

MEDITE® SMARTPLY®
INNOVATIVE TIMBER PRODUCTS

AIRTIGHTNESS

INSTALLATION GUIDE

SMARTPLY AIRTIGHT

SMARTPLY SURE STEP DB

AIRTIGHTNESS
INSTALLATION GUIDE

Airtightness Overview 3

SMARTPLY SURE STEP DB 4

- Detail 1: SMARTPLY SURE STEP DB Panel to Panel Connection 5
- Detail 2: SMARTPLY SURE STEP DB Panel to SMARTPLY AIRTIGHT Connection 8
- Detail 3: SMARTPLY SURE STEP DB Panel to Airtight Membrane 9
- Detail 4: SMARTPLY SURE STEP DB Panel to Concrete Wall Connection 10

SMARTPLY AIRTIGHT 12

- Detail 1: SMARTPLY AIRTIGHT Panel to Panel Connection 13
- Detail 2: SMARTPLY AIRTIGHT Panel to Panel Corner Connection Meeting SMARTPLY MAX OSB/3 15
- Detail 3: SMARTPLY AIRTIGHT Panel to Panel External Corner and Window Reveal Connection 17
- Detail 4: SMARTPLY AIRTIGHT Panel to Window Connection 21
- Detail 5: SMARTPLY AIRTIGHT Panel to SMARTPLY MAX OSB/3 24
- Detail 6: SMARTPLY AIRTIGHT Panel to Concrete Floor 25
- Detail 6.1: SMARTPLY AIRTIGHT Panel to Concrete Floor - Stress Relief Loop Installation 27
- Detail 7: SMARTPLY AIRTIGHT Panel to Plastered Masonry Wall 28
- Detail 7.1: SMARTPLY AIRTIGHT Panel to Plastered Masonry Wall - Stress Relief Loop Installation 30

Appendix - Tape Specifications 32

AIRTIGHTNESS

The background of MMC and the challenges of airtightness, air quality, and moisture control highlight the intricate balance the construction industry must achieve between building science and build-ability.

Delivering airtightness in low energy buildings is a major challenge for modern construction. As standards become more demanding, builders and specifiers need solutions that support airtightness, moisture control and healthy indoor environments, while still fitting the speed and precision of MMC and offsite manufacture.



ENGINEERED SOLUTIONS FOR PERFORMANCE

The Perfect Passive House Team

SMARTPLY AIRTIGHT supports high-performance airtight building envelopes, reducing uncontrolled air leakage in timber frame and offsite wall systems. SMARTPLY SURE STEP DB adds structural and acoustic performance, helping deliver flooring systems that are efficient, comfortable, and built for long-term performance.

Integrated Technology

Our airtight products use advanced resin technology to create a high-performance, no-added-formaldehyde panel that forms a superior bond with the wood strands through direct reaction. The integrated vapour control layer and air barrier remove the need for additional AVCL membranes, while the smooth, durable coating ensures excellent adhesion for airtight tapes at panel joints.

Installation Efficiency

SMARTPLY airtight products are OSB/3 grade panels and should be installed by the recommendations provided in the specific product technical datasheets. AIRTIGHT contains a smooth durable surface for superior bonding of airtight tape at panel joints, and SURE STEP DB has an innovative slip-resistant coating, perfect for large scale timber frame projects.



© Citu Homes - Project in Leeds, UK, for 200 homes built to Passivhaus principles

SMARTPLY®
SURE STEP DB

SMARTPLY SURE STEP DB is a high-performance OSB/3 flooring panel with an integrated vapour control layer and reduced-slip surface coating. Developed for modern timber frame construction, it combines structural strength, improved site safety and enhanced acoustic performance.



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.

Features & 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

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.

SMARTPLY SURE STEP DB can be used as part of the airtight layer of a construction project if installed. 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.

SMARTPLY®
DEFINING THE STANDARD OF OSB

DETAIL 1
PANEL TO PANEL CONNECTION

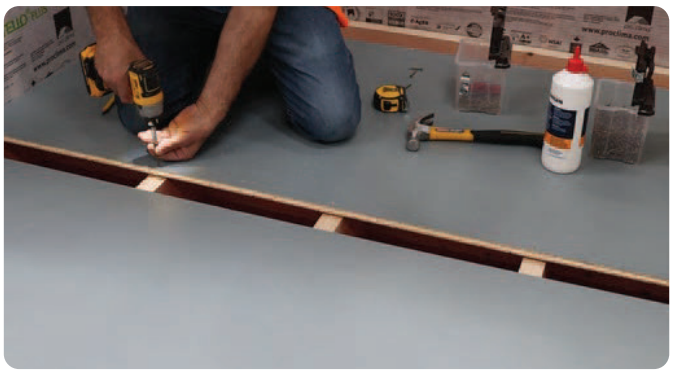
1 Cut Panels to required size.



2 Fix panels to joist as recommended.



3 Fixing 10mm from panel edge.



4 Allow 10mm from any adjoining surfaces.



DETAIL 1
PANEL TO PANEL CONNECTION

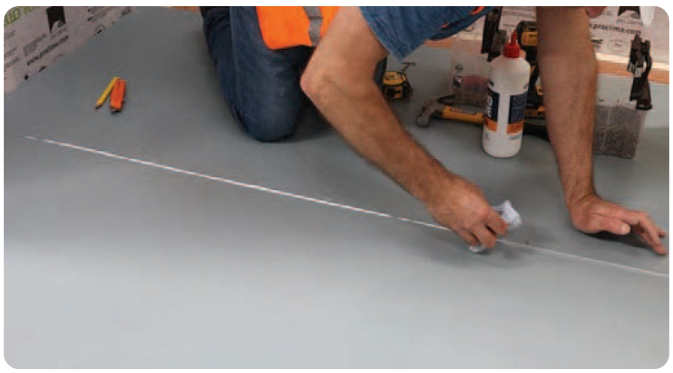
5 Apply wood adhesive to T&G joint.



6 Position panels together.



7 Clean excess adhesive and fix second panel.



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

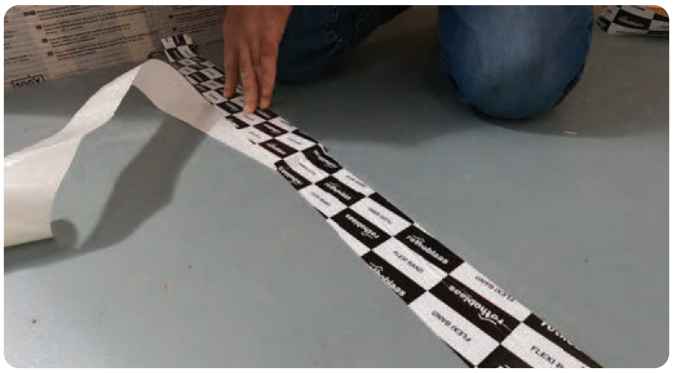


DETAIL 1
PANEL TO PANEL CONNECTION

9 50mm airtightness tape to be applied equally to both panels (please see Appendix 1 – Tape Specification 1 for suitable tape to be used for this application).



10 Ensure fixings are covered for durability.



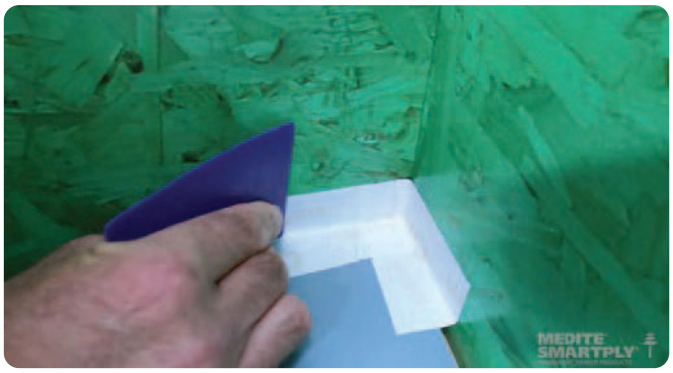
DETAIL 2
PANEL TO SMARTPLY AIRTIGHT CONNECTION

1 Fix panels to joist as recommended.

Follow full installation steps 2-10 shown in Detail 1.



2 Apply 60mm airtight tape to corner (see Appendix 1 Tape Specification 2 for suitable tape to be used for this application). See AIRTIGHT Detail 2 for additional information for corners.



3 Apply 60mm airtight tape to length of the joint (see Appendix 1 Tape Specification 2 for suitable tape to be used for this application).



4 Ensure fixings are covered for durability.



DETAIL 3
PANEL TO AIRTIGHT MEMBRANE

1 Fix panels to joist as recommended.

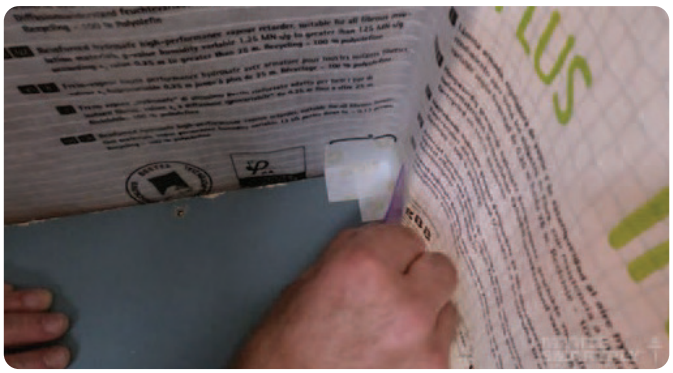
Follow full installation steps 2-10 shown in Detail 1.



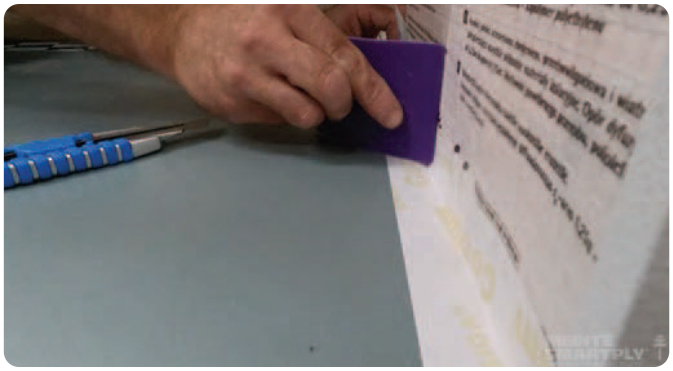
2 Insert fixings 10mm from edge of board.



3 Apply 60mm tape starting with the corner (see Appendix 1 Tape Specification 2 for suitable tape to be used for this application). See AIRTIGHT Detail 2 for additional information for corners.



4 Apply 60mm airtight tape to length of the joint (see Appendix 1 Tape Specification 2 for suitable tape to be used for this application).



DETAIL 4
PANEL TO CONCRETE WALL

1 Fix panels to joist as recommended.

Follow full installation steps 2-10 shown in Detail 1.



2 Clean away debris and dust from the concrete surface for primer application.



3 Apply the concrete primer for adequate tape adhesion as per the chosen tape manufacturer's guidelines.



4 Using Appendix 1 Tape Specification 5, apply 100mm tape starting with the corner.



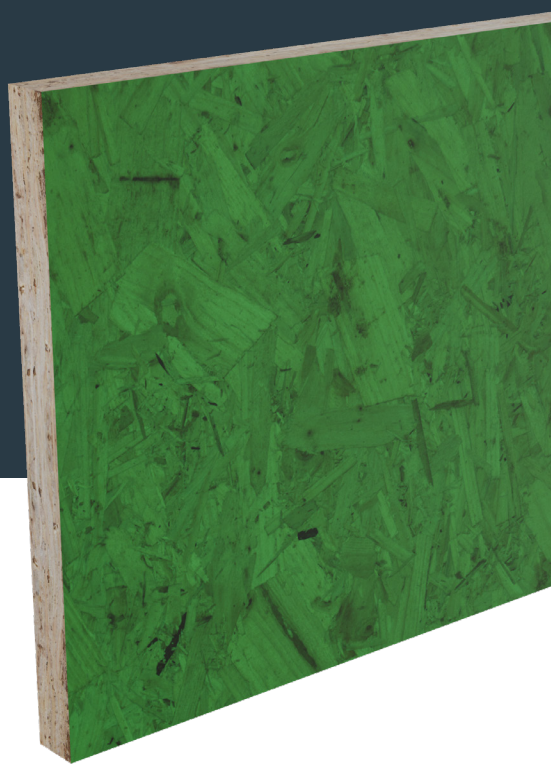
DETAIL 4
PANEL TO CONCRETE WALL

5 Using Appendix 1 Tape Specification 5, apply 100mm airtight tape to length of the joint



SMARTPLY® AIRTIGHT

SMARTPLY AIRTIGHT is a structural OSB/3 panel with an integrated vapour control layer, developed to support airtight construction. Designed for timber frame and offsite systems, it helps reduce air leakage while maintaining reliable structural performance.



As building regulations continue to prioritise energy efficiency, airtightness has become a critical factor in modern construction. Uncontrolled air leakage through the building envelope can significantly reduce thermal performance, leading to increased energy use and reduced occupant comfort.

Creating a well-designed airtight layer helps control the movement of air through walls, roofs and floors, allowing ventilation systems to operate as intended and improving overall building performance.

SMARTPLY AIRTIGHT is developed to support this approach. When installed as part of a properly detailed building envelope, the panel can contribute to an effective airtight layer while maintaining the structural strength required in timber frame and offsite construction systems.

Features & Benefits

- Airtightness engineered into OSB substrate with specialist surfacing technology providing integrated vapour barrier - no need for additional AVCL membranes
- Consistently high vapour resistance - prevents interstitial condensation within the timber frame structure
- Rigid panel - less susceptible to damage than flexible membranes
- Durable smooth surface - excellent for airtight tape adhesion
- High racking strength - suitable for structural use (Category 1 to BS 5268)
- No added formaldehyde - contributing to healthier environments
- Hygroscopic wood panel - helps prevent condensation in limited cases of reverse diffusion
- Manufactured from FSC® certified timber from our own forests - assured supply of sustainable raw material

Explanatory Notes

- The most important feature is that the SMARTPLY AIRTIGHT is certified airtight; followed by integrated vapour control layer (industry terminology); followed by structural performance.
- Insulation removed in these details for clarity. Also screws shown for demo purposes only. A demo wall model was used for photographing the details.
- All tapes used for the purpose of this installation instructions manual are generic and unbranded - user to select preferred tape system following specification guidelines in Appendix 1.
- SMARTPLY would like to acknowledge the assistance of Passive House Academy 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.

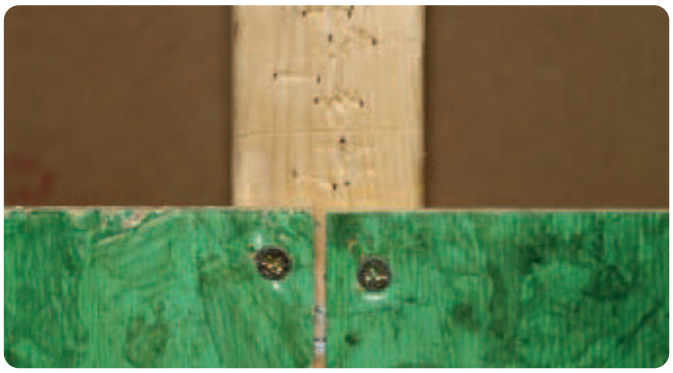
SMARTPLY AIRTIGHT can be used as part of the airtight layer of a construction project if installed. As part of a system, it is the responsibility of the specifier or contractor to ensure that 3rd party material (membranes, tapes, primer...) are suitable for the application and installed as recommended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

SMARTPLY®
DEFINING THE STANDARD OF OSB

DETAIL 1
PANEL TO PANEL CONNECTION

1 Panel junctions to be aligned centrally on timber stud framing.

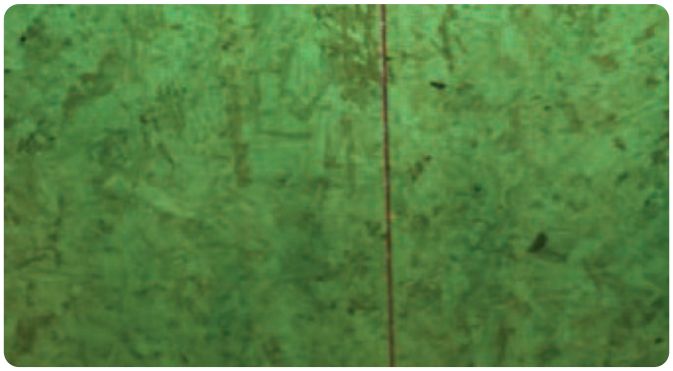
Fixings to be inserted ≥ 10mm from panel edge.



2 3mm expansion joint to be left between all panel-to-panel connections.



3 Equal gap maintained for full length of vertical connection



4 Same 3mm gap details required for horizontal panel to panel connections also.

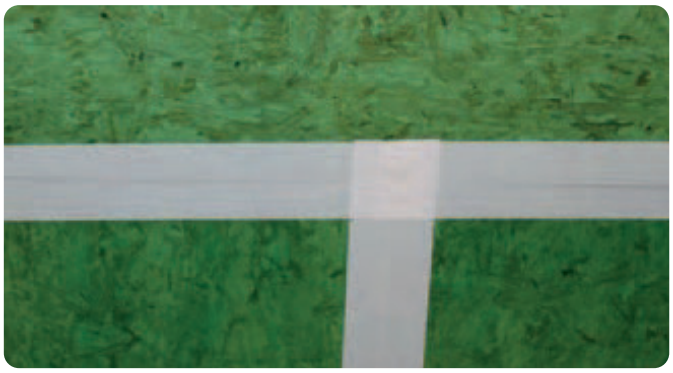


DETAIL 1
PANEL TO PANEL CONNECTION

5 60mm wide airtightness tape to be applied equally to both panels (please see Appendix 1 – Tape Specification 1 for suitable tape to be used for this application)

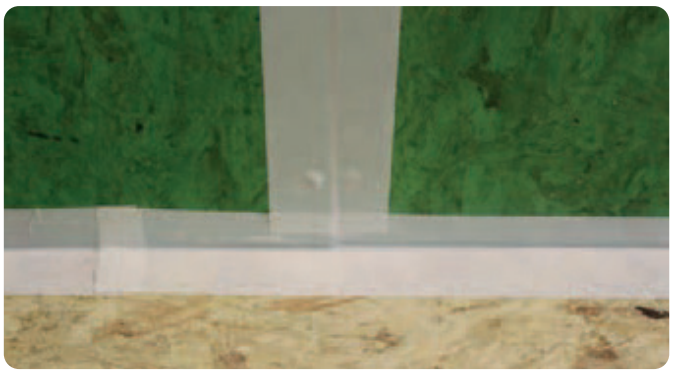


6 Horizontal and vertical tape applications to fully overlap each other.



7 Tape sealing to be continuous around all panel edges and to connect with floor taping detail.

Refer to the relevant floor connection detail in this guide for taping details.



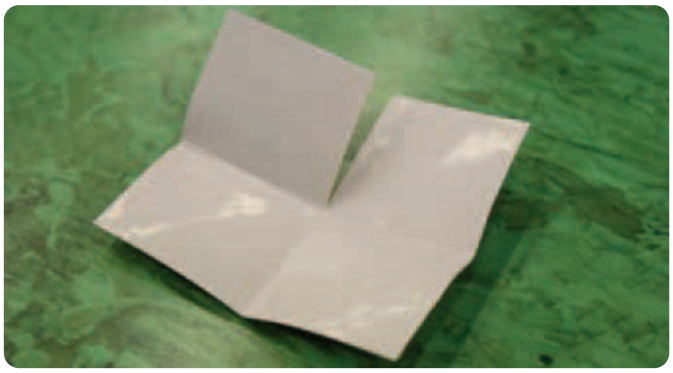
DETAIL 2

PANEL TO PANEL CORNER CONNECTION MEETING SMARTPLY MAX / SURE STEP DB FLOOR PANELS

1 Install wall and floor panels as recommended, leaving expansion gaps at joints and connections.



2 Create the 3-way corner tape first by folding and cutting tape as shown here (please see Appendix 1 – Tape Specification 2 for suitable tape to be used for this application).



3 Remove one quarter of the backing tape and form the corner tape, ready for application with backing tape still in place on 3 remaining exposed sides.



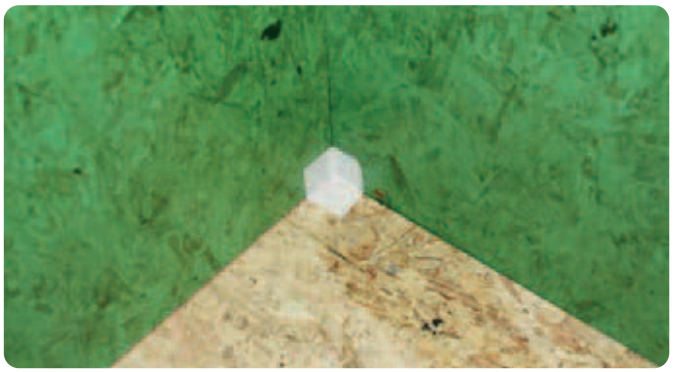
4 Remove remaining backing paper and carefully apply pre-formed piece into 3-way corner avoiding tension on the tape corners by pinching backing edges before application



DETAIL 2

PANEL TO PANEL CORNER CONNECTION MEETING SMARTPLY MAX OSB/3

5 Once the corner piece is in place the other 2-way corners can be sealed using the half split tape again (Appendix 1 – Tape Specification 2)



6 Remove backing tape from half of tape and carefully apply tape into corner.

Once in place remove second strip and seal to second panel with crisp 90° corner, again avoiding tension on the tape in the corner.



7 Repeat detail at wall to floor corner junctions.

Please follow tape manufacturer's instructions in deciding whether the floor panel needs to be primed before tape application.



8 Complete the 3-way corner detail ensuring full overlap of tape (to manufacturer's guidelines) at all tape connections.

Please note, some tape manufacturers recommend the use of a wider tape (circa.150mm) for wall to floor junctions for ease of application. Please follow selected manufacturer's guidelines.



DETAIL 3

PANEL TO PANEL EXTERNAL CORNER AND WINDOW REVEAL CONNECTION

1 External corner detail (window reveal).

Internal face of wall studs and all window reveals lined with panels to create airtight layer.



2 Straight wall panel to panel connection must also be sealed as before (in Detail 1).



3 Straight panel to panel connection sealed using tape in Appendix 1 – Tape Specification 1 as before (in Detail 1).



4 Appendix 1 – Tape Specification 2 used for 3-way external corner.

Take a square piece of tape and fold in half.

Slice tape to midpoint and apply as seen here.



DETAIL 3
PANEL TO PANEL EXTERNAL CORNER AND WINDOW REVEAL CONNECTION

5 Having completed step 4 this is what the junction will look like.



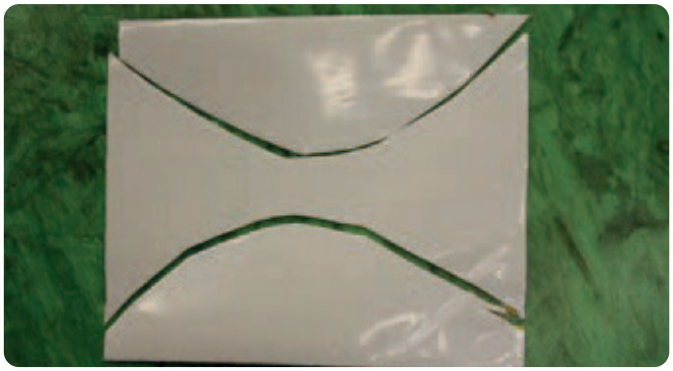
6 Repeat step 4 applying the tape in the opposite direction as seen here.

There is still a small risk or pin sized leak at the outer most edge of the reveal corner even when a corner tape is applied into the reveal.



7 Using a square piece of tape, create a bow-tie shaped piece of tape as seen here.

Please use Appendix 1 – Tape Specification 3 for this piece.

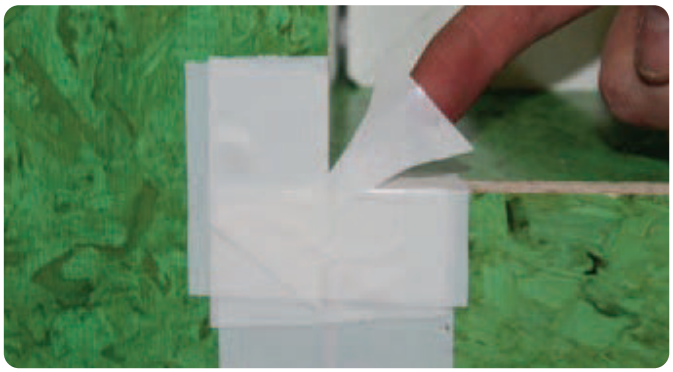


8 Discard the waste pieces leaving just the bowtie piece.



DETAIL 3
PANEL TO PANEL EXTERNAL CORNER AND WINDOW REVEAL CONNECTION

9 Apply bow-tie piece onto wall panel first as seen here.



10 Stretch the bow-tie piece into the reveal and press firmly into corner sealing the junction fully and creating a crisp, sealed junction.



11 3-way external corner is now fully sealed and 2-way external sill corners can now be sealed using Appendix 1 – Tape Specification 2.

Ensure full overlap of tape connections to manufacturer's guidelines.



12 Finally, the side-reveal can be sealed using same method as sill connection.



DETAIL 3

PANEL TO PANEL EXTERNAL CORNER AND WINDOW REVEAL CONNECTION

13 When complete the external corner detail should look like this.



DETAIL 4
PANEL TO WINDOW CONNECTION

1 Having sealed the reveals next it is important to seal from the reveal to the window face.

Fixed glass non Passive House suitable double glazed PVC window used in this instructions manual by way of demonstration only.



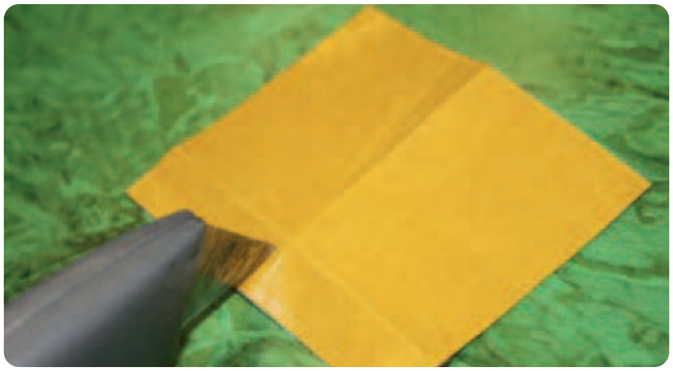
2 Start with the 3-way window to reveal corners.

Cut out a square piece of Appendix 1 – Tape Specification 4.

Fold backing paper along the 12mm serration and fold tape in half in other plane as seen here.

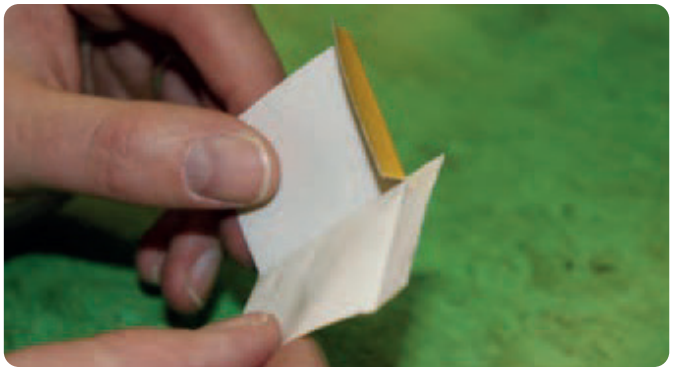


3 Cut the tape along the half split to the 12mm serration.



4 Fold as seen here to form a corner with 12mm exposure on the window side.

Carefully pinch back corners to form crisp edges with backing paper still in place.



DETAIL 4
PANEL TO WINDOW CONNECTION

5 The 3-way window corner piece should look like this ready for application with backing paper still in place at this point.



6 Carefully remove backing paper from 12mm edges and seal to face of window.

Subsequently remove remaining backing paper and seal to reveal lining panels with tension-free crisp edges



7 The 12mm edges sealed to the window will later be hidden using reveal lining plasterboard or alternative internal finish.



8 Still using Appendix 1 – Tape Specification 4, fully seal the perimeter of the window to reveal connection.

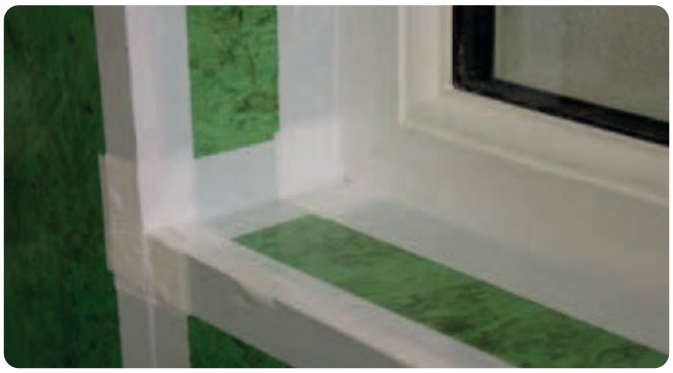
Using strips, take off the 12mm backing paper and carefully seal to window face.

Then remove 48mm backing paper and seal back to reveal Panel.



DETAIL 4
PANEL TO WINDOW CONNECTION

9 Repeat the sill detail on the side and top reveals to fully air seal the window perimeter.



10 When taping is complete, the window airtightness junction should look like this.



DETAIL 5
PANEL TO SMARTPLY MAX OSB/3

1

Panels junctions to be aligned centrally on timber stud framing.

Screws to be inserted ≥ 10mm from panel edge.

3mm expansion joint to be left between all panel-to-panel connections.

Equal gap maintained for full length of connections.



2

60mm wide airtightness tape to be applied equally to both panels (please see Appendix 1 – Tape Specification 1 for suitable tape to be used for this application).

Please follow tape manufacturer's instructions in deciding whether the OSB/3 needs to be primed before tape application.

SMARTPLY AIRTIGHT does not require a primer.



DETAIL 6
PANEL TO CONCRETE FLOOR

1 Install SMARTPLY AIRTIGHT wall panels leaving 3mm expansion gap as before at all joints.

Floor airtightness created by the concrete.



2 Ensure the concrete floor is clean and dry and free from dust.

Apply the concrete primer with a brush or roller as per chosen tape manufacturer's guidelines.



3 Ensure primer is applied fully and consistently along concrete perimeter at wall connection.

Allow primer to set as per manufacturer's guidelines before tape application.



4 Seal connection using Appendix 1 – Tape Specification 2.

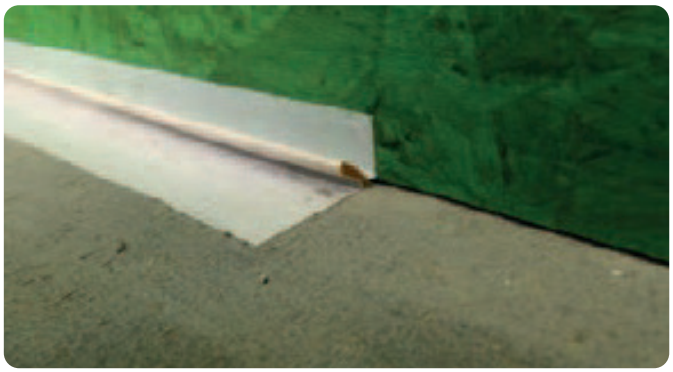
Remove backing tape from section 1 of tape and carefully apply tape into corner on floor.

Once in place, remove backing strip 3 and seal to Panel with stress relief loop incorporated, avoiding tension on the tape in the corner



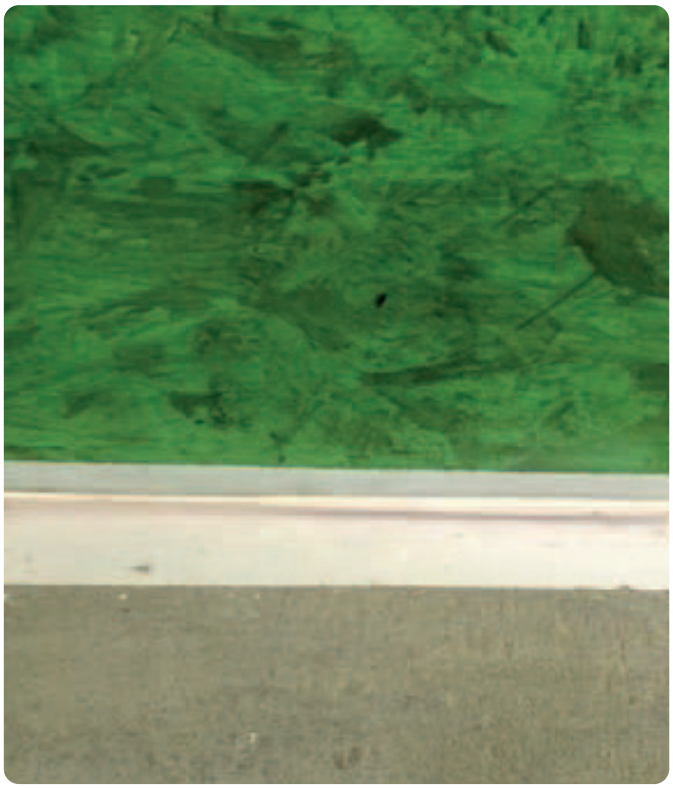
DETAIL 6
PANEL TO CONCRETE FLOOR

5 Please see further guidelines for creation of this stress relief loop detail in Detail 6.1 below.



6 Complete the corner detail for full floor perimeter ensuring full overlap of tape (to manufacturer's guidelines) at all tape connections.

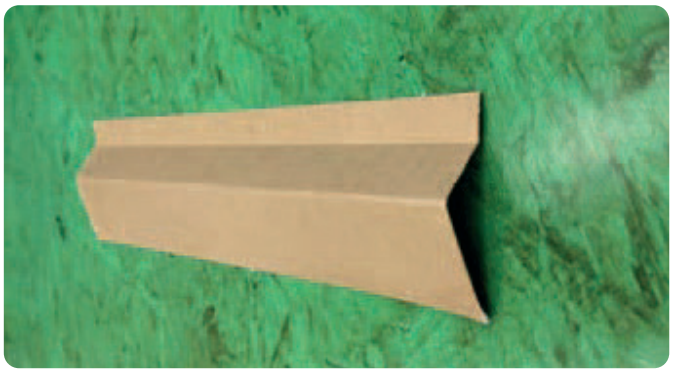
Please note, some tape manufacturers recommend the use of a wider tape (circa.150mm) for wall to floor junctions for ease of application. Please follow selected manufacturer's guidelines.



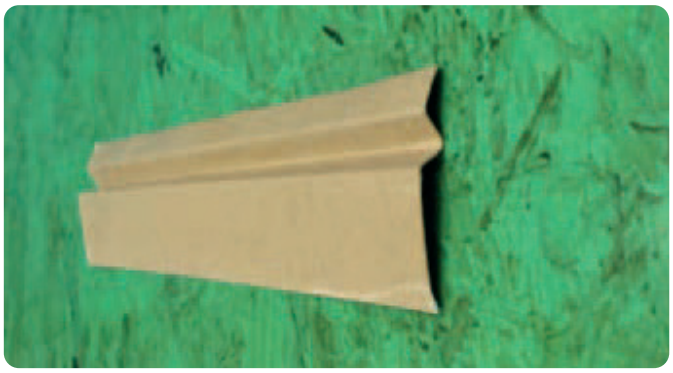
DETAIL 6.1
PANEL TO CONCRETE FLOOR - STRESS RELIEF LOOP INSTALLATION

1 Creating a stress relief loop using Appendix 1 – Tape Specification 2 for junctions with varying substrates where differential movement is a risk.

The selected tape has three backing strips.



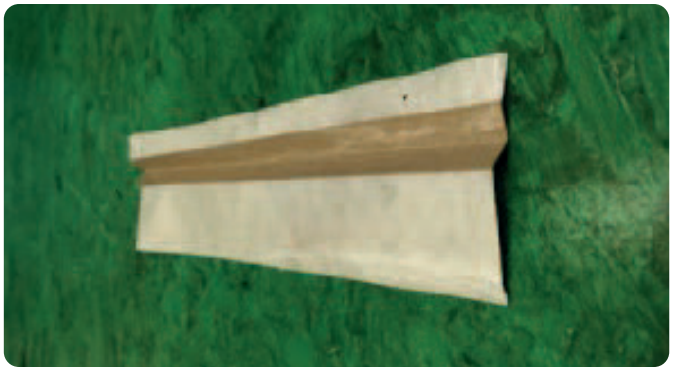
2 Pre-fold tape on the centre strip before removing any backing papers to prepare for installation at junction.



3 Fold tape creating the shape that it will be installed in, a 90° corner with additional tape loop fold at the junction interface. Strip 1 and 3 of the tape will be sealed to the substrates whilst backing strip 2 (middle) will remain in place.



4 When junction is ready for tape application, as above, strip 1 can be removed and sealed to primed concrete floor and subsequently strip 3 can be removed and sealed to SMARTPLY AIRTIGHT panel. Strip 2 forms the stress relief loop.



DETAIL 7
PANEL TO PLASTERED MASONRY WALL

1 SMARTPLY AIRTIGHT panel will create the airtight layer on the right-hand wall.

Wet applied sand/cement plaster will create the airtight layer of the left-hand wall.

Install panel allowing expansion gap as before.



2 Using Appendix 1 – Tape Specification 5 remove the backing paper off the shorter side and bond to edge of SMARTPLY AIRTIGHT panel.

Ensure to create a stress relief loop at this junction to avoid deterioration of seal with differential movement.



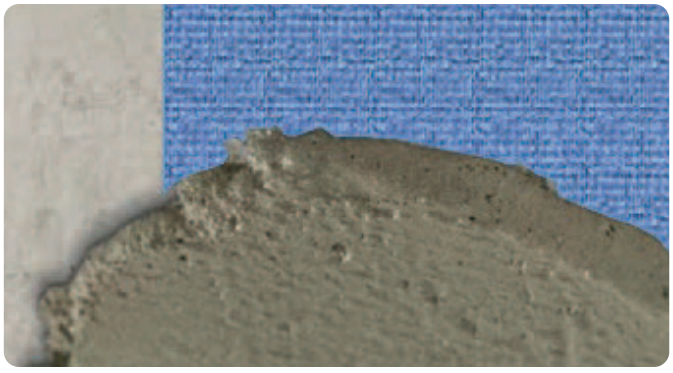
3 Remove the backing paper from the shorter side (strip 1) and bond to edge of SMARTPLY AIRTIGHT. Remove the backing paper off the longer side (strip 3) and bond to masonry wall, using a plastic roller to press firmly onto substrate. Strip 2 (middle) remains in place and forms the stress relief loop.

Please see further guidelines for creation of this stress relief loop detail in Detail 7.1.



4 Fleece tape backing can then be plastered over to create a permanent airtight seal.

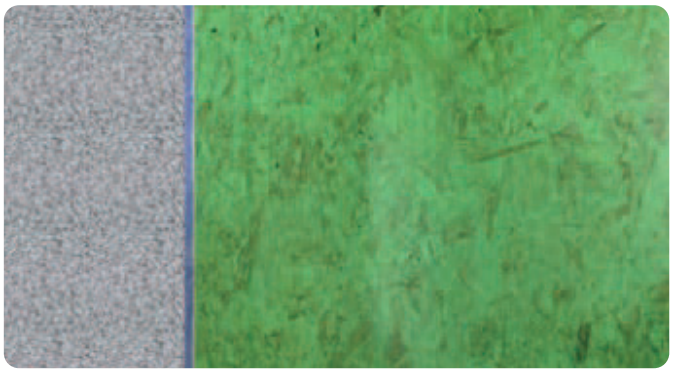
Tape surface lends the required mechanical strength to prevent stresses and strains on the plaster which could otherwise cause cracking in future.



DETAIL 7
PANEL TO PLASTERED MASONRY WALL

5 Complete plastering of full masonry wall surface to ensure airtightness across surface.

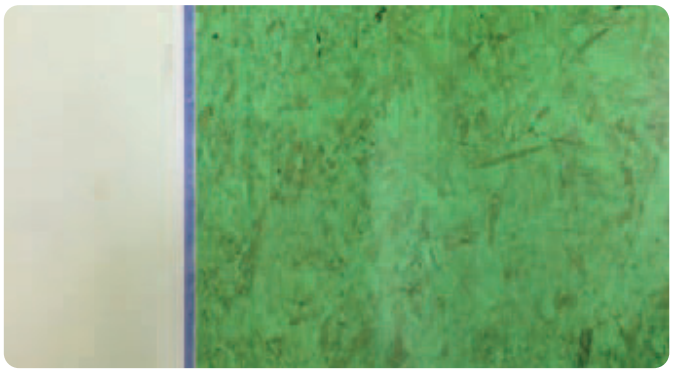
Plasterer needs to be careful not to damage the tape with the trowel during installation.



6 Plaster can then be painted with undercoat and readied for final decoration.

Service cavity with plasterboard finish can be applied to inside of SMARTPLY AIRTIGHT panel to hide the protruding tape and achieve a consistent aesthetic finish on both walls.

Please note, there are many tape variations on the market suitable for plastered airtight connections, so it is very important to follow the guidelines of the selected tape manufacturer when sealing masonry to SMARTPLY AIRTIGHT panel connections

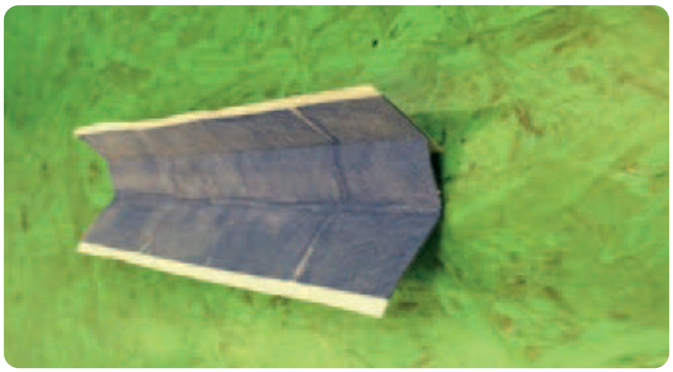


DETAIL 7.1

PANEL TO PLASTERED MASONRY WALL - STRESS RELIEF LOOP INSTALLATION

1 Creating a Stress relief Loop using Appendix 1 – Tape Specification 5 for junctions with varying substrates where differential movement is a risk.

The selected tape has three backing strips or can be folded to create a third strip if required.



2 Pre-fold tape on the centre strip before removing any backing papers to prepare for installation at junction.



3 Fold tape creating the shape that it will be installed in, a 90° corner with additional tape loop fold at the junction interface. Strip 1 and 3 of the tape will be sealed to the substrates whilst backing strip 2 (middle) will remain in place.

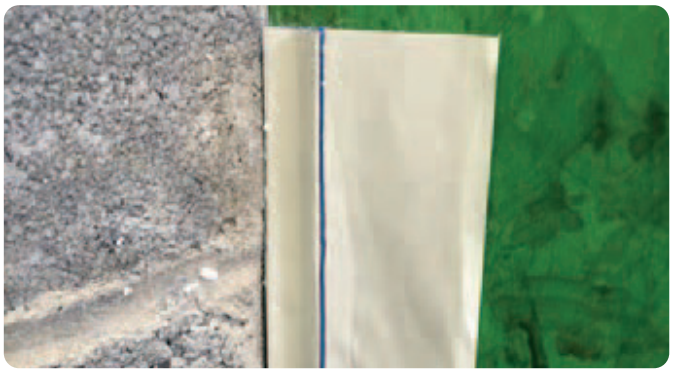


4 When junction is ready for tape application, as above, strip 1 can be removed and sealed to the SMARTPLY AIRTIGHT panel.

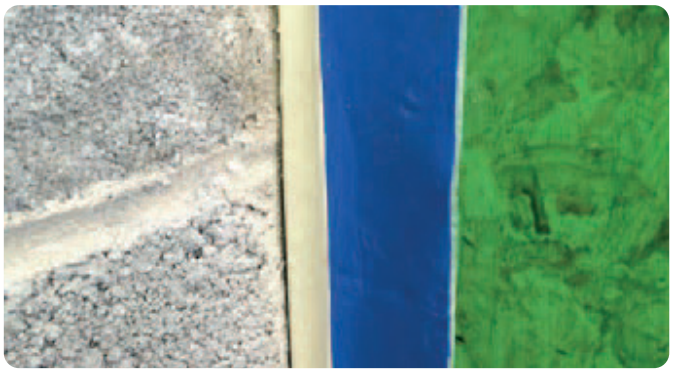


DETAIL 7.1
PANEL TO PLASTERED MASONRY WALL - STRESS RELIEF LOOP INSTALLATION

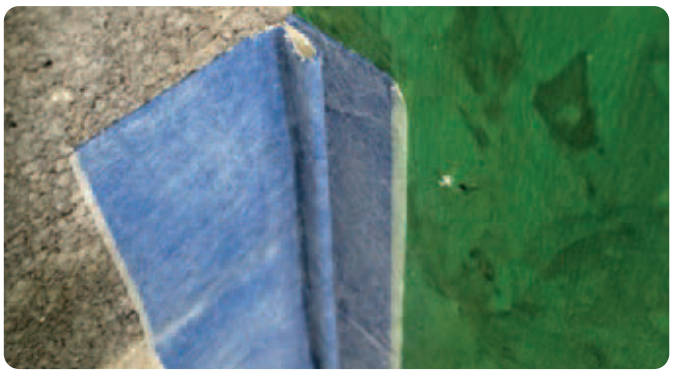
5 At this stage, strip 2 and 3 are still in place for ease of application.



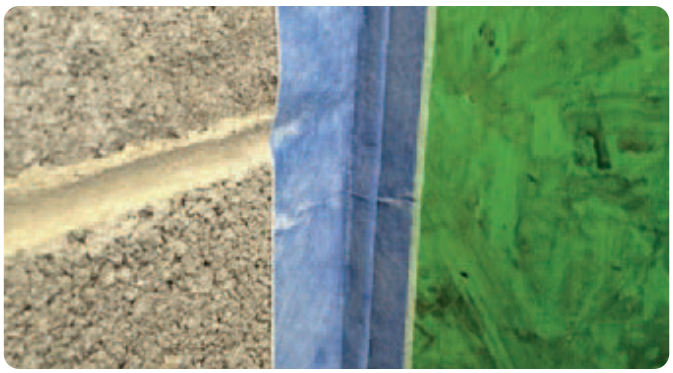
6 Now strip 3 can be removed in preparation for sealing to the masonry wall. Backing Strip 2 will later form the stress relief loop and hence should remain in place.



7 Strip 3 can now be sealed to masonry wall and bonded using a plastic roller to press firmly onto substrate. Strip 2 forms the stress relief loop as can be seen here.



8 Complete the corner detail for full length of the junction ensuring full overlap of tape (to manufacturer's guidelines) at all tape connections.



APPENDIX - TAPE SPECIFICATION 1

Product Description

60mm wide airtightness tape with single backing paper suitable for butt joint junctions.

		Standards	Units	Values
Dimensions	width		m	0.06
Temperature Resistance			°C	-40°C to +100°C
Processing Temperature			°C	From -10°C
Diffusion-equivalent air layer thickness s_d		EN 1931	m	≈ 8
Airtightness: Joint permeability coefficient Linear reference air permeability	a-value Q_{1000}-value	EN 12114	m^3/(hmdaPA2/3) m^3/(mh)	< 0.1 ≤ 0.25
Ageing resistance	High permanent adhesive strength, non-drying and non-embrittling without caoutchouc, resin or solvent, can reliably and durably follow structural movements			
Suitability for storage	Unlimited			

Sample products for this application type:

- SIGA Sicrall
- Isocell Airstop Adhesive Tape
- Pro Clima Tescon Vana
- Ampack Ampacoll INT
- Isover Vario KB1
- Alpha Pro
- Rothoblaas Flexi Band or Speedy Band or Smart Band
- Or other equivalent and proven age tested airtightness tape

APPENDIX - TAPE SPECIFICATION 2

Product Description

60mm wide airtightness tape with half/half split backing paper suitable for corner junctions wide airtightness tape with single backing paper suitable for butt joint junctions.

		Standards	Units	Values
Dimensions	width		m	0.06
Temperature Resistance			°C	-40°C to +100°C
Processing Temperature			°C	From -10°C
Diffusion-equivalent air layer thickness s_d		EN 1931	m	≈ 8
Airtightness: Joint permeability coefficient Linear reference air permeability	a-value Q_{1000}-value	EN 12114	$m^3/(hmdaPA2/3)$ $m^3/(mh)$	< 0.1 ≤ 0.25
Ageing resistance	High permanent adhesive strength, non-drying and non-embrittling without caoutchouc, resin or solvent, can reliably and durably follow structural movements			
Suitability for storage	Unlimited			

Sample products for this application type:

- SIGA Corvum 30/30
- Isocell Airstop Corner Tape
- Pro Clima Tescon Profil
- Ampack Ampacoll XT 60 (Double Slit)
- Isover Vario Multitape SL
- Alpha Flex Split
- Rothoblaas Seal Band or Smart Band
- Or other equivalent and proven age tested airtightness tape

APPENDIX - TAPE SPECIFICATION 3

Product Description

60mm wide airtightness tape with single backing paper suitable for junctions with high elasticity and flexibility requirements.

		Standards	Units	Values
Dimensions	width		m	0.06
Temperature Resistance			°C	-40°C to +100°C
Processing Temperature			°C	From -10°C
Diffusion-equivalent air layer thickness s_d		EN 1931	m	≈ 40
Airtightness: Joint permeability coefficient Linear reference air permeability	a-value Q_{1000}-value	EN 12114	m^3/(hmdaPA2/3) m^3/(mh)	< 0.1 ≤ 0.25
Ageing resistance	High permanent adhesive strength, non-drying and non-embrittling without caoutchouc, resin or solvent, can reliably and durably follow structural movements			
Suitability for storage	Unlimited			

Sample products for this application type:

- SIGA Rissan
- Isocell Airstop Elasto
- Pro Clima Tescon No.1
- Ampack Ampacoll INT
- Isover Vario Multitape
- Alpha Flex
- Rothoblaas Flexi Band or Speedy Band or Smart Band
- Or other equivalent and proven age tested airtightness tape

APPENDIX - TAPE SPECIFICATION 4

Product Description

60mm wide airtightness tape with 12mm/48mm split backing paper suitable for window junctions.

		Standards	Units	Values
Dimensions	width		m	0.06
Temperature Resistance			°C	-40°C to +100°C
Processing Temperature			°C	From -10°C
Diffusion-equivalent air layer thickness s_d		EN 1931	m	≈ 8
Airtightness: Joint permeability coefficient Linear reference air permeability	a-value Q_{1000}-value	EN 12114	$m^3/(hmdaPA2/3)$ $m^3/(mh)$	< 0.1 ≤ 0.25
Ageing resistance	High permanent adhesive strength, non-drying and non-embrittling without caoutchouc, resin or solvent, can reliably and durably follow structural movements			
Suitability for storage	Unlimited			

Sample products for this application type:

- SIGA Corvum 12/48
- Isocell Airstop Window Tape
- Pro Clima Tescon Profil
- Ampack Ampacoll XT 60 (Double Slit)
- Isover Vario Multitape SL
- Alpha Flex Split
- Rothoblaas Seal Band or Smart Band
- Or other equivalent and proven age tested airtightness tape

APPENDIX - TAPE SPECIFICATION 5

Product Description

Varied width airtightness tape with special film/fleece combination (that can be plastered over) and high-performance adhesive. Split backing paper for ease of installation at corner and other junctions.

		Standards	Units	Values
Dimensions	width		m	0.08 - 0.15
Temperature Resistance			°C	-40°C to +100°C
Processing Temperature			°C	From -10°C
Diffusion-equivalent air layer thickness s_d		EN 1931	m	≈ 20
Tensile properties Maximum tensile strength	lengthwise crosswise	EN 12311-1	N/50mm	220 140
Tensile properties Elongation at maximum tensile	lengthwise crosswise	EN 12311-1	%	70 80
Airtightness: Joint permeability coefficient Linear reference air permeability	a-value Q_{1000}-value	EN 12114	$m^3/(hmdaPA2/3)$ $m^3/(mh)$	< 0.1 ≤ 0.25
Ageing resistance	High permanent adhesive strength, non-drying and non-embrittling without caoutchouc, resin or solvent, can reliably and durably follow structural movements			
Suitability for storage	Unlimited			

Sample products for this application type:

- SIGA Fentrim 20
- Isocell Isowindow Feba Soft (Internal)
- Pro Clima Contega FC
- Ampack Ampacoll BKF
- Isover Vario Bond
- Alpha Fultra-i
- Rothoblaas Plaster Band In
- Or other equivalent and proven age tested airtightness tape



MEDITE® SMARTPLY®
INNOVATIVE TIMBER PRODUCTS

For further information and/or technical advice please contact our dedicated customer service team.

UK: **+44 (0) 1322 424900**
Ireland: **+35 (0) 3518 10205**
France: **+33 (0) 9751 89830**
Netherlands: **+31 (0) 8588 86230**
Belgium: **+32 (0) 2808 6256**

As we continually update our technical datasheets, please check on www.mdfosb.com that you have the latest version.

This technical guide is provided for information purposes only and no liability or responsibility of any kind is accepted by SMARTPLY EUROPE DAC or their representatives. SMARTPLY EUROPE DAC have used reasonable efforts to verify the accuracy of any advice, recommendation or information. SMARTPLY EUROPE DAC reserves the right to alteration of its products, production information and range without notice.

The recommendations provided in this technical guide for the correct use of **SMARTPLY SURE STEP DB** and **SMARTPLY AIRTIGHT** are specifically designed to ensure longevity and performance of these quality products 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 DAC cannot be held responsible for damages arising from nonadherence to these recommendations, or product failures resulting from inadequate structural design or misuse of this product.

In order to provide comprehensive guidance for the correct use of **SMARTPLY SURE STEP DB** and **SMARTPLY AIRTIGHT**, this technical datasheet makes reference to relevant BS and EN standards. SMARTPLY EUROPE DAC cannot be held responsible for claims arising from the use of any information that has been extracted from such sources.

V1-0826

www.mdfosb.com

SMARTPLY®
DEFINING THE STANDARD OF OSB