

## WHAT IS A SUSTAINABLE PRODUCT?

A widely used definition of sustainable development is:

*'Development that meets the needs of the present, without compromising the ability of future generations to meet their own needs'*

This can then be applied to any product or activity. However, there are so many influencing characteristics and levels of compromise that perhaps it would be more relevant to define 'sustainable construction products' as being:

*'Products that have less environmental impact than previously available choices'*

This allows us to understand how we might progress the development of sustainable construction products, whilst accepting that 'less than perfect' solutions bring much needed improvements towards the end goals of reducing emissions, waste, carbon usage and the use of irreplaceable natural resources.

In the construction sector, the term 'sustainable' is often associated with alternative energy products such as solar panels, photovoltaics, heat pumps, CHP and wind turbines. However, there are many materials that can offer real, measurable sustainability improvements in all areas of construction.

Wolseley has, and will continue to define products with sustainable characteristics in all the different construction sectors, identifying them separately, but making them available through its unrivalled supply chain, to address the needs of customers.

Wherever possible Wolseley has tried to qualify and quantify the sustainable characteristic of each product, although this often is difficult to do.

Different circumstances, installations and the incorporation of products into larger structures or systems, mean that a complete package may deliver a sustainable output, without each individual component necessarily having sustainable characteristics.

## OUR VISION

The Wolseley Sustainable Building Center (SBC) in Royal Leamington Spa will be a living, interactive showcase, featuring renewable and sustainable materials for building and water conservation projects.

Each visit to the Wolseley SBC will be made up of three elements:

**Demonstration** (of technologies & products)

**Presentation** (tailored to the visitor or visitors)

**Consultation** (personalised advice and services)

The SBC will act as a training centre for all stakeholders through a constant series of presentations and seminars.

The SBC venue will also be available for commercial hire.

The SBC will also demonstrate sustainable behaviours and within the confines of practicality will seek to define best practice for the company and any other interested party.



Photovoltaics



Wall Insulation



Green Floor Coverings



Sustainable Timber



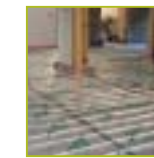
Water Saving Devices



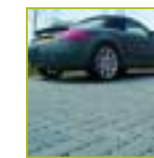
Ground Source Heat Pumps



E-Glazing



Underfloor Heating



Porous Paving



Solar Thermal



Sedum Roof



Natural Lighting



Sustainable Wall Board



Low Energy Lighting



Rainwater Harvesting

**WOLSELEY**  
SUSTAINABLE BUILDING CENTER



**Wolseley UK**  
Sustainable Building Center  
Harrison Way  
Spa Park  
Royal Leamington Spa  
CV31 3HH

Telephone: 01926 705000 • [www.wolseleysbc.co.uk](http://www.wolseleysbc.co.uk)



**WOLSELEY**



**SUSTAINABLE BUILDING CENTER**

AN INTRODUCTION

## THE WOLSELEY SUSTAINABLE BUILDING CENTER

The Wolseley SBC will provide a commercial route to market for sustainable construction products, this service being supported by both technical and design assistance where appropriate.

The Center will provide a single point of contact for data and information, and the focal point for Wolseley's sustainable products strategy, allowing access to a wide range of stakeholders.

This fantastic and truly unique facility will open in late 2007, and will feature many products in a real working environment. Products will be accessible both in the fabric of the building and in the display galleries. The Center also has a dedicated presentation theatre, where a full calendar of events will be staged featuring nationally and internationally recognised speakers.

All aspects of sustainable construction will be addressed, from groundworks and drainage through to roofing and all points in between.

However, Wolseley's sustainable product strategy is not constrained by the construction programme of the SBC building. Products and people are in place now, and customers requiring access to all that is best in sustainable construction products, which are both practical and economic, should contact Wolseley or visit [www.wolseleysbc.co.uk](http://www.wolseleysbc.co.uk).



## KEY FEATURES

One of the key features in the new SBC building is a Measurable Energy Management System, which switches between installed technologies (from PV to CHP to wind, etc.)

Designed to be "dynamic" and to showcase the most practical available technologies, products will be removed and replaced as new or improved versions become available.

The Center will also be a central source for data regarding products, their manufacture, performance and installation.

Information in the SBC will be communicated at three different levels:

- Level 1** – Product 'touch and feel' – the building itself
- Level 2** – Storyboards, general specifications, manufacturers general sale information
- Level 3** – More detailed technical information, how to install and operate products.



### GROUND FLOOR – approx. 445m<sup>2</sup>

Includes: 40 seat audio visual theatre; internal street and gallery; energy efficiency and renewables gallery; cafe; terrace; courtyard



### FIRST FLOOR – approx. 185m<sup>2</sup>

Includes: external gallery viewing deck; pitched roof test bed; sedum roof; bridge; further display gallery and balcony with wind turbine

## PROPOSED SBC GALLERY SUPPLIERS AND PRODUCTS

### Drainage & Water Conservation

Marley	Waterloc SUDS System
Marshall's	Priora Porous Paving
Hepworth	Clay Drainage
Titan	Rainwater Harvesting
Geberit	HDPE Above Ground Drainage
	Acoustic Soil

### Sub Structure

Hanson	Thermalite Beam & Block with PFA
Hanson	PFA Cement Substitute
Hanson	Cobiax Bubbledeck
Visqueen	Eco Membrane

### Flooring

Renewal Carpet Tile Ltd	Recycled Commercial Carpet Tiles and Residential Carpets
Finnforest	FSC Certified Timber Flooring & Decking
Tarkett Marley Kingspan	Tarkett Linoleum Access Floors

Grant UK	Biomass Boiler (Available mid 2007)
Solar Century	Various PV Technologies

### Heating & Ventilation

Unipipe	Underfloor Heating
Various	Condensing Boilers
Passivent	Natural Ventilation Products
Xpelair	Single Room Heat Recovery



### Wall Construction

Finnforest	Various - Lenotec, FSC Timber Cassettes, Curtain Walling, Thermowood Cladding, Fireborn Blocks
Ibstock	Twin Wall Precast Wall Units
Hanson	Suncool Solar & Activ Self Cleaning Glass Walling
Pilkington	Duorock Insulation
Rockwool	Warmcell Insulation
Excel Industries	Thermafleece Insulation
Second Nature UK	Pavatex Softwood Fibre Insulation Board
NBT Ltd	

### Roofing

Alumasc	Green Sedum Roofing System
Alumasc	Korkliite Insulation
Lindab	Aluzinc Standing Seam Roofing
Lindab	Rainline Guttering, Downpipes & Fittings
Finnforest	Finnjoist, Kerto LVL Beams,

### Wall Finishes

The Panel Agency	Sasmox Plasterboard
BASF	Micronal Smartboard
NBT	Claytec Plasterboard
NBT	Trade Eco Emulsion, Egg Shell & Gloss Paint
Castle	Lime Render

### Windows & Doors (Joinery)

Jeld-Wen	Eco Range of External Windows & Doors
Jeld-Wen	PEFC Certified Internal Doors

### Renewable Technologies

Worcester Bosch	Greenstore Heatpump & Ground Collectors
Worcester Bosch	Greenskies Solar Thermal System
Vaillant	Aurotherm Solar Thermal System inc. Aurostor Solar Cylinder
Heatrae Sadia	Solar Cylinders
Albion / Range	Solar Cylinders
Microgen / Baxi	Micro CHP Unit (Not for Sale)

### Lighting

Glidevale	Sunscoops
Thorn	Internal Low Energy Luminaires & Lamps
Concord Marlin	External Low Energy Luminaires & Lamps

### Bathrooms & Toilets

Armitage Shanks	Aridian Waterless Urinals
Wolseley Saracen	Low Water Content Cisterns
Cistermiser	Infrared Taps
Hippo	Flush Controls
	Flush Reduction Bags