

Engineered wood panels Product range





Systems you can trust



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CaberFloor p14

PANEL PRODUCTS FOR EVERY APPLICATION



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CARBON

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FSC[®] C012533 The mark of responsible forestry

CE

EXCELLENT SERVICE LEVELS

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



REPUTATION FOR DELIVERING ON TIME



CONSISTENT QUALITY

INTERACTIVE BROCHURE. Quickly navigate to a desired section by clicking on the page base controls and side tabs.



CARBON - NEGATIVE-

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 CO_2e in our products than we emit making them. **FACT.**

UK Gov net zero

Carbon Dioxide (known as CO_2) 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. Positive future.

Carbon negative. How we've done it.



Our products lock in 1.1 million tonnes of CO₂e every year

ISO

14001

All West Fraser's UK manufacturing

sites are certified to the coveted

environmental criteria of ISO14001



For every 1m³ of OSB we make in the UK, 828kg of CO₂e is sequestered



99.5% of all raw material is used, with less than half a percent being wasted



Low energy LED lighting, with motion sensors, is being installed across our sites



We've reduced our air miles by 19% from 2017-2019



74% of our primary energy use is from renewable sources

All our products are FSC[®] certified and can 100% be recycled

Our fleet of diesel company cars is being replaced with hybrid vehicles CaberMDF

THE #1 CHOICE

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 UK-made 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.



A 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 PrimedPlus

SterlingOSB Zero

Systems you can trust

Versatile flooring system for domestic and commercial floors, CaberFloor is stable, durable and easy to lay. CaberFloor P5
 CaberDek
 CaberAcoustic

CaberFix D4 (Adhesive)
 CaberFix Joint&Joist (Adhesive)
 CaberFix Tape

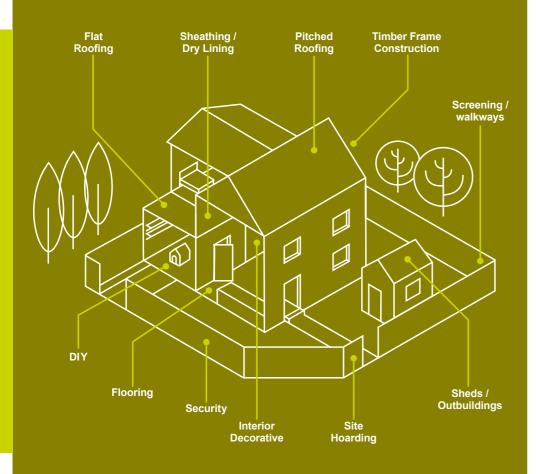
CaberMDF[®] The professional's range

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

- CaberMDF Trade
 CaberMDE Trade
- CaberMDF Trade MR
- CaberMDF Pro
- CaberMDF Pro MR
 CaberMDF Industrial

Strength you can build on

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[®] OSB3

For structural use in dry or humid load bearing conditions

SterlingOSB[®] Zero[®] T&G

T&G profile strengthens connecting panels for roofing and flooring

SterlingOSB[®] Zero[®] PrimedPlus

Pre-painted with a UV coating and sealed edges ready for immediate use or the application of graphics SterlingOSB Zero 11

A versatile range, designed for purpose

		Reco produ		nded
oplic	ation*	SterlingOSB Zero OSB3	SterlingOSB Zero T&G	SterlingOSB PrimedPlus
	DIY projects	•	•	•
	Garden sheds	•		
ທ	Packaging and pallets	•		
Use in dry conditions	Shelving / boxing in	•		•
puos	Internal hoarding	•	•	•
dry	Exhibition displays	•		•
e in	Built-in furniture	•		•
ŝ	Interior decorative	•	•	•
	Site hoardings	•		•
	Agricultural buildings	•		•
	Caravans	•		•
ions	Portable buildings	•		•
ondit	Flooring	•	•	
Use in humid conditions	Wall sheathing	•		
hum	Flat and pitched roofs	•	•	
e e	Timber frame	•	•	
ŝ	Dry lining			

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



A SterlingOSB[®] Zero[®] PrimedPlus

Pre-painted with a UV coating and sealed edges ready for immediate use or the application of graphics

- Pre-painted with a high quality cross-linked epoxy acylate UV cured coating on one side
- · Sealed with a unique wax impregnated hydroscopic edge treatment
- · Available in white or grey

- A blank canvas for marketing messages
- · Can be used inside and out immediately
- · Designed for use with promotions and events, exhibition stands, the hospitality sector, as screening, as walkways, as site hoardings
- All the inherent benefits of SterlingOSB Zero

Product	Thickness mm	Length mm	Width mm	Edge profile	Sheets per pack
	9, 11, 15, 18	2400	1200	SE	100, 84, 60, 50
	9	2440	1200	SE	100
SterlingOSB Zero OSB3	9, 11, 14, 15, 18, 22	2440	1220	SE	100, 84, 60, 60, 50, 40
	9	2700	1200	SE	100
	18	2400	1200	TG2	50
	18	2440	1200	TG2	50
SterlingOSB Zero T&G	18	2440	1220	TG2	50
	18	2400	590	TG4	100
	18	2400	625	TG4	100
SterlingOSB Zero PrimedPlus	18	2440	1220	SE	50

SterlingOSB Zero conforms with





SterlingOSB Zei

p28



14 CaberFloor

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.

CaberFix®

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

INDEX

CaberDek[®]

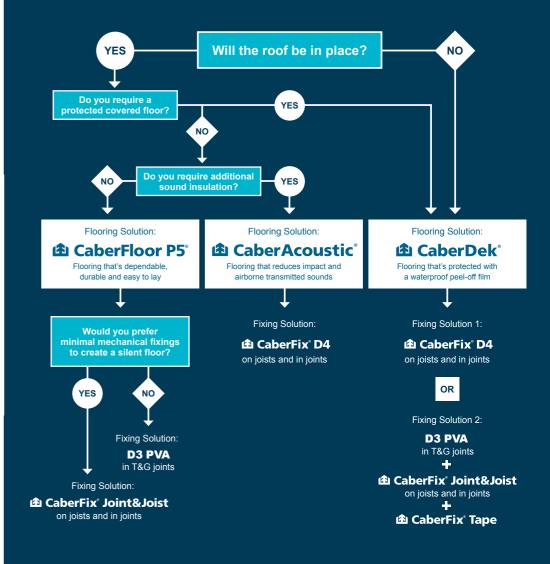
P5 with a strong, waterproof and slip-resistant peelable film, that when removed leaves a clean finished floor.

CaberAcoustic[®]

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

What's best for you?

A guide to choosing the most suitable flooring system



*Important information about CaberFix D4. All professionals and industrial users must complete training before using products containing more than 0.1% of monomeric diisocyanates - visit https://uk.westfraser.com/safe-handling-training-for-pu-adhesives/ for details and training



Recommended product							
		CaberFloor P5	CaberFloor P5	CaberDek	CaberDek	CaberAcoustic	CaberAcoustic
	Thickness (mm)	18	22	18	22	28	32
	Dry Domestic	•	•	•	•	•	•
	Domestic new build	•	•	•	•	•	•
Application	Refurbishment	•	•	•	•	•	•
Appli	Commercial		•		•		•

CaberFloor P5 particleboard

reduce sound transmission.

CaberFloor P5 with a 10mm

with an acoustic layer to

• Available as 18 or 22mm

sound reducing layer

Reduces impact sounds

Contributes to airborne

• Made in the UK using

• All the inherent benefits

noise reduction^{††}

eco recycled felt

of CaberFloor P5

transmission by $\Delta L_{...}$ 19dB⁺

CaberFloor

89d

Flooring solutions

CaberFloor P5[®]

High-strength P5 wood

and most other floors.

· Tongue and groove or

Moisture-resistant

Provides an excellent

surface for subsequent

floor laying operations

· Removes the need for

· Strong and robust

intermediate noggins

square-edged profile

• Stable, durable, easy to lay

particleboard for domestic

CaberDek[®]

from the elements and construction mess.

- Incorporates a strong
- Impact, puncture and tear resistant film withstands high site traffic
- 44dB sound reduction when used in conjunction with leading I-beam and insulation manufacturers
- exposure* when installed with CaberFix

- waterproof and slip-resistant peelable film

- BBA approved for 42 days

P5 grade flooring protected

- Complies with BS EN312: part 5

[†] 19dB sound reduction applies when CaberAcoustic is installed on its own. Greater reductions applicable when used within a system for noise transference reduction (see website for details). tt When used in the right system

*When installed according to manufacturer's instructions

Product	Thickness mm	Length mm	Width mm	Edge profile	Sheets per pack
CaberFloor P5	18, 22	2400	600	TG4	100, 82
CaberDek	18, 22	2400	600	TG4	100, 82
CaberAcoustic	28 [†] , 32 [†]	2400	600	TG4	100, 82

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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.

CaberFix[®] Joint&Joist

A fast-setting hybrid polymer adhesive that provides a silent, flexible waterproof bond in CaberFloor flooring.

CaberFix[®] Tape

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



CaberFloo

When installed according to manufacturer's instructions

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CaberFloor

Adhesives and sealing solutions

CaberFix® D4

A one-bottle adhesive and sealing solution that provides BBA approval* on CaberDek.

- 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[®] Joint&Joist

A fast-setting, strong hybrid polymer adhesive designed for use with CaberFloor flooring.

- Provides a strong, silent bonding layer between floor and joists
- · Creates a waterproof bond 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[®] Tape

Polyethylene-coated cloth tape for sealing CaberDek flooring during construction.

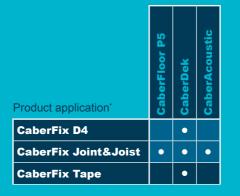
- 100% waterproof for sealing exposed joints and perimeter edges
- Easy to tear and conform to irregular surfaces
- · UV resistant for durability
- Provides BBA approval for 42 days exposure when installed as part of the CaberFix sealing and fixing system*

*When installed according to manufacturer's instructions

Product quantities	Product	Size	Format	Units per box
Adhesives	CaberFix D4	1kg	Bottle	12
Adnesives	CaberFix Joint&Joist	300ml	Cartridge	12
Таре	CaberFix Tape	48mm x 50m	Roll	24

Important information about CaberFix D4

All professionals and industrial users of CaberFix D4 must complete training before using products containing more than 0.1% of monomeric diisocyanates - for details and training visit https:// uk.westfraser.com/safe-handling-training-for-pu-adhesives/



CaberFloor conforms with



** Dependent on type



UK

The mark of responsible forestry

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*When installed according to manufacturer's instructions

CaberMDF[®]

The professional's range

The versatile MDF range for quality finishing. Designed as an economical alternative to hardwood without the inherent defects of knots or grains.



CaberMDF[®] Trade

A versatile lightweight board ideal for end uses where weight is a factor

CaberMDF[®] Pro

Consistent density ensures cutting and routing need minimal finishing

CaberMDF[®] Industrial

The ultimate MDF, ideal for deeper routing and advanced finishing techniques

CaberMDF[®] Trade MR

All the benefits of CaberMDF Trade with the added advantage of moisture resistance

CaberMDF[®] Pro MR

Premium grade MDF that performs even in occasionally wet / humid environments

General purpose MDF, renowned for its performance

CaberMDF[®] 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

🖆 CaberMDF° **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

Application*

Recommended product	Shop fitting	General purpose joinery	Furniture	Wall panelling	Kitchen & bathroom joinery	Exhibition displays	Caravan manufacture	Door manufacture	Fire surrounds	Window boards	Mouldings	Wrap mouldings	Architectural mouldings	
CaberMDF Trade	•	•	•			•								
CaberMDF Trade MR	•	•	•		•		•							
CaberMDF Pro	•	•	•	•				•	•		•		•	
CaberMDF Pro MR	•	•	•	•	•		•	•		•			•	
CaberMDF Industrial	•				•			•	•		•	•	•	



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

Product details	Thickness mm	Length mm	Width mm	Edge profile	Sheets per pack
	12	2440	1220	SE	75
	15	2440	1220	SE	60
CaberMDF Trade	18	2440	1220	SE	50
	18	3050	1220	SE	42
	22	2440	1220	SE	32
	25	2440	1220	SE	35
	12	2440	1220	SE	75
CaberMDF	18	2440	1220	SE	50
Trade MR	18	3050	1220	SE	40
	25	2440	1220	SE	35

CaberFloor p14

Premium quality and well suited to detailed working

CaberMDF[®] 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

CaberMDF[®] 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

CaberMDF[®] 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 CaberMDF Industrial MR is un-dyed



CaberMDF Pro's consistent density ensures a high quality finish. *Any modifications to the surface of the board, such as paints, adhesives, laminates etc may affect the fire retardancy performance

CaberMDF Pro (SE)

	5	Sheets	per pac	k per F	Panel th	nicknes	is (mm)	
Panel Size (mm)	6	9	12	15	18	22	25	30
2440 × 1220	60	60	60	48	50	32	30	24
3050 × 1220	78	60	48	40	32	32	24	18

CaberMDF Pro MR (SE)

	\$	Sheets per pack per Panel thickness (mm)								
Panel Size (mm)	6	9	12	15	18	22	25	30		
2440 × 1220	96	76	60	48	40	32	30	24		
3050 × 1220	-	60	48	-	32	32	24	18		

SterlingOSB Zero

CaberFloor p14

CaberMDF

CaberMDF conforms with

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Panel products for every application

			Application	SterlingOSB Zer	CaberFloor
			Roofing	•	
SterlingOSB [®] Zero [®]			Flooring	•	•
Strength you can build on	Strong, consistent and great value, the SterlingOSB Zero range is ideal	SterlingOSB Zero OSB3 SterlingOSB Zero T&G	Walling / Partitioning	•	
	for structural applications.	SterlingOSB Zero PrimedPlus	Timber frames	•	•
			Security	•	
🖄 CaberFloor		• CaberFloor P5 • CaberFix D4 (Adhesive) • CaberDek • CaberFix Joint&Joist (Adhesive)	Shopfitting	•	•
Systems you can trust	Versatile flooring system for domestic and commercial floors, CaberFloor	CaberAcoustic CaberFix Tape	Walkways	•	
	is stable, durable and easy to lay.		Screening	•	
			Furniture	•	
街 CaberMDF°		CaberMDF Trade CaberMDF Trade MR	Other	•	•
The professional's range	Engineered with consistent density for multiple use throughout the shop fitting, construction and furniture industries.	• CaberMDF Trade MR • CaberMDF Pro • CaberMDF Pro MR • CaberMDF Industrial			

CaberMDF

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Furniture

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Roofing p30

Flooring p34

Walling p44

Timber frames p48

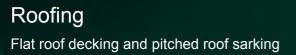
Security p52

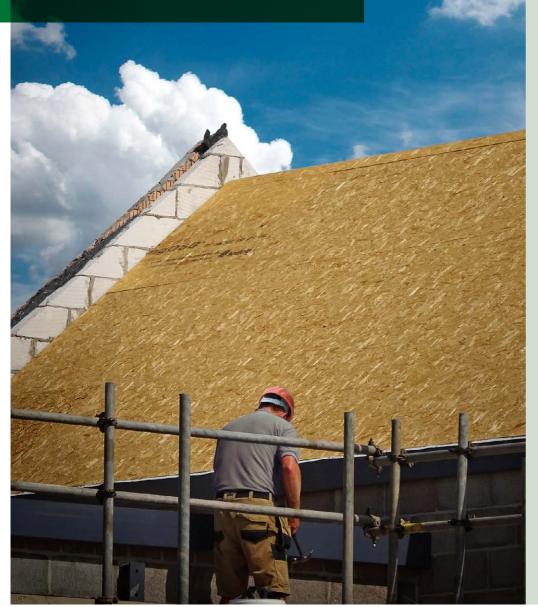
Shopfitting p56

Furniture

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Other p64





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.

Roofing

Recommended product:

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

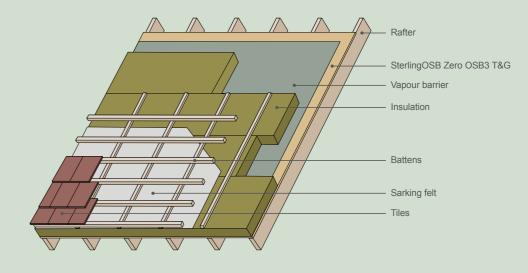
- Panels must be laid with the long edges at 90° to supports, and short edge joints must be staggered
- All short edges must be supported on joists or noggins
- Panel edges must bear approx.
 20mm into joists
- Nailing must be at least 8mm from the panel edges
- The tongue and groove edge does not require 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, BBA Agrément Certificate No 01/3857 and DD ENV 12872:2000.

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

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

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Other

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SterlingOSB Zero

For technical product

For further product

Flooring New-build, replacement, domestic and commercial

> 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.

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Flooring

Technical p68

Roofing

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Flooring Recommended products:

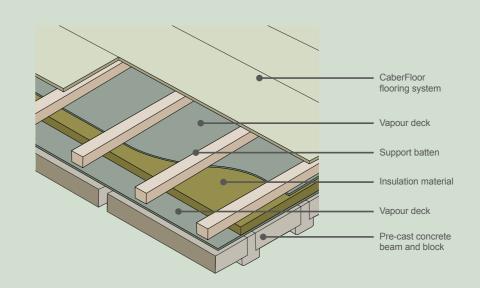
CaberFloor P5[®]

🚯 CaberFix®

CaberDek[®]

▲ CaberAcoustic[®]

High-strength flooring systems for domestic and commercial flooring, they are stable, durable and easy to lay while complying to BS EN 312.



Best product for application

	CaberFloor P5	CaberFloor P5	CaberDek	CaberDek	CaberAcoustic	CaberA coustic
i ckness (mm)	18	22	18	22	28	32
/ Domestic	•	•	•	•	•	•
mestic new build	•	•	•	•	•	•
furbishment	•	•	•	•	•	•
mmercial		•		•		•

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

CaberFloor For further product information, see page

For further product information, see page 14 For technical product information, see page 78

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Furniture

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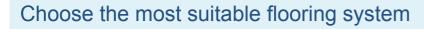
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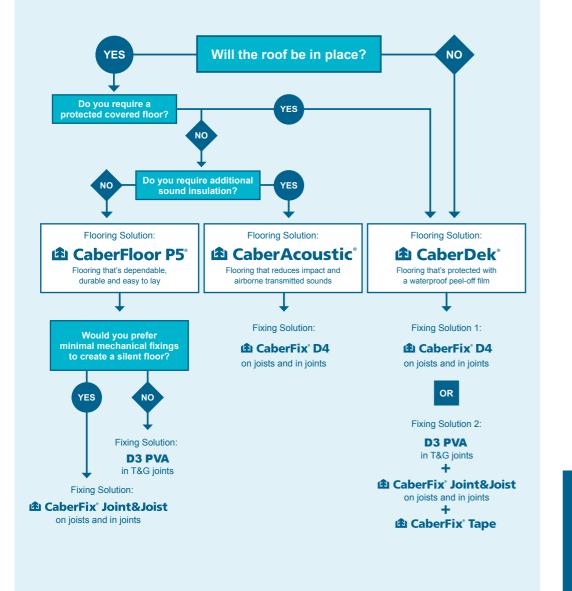
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p30 Flooring p34 Walling p44 Timber frames p48 Security p52

Roofing

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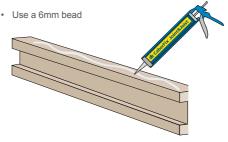




CaberFloor P5 installation quick guide

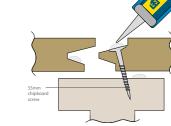
Step 1. Adhesive I-joist application

- 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



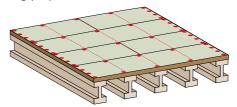
Step 2. Secret fixing & adhesive application

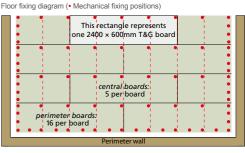
- Continue laying boards in a staggered format. Panels should be secretly screwed through the tongue at T&G joints at every joist
- Apply a 6mm bead of CaberFix Joint&Joist to T&G joints as shown



Step 3. Fixings per board / perimeter & sealing

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





CaberFix[®] Joint&Joist

CaberFloor P5 is best used with CaberFix Joint&Joist, an adhesive that will adhere to a wide variety of materials, creating a strong, silent, and flexible waterproof 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 bond

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Roofing

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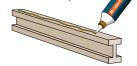
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Installation guick guide

CaberDek with D4 installation instructions

Step 1. Adhesive I-joist application

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.



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

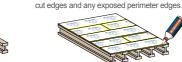
A liberal application of CaberFix D4 adhesive should be made to both the tongue and groove of the profile joint of each panel to ensure that the entire joint is bonded. When the boards are pushed together a small amount of adhesive should squeeze out of the T&G, sufficient to cover



Step 4. Panel fixings

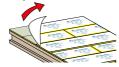
Continue laying boards in a staggered format. Panels may be secretly nailed through the tongue at T&G joints. For optimum performance we recommend a minimum of 5 mechanical fixings per 22 × 2400 × 600mm board when fitted at 600mm centres, i.e. 1 fixing per joist.

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,





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 Joint&Joist + Tape + D3 PVA 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 4. Panel fixings



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.



using CaberFix Tape.

Immediately after a run of panels have been

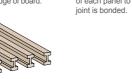
fixed, all board joints, nail runs and exposed

edges around the perimeter should be sealed

Step 5. Taping

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 x 2400 x 600mm board when fitted at 600mm centres. i.e. 1 fixing per joist.



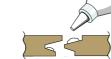


Step 3. Adhesive T&G application

A liberal application of D3 PVA

adhesive should be made to both the

tongue and groove of the profile joint



of each panel to ensure that the entire

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.



Important information about CaberFix D4

All professionals and industrial users of CaberFix D4 must complete training before using products containing more than 0.1% of monomeric diisocvanates - for details and training visit https://uk.westfraser.com/safe-handling-training-for-pu-adhesives/



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

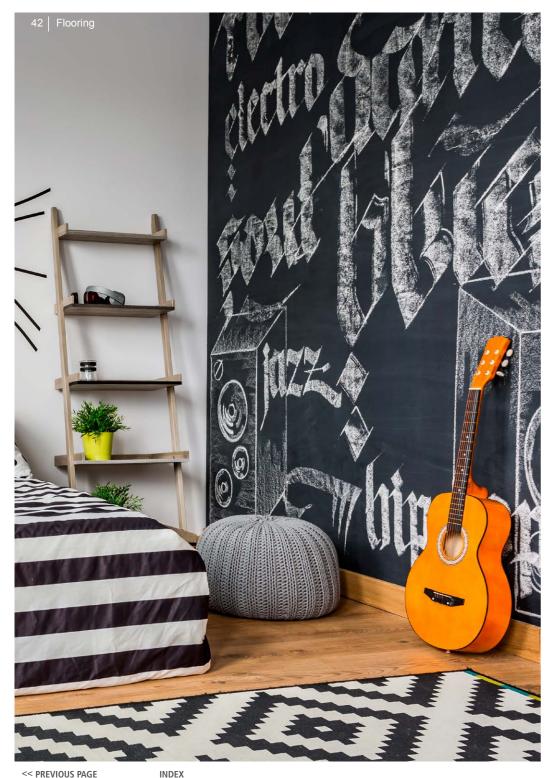
CaberDek is best used with CaberFix D4, an adhesive that bonds flooring to joists, T&G joints and seals exposed perimeter and edges to provide full BBA approval for up to 60 days exposure.

- Foaming adhesive easy to see T&G joints are sealed
- BBA approved for up to 42 days exposure*
- One adhesive making the job more efficient and cost-effective

*When installed according to manufacturer's instructions

CaberFix D4

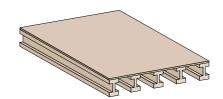
<< PREVIOUS PAGE



CaberAcoustic with D3 PVA

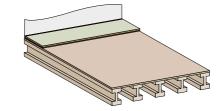
Step 1. Deck preparation

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.



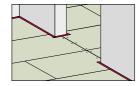
Step 3. Perimeter panel positioning

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



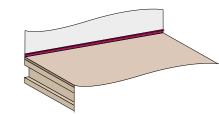
Step 5. Complete sealing

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.



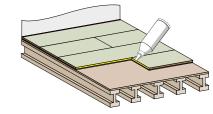
Step 2. Perimeter flanking

Place the flanking strip against the wall /perimeter of the floor - no fixings are required.



Step 4. T&G adhesive application

Continue to lay CaberAcoustic boards in a staggered format and apply a 6mm bead of D3 PVA to the T&G joints.



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Flooring

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Walling

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Timber frames

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Walling / Partitioning Wall sheathing, partitioning and Structural Insulated Panels (SIPs) Forget about knots or voids spoiling your plans, SterlingOSB Zero lets you just get on with the job. Roofing p30

Other p64

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Walling / Partitioning

Recommended products:

SterlingOSB[®] Zero[®] OSB3

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

SterlingOSB[®] Zero[®] PrimedPlus

Our coated board is ideal for walkways, exhibitions, barriers and screening. It's ready for immediate use or graphics and is a blank canvas for your messages.



Appl	ication*	Sterling0\$	Sterling0\$
	Exhibition displays	•	•
tions	Interior decorative	•	•
Dry conditions	Internal hoarding	•	•
Dry	Dry lining	•	
suo	Wall sheathing	•	•
Humid conditions	Partitioning	•	•
id co	Agricultural buildings	•	•
Hum	Portable buildings / Caravans	•	•

OSB3

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

Thickness (mm)

Max. span* (domestic)

Nail centres (edges)

Weight (approx.)

Nail centres (intermediate)

Face smooth nail retention**

Edge screw retention

Face screw retention

Sheathing

9 mm

610 mm

150 mm

300 mm

3.5 kg/m²

158 N

625 N

Roofing

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Flooring

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Timber frames

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Shopfitting

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Roofing

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Timber Frames

All aspects of a house build; structural, flooring, interiors

High grade boards speed up construction because minimal finishing is required.

48 Timber Frames





Timber Frames

Recommended products:

🛍 Sterlin	ngOSB° Zero°
OSB3	

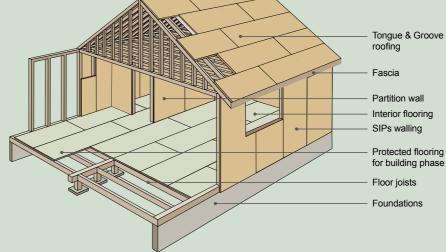
A SterlingOSB[®] Zero[®] T&G

🛍 CaberFix®

🛍 CaberDek[®]

INDEX

▲ CaberFloor P5°



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	Ste	Ste	Cab	Cab	Cab
Wall sheathing (humid conditions)	•	•			
Internal hoarding / decorative (dry conditions)	•	•			
Dry lining	•	•			
Roofing (pitched and flat)		•			
Domestic flooring (dry conditions)		•	•	•	•
Domestic flooring (clean finish in exposed conditions)				•	
Domestic flooring (exposed construction phase)				•	
*The above table provides general guidance only. It is recommended that you conduct small scale pilot tests to e CaberAcoustic is an overlay board.	nsure you h	ave the con	rect grade fo	or your end	use.
SterlingOSB Zero CaberFloor					

For technical product information, see page 69

Dek

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Flooring

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Shopfitting p56

Furniture p60

Other

Security

Shuttering, site hoarding and boarding-up





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.

SterlingOSB[®] Zero[®] PrimedPlus

Our coated board is ideal for walkways, exhibitions, barriers and screening. It's ready for immediate use or graphics and is a blank canvas for your messages.





	IPlus	•	High can
ro OSB3	Primed	•	Stroi softv
N	Zero	•	Quic adde
SterlingOSB	ngOSB	٠	Ster and
Sterli	SterlingOS	•	The zero
•	•	•	Mad
•			with
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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.

Application*

Fencing Screening

Walkway Security

Site hoarding

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
- SterlingOSB Zero PrimedPlus is coated, and ready for immediate use or graphics
- The first and only UK-made OSB with zero-added formaldehyde
- Made from responsibly sourced timber with a low carbon footprint

SterlingOSB Zero For further product information, see page 10 For technical product information, see page 69 p60

Other

p64



Shopfitting 57

Shopfitting

Displays, counters, boxing in, flooring and wall partitions

80

Achieving high quality results against a deadline is of paramount importance, and premium grade products ensure a precision finish every time.

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56 Shopfitting

Shopfitting

Recommended products:

I CaberMDF° Trade	企 CaberMDF [®] Trade MR	
I CaberMDF° Pro	企 CaberMDF [®] Pro MR	Application*
		Thickness range (mm)**
街 CaberMDF°		General purpose joinery
Industrial		Simple designs with minimal profiles
		Humid conditions
▲ CaberFloor P5°	🖄 CaberDek°	Deep routed profiles
௴ CaberFix °		Advanced, deep routed profiles and painted finishes
		Architectural mouldings; skirting and architraves
SterlingOSB [®] Zero [®]	SterlingOSB [®] Zero [®]	Commercial flooring
OSB3	T&G	Graphics and marketing messages
仓 SterlingOSB [®] Zero [®] PrimedPlus		
	CaberMDF, CaberFloor and SterlingOSB Zero include a wide range of grades to suit commercial applications where timing and quality are primary factors.	* The above table provides general guidance only. It is recommended conduct small scale pilot tests to ensure you have the correct grade
		end use. ** Other thicknesses are available on request.

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•

Best product for application

12-25 12-25 6-30 6-30 15-25 22

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CaberMDF

CaberFloor

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ded that you de for your

in the furniture industry.

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Furniture

Furniture

High volume production of domestic and commercial furniture

Roofing

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Furniture

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Other p64



CaberMDF 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.

Best product for application

cation*	CaberMDF Trade	CaberMDF Trade MR	CaberMDF Pro	CaberMDF Pro MR	CaberMDF Industrial	SterlingOSB Zero OSB3	
rs, tables, cabinets	•	•	•	•	•		
frames	•		•		•		
nen and bathroom furniture		•		•	•		
drobes	•		•		•		
ving			•	•	•	•	
ch frames						•	

Furniture

Recommended products:

LaberMDF[®] Trade

CaberMDF[®] Pro

CaberMDF[®] Industrial

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 CaberMDF[®] Trade MR

- **LaberMDF**° **Pro MR**
- SterlingOSB[®] Zero[®] OSB3

* 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.

Appli Chai

Bed

Kitch

Ward

She

Col

For further product information, see page 22

For further product information, see page 10

For technical product information, see page 69

NEXT PAGE >>

SterlingOSB Zero



Other Moulding and packaging

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.

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CaberMDF

information, see page 22 For technical product

information, see page 90

SterlingOSB Zero

For technical product

information, see page 69

Though individually unique, CaberMDF 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:

௴ CaberMDF[®] Trade

🛍 CaberMDF° Trade MR

- **CaberMDF**[®] Pro
- **A** CaberMDF[®] Industrial

- CaberMDF[®] **Pro MR**
- SterlingOSB[®] Zero[®] **OSB3**

Application [*]	CaberMDF Trade	CaberMDF Trade MR	CaberMDF Pro	CaberMDF Pro MR	CaberMDF Industrial	
Fire surrounds			•		•	
Staircases			•		•	
Wall panelling		•		•	•	
Doors			•	•	•	
Architectural moulding			•	•	•	

Best product for application

Packaging

Pallets / crates



* 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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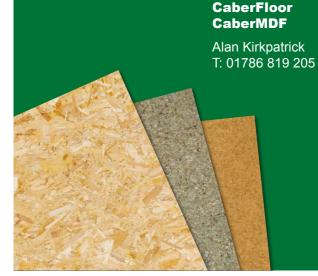
TECHNICAL INFORMATION

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



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Technical Support

For specialist product advice: SterlingOSB Zero

Steve McTaggart T: 01463 791 764

General Enquiries

For general West Fraser information:

T: 01786 819 225

SterlingOSB Zero technical data

Product specification

Property	EN Standard	Unit	Specification
Tolerance on the mean density within a board	323	mm	±15%
Length / Width Deviation	324-1	mm	±3
Thickness Deviation – unsanded	324-1	mm	±0.8
Thickness Deviation – sanded	324-1	mm	±0.3
Squareness – tolerance	324-2	mm/m	2
Straightness	324-2	mm/m	1.5
Linear Expansion (65%- 85% relative humidity)		%	0.15
Thermal Conductivity 'K' Value	13986	w/(m.k)	0.13
Reaction to Fire (BS EN 135 01-1)	13986		D
Formaldehyde	120	mg/100g	<8

Load bearing for use in humid conditions:

Requirements for specified mechanical & swelling properties

			OSB3 Requirement				
Property	EN Standard	Unit	6–10 mm	>10 to <18	18–25 mm		
Moisture Content	322	%	2-12	2-12	2-12		
Bending Strength – major axis	310	N/mm²	22	20	18		
Bending Strength – minor axis	310	N/mm²	11	10	9		
Modulus of Elastidty in bending – major axis	310	N/mm²	3500	3500	3500		
Modulus of Elastidty in bending – minor axis	310	N/mm ²	1400	1400	1400		
Internal Bond (IB)	319	N/mm ²	0.34	0.32	0.30		
Thickness Swelling (24hr immersion)	317	%	15	15	15		
Bending Strength after cydic test – major axis	321+ 310	N/mm ²	9	8	7		

Product sizes available

Product	Size (mm)	Thickness (mm)
SterlingOSB Zero OSB3 – Square Edged	2400 × 1200 2440 × 1220 2700 × 1200	9, 11, 15, 18 9, 11, 15, 18 9
SterlingOSB Zero OSB3 T&G – 2 edges	2400 × 1200 2440 × 1200	18, 22 18, 22
SterlingOSB Zero OSB3 T&G - 4 edges	2400 × 590	18

Other sizes are available on request.

Boards per pack

Thickness (mm)	9	11	15	18	22
Number of boards	100	84	60	50	41

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

	Thickness (mm)	Density	Bending		Tension		Compression		Panel Shear	Planar Shear
	+	р	$f_{\sf m}$		f_{t}		$f_{ m c}$		f_v	$f_{ m r}$
	ι _{nom}		0	90	0	90	0	90		
	> 6 to 10	550	18.0	9.0	9.9	7.2	15.9	12.9	6.8	1.0
	> 10 to 18	550	16.4	8.2	9.4	7.0	15.4	12.7	6.8	1.0
	> 18 to 25	550	14.8	7.4	9.0	6.8	14.8	12.4	6.8	1.0

Mean stiffness values (N/mm²)

Thickness (mm)	Bending		Tension		Compression		Panel Shear	Planar Shear
+	E _m		E _t		E _c		G _v	G _r
t _{nom}	0	90	0	90	0	90		
> 6 to 10	4930	1980	3800	3000	3800	3000	1080	50
> 10 to 18	4930	1980	3800	3000	3800	3000	1080	50
> 18 to 25	4930	1980	3800	3000	3800	3000	1080	50

The 5% characteristic values for stiffness should be taken as 0.85 times the mean values given in the tables above. Other properties not given in the tables shall comply with the requirements given in BS EN 300 for the grades OSB/2 or OSB/3.

Permissible Vertical Loads

Design vertical point (line) and uniformly distributed loads (UDL), per board thickness, per given span – spanning longitudinally, based on:

- 1. Material properties to BS EN 12369-1:2001 and BS EN 300:2006.
- 2. Structural design to Eurocode 5 (BS EN 1995-1-1:2004+A2:2014).
- 3. Performance characteristics as floors and roofs to BS EN 12871:2013.

Service Classes

weeks per year.

Permanent

Long-term

Short-term

Notes

Medium-term

Instantaneous

2. Point (line) loads are in kN.

Load Duration Class

Load Duration Class

Three service classes are defined in Eurocode 5.

Service Class 1 Characterised by a moisture content in the materials corresponding to a temperature of 20°C and the relative humidity of the surrounding air only exceeding 65% for a few

Service Class 2 Characterised by a moisture content in the materials corresponding to a temperature of 20°C and the relative humidity of the surrounding air only exceeding 85% for a few weeks per year.

Order of accumulated

duration of characteristic load

More than 10 years

6 months to 10 years

1 week to 6 months

Less than on week

Service Class 3 Climatic conditions leading to higher moisture contents than in Service Class 2.

Examples of loading

Self weight

Storage

Imposed load

Snow* and wind

Accidental load

Technical information

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Customer Support p1(

Uniformly distributed loads are in kN/m². Design load values are given for multi-span (i.e. boards continuous over 3 or more supports) cases.

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

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 and the load factor for variable

- 5. Permissible deflection is considered as: 1/150th of span.
- 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'.

actions γ_0 = 1.35, under Service Classes 1 and 2 conditions for long-term and medium-term loadings.

Note: 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.

7. The information and design load values are for guidance only and the liability is excluded.

Table 1: **Multi-span** (3 point support) – **Uniformly distributed load** (Eurocode 5) (a) Service Class 1

0	Decise	SterlingOSB Zero OSB3 thickness (mm) and Load Duration										
Span (mm)	Design limit	9		1	11		15		18		22	
` '		Long	Med	Long	Med	Long	Med	Long	Med	Long	Med	
300	Strength	6.67	9.33	9.07	12.7	16.87	23.62	21.93	30.7	32.75	45.85	
300	Deflection	1.63	2.28	2.98	4.17	7.56	10.58	13.06	18.28	23.84	33.37	
350	Strength	4.9	6.86	6.67	9.33	12.4	17.35	16.11	22.55	24.06	33.69	
350	Deflection	1.03	1.44	1.88	2.63	4.76	6.66	8.22	11.51	15.01	21.02	
400	Strength	3.75	5.25	5.1	7.15	9.49	13.29	12.33	17.27	18.42	25.79	
400	Deflection	0.69	0.96	1.26	1.76	3.19	6.66	5.51	7.71	10.06	14.08	
450	Strength	2.96	4.15	4.03	5.65	7.5	10.5	9.74	13.64	14.56	20.38	
450	Deflection	0.48	0.68	0.88	1.24	2.24	3.13	3.87	5.42	7.06	9.89	
500	Strength	2.4	3.36	3.27	4.57	6.07	8.5	7.89	11.05	11.79	16.51	
500	Deflection	0.35	0.49	0.64	0.9	1.63	2.28	2.82	3.95	5.15	7.21	
550	Strength	1.98	2.78	2.7	3.78	5.02	7.03	6.52	9.13	9.74	13.64	
550	Deflection	0.26	0.37	0.48	0.68	1.23	1.72	2.12	2.97	3.87	5.42	
600	Strength	1.67	2.33	2.27	3.18	4.22	5.91	5.48	7.67	8.19	11.46	
000	Deflection	0.2	0.29	0.37	0.52	0.94	1.32	1.63	2.28	2.98	4.17	
650	Strength	1.42	1.99	1.93	2.71	3.59	5.03	4.67	6.54	6.98	9.77	
000	Deflection	0.16	0.22	0.29	0.41	0.74	1.04	1.28	1.8	2.34	3.28	
700	Strength	1.22	1.71	1.67	2.33	3.1	4.34	4.03	5.64	6.02	8.42	
100	Deflection	0.13	0.18	0.23	0.33	0.59	0.83	1.03	1.44	1.88	2.63	
750	Strength	1.07	1.49	1.45	2.03	2.7	3.78	3.51	4.91	5.24	7.34	
130	Deflection	0.1	0.15	0.19	0.27	0.48	0.68	0.84	1.17	1.53	2.14	
800	Strength	0.94	1.31	1.28	1.79	2.37	3.32	3.08	4.32	4.61	6.45	
000	Deflection	0.09	0.12	0.16	0.22	0.4	0.56	0.69	0.96	1.26	1.76	

(b) Service Class 2

200	Strength	5.33	7.33	7.26	9.98	13.5	18.56	17.54	24.12	26.2	36.03
300	Deflection	1.13	1.55	2.06	2.84	5.23	7.2	9.04	12.43	16.51	22.7
350	Strength	3.92	5.39	5.33	7.33	9.92	13.64	12.89	17.72	19.25	26.47
350	Deflection	0.71	0.98	1.3	1.79	3.3	4.53	5.69	7.83	10.4	14.3
400	Strength	3	4.13	4.08	5.61	7.59	10.44	9.87	13.57	14.74	20.27
400	Deflection	0.48	0.66	0.87	1.2	2.21	4.53	3.81	5.25	6.96	9.58
450	Strength	2.37	3.26	3.23	4.44	6	8.25	7.8	10.72	11.65	16.01
450	Deflection	0.33	0.46	0.61	0.84	1.55	2.13	2.68	3.68	4.89	6.73
500	Strength	1.92	2.64	2.61	3.59	4.86	6.68	6.31	8.68	9.43	12.97
500	Deflection	0.24	0.34	0.45	0.61	1.13	1.55	1.95	2.69	3.57	4.9
550	Strength	1.59	2.18	2.16	2.97	4.02	5.52	5.22	7.18	7.8	10.72
550	Deflection	0.18	0.25	0.33	0.46	0.85	1.17	1.47	2.02	2.68	3.68
600	Strength	1.33	1.83	1.81	2.5	3.37	4.64	4.39	6.03	6.55	9.01
600	Deflection	0.14	0.19	0.26	0.35	0.65	0.9	1.13	1.55	2.06	2.84
650	Strength	1.14	1.56	1.55	2.13	2.88	3.95	3.74	5.14	5.58	7.67
050	Deflection	0.11	0.15	0.2	0.28	0.51	0.71	0.89	1.22	1.62	2.23
700	Strength	0.98	1.35	1.33	1.83	2.48	3.41	3.22	4.43	4.81	6.62
100	Deflection	0.09	0.12	0.16	0.22	0.41	0.57	0.71	0.98	1.3	1.79
750	Strength	0.85	1.17	1.16	1.6	2.16	2.97	2.81	3.86	4.19	5.76
750	Deflection	0.07	0.1	0.13	0.18	0.33	0.46	0.58	0.8	1.06	1.45
800	Strength	0.75	1.03	1.02	1.4	1.9	2.61	2.47	3.39	3.68	5.07
800	Deflection	0.06	0.08	0.11	0.15	0.28	0.38	0.48	0.66	0.87	1.2

Table 2: Multi-span (3 point support) – Point (line) load (Eurocode 5) (a) Service Class 1

Snor	Decim	SterlingOSB Zero OSB3 thickness (mm) and Load Duration										
Span (mm)	Design limit	Ş	9	1	1	1	5	18		22		
(,		Long	Med	Long	Med	Long	Med	Long	Med	Long	Med	
300	Strength	1	1.4	1.36	1.91	2.53	3.54	3.29	4.6	4.91	6.88	
300	Deflection	0.31	0.43	0.56	0.78	1.42	1.98	2.45	3.43	4.47	6.26	
250	Strength	0.86	1.2	1.17	1.63	2.17	3.04	2.82	3.95	4.21	5.9	
350	Deflection	0.22	0.31	0.41	0.57	1.04	1.46	1.8	2.52	3.28	4.6	
400	Strength	0.75	1.05	1.02	1.43	1.9	2.66	2.47	3.45	3.68	5.16	
400	Deflection	0.17	0.24	0.31	0.44	0.8	1.67	1.38	1.93	2.51	3.52	
450	Strength	0.67	0.93	0.91	1.27	1.69	2.36	2.19	3.07	3.28	4.59	
400	Deflection	0.14	0.19	0.25	0.35	0.63	0.88	1.09	1.52	1.99	2.78	
500	Strength	0.6	0.84	0.82	1.14	1.52	2.13	1.97	2.76	2.95	4.13	
500	Deflection	0.11	0.15	0.2	0.28	0.51	0.71	0.88	1.23	1.61	2.25	
550	Strength	0.55	0.76	0.74	1.04	1.38	1.93	1.79	2.51	2.68	3.75	
550	Deflection	0.09	0.13	0.17	0.23	0.42	0.59	0.73	1.02	1.33	1.86	
600	Strength	0.5	0.7	0.68	0.95	1.27	1.77	1.64	2.3	2.46	3.44	
000	Deflection	0.08	0.11	0.14	0.2	0.35	0.5	0.61	0.86	1.12	1.56	
650	Strength	0.46	0.65	0.63	0.88	1.17	1.64	1.52	2.13	2.27	3.17	
000	Deflection	0.07	0.09	0.12	0.17	0.3	0.42	0.52	0.73	0.95	1.33	
700	Strength	0.43	0.6	0.58	0.82	1.08	1.52	1.41	1.97	2.11	2.95	
100	Deflection	0.06	0.08	0.1	0.14	0.26	0.36	0.45	0.63	0.82	1.15	
750	Strength	0.4	0.56	0.54	0.76	1.01	1.42	1.32	1.84	1.97	2.75	
750	Deflection	0.05	0.07	0.09	0.13	0.23	0.32	0.39	0.55	0.72	1	
800	Strength	0.38	0.53	0.51	0.71	0.95	1.33	1.23	1.73	1.84	2.58	
-000	Deflection	0.04	0.06	0.08	0.11	0.2	0.28	0.34	0.48	0.63	0.88	
(b) Ser	vice Class	s 2										

(b) 3e

200	Strength	0.8	1.1	1.09	1.5	2.02	2.78	2.63	3.62	3.93	5.4
300	Deflection	0.21	0.29	0.39	0.53	0.98	1.35	1.7	2.33	3.1	4.26
350	Strength	0.69	0.94	0.93	1.28	1.74	2.39	2.26	3.1	3.37	4.63
350	Deflection	0.16	0.21	0.28	0.39	0.72	0.99	1.25	1.71	2.27	3.13
400	Strength	0.6	0.83	0.82	1.12	1.52	2.09	1.97	2.71	2.95	4.05
400	Deflection	0.12	0.16	0.22	0.3	0.55	1.13	0.95	1.31	1.74	2.39
450	Strength	0.53	0.73	0.73	1	1.35	1.86	1.75	2.41	2.62	3.6
450	Deflection	0.09	0.13	0.17	0.24	0.44	0.6	0.75	1.04	1.38	1.89
500	Strength	0.48	0.66	0.65	0.9	1.21	1.67	1.58	2.17	2.36	3.24
500	Deflection	0.08	0.1	0.14	0.19	0.35	0.49	0.61	0.84	1.11	1.53
550	Strength	0.44	0.6	0.59	0.82	1.1	1.52	1.44	1.97	2.14	2.95
550	Deflection	0.06	0.09	0.12	0.16	0.29	0.4	0.5	0.69	0.92	1.27
600	Strength	0.4	0.55	0.54	0.75	1.01	1.39	1.32	1.81	1.97	2.7
000	Deflection	0.05	0.07	0.1	0.13	0.25	0.34	0.42	0.58	0.77	1.06
650	Strength	0.37	0.51	0.5	0.69	0.93	1.28	1.21	1.67	1.81	2.49
650	Deflection	0.05	0.06	0.08	0.11	0.21	0.29	0.36	0.5	0.66	0.91
700	Strength	0.34	0.47	0.47	0.64	0.87	1.19	1.13	1.55	1.68	2.32
100	Deflection	0.04	0.05	0.07	0.1	0.18	0.25	0.31	0.43	0.57	0.78
750	Strength	0.32	0.44	0.44	0.6	0.81	1.11	1.05	1.45	1.57	2.16
750	Deflection	0.03	0.05	0.06	0.09	0.16	0.22	0.27	0.37	0.5	0.68
800	Strength	0.3	0.41	0.41	0.56	0.76	1.04	0.99	1.36	1.47	2.03
000	Deflection	0.03	0.04	0.05	0.07	0.14	0.19	0.24	0.33	0.44	0.6

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SterlingOSB Zero

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

Coating

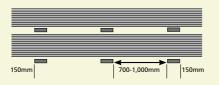
When choosing a coating system, the desired longevity, decorative effect and level of maintenance should be considered.

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. Manufacturers' 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 waterbased system. Experience shows that adequate preservative



king Correct method of storage on bearers

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.

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 noggins
- Panel edges must bear approx. 18mm onto joists
- Nailing must be at least 8mm from the panel edges

• All T&G joints should be glued with a PVA adhesive

SterlingOSB Zero installation advice

- 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.

Customer Support

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Spans & nailing centres	Flooring		Flat Roofing			Sarking	Sarking under slates	Sheathing
Thickness (mm)	15	18	11	15	18	9	18	9
Max. span* (domestic) (mm)	450	600	400	600	610	600	610	610
Nail centres (edges) (mm)	300	300	100	100	100	150	100	150
Nail centres (intermediate) (mm)	300	300	100	100	100	300	100	300
Weight kg/m² (approx.)	9.6	11.7	7.3	9.6	11	3.5	11	3.5
Face smooth nail retention** (N)	265	320	184	265	320	158	320	158
Edge screw retention (N)	673	647	592	673	647	-	647	-
Face screw retention (N)	833	854	692	833	854	625	854	625

* Refer to tables on page 72 regarding UDL Limits.
 ** Compared to smooth nails, improved nails will impresent to performance by around 50%

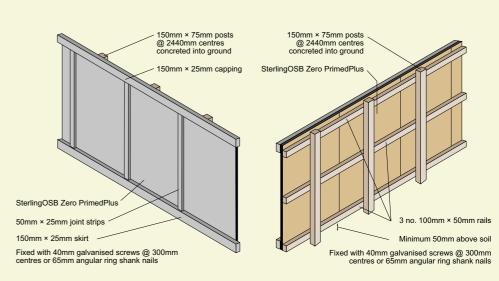
SterlingOSB Zero PrimedPlus

To achieve the optimum performance and life expectancy of the SterlingOSB Zero PrimedPlus panels, the installation guide must be closely followed. Prior to erecting the panels, ensure that the timber hoarding frame has been constructed to a suitable specification that provides adequate support for panel edges and fixings.

SterlingOSB Zero PrimedPlus boards are pre-painted with a high quality cross-linked epoxy acylate UV cured coating, then sealed with a unique wax impregnated hydroscopic edge treatment to be used immediately in any indoor or outdoor situation to provide protection from weathering and dirt ingression.

The coated board, under normal working conditions, has been designed to withstand typical exterior conditions without the need for further painting, but can be over painted if required.

- 1 Ensure panels are erected a minimum of 50mm above soil and well clear of any low-lying water.
- 2 Provide a minimum 3mm expansion gap between panels when erecting on to the timber framing (we recommend joint strips to provide extra protection).
- 3 Provide a minimum 10mm expansion gap where panels are next to walls and other solid surfaces (we recommend a joint strip to provide extra protection).
- 4 Fix panels to supporting timber framing with 50mm galvanized screws ensuring these are spaced at between 200 – 300mm centres. Ensure that screw heads finish flush with the panel surface (we recommend the use of a depth sensitive bit holder and that it is adjusted accurately).
- 5 Paint all screw heads* using a liberal application of a quality exterior grade oil / solvent based gloss paint. *If the screw heads are mistakenly driven below the panel surface, the screw holes must be filled with a quality exterior grade flexible wood filler, allowed to dry, and then painted over with oil / solvent based gloss paint.
- 6 Fix joint strips, top and bottom skirting and top capping, taking care not to damage the panel edges.



Hoarding installation guide



CaberFloor technical data

CaberFloor P5, CaberDek and CaberAcoustic

	Unit	18mm	22mm
Panel Weight	kg/m²	12	15
Panel Weight (2400×600mm)	kg	17.3	21.6
Density	kg/m³	660 ± 30	660 ± 30
Internal Bond strength (IB) (After cyclic test)	MPa MPa	0.45 0.22	0.40 0.2
Modulus of Rupture (MoR)	MPa	16	14
Modulus of Elasticity (MoE)	MPa	2400	2150
Moisture Content	%	5-8	5-8
Thickness Swelling 24hr immersion After cyclic test	% %	10 12	10 11
Standard Deviation of Thickness Within boards Between boards	mm mm	± 0.2 ± 0.5	± 0.2 ± 0.5
Dimensional Stability Length / Width Thickness	%	0.25 7.0	0.25 7.0
Low Emission Grade E1 (Formaldehyde EN 120)	mg/100g	≤8.0	≤8.0
Reaction to Fire (EN 13501-1)		Class D _{EI} -S1	Class D _{FI} -S1

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.

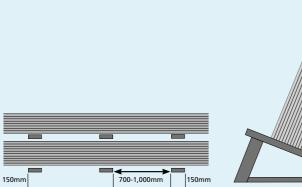
Product sizes available

Product	Application	Thickness (mm)	Size (mm)	Edge profile
CaberFloor P5	Structural flooring	18, 22	2400 × 600	TG4
CaberDek	Structural flooring	18, 22	2400 × 600	TG4
CaberAcoustic	Overlay flooring	28, 32	2400 × 600	TG4
CaberFloor P1	Non-structural general use	12, 18	2440 × 1220	SE
CaberFloor P2/P3	Furniture & Kitchen worktops	various*	various*	SE

CaberDek removable film

	Unit	Test method	Value
Film weight	g/m²	DIN 53365	70
Tensile strength MD	N/15mm	DIN EN ISO 527	55
Tensile strength CD	N/15mm	DIN EN ISO 527	45
Ultimate elongation MD	%	DIN EN ISO 527	700
Ultimate elongation CD	%	DIN EN ISO 527	500
Tear propagation strength MD	N	DIN 53363	35
Tear propagation strength CD	N	DIN 53363	30
Water Vapour Permeability (23°C/85%r.F.)	g/m²/d	DIN 53122	0.36
Temperature extremes	°C	In-house	- 40 / + 80
Puncture resistance	N	MIL STD 3010-2065	55

CaberFloor storage and conditioning





Correct method of storage on bearers

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.

Correct method of edge stacking

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.

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

Equilibrium moisture content

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.

Whilst no product containing around 80% wood in its composition can be unaffected by moisture – CaberFloor P5 at ex-works (around 5-8 % moisture content) is close to the natural equilibrium moisture content of particleboards (see table) and is consequently an excellent choice.

Note:

Care should be taken to out leading to 'creaks', prefer to additionally bond PVA adhesive).

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In large areas or long runs

additional expansion gaps

Additional movement

It is well documented and

strongly recommended that

additional movement gaps are

incorporated in large areas or

8201:2011 Code of practice for

installation of flooring of wood

provision of 2mm per metre run

plus 1mm for every metre above

12m of the width and breadth of

according to the diagram above

and also proprietary systems

are available to suit a wide

the floor. A simple movement

provision can be made

range of applications.

long runs e.g. corridors. BS

and wood-based panels

recommends an expansion

should be included

gaps

CaberFloor installation advice



Panel thickness is dependent on joist span

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, 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 joists. 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 woodbased 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.

Important information about CaberFix D4

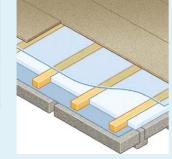
All professionals and industrial users of CaberFix D4 must complete training before using products containing more than 0.1% of monomeric diisocyanates - for details and training visit https://uk.westfraser.com/safe-handling-training-for-pu-adhesives/

Vapour control laver

without battened floor

CaberFloor installation advice





Continuously supported floating floor

Battened floating floor

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 floors

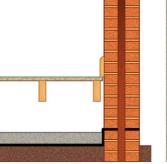
Use additional support battens where extra floor loading is anticipated and the exact position is known, e.g. beneath kitchen equipment and sanitary fittings. When required, use a levelling screed to ensure that the battens of a timber battened system are true and level. Do not attempt to fix the flooring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

Doorway threshold

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 / suspended

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

struts in the subfloor. Use

to solid strutting e.g. above

sleeper walls.

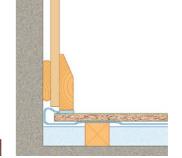
of the subfloor space, taking

care not to obstruct ventilators

by insulation material or timber

herringbone struts in preference

timber floors



Vapour control laver with battened floor

Advice on moisture protection

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

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

T&G panel fixing methods*

CaberFloor installation advice

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 joist \sim Glue in T&G joint çentral boards Mechanical fixing positions 5 fixings per board NB: Screws / nails should be positioned minimum 16 fixings per board 10mm from edges and 20mm from corners Glued to joists method 600mm central boards: 17 fixings per board 400mn ímeter boards 24 fixings per board

Mechanical fixing to joists method *Mechanical fixing methods do not apply to CaberAcoustic when used as a floating floor overlay

Taping CaberDek

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





Mechanical fixings positions

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 ioints 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.

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 ioisted / fixed floor constructions. Noggins should be used between the joists at 300mm centres and the surface

provided for tiling should be

15mm exterior grade plywood

can therefore be overlaid with

provide the necessary rigidity

for a tiled surface. Length of

overall board thickness. A tile

adhesive is the recommended

bond material - cement / sand

mortars are not recommended.

fixings should be 2.5 times

screwed to joists and noggins at

300mm centres. Existing boards

15mm exterior grade plywood to

These systems are often used in flatted developments to achieve 'Part E' requirements of UK Building Regulations.

For more info on acoustic flooring see website.

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.

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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 ΔL_w19dB*

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 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.
^w When used in the right system.

Hush System 2003 overlay (HD1014)

Impact L' _{nT,w} dB	51
Airborne D _{nT,w} dB	58
Airborne D _{nT,w} + C _{tr} dB	49

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

Hush System MF28 overlay (HD1038)

Impact L' _{nT,w} dB	51
Airborne D _{nT,w} dB	58
Airborne D _{nT,w} + C _{tr} dB	52

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

Hush overlay for masonry system (HD1018)

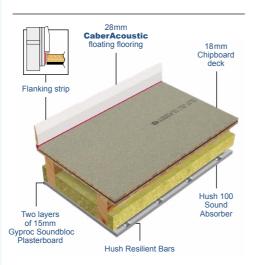
Impact L' _{nT,w} dB	45
Airborne D _{nT,w} dB	62
Airborne D _{nT,w} + C _{tr} dB	55

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

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CaberAcoustic

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



Product data

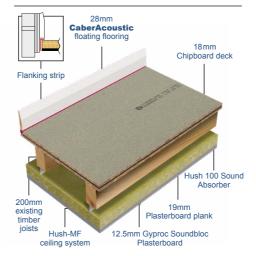
- CaberAcoustic 28, all T&G joints to be glued using D3 PVA. CaberAcoustic panel to be laid over 18/22mm T&G chipboard or existing floorboards. All perimeters of the CaberAcoustic panel to be sealed using the flanking strips.
- Hush 100 Sound Absorber fitted between joists with Hush Resilient Bars screw fixed to the underside of joists at 600mm centres.
- Two layers of 15mm 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

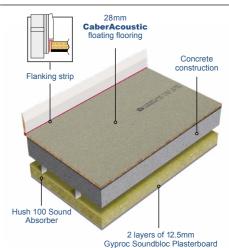
- CaberAcoustic 28, all T&G joints glued using D3 PVA, laid over 18mm/22mm chipboard deck, with all perimeters sealed using a flanking strip.
- Install the Hush-MF system to the underside of the joists creating a minimum 150mm void from the underside of the joists to the back of the plasterboard lining. 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 to 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 D3 PVA, with all perimeters sealed using a flanking strip, 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

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CaberMDF technical data

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: $\pm 0.2mm \le 22mm$ $\pm 0.3mm > 22mm$ PCP values are less than 5 ppm.

Low emission

All CaberMDF products conform to the latest European low emission standards

CaberMDF Trade

Property	Unit	≥4–6 mm	>6–9 mm	>9–12 mm	>12–19 mm	>19–30 mm	>30–45 mm
Thermal Conductivity 'K' Value	W/m.K			0.1	0.1	0.1	
Internal Bond (IB)	N/mm ²			0.45	0.45	0.45	
Modulus of Rupture (MoR)	N/mm ²			20	18	15	
Modulus of Elasticity (MoE)	N/mm ²			1700	1600	1500	
Thickness Swelling (24hr immersion)	%			16	14	12	
Moisture Content [ex-plant]	%			5-7	5-7	5-7	
Reaction to Fire*	BS EN 13501:1: 2007+A1:2009			D	D	D	
Formaldehyde Class	EN 13986:2004 +A1:2015			E1	E1	E1	

CaberMDF Trade MR

Property	Unit	≥ 4–6 mm	>6–9 mm	>9–12 mm	>12–19 mm	>19–30 mm	>30–45 mm
Thermal Conductivity 'K' Value	W/m.K			0.1	0.1	0.1	
Internal Bond (IB)	N/mm ²			0.45	0.45	0.45	
Modulus of Rupture (MoR)	N/mm ²			20	18	16	
Modulus of Elasticity (MoE)	N/mm ²			1700	1600	1500	
Thickness Swelling (24hr immersion)	%			16	13	12	
Moisture Content [ex-plant]	%			5-7	5-7	5-7	
Reaction to Fire*	BS EN 13501:1: 2007+A1:2009			D	D	D	
Formaldehyde Class	EN 13986:2004 +A1:2015			E1	E1	E1	

CaberMDF Pro

Property	Unit	≥4–6 mm	>6–9 mm	>9–12 mm	>12–19 mm	>19 - 30 mm	>30–45 mm
Thermal Conductivity 'K' Value	W/m.K	0.14	0.13	0.13	0.13	0.13	0.13
Internal Bond (IB)	N/mm ²	0.65	0.65	0.6	0.55	0.55	0.5
Modulus of Rupture (MoR)	N/mm ²	23	23	22	20	18	17
Modulus of Elasticity (MoE)	N/mm ²	2700	2700	2500	2200	2100	1800
Thickness Swelling (24hr immersion)	%	30	17	15	12	10	8
Moisture Content [ex-plant]	%	5-7	5-7	5-7	5-7	5-7	5-7
Reaction to Fire*	BS EN 13501:1: 2007+A1:2009	D	D	D	D	D	D
Formaldehyde Class	EN13986:2004 +A1:2015	E1	E1	E1	E1	E1	E1

CaberMDF Pro MR

Property	Unit	≥ 4–6 mm	>6–9 mm	>9–12 mm	>12–19 mm	>19–30 mm	>30–45 mm
Thermal Conductivity 'K' Value	W/m.K	0.14	0.13	0.13	0.13	0.13	0.13
Internal Bond (IB)	N/mm ²	0.7	0.8	0.8	0.75	0.75	0.7
Modulus of Rupture (MoR)	N/mm ²	27	27	26	24	22	17
Modulus of Elasticity (MoE)	N/mm ²	2700	2700	2500	2400	2300	2200
Thickness Swelling (24hr immersion)	%	18	12	10	8	7	7
Moisture Content [ex-plant]	%		5-7	5-7	5-7	5-7	5-7
Reaction to Fire*	BS EN 13501:1: 2007+A1:2009		D	D	D	D	D
Formaldehyde Class	EN 13986:2004 +A1:2015		E1	E1	E1	E1	E1

CaberMDF Industrial

Property	Unit	≥4–6 mm	>6–9 mm	>9–12 mm	>12 – 19 mm	>19–30 mm	>30–45 mm
Thermal Conductivity 'K' Value	W/m.K			0.13	0.13	0.13	
Internal Bond (IB)	N/mm ²			0.9	0.9	0.9	
Modulus of Rupture (MoR)	N/mm ²			26	24	22	
Modulus of Elasticity (MoE)	N/mm ²			2500	2400	2300	
Thickness Swelling (24hr immersion)	%			10	8	7	
Moisture Content [ex-plant]	%			5-7	5-7	5-7	
Reaction to Fire*	BS EN 13501:1: 2007+A1:2009			D	D	D	
Formaldehyde Class	EN 13986:2004 +A1:2015			E1	E1	E1	

*Refer to EN13986:2004+A1:2015, Table 8, for End Use Classifications

CaberMDF storage and conditioning



CaberMDF panel weight guide

For lifting & handling purposes using an 18mm panel thickness, the following should be used as a guide weight (kg per m^2).

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CaberMDF Trade / MR	10 kg/m⊡
CaberMDF Pro / MR	13 kg/m⊡
CaberMDF Industrial	14.5 kg/m□

Note: Calculations for guide weights for thicknesses other than 18mm, are pro-rata, e.g. 12mm CaberMDF Trade = $10 \text{ kg/m}^2 \times 12/18 = 6.7 \text{ kg/m}^2$.

Transport and storage

CaberMDF should be:

- Transported 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.

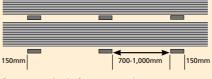
It is clearly desirable to minimise these changes, which can be applied prorata, by taking a few simple precautions. Boards should be allowed to reach equilibrium by storing them under the atmospheric conditions in which they are to be used, for a minimum of 48 hours prior to laying. It is recommended 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. **Technical information**

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Correct method of storage on bearers

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

CaberMDF machining advice

CaberMDF 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, CaberMDF can be treated as a high quality timber, but without the inherent defects of knots and grains.



Profiled edges require no edge banding or lipping

Machining

CaberMDF is a homogeneous wood fibre material, ideally suited to modern machine tooling.

CaberMDF can be worked easily with all conventional woodworking machines. It saws cleanly and drills easily. It also shapes and routs exceptionally well, without splintering or chipping. CaberMDF 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 CaberMDF 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 CaberMDF, and the absence of core voids which would require filling.



Sanding after moulding or routing produces a much smoother finish.

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 woodworking 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 Cutter Tip Tooth Body Tip to body clearance

Kerf

Back Angle

Beve



Saw blades and tools should have increased clearance angles to reduce resin build up and increase the life between sharpening. **Technical information**

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CaberMDF 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 CaberMDF 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.





Use screws with the non threaded core of a similar length to the thickness of the panel being jointed.

Use screws with parallel thread rather than traditional thread.

Parallel thread Traditional thread



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 CaberMDF.



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, CaberMDF 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 CaberMDF is not recommended because of the risk of splitting.

CaberMDF 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. **Technical information**

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CaberMDF fixing advice continued





Mitre joints between CaberMDF 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 CaberMDF should be limited to about one third of the thickness of the board

- The depth of groove should be about one half of the board thickness
- Adhesive bonded joints should be allowed to condition for several days before sanding and finishing to avoid the appearance of sunken joints This treatment is essential when using high gloss finishes
- A tongue and groove joint is very efficient, provided the fit of the joints is not too tight as this may cause a split along the edge
- When attaching lippings the tongue should be machined on the solid wood piece

Wall panels

CaberMDF 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

CaberMDF finishing advice

Laminating

Paper foils

The smooth, stable surface of CaberMDF makes it an ideal substrate for surfacing with decorative paper.

Flat platen presses developed for wood veneering are normally used for bonding heavier weight foils (80g/m² and higher). Short cycle platen presses and hot roller laminators are normally used for medium and lightweight foils. Adhesive coating weights in the range 80-100g/m² are typical for heavyweight foils and 60-80g/m² for medium and lightweight foils.

PVC foils

PVC foils are normally bonded at room temperature in a roller laminator using copolymer dispersions or epoxy adhesives. The panels emerging from the press should be stacked on a flat base for several hours to allow the bond to achieve full strength before further processing.

Heat transfer foil

Heat transfer foil can be applied to CaberMDF 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

CaberMDF'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 CaberMDF ensures uniformity of pressure over all panels in a press load. Facing and backing veneers must have approximately equal thickness and moisture content to ensure flatness. Wood veneered CaberMDF panels should be stacked flat and allowed to cool for a minimum of eight hours before further processing.

Choice of adhesive

CaberMDF can be joined with excellent results with most commercial brands of adhesives available to the furniture and joinery Industries. The choice of a specific type of adhesive will be determined by the surface characteristics of the other materials being bonded to the MDF. Consult your individual adhesive suppliers for more detailed specific information. **Technical information**

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Adhesive data	Polyvinyl Acetate	Urea Form- aldehyde	Neoprene	Copolymer Dispersion	Epoxide	Hot Melt	Polyurethane Solvent Based	PMDI
Wood veneering	•	•			•	•		
Plastic laminate veneering	•	•	•		•			
Paper foil laminating		•		•				
PVC foil laminating				•	•			•
Edge lipping or banding	•	•			•	•		
Assembly jointing	•	•			•	•		
Veneer foil wrapping	•					•	•	

CaberMDF finishing advice continued

Sealing and painting

The smooth surface of CaberMDF 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. CaberMDF 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

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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.





The mark of responsible forestry

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 CO_2e 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 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

Customer



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.

uk.westfraser.com /about-us/uk-sales-team

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@westfraser.com

Our Internal Sales Team are

available via the sales phone line: 01786 819 225

please contact us. General enquiries:

For general enquiries,

technical support or advice

on West Fraser products

Contact

T: 01786 819 225

Technical advice:

SterlingOSB Zero

T: 01463 792 424

CaberFloor CaberMDF

T: 01786 819 449

Accounts: T: 01786 819 214 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 CaberMDF** T: 01786 819 449



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