



# WELSH TRADITIONAL BUILDINGS FORUM FFORWM ADEILADAU TRADDODIADOL CYMRU

Level 3 Award Energy Efficiency Measures in Older and Traditional Buildings Dyfarniad Lefel 3 Mesurau Effeithlonrwydd Ynni ar gyfer Adeiladau Hŷn a Thraddodiadol





Age and History Vernacular materials and methods of Construction

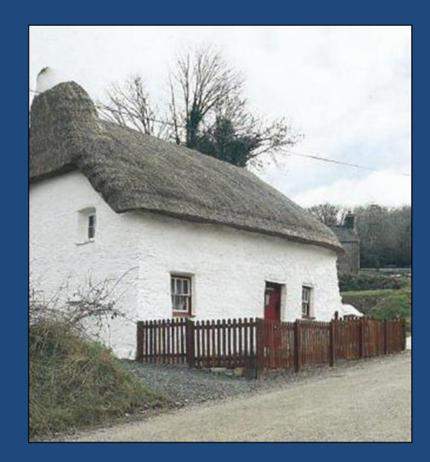
## **Architectural Evolution**

### **Dependent upon:**

- Materials
- Location
- Transport
- Technology
- Fashion

## Vernacular

- Associated with a specific area
- Local materials
- Local craftsmanship
- Local design



## Vernacular

### **Polite**

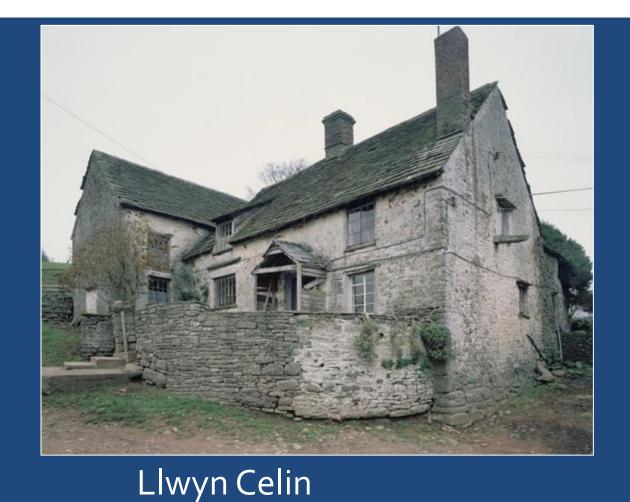




### **Vernacular and Polite**

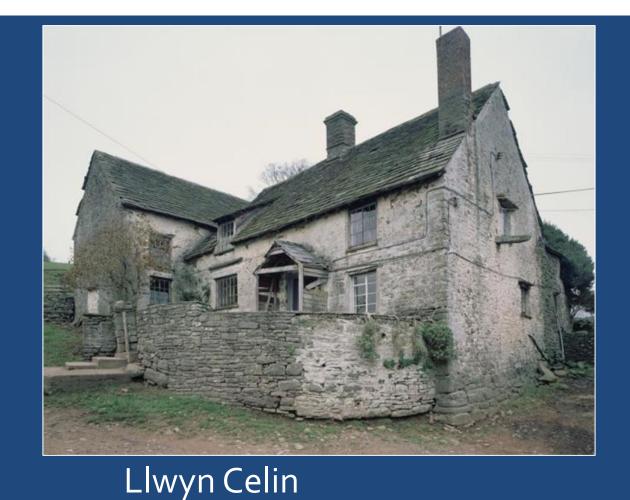


## Mediaeval



Local materials: Rubble masonry Stone roof tiles Oak roof and floor timbers Lime mortar Gravel aggregates

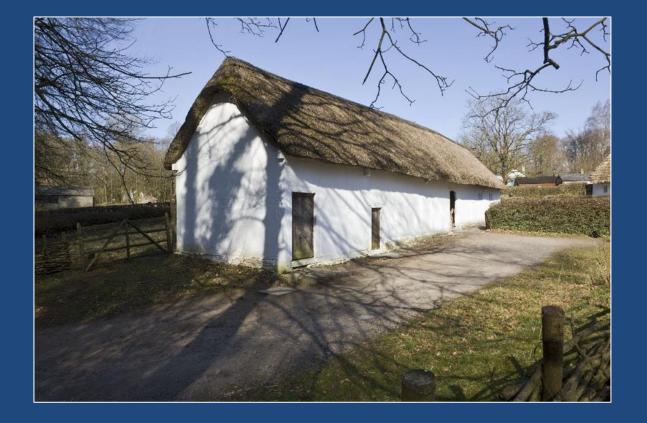
## Mediaeval



**Traditional design**: High status hall Rare



Local materials: Cruck timber frame Thatched roof Earth floor Wattle and daub panels limewash



Traditional design: Mid status farm Unchanged from mediaeval design

#### Aldeburgh's Moot Hall



Local materials: Oak timber frame Clay tiled roof Clay brick infill panels Flint masonry Lime mortar



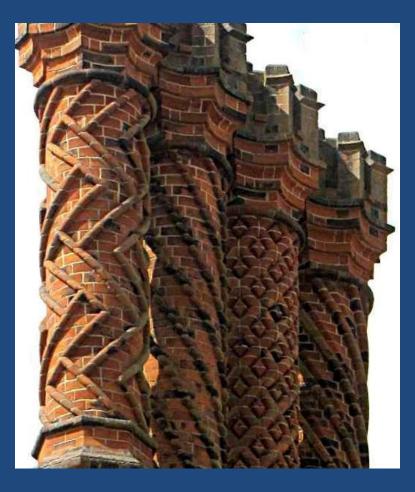
#### Aldeburgh's Moot Hall



**Traditional design**: Mid/high status meeting hall Common Tudor style Brick panels of various designs Leaded lights in timber frames

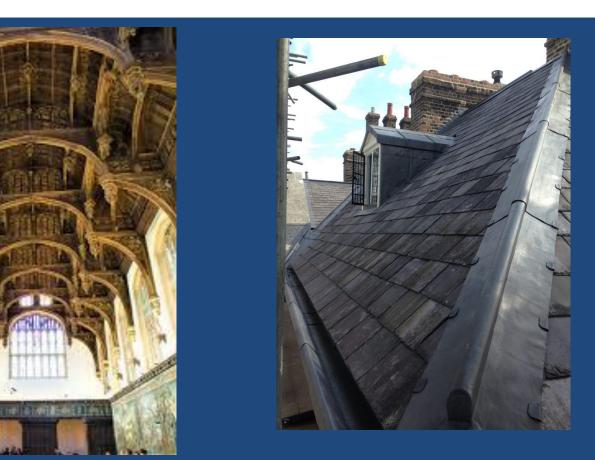


#### Hampton Court Palace









Hampton Court Palace

#### Jacobean



#### Abernodwydd

Local materials: Oak timber frame Straw thatched roof Wattle and daub infill panels Masonry plinth Lime mortar

#### Wattle and daub





## Thatch



#### **Clom or cob earth walling**





#### **Random Rubble Walling**













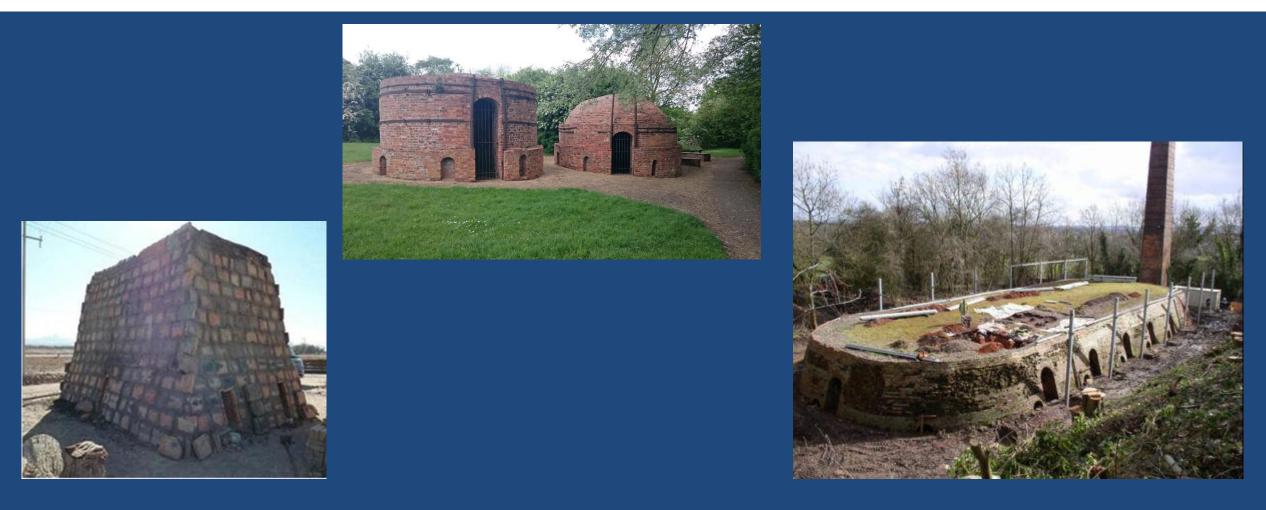








## **Bricks**



#### **Brickwork**





### Brickwork





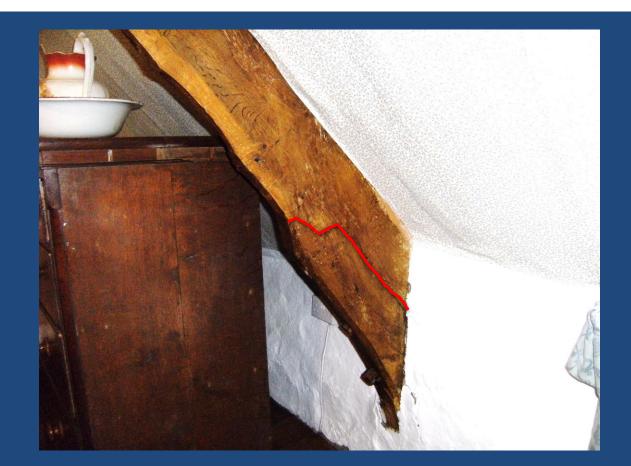
### Brickwork



#### **Roof structure**



#### Cruck frame



#### Jointed Cruck frame

#### **Roof structure**

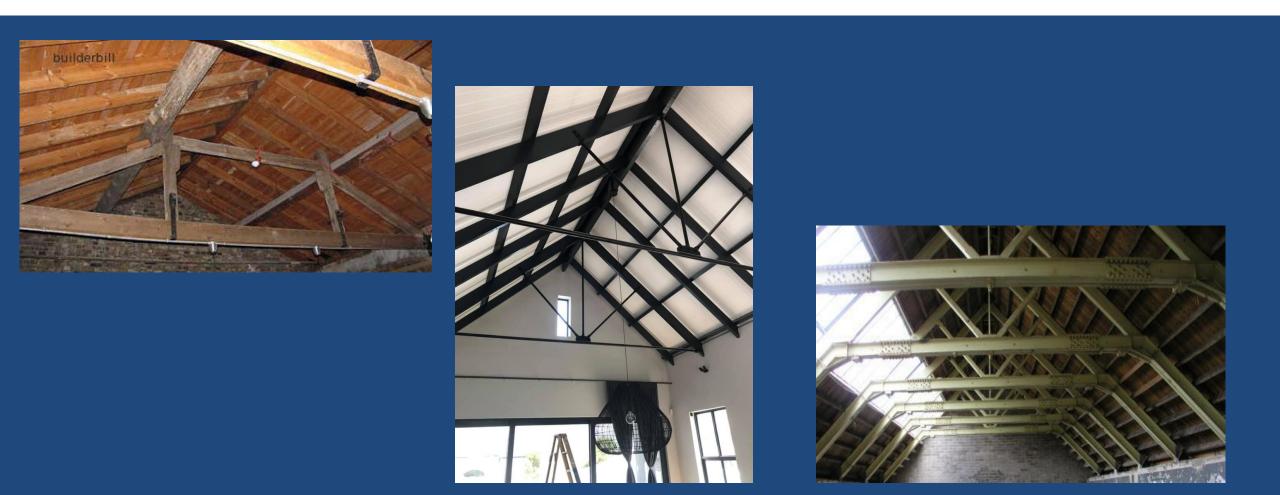








#### **Roof structure**



### **Roof covering**



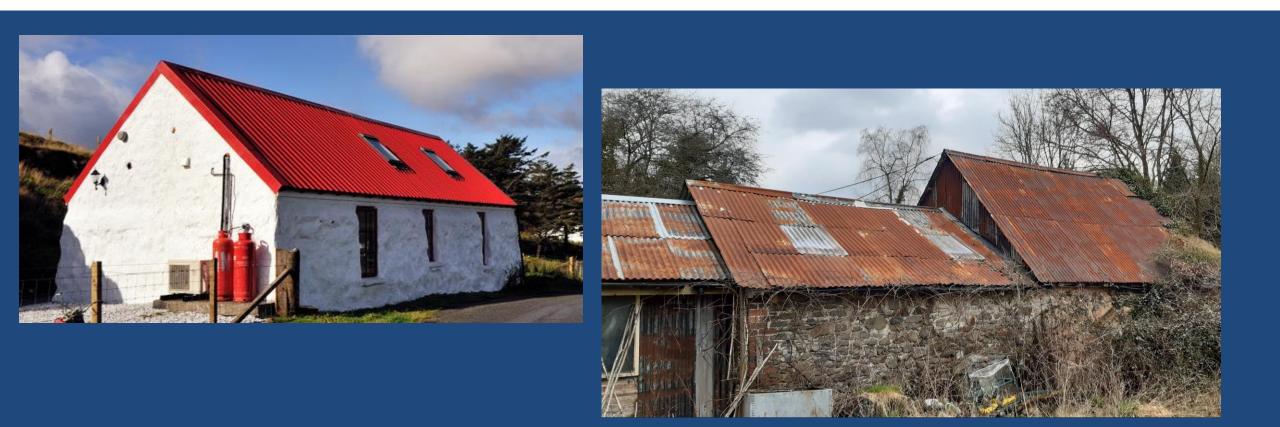




### **Roof covering**



## **Roof covering**



### Windows



#### Windows



#### Windows



### Glass

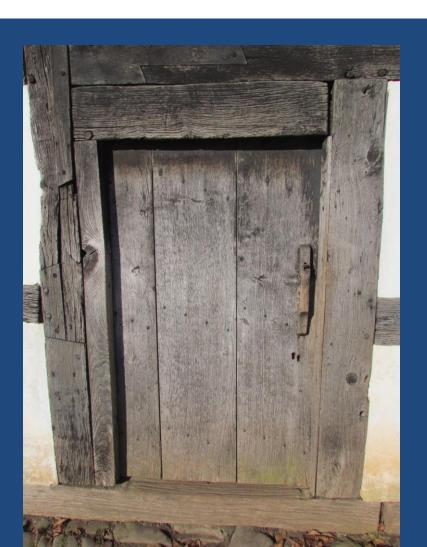




#### **External finishes**



### Doors







## What is important?

- Nearly all the buildings are "solid wall" construction
- The majority of the materials are "breathable"
- Most materials were locally sourced
- Altering or adapting these buildings with the incorrect, incompatible materials can have severe consequences for the fabric itself, for the sustainability of the building and any energy efficiency measures

## WELSH TRADITIONAL BUILDINGS FORUM FFORWM ADEILADAU TRADDODIADOL CYMRU

The Welsh Traditional Buildings Forum promotes the development of traditional building skills and sustainability issues relating to all old buildings across Wales.

Thank you to the CITB for funding the Heritage Construction in Wales project, and the Wales Cultural Recovery Fund for funding the final stages of the project. This funding enabled this information to be made available to all those wishing to learn about the appropriate energy efficiency measures for older and traditional buildings.

For further information contact:

https://www.wtbf.co.uk/

Mae Fforwm Adeiladau Traddodiadol Cymru yn hyrwyddo datblygiad sgiliau adeiladu traddodiadol a materion cynaliadwyedd sy'n ymwneud â phob hen adeilad ledled Cymru.

Diolch i'r CITB am ariannu'r prosiect Adeiladu Treftadaeth yng Nghymru, a Chronfa Adfer Diwylliannol Cymru am ariannu camau olaf y prosiect. Fe wnaeth yr arian hwn alluogi'r wybodaeth hon i fod ar gael i bawb sy'n dymuno dysgu am y mesurau effeithlonrwydd ynni priodol ar gyfer adeiladau hŷn a thraddodiadol.

Am wybodaeth bellach cysylltwch â: https://www.wtbf.co.uk/