



A GUIDE TO OSB

Site Safety



Let's do the right thing!

MEDITE®
SMARTPLY®
INNOVATIVE TIMBER PRODUCTS





AN INTRODUCTION TO **MEDITE SMARTPLY**

MEDITE SMARTPLY is a market leading manufacturer of sustainable timber construction panels. Our award-winning brands **MEDITE** and **SMARTPLY** are renowned for delivering the highest quality products, customer-led innovation and industry leading customer service.

Our manufacturing sites in Clonmel (**MEDITE**) and Waterford (**SMARTPLY**) in Ireland feature the latest production technology to deliver straighter, flatter and more consistent panels than ever before, in a range of sizes and thicknesses unparalleled within the industry. Constant progression and investment have allowed **MEDITE SMARTPLY** to enter new diverse markets and sectors, meaning that there is always a fresh pipeline of new products to address market demands.

As part of the Coillte Group, we pride ourselves on our sustainable supply chain and manufacturing processes, meaning our products are as environmentally conscious in their make up as they are in their applications.

We have become known for adapting products and services to suit end users' needs, while maintaining a consistent stance on sustainability and creating products that add value throughout the supply chain.



A new standard

MEDITE SMARTPLY provides a diverse range of MDF and OSB panels with the aim of solving design and installation issues faced by the built industry today.

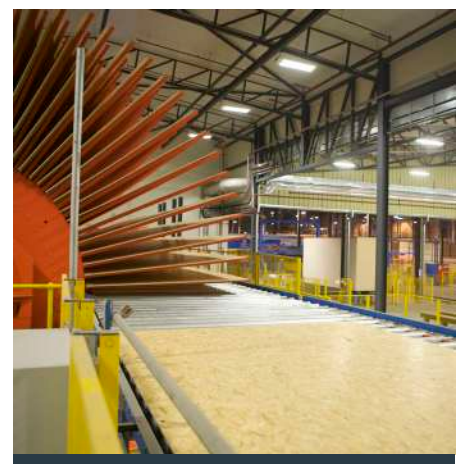
With unrivalled quality and environmental certification, **SMARTPLY OSB** is one of the most environmentally efficient building materials on the market. Each panel is made from sustainable, FSC®

certified, fast-growing timber: the forest thinnings of new-growth pine and spruce.

SMARTPLY OSB panels are fully certified, approved for structural use, CE and UKCA compliant, legal and sustainable alternatives to tropical plywood. We set the standard in product performance, structural integrity and largescale projects.

Furthermore, all our OSB products

are manufactured with no added formaldehyde as standard. This means that when working closely with our products, users can rest assured that each panel contains only the smallest possible level of formaldehyde that is naturally occurring in all wood products. This is also part of our aim to better enable the continued conscious creation of safe, healthy environments for building occupants.



We define the standard of OSB.



WHAT DOES SMARTPLY BRING TO SITE SAFETY?

The Health and Safety at Work Act 1974 demonstrates the duty of care that all construction companies and site managers are responsible for, which is to take all reasonable steps to ensure that both employees and the public are safe from construction work hazards.

Site hoarding is a crucial part of this, shielding site workers from outside debris and protecting the public from construction work.

SMARTPLY SITEPROTECT and **SITEPROTECT PLUS** are specially developed for a wide range of applications to secure your site. These include site hoarding, signage, boarding up access points and temporary walkways.

SITEPROTECT is quick to install, enabling your project to start on time and progress efficiently; durable enough to provide a secure barrier for the total length of projects; is able to incorporate appropriate signage and finally be aligned with the sustainability goals of the site.

Produced in panels of up to three metres tall, **SMARTPLY SITEPROTECT** is structurally sound, meaning it won't bend, break or allow your site to become easily accessed by unauthorised personnel. Its smooth surface also provides no inconsistencies, holes or potential footholds.

SMARTPLY SURE STEP DB is an airtight, tongue and groove OSB/3 panel

with a high-performance and durable coating. Using **SURE STEP DB** as an air tight layer for flooring or decking can contribute to sustainable building practices as well as reduce the energy consumption for heating, whilst the unique coating brings improved durability during the construction phase and slip resistance to the panel in all site conditions.

As hoarding represents the project for the duration of the build, good sustainability credentials are vital. Guaranteeing a clear supply chain, **SMARTPLY SITEPROTECT** is FSC® certified, made with the thinnings of fast-growing pine and spruce from sustainable Irish forests.



SMARTPLY SITEPROTECT SECURES SITE IN CITY CENTRE



Using pre-primed SMARTPLY SITEPROTECT helped save the project both time and money.

Titan Security Fencing was asked by Lancashire and Cumbria Demolition Contractors to install a hoarding around a site in Manchester where it was about to demolish an old storage warehouse. The hoarding was needed to protect the public from the works on site and to prevent unauthorised site access.

Titan Security Fencing has been using SMARTPLY SITEPROTECT for many years. Adrian Fletcher, managing director, says: "The beauty of SITEPROTECT is that because it is already primed, all the work has already been done on the board so it can go straight to site and because the finish is so good there is generally minimal preparation needed before we apply the paint finish; this saves us time and money and it means the client can start on site sooner because we're able to complete the hoarding installation in less time."

For this project, Titan Security Fencing used SITEPROTECT PLUS because it

has a primed finish on both sides. Adrian explains: "Because SITEPROTECT PLUS is a premium product, and because we design and build the hoardings in accordance with best practice, it ensures they can remain in place for the duration of the project, so when the demolition contractor hands over the site to the main contractor the hoarding will remain in place for use by the housebuilder".

Titan Security Fencing has even branded the hoarding in the housebuilder's colours. "They gave us the RAL colours, which in this instance was matt black with a tangerine orange trim top and bottom,

which we added after the hoarding had been erected," he says.

The 18mm thick SITEPROTECT PLUS hoarding boards are installed with a 3mm spacing between boards in accordance with SMARTPLY's installation recommendations. This allows the timber to expand as it absorbs moisture from the environment. Titan Security Fencing hides this joint with a narrow vertical trim.



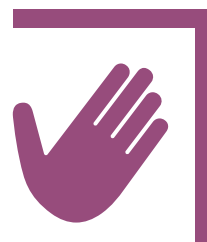
**Recognised
as a suitable
alternative to
plywood**

SMARTPLY SITEPROTECT features no knots or inconsistencies for a consistently robust and durable solution.



**Sustainably
sourced**

Manufactured using FSC® certified timber from sustainably managed Irish forests.



**Smooth
surface**

Ideal for painting and displaying signage or branding.

SMARTPLY SITEPROTECT SPECIFICATION



SMARTPLY SITEPROTECT is a primed site hoarding panel, designed to save you time and money. The SMARTPLY MAX (OSB/3) substrate has been coated with a smooth, heavy-duty, cross-linked polymer primer, meaning you just have to apply a topcoat to the face and edges*.

Primer can be applied to both faces, upgrading your hoarding even further into **SMARTPLY SITEPROTECT PLUS**, for those premium applications in high profile locations.

SMARTPLY SITEPROTECT is manufactured using only certified timber and is therefore perfect for maintaining sustainability throughout your entire site.

*follow paint manufacturer's recommendation for best results.

Features and Benefits:

- Durable panel for temporary exterior use
- Pre-primed smooth finish and ready to paint
- Speeds up installation of site hoarding
- Ready for branding and graphics to be applied
- Manufactured from FSC® certified timber from MEDITE SMARTPLY's own forests-assured supply of sustainable raw material
- UKCA and CE certified

We recommend that SMARTPLY SITEPROTECT is delivered to and painted in a dry and clean environment for the best finish and longevity, although it can also be delivered to and painted on site. It's available in thicknesses of 18mm and 16mm, for a lighter weight but just as durable option where ease of installation is paramount.

Sizes and Thicknesses

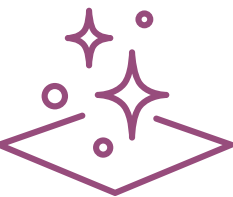
Product	Thicknesses	Primed	Faces*
SITEPROTECT	16/18mm	Face	2440 x 1220mm
SITEPROTECT PLUS	16/18mm	Both faces	2440 x 1220mm

Other sizes available upon request

Suitability

Developed specifically for use in applications from temporary construction site hoarding through to a range of security installations. SMARTPLY SITEPROTECT is ideal for painting and promoting your corporate colours.

For further technical information please visit: www.mdfosb.com or contact your local technical sales manager on 01322 424900.



Maintain a clean and safe site

Manufactured with safety and security in mind.



Ready to paint

Primed to save time ahead of painting and installation.



Time Saving

Larger panels can double output saving time on site.

SMARTPLY SURE STEP DB BENEFITS

CONSTRUCTION OF NEW DEVELOPMENT IN HAMPSHIRE



“SURE STEP DB protected floor deck is considerably more robust than standard OSB”

In the village of Sarisbury Green in Hampshire, a new residential development is being built by local developer Alpine Homes Limited, using a closed timber-frame panel system developed by low carbon structures manufacturer VerdeGO Timber Frames Ltd, and part of the build features none other than SMARTPLY SURE STEP DB.

Located between Fareham and Southampton, the timber frame installation work began on the three/four storey block of residential apartments in mid-February 2023. The structural frame including the roof was completed around the end of May 2023. SMARTPLY SURE STEP DB was specified for the flooring across all three floors.

For this project, it was essential to find a robust flooring panel that could withstand exposure to all weather conditions. This is why SMARTPLY SURE STEP DB was chosen.

“SURE STEP DB was suggested due

to an issue on a previous Alpine Homes development where standard 18mm OSB/3 panels had been used for the structural floor deck,” said Steve Ward, Operations Manager, VerdeGO Timber Frames Ltd. “After a prolonged (& unforeseen) period of exposure to the elements, a large area of the standard panels had to be cut out and replaced due to irreparable damage from exposure to weathering.

“To prevent that from happening on this project, Alpine Homes Ltd wanted us to provide additional protection from moisture penetration into the surface during the install as there is a complex

steel portal frame and cut roof, which we knew would take some time to complete following the install of the second-floor deck. SURE STEP DB forms a sub-deck over which an acoustic ‘floating-floor’ is being laid.”

“SURE STEP DB protected floor deck is considerably more robust than standard OSB in the same weather conditions, allowing a longer period between installation and making the building weathertight.”



Suitable for demanding structural applications

Ideal for timber frame and construction projects with large spans.



Sustainably sourced

Manufactured using FSC® certified timber from sustainably managed Irish forests.



High load-bearing capacity

For the ultimate in structural applications.

SMARTPLY SURE STEP DB SPECIFICATION



SMARTPLY SURE STEP DB is an airtight, tongue and groove OSB/3 panel with a high-performance and durable coating. This innovative panel has also been tested in a flooring system to meet the residential internal floor sound insulation requirements of 40dB for England, Wales and Northern Ireland.

Using SURE STEP DB as an air tight layer for flooring or decking can contribute to sustainable building practices as well as reduce the energy consumption for heating, whilst the unique coating brings improved durability during the construction phase and slip resistance to the panel in all site conditions.

Manufactured on the state of the art Controll® OSB production line and coated in our own factory SMARTPLY SURE STEP DB is a structural panel that can be used for many applications such as Flooring, Roofing, Modular construction, Offsite manufacturing, Timber frame construction, Steel frame construction and Temporary decking.

Features and Benefits:

- Can be exposed for up to 45 days without degradation
- Complies with Building Regulation requirements Part E in England & Wales, Technical Booklet G in Northern Ireland
- High performance coating reduces slip risk during construction
- Tested to meet the 40dB acoustic requirement for residential internal flooring
- Independently tested by 3rd party accredited laboratories
- Certified airtight by the Passivhaus Institute
- Lightweight panel - 30% lighter than 22mm chipboard
- 100% solids UV cured specialist coating (no solvents)
- Tongue and groove edges – quick and easy installation
- No added formaldehyde
- UKCA and CE certified

Sizes and Thicknesses

Available Thicknesses	18mm	22mm
Standard Sizes	2397 x 1200mm	2397 x 1200mm

Other sizes available upon request, subject to minimum order quantities

Suitability

Manufactured in accordance with EN 300 **SMARTPLY SURE STEP DB** is an airtight load bearing panel ideal for use as flooring or roof decking where airtightness, improved durability, temporary protection, reduced edge swelling or reduced surface degradation are required on projects.



**Airtight
OSB panel**

Airtight panel certified by the Passivhaus Institute

45

**days without
degradation**

SURE STEP DB can be exposed for up to 45 days without degradation



**Low slip
risk**

The panel offers safer working surfaces low slip risk

To request a sample, visit:
www.mdfosb.com/smartply/request-samples

To find out how we are setting new standards
in timber panel engineering, go to:
www.mdfosb.com/hoarding
V3-0824

Let's do the right thing!

MEDITE®
SMARTPLY® 
INNOVATIVE TIMBER PRODUCTS