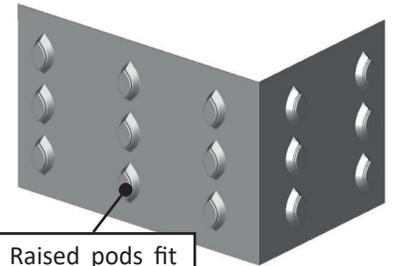


### 1. Recommendation for starting corners

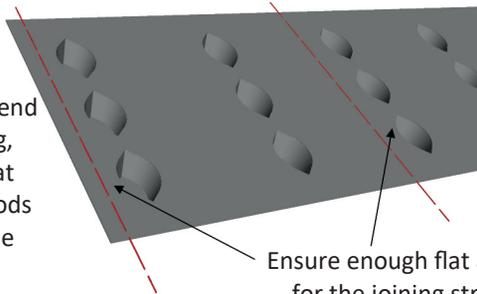
Locate the bend-line on the sheet and fully bend the sheet back onto its flat face. Now bend the sheet the other way until the pods are touching. Repeat this a couple of times until the sheet stays in the required position. Also, the sheet can be bent to suit corners that are not 90° such as some conservatory walls etc. Turn the corner sheet over with the next row, to stagger the joints. **Note: The external masonry is ALWAYS built against the flat face of the sheet, with the raised pods firmly touching the insulation. Install the sheets horizontally.**



Raised pods fit against insulation

### 2. When cutting will intersect the pods

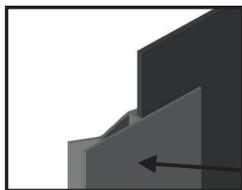
Use two cuts or cut off the end of the sheet. Before cutting, ensure there is enough flat sheet remaining past the pods (at least 30mm) to allow the joining strip to be inserted.



Ensure enough flat area for the joining strip

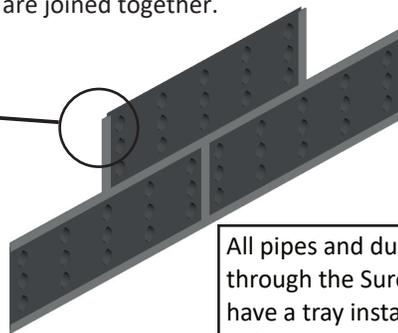
**To prevent interstitial condensation:** Vent the cavity (air bricks or perpend vents) at 1500mm<sup>2</sup> per linear metre run and cut a corresponding slot in the SureCav panel (See BBA Cert. 04/4154 for more information on ventilation). One suggestion is to install perpend vents (approx. 300mm<sup>2</sup> each) at 500mm centres, DPC/tray level and also at the top of the wall. See [surecav.co.uk/products](http://surecav.co.uk/products) for more info.

### 4. Stagger the panels



Stagger the vertical joints as this will strengthen the units as they are joined together.

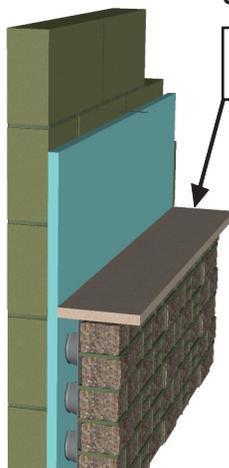
It is recommended to install the flat face of the joining strip outwards to give the maximum width for the mortar bed.



All pipes and ducting that pass through the SureCav panels should have a tray installed over and extend at least 225mm each side of the duct.

### Notes:

- To prevent having to pierce the panels, the wall ties are designed to fit at the top of each 450mm board course to coincide with the horizontal SureCav joints. Cut the joining strips to meet the wall-tie and then continue the other side with the off-cut. The 900mm joining strips are to be used for the horizontal joints. The 400mm joining strips are designed to exactly fit the vertical joints of the SureCav panel.
- The insulation chosen must have a robust surface, that will not allow the SureCav pods to sink in and compromise the water drip feature.
- SureCav is a BBA certified product and as such, should be fitted according to the BBA instructions.



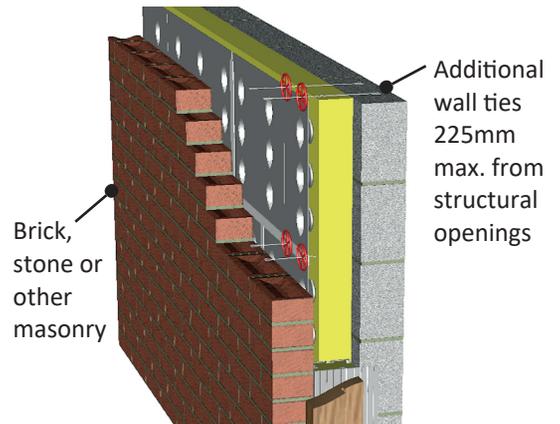
### 6. Keeping the cavity space clean

Place board over cavity

When building up the internal wall, **ALWAYS** ensure that a cavity board or length of timber is used to cover the cavity. It is **essential** that the cavity is kept free from mortar during construction. Always follow best building practice and cover completed stone or flint with hessian to protect from rain.

For more information Phone 01963 34660  
[info@surecav.co.uk](mailto:info@surecav.co.uk) [www.surecav.co.uk](http://www.surecav.co.uk)  
 SureCav® is a registered trademark of SureCav Limited

### 3. Wall ties adjacent to window and door frames

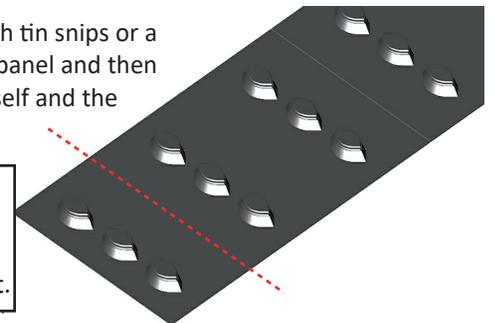


Additional wall ties 225mm max. from structural openings

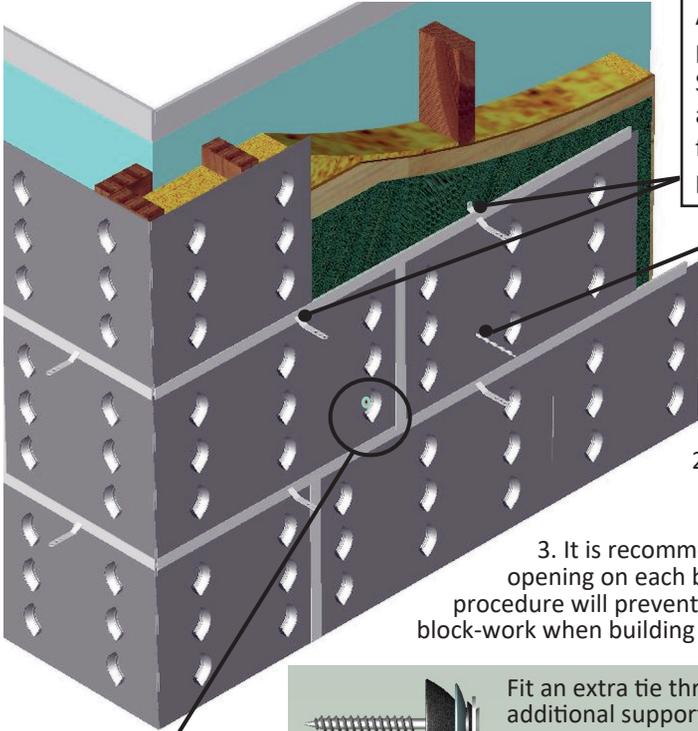
Additional wall ties at 450mm vertical centres within 225mm of all openings are recommended, to satisfy structural requirements. This procedure will prevent slots having to be made in the SureCav sheet on each course of block-work when building away from a doorway or window reveal.

### 5. Cutting and trimming panels

Cut the panels with tin snips or a saw, or score the panel and then bend it back on itself and the unit will snap off.



#### Installing the SureCav panel with a timber-frame building

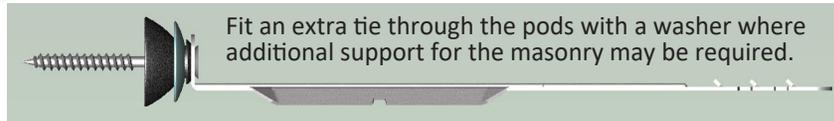


Align all the ties with the main timber-frame studding. Ties are placed every 450mm vertically, to coincide with the horizontal SureCav joints. Cut the horizontal joining strip to fit up to the tie and then continue the joint using the off-cut. If you need extra ties for random stonework, screw the tie into the back of the SureCav pod using the special seal washer.

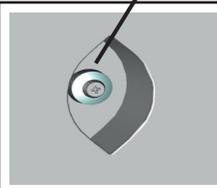
Additional helical ties can be used in any flat area of the sheet to provide extra support to masonry as necessary, **but NOT through the pods.**

#### Notes:

1. It is recommended that the joints of the SureCav panels are staggered to add strength to the system.
2. Do not cut the panels through the pods. If a cut coincides with the pods, then simply shorten the length and insert a new SureCav section using the vertical joining strips.
3. It is recommended that an additional wall tie is included within 225mm of an opening on each board course level to satisfy structural requirements. This procedure will prevent slots having to be made in the SureCav sheet on each course of block-work when building away from a doorway or window reveal.



Ensure the tie and washer are assembled correctly, with the tie on the outside of the washer.



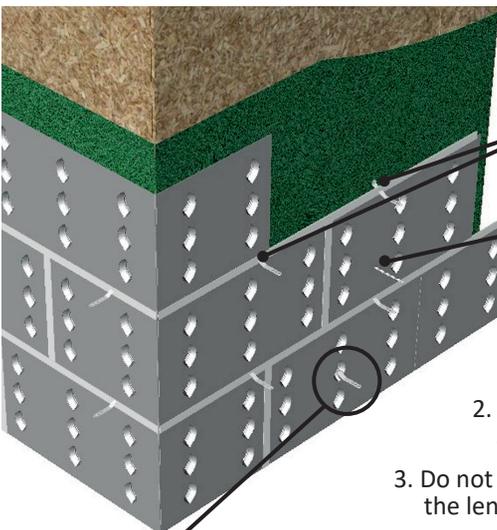
Special seal-washers\*, can be screwed through the pods to fix the whole system to the timber-frame sheathing, enabling the whole building to be clad prior to the start of building the external leaf. Additional masonry support ties can also be fixed through the pods using the seal washers (see below for illustration).

\* Seal-washers can be purchased from SureCav Limited



**NOTE:** Store SureCav out of direct sunlight. If a Timber-frame or SIPs building is to be fully clad with SureCav and exposed to the sun for an prolonged period of time, it may be necessary to cover the sheets with hessian sheeting or similar to prevent any distortion.

#### Installing SureCav with SIPs (structural insulation panels)

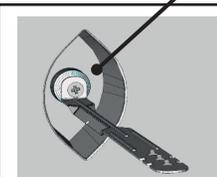


SIP panels do not have main support timbers so the tie can be placed in any suitable position along the length of the SureCav panel. Ties are placed every 450mm vertically, to coincide with the SureCav joints. Cut the horizontal joining strip to fit up to the tie and then continue the other side of the tie using the off-cut.

Helical ties can be used in any flat area of the sheet, **but should NOT pierce through the pods.** Helical ties are especially useful when building with random stonework or flint.

#### Notes:

1. Stainless steel wall-ties can be directly attached to the OSB/3 face of the panel using stainless-steel screw fasteners.
2. It is recommended that the joints of the SureCav panels are staggered to add strength to the system.
3. Do not cut the panels through the pods. If a cut coincides with the pods then simply shorten the length and insert a new SureCav section using the vertical joining strips.



Additional ties can be screwed through any of the pods using special seal-washers that can be purchased directly from SureCav Limited. See [www.surecav.co.uk/products](http://www.surecav.co.uk/products). The seal-washers, used without the tie, can be screwed through the pods to fix the whole system to the SIP sheathing, enabling the whole building to be clad prior to the start of building the external masonry leaf.

*Ties shown for illustrative purposes only. Use stainless steel ties approved by LABC*