



**CERTIFIED  
COMPONENT**

Passive House Institute

# **SMARTPLY SURE STEP**

Installation Guidance

**SMARTPLY<sup>®</sup>  
SURE STEP**





SMARTPLY SURE STEP is a tongue and groove OSB/3 panel with a high-performance and durable coating for improved performance during the construction phase of projects. It is an airtight panel, certified by PHI in Germany, for use in floor or decking as part of the airtightness layer of low energy and passiv buildings.

The unique coating brings improved durability and slip resistance to the panel in all site conditions.

#### Explanatory notes:

- Full airtightness is achieved by taping the joints between panels and with other material of the airtight layer. This guide is a demonstration of the best practice to achieve this, all steps should be followed in order to achieve the required level of airtightness.
- The photos in this installation guide are for demonstration purposes and were done in a training facility. Specialist wood glue, airtight tape and wall material were used in the demo wall and floor systems.
- To achieve full airtightness specialist airtight material should be used to ensure performance and durability. Recommendations and installation requirements from 3rd party manufacturers should be strictly followed.
- SMARTPLY would like to acknowledge the assistance of MosArt Ltd in the preparation of this best practice airtightness guidance document.

#### DISCLAIMER:

For full installation, usage recommendations and guidance please refer to the product datasheet and installation guidelines available on [www.MDFOSB.com](http://www.MDFOSB.com).

SMARTPLY SURE STEP can be used as part of the airtight layer of a construction project if installed as shown in this video. As part of a system, it is the responsibility of the specifier or contractor to ensure that 3rd party material (membranes, tapes, primer...) are suitable for the application and installed as recommended by the manufacturer.

## Applications

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

The unique and innovative coating, applied in house at SMARTPLY, is designed to sustain the effects of the weather and construction foot traffic while reducing the slip risk even in wet conditions.

Manufactured on the state of the art Controll® OSB production line and coated in our own factory SMARTPLY SURE STEP is a structural panel that can be used for many applications such as flooring, roofing, modular and offsite construction, temporary decking for timber and steel frame.

## Features And Benefits

- SMARTPLY SURE STEP properties have been independently tested by 3rd party accredited laboratories.
- Airtight panel certified by the Passivhaus Institute.
- SMARTPLY SURE STEP can be exposed for up to 42 days without degradation.
- The panel offers safer working surfaces – low slip risk
- OSB/3 grade panels for structural applications
- Light weight panels
- 100% solids UV cured specialist coating (no solvents)
- SMARTPLY SURE STEP has Tongue and Groove edges – easy to slide into place
- No added formaldehyde – contributing to healthier environments
- Manufactured from FSC® certified timber from our own forests – assured supply of sustainable raw material

## DETAIL 1 / SMARTPLY SURE STEP PANEL TO PANEL CONNECTION



1

- Cut Panels to required size



2

- Fix panels to joist as recommended



3

- Fixing 10mm from panel edge



4

- Allow 10mm from any adjoining surfaces

5

- Apply adhesive to T&G joint



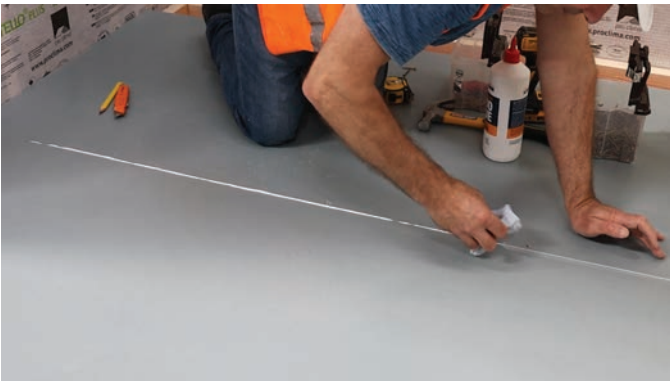
6

- Position panels together



7

- Clean excess adhesive



8

- Ensure surface is clean, dry and free of dust for tape adhesion





## DETAIL 1 / SMARTPLY PROPASSIV PANEL TO PANEL CONNECTION



9

- Apply 50mm airtight tape



10

- Ensure fixings are covered for durability

## DETAIL 2 / SMARTPLY PROPASSIV PANEL TO AIRTIGHT WALL CONNECTION



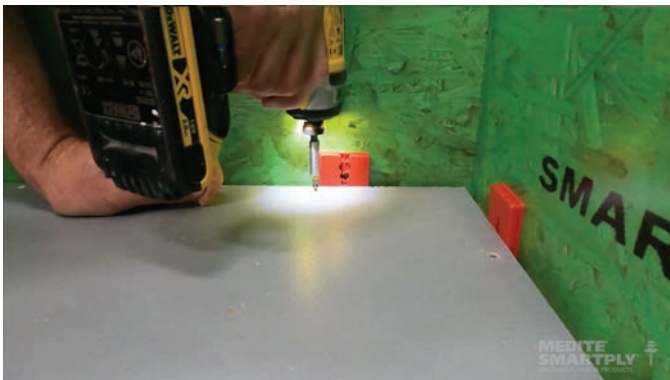
1

- Fix panels to joist as recommended



2

- Fixing 10mm from panel edge



3

- Allow 10mm from any adjoining surfaces



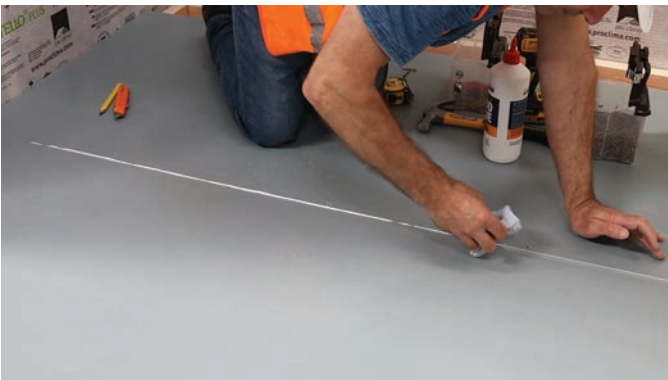
4

- Apply adhesive to T&G joint



5

- Position panels together



6

- Clean excess adhesive



7

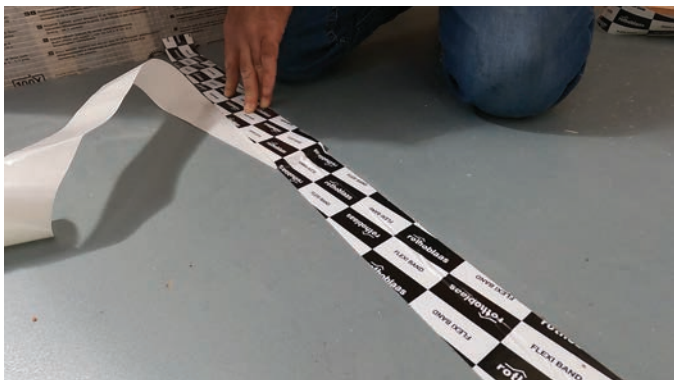
- Ensure surface is clean, dry and free of dust for tape adhesion



8

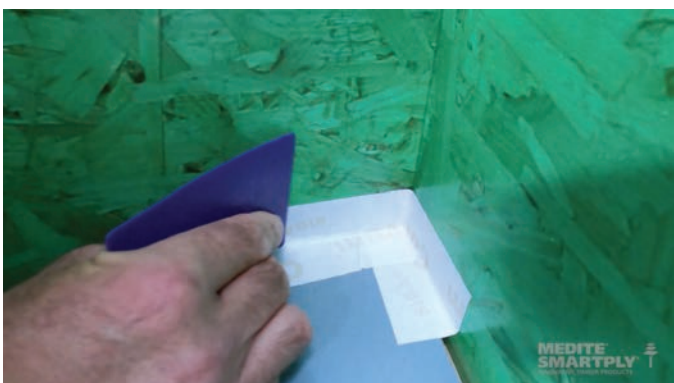
- Apply 50mm airtight tape

## DETAIL 2 / SMARTPLY PROPASSIV PANEL TO AIRTIGHT WALL CONNECTION



9

- Ensure fixings are covered for durability



10

- Apply 60mm airtight tape to corner



11

- Apply 60mm airtight tape to length of the joint



12

- Ensure fixings are covered for durability



## DETAIL 3 / SMARTPLY PROPASSIV PANEL TO AIRTIGHT MEMBRANE



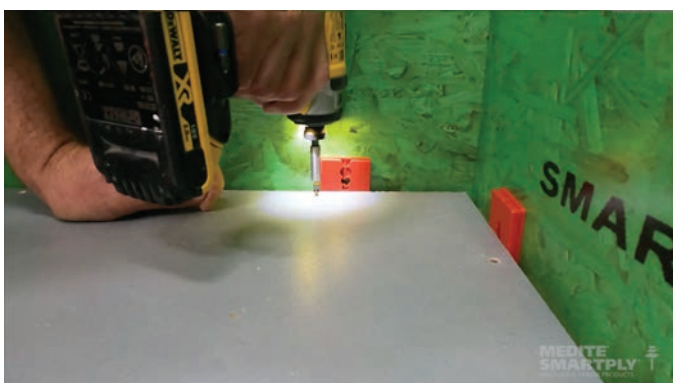
1

- Fix panels to joist as recommended



2

- Fixing 10mm from panel edge



3

- Allow 10mm from any adjoining surfaces



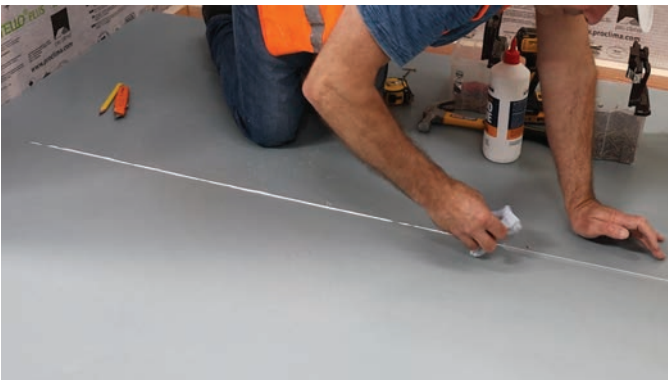
4

- Apply adhesive to T&G joint



5

- Position panels together



6

- Clean excess adhesive



7

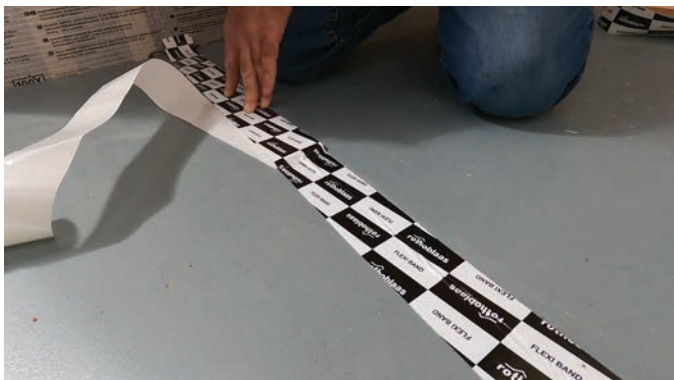
- Ensure surface is clean, dry and free of dust for tape adhesion



8

- Apply 50mm airtight tape

## DETAIL 3 / SMARTPLY PROPASSIV PANEL TO AIRTIGHT MEMBRANE



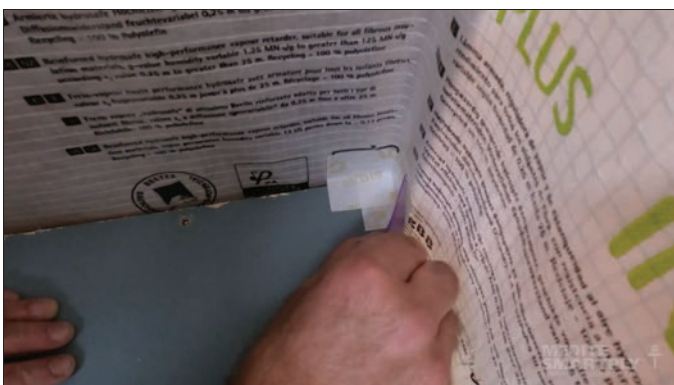
9

- Ensure fixings are covered for durability



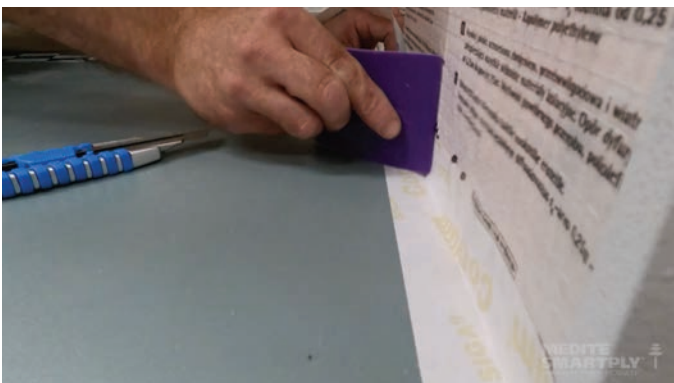
10

- Insert fixings 10mm from edge of board



11

- Apply 60mm tape starting with the corner



12

- Apply 60mm airtight tape to length of the joint



## DETAIL 4 / SMARTPLY PROPASSIV PANEL TO CONCRETE WALL CONNECTION



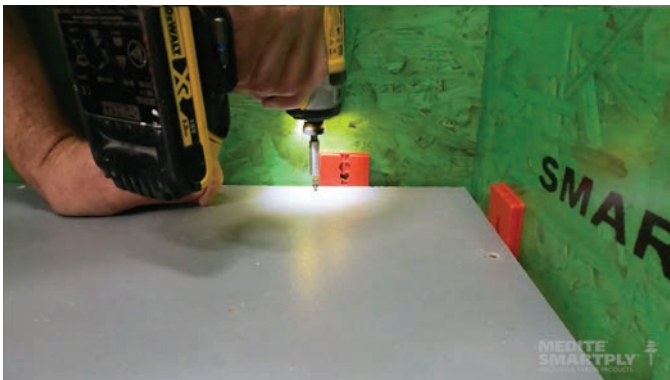
1

- Fix panels to joist as recommended



2

- Fixing 10mm from panel edge



3

- Allow 10mm from any adjoining surfaces



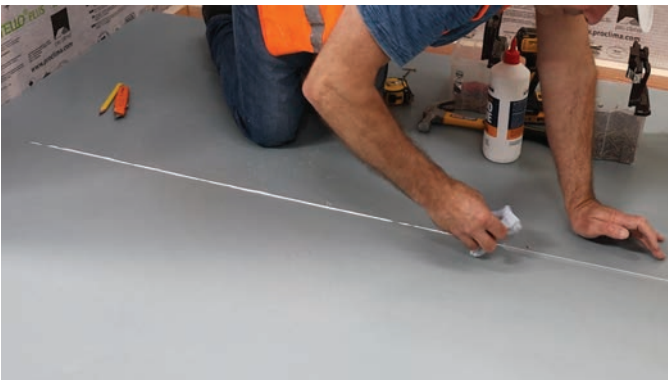
4

- Apply adhesive to T&G joint



5

- Position panels together



6

- Clean excess adhesive



7

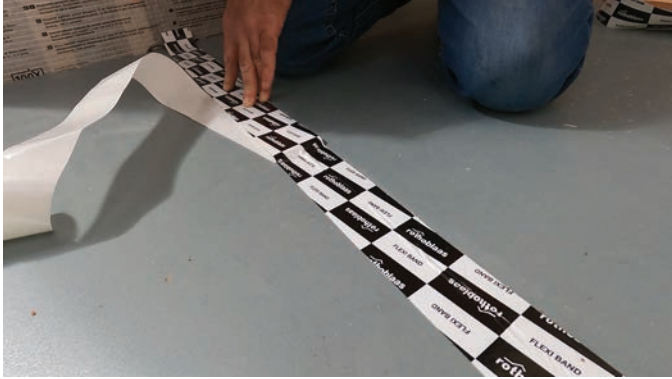
- Ensure surface is clean, dry and free of dust for tape adhesion



8

- Apply 50mm airtight tape

## DETAIL 4 / SMARTPLY PROPASSIV PANEL TO CONCRETE WALL CONNECTION



9

- Ensure fixings are covered for durability



10

- Clean away debris and dust for primer application



11

- Apply primer for adequate tape adhesion



12

- Apply 100mm tape starting with the corner



13

- Apply 100mm airtight tape to length of the joint



14

- Ensure fixings are covered for durability



