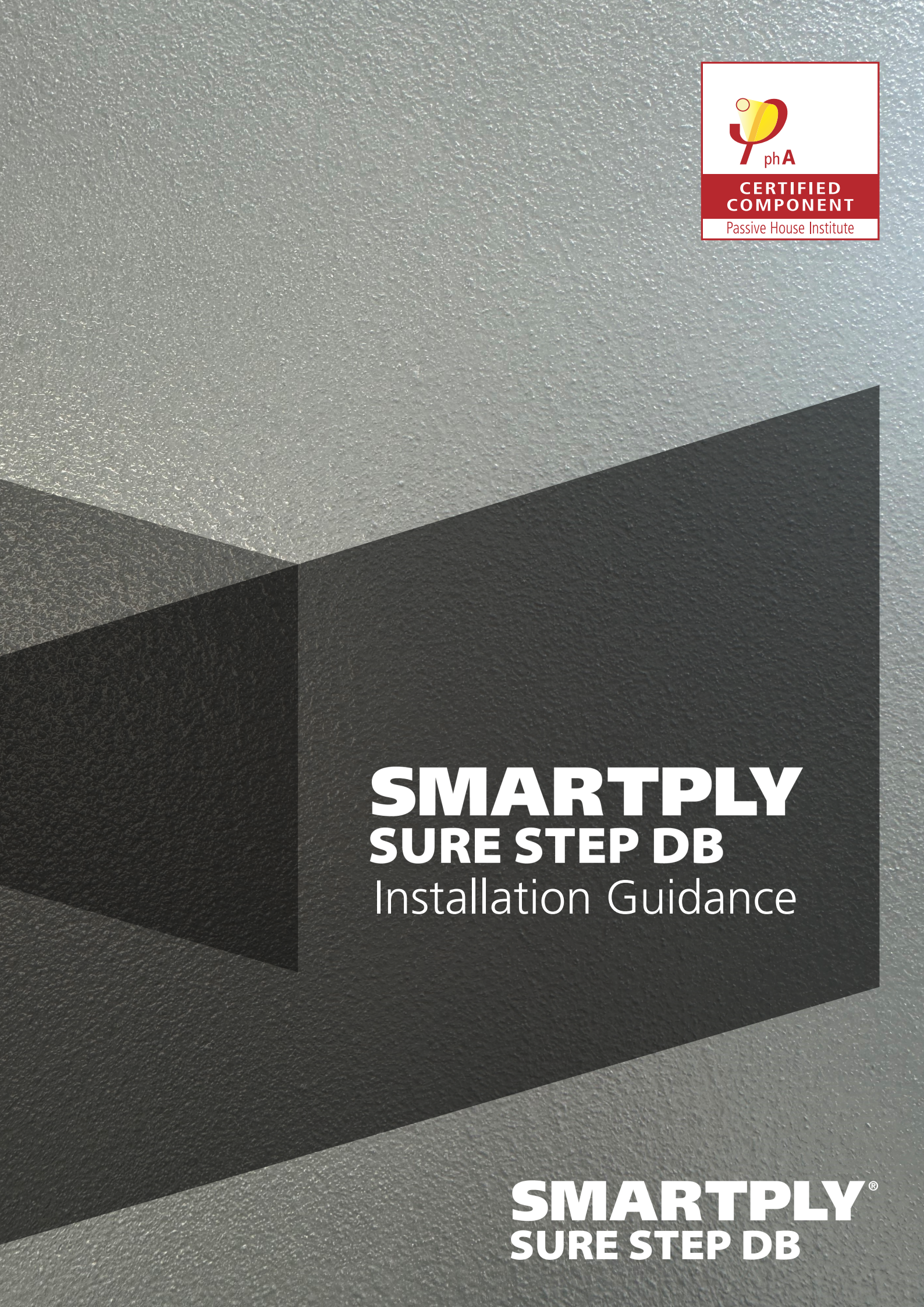

phA
CERTIFIED
COMPONENT
Passive House Institute
SMARTPLY
SURE STEP DB
Installation Guidance
SMARTPLY®
SURE STEP DB

SMARTPLY®
SURE STEP DB

Applications

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 requirement of 40dB for England, Wales and Northern Ireland.

Manufactured in accordance with EN 300 SMARTPLY SURE STEP DB 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 Contiroll® 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 and offsite construction, temporary decking for timber and steel frame.

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.

Features And Benefits

- SMARTPLY SURE STEP DB properties have been independently tested by 3rd party accredited laboratories.
- Airtight panel certified by the Passivhaus Institute.
- SMARTPLY SURE STEP DB can be exposed for up to 45 days without degradation.
- Achieves the 40dB acoustic rating in a flooring system.
- Improved slip resistant panel - safer working conditions.
- High quality, moisture resistant load bearing flooring
- Light weight panels
- 100% solids UV cured specialist coating (no solvents)
- SMARTPLY SURE STEP DB has Tongue and Groove edges – easy to slide into place
- No added formaldehyde
- Manufactured from FSC® certified timber from our own forests –assured supply of sustainable raw material

DISCLAIMER:
For full installation, usage recommendations and guidance please refer to the product datasheet and installation guidelines available on www.MDFOSB.com.
SMARTPLY SURE STEP DB 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.

FSC
www.fsc.org
FSC® C019958
The mark of responsible forestry

DETAIL 1 / SMARTPLY SURE STEP DB PANEL TO PANEL CONNECTION

1

- Cut Panels to required size

2

- Fix panels to joist as recommended

3

- Fixing 10mm from panel edge

4

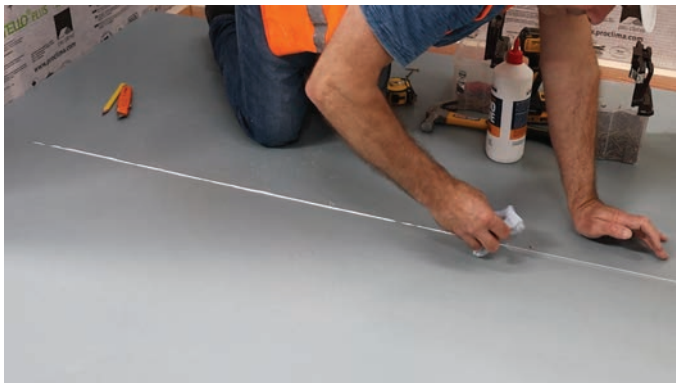
- Allow 10mm from any adjoining surfaces

5

- Apply adhesive to T&G joint

6

- Position panels together



7

- Clean excess adhesive

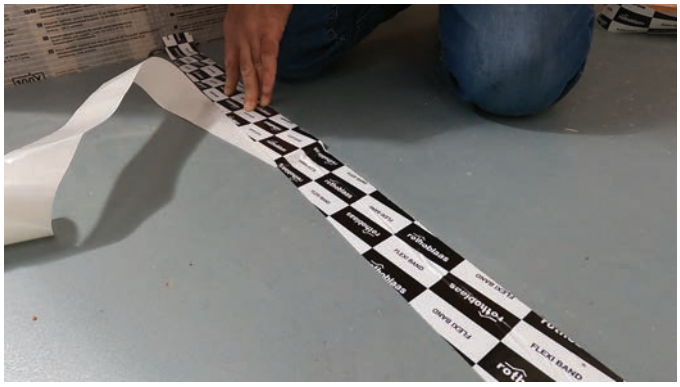
8

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

DETAIL 1 / SMARTPLY AIRTIGHT PANEL TO PANEL CONNECTION

9

- Apply 50mm airtight tape



10

- Ensure fixings are covered for durability

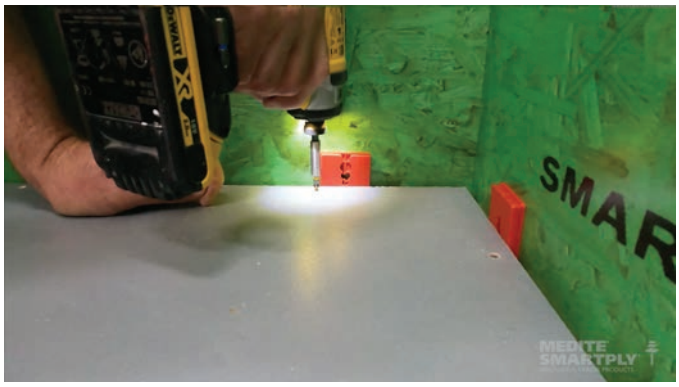
DETAIL 2 / SMARTPLY AIRTIGHT PANEL TO AIRTIGHT WALL CONNECTION

1

- Fix panels to joist as recommended

2

- Fixing 10mm from panel edge



3

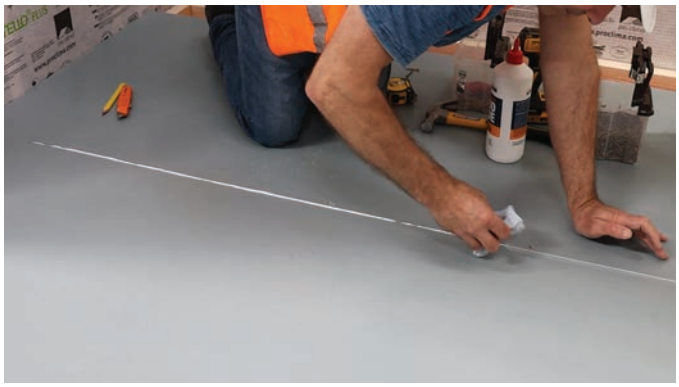
- Allow 10mm from any adjoining surfaces

4

- Apply adhesive to T&G joint

5

- Position panels together



6

- Clean excess adhesive

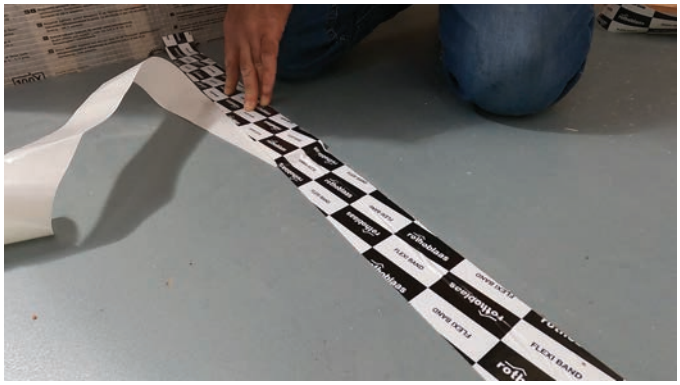
7

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

8

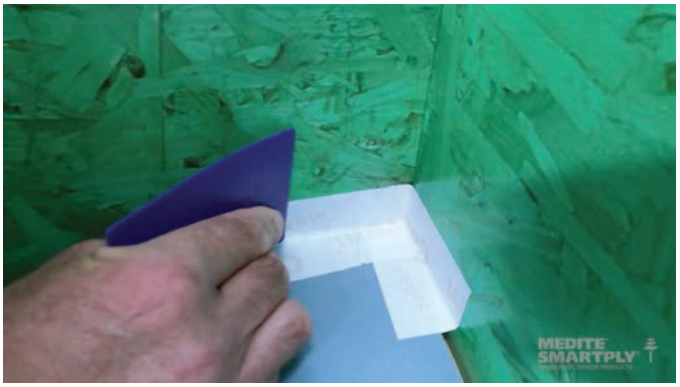
- Apply 50mm airtight tape

DETAIL 2 / SMARTPLY AIRTIGHT 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 lenght of the joint

12

- Ensure fixings are covered for durability

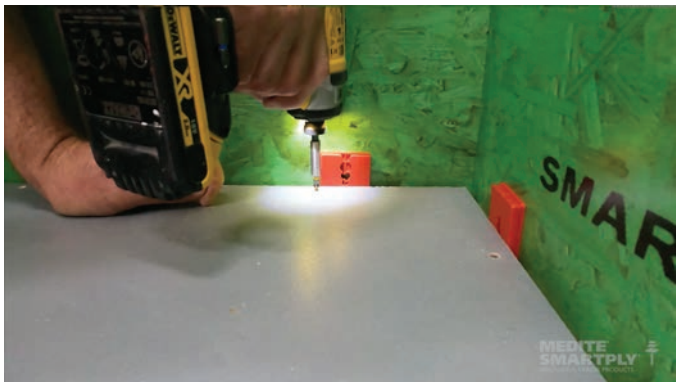
DETAIL 3 / SMARTPLY AIRTIGHT PANEL TO AIRTIGHT MEMBRANE

1

- Fix panels to joist as recommended

2

- Fixing 10mm from panel edge



3

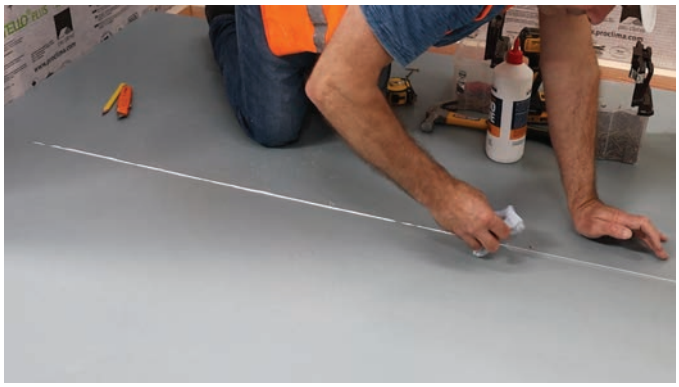
- Allow 10mm from any adjoining surfaces

4

- Apply adhesive to T&G joint

5

- Position panels together



6

- Clean excess adhesive

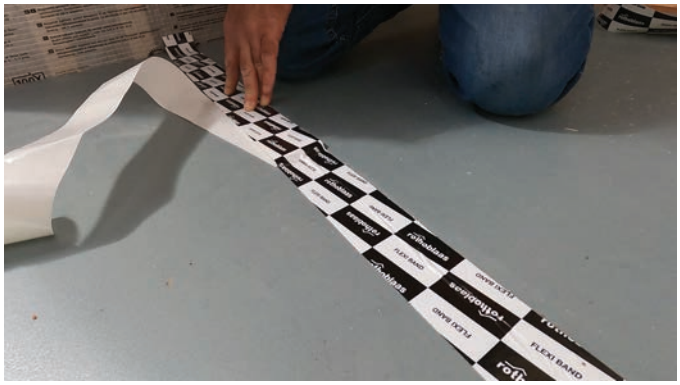
7

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

8

- Apply 50mm airtight tape

DETAIL 3 / SMARTPLY AIRTIGHT PANEL TO AIRTIGHT MEMBRANE

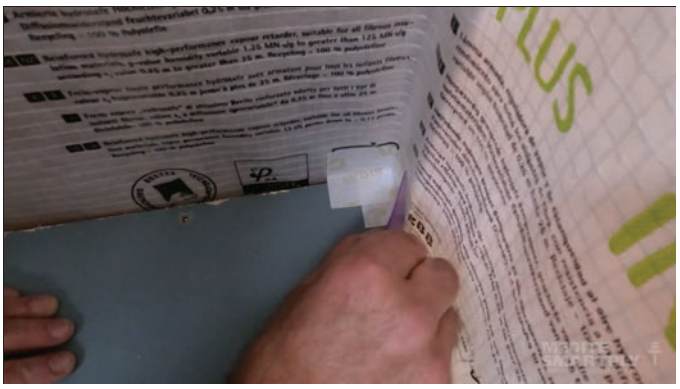


9

- Ensure fixings are covered for durability

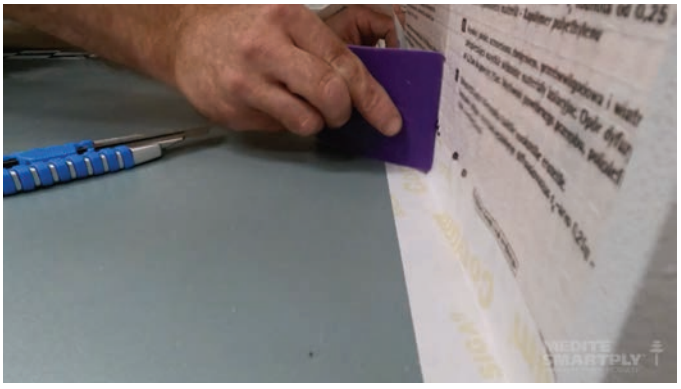
10

- Insert fixings 10mm from edge of board



11

- Apply 60mm tape starting with the corner



12

- Apply 60mm airtight tape to lenght of the joint

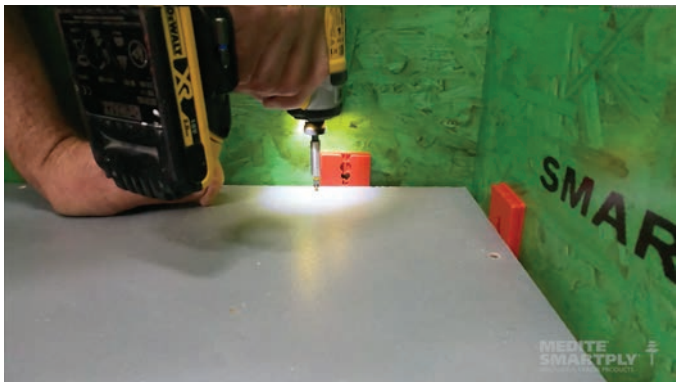
DETAIL 4 / SMARTPLY AIRTIGHT PANEL TO CONCRETE WALL CONNECTION

1

- Fix panels to joist as recommended

2

- Fixing 10mm from panel edge



3

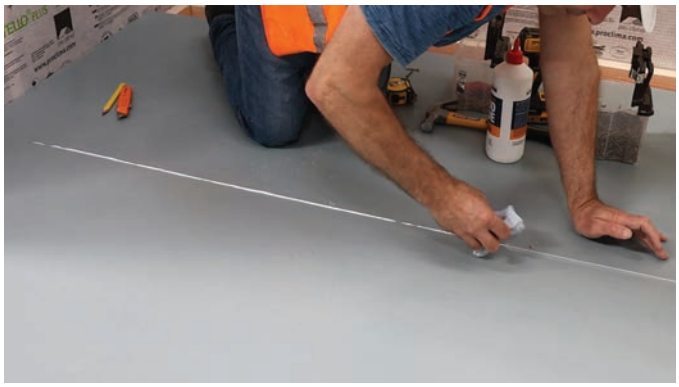
- Allow 10mm from any adjoining surfaces

4

- Apply adhesive to T&G joint

5

- Position panels together



6

- Clean excess adhesive

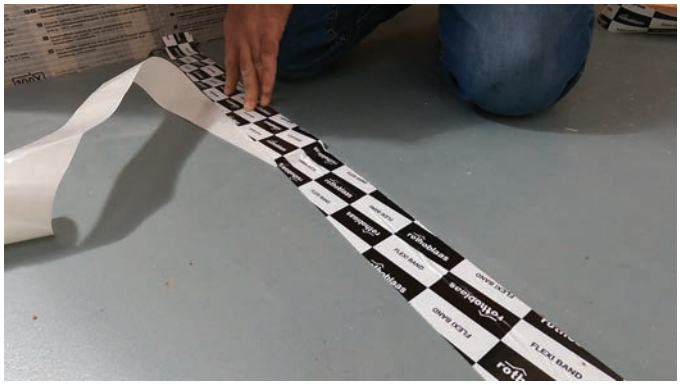
7

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

8

- Apply 50mm airtight tape

DETAIL 4 / SMARTPLY AIRTIGHT 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 lenght of the joint

14

- Ensure fixings are covered for durability