<td>1.0</td>
</tr>
<tr>
<td>&gt; 10 to 18</td>
<td>550</td>
<td>16.4</td>
<td>8.2</td>
<td>9.4 15.4</td>
<td>6.8</td>
<td>1.0</td>
</tr>
<tr>
<td>&gt; 18 to 25</td>
<td>550</td>
<td>14.8</td>
<td>7.4</td>
<td>9.0 14.6</td>
<td>6.8</td>
<td>1.0</td>
</tr>
</tbody>
</table>

The 5% characteristic values for stiffness should be taken as 0.85 times the mean values given in the tables above.

### Mean stiffness values (N/mm²)

<table>
<thead>
<tr>
<th>Thickness (mm)</th>
<th>Bending</th>
<th>Tension</th>
<th>Compression</th>
<th>Panel Shear</th>
<th>Planar Shear</th>
</tr>
</thead>
<tbody>
<tr>
<td>$t_{nom}$</td>
<td>$E_m$</td>
<td>$E_t$</td>
<td>$E_c$</td>
<td>$G_v$</td>
<td>$G_r$</td>
</tr>
<tr>
<td>&gt; 6 to 10</td>
<td>4930</td>
<td>1980</td>
<td>3800</td>
<td>3000</td>
<td>3000</td>
</tr>
<tr>
<td>&gt; 10 to 18</td>
<td>4930</td>
<td>1980</td>
<td>3800</td>
<td>3000</td>
<td>3000</td>
</tr>
<tr>
<td>&gt; 18 to 25</td>
<td>4930</td>
<td>1980</td>
<td>3800</td>
<td>3000</td>
<td>3000</td>
</tr>
</tbody>
</table>

Notes:
1. The design (permissible) loads per span values given in the tables overleaf (1 and 2) are based on the modification factors detailed in Eurocode 5, BS EN 1995-1-1:2004+A2:2014 as well as the requirements of BS EN 12871:2013.
2. Uniformly distributed loads are in kN/m².
3. Design load values are given for multi-span (i.e. boards continuous over 3 or more supports) cases.
4. Permissible deflection is considered as 1/150th of span.
5. The design load, for a particular board / span / service condition / load duration, may be considered as the smaller value of its strength limit and the deflection limit.

Load Duration Class

<table>
<thead>
<tr>
<th>Load Duration Class</th>
<th>Order of accumulated duration of characteristic load</th>
<th>Examples of loading</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permanent</td>
<td>More than 10 years</td>
<td>Self weight</td>
</tr>
<tr>
<td>Long-term</td>
<td>6 months to 10 years</td>
<td>Storage</td>
</tr>
<tr>
<td>Medium-term</td>
<td>1 week to 6 months</td>
<td>Imposed load</td>
</tr>
<tr>
<td>Short-term</td>
<td>Less than on week</td>
<td>Snow* and wind</td>
</tr>
<tr>
<td>Instantaneous</td>
<td>Accidental load</td>
<td></td>
</tr>
</tbody>
</table>

In areas which have a heavy snow load for a prolonged period of time, part of the load should be regarded as medium-term.

Notes:
1. The design (permissible) loads per span values given in the tables overleaf (1 and 2) are based on the modification factors detailed in Eurocode 5, BS EN 1995-1-1:2004+A2:2014 as well as the requirements of BS EN 12871:2013.
2. Point (line) loads are in kN.
3. Uniformly distributed loads are in kN/m².
4. Design load values are given for multi-span (i.e. boards continuous over 3 or more supports) cases.
5. Permissible deflection is considered as 1/150th of span.
6. The design load, for a particular board / span / service condition / load duration, may be considered as the smaller value of its ‘strength limit’ and the ‘deflection limit’.

Notes:
1. In accordance with the National Forward to BS EN 12871:2013, no codified deflection limit for panels spanning between joists is specified in the UK. Therefore, if deflection is not a design criterion, then the structural engineer may consider the strength values given in the tables overleaf as the limiting design (permissible) loads.
2. The information and design load values are for guidance only and the liability is excluded.
<table>
<thead>
<tr>
<th>Span (mm)</th>
<th>Design limit</th>
<th>SterlingOSB Zero OSB3 thickness (mm)</th>
<th>and Load Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Long</td>
<td>Med</td>
</tr>
<tr>
<td>300</td>
<td>Strength</td>
<td>6.67</td>
<td>9.33</td>
</tr>
<tr>
<td></td>
<td>Deflection</td>
<td>1.85</td>
<td>2.28</td>
</tr>
<tr>
<td>350</td>
<td>Strength</td>
<td>4.9</td>
<td>6.66</td>
</tr>
<tr>
<td></td>
<td>Deflection</td>
<td>1.1</td>
<td>1.48</td>
</tr>
<tr>
<td>400</td>
<td>Strength</td>
<td>3.75</td>
<td>5.25</td>
</tr>
<tr>
<td></td>
<td>Deflection</td>
<td>0.69</td>
<td>0.96</td>
</tr>
<tr>
<td>450</td>
<td>Strength</td>
<td>2.96</td>
<td>4.15</td>
</tr>
<tr>
<td></td>
<td>Deflection</td>
<td>0.48</td>
<td>0.68</td>
</tr>
<tr>
<td>500</td>
<td>Strength</td>
<td>2.4</td>
<td>3.36</td>
</tr>
<tr>
<td></td>
<td>Deflection</td>
<td>0.35</td>
<td>0.49</td>
</tr>
<tr>
<td>550</td>
<td>Strength</td>
<td>1.96</td>
<td>2.78</td>
</tr>
<tr>
<td></td>
<td>Deflection</td>
<td>0.26</td>
<td>0.37</td>
</tr>
<tr>
<td>600</td>
<td>Strength</td>
<td>1.67</td>
<td>2.33</td>
</tr>
<tr>
<td></td>
<td>Deflection</td>
<td>0.16</td>
<td>0.23</td>
</tr>
<tr>
<td>650</td>
<td>Strength</td>
<td>1.42</td>
<td>1.99</td>
</tr>
<tr>
<td></td>
<td>Deflection</td>
<td>0.16</td>
<td>0.23</td>
</tr>
<tr>
<td>700</td>
<td>Strength</td>
<td>1.22</td>
<td>1.71</td>
</tr>
<tr>
<td></td>
<td>Deflection</td>
<td>0.13</td>
<td>0.18</td>
</tr>
<tr>
<td>750</td>
<td>Strength</td>
<td>1.07</td>
<td>1.49</td>
</tr>
<tr>
<td></td>
<td>Deflection</td>
<td>0.1</td>
<td>0.15</td>
</tr>
<tr>
<td>800</td>
<td>Strength</td>
<td>0.94</td>
<td>1.31</td>
</tr>
<tr>
<td></td>
<td>Deflection</td>
<td>0.09</td>
<td>0.12</td>
</tr>
</tbody>
</table>

(b) Service Class 2

<table>
<thead>
<tr>
<th>Span (mm)</th>
<th>Design limit</th>
<th>SterlingOSB Zero OSB3 thickness (mm)</th>
<th>and Load Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Long</td>
<td>Med</td>
</tr>
<tr>
<td>300</td>
<td>Strength</td>
<td>5.33</td>
<td>7.33</td>
</tr>
<tr>
<td></td>
<td>Deflection</td>
<td>1.15</td>
<td>1.55</td>
</tr>
<tr>
<td>350</td>
<td>Strength</td>
<td>3.92</td>
<td>5.39</td>
</tr>
<tr>
<td></td>
<td>Deflection</td>
<td>0.71</td>
<td>0.98</td>
</tr>
<tr>
<td>400</td>
<td>Strength</td>
<td>3.48</td>
<td>4.83</td>
</tr>
<tr>
<td></td>
<td>Deflection</td>
<td>0.48</td>
<td>0.68</td>
</tr>
<tr>
<td>450</td>
<td>Strength</td>
<td>2.37</td>
<td>3.26</td>
</tr>
<tr>
<td></td>
<td>Deflection</td>
<td>0.33</td>
<td>0.48</td>
</tr>
<tr>
<td>500</td>
<td>Strength</td>
<td>1.92</td>
<td>2.64</td>
</tr>
<tr>
<td></td>
<td>Deflection</td>
<td>0.24</td>
<td>0.34</td>
</tr>
<tr>
<td>550</td>
<td>Strength</td>
<td>1.59</td>
<td>2.16</td>
</tr>
<tr>
<td></td>
<td>Deflection</td>
<td>0.16</td>
<td>0.25</td>
</tr>
<tr>
<td>600</td>
<td>Strength</td>
<td>1.33</td>
<td>1.93</td>
</tr>
<tr>
<td></td>
<td>Deflection</td>
<td>0.11</td>
<td>0.18</td>
</tr>
<tr>
<td>650</td>
<td>Strength</td>
<td>1.14</td>
<td>1.56</td>
</tr>
<tr>
<td></td>
<td>Deflection</td>
<td>0.11</td>
<td>0.15</td>
</tr>
<tr>
<td>700</td>
<td>Strength</td>
<td>0.98</td>
<td>1.35</td>
</tr>
<tr>
<td></td>
<td>Deflection</td>
<td>0.09</td>
<td>0.12</td>
</tr>
<tr>
<td>750</td>
<td>Strength</td>
<td>0.86</td>
<td>1.17</td>
</tr>
<tr>
<td></td>
<td>Deflection</td>
<td>0.07</td>
<td>0.13</td>
</tr>
<tr>
<td>800</td>
<td>Strength</td>
<td>0.75</td>
<td>1.03</td>
</tr>
<tr>
<td></td>
<td>Deflection</td>
<td>0.06</td>
<td>0.08</td>
</tr>
</tbody>
</table>
SterlingOSB Zero StrongFix

Storage
Panels should be banded and stored under cover, on a level base with sufficient bearers to prevent sagging or other distortion. Care should be taken to protect edges. Where the panel is to be stored for a prolonged period, additional bearers should be installed.

An HSE information sheet on the ‘safe stacking of sawn material and board materials’ is available in our document library at uk.westfraser.com

Conditioning
In common with other wood and wood-based products, OSB may expand or contract slightly when exposed to changes of moisture in the atmosphere. Boards should be allowed to reach equilibrium by storing them under the atmospheric conditions in which they are to be used for a minimum of 48 hours prior to installation.

Correct method of edge stacking
Correct method of storage on bearers

Coating
When choosing a coating system, the desired longevity, decorative effect and level of maintenance should be considered.

Priming and top coating with a spirit based coating, as directed by the manufacturers, will give the highest quality finish. Where the final appearance is less important, water-based products may be used. These may cause some slight swelling of the surface wafers emphasising their outline.

Small test areas are recommended as West Fraser cannot be held responsible for other manufacturers’ product claims in this respect. Manufacturer’s guidelines on application should always be followed.

Treating
If required, SterlingOSB Zero can be treated to further protect against fungal or insect attack. It is recommended that a 3-minute dip cycle rather than a double vacuum cycle be used, and a solvent-based system should be used in preference to a water-based system. Experience shows that adequate preservative uptake is provided by this method.

Double vacuum systems and the use of water based chemicals can, as with most panel products, adversely affect the structural properties of the panel. All fire retardant impregnation systems are water based and usually involve a double vacuum and pressure cycle. It is essential to obtain structural performance characteristics from the treatment company and follow their end use recommendations. Fire retardant paints and finishes can be used on SterlingOSB Zero. Visit www.trada.co.uk for up to date information.

West Fraser cannot be held responsible for any independently handled process which may affect he strength properties of the finished panel.

SterlingOSB Zero installation advice

Fixings
- SterlingOSB Zero should be face fixed using approx. 3mm diameter ring-shank nails or screws, 50mm long at 100mm centres across the supporting joists
- Panels must be laid with long edges at 90° to supports and short edge joints must be staggered
- All short edges must be supported on joists / studs or nogging
- Panel edges must bear approx. 16mm onto joists
- Nailing must be at least 8mm from the panel edges
- All T&G joints should be glued with a PVA adhesive
- Panels should be fixed using approx. 3mm ring-shank nails or screws whose length is 2.5 times the thickness of the panel in flooring or 50mm in roofing
- Whilst not essential, gluing of the panels to joists increases the stiffness and strength of the structure. Additionally gluing can help reduce any potential squeaks or creaks. We recommend using CaberFix Joint&Joist

Expansion gaps
- Square edged With all square edged panels, a 3mm expansion gap should be allowed between boards and edges.
- Tongue and Groove (T&G) Tongue and Groove has an expansion gap included in the T&G joint. A 10mm expansion gap, or a total of 2mm per metre of boarding, (whichever is the greater), must be left at perimeters and upstands for both square edged and T&G panels.

<table>
<thead>
<tr>
<th>Thickness (mm)</th>
<th>Flooring</th>
<th>Flat Roofing</th>
<th>Sarking</th>
<th>Sarking under slates</th>
<th>Sheathing</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>18</td>
<td>11</td>
<td>15</td>
<td>18</td>
<td>9</td>
</tr>
<tr>
<td>Max. span* (domestic) (mm)</td>
<td>450</td>
<td>600</td>
<td>400</td>
<td>600</td>
<td>610</td>
</tr>
<tr>
<td>Nail centres (edges) (mm)</td>
<td>300</td>
<td>300</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Nail centres (intermediate) (mm)</td>
<td>300</td>
<td>300</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Weight kg/m² (approx.)</td>
<td>9.6</td>
<td>11.7</td>
<td>7.3</td>
<td>9.6</td>
<td>11</td>
</tr>
<tr>
<td>Face smooth nail retention** (N)</td>
<td>265</td>
<td>320</td>
<td>184</td>
<td>265</td>
<td>320</td>
</tr>
<tr>
<td>Face screw retention (N)</td>
<td>673</td>
<td>647</td>
<td>592</td>
<td>673</td>
<td>647</td>
</tr>
<tr>
<td>Face screw retention (N)</td>
<td>833</td>
<td>854</td>
<td>692</td>
<td>833</td>
<td>854</td>
</tr>
</tbody>
</table>

* Refer to tables on page 74 regarding UDL Limits
** Compared to smooth nails, improved nails will improve retention performance by around 50%
SterlingOSB Zero StrongFix

Step-by-step installation instructions
SterlingOSB Zero StrongFix is designed to be installed in standard metal C-stud with 600mm centres.

**Step 1. Fit L-shaped steel to panels**
Cut L-shaped steel to the same length as the SterlingOSB Zero StrongFix panels to be fitted, and fix to the back of the non-recessed side with a 1mm overlap (to allow for expansion). Using a minimum 25mm self-tapping drywall screw, fix 10mm from top and bottom and at 250mm centres maximum.

**Step 2. Position panels in metal C-stud**
By angling the SterlingOSB Zero StrongFix panel, match the panel’s recess with the lip of the metal C-stud then swing the panel to align flush with the next metal C-stud. Slide the panel up or down the metal C-studs to the area of wall that is required to be strengthened.

**Step 3. Fix panels in place**
Secure the panel in place, first by fixing the L-shaped steel to the metal C-stud with 13mm self-tapping metal drywall screws at 250mm centres so that SterlingOSB Zero StrongFix is flush with the metal C-stud. Secondly, secure the recessed side by fixing directly through the metal C-stud into the panel using a minimum 25mm self-tapping drywall screw, fix 10mm from top and bottom and at 250mm centres maximum.

---

**SterlingOSB Zero StrongFix anchorage values**
Independently tested anchorage data when installed in accordance with West Fraser recommendations and according to BS 5234-2:1992 - Partitions - Part 2: Specification for performance requirements for strength and robustness including methods of test:

<table>
<thead>
<tr>
<th>Fixing size (wood screws)</th>
<th>BS 5234-2 Requirement</th>
<th>Max. Recommended Safe Working Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pull Out SWL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.5 × 40mm</td>
<td>100N</td>
<td>Pass 100kg</td>
</tr>
<tr>
<td>4.0 × 50mm</td>
<td>100N</td>
<td>Pass 100kg</td>
</tr>
<tr>
<td>5.0 × 50mm</td>
<td>100N</td>
<td>Pass 110kg</td>
</tr>
<tr>
<td>Pull Down SWL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.5 × 40mm</td>
<td>250N</td>
<td>Pass 50kg</td>
</tr>
<tr>
<td>4.0 × 50mm</td>
<td>250N</td>
<td>Pass 60kg</td>
</tr>
<tr>
<td>5.0 × 50mm</td>
<td>250N</td>
<td>Pass 70kg</td>
</tr>
<tr>
<td>Heavyweight anchorage (wash basin) SWL</td>
<td>5.0 × 50mm</td>
<td>1,000N</td>
</tr>
<tr>
<td></td>
<td>6.0 × 60mm**</td>
<td>1,500N</td>
</tr>
<tr>
<td>Heavyweight anchorage (wall cupboard) SWL</td>
<td>4.0 × 50mm</td>
<td>2,000N</td>
</tr>
<tr>
<td></td>
<td>5.0 × 50mm</td>
<td>4,000N</td>
</tr>
</tbody>
</table>

**Pull Out SWL**
- 3.5 × 40mm: 100N, Pass 100kg
- 4.0 × 50mm: 100N, Pass 100kg
- 5.0 × 50mm: 100N, Pass 110kg

**Pull Down SWL**
- 3.5 × 40mm: 250N, Pass 50kg
- 4.0 × 50mm: 250N, Pass 60kg
- 5.0 × 50mm: 250N, Pass 70kg

**Heavyweight anchorage (wash basin)**
- 5.0 × 50mm: 1,000N, Pass 100kg
- 6.0 × 60mm**: 1,500N, Pass 150kg

**Heavyweight anchorage (wall cupboard)**
- 4.0 × 50mm: 2,000N, Pass 200kg
- 5.0 × 50mm: 4,000N, Pass 400kg

**Notes:**
- Full sized dry lining panels are required for 1,500N
- SWL = Safe Working Load

---

Provides a strong fixing point for fixtures and fittings up to 400kg anywhere on the panel.
SterlingOSB Zero Fire Solutions at a glance

SterlingOSB Zero Fire Solutions has been developed specifically in response to the STA (Structural Timber Association) published guidelines for reducing fire spread in large (total floor area >600m²) timber frame buildings during the construction phase when fire resistant finishes (dry lining) are not yet in place.

STA guidelines

The purpose of the guidelines is to reduce potential radiant heat emissions to acceptable levels, so that the risk of fire spread to neighbouring buildings is controlled should a fire occur during the construction process.

Completed timber frame buildings (dry linings fixed) are then fully compliant with the Building Regulation fire protection requirements.

The guidelines enable the designer either to specify a type of timber frame with inherently reduced fire spread properties or, where suitable, to adapt the construction process to allow the use of standard open panel timber frame.

SterlingOSB Zero Fire Solutions is designed, when used in conjunction with Rockwool insulation, to match the categories in STA guidelines:

**SterlingOSB Zero FS-300**

- **Category A**: Standard open panel timber frame
- **Category B**: Reduced fire spread timber frame
- **Category C**: Fire spread resistant timber frame

**Matrix of wall and floor assemblies providing STA category solutions to fire spread during construction phase**

<table>
<thead>
<tr>
<th>STA wall reference (Sub-classification)</th>
<th>STA floor reference (Deck and Joist details)</th>
</tr>
</thead>
<tbody>
<tr>
<td>F3.2</td>
<td>Alternative F3.2</td>
</tr>
<tr>
<td>B3</td>
<td>B3</td>
</tr>
<tr>
<td>9mm OSB/3 sheathing - NoBurn intumescent both sides</td>
<td>15mm untreated OSB/3</td>
</tr>
<tr>
<td>C</td>
<td>C</td>
</tr>
</tbody>
</table>

*1 refer to section 6, combination 4, STA Product Paper 4

**F3.2** This system achieves 2 points*

- FR Build treated floor deck.
- Solid timber or LVL flanges of width 58mm.
- 15mm thick Rockwool ProRox SL320 slabs fitted tight between flanges each side of OSB web and stapled at 300mm centres.
- Staples to be 16 gauge, 11mm crown and have leg length of at least 30mm.

**Alternative F3.1** This system achieves 2 points*

- 15mm untreated SE OSB3 floor deck.
- 40mm Rockwool ProRox SL320 slabs fitted tight between joists and stapled to underside of OSB floor deck in a grid pattern of 300mm x 300mm.
- Staples to be 16 gauge, 11mm crown and have a leg length of at least 30mm. FR Build treated solid timber joists or untreated 1-joints protected by Rockwool as per F3.2.

**F4**

- 15mm untreated SE OSB3 floor deck.
- Un-treated OSB-webbed 1-joint.
- A2 board 12.5mm minimum or 9mm A1 board fitted prior to erection of any timber frame walls above this floor level.

**W7** This system achieves 4 points*

- 9mm OSB/3.
- OSB treated both sides with 150 gsm of intumescent NoBurn.
- Full-fill Rockwool Flex insulation between untreated studwork.

**W8** This system achieves 5 points*

- 9mm OSB/3.
- OSB treated both sides with 150 gsm of intumescent NoBurn.
- Full-fill Rockwool Flex insulation between untreated studwork.
- Vapour control layer stapled to studwork.
- A1 board 9mm or A2 board 12.5mm.

*In accordance with STA Product Paper 4. **Also possible to use Full Fill Fi Type 2 Insulation between untreated studwork (Glass wool).
## CaberFloor technical data

### CaberFloor P5, CaberDek, CaberShieldPlus and CaberAcoustic

<table>
<thead>
<tr>
<th></th>
<th>Unit</th>
<th>18mm</th>
<th>22mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panel Weight</td>
<td>kg/m²</td>
<td>12</td>
<td>15</td>
</tr>
<tr>
<td>Panel Weight (2400×600mm)</td>
<td>kg</td>
<td>17.3</td>
<td>21.6</td>
</tr>
<tr>
<td>Density</td>
<td>kg/m³</td>
<td>660 ± 30</td>
<td>660 ± 30</td>
</tr>
<tr>
<td>Internal Bond strength (IB) (After cyclic test)</td>
<td>MPa</td>
<td>0.45</td>
<td>0.40</td>
</tr>
<tr>
<td>Modulus of Rupture (MoR)</td>
<td>MPa</td>
<td>16</td>
<td>14</td>
</tr>
<tr>
<td>Modulus of Elasticity (MoE)</td>
<td>MPa</td>
<td>2400</td>
<td>2150</td>
</tr>
<tr>
<td>Moisture Content</td>
<td>%</td>
<td>5-8</td>
<td>5-8</td>
</tr>
<tr>
<td>Thickness Swelling 24hr immersion After cyclic test</td>
<td>%</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Standard Deviation of Thickness Within boards</td>
<td>mm</td>
<td>± 0.2</td>
<td>± 0.2</td>
</tr>
<tr>
<td></td>
<td>%</td>
<td>12</td>
<td>11</td>
</tr>
<tr>
<td>Between boards</td>
<td>%</td>
<td>12</td>
<td>11</td>
</tr>
<tr>
<td>Dimensional Stability Length / Width</td>
<td>%</td>
<td>0.25</td>
<td>0.25</td>
</tr>
<tr>
<td></td>
<td>%</td>
<td>7.0</td>
<td>7.0</td>
</tr>
<tr>
<td>Low Emission Grade E1 (Formaldehyde EN 139)</td>
<td>mg/100g</td>
<td>≤8.0</td>
<td>≤8.0</td>
</tr>
<tr>
<td>Reaction to Fire (EN 13501-1)</td>
<td>Class D&lt;sub&gt;n&lt;/sub&gt;-S1</td>
<td>Class D&lt;sub&gt;n&lt;/sub&gt;-S1</td>
<td></td>
</tr>
</tbody>
</table>

### CaberDek removable film

<table>
<thead>
<tr>
<th></th>
<th>Unit</th>
<th>Test method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Film weight</td>
<td>g/m²</td>
<td>DIN 53635</td>
<td>70</td>
</tr>
<tr>
<td>Tensile strength MD</td>
<td>g/15mm</td>
<td>DIN EN ISO 527</td>
<td>55</td>
</tr>
<tr>
<td>Tensile strength CD</td>
<td>g/15mm</td>
<td>DIN EN ISO 527</td>
<td>45</td>
</tr>
<tr>
<td>Ultimate elongation MD</td>
<td>%</td>
<td>DIN EN ISO 527</td>
<td>700</td>
</tr>
<tr>
<td>Ultimate elongation CD</td>
<td>%</td>
<td>DIN EN ISO 527</td>
<td>500</td>
</tr>
<tr>
<td>Tear propagation strength MD</td>
<td>N</td>
<td>DIN 53633</td>
<td>35</td>
</tr>
<tr>
<td>Tear propagation strength CD</td>
<td>N</td>
<td>DIN 53633</td>
<td>30</td>
</tr>
<tr>
<td>Water Vapour Permeability (23°C/85% r.F.)</td>
<td>g/m²/d</td>
<td>DIN 53122</td>
<td>0.36</td>
</tr>
<tr>
<td>Temperature extremes</td>
<td>°C</td>
<td>In-house</td>
<td>-40 / +80</td>
</tr>
<tr>
<td>Puncture resistance</td>
<td>N</td>
<td>MIL STD 3010-2065</td>
<td>55</td>
</tr>
</tbody>
</table>

These values are typical 95%ile values when the products are tested in accordance with European Standards test methods for Particle Boards BS EN 312.

---

### CaberFloor P5, CaberDek, CaberShieldPlus and CaberAcoustic

#### Product sizes available

<table>
<thead>
<tr>
<th>Product</th>
<th>Application</th>
<th>Thickness (mm)</th>
<th>Size (mm)</th>
<th>Edge profile</th>
</tr>
</thead>
<tbody>
<tr>
<td>CaberFloor P5</td>
<td>Structural flooring</td>
<td>18, 22</td>
<td>2400 × 600</td>
<td>TG4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>18</td>
<td>2440 × 1220</td>
<td>SE</td>
</tr>
<tr>
<td>CaberDek</td>
<td>Structural flooring</td>
<td>18, 22</td>
<td>2400 × 600</td>
<td>TG4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>22</td>
<td>2400 × 1200</td>
<td>TG2</td>
</tr>
<tr>
<td>CaberShieldPlus</td>
<td>Structural flooring</td>
<td>18, 22</td>
<td>2400 × 600</td>
<td>TG4</td>
</tr>
<tr>
<td>CaberAcoustic</td>
<td>Overlay flooring</td>
<td>28, 32</td>
<td>2400 × 600</td>
<td>TG4</td>
</tr>
<tr>
<td>CaberFloor P1</td>
<td>Non-structural general use</td>
<td>12, 18</td>
<td>2440 × 1220</td>
<td>SE</td>
</tr>
<tr>
<td>CaberFloor P2/P3</td>
<td>Furniture &amp; Kitchen worktops</td>
<td>various*</td>
<td>various*</td>
<td>SE</td>
</tr>
</tbody>
</table>

---

* In accordance with STA Product Paper 4.
** Also possible to use Full Fill F: Type 2 Insulation between untreated studwork (Glass wool).
* Contact our customer service team for more information

---

### Technical information

- Contact our customer service team for more information.
CaberFloor storage and conditioning

**Storage**
On delivery, boards should be stacked on equidistantly spaced bearers in a dry, covered area with outside storage adopted only as a last resort. If storage outside is unavoidable, stack on dry level ground and protect the boards by covering with a polythene or waterproof sheet. Ensure that the board edges are covered and secured to avoid lifting by the wind.

An HSE information sheet on the ‘safe stacking of sawn material and board materials’ is available in our document library at uk.westfraser.com.

**Handling**
Like all panel products, our MDF, Particleboard and OSB should be handled carefully to prevent the risk of boards slipping or toppling and potential injury.

As a duty of care to our customers, West Fraser has undertaken extensive testing of our packaging and strapping to ensure our products arrive safely.

End users are responsible to ensure that appropriate risk assessments are undertaken and safe procedures are in place.

**Conditioning**
Wood particleboards expand on taking moisture from surrounding air (plus effects of wet trades, site conditions etc.) and shrink on losing it. As a guide, a small increase in moisture of 1% increases length and width by 0.25mm per metre. A decrease in moisture of 1% will have a corresponding shrinkage effect. It is clearly desirable to minimise these changes, which can be applied pro-rata, by taking a few simple precautions. Boards should be allowed to reach equilibrium by storing them under the atmospheric conditions in which they are to be used, for a minimum of 48 hours prior to laying. It is recommended that boards are loose stacked, on a minimum of 3 equi-spaced bearers, with spacers between each board to allow free air movement.

**Equilibrium moisture content**
Wood particleboards expand on taking moisture from surrounding air (plus effects of wet trades, site conditions etc.) and shrink on losing it. As a guide, a small increase in moisture of 1% increases length and width by 0.25mm per metre. A decrease in moisture of 1% will have a corresponding shrinkage effect. It is clearly desirable to minimise these changes, which can be applied pro-rata, by taking a few simple precautions. Boards should be allowed to reach equilibrium by storing them under the atmospheric conditions in which they are to be used, for a minimum of 48 hours prior to laying. It is recommended that boards are loose stacked, on a minimum of 3 equi-spaced bearers, with spacers between each board to allow free air movement.

**Moisture content**
All wood is hygroscopic. Its moisture content, therefore depends on its environment. The moisture content which wood and wood-based products will attain in service (equilibrium moisture content) depends primarily on the atmospheric humidity.

Floors should be laid at a moisture content within the range likely to be encountered in service. They should also be laid after the initial drying out period is complete. It should be noted that sometimes extreme site conditions can lead to shrinkage when the building is finally occupied / heating commissioned etc. CaberFloor products are made at relatively high ex-works moisture contents compared to industry norms.

**Note:**
Care should be taken to ensure any joists treated with a waterborne preservative have thoroughly dried out before installation. Joist moisture content should not exceed 20%. High moisture content in the timber could lead to distortion as they dry out leading to ‘creaks’, particularly if the boards are not glued. Some contractors prefer to additionally bond the underside of the board to the top of the joist (using PVA adhesive).

Any access traps for underfloor services should be pre-planned and support provided for all sides of the traps.
CaberFloor installation advice

Panel thickness

On joists up to 450mm centres use 18mm board.
On joists up to 600mm centres use 22mm board

T&G panels are laid with long edges across the joists

Tongued & Grooved panels

Tongued & Grooved panels should be laid in a staggered pattern with long edges across the joists and short edges falling on the centre of joists. Support between joists is not necessary. Should the short edges overhang then the overhang must be supported by a noggin.

Gluing T&G joints is recommended. It improves joint strength and accommodates a degree of joist variation. All joints must be glued with CaberFix adhesive (J&J, D3 or D4, dependent on panel type), otherwise, joist movement or variation may lead to movement and ‘creaks’. Boards can be fixed by nailing or screwing. If nailing, annular ring Shank nails should be used for fastening all edges to the joists.

If screw fixing, use a suitable pilot hole followed by Posidriv No. 8 particleboard screws, or equivalent. Fix the boards with four fixings to each short edge joint, two about 25mm from each end and two equidistant in between. All joints must be tightly butted. Length of fixings used should be 2.5 times the thickness of the board. Four equidistant fixings should be used on panel ends and three at intermediate joists.

SE panels are laid with long edges in-line with the joists

Square Edged (SE) panels

SE panels should be laid with the long edges falling on the joist centres and with the short edges supported by 38mm wide noggins with their ends secured to joists.

Nail the boards to all supports 200-300mm apart with annular ring Shank nails round the edges of the board and at 300mm centres on intermediate joints. The nails used should be 2.5 times the thickness of the board. All joints must be tightly butted.

10mm minimum expansion gap should be applied to the perimeter

Perimeter expansion gap

CaberFloor P5, when laid in a new building, will tend to absorb moisture and expand in common with other wood-based materials. It is important to leave an expansion gap of 2mm per metre run of board between the edge of the floor and the perimeter wall or any solid abutment (minimum gap 10mm). For larger areas it is necessary to incorporate intermediate expansion gaps to provide the necessary allowance for possible movements, particularly in corridor applications. Attention must be paid to maintaining expansion gaps at all times during construction.

In large areas or long runs additional expansion gaps should be included

Additional movement gaps

It is well documented and strongly recommended that additional movement gaps are incorporated in large areas or long runs e.g. corridors. BS 8201:2011 Code of practice for installation of flooring of wood and wood-based panels recommends an expansion provision of 2mm per metre run plus 1mm for every metre above 12m of the width and breadth of the floor. A simple movement provision can be made according to the diagram above and also proprietary systems are available to suit a wide range of applications.

Panel thickness is dependent on joist span

The technical information section provides advice on the installation of CaberFloor products. It includes details on panel thickness, Tongued & Grooved panels, Square Edged (SE) panels, and Perimeter expansion gaps. The technical advice includes recommendations for gluing, screwing, and nailing, as well as instructions on how to support the short edges of the panels. The document also emphasizes the importance of leaving expansion gaps to accommodate movement and prevent ‘creaks’. Additional movement gaps are recommended for larger areas or long runs, and the code of practice is referenced for guidance on installation.

Customer support

Product application guide

<< PREVIOUS PAGE INDEX NEXT PAGE >>
CaberFloor installation advice

**Continuously supported floating floor**

It is essential that a continuous damp proof membrane – not less than 1000 gauge polythene – is used. This must be laid in accordance with CP102:1973. A continuous layer of insulation is used above the structure of pre-cast concrete beam and block.

The insulation may be incorporated in the screed. Most commonly, when used in conjunction with CaberFloor P5 as the floating floor overlay, the insulation is immediately below the flooring and laid onto the slab or beam and block, with vapour control layer between flooring and insulation. Any unevenness, localised or general, may transmit through the CaberFloor P5 layer, therefore subfloor flatness is important. The insulation material should be rigid and suitable for the loading requirements.

**Battened floating floor**

Use additional support battens where extra floor loading is anticipated and the exact position is known, e.g. beneath kitchen equipment and sanitary fittings. When required, use a levelling screed to ensure that the battens of a timber battened system are true and level. Do not attempt to fix the flooring to the battens through resilient insulation material, as this will create an uneven floor.

If necessary lightly sand and clean floors to make the surface suitable for further overlays, e.g. thin plywood, vinyl etc. Do not wash or scrub with water.

**Advice on door thresholds**

At all door openings, support the edges of the panels on preservative treated timber battens. Ensure that battens are on a firm and level base and fix a strip of flooring to the battens as a threshold. Allow a gap on each side of the threshold for movement in the flooring panels.

**Joisted floor**

Joisted or suspended timber floors have an advantage in that they can accommodate the required thickness of insulation within the structure. The insulation materials may be mineral wool supported on boards (or netting) or rigid foam insulation simply supported on timber battens.

The board may be mechanically fixed to the joists and the underside of the board glued to the top of the joist for additional strength. Independent tests have shown a 10% strength increase by gluing as above. Maintain adequate cross ventilation of the subfloor space, taking care not to obstruct ventilators by insulation material or timber struts in the subfloor. Use herringbone struts in preference to solid strutting e.g. above sleeper walls.

**Advice on moisture protection**

CaberFloor P5 is a highly durable product. Similar to other wood-based panels it is affected by moisture. Good practice on installation and protection against moisture in construction is advised. We recommend, with or without battens in the floating floor construction, that 1000 gauge polythene should be used as a continuous Vapour Control Layer (VCL) between the CaberFloor P5 and the insulation material.

**Advice on door thresholds**

At all door openings, support the edges of the panels on preservative treated timber battens. Ensure that battens are on a firm and level base and fix a strip of flooring to the battens as a threshold. Allow a gap on each side of the threshold for movement in the flooring panels.

**Vapour control layer**

With or without battens in the floating floor construction, that 1000 gauge polythene should be used as a continuous Vapour Control Layer (VCL) between the CaberFloor P5 and the insulation material.
Technical information

CaberFloor installation advice

T&G panel fixing methods*
Dependent on whether gluing or mechanical fixing to joists, the following advice should be noted:

Key to fixing diagrams
- 2400 × 600mm T&G board
- Perimeter
- Joist
- Glue on joint
- Glue in T&G joint
- Mechanical fixing positions

Glued to joists method

Mechanical fixing to joists method

Taping CaberDek
When using CaberFix Joint&Joist, for BBA approval use CaberFix Tape on all joints, perimeters and mechanical fixings.

In extreme cold conditions, CaberFix X-Treme Tape should be used instead, as it withstands cracking or lift in temperatures down to –21°C.

Soft and resilient floor coverings
The Codes of Practice – BS 8203, WPIF floating flooring installation code of practice and BS 5325 recommends that for all overlays the subfloor must be clean, rigid and flat. When thin or shiny floor surface materials are laid over CaberFloor these materials may allow board joints to show through, particularly after trafficking. Prior to laying such materials, the CaberFloor joints should be checked for level. It is permissible to sand off any raised areas not exceeding 1mm. For raised areas greater than 1mm, additional levelling materials are required.

Thin, plain coloured carpets or vinyls or those with a high sheen – tend to show small irregularities to a greater degree. For thin vinyls and tiling, it is recommended that a plywood overlay (4mm) is fixed in position, staggering joints so as not to coincide with CaberFloor joints. The plywood should be fixed every 100mm using appropriate nails or screws around perimeter and 150mm apart elsewhere, ensuring they do not protrude above the surface. Adhesive manufacturer advice should be followed for priming of new surfaces. Usually, this involves a coat of diluted PVA emulsion.

Ceramic tiling
Guidance as to construction of bases in respect to considerations and timber bases is given in BS 5385-3:2007. Tiling onto CaberFloor flooring should be undertaken only in joisted / fixed floor constructions. Noggins should be used between the joints at 300mm centres and the surface provided for tiling should be 15mm exterior grade plywood screwed to joists and noggins at 300mm centres. Existing boards can therefore be overlaid with 15mm exterior grade plywood to provide the necessary rigidity for a tiled surface. Length of fixings should be 2.5 times overall board thickness. A tile adhesive is the recommended bond material – cement / sand mortars are not recommended.

Underfloor heating
CaberFloor flooring is suitable for use when installing hydronic underfloor heating systems.

Acoustic performance
CaberFloor flooring can be used effectively on acoustic battened floor systems. These systems are often used in flatted developments to achieve ‘Part E’ requirements of UK Building Regulations. For more info on acoustic flooring see page 92/93.

*Mechanical fixing methods do not apply to Caber Acoustic when used as a floating floor overlay.
CaberAcoustic systems

Acoustic performance
CaberAcoustic is a highly versatile and economical sound reducing flooring solution. Reducing both impact and airborne transmitted sounds, it can be laid over concrete and timber floors in both new and existing buildings.

- Available as 28mm or 32mm CaberAcoustic
- Reduces impact sounds transmission by $\Delta l_{w,19dB}$
- Contributes to airborne noise reduction**
- To be overlaid onto an existing deck
- Use in conjunction with flanking strip
- Made in the UK using eco recycled felt

1 $\Delta l_{w,19dB}$ sound reduction applies when CaberAcoustic is installed on its own. Greater reductions applicable (see table) when used within a system for noise transference reduction.

When used in the right system.

Hush System 2003 overlay (HD1014)
* 19dB sound reduction applies when CaberAcoustic is installed on its concrete and timber floors in both new and existing developments.

<table>
<thead>
<tr>
<th>Impact $L_{N,w,eq}$ dB</th>
<th>Airborne $D_{N,22}$ dB</th>
<th>Airborne $D_{N,49}$ dB</th>
</tr>
</thead>
<tbody>
<tr>
<td>51</td>
<td>58</td>
<td>49</td>
</tr>
</tbody>
</table>

Results based on the CaberAcoustic system being used in conjunction with all Hush joist infill and Hush ceiling components (HD1014) and installed as per both manufacturer’s installation guides with all flanking paths treated. We recommend that the structure consists of a minimum 200mm joists.

Hush System MF28 overlay (HD1038)
* 19dB sound reduction applies when CaberAcoustic is installed on its concrete and timber floors in both new and existing developments.

<table>
<thead>
<tr>
<th>Impact $L_{N,w,eq}$ dB</th>
<th>Airborne $D_{N,22}$ dB</th>
<th>Airborne $D_{N,49}$ dB</th>
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<tr>
<td>51</td>
<td>58</td>
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</table>

Results based on the CaberAcoustic system being used in conjunction with all Hush-MF Ceiling components (HD1038) and installed as per both manufacturer’s installation guides with all flanking paths treated.

Hush overlay for masonry system (HD1018)
* 19dB sound reduction applies when CaberAcoustic is installed on its concrete and timber floors in both new and existing developments.

<table>
<thead>
<tr>
<th>Impact $L_{N,w,eq}$ dB</th>
<th>Airborne $D_{N,22}$ dB</th>
<th>Airborne $D_{N,49}$ dB</th>
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</thead>
<tbody>
<tr>
<td>45</td>
<td>62</td>
<td>55</td>
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</tbody>
</table>

Results based on the CaberAcoustic system being used in conjunction with all Hush-MF Ceiling components (HD1018) and installed as per both manufacturer’s installation guides with all flanking paths treated.

CaberAcoustic
For use in conversion and refurbishment development in conjunction with Hush Acoustics joint infill and ceiling system (HD1014).

Product data
- CaberAcoustic 28, all T&G joints to be glued using CaberFix D3 adhesive. CaberAcoustic panel to be laid over 18/22mm T&G chipboard or existing floorboards. All perimeters of the CaberAcoustic panel to be sealed using the flanking strips.
- Hush 100 Sound Absorber fitted between joists with Hush Resilient Bars screw fixed to the underside of joists at 600mm centres.
- Two layers of 15mm Gyproc Soundbloc Plasterboard to be installed to the underside of the Resilient Bar. Seal all perimeters with an Acoustic Sealant prior to skimming.

Features
- Complies to UK Building Regulations Approved Document E (England & Wales), Section 5 (Scotland) and Part G (Northern Ireland)
- A fully developed economical sound insulation system to be used to form a separating floor construction in refurbishment and conversion development with timber joists
- Provides a 1 hour fire resistance at ceiling level

CaberAcoustic
Can be used in timber joisted floor applications in new build, conversion and refurbishment developments in conjunction with the Hush-MF Ceiling System and Hush 100 Sound Absorber (HD1038).

Product data
- CaberAcoustic 28, all T&G joints glued using CaberFix D3 adhesive, laid over 18mm/22mm chipboard deck, with all perimeters sealed using a flanking strip.
- Install the Hush-MF system to the underside of the joists creating a minimum 150mm void from the underside of the joists to the back of the plasterboard lining. Install the Hush 100 Sound Absorber tightly together within the ceiling void.
- Install a double plasterboard layer to the underside of the Hush-MF System. The plasterboard lining should consist of 19mm plasterboard plank and 12.5mm Soundbloc. Seal all perimeters.

Features
- Complies with UK Building Regulations Approved Document E (England & Wales), Section 5 (Scotland) and Part G (Northern Ireland)
- A fully developed, economical sound insulation system for use in separating floor/ceiling construction in conversion, refurbishment and new build developments
- Provides a 1 hour fire resistance at ceiling level

CaberAcoustic
Can be used with concrete floor structures of 300-365 kg/m² in new build, conversion and refurbishment developments in conjunction with the Hush-MF Ceiling System and Hush 100 Sound Absorber (HD1018).

Product data
- CaberAcoustic 28, all T&G joints glued using CaberFix D3 adhesive, laid over 200mm in situ concrete slab.
- Install the Hush-MF Ceiling to the underside of the masonry construction. Ensure a 150mm void is created from the underside of the beam and block to the back of the plasterboard lining.
- Install the Hush 100 Sound Absorber within the Hush-MF Ceiling System.
- Install a double layer of 12.5mm Soundbloc Plasterboard to the underside of the Hush-MF Ceiling System.

Features
- Complies with UK Building Regulations Approved Document E (England & Wales), Part G (Northern Ireland) and Section 5 (Scotland)
- A fully developed economical sound insulation system between separating floors
Values are typical values in accordance with EN standards, BS EN 622-5:2009 for Fibreboards: Specification – Part 5: Requirements for dry process boards (MDF).

Note:
Using BS EN 120.
Thickness tolerance for all grades is:
± 0.2mm ≤ 22mm
± 0.3mm > 22mm
PCP values are less than 5 ppm.

### Low emission
All CaberWood MDF products conform to the latest European low emission standards

---

#### CaberWood MDF Trade

<table>
<thead>
<tr>
<th>Property</th>
<th>Unit</th>
<th>≥4–6 mm</th>
<th>&gt;6–9 mm</th>
<th>&gt;9–12 mm</th>
<th>&gt;12–19 mm</th>
<th>&gt;19–30 mm</th>
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<td>0.1</td>
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<tr>
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<td>14</td>
<td>12</td>
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#### CaberWood MDF Trade MR

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<td>Thickness Swelling (24hr immersion)</td>
<td>%</td>
<td>16</td>
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<td>12</td>
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<tr>
<td>Moisture Content [ex-plant]</td>
<td>%</td>
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<tr>
<td>Reaction to Fire*</td>
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<td>E1</td>
<td>E1</td>
<td>E1</td>
<td>E1</td>
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</tbody>
</table>

*Refer to EN13986:2004+A1:2015, Table 8, for End Use Classifications
CaberWood MDF storage and conditioning

Transport and storage
CaberWood MDF should be:
• Transferred in uniform stacks on a flat base to avoid damage
• Protected against the weather
• Stored on a rigid flat base and adequately ventilated
• Insulated from the ground to avoid dampness

When wooden bearers are used, they should be of uniform thickness and placed in line. The distance between bearers should be no greater than 700–1,000mm.

An HSE information sheet on the ‘safe stacking of sawn material and board materials’ is available on request.

Conditioning
Wood panel products expand on taking moisture from surrounding air and shrink on losing it. As a guide, a small increase in moisture of 1% increases length and width by 0.25mm per metre. A decrease in moisture of 1% will have a corresponding shrinkage effect.

It is clearly desirable to minimise these changes, which can be applied pro-rata, by taking a few simple precautions. Boards should be allowed to reach equilibrium by storing them under the atmospheric conditions in which they are to be used, for a minimum of 48 hours prior to laying. It is recommended that boards are loose stacked, on a minimum of 3 equi-spaced bearers, with spacers between each board to allow free air movement.

Moisture content
All wood is hygroscopic. Its moisture content, therefore depends on its environment.

The moisture content which wood and wood-based products will attain in service (equilibrium moisture content) depends primarily on the atmospheric humidity.

Relative humidity Approximate equilibrium at 20°C moisture content
30% 7%
65% 11%
85% 15%

CaberWood MDF panel weight guide
For lifting & handling purposes using an 18mm panel thickness, the following should be used as a guide weight (kg per m²).

• CaberWood MDF Trade / MR 10 kg/m²
• CaberWood MDF Industrial 14.5 kg/m²

Note: Calculations for guide weights for thicknesses other than 18mm, are pro-rata, e.g. 12mm CaberWood MDF Trade = 10 kg/m² x 12/18 = 6.7 kg/m².

Correct method of storage on bearers

Customer support

Technical information
CaberWood MDF machining advice

CaberWood MDF has a consistent density and a smooth surface that is ideal for machining, profiling, painting, or the application of paper foils and veneers. In many respects, CaberWood MDF can be treated as a high quality timber, but without the inherent defects of knots and grains.

Machining
CaberWood MDF is a homogeneous wood fibre material, ideally suited to modern machine tooling.

CaberWood MDF can be worked easily with all conventional woodworking machines. It saws cleanly and drills easily. It also shapes and routes exceptionally well, without splintering or chipping. CaberWood MDF is equally suited for use with most hand tools.

Profiling
Profiled edges require no edge banding or lipping. Sculptured or textured effects can be machined or embossed, and narrow or small door frames can be produced from a single piece of board.

A major advantage of CaberWood MDF is the relative ease of finishing perpendicular and moulded edges without the need for elaborate filling or the application of adhesive bonded edging materials. This characteristic derives from the uniform density of CaberWood MDF, and the absence of core voids which would require filling.

Sanding
Sanding after moulding or routing produces a much smoother finish. The moulded edges can be sanded with any number of different profile sanders. Various polyurethane based abrasive wheels are available to fit to spindle moulders or in line with a double end tenoner. These wheels can be shaped to the cutter profile using an abrasive paper glued to the desired edge profile.

80/100 grit should be used for the removal of cutter marks. 120/150 grit is usually used for finish sanding with finer grades available, if required.

Sawing
Follow these tips to ensure best results, minimum breakout and a longer tool life:

- Tungsten carbide saws are recommended for general use
- Saw blades should have higher clearance angles and increased tool angles compared with normal wood-working saws
- Clearance angles should be maintained when the saw is serviced. Reduced angles will increase the amount of resin build up. Increased angles will increase the life between sharpening.
- Chipload – which is the thickness of chip cut by each tooth - should be in the range of 0.15 to 0.25mm. The feed rate required to produce this is calculated as follows:

  Feed rate (mm/min) = Chipload x r.p.m. x no. of teeth

Saw blades and tools should have increased clearance angles to reduce resin build up and increase the life between sharpening.
CaberWood MDF fixing advice

Mechanical joints and fixings

Mechanical fittings developed for use with particleboard can be applied to MDF with the following recommendations:

- Wherever possible select fittings that depend upon face fixing
- Avoid fittings which depend upon the expansion of a component inserted into the board edge
- When using screws follow the pilot hole dimensions recommended below

Screwing

The internal bond strength of CaberWood MDF gives substantially better screw holding over other types of panel products.

Type of screw

Most types of screw can be used. Best results are obtained with parallel thread screws. A high overall diameter to core ratio is desirable.

Positioning

Screws which are inserted into the face should not be less than 25mm from the corners. Screws inserted into the edge should not be less than 70mm from the corners. Do not over tighten screws as further turning after screws are tight will reduce the holding power.

Pilot holes

Larger diameter pilot holes than those recommended for solid wood and particleboard are required in faces and edges of MDF to accommodate the core of the screw. For GKN Superscrews the recommended pilot diameter should be 85% to 95% of the screw core diameter.

This requirement is particularly important when screwing into the edges of thinner boards. Pilot holes should be drilled approximately 1mm beyond the expected depth of insertion of the screws into the board.

Dowel joints

Dowel holes should be machined with a sharp tool so that the surfaces are free from loose fibre. All dust should be removed prior to assembly. The dowel hole diameter should be slightly larger than the dowel. This will allow good adhesive cover and avoid splitting of the edge.

Dowels with multiple longitudinal or spiral groove patterns ensure uniform adhesive spread within the joint.

For best results dowels should be given a total glue coverage. Adhesives such as Polyvinyl Acetate (PVA) or Urea Formaldehyde are preferred as they have good gap filling properties, and their high solid content counteracts absorption of adhesive into the machined edges of CaberWood MDF.

Dowel with 1mm all round clearance preferred.

Smooth dowels are not recommended, grooved dowels are preferred.

Nailing and stapling

Where other methods of fixing are not practical, CaberWood MDF can be fixed with nails. Nails should be spaced 150mm apart to reduce the risk of splitting and at least 70mm from the corners. Nailing the edges of 9mm and 12mm CaberWood MDF is not recommended because of the risk of splitting.

CaberWood MDF can also be fixed using staples. For best results staples should not be inserted closer than 12mm from the edges and 25mm from the corners. This fixing method is only recommended for applications involving light loads. Close spacing of the staples is acceptable but the legs should be aligned at an angle of 15° to the plane of the board.
Mitre joints between CaberWood MDF panels

Adhesive bonded joints
A wide variety of jointing methods can be adopted providing the following simple guidelines are observed:
- The joint parts should be accurately machined
- Sharp cutters should be used to avoid tearing or burnishing the surfaces to be bonded
- A high solids content adhesive with gap filling properties should be used. (Polyvinyl Acetate or Urea Formaldehyde)
- Mating pieces should be accurately located and held under pressure while the adhesive is setting
- The width of grooves machined in CaberWood MDF should be limited to about one third of the thickness of the board

Wall panels
CaberWood MDF can be fixed using conventional dry lining techniques. For best results, follow these recommendations:
- Before fixing, condition the board for a minimum of 24 hours in the area of use
- An expansion gap of 10mm or 2.5mm per metre (whichever is the greater) must be allowed, on length and width
- Gaps are normally left as ‘feature gaps’, or they may be concealed by a suitable cover strip
- Provision should be made to ventilate the side fixed to battens
- Fix boards to supports with screws as specified at 200mm intervals, 25mm from edges. Screw length should be 2.5 times board thickness. Use 400mm centres for boards of less than 12mm

Heat transfer foil
Heat transfer foil can be applied to CaberWood MDF by a simple one-step drying process. When wood grain foil has been applied to a surface, a coat of lacquer can be applied by conventional methods to provide additional protection.

Resin impregnated papers
Melamine resin impregnated papers can be laminated to MDF by following the same procedures adopted for melamine-faced particleboard.

Wood veneering
CaberWood MDF’s smooth surface provides a suitable substrate for the application of wood veneer using Urea Formaldehyde (UF) or cross linked Polyvinyl Acetate (PVA) adhesives as the bonding agent. The close thickness tolerance on CaberWood MDF ensures uniformity of pressure over all panels in a press load.

Adhesive data

<table>
<thead>
<tr>
<th>Adhesive</th>
<th>Polyvinyl Acetate</th>
<th>Urea Formaldehyde</th>
<th>Neoprene</th>
<th>Copolymer Dispersions</th>
<th>Epoxide</th>
<th>Hot Melt</th>
<th>Polyurethane</th>
<th>Solvent Based</th>
<th>PMDI</th>
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<tbody>
<tr>
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<tr>
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</table>
Sealing and painting

The smooth surface of CaberWood MDF makes it suitable for successful finishing with a wide range of coatings. Alternatively, the natural appearance of the MDF surface can be enhanced using a transparent stain with a clear lacquer topcoat. High gloss or matt finishes can be achieved. The selection of the finishing system, on the basis of chemical type, will depend on the scale of production, application equipment, drying facilities and the expected performance of the finish in relation to the conditions of use. Modern combined systems are possible, e.g. UV sealers, basecoats / AC (acid catalysed) topcoat.

The surfaces to be finished should be free from dust or sanding marks. CaberWood MDF is suitable for most matt finishing treatments without further sanding. An additional light sanding with 180/220 grit is recommended when using high gloss finishes or where a minimum coating thickness is required. High absorption of lacquer or paint into the machined edges of MDF can be prevented by the application of an appropriate sealer such as shellac, polyurethane diluted polyvinyl acetate (PVA) or specially formulated high solids sealers based on two-component catalysed resins. Edge sealing is recommended. The sealed edges can be stained if required, and then finished with one or two coats of clear or tinted lacquer to match the finish on the surface.

For information and advice on suitability of paints and lacquers contact the following:

FIRA
Furniture Industry Research Association
www.fira.co.uk

SDF
Scottish Decorators Federation
www.scottishdecorators.co.uk

PDA
Painting and Decorating Association
www.paintingdecoratingassociation.co.uk

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We want to ensure you’ve got the right product for the job, so offer free samples of each of our products. A5 in size, they’re individually labelled and wrapped in an informative cover.

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We are committed to sourcing all our timber from well-managed, FSC®-certified forests and other controlled sources.

**Forest Stewardship Council®**

The FSC® product label allows consumers worldwide to recognise products that support the growth of responsible forest management. In an increasingly environmentally aware marketplace, many demand the FSC® mark on their wood products – with West Fraser it comes as standard.

At West Fraser, all of our UK and European facilities are regularly visited by a team of environmental auditors, so there is always something better to strive for and a new standard to set. West Fraser is a name you can trust to deliver, and to keep its promises.

**Net carbon negative**

Here in the UK our products have been certified as net carbon negative. We lock up more carbon than we emit: 1.18 million tonnes of CO2e per year. Our engineered wood panel products help UK construction comply with net zero targets.

Find out more at uk: uk.westfraser.com/carbon-negative

**Investing in the environment**

In the UK, West Fraser has invested heavily in environmental improvements since 1995. This includes air cleaning technology such as state-of-the-art WESPS (wet electrostatic precipitators). It also means investment in recycling facilities. We can generate as much as half our mills’ energy needs by using wood residues as fuel – composting what is left.

By reusing and conserving, we safeguard the environment and keep our costs down. In turn, our products are good for the environment and also good for your budget.

All of our UK mills have obtained the coveted environmental ISO 14001 accreditation. The ISO 14000 family addresses environmental management. This details what the organisation does to:

- Minimise harmful effects on the environment caused by its activities
- Achieve continual improvement of its environmental performance
YOUR CUSTOMER SUPPORT TEAM

Our team are here to help - whatever your need or question, we’re at the end of the phone.

Business Development Team
Dedicated to helping our customers increase their sales of our product range.
Whether it be a joint approach to business development, or fulfilling your training needs, our team of Business Development Managers are available to help you. Please see our website for your local contact.

Customer Service Team
Based at our head office near Stirling, Scotland, our team can help you with any questions you might have about availability, deliveries, pricing queries, or anything else you can think of.
Orders should be placed directly via email to: salesorders@norbord.net
Our Internal Sales Team are available via the sales phone line: 01786 819 225

Contact
For general enquiries, technical support or advice on West Fraser products please contact us.
General enquiries:
T: 01786 819 225
Technical advice:
SterlingOSB Zero
T: 01463 792 424
CaberFloor
CaberWood MDF
T: 01786 819 449
Accounts:
T: 01786 819 214

Scott Tavener 07798 633 992
Roisin Weir 07778 633 706
Conor Woolven 07825 682 921
Baz Keshvara 07557 484 696
TBC 07717 301 115
Mark Lewis-Ranwell 07552 213 837
Alister Rattenbury 07442 495 733

West Fraser UK Sales Contacts

Scott Tavener 07798 633 992
Roisin Weir 07778 633 706
Conor Woolven 07825 682 921
Baz Keshvara 07557 484 696
TBC 07717 301 115
Mark Lewis-Ranwell 07552 213 837
Alister Rattenbury 07442 495 733
For more information on any of our products and technical documentation:

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CaberFloor
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