



# Rethinking Roof Construction

# Introducing the award winning room in roof solution

Highly Commended



Housebuilder  
Product Awards

Highly Commended



Housebuilder  
Product Awards

Winner



Housebuilder  
Product Awards

Winner



Build It  
Awards

Winner



Structural Timber  
Awards





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## Smartroof

### Part of the Keystone Group

The history of the Keystone Group has been one of relentless expansion and continuous innovation whilst redefining the meaning of service in the construction industry. With a clear focus on service and innovation the Keystone Group continues to expand and develop its extensive product offering.

### Keystone Group History

# 1989

Keystone Lintels  
Founded



# 2001

Keylite  
Roof Windows  
Founded



# 2006

Keystone Acquired  
IG Lintels



# 2012

Smartroof Acquired



IG Elements  
Founded



The Group acquired Smartroof in 2012 to add to its growing portfolio of innovative offsite solutions. The Group recognised that the revolutionary Smartroof system addressed many of the challenges facing housebuilders today; health and safety, speed of construction, skills shortage, cost certainty and product quality.

Smartroof offers the complete room in roof supply and fit package from a single source including insulated panels, spandrels, dormers, roof windows, GRP chimneys, soffit and fascia. This allows the builder to lock in cost certainty as the roof is supplied as a single sub-contracted item at a fixed rate delivered and installed in 1 day.

# 2015

## 2017

IG Masonry Support  
Founded

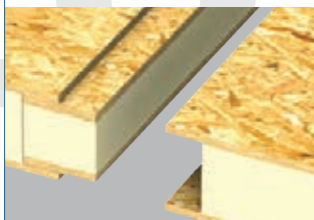


Partnership with  
Timber Innovations



## 2016

Partnership  
with Wyckham  
Blackwell



## 2018

Partnership  
with Crendon  
Timber Engineering



## 4 Key Advantages of the Smartroof System



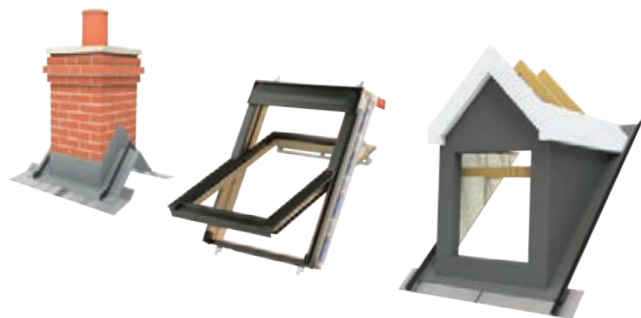
### 1 Health & Safety

The major safety benefits over traditional room in roof products include less time spent working at height and erecting scaffolding in confined spaces. Reduced vehicle movements onsite and less manual handling is a further benefit during the install process and the risk associated with falling blockwork from exposed gable walls is eliminated.



### 2 Cost Certainty

Smartroof can provide the complete roofing package including Roof Panels, Spandrels, Dormers, Roof Windows and plastics to suit the clients requirements. This allows the builder to lock in cost certainty for the roof as this can be supplied as a single sub-contracted item at a fixed rate.



### 3 Consistent Quality

Smartroof is manufactured in a factory governed by strict quality control procedures. This helps ensure no cold spots in the panels or spandrels that may arise from more traditional construction methods onsite. This is an important factor in the drive to close the performance gap.





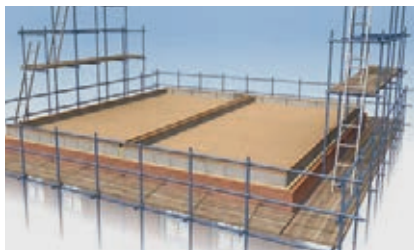
## 4 Speed of Construction

The risk of downtime associated with co-ordinating multiple trades, product deliveries and safe storage of materials from different suppliers for traditional room in roof is completely eliminated with the Smartroof system. This helps free up the house builders skilled trades onsite to speed up the build programme.

### Smartroof

Installed in 1 day

**8am** Smartroof arrives onsite



**2pm** All roof panels in place



**10am** Install spandrel panels



**4pm** Dormers & plastics in place



### Traditional Attic Truss

Installed in 10 days

#### Day 1

Gable and party wall blockwork or timber spandrels.

#### Day 2

Internal scaffolding and steel purlins.

#### Day 3

Upper scaffolding and blockwork or top hat spandrels.

#### Day 4

Attic trusses and cut rafter timbers (2 days).

#### Day 6

Consider risk of delays due to late deliveries and delay with trades.

#### Day 7

Roofing membrane & tiling battens.

#### Day 8

Insulation and vapour barrier (strike internal scaffolding).

#### Day 9

Bracing and batten sloped ceiling and ceiling joists.

#### Day 10

Dormers, roof windows, soffit and fascia to eaves and barge.

**Bloor Homes, Saxon Gate** / All 6 roofs were installed by a team of 3 men in 1 day



# Smart Money Price Comparison

## Smartroof vs Traditional Attic Truss

The Smartroof package delivers major benefits in terms of site safety, thermal performance, consistent quality and speed of construction, all at no extra cost. The Smartroof price comparison ensures a 'like for like' cost comparison when reviewing your Smartroof quotation.



Smartroof has completed an in-depth cost comparison on a pair of townhouses over leaf.

For more details or to request a copy of our full price comparison please call



Smartroof Support  
**01283 200 199**

## Non Tangible Considerations

- 01** Up to 2 weeks saving on prelim costs and build programme
- 02** Reduced waste generated onsite
- 03** Speed of build eliminates the need to co-ordinate more trades and material deliveries
- 04** Reduced vehicle movements onsite as a pair of roofs are delivered on 1 lorry
- 05** Storage of attic trusses onsite can be an issue and may require a truss rack increasing costs
- 06** Attic trusses can pose a significant health & safety risk if being transported from storage area to plot
- 07** Reduces demand on forklift as no longer required to lift blocks for gable & party walls
- 08** GRP Dormers, Fascia & Soffit are often over ordered, damaged, cut down or can go missing onsite
- 09** Health & Safety - eliminates the time spent working at the leading edge & multiple trades working at height
- 10** Fixed price & cost certainty
- 11** Offsite Smartroof prefabricated systems ensure consistent quality
- 12** Robust details & PEFC certified



## Smartroof vs Traditional Attic Truss

### Smartroof

1 Day Install

Crane & Skips	*Incl.
External Wall	£2,884
Party Wall	*Incl.
Second Floor Joists	£2,790
Main Roof	£13,385
Dormers, Rooflights & Fascia / Soffit	*Incl.
Internal Works	*Incl.

**Total for pair of townhouses**

**£19,059**

\*Incl. - Included in Smartroof package

### Attic Truss

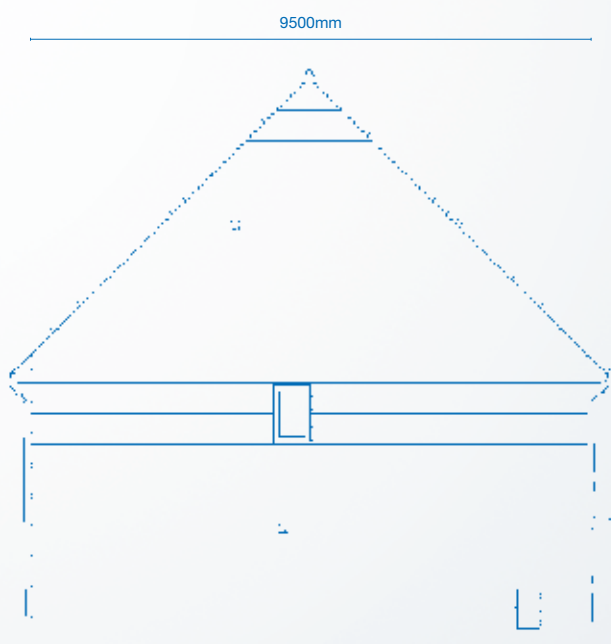
10 Day Install

Crane & Skips	£856
External Wall	£4,242
Party Wall	£1,985
Second Floor Joists	£0
Main Roof	£8,057
Dormers, Rooflights & Fascia / Soffit	£3,734
Internal Works	£1,628

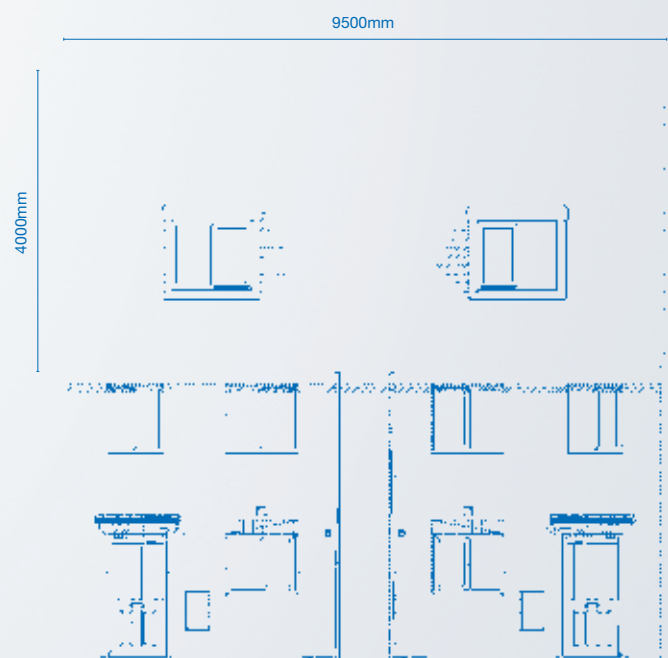
**Total for pair of townhouses**

**£20,502**

## Pair of Townhouses



Side Elevation



Front Elevation

## Enquiry to Install Process

1

### Enquiry Received

Via CAD dwg files



2

### Quotation Provided

within 1 week  
of enquiry



3

### Order Confirmation



4

### Pre-start Meeting

Onsite meeting  
7 weeks before delivery



5

### Design Approval

Before Smartroof product  
can be manufactured, full  
design approval is required



The Smartroof system is now recognised by house builders as the preferred solution for room in roof requirements. The Enquiry to Install process involves 9 simple steps. Our experienced team will guide you through the order process with expert advice every step of the way.

# 6

## Call-off

6 weeks  
before delivery



# 7

## Pre-installation Site Visit

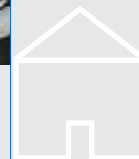
1 week before delivery  
to ensure plot formation  
is ready for Smartroof  
installation



# 8

## Installation

3 hours per roof  
(Smartroof App  
Quality Control sign-off)

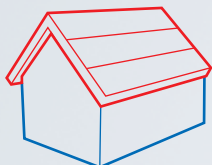


# 9

## Brand New Smartroof



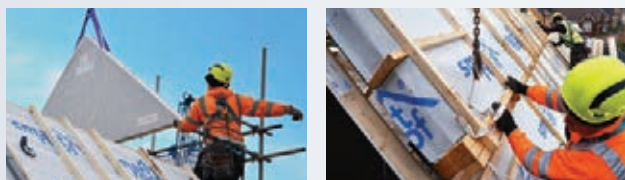




## Smartroof Range Gable to Gable

A Gable to Gable Smartroof system incorporates a panelised cassette that can span up to 5.6m in width from spandrel to spandrel.

Wider roofs are detailed on pages 14 – 15.



Where there is a relatively short span (less than 5.6m), our roof panels are installed 'Gable to Gable'. The roof panels are landed horizontally, and are supported by the two gable spandrel panels.

Smartroof utilises a unique patented design and engineering system that facilitates this installation process which has the following benefits:

### **Vaulted Ceilings**

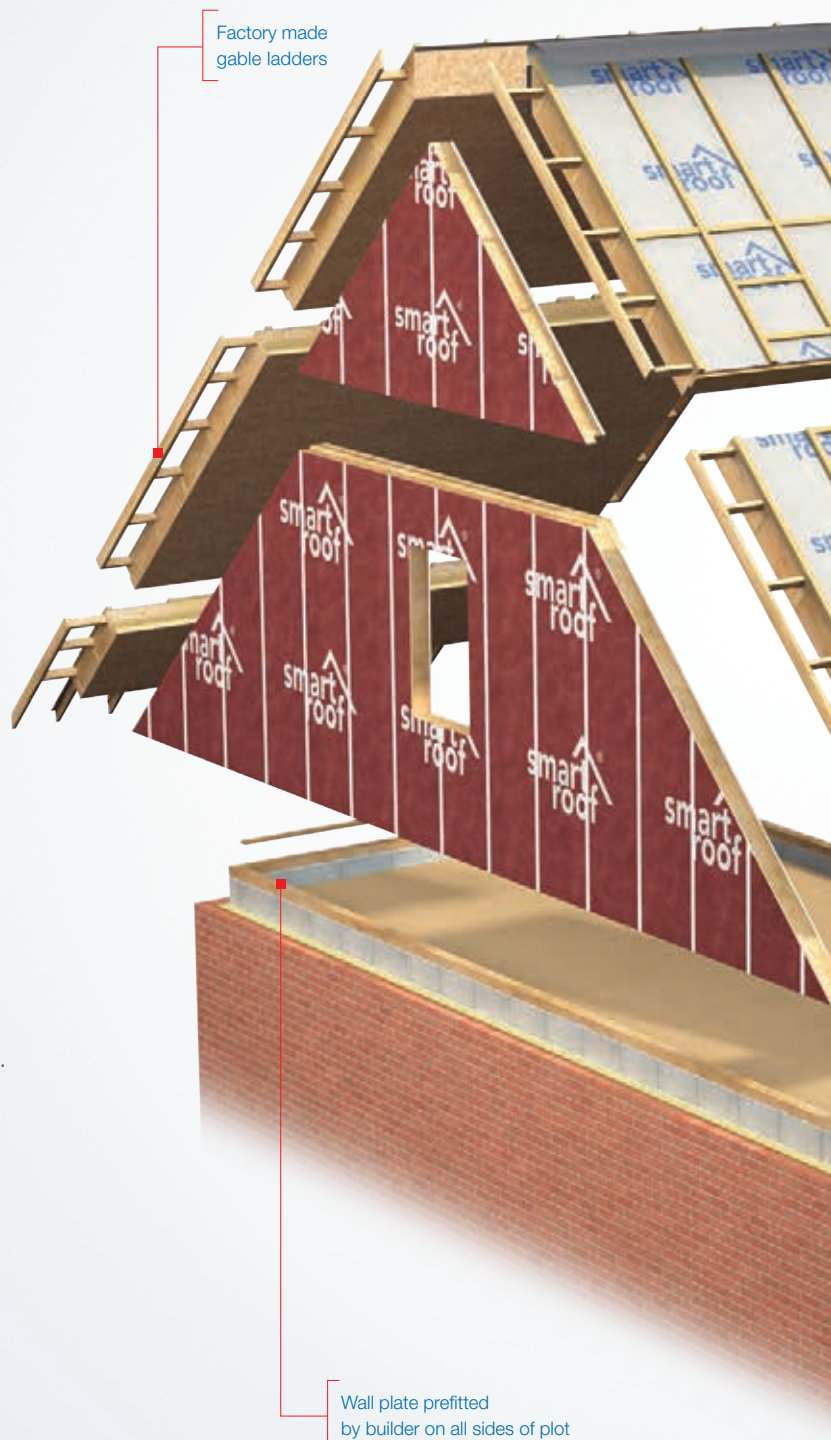
Spanning gable to gable provides flexibility in design and the option to utilise more roof space by incorporating vaulted ceilings. Due to the panels being supported by the two gable ends, there is no requirement for internal support such as glulams / steels / box girders.

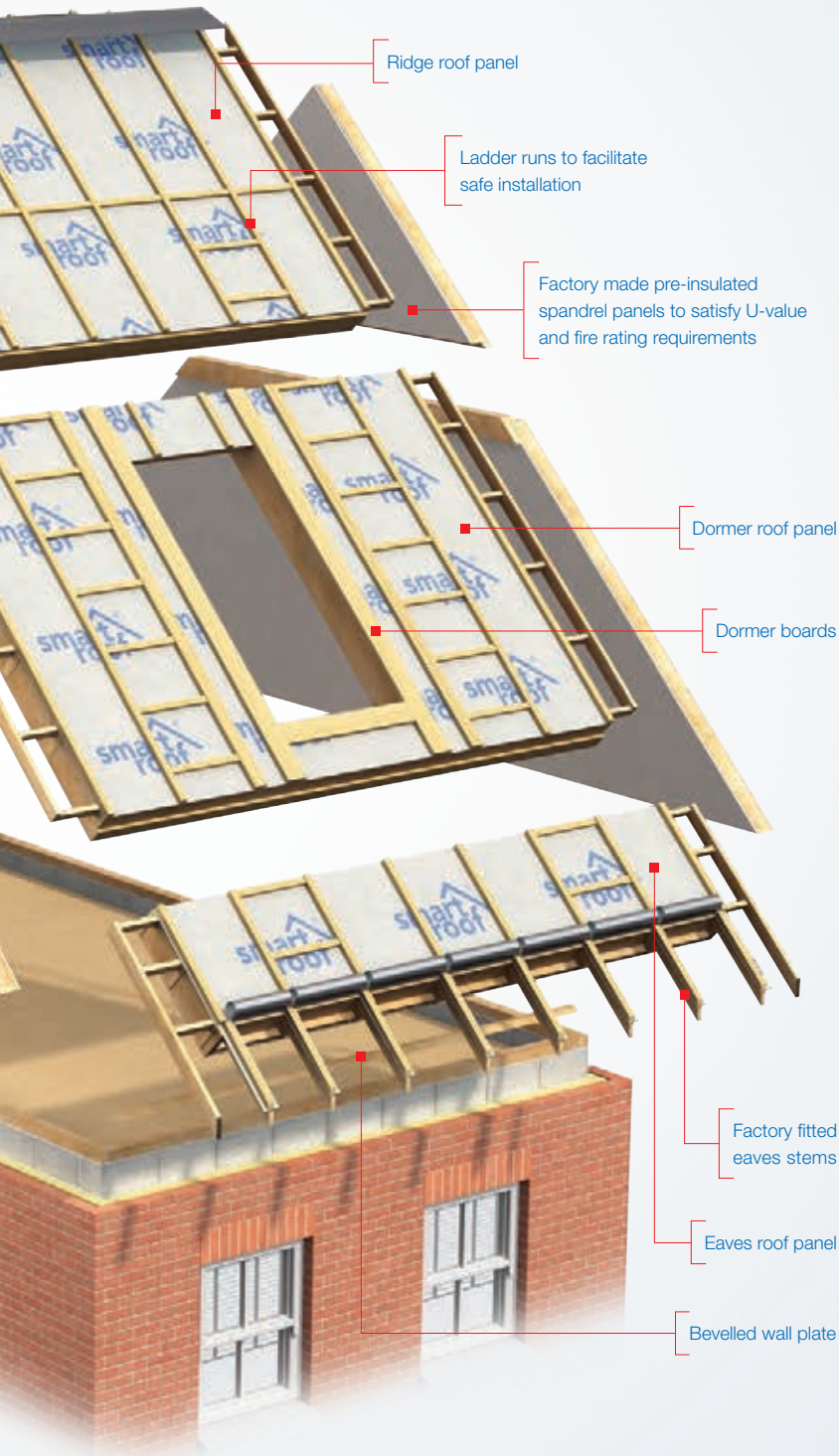
### **Safe Installation**

The first roof panels are installed at the eaves which adds extra bracing to the overall structure between spandrels as soon as they are landed.

### **Speed of Installation**

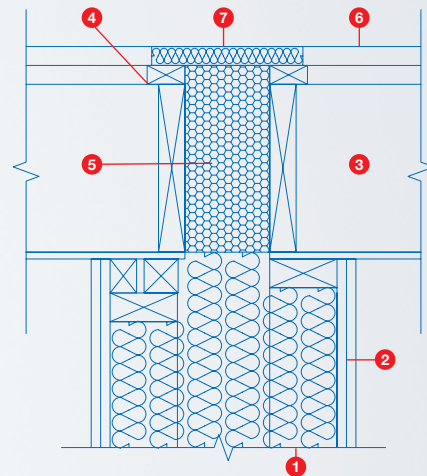
Typically there would only be 3 panels on each side of the roof (eaves panel, dormer or roof window panel and ridge panel), this enables a fast installation with reduced lifts required onsite.





## Standard Details

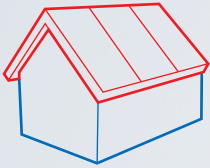
The Smartroof system comes with an approved list of standard details covering all junctions and connections required. Please see below an example of the Smartroof party wall detail.



- 1 38 x 89mm CLS stud insulated spandrels
- 2 2 layers 12.5mm plasterboard
- 3 47 x 222mm TR26 rafters
- 4 25 x 50mm C16 battens
- 5 Cavity closer
- 6 Roofing battens
- 7 Wire reinforced mineral wool between battens (provided by tiler)







## Smartroof Range Eaves to Ridge

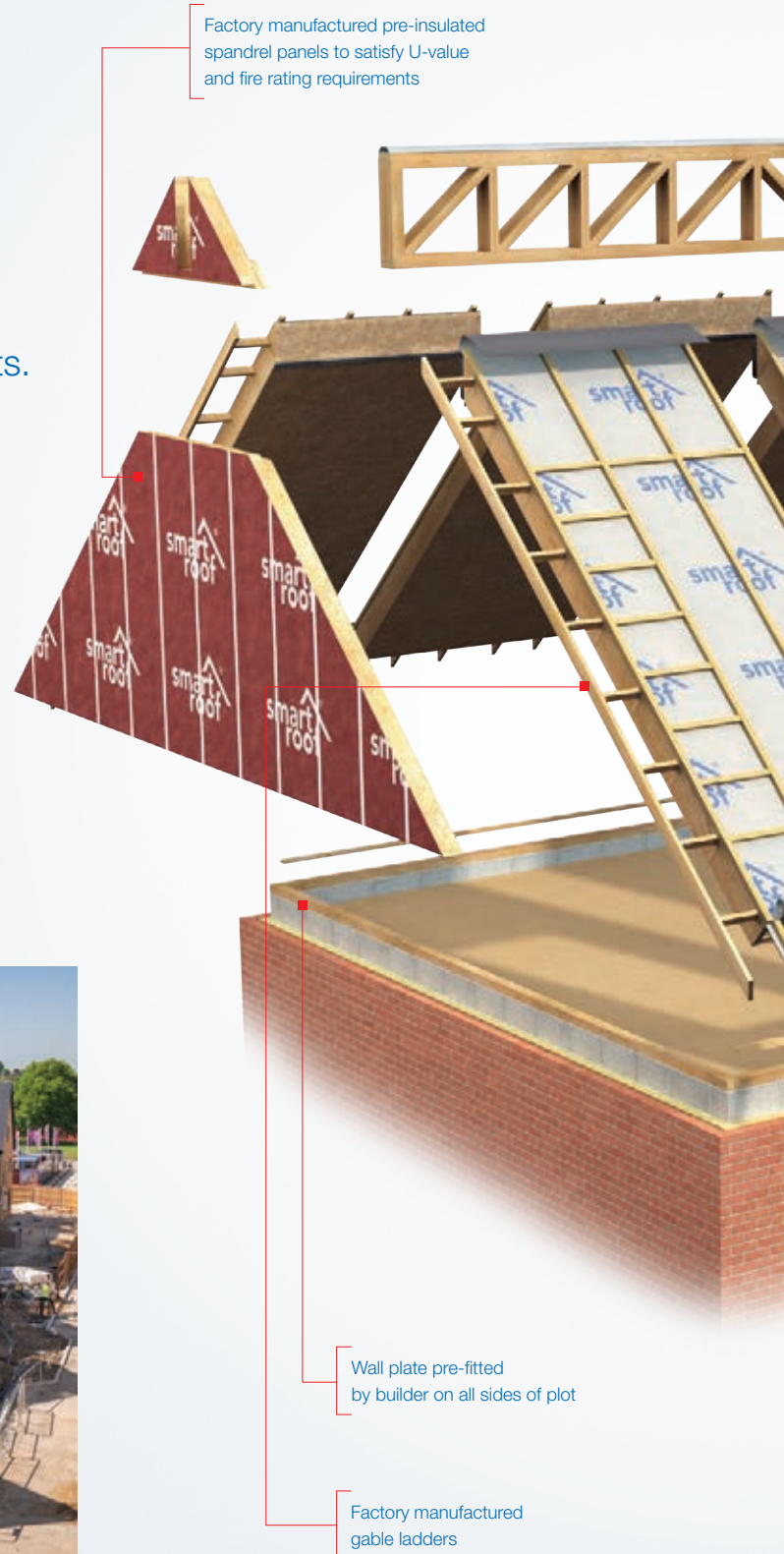
The Eaves to Ridge Smartroof system is a panelised cassette system, engineered to ensure optimum performance to satisfy structural, thermal and fire rating requirements.

This type of roof is typically used where the span, from gable to gable, is greater than 5.6m. This roof, similar to the gable to gable panels, can also be designed to achieve specific U-values required by the house builder.

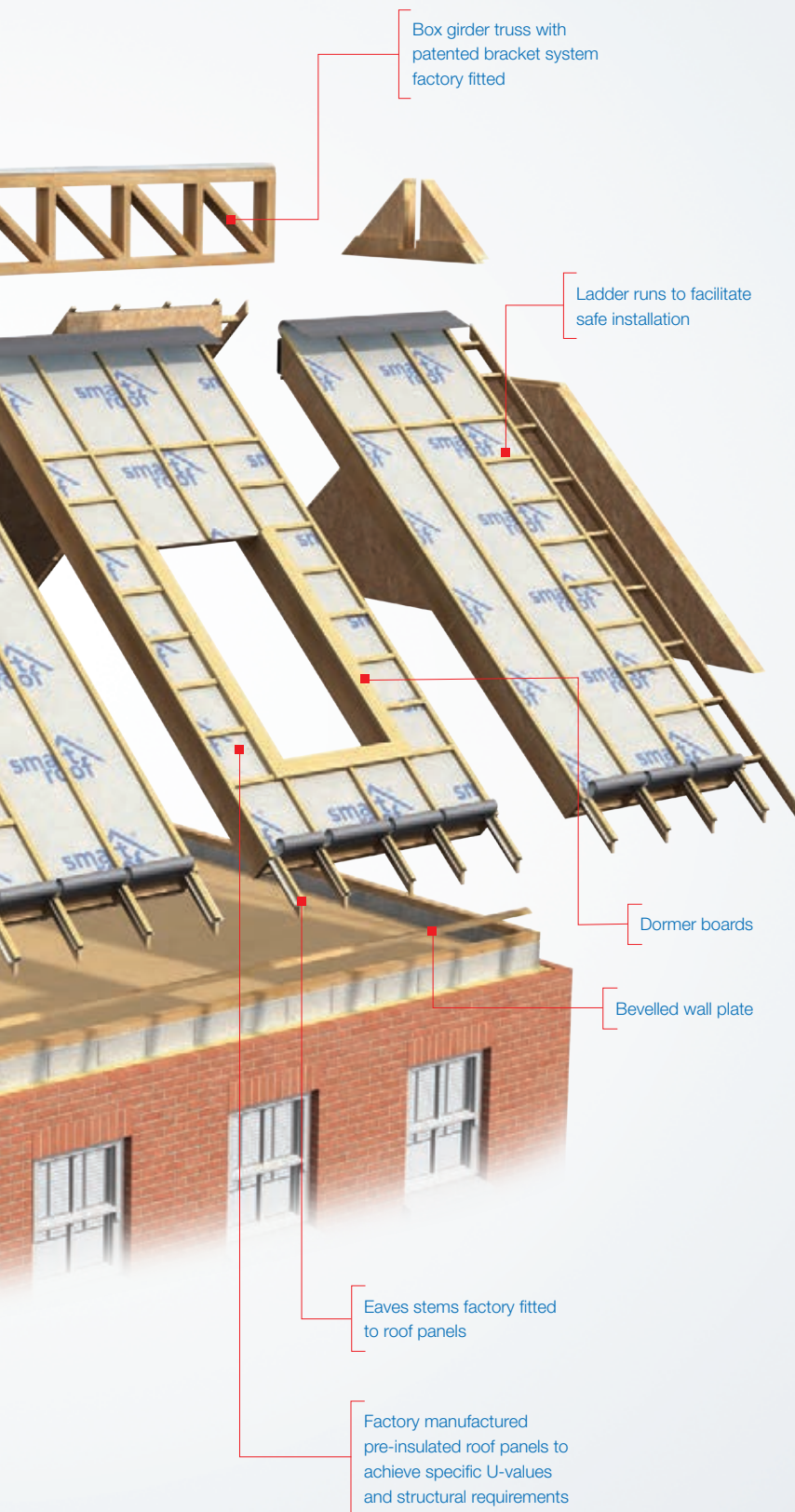
The Eaves to Ridge roof incorporates a timber or steel ridge beam (Ridge Support System) and / or intermediate purlins (Purlin Support System) running from gable to gable.

### Ridge Support System

This type of roof support system includes either a timber beam, as detailed in exploded view, or steel beam at the ridge. The roof panels are connected to this beam via a patented bracket system to aid speed of installation.

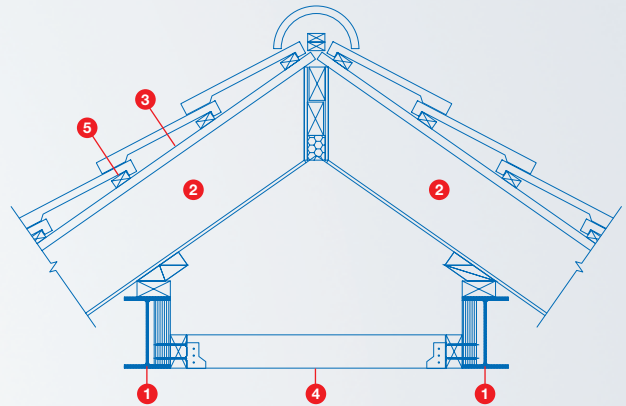






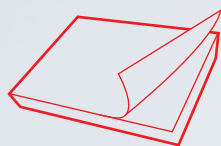
### Purlin Support System

Where increased head height is required for an eaves to ridge roof system high level purlins can be used as indicated on the approved standard detail below.

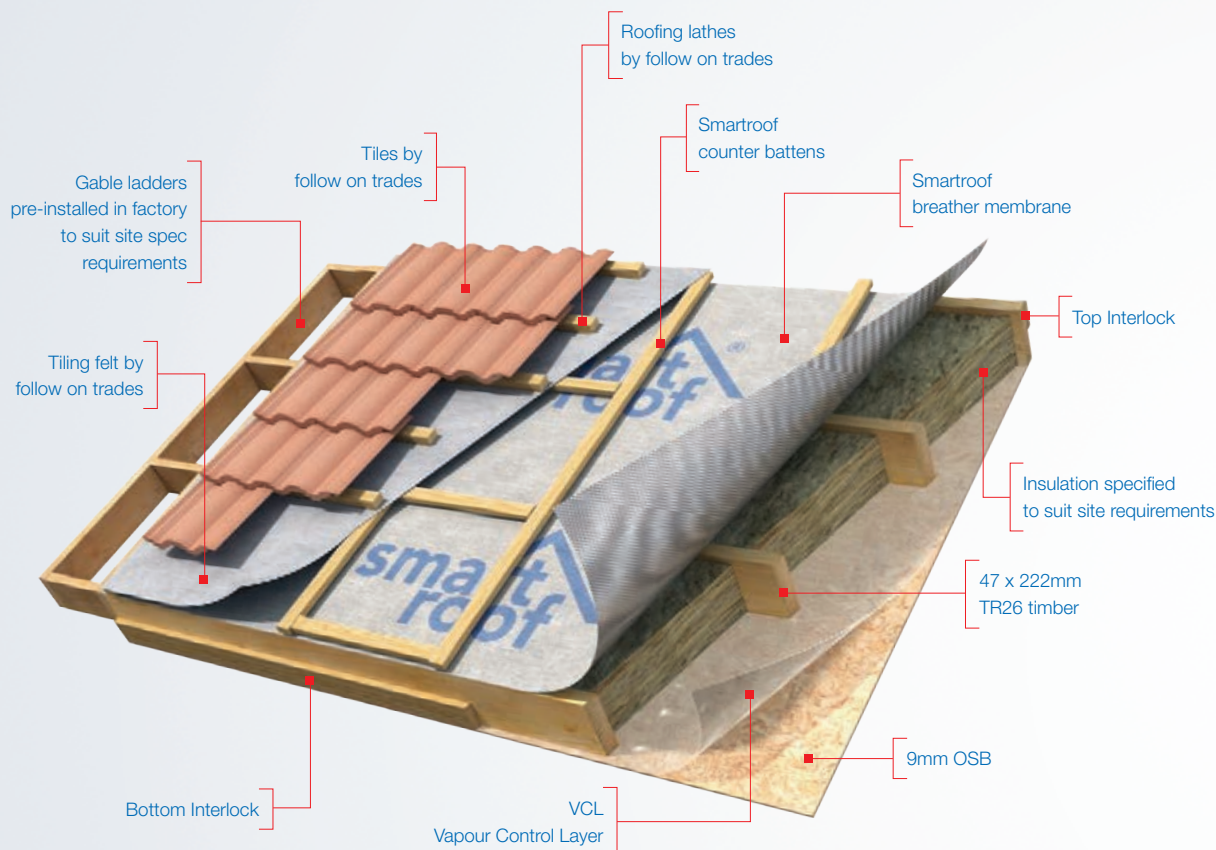


- 1 Steel purlins as per structural engineer's specification
- 2 47 x 222mm TR26 rafters
- 3 25 x 50mm C16 battens
- 4 Ceiling joists
- 5 Roof battens





## Smartroof Range Panel Options

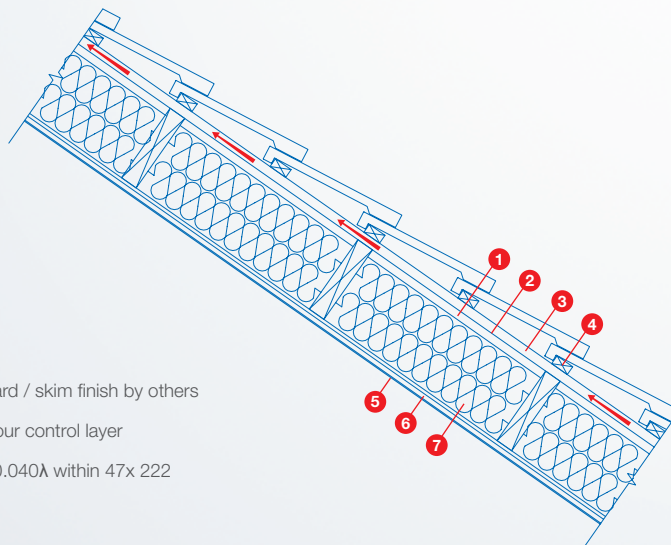


## Panel Construction & Options

Smartroof Panels can be manufactured to the U-values required for your Room in Roof. Typical standard U-value requirements range from 0.16 W/m<sup>2</sup> - 0.2 W/m<sup>2</sup> but any U-value can be achieved.

### Roof Cassette Standard Details

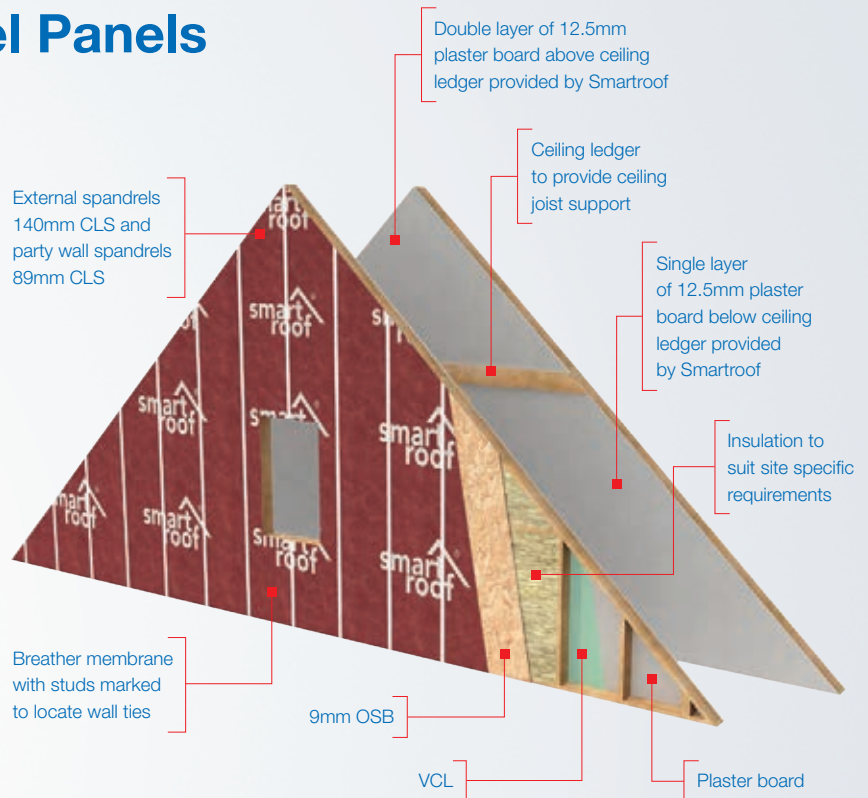
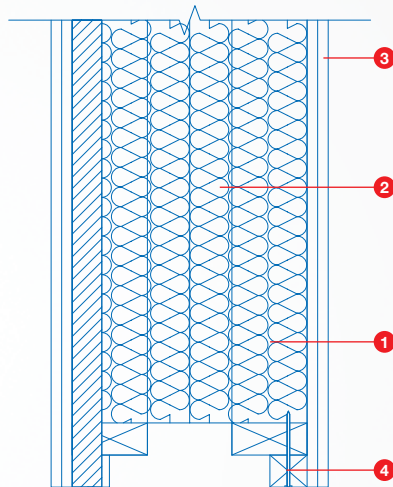
- |  |   |
|--|---|
| 1 22mm Low-e airspace                                | 5 12.5mm Plasterboard / skim finish by others               |
| 2 Smartroof reflective membrane                      | 6 9mm OSB, on vapour control layer                          |
| 3 25x50 C16 Battens: factory fixed: 25mm Ventilation | 7 200mm Insulation 0.040λ within 47x 222 TR26 roof cassette |
| 4 Roofing felt / lathes / covering by others         |   |







## Smartroof Range Spandrel Panels



### Spandrel Panel Standard Details

Smartroof has a range of standard details for all spandrel requirements.

#### Spandrel Panel Range

- 1** 38 x 89mm CLS Stud insulated panels
- 2** Breather membrane encased insulation cushions butting together, fully filling the cavity
- 3** 2 Layers 12.5mm Plasterboard, factory installed with staggered joints
- 4** Interlock system

### Spandrel Construction & Options

Smartroof spandrels can be designed and manufactured to achieve the required U-values and fire ratings onsite. All Smartroof spandrels comply with Robust standard details.

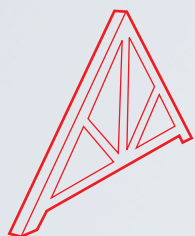
Smartroof spandrels at external gable ends are typically specified to achieve an overall U-value of 0.2 W/m<sup>2</sup> - 0.3 W/m<sup>2</sup>.

For party wall spandrels, when the cavity is fully filled with insulation the U-value achieved is 0 W/m<sup>2</sup>.

### Spandrel Panels for Cold Roofs

Smartroof can also manufacture Spandrel Panels for traditional cold roof requirements. Spandrel panels are often used to replace the need for masonry walls. Similar to the Smartroof system, spandrel panels have many advantages including no wet trades above roof wall plate height, quicker build time and less time working at height.

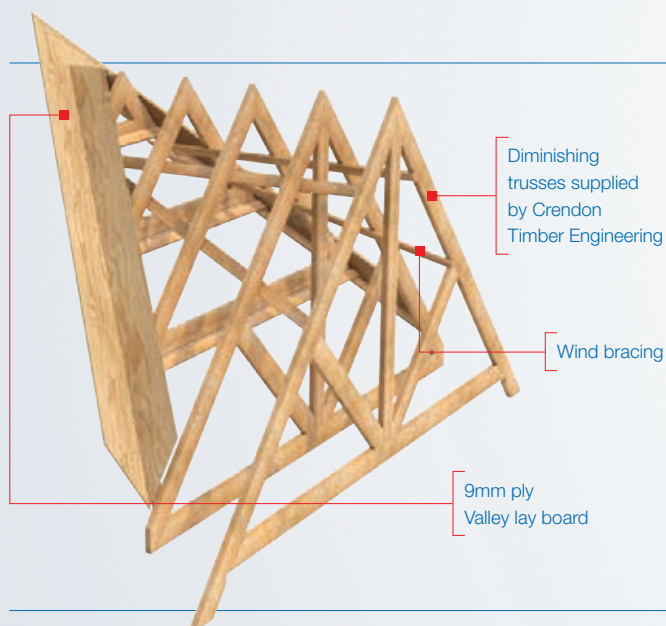
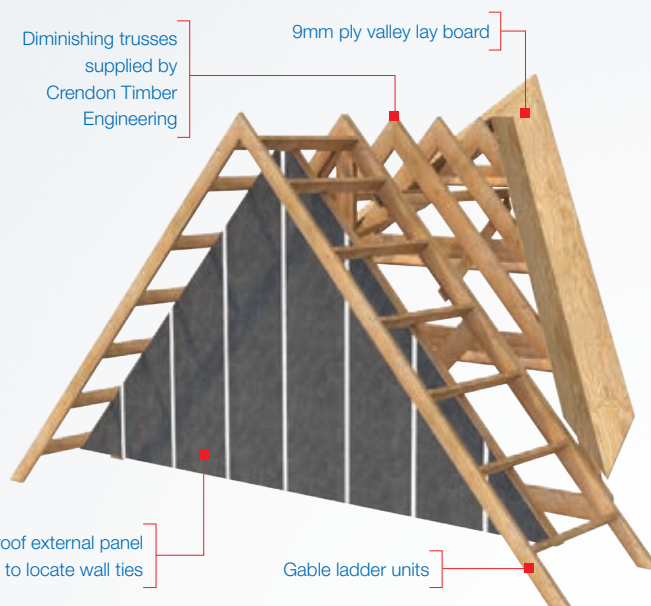




## Smartroof Range Additional Features Cold & Warm Roof Pediments

### > Front Pediments

Smartroof can accommodate front pediment design requirements with bespoke infill panels or reducing trusses as required.

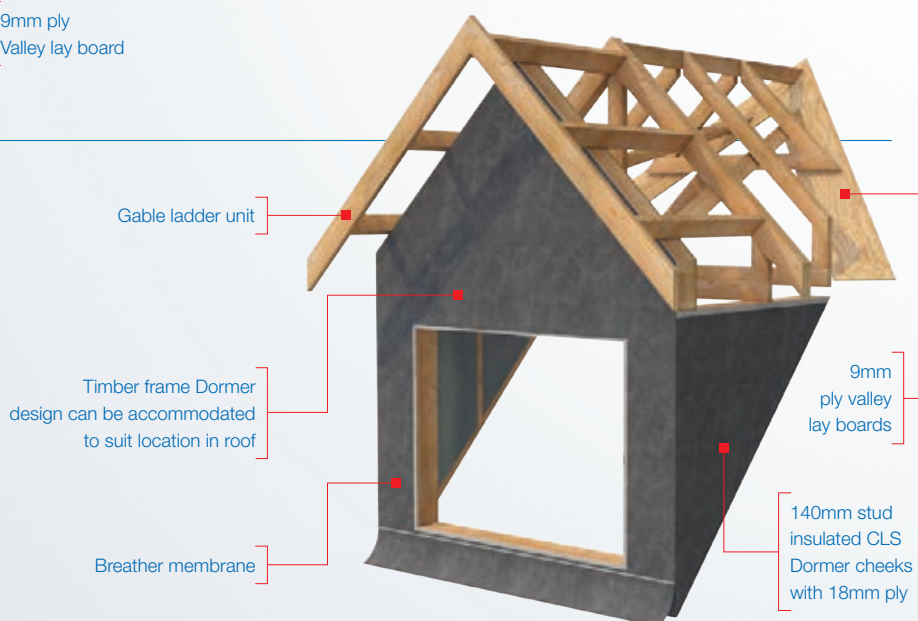


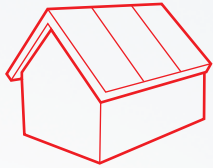
### < Reducing Valley Truss Sets

Smartroof can design and install reducing valley sets to help ensure the roof is ready to tile by follow on trades.

### > Timber Dormers

Where timber dormers are preferred over GRP dormers Smartroof can design, manufacture and install as required.



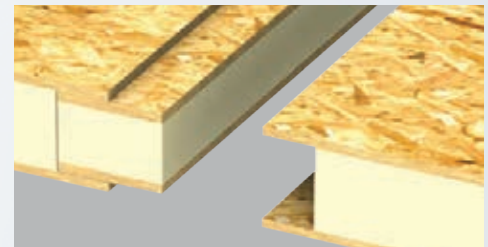


## Smartroof Range **Smart Suite**

The Smart Suite incorporates a Structurally Insulated Panel System (SIPS) structure which can be used at the early stages onsite to promote house sales. The product benefits from all the advantages of timber frame construction eliminating many of the issues experienced with selling in the early stages of a development. The suite can then be easily converted into a garage or disassembled and erected on a new development as required.



Structural Insulated Panels (SIPS) are a high performance building system for residential and light commercial construction. The panels are a composite panel of Oriented Strand Board (OSB) with a core of rigid structural insulation offering an improved 'thermal-performance-to-wall thickness' ratio.



Traditionally built marketing suites can be a slow build process and can delay the beginning of marketing and ultimately sales activity. A traditional build is also often required to be knocked down and rebuilt elsewhere on the site, making the process more expensive and labour intensive.

Ultimately the Smart Suite helps the builder to get on site and sell their houses faster. The development of this product has spurred further research and development across the Keystone Group in a move towards a full offsite house solution - Keyhouse.

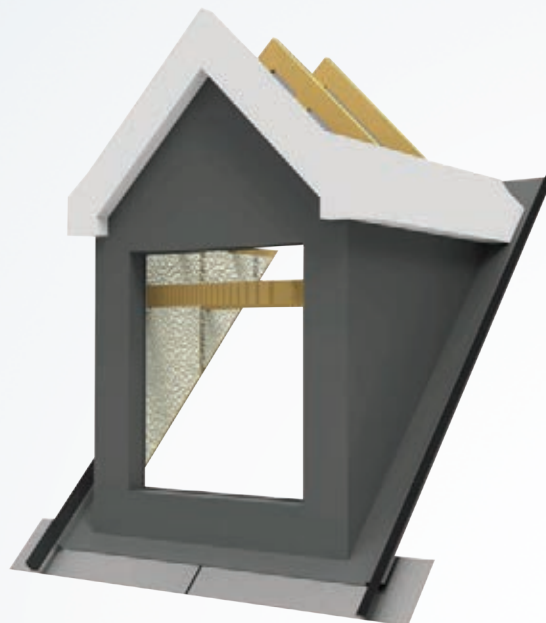
## Smartroof Accessories

### Dormers

Dormers can be provided through our sister company, IG Elements. These can range from Apex, Flat Roof, Ready to Tile and can come complete with a GRP tile effect roof to match the existing roof finishes. All Dormers are fully insulated to meet current standards and include structural internal framing.



GRP dormer options



Apex Dormer



IG Elements Support  
**01283 552 205**



Elements

### Chimneys

GRP Chimneys are also available from IG Elements. These are available in brick or rendered finish to suit requirements onsite. The Brick Finish Stack is supplied to match existing brickwork. IG Elements offers a standard range of brick colour finishes, pot options and also the chimneys can be supplied with different fixing options to suit all budgets.



GRP rendered chimney options



Brick Finish Stack



IG Elements Support  
**01283 552 205**



Elements



## Roof Windows

Keylite Roof Windows, also part of the Keystone Group, can be included as part of the Smartroof package. Keylite offers a full range of roof windows, flashings, electric operation kits, loft ladders, blinds and accessories. The latest Keylite Polar White uPVC Roof Window range combines innovative design with the latest in material technology and precision manufacturing.



Polar White PVC Roof Window



Conservation Roof Window



Centre Pivot Pine Roof Window



Keylite Support  
**01283 200 158**



## Plastics

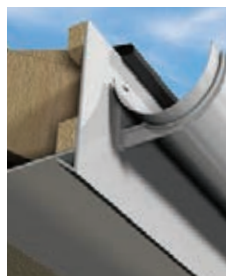
Smartroof can supply all plastics for your build including Over Fascia Vent, Double Vented Soffit and Standard Fascia and Soffit. These can also be supplied through your preferred plastics supplier.



Over Fascia Vent



Double Vented Soffit



Standard Fascia & Soffit



# Become a Smartroof Installer

## Become a Smartroof Registered Installer in four easy steps:

1

Smartroof will visit your site to discuss full installation process from pre-start requirements to final sign-off.



2

Accompany Smartroof team on first installation of your roof.



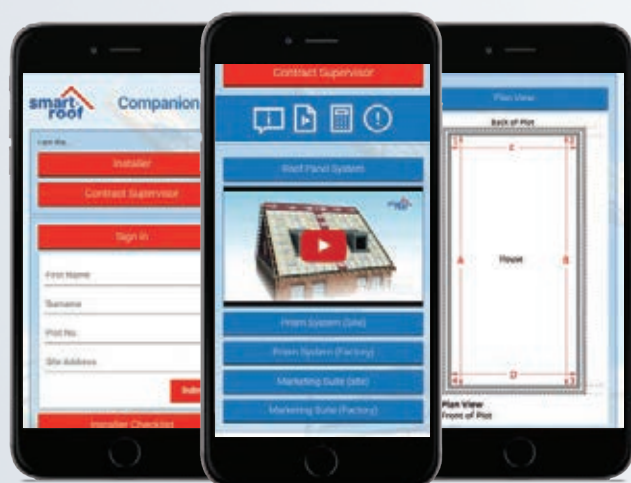
3

Install your own Smartroof system with supervision from Smartroof contracts manager.



4

Receive certificate to confirm Smartroof Registered Installer status.



## Smartroof Installation App

In addition, a new mobile app is available for the installation teams which helps ensure compliance to quality and health and safety standards throughout the entire Smartroof process from pre-start to final sign-off.

These reports are automatically sent to the site manager for their records and also logged at Smartroof head office.



Smartroof Support  
**01283 200 199**

## Minimum requirements to become a Smartroof Registered Installer:

### Certified Installers

All Smartroof installers are subject to ongoing random site checks to assist us in maintaining the highest possible standards and support.

- 1 Comply with Smartroof Risk Assessment & Method Statement (RAMS)
- 2 Suitable qualifications:
 

The Smartroof system can be installed by a team of 3, all with suitable harness training and CPCS certification

  - Crane Appointed Person (if no CAP, contract lift must be provided through crane company)
  - Crane Supervisor
  - Slinger Banksman



**Supply & Fix works**  
**Certificate of completion**

**smart roof**  
Registered Installer

THIS FORM IS TO BE COMPLETED AND RETURNED TO SMARTROOF LTD ON COMPLETION OF ALL WORKS ASSOCIATED WITH THE INSTALLATION OF THE SMARTROOF® PACKAGE.

Contractors Name: \_\_\_\_\_ Port No: \_\_\_\_\_  
 Site Name: \_\_\_\_\_ Date: \_\_\_\_\_  
 Site Address: \_\_\_\_\_ Comments: \_\_\_\_\_

Keyline Woods & Planning Kit is handed over to main contractor

Installation Completed By: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Print Name: \_\_\_\_\_

Countersigned by the site manager: \_\_\_\_\_ Date: \_\_\_\_\_

smartroof.co.uk

### Smartroof Customer Support Pack

The new Smartroof Customer Support Pack has been designed with house builders in mind. Each stage of the Smartroof process is covered meticulously, from the call-off process right through to post installation checks and after-sales support.



Smartroof Support  
**01283 200 199**




**Post Installation Quality Assurance**  
**Contact Supervisor Spot Checks**

**smart roof**

After installation, the quality of the installation must be checked by a Smartroof Supervisor. This form is to be completed and returned to Smartroof Ltd on completion of the installation.

Contract Name: \_\_\_\_\_ Date: \_\_\_\_\_

Project Name: \_\_\_\_\_

**Inspection Points**

Inspection Point	Yes	No	Notes
1. All components are installed correctly.			
2. All components are installed in the correct location.			
3. All components are installed in the correct orientation.			
4. All components are installed in the correct sequence.			
5. All components are installed in the correct manner.			
6. All components are installed in the correct position.			
7. All components are installed in the correct direction.			
8. All components are installed in the correct way.			
9. All components are installed in the correct order.			
10. All components are installed in the correct place.			

**Working Sheet**

1. All components are installed correctly.

2. All components are installed in the correct location.

3. All components are installed in the correct orientation.

4. All components are installed in the correct sequence.

5. All components are installed in the correct manner.

6. All components are installed in the correct position.

7. All components are installed in the correct direction.

8. All components are installed in the correct way.

9. All components are installed in the correct order.

10. All components are installed in the correct place.

smartroof.co.uk



# Lovell Homes

Eaves to Ridge Smartroof System  
with Timber Dormers & Front Pediment







**Builder**  
Lovell Homes



**Site**  
Heath Farm, Holt Plots 200 & 205



**Architect**  
Chaplin Farrant Limited



**Health & Safety**



**Speed of Construction**



**Cost Certainty**



**Consistent Quality**



**The Complete Package**

## LOVELL HOMES

Lovell Homes previously used traditional methods in the construction of its three storey homes in a process involving masonry gables, attic trusses and hand cut pediments. The Smartroof system was installed in 1 day.

Maintaining maximum site safety was a concern due to the extensive working at height plus the risk of collapse of masonry gable walls during installation. Mitigation methods for these safety issues required the use of both internal and external scaffolding with associated costs. The Smartroof installation process eliminated these risks.

I was very impressed with the entire Smartroof process from design to installation and I will definitely use the system on future projects.

**Chris Nelson**  
Contracts Manager  
Lovell Homes



# Redrow

## Eaves to Ridge Smartroof System

I am pleased to say that from the feedback I have received from the Redrow North West Construction Team, they were very impressed by the installation team. The design department also played their part in getting the production drawings completed.

**Jon Moss**

Research and Sustainability Manager  
Redrow







**Builder**  
Redrow



**Site**  
Penrhos Road, Bangor, Gwynedd



**Architect**  
Redrow North West Architect



**Health & Safety**



**Speed of Construction**



**Cost Certainty**



**Consistent Quality**



**The Complete Package**

## REDROW

Redrow coastal development in Bangor, North Wales provided a tough challenge for their North West team. Strict regulations for coastline construction meant there were a limited number of days for building work to be carried out. Smartroof offered Redrow the fastest solution on the market.

Produced offsite and installed in hours, Smartroof's insulated roof panel system delivered major benefits to Redrow in terms of site safety, thermal performance, quality assurance and crucially, speed of construction.



# Taylor Wimpey

## Eaves to Ridge Smartroof System





At Taylor Wimpey, we have been able to reduce build times as a result of installing Smartroof's Room in Roof system in our developments.

**Thomas Cox**  
Commercial Manager  
Taylor Wimpey North Midlands



**Builder**  
Taylor Wimpey



**Site**  
Tolworth Square, North Surbiton



**Architect**  
AAP Architecture Limited



**Health & Safety**



**Speed of Construction**



**Cost Certainty**



**Consistent Quality**



**The Complete Package**

## Taylor Wimpey

The development consists of a mixture of large detached, semi-detached, 3 and 4 block houses. There are also a combination of roofs with Smartroof running into traditional truss plots and a mix of gable to gable and eaves to ridge systems.

To overcome the challenges of the tight site, Smartroof delivered their products with the use of smaller rigid vehicles and smaller 40 ton city cranes.

# What our customers have to say.



**Matthew Williams**  
Director  
HGP Architects

I was extremely impressed with the build speed, health & safety onsite as well as the thermal properties of the product.



Smartroof has been supplying our sites for the past number of years for our Room in Roof requirements with a mixture of gable to gable and eaves to ridge roof systems. **Smartroof consistently performs in terms of customer service, efficiency and roof quality.** The Smartroof is delivered to site and installed in just one day offering us certainty on completion times. Smartroof's supply and fix complete package including IG Elements Dormers and Keylite Roof Windows offers cost certainty on the roof element of our houses.

**Chris Burton**  
Group Commercial Director  
Bloor Homes



We have been using Smartroof on Chase Farm, Gedling and Meadow Lane, Brookvale over the past year. **The service from Smartroof is fantastic and Keepmoat have an excellent relationship with both Commercial and Design divisions.** They have even helped us out on numerous occasions with very short lead times to help us meet build programme deadlines.

We were particularly impressed with the speed of construction of the Smartroof system with delivery and installation complete on the same day. Production of the system offsite means less vehicle movements onsite, reduced handling of materials and eliminated time working at height and risks associated with gable walls and falling blockwork.

**Lee Parry**  
Construction Director  
Keepmoat



“

Smartroof consistently perform in terms of customer service, efficiency and roof quality.

**Chris Burton**  
Group Commercial Director  
Bloor Homes

”



**HGP**  
ARCHITECTS

“

Smartroof provided me with roof panels, spandrel panels and brick slip chimneys for a recent project. **I was extremely impressed with the build speed, health and safety onsite as well as the thermal properties of the product.** Adopting a fabric first approach to building has never been more important. Smartroof provided me with a cost effective solution to increasing SAP performance. In addition to roof performance, the ability to control costs onsite is vital and Smartroof offers cost certainty compared with traditional build, which requires multiple materials, trades and hire services.

**Matthew Williams**  
Director  
HGP Architects

**Taylor**  
**Wimpey**

“

Smartroof has been supplying our sites in the North Midlands region with all our Room in Roof requirements. **We have a fantastic working relationship with Smartroof and feel they excel both on product and customer service.** At Taylor Wimpey, we have been able to reduce build times as a result of installing Smartroof's Room in Roof system in our developments. We were delighted with the speed at which the system was installed and at the quality of the finished product. The system provided many benefits with no downtime between multiple trades and reduced health and safety risks onsite.

**Thomas Cox**  
Commercial Manager  
Taylor Wimpey North Midlands

## Keystone Group Timber Businesses

As part of the Keystone Group, Smartroof can provide the complete Timber package with sister companies, Wyckham Blackwell, Timber Innovations and Crendon Timber Engineering.



### Wyckham Blackwell

Wyckham Blackwell started business in Hampton-in-Arden in 1884. Beginning initially as a home grown timber merchant the company has evolved through saw milling, fencing, specialist joinery and merchanting to become a true specialist in timber engineered products, providing a total package to service the industry.



Wyckham Blackwell  
**01675 442 233**





## Crendon Timber Engineering

Crendon Timber Engineering, operating from 8 sites nationwide, offer a range of engineered wood products (EWP), from carefully selected supply partners, for floor and roof applications in both housing and commercial markets.



## Timber Innovations

Timber Innovations is a specialist Timber Frame manufacturer based in the West Midlands, providing the design, manufacture and installation of Timber Frame, SIPs and Oak Frame dwellings nationwide.

Timber Innovations expertise also extends to roof trusses / panels and engineered floors. All dwellings are constructed using high performance and thermally efficient materials.





# We listen to our customers.

To ensure we continue to  
develop our products and service,  
we welcome your feedback.

If you would like further information  
on the Smartroof product range  
please contact us.



Smartroof Support  
**01283 200 199**



Contact  
**info@smartroof.co.uk**

## Need to know more?

To find out more about Smartroof  
or to read our full terms & conditions  
please visit [smartroof.co.uk/files/  
terms\\_conditions.pdf](https://smartroof.co.uk/files/terms_conditions.pdf)

■ Crendon  
Timber Engineering

■ Wyckham Blackwell  
Timber Engineering

■ Timber Innovations

### 1 Smartroof Swadlincote

Ryder Close  
Cadley Hill Industrial Estate  
Swadlincote, South Derbyshire  
DE11 9EU

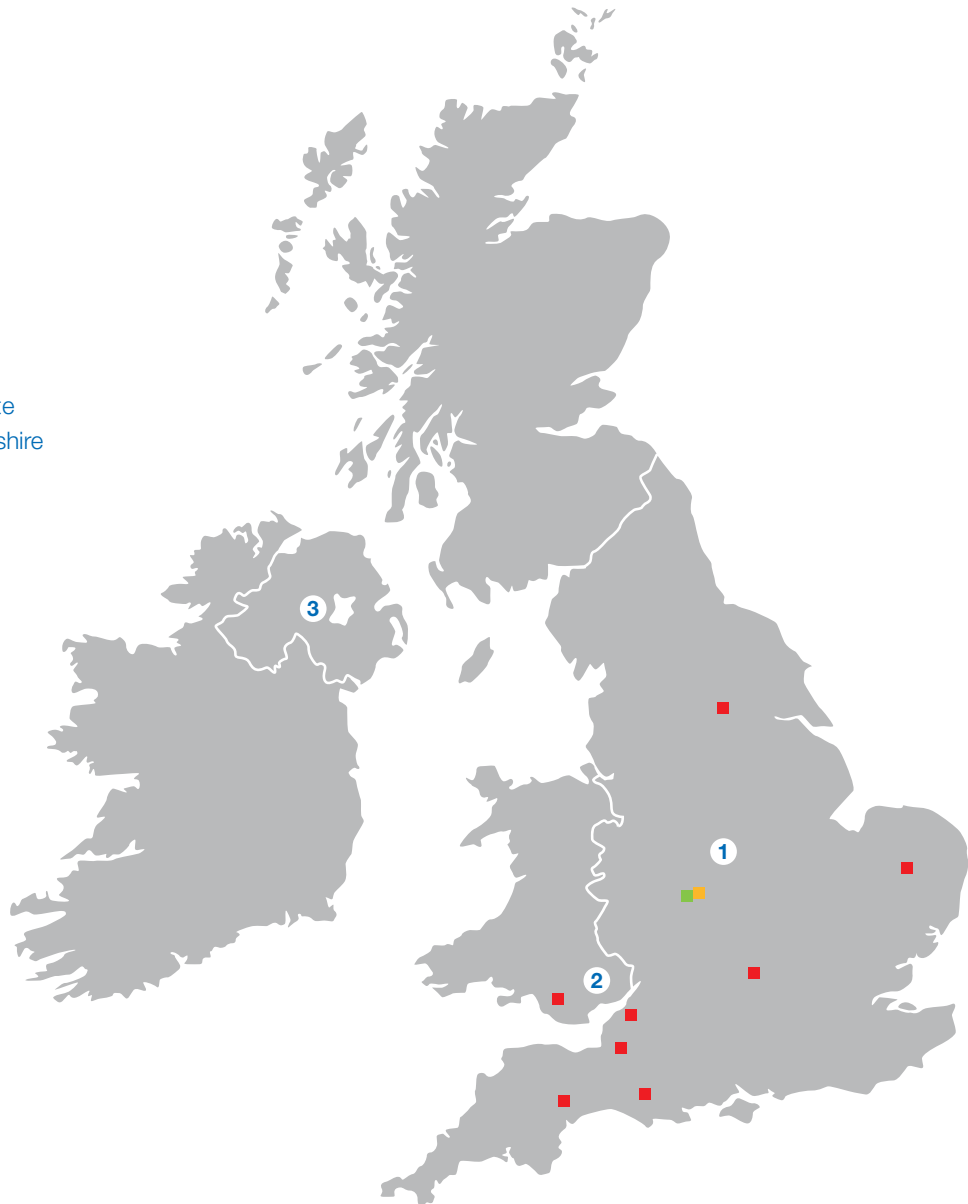
### 2 Smartroof Cwmbran

Avondale Road  
Cwmbran, Gwent  
NP44 1XY

### 3 Smartroof Cookstown

Ballyreagh Business Park  
Cookstown, Co. Tyrone  
BT80 9DG

T 01283 200 199  
E [info@smartroof.co.uk](mailto:info@smartroof.co.uk)



Highly Commended



Housebuilder  
Product Awards

Highly Commended



Housebuilder  
Product Awards

Winner



Housebuilder  
Product Awards

Winner



Build It  
Awards

Winner



Structural Timber  
Awards