

## CASE STUDY

# CRICHTON CASTLE

Remote 14<sup>th</sup> Century castle will be protected through the 21<sup>st</sup> Century by mastic asphalt



**Crichton Castle is a Grade A Listed Building and Scheduled Monument that occupies a dramatic rural setting at the top of a steep slope overlooking the River Tyne in Scotland.**

This moorland location provided the first major obstacle that award winning Lenaghen Roofing Services had to overcome during the roof renewal as the building is only approachable via a rutted track, which made getting materials and equipment to the site extremely difficult.

The second obstacle that Lenaghen had to contend with was finding a roofing material that would successfully integrate with the original building and its surroundings. Parts of the castle date from the 14<sup>th</sup> century, when a single tower was built by the Crichton family. The castle later passed into the hands of the Earls of Bothwell and in the 1580s, Francis, the Fifth Earl of Bothwell, extended and embellished the estate in the Renaissance style which he had encountered during travels in Europe.

Although now a ruin, Crichton Castle is renowned for its stunning 16<sup>th</sup> century courtyard and the roofing material had to be sympathetic to this. The roof also had to be capable of conserving the remains of this striking building for as long as possible, and a durable waterproofing membrane was required. Mastic asphalt was therefore the ideal solution, as it is robust yet in keeping with the character of the castle and the locality.

**Project Sector:** Historic refurbishment  
**System:** Hot applied Mastic Asphalt  
**Products Used:** Permaphalt Polymer Modified Mastic Asphalt  
**Contractor:** Lenaghen Roofing Services  
**Completed:** September 2005  
**Size:** 130m<sup>2</sup>  
**Contact:** Lenaghen Roofing Services  
101 High Street, Bonyrigg,  
Midlothian EH19 2ET  
Tel: 0131 663 8480

130sq m of Permaphalt Polymer Modified Mastic Asphalt from IKO PLC was used for the project. The polymer content provides a higher performance than conventional grades of mastic asphalt and results in a combination of traditional appearance and superior stability.

Permaphalt gives long term durability plus increased fatigue resistance whilst still using traditional asphalt application techniques, making it a perfect material for refurbishment projects as it provides excellent protection without detracting from the ambience of the building.

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ASPHALT