

Introduction

Hinton Perry and Davenhill works hard to minimise its impact on our environment and to maximise the effective use of resources. The company is committed not only to complying with applicable law in all of its operations, but to minimise risks and impacts through the development of robust systems to implement, measure, and deliver excellent environmental performance both within its operations and to the broader community. Our approach to sustainability is to focus on people, manufacturing technology, products and the environment.

People

- Providing a safe and healthy workplace. All production employees receive annual health surveillance.
- Enhancing awareness among our employees and customers, educating and motivating them to act in an environmentally responsible manner. All employees receive specific training.
- Be a positive and proactive contributor to the local community in which we operate. We have supported and shaped the local community for 218 years
- Encourage the conservation of resources by promoting reuse and recycling across the business. All employees receive specific training.
- Ensuring the responsible and minimum use of energy throughout the organisation. Key employees are charged to reduce annual energy consumption.
- Constantly work to improve environmental protection at the factory and the quarry. We have implemented ISO 14001 at the factory and quarry.
- Conducting rigorous audits, evaluations, and self-assessments of the implementation of this policy. As well as annual, UKETS, ISO 14001 and ISO 9001 we operate internal sustainability and energy efficiency committees.
- Working with suppliers who promote sound environmental practices.
- Maintain the skills and processes to manufacture products to restore historic buildings. Through training and upskilling we retain the skills to manufacture the same roof tile and brick product ranges we made 100 years ago.

Technology

- Driving energy efficiency across all manufacturing processes. All key energy intensive motors and all kilns are metered on a half hourly basis to determine where energy savings can be generated. Voltage optimisation and variable speed motors have been installed since 2010

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- Re-use waste heat from kilns in upstream processes. A heat recovery system taking waste heat from the kilns to the dryers has been installed since 2008.
- Research and develop technologies to constantly improve firing efficiencies, we are currently working on oxygen enrichment and recuperative burners.
- Research and develop alternative CO² free fuel sources, we are participating in test of hydrogen firings.
- Research and develop carbon capture solutions. Carried out a feasibility study to mineralise CO² emissions.
- Constantly work on reducing waste. Over the last 10 years we have reduced firing waste by 30% and packaging waste has been reduced by 37% over the last 5 years.

Products and Environment

- Manufacturing products with a very long design life with high durability that can be reused. The life expectancy of our bricks is 150 years plus and our roof tiles 100 years plus.
- Constantly reduce the embodied energy and carbon used in the manufacture of our products. Achieved through improved energy efficiency and the capture of waste heat for re-use.
- Enhance biodiversity through the use of our products. We have introduced a range of products to encourage the greening of urban areas and the protection of species such as bats and swifts.
- Promote the most efficient use of resources and their use in a circular economy. We minimise the use of packaging, our pallets of roof tiles and packs of bricks are supplied without shrink wrapping. We recycle all unfired clay and have reduced the volume of clay where possible in our products through the introduction of perforations.
- Reduce the social and environmental impacts associated with the transportation of Hinton Perry & Davenhill's products.

What we have achieved since 2008

- Cut our CO² emissions by 30%
- Implemented a kiln heat recovery system
- Improved the thermal efficiency of all our kilns
- Reduced our electricity consumption through Voltage Optimization, LED lighting, Variable Speed Drives and micro metering of all key motors

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- Achieved high employee retention, with several employees passing 50 years of service with the company
- Reduced the volume of clay used through the introduction of perforated bricks with the same performance characteristics as solid bricks
- Implemented environmental and energy awareness training across all employees.
- Achieved recognition in the industry for our decarbonisation efforts and innovation, winning awards for decarbonisation and innovation.
- Introduced, bat conservation tiles, moss tiles, swift boxes for improved biodiversity in the built environment.
- Manufactured products for the conservation of many historic buildings in the UK and Worldwide.
- Introduced packaging with high recycled content and cut packaging waste by 37% in the last 5 years.

Kevin Preston
Managing Director



Date: 31st January 2025