

Questions & Answers



rethinking roof construction

What is unique about smartroof?

smartroof's unique feature is its patented gable to gable spanning panels. These eliminate the requirement for steel beams or purlins, and smartroof's prefabricated 'spandrel panels' replace blockwork gables. smartroof's design creates a 100% usable space and greater flexibility for roof light & dormer positioning.

Are there any design limitations for the use of smartroof?

The system is limited to a maximum 45 degree roof pitch and a maximum panel span of 6000mm over supports. House widths greater than 6000mm are designed with an intermediate spandrel panel.

Is smartroof approved?

Yes, smartroof has all relevant accreditations including Robust details and NHBC.

What U values can be achieved?

The current standard panel achieves 0.20 U value, although solutions are available that range down to 0.09 U Value.

Is smartroof environmentally friendly?

Yes, the timber used is from sustainable managed forests and the panel construction meets BRE green guide A+ rating.

What is the smartroof panel construction?

The panel consists of a stressed skin continuous sheet of OSB3 (Oriented strand board), Polythene Vapour barrier, timber frame, filled with insulation, closed with a breathable membrane with 35mm counter battens fitted.

Can you make apertures through the smartroof panel for services?

Yes, up to 6" (150mm), ensuring the timber frame members are not cut. All proposed apertures should be approved by a smartroof designer.

Is there an internal ceiling?

smartroof creates a completely open roof space to the ridge. A ceiling can be provided, which is a non-structural element to the smartroof system (this is not required to be insulated).

Who makes smartroof?

smartroof is manufactured under licence by leading timber engineering companies. Please refer to our manufacturers' page on our website www.smartroof.co.uk or contact us for our list of current licensees.

What lead in time is required for delivery?

Typically 3 to 4 weeks as with traditional roof trusses, but always liaise with your manufacturer.

How is it delivered?

Typically a pair of smartroofs can be delivered complete with spandrels on one trailer, on the day of the installation. If more than one pair of smartroofs, then the smartroof panels are delivered one or two days before with the spandrel panels again being delivered on the day of the installation.

What Health & Safety is associated with the delivery?

All smartroof panels and spandrel panels are loaded and strapped to ensure that there is no requirement for any personnel to gain access to the trailer. This is achieved via the use of sacrificial straps that are cut by the driver at ground level. We can provide generic method statements and risk assessments.

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How are panels loaded on the delivery trailer?

The licensed manufacturer will stack the smartroof panels to suit the order in which they will be installed.

How quick is an installation?

Typically up to 3 units in one day.

Who can install smartroof?

smartroof can be installed by any registered installer. Your own carpenters can become registered installers by completing the free training course provided by smartroof Ltd, which is carried out in half a day. smartroof Ltd will then provide on site assistance and technical support to ensure work is carried out to the relevant standard.

Are there any benefits of being a registered installer?

Yes:

- It is the only permissible way smartroof can be installed
- Installer details can be accessed by the licensed manufacturers and clients for prospective installation work
- They are updated on technical, research, and development news of smartroof.

What is the size of an installation team?

The team would normally consist of 4 carpenters, one of whom would be a trained banksman.

What is typically included in a smartroof package?

Everything above wall plate to complete a smartroof installation:

- smartroof panels
- Spandrel panels
- Apex frames
- Where applicable: Party wall spandrel, gable frame material, steps & stagger frames, ceiling joists & hangers, fire stop sock for party wall.
- Spandrel fixing straps, eaves fixing plates, joint sealant tape and screws
- Flashing tape for ridge
- Loose breather paper for ridge
- Loose insulation for ridge & eaves
- Construction drawings

What is typically excluded from a smartroof package?

- Wallplate & straps, GRP dormers (timber dormers available as extra over cost from manufacturer), GRP chimneys, roof lights, sun pipes, fascia and soffit, and barge board.

What is required prior to an installation?

Superstructure to required level, wallplate fitted and strapped, mortar cured, cavity socks fitted, scaffolding in place with gable table lift, stairwell opening protected. Also to maximise the efficiency of the smartroof installation we recommend that dormers, roof lights, dummy chimneys etc are on site and ready to be installed (where applicable).

Are there changes to works for follow on trades?

Roof tiling is done as with traditional roof constructions; using a breathable felt or venting, tile battens, and roof tiles. smartroof panels are factory fitted with a 35mm counter batten to create an airflow void. Bricklayers would use screw-in frame-wall ties at gable ends to tie the brickwork to the spandrel panel. Plasterers would screw fix plasterboard to spandrel panels where applicable, rather than applying dabs to blockwork.

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