

# YBS Insulation

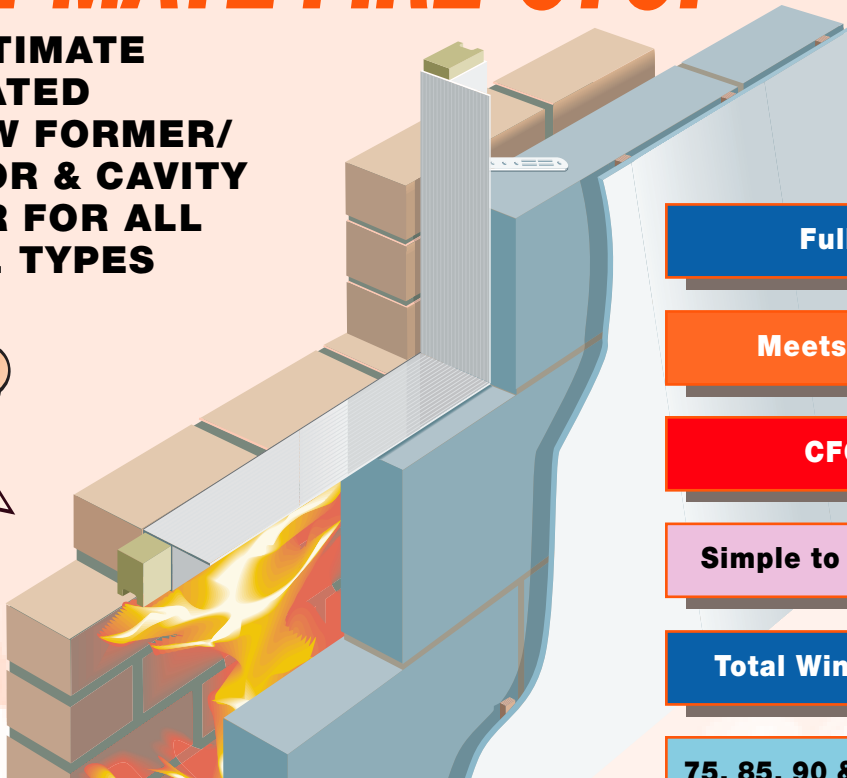
HIGH QUALITY PRODUCTS FOR THE BUILDING INDUSTRY

CI/SfB	(31,9)	Xn6
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## CAVI-MATE FIRE-STOP

**THE ULTIMATE  
FIRE RATED  
WINDOW FORMER/  
LOCATOR & CAVITY  
CLOSER FOR ALL  
REVEAL TYPES**



**OVER 60mins  
FIRE INTEGRITY**

*Warrington*  
**FIRE**  
*research*

ASSESSED PRODUCT  
TESTED TO  
BS476 PART:20

**Fully Certificated**

**Meets NHBC Standards**

**CFC / HCFC Free**

**Simple to Fit - Saves Site Time**

**Total Window Former System**

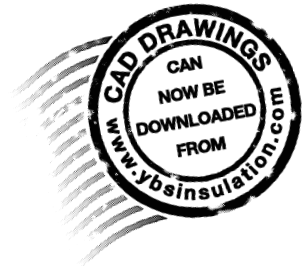
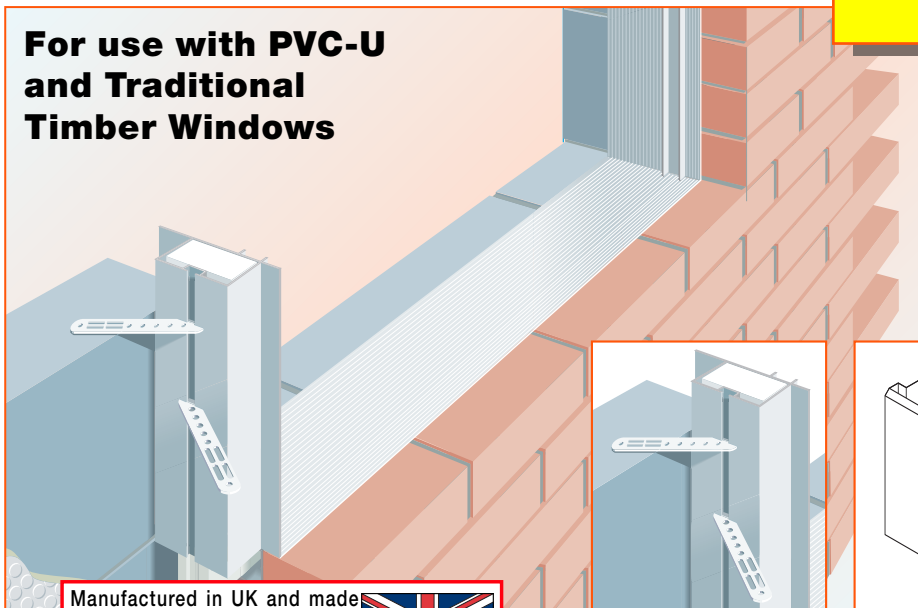
**75, 85, 90 & 100mm Cavity Widths**

**Fully Fire Tested**

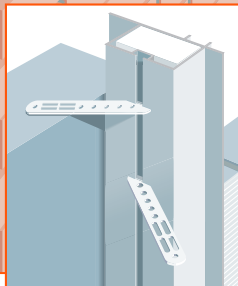
**Robust & Cost Effective**

## CAVI-MATE EPS WINDOW FORMER/LOCATOR & CAVITY CLOSER

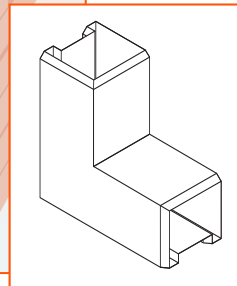
**For use with PVC-U  
and Traditional  
Timber Windows**



Manufactured in UK and made to a Quality System meeting the requirements of BS EN ISO 9002



**Brick Tie - holds sub-frame securely in position**



**Corner Cleat for quick sub-frame assembly**



**Window Former For Perfect Windows**

**A ROBUST AND  
COST EFFECTIVE  
SYSTEM SPECIFICALLY  
DESIGNED FOR THE  
UK BUILDING INDUSTRY**

**CAVI-MATE** is a new, robust window installation system ideal for the new build market. Manufactured from high quality PVC-U, it is a window former, locator and cavity closer, which enables Contractors to fit window frames quickly and easily by building around the sub-frame then fitting the window after all other building work is completed. Builder-friendly, **CAVI-MATE** can be used in conjunction with any type of window system, including timber, and can be mechanically jointed using a simple, purpose designed corner cleat.

# CAVI-MATE

Manufactured in UK and made to a Quality System meeting the requirements of BS EN ISO 9002



## WINDOW FORMER/LOCATOR & CAVITY CLOSER

**For use with PVC-U and  
Traditional Timber Windows**

### CAVI-MATE CAVITY CLOSER

### PRODUCT RANGE

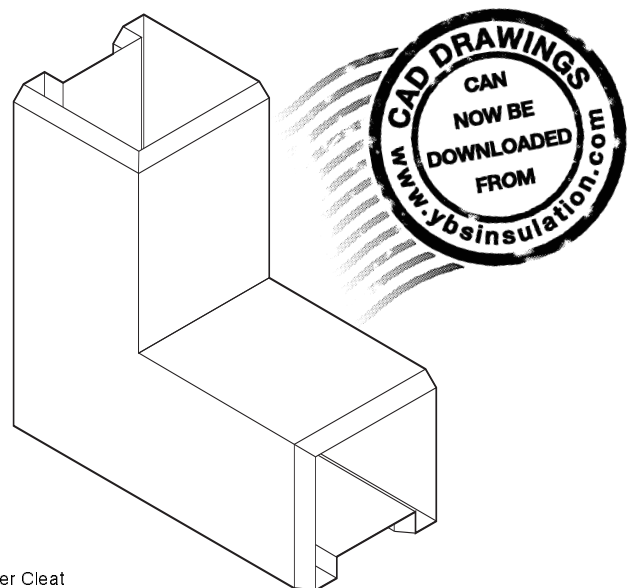
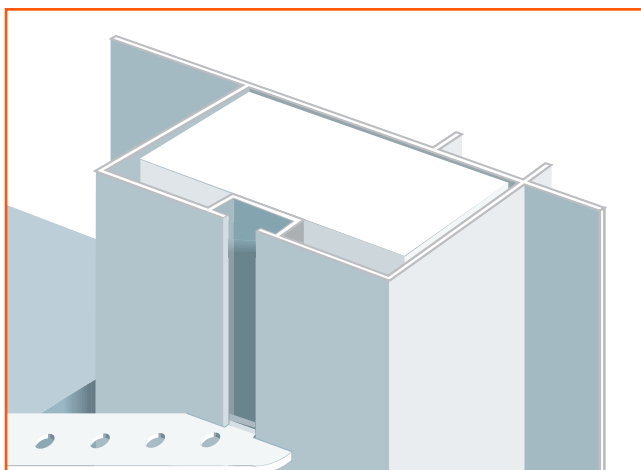
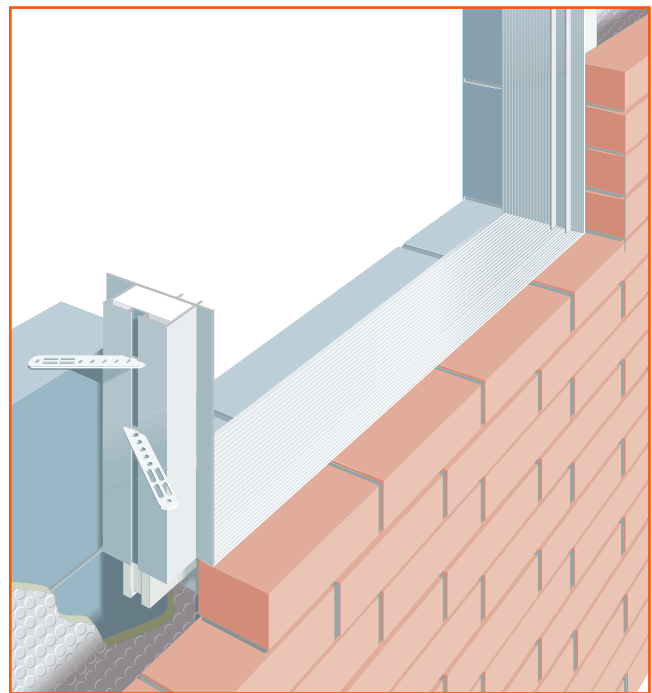
- 75, 85, 90 and 100mm cavity sub-frame profiles from stock
- Can be supplied in linear metres (3m or 6m)
- Window Packs:
  - 3 Jamb lengths (to suit your window)
  - 2 x Corner Cleats (cavity closers)
  - Brick ties and jamb clips (for your application)
- Cavity brick ties
- Simple push in corner cleats for quick sub-frame assembly ie mitre not required
- Jamb clips for clipping window into place
- Window cill clips

### AUXILIARY PRODUCTS

- Corner Cleat
- Cavi-Ties 50-100mm

### SPECIAL FEATURES

**CAVI-MATE EPS** and **Cavi-Mate Fire-Stop** have been designed to offer builders an easy to use, cost effective method of achieving perfect windows. Once the builder has decided the frame positioning and identified the cavity width, the **CAVI-MATE EPS** and **Cavi-Mate Fire-Stop** 'u-shape' sub-frame can be assembled using the simple push in corner cleat and slotted into place ready for building work to commence.

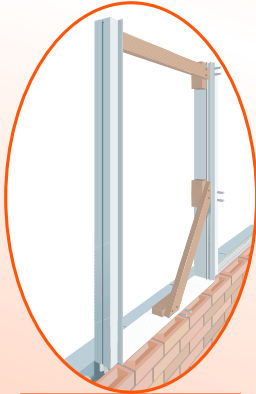


Corner Cleat

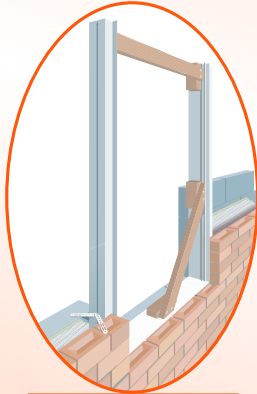
**Insulation materials are available to  
compliment this system - please call.**

**COMPREHENSIVE FIXING DETAILS ARE AVAILABLE UPON REQUEST**

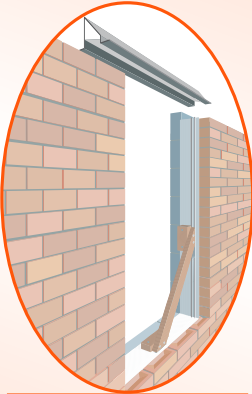
# ACHIEVE PERFECTLY FITTED WINDOWS...EVERY TIME



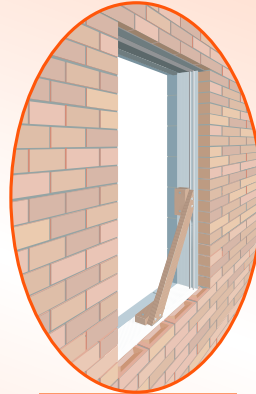
Build inner and outer course up to cill level and locate the corner cleat sub-frame into the cavity



Build up one course of brick and blockwork and insert sub-frame brick ties at each side



Continue to build around sub-frame, inserting brick ties at every course of blockwork

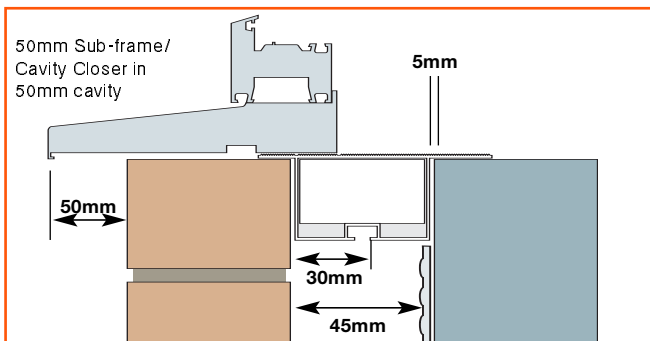


Build up to lintel bedding height and set lintel and ventilation system in position

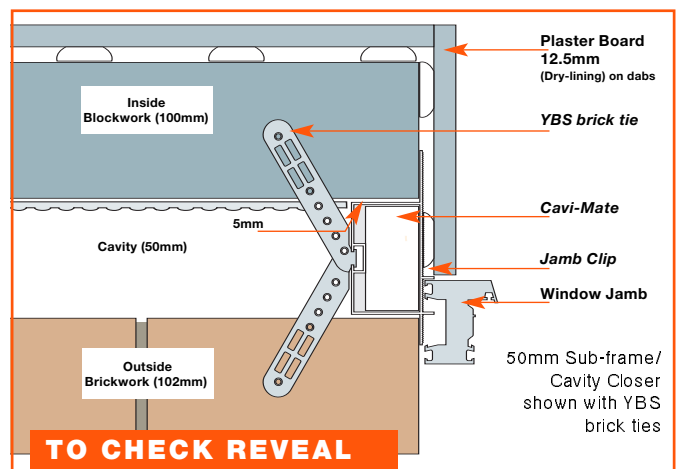


Continue to build until you are ready to fit your window. Fit a minimum of two jamb clips to the outer window frame and simply clip the glazed window in place

## CILL SECTION



## PLAN DETAILS



## CAVI-MATE WINDOW INSTALLATION

### Window Manufacture

Manufacture the PVC-U window to conventional standards and check overall sizes remembering that the working cavity between the inside of the sub-frame and the outside of the window is 5mm ±2mm per side.

When satisfied that window sizes are correct, screw the jamb clip to the outer frame jamb 150-250mm from each corner and a maximum pitch of 600mm. There should be a minimum 2 clips per jamb member positioned on the outer frame as shown below:-

**NOTE:** Attention is required when handling the jamb clip - as the serrated edges can be sharp. It is recommended that suitable gloves are used when installing this component.

### CAVI-MATE EPS and Cavi-Mate Fire-Stop SUB-FRAME ASSEMBLY



#### Sizes and Tolerances

To achieve trouble free window installation it is essential that the sub-frame is manufactured to within the tolerances specified below, that the corners are jointed square and that misalignment of the sub-frame is kept to a minimum both during manufacture and during construction on site. **CAVI-MATE** has been designed on an installed space between window and sub-frame of 5mm ±2mm per side, and so attention to detail is important. Remember the tolerance of ±2mm has to be shared between the sub-frame actual sizes and the window actual size.

#### WINDOW WIDTH:

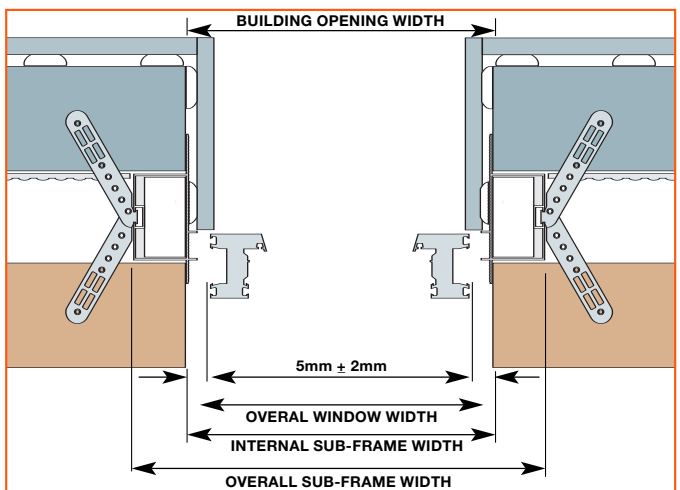
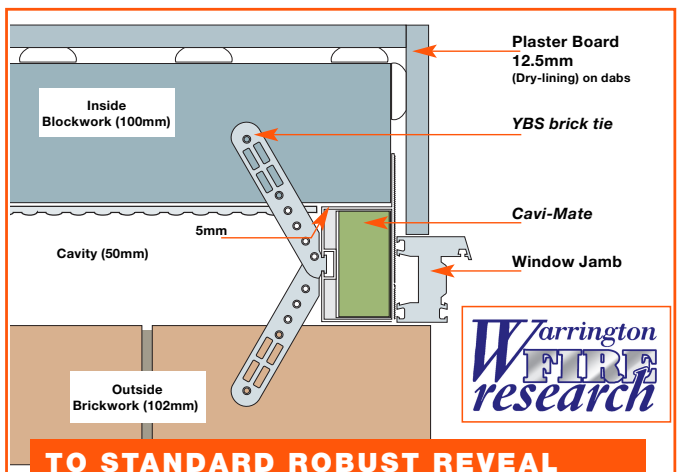
Overall Window Width = Internal Sub-Frame Width - 10mm

#### FOR A MECHANICALLY JOINTED SUB-FRAME:

MITRE CUT - Sub-Frame Cill Section Overall Width = Opening Width + 120mm

SQUARE CUT - Sub-Frame Cill Section

Overall Width = Opening Width

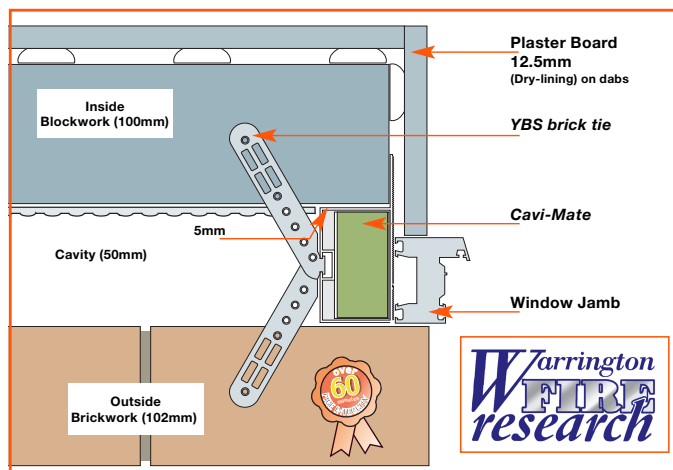
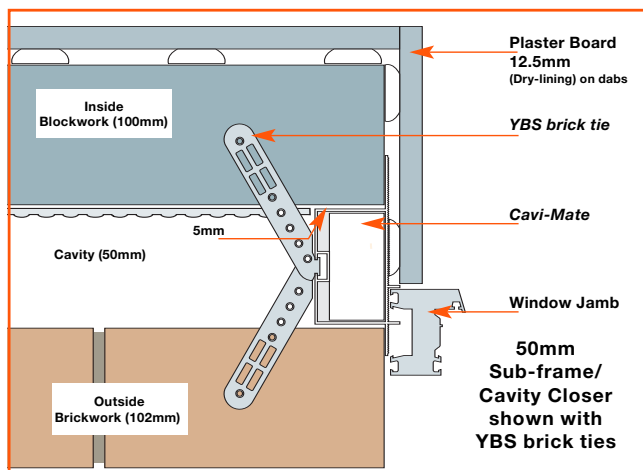


# Technical Information - Thermal Insulation

## CAVI-MATE EPS

## Typical Plan Section

## Cavi-Mate Fire-Stop



CONSTRUCTION 'R' Value	Thickness (mm)	Thermal Resistance 'R' (m <sup>2</sup> K/W)
Plasterboard	12.50	0.066
Plaster Dabs	15.00	0.170
<b>Cavi-Mate EPS</b>	30mm	0.798
Brick, External	65.00	0.084

**Total 'R' Value = 1.118 m<sup>2</sup>K/W**

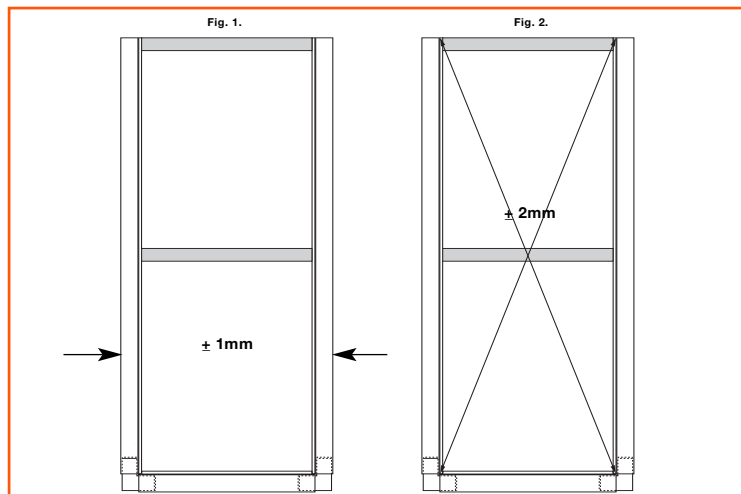
CONSTRUCTION 'R' Value	Thickness (mm)	Thermal Resistance 'R' (m <sup>2</sup> K/W)
Plasterboard	12.50	0.066
Plaster Dabs	15.00	0.170
<b>Cavi-MateFS</b>	50mm	1.333
Brick External	10.00	0.013

**Total 'R' Value = 1.582 m<sup>2</sup>K/W**

## DOOR SUB-FRAME TEMPLATES

When using **CAVI-MATE EPS and Cavi-Mate Fire-Stop** cavity closers as door sub-frames, it is recommended (due to the importance of tolerance in the fixing of doors), that sub-frames are braced at the head and at the centre.

The tolerance across the width measured at the cill, waist and head needs to be within 2mm (Fig. 1) and within 4mm across the diagonal (Fig. 2). When installing door sub-frames, constant checks must be made, to ensure that the frame is built in - plumb and square.



The detail above shows the **CAVI-MATE EPS and Cavi-Mate Fire-Stop** sub-frame used in a door application. It is recommended that door fixing is through the outer leaf of the brickwork.

**For alternative methods of installation please contact:  
YBS Technical on: Tel: 01909 721 662.**

For Sales and Technical Support please contact:



For Details of other YBS Products please contact:

**Yorkshire Building Services (WHITWELL) Ltd.**

The Crags Industrial Park, Morven Street, Creswell, Derbyshire S80 4AJ

Tel: 01909 721662

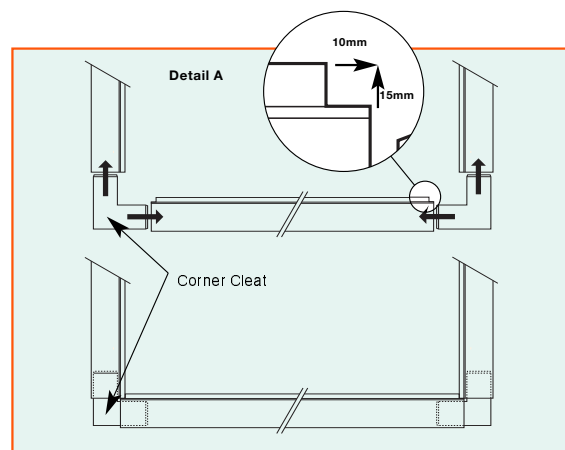
Fax: 01909 721442

sales@ybsinsulation.com www.ybsinsulation.com

## SUB-FRAME ASSEMBLY

### Mechanically Jointed

The mechanical jointing option uses two corner cleats, which allows the sub-frame to be cut to size and "knocked" together with a cleat at each corner.



#### Please note:

When using this option, the deductions require:

- The cill to be assembled first.
- The frame up-stand (if present) is removed locally to allow jamb/cill sections to seat properly.
- The frame up-stand of the sub-frame must be "notched back" on the horizontal cill sub-frame to allow jointing at each corner (Detail A).

Once the sub-frame has been jointed, check that:

- The corners are square
- The vertical members are straight
- The sub-frame is flat i.e. not twisted or racked.

As a final check, measure the finished sub-frame. Internal height and width are correct dimensions, remembering that the working space between the sub-frame and the installed window is 5mm, ±2mm each side (10mm nominal overall).