

Blacon High School: High Quality Design and Sustainable Construction

The screenshot shows a web portal with a navigation menu on the left and a main content area. The main content area is titled 'ENV 6 High quality design and sustainable construction'. It includes a 'Policy ENV 6' section with a sub-section 'High quality design and sustainable construction'. Below this, there is an 'Explanation' section with three numbered points (8.48, 8.49, 8.50) detailing the policy's goals and standards.

Cheshire West and Chester Borough Council are committed to high-quality design and sustainable construction.

The Cheshire West and Chester Local Plan was adopted in January 2015 and forms part of the statutory development plan for the borough. The Local Plan will be developed in two parts, *Part One Strategic Policies* and *Part Two Land Allocations and Detailed Policies*. The purpose of the Plan is to provide the overall vision, strategic objectives, spatial strategy and strategic planning policies for the borough to 2030. The Local Plan (*Part One*) will be the starting point when considering planning applications.

It sets out the commitment to High Quality Design and Sustainable Construction, which

is underpinned by eleven principles.

The The Local Plan (*Part One*) also sets out how Cheshire West and Chester Borough Council complies with with national planning policies - The National Planning Policy Framework (NPPF) - and that the council will use nationally described standards for any proposals for sustainable buildings.

The Plan concludes: *The Government's preferred standards are the Code for Sustainable Homes (CSH), and BREEAM, although these are not the only available and recognised standards that would be acceptable under this policy.*

*... sustainable design and construction techniques, adaptive reuse, and energy efficiency measures, in both new and existing development, should be used.*

What is BREEAM?

BREEAM is the world's leading sustainability assessment method for masterplanning projects, infrastructure and buildings. It recognises and reflects the value in higher performing assets across the built environment lifecycle, from new construction to in-use and refurbishment.

BREEAM does this through third party certification of the assessment of an asset's environmental, social and economic sustainability performance, using standards developed by BRE. This means BREEAM-rated developments are more sustainable environments that enhance the well-being of the people who live and work in them, help protect natural resources, and make for more attractive property investments.

BREEAM UK New Construction

The BREEAM UK New Construction scheme is a performance-based assessment method and certification scheme for new buildings.

The primary aim of BREEAM UK New Construction is to mitigate the life cycle impacts of new buildings on the environment in a robust and cost-effective manner. This is achieved through integration and use of the scheme by clients and their project teams at key stages in the design and construction process.

Clients can measure, evaluate and reflect the performance of their new building against best practice in an independent and robust manner.

Performance is quantified by individual measures and associated criteria stretching across a range of environmental issues and expressed as a single certified BREEAM rating, i.e. the label.

Table 2.1 BREEAM UK New Construction 2018 environmental sections and assessment issues

Management	Health and Wellbeing
<ul style="list-style-type: none"> <li>Man 01 Project brief and design</li> <li>Man 02 Life cycle cost and service life planning</li> <li>Man 03 Responsible construction practices</li> <li>Man 04 Commissioning and handover</li> <li>Man 05 Aftercare</li> </ul>	<ul style="list-style-type: none"> <li>Hea 01 Visual comfort</li> <li>Hea 02 Indoor air quality</li> <li>Hea 04 Thermal comfort</li> <li>Hea 05 Acoustic performance</li> <li>Hea 06 Security</li> <li>Hea 07 Safe and healthy surroundings</li> </ul>
Energy	Transport
<ul style="list-style-type: none"> <li>Ene 01 Reduction of energy use and carbon emissions</li> <li>Ene 02 Energy monitoring</li> <li>Ene 03 External lighting</li> <li>Ene 04 Low carbon design</li> <li>Ene 05 Energy efficient cold storage</li> <li>Ene 06 Energy efficient transportation systems</li> <li>Ene 07 Energy efficient laboratory systems</li> <li>Ene 08 Energy efficient equipment</li> </ul>	<ul style="list-style-type: none"> <li>Tra 01 Transport assessment and travel plan</li> <li>Tra 02 Sustainable transport measures</li> </ul>
Water	Materials
<ul style="list-style-type: none"> <li>Wat 01 Water consumption</li> <li>Wat 02 Water monitoring</li> <li>Wat 03 Water leak detection</li> <li>Wat 04 Water efficient equipment</li> </ul>	<ul style="list-style-type: none"> <li>Mat 01 Environmental impacts from construction products - Building life cycle assessment (BLCA)</li> <li>Mat 02 Environmental impacts from construction products - Environmental Product Declarations (EPDs)</li> <li>Mat 03 Responsible sourcing of construction products</li> <li>Mat 05 Designing for durability and resilience</li> <li>Mat 06 Material efficiency</li> </ul>
Waste	Land Use and Ecology
<ul style="list-style-type: none"> <li>Wst 01 Construction waste management</li> <li>Wst 02 Use of recycled and sustainably sourced aggregates</li> <li>Wst 03 Operational waste</li> <li>Wst 04 Speculative finishes (Offices only)</li> <li>Wst 05 Adaptation to climate change</li> <li>Wst 06 Design for disassembly and adaptability</li> </ul>	<ul style="list-style-type: none"> <li>LE01 Site selection</li> <li>LE02 Identifying and understanding the risks and opportunities for the project</li> <li>LE03 Managing negative impacts on ecology</li> <li>LE04 Change and enhancement of ecological value</li> <li>LE05 Long term ecology management and maintenance</li> </ul>
Pollution	Innovation
<ul style="list-style-type: none"> <li>Pol 01 Impact of refrigerants</li> <li>Pol 02 Local air quality</li> <li>Pol 03 Flood and surface water management</li> <li>Pol 04 Reduction of night time light pollution</li> <li>Pol 05 Reduction of noise pollution</li> </ul>	<ul style="list-style-type: none"> <li>Inv 01 Innovation</li> </ul>

Technical Manual Version: 02/2018 - Issue 2.0 - Issue Date: 03/12/2018

Page 9 of 307

The screenshot shows the BREEAM website homepage. It features a navigation bar at the top with 'Why Choose BREEAM', 'BREEAM Methodology', 'How BREEAM Works', 'The Technical Standards', and 'New Assessment Schemes'. The main content area is titled 'The Aim of BREEAM' and includes three columns: 'Encourage' (Continuous performance improvement), 'Empower' (Those who own, commission, deliver, manage or use buildings), and 'Build Confidence and Value' (By providing independent certification). Below this, there are four icons representing '1st THE WORLD'S FIRST SUSTAINABILITY ASSESSMENT METHOD FOR BUILDINGS', 'SCIENTIFICALLY ROBUST STANDARDS DEVELOPED BY BRE', 'EMPOWERING INDUSTRY TO INNOVATE & BUILD A BETTER WORLD', and 'INCREASING ASSET VALUE FOR CLIENTS & INVESTORS'. At the bottom, three large green boxes display statistics: '569,350 Certificates', '2,279,951 Registered Buildings', and '83 Countries'.

Source: BREEAM  
www.breem.com

