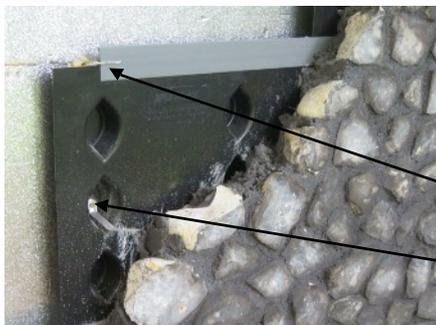


### SureCav construction with flint projects

Thank you for your enquiry regarding SureCav and flint construction. SureCav continues to be specified on many flint projects, including several sites in Norfolk.



Here is an example the build in progress at one site in Bourne End on the Thames.

Standard wall-tie

Note the additional tie that has been fixed through the pod with the SureCav special seal-washer.

SureCav was also featured on Grand Designs (Newbury Christmas Cottage 2013) as shown in the photos below.



### SureCav construction - Overview

All the construction projects to date have been carried out with the flint being bedded directly against the SureCav sheets, the SureCav acting as an effective backing board, protecting the cavity from moisture and mortar. Additional support for the flint can be achieved by any of the following methods:

- Fitting frame ties through the pods only using special seal-washers
- Helical ties where needed, through the flat surface of the sheet only, with the twist acting as a drip.
- Stainless steel expanded metal lathe(EML)can be set in the bed for support, cable tied to the wall ties.

Please see the next page for a more detailed explanation.

## Timber-frame construction

For a standard timber-frame with no external insulation, fit the SureCav directly against the breather membrane using the seal washers through the pods. The special seal-washers can be purchased from SureCav Limited in bags of 50 and we recommend 5 per sheet to ensure stability if affected by high winds before the masons start. Using the seal washers enables the whole SureCav system to be fixed to the timber-frame ahead of the masons. Standard frame-ties are fixed at the top of each SureCav board course into the studs at the required centres. Additional ties can also be fixed through any pod using the seal-washers, or helical ties through the flat face only.

In some instances, insulation is specified to be first installed against the timber-frame, so the SureCav will sit against the insulation, with the ties at each 450mm board course, as before, at the required centres.

Trim the long joining strip up to the tie and continue with the off-cut the other side.

## Block inner-leaf construction

For inner leaf blockwork, install the ties in the blockwork as usual each 450mm vertically, doubling up the ties at reveals and openings, within 225mm of the opening. This avoids having to cut slots in the SureCav sheets each 225mm vertically.

Install the insulation and place the SureCav panels against the insulation, using the wall-tie clips to hold the SureCav in place.



## Flint construction with brick quoins

For brick quoins, install the SureCav at least 150mm behind the brick, preferably up to the corner to protect the joint between the 2 types of masonry. For more details see:

<https://www.surecav.co.uk/downloads?attr%5B5%5D%5B%5D=Brick+quoins>

## Helical ties

Helical ties can be used with either timber-frame or a block inner leaf. For solid timber-frame and SIP systems, helical ties are often used entirely throughout the project. For block inner-leaf, drill a pilot hole through the flat face of the sheet only (never through the pods) and into the block. Fix the helical tie with a suitable applicator. These ties are often call 'remedial ties' such as supplied by Twistfix, Thor or Permagard etc.

We will be pleased to provide any additional information.

Please call us any time on 01963 34660 or see our web site [www.surecav.co.uk](http://www.surecav.co.uk)



For downloads of drawings relating to flint:

<https://www.surecav.co.uk/downloads?attr%5B7%5D%5B%5D=Flint>