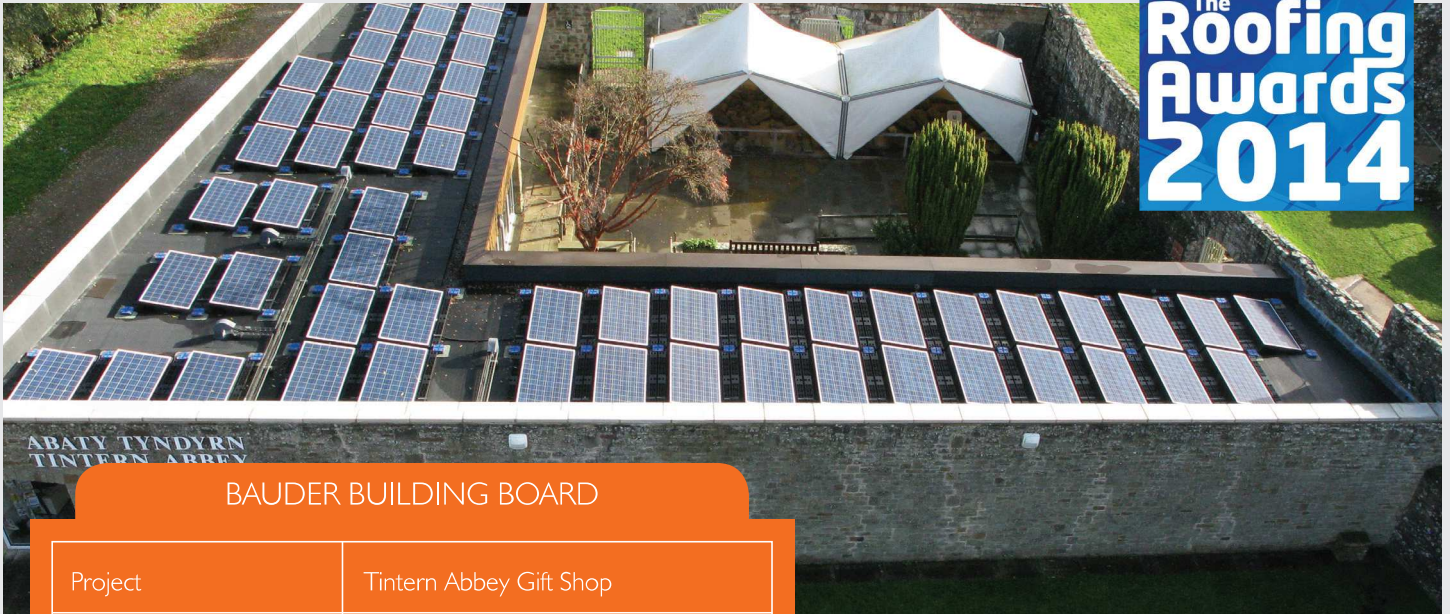


# TINTERN ABBEY GIFT SHOP



## BAUDER BUILDING BOARD

Project	Tintern Abbey Gift Shop
Investor	Cadw (Welsh Historic Monuments)
Location	Tintern, Wales
PV Roof Area	630m <sup>2</sup>
Specifier	OPUS Ltd
Roofing Contractor	J Randall Roofing
PV & Electrical Installer	J Randall Roofing

## APPLIED PRODUCTS

- Bauder Total Roof System is a premier bituminous system with a life expectancy in excess of 40 years.
- Bauder Tapered PIR Insulation is extremely efficient and shaped to create effective drainage falls.
- The BauderSOLAR SOLfixx Plus system was installed with 57 PV modules being fitted.



The brief for this project was to not only repair the failing roof, but to bring the abbey to the forefront of modern-day roofing technology with the installation of a state-of-the-art photovoltaic (PV) system. Given these requirements, BauderSOLAR's innovative PV solution, SOLfixx Plus, was a natural choice.

## TINTERN ABBEY GIFT SHOP

Situated in the picturesque village of Tintern in Monmouthshire, the Cistercian abbey is one of the most historic monastic ruins in Wales. In 2013 work started at the abbey to replace the roof of the gift shop, which had exceeded its serviceable life.

This unique system allows for web-based monitoring of the individual PV modules, identifying any irregularities and increasing output by up to 25 percent. This is particularly beneficial on partially shaded roof areas, like the one at Tintern where nearby trees cast a shadow over the PV area but cannot be removed due to preservation regulations.

Roof areas totalling 630m<sup>2</sup> were fitted with 57 PV Modules, enabling the abbey to generate at least 14.05 Megawatt Hours of solar power each year. The simplicity of the installation also meant that the entire array could be fitted in just one day to the client's exact specifications. Since the installation the abbey has been recognised by many award-giving bodies for its sustainability, most notably winning the solar category at the NFRC's 2014 Roofing Awards.

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