

# SmartPly DryBacker

SmartPly DryBacker is designed to provide support for fixtures and fittings in non-structural metal stud constructions. SmartPly DryBacker is an engineered SmartPly OSB3 panel incorporating a continuous recess to accommodate 'C' shaped metal studs used in the construction of plasterboard partitions. SmartPly DryBacker is tested to the relevant sections of BS5234 Part 2 relating to pull-out strengths and is suitable for use in public access areas including corridors and stairwells, contributing to higher levels of impact resistance. SmartPly DryBacker is an OSB panel with zero added formaldehyde and therefore may also be useful in environmentally sensitive interior applications where formaldehyde emissions need to be kept to a minimum such as hospitals, laboratories museums and schools.



## Features and Benefits:

- Ready prepared modular panels - quick and easy to use
- Fully certified alternative to plywood – CE Marked
- Zero added formaldehyde – contributing to healthier environments
- Provides secure anchorage for fixtures and fittings
- Versatile - fits all commercially available systems
- Solid core – fix to any point on panel face
- Does not add to finished partition thickness
- Provides a robust partition structure
- Manufactured from FSC® timber from our own forests

## Quality and Environmental Certification:

SmartPly OSB is manufactured in accordance with the requirements of EN 300: *Oriented Strand Boards (OSB) – definitions, classification and specifications*.

SmartPly OSB is CE marked in accordance with the harmonised standard EN 13986: *Wood-based panels for use in construction – characteristics, evaluation of conformity and marking*.

This standard is a technical specification for wood-based panels which implements the provisions of the Construction Products Regulation (CPR) formerly the Construction Products Directive (CPD). In addition to the CE mark, SmartPly OSB panels are marked 2+ Structural for ease of reference.

SmartPly has achieved I.S. EN ISO 9001:2008, the internationally recognised quality management system which is certified by the National Standards Authority of Ireland (NSAI).

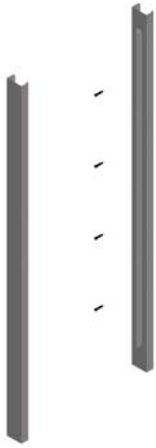
SmartPly has Forest Stewardship Council® (FSC)® Chain of Custody certification for its manufacturing, processing, sales and distribution processes.

SmartPly operates under an Integrated Pollution Prevention Control (IPPC) licence, which is monitored by the Environmental Protection Agency (EPA) in Ireland.

All SmartPly OSB3 products are manufactured using formaldehyde-free resin.

## Installation

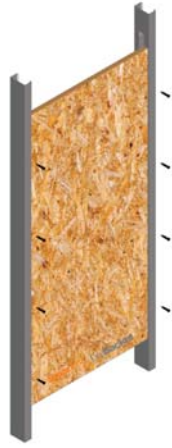
1. Install steel angle



2. Insert Drybacker



3. Fix DryBacker into position



4. Ready for plasterboard overlay



### Specification and Design:

- (a) The SmartPly DryBacker range is available in 596 x 2400 and 596 x 1200mm panels.
- (b) Panels are 18mm thick, other thicknesses available on request.
- (c) Panels to be fixed as per illustrations.
- (d) Drywall screws to BS EN14566, to be used when fixing SmartPly DryBacker to metal studs.
- (e) Self drilling wafer head type screws, to BS EN14566, to be used when fixing 25mm x 25mm steel angle sections to studs.
- (f) Angle sections to be 25mm x 25mm x 0.7mm galvanised steel angles – manufactured to the relevant BS EN standards.

**Suitability:** EN 300 classifies OSB panels by their properties which relate to their intended use. SmartPly OSB3 is classified as a load-bearing panel for use in humid conditions. Structures comprising SmartPly OSB3 should be assigned to service class 1 or 2 as defined in EN 1995-1-1 (Eurocode 5). According to this standard, SmartPly OSB3 is suitable for use in both of these service classes. Moisture conditions can affect the performance of wood-based panels. Therefore, it is important that the correct type of OSB is specified for a particular service class. Always check current regulations specific to the country of use.

As well as conditions in service, consideration must also be given to the construction phase where high levels of moisture or humidity often exist.



**Technical data**

Anchorage values according to BS 5234-2:1992 - Partitions - Part 2: Specification for performance requirements for strength and robustness including methods of test:

Pull-out Safe Working Loads (S.W.L.)			
Fixing type	BS5234-2 Requirements		Max. Recommended S.W.L.
3.5 x 50mm wood screws	1000 N	Pass	125 kg
4.5 x 50mm wood screws	1000 N	Pass	150 kg
Pull-down Safe Working Loads (S.W.L.)			
Fixing type	BS5234-2 Requirements		Max. Recommended S.W.L.
3.5 x 50mm wood screws	250 N	Pass	35 kg
4.5 x 50mm wood screws	250 N	Pass	45 kg
Heavyweight anchorage (wash basin) Safe Working Loads (S.W.L.)			
Fixing type	BS5234-2 Requirements		Max. Recommended S.W.L.
4.5 x 50mm wood screws	1000 N	Pass	100 kg
M8 x 70mm coach screws	1500 N	Pass	150 kg
Heavyweight anchorage (wall cupboard) Safe Working Loads (S.W.L.)			
Fixing type	BS5234-2 Requirements		Max. Recommended S.W.L.
3.5 x 50mm wood screws	2000 N	Pass	200 kg
4.5 x 50mm wood screws	2000 N	Pass	250 kg





### Transportation Storage and Handling:

Careful transportation, storage and handling are important to maintain panels in optimum condition prior to use.

- (a) Panels should be stacked flat and fully supported.
- (b) Panels should never be stacked on their edges otherwise panel distortion may result.
- (c) Protect panels from the elements during storage to avoid damage to the face and edge.
- (d) Do not leave packs or panels exposed to the weather prior to erection.
- (e) As with all timber products SmartPly DryBacker should be conditioned, on site, for a suitable period of time prior to installation.

Important notes: The recommendations provided in this Technical Data Sheet for the correct use of SmartPly DryBacker panels are specifically designed to ensure longevity and performance of this quality product in



service. It is therefore essential that these recommendations are strictly followed. The product is designed to be installed by a competent contractor, experienced with this type of product. SmartPly Europe Ltd cannot be held responsible for damages arising from non-adherence to these recommendations, or product failures resulting from inadequate structural design or misuse of this product.

If there is any concern that the use of SmartPly DryBacker might compromise any aspect of the performance of the partition in which it is being installed, please contact SmartPly Europe Ltd and the manufacturers of the partition components.

For further information and/or technical advice please contact your local Coillte Panel Products Sales Representative or Coillte Panel Products Technical Support Personnel through any of our European offices:

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As we continually update our technical datasheets, please check on [www.smartply.com](http://www.smartply.com) that you have the latest version. V 1/14

**SmartPly**<sup>®</sup>  
The Smart OSB Answer to Plywood

