

Your **complete** sustainability **range** from Bradfords



Bradford's

Growing with the community since 1770

www.bradfords.co.uk

Considering the environment

In construction today and in the future, our impact on the environment is of extreme importance. Sustainability is the use of sustainable materials and practices in building construction and refurbishment that promote environmental, social and economic gains for all. It is a very topical subject and as well as being high on the government's agenda, it is something that we retain as a priority in our business strategy.

This booklet features the wide range of products that Bradfords can offer the sustainable builder. From walls, to windows, to water consumption, choices can be made that will provide benefits for today and tomorrow.

Our branch at Yeovil includes a specialist area where our range of sustainable products are on display.



Considerations for supplying sustainable products:

- The features and benefits of the product to the environment
- The way the product is produced
- The distance the product has to travel from source to sales point
- The use of construction techniques local to the area
- The employment of local businesses.

Energy saving

Glidevale Sunscope Tubular Roof Lights

Glidevale Sunscope roof lights bring natural daylight into dark areas where normal windows or roof lights cannot be used. The highly reflective tube guides daylight from the roof dome through the roof space to a room below.

Key benefits include:

- Energy saving – cuts the need for artificial lighting
- Simple and reliable installation
- Adjustable elbows for flexible sitting on both pitched and flat roofs
- Wide range of purpose-designed roof interface flashings to suit most roof coverings
- Complete system meets the requirements of the latest building regulations
- Wide range of applications – houses, flats, schools, hospitals, commercial and industrial building
- Light can be efficiently ducted to remote areas and has aluminium mirror finish tubes with 95% reflectivity
- It is ideal for bathrooms, stairways, corridors and other dark spots.



Glidevale Protect TF200 Thermo

Protect TF200 Thermo is a high performance insulating breather membrane with a highly reflective surface to enhance the thermal performance of final wall construction.

Key benefits include:

- Low emissivity reflective surface to improve the overall u-value of wall constructions
- Good nail tear resistance
- Corrosion and damage resistant
- Complies with the requirements of the Approved Document Part L and the Code for Sustainable Homes
- Meets the permeability requirement recommended by TRADA and NHBC.



Solar power

Navitron - solar water heating panels

Solar panels have a variety of uses - heating hot water for domestic hot water cylinders, commercial hot water supplies, farms, dairies, swimming pools or even industrial processes. Navitron is one of the UK's largest suppliers of solar heating products and through them Bradfords can offer some extremely attractive prices on the various systems.

An average household (3 people) could expect to produce most of its hot water from the end of March to the end of September from a single 20 tube 47mm Navitron solar panel, although it will depend on water usage. Even outside this period, solar will produce a worthwhile contribution towards your hot water requirements, resulting in significant reduction of fuel usage and carbon dioxide emission. In fact, fitting a solar system to your house is probably one of the most positive ways you can reduce your carbon footprint, without making major lifestyle changes.

For larger households (4-5 people), it may be necessary to fit a larger solar installation of between 30-40 tubes to get the same percentage of hot water requirements. However, even if a smaller system is fitted, every kWh produced will save 1 kWh of fossil fuels and 0.5kg of CO2 emissions.



Average heat gain from one 47mm 20 tube Navitron panel per day		
Jan 1.15kWh	Feb 2.11kWh	Mar 3.49kWh
Apr 5.80kWh	May 7.51kWh	Jun 9.00kWh
Jul 7.99kWh	Aug 6.50kWh	Sep 5.00kWh
Oct 3.01kWh	Nov 1.41kWh	Dec 0.85kWh

SFB solar panel

The SFB solar panel is the best choice for the UK. The panel is considered to be one of the most cost-effective on the market and performs extremely well in the UK climate. Its slimline design suits UK architecture and in most cases are 'permitted development' - meaning no planning permission is required. The SFB panel has a very low heat capacity, containing only 1 - 1.5 litres of water inside the manifold. This allows the panel to heat up quickly and minimises heat loss at night.

Geothermal power

Ground source heat pump

A heat pump is a system that uses a refrigeration-style compressor to transfer heat from outside to inside in order to heat offices or homes. Heat pumps can take heat from the air, water or ground. Heat pumps that use the outside air temperature are generally inefficient - this is because the air loop attracts condensation and this quickly freezes, building up a thick layer of insulating ice, forcing the heat pump to work harder and harder. For this reason, ground source heat pumps are the choice of preference. Ground source heat pumps (GSHPs) are very efficient. In fact you will get 3-4 units of heat for every unit of electricity supplied to the heat pump - if you are heating with electricity, a GSHP will quarter your heating bill! GSHPs can use the ground, streams, wells or boreholes to supply heat. Heat gained from running water or ground water is the most efficient of all.

If you would like further information on these products please contact your local branch or email marketing@bradfords.co.uk.

Insulation

Sheep's wool insulation – Thermafleece – Second Nature UK Ltd

Thermafleece is a natural home insulation material that uses the blended wool of British hill sheep. It is breathable so can absorb moisture with no loss of thermal efficiency, keeping homes warm in winter and cool in summer.

The production of Thermafleece takes considerably less energy than is required to produce glass fibre insulation. It is completely safe to handle, will remain effective for the life of the building and is biodegradable and recyclable.

Thermafleece is treated with a natural fire-proofing agent and is also treated to protect against mould and insects.

Rockwool Flexi

Part of the Rockwool SoundPro range, Rockwool Flexi is a unique insulation product with a patented flexible edge, for maximum insulation integrity. Flexi enables precision insulation; for walls, partitions, floors and roofs. The patented flexible edge allows the product to fit tightly between timber and metal frames, eliminating wastage.

Rockwool Flexi Slabs are light weight and easy to cut to size. Once installed, the Flexi slabs need no maintenance. Its unique flexible edge allows the product to be pushed into place. Rockwool Flexi has bi-directional expansion, ensuring optimum thermal integrity.



insulation recycling sustainability protecting recycling insulation rainwater storage solar power cost effective thermafleece reclaimed bricks solar energy saving heating biodisc sewage treatment system environmental geothermal solar power sustainability environmental geothermal

Fact: 3kWh is equivalent to boiling your kettle for over one hour or heating 75 litres of water by 400C

Timber & Wood Flooring



As a specialist producer of engineered woods, Ted Todd & Sons offer a huge range of ethically-sourced wood flooring including:

- Traditional Character Oaks
- Beautiful French Oaks
- Reclaimed timber – including pitch pines and oaks
- Parquetry – in a range of blocks and strips
- Woods – including Tiger Wood, Purple Heart, Massaranduba, Jatoba and Ipe

Ted Todd & Sons ensure that every piece of wood traded is not on the Red Data list and is FSC or PEFC-certified where possible.

Local sustainable timber

Green Oak, Douglas Fir, Larch, Beech and Western Red Cedar is available from our local sources.

Hardwood floors – from local sources

Whether you are restoring an older property or building a modern town house, a traditional solid wood floor has a natural beauty which will last and mellow with age. Available kiln dried in Oak, Ash or Elm – machined tongue and groove boards.



Timber

Bradfords are committed to the Forest Forever Environmental Timber Purchasing Policy which states our commitment to sourcing all timber from sustainable and legal sources, and we seek evidence of compliance from suppliers that they are operating within the laws of their Country.

Our future aim is to ensure that all our stocks are either FSC or PEFC certified.

Wood flooring from Ted Todd & Sons

Hardwood flooring continues to grow in popularity as more and more people seek to make a long-term investment in their homes rather than move house.

Property of Edwards Cheshire with thanks to Ted Todd and Sons for their permission to print

Environmentally friendly SmartPly

SmartPly Orientated Strand Board (OSB) is an innovative, environmentally friendly timber based solution for structural and non-structural building applications.

SmartPly is an engineered wood product manufactured to European Standard EN 300. Its oriented wood flakes are coated with resins and compressed under high temperature, resulting in a load bearing panel that achieves a reliable distribution of strength, stiffness and spanning capacity along and across the board.

SmartPly products are used extensively as a cost-effective alternative to plywood by roofing and flooring contractors, timber-frame manufacturers, builders, shop fitters, civil engineers, exhibition contractors and packaging and furniture manufacturers, amongst others.

SmartPly has no structural defects, such as knotholes and core voids. It cuts easily, will not delaminate and can be nailed up to 10mm from the edge without splitting or breaking out. SmartPly Europe supply SmartPly 3 OSB, a load bearing panel suitable for structural use in humid conditions. It is ideal for applications as diverse as flooring, roofing, hoarding and timber-frame wall sheathing amongst others.

SmartPly 3 meets the criteria of today's demanding construction standards such as BS7916:1998, BS5268 Part 2 and those set by the BBA and IAB. Its suitability for structural use is also recognised by Homebond, Local Authority Building Inspectors and the NHBC.

SmartPly 3 panels form the base of our range of value-added engineered wood products. At least 90% of the timber used in the manufacture of SmartPly products comes from well-managed forests, independently certified according to the rules of the Forest Stewardship Council (FSC).



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wood flooring

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certified
douglas fir

friendly timber
smart ply
eco friendly
value added
solid
sustainability
bio-disc sewage treatment system
environment
geothermal

Rainwater and drainage

Cast iron rainwater systems

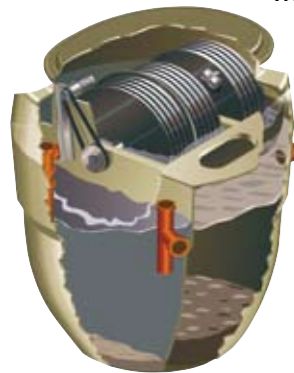
Cast iron guttering and pipe systems provide a natural alternative to manmade plastic. Unlike plastic guttering and piping, iron is naturally durable, with no twisting due to temperature changes or damage from inclement weather. This makes it a sustainable alternative, eliminating unnecessary replacement or waste, and being a natural product, iron is 100% recyclable.



Efficient channelling of rainwater allows for improved opportunities to recycle. Cast iron preserves the historical look of older buildings thus 'sustaining' architectural heritage.

Biodisc Sewerage Treatment System – Klargester Environmental

The Biodisc is designed for homes without mains drainage, where discharge is to sub-surface irrigation or a water course, or where a septic tank will not meet the required standards. Its design encourages completely natural breakdown of waste and it is constructed from corrosion free materials. The effluent produced will meet the demands of Environment Agency regulations and it meets Building Regulations stipulating the avoidance of overflow.



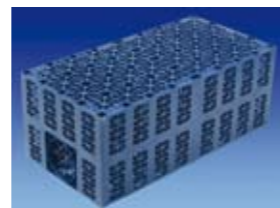
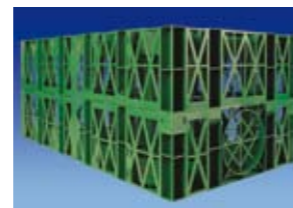
Sustainable Drainage Systems (SUDS)

Sustainable Drainage Systems (SUDS) offer an approach to drainage that recognises the wider consequences of urban developments.

During heavy rainfall, the concentrated volume and velocity of surface water places excessive pressure on existing watercourses and local drainage infrastructure. There is also a capacity limitation, creating an increased risk of flooding. Sudden downpours can also pick up pollutants from impermeable urban surfaces and carry them into natural watercourses.

The AquaCell system (illustrated below) is a tried and tested modular technique for managing excessive rainfall and reducing the risk of flooding or damage to the local environment. It does so by creating an underground structure as either a temporary storage tank or a soakaway. Systems are available for both trafficated and non trafficated areas and have the following advantages:

- Suitable for both soakaway and storage tanks
- Lightweight and versatile
- 95% void ratio holds 190 litres of water per unit
- Safer option than open or above ground storage structures
- Easy to install and handle
- Allows 'brick-bonding' assembly for extra stability, no extra adaptors needed
- Proven clip and peg system to secure units
- Full range of ancillaries including silt trap and adaptors



Horizontal Reed Bed Effluent Treatment System – Klargester Environmental

To further treat domestic effluent after initial treatment by Biodisc, the Reed Bed system will improve effluent discharge quality by at least 50% and will reduce the amount of phosphates in the discharge. It is a natural filtration process where discharge passes through a container of water reeds.

Lindab steel rainwater systems

In the UK, Lindab's Rainline Rainwater Drainage System is one product attracting considerable interest, not only because of its green credentials but also because it outperforms aluminium, cast iron and plastic systems. Manufactured using zinc coated galvanised steel and 30% recycled material, Rainline offers minimal movement, UV stability and unlike plastic, doesn't crack, fade or leak.

Available in four gutter widths and five down pipe diameters, Rainline is suitable for both domestic and commercial applications. Lighter and less expensive than cast iron systems, Rainline is also highly corrosion-resistant. The product comes with a fifteen year guarantee and is completely recyclable.

Rainline components are precision engineered to quickly and simply click together for a perfect watertight fit, removing the need for silicone jointing. Available in ten standard colours plus plain galvanised, Aluzinc and plain copper, this product is fast becoming the preferred choice over and above any other rainwater system on the market.

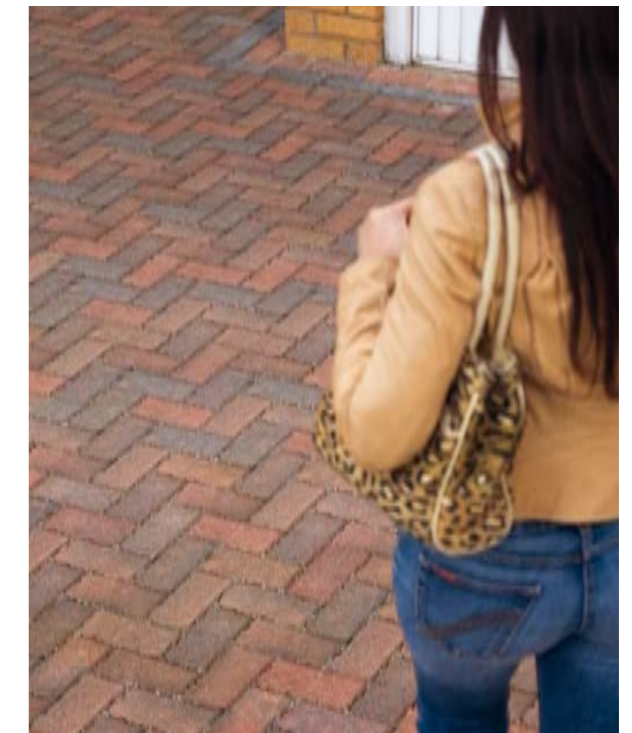


Permeable paving

Responding to consumer demand and environmental concerns, this year Marshalls has introduced a range of permeable paving solutions for the domestic market.

In built up environments, nearly 95% of rainfall is making its way directly into drains and therefore placing huge pressures on drainage systems. Marshalls' new ranges of permeable domestic driveway and grass grid systems have been designed to enable surface water to drain into the environment rather than into the hard pressed sewer systems in times of heavy rainfall.

The unique patented design of Marshalls' permeable block paving creates voids at the joints, allowing surface water to pass through naturally into a specially calibrated sub-base without compromising the integrity of the driveway. This also substantially reduces the risk of pollution and flooding in the sewer systems.



insulation
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biodisc sewage treatment system
cost effective
green credentials
natural filtration
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durability
water retention
quality tested
solar
sustainability
biodisc sewage treatment system
environmental
geothermal

Water saving

Rainwater recycling with the Envireau system – Klargester Environmental

This system collects rainwater from storage on the roof, filters out debris and stores it ready for use. When required, water is pumped and filtered before use in the home e.g. flushing toilets and in the garden.

With an additional UV filter, water can be made drinkable. The system uses mains water if rainwater supplies fall too low.



RainTrap

RainTrap is a new, inexpensive underground rainwater storage and delivery system from the market leaders in rainwater harvesting.

RainTrap collects rainwater from roofs via existing guttering and downpipe systems on the property. The integral leaf filter removes unwanted debris washed down from the roof, thus ensuring good quality stored water. The system can be used all year round to water the garden, operate a sprinkler or wash the car.



Key benefits:

- Easy to install
- Inexpensive
- Simple on/off operation
- Automatic shut-off
- Suitable for existing and new homes
- Automatic rainwater diversion when tank reaches full capacity
- 2800, 3800 and 4600 litre capacities
- Internal self-cleaning leaf filter
- Designed and manufactured in the UK

Capacity (litres)	Overall Diameter (mm)	Height to inlet/outlet (mm)	Weight (kg)
2900	1905	1565	125
3900	2070	1795	180
4600	2080	2035	210

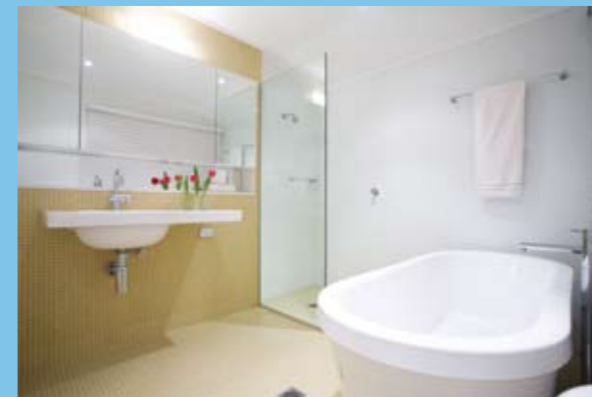
Sensorflow

Sensorflow is an electronic washroom system using a central control unit to manage the economic delivery of water to washbasins, showers and urinals.

A range of products are available with Sensorflow technology.

Bradfords supply a number of water saving products, including:

- **Close coupled closet suites:** With 2.6-4.0 Litre Dual Flush WC Pack including WC, toilet seat and cistern with delayed fill.
- **Shower restrictors:** Designed to give a maximum of 9 litres of water per minute to a pressure of 3 bar.
- **Water saving baths:** The E7690 Alto and S1597 Sandringham baths are both water saving, only using 149 litres of water to the overflow.



Bristan EcoHomes

Bristan EcoHomes balances environmental issues such as climate change, resource use and effects to wildlife with today's demands for a high quality, safe and healthy home environment.

One of the criteria examined in the EcoHomes assessment is water usage and Bristan's new range allows housebuilders to gain maximum points on the assessment for water economy. Bristan products can be adapted to offer maximum water economy with the ability to reduce water consumption down to just four litres per minute. Effectively the lower the flow, the more points a housebuilder can attain on their assessment. Bristan's flow limiters not only reduce water consumption and lower harmful effects to the world's environment, but they also reduce running costs.

Water saving products

Changes in lifestyle suggest we are using 55% more water than we did twenty-five years ago. Low flush toilets and water efficient taps in new homes are just two ways to easily reduce water consumption by up to 20%.



insulation
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sustainability
wind power
rainwater storage
environmental
solar
simple installation
heating

rainwater traps

solar power
reduced running costs
water storage
climate change
future support

Timber frame housing

Timber frame housing

Through our timber engineering division, Bradfords are able to offer a timber frame design service, supplying engineered floors, and interior and exterior wall panels complete with roof structure, with the added option of expert installation.

Timber frame housing is well known for its sustainability credentials as timber is effectively a carbon-neutral material. It also has the lowest CO2 cost of any commercially available building material.

With increasing demands such as the Code for Sustainable Homes and stricter building regulations, building with timber is a responsible and logical solution.



The product range includes:

- **Timber frame panels:** Designed to meet a number of Modern Methods of Construction (MMC). Using offsite manufacturing process, Bradfords can supply either the open panel or closed panel systems.
- **Eco-Joists:** As an increasingly popular timber-framed house feature, the Eco-Joist offers many advantages. Due to the "W" formation of the weave, an open void is naturally created, allowing free running of M&E and HVAC installations.
- **Trus Joist engineered wood products:** Manufactured from wood fibre certified by SFI (Sustainable Forestry Initiative) with full Chain of Custody processes. The dimensional stability of Trus Joists helps them resist the warping, twisting and shrinking that can lead to squeaky floors.

Timber Trusses: Roof trusses are engineered to approved tolerances from high quality strength graded timbers and are connected with galvanised steel templates. Trussed rafters are manufactured at our production plants in line with ISO9002 quality management systems. The timber and quality manufacturing standards are fully assured under the TRADA quality assurance scheme.

Bradfords have recently commissioned a range of timber frame house designs, as illustrated.

Super E[®] house programme

A Super E[®] home is your assurance that you're choosing a healthier, more comfortable alternative for your family, a better choice for the environment - and quality you can trust. Super E[®] homes are unlike any other home on the market.

Super E[®] is more than just a method of building houses, it is a programme, endorsed by the Government of Canada, and backed by leading Canadian exporters of housing products and services.

By joining the Super E[®] House Programme, members have access to training, technical support and marketing expertise. The Super E[®] infrastructure backs members up with a system of verification, technical support, marketing assistance and troubleshooting that can be accessed through your Canadian partner. Overseas developers, architects or builders, team with Canadian Super E[®] members to work on Super E[®] home projects.

Super E[®] is ideal for all types of housing developments.

RSLs choose Super E[®] because of its focus on carbon reduction and sustainability that helps them "tick the boxes" in the Code for Sustainable Homes and other sustainability schemes.

Large developers choose Super E[®] because of its ability to deliver large numbers of homes that all conform with high quality and sustainability standards. Smaller developers choose Super E[®] for its flexibility and for the unparalleled support available from the Super E[®] team.

For developers interested in capturing the emerging green market, Super E[®] is the ideal choice. Reduced energy consumption through advanced building envelope design ensures maximum effectiveness of expensive solar, wind and ground-sourced renewable energy systems.

The Super E[®] support team can provide experience and expertise in the design of both individual eco-homes and sustainable communities.

For more information on Super E[®] housing please contact Bradfords for one of our Housing Solutions Brochures.



House design by Catch French Design, Saltash.



Ecosure - for a greener finish

The choice for environmental and sustainable specification.

Whilst some paints deliver sustainability, others deliver performance. Ecosure is a range that does both. As a specific sub-brand of Dulux Trade, Ecosure helps you to easily identify sustainable paint products. All of the Ecosure products have been formulated to have a verifiably lower environmental impact than conventional paint products, whilst maintaining the highest possible standards of quality.

Ecosure paints represent a clear choice for environmental and sustainable focused builders and helps them to reach sustainability objectives. Ecosure reduces emissions of the causative agents of air pollution by up to 84%*. All this, whilst maintaining the highest performance standards.

Ecosure is available in a Matt, Gloss and U/coat finish. Full colour offering is also available but ready-mixed in PBW and Magnolia (Matt only).

*Reductions in embodied carbon and VOC's have been measured against the standard Dulux Trade equivalent. For Gloss and U/coat this is solvent-based as the market is over 85% solvent-based and 98% for gloss specifically.



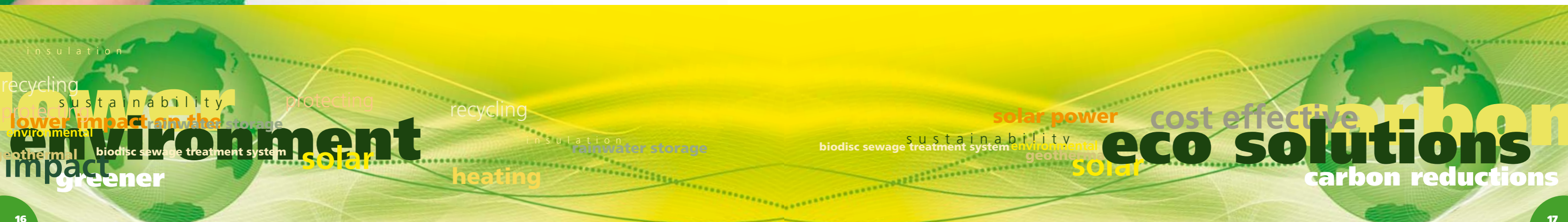
Jeld-wen windows

Modern housing schemes demand high performance windows that provide both security and convenience. Window manufacturer Jeld-Wen's new Hi-Profile Combi 1.5 advanced window system offers total flexibility in window design and configuration.

Along with great durability and easy maintenance, Hi-Profile Combi 1.5 offers both high thermal and acoustic performance. Fully reversible configurations allow minor external maintenance to be carried out from inside the building. The external beading design reduces internal maintenance and significantly enhances perceived security.

Planning requirements can put high demands on architects' design capabilities. The Hi-Profile Combi 1.5 window makes work easier by providing total flexibility. All modes of operation (side and top-hung reversible) match externally, and dimensions can be specified across the widest practical range of sizes and fenestration.

Every window is manufactured to order. Factory finished softwood windows are supplied as standard in engineered knot-free timber, protected with an advanced preservative system. All softwood is PEFC Chain of Custody certified.



Bradfords and sustainability organisations

Bradfords commitment to sustainability is demonstrated through our involvement with the ECOS Trust for Sustainable Development and Future Foundations, an initiative established by Sustainability South West.

The ECOS Trust has a simple mission: "to make sustainable design and building practices normal rather than exceptional throughout Somerset by the year 2010." By also pledging support to Future Foundations, Bradfords feel it is important to make more people aware of the added benefits that environmentally-friendly building practices can provide.



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▲ WORCESTER, The Building Centre, Tolladine Road, Worcester, WR4 9EG	01905 723535
▲ YEOVIL, 100 Hendford Hill, Yeovil, BA20 2QU	01935 423311

* Tool hire departments in these branches.

▲ Bathroom & kitchen showroom in these branches.

All products are subject to availability and Bradfords standard terms and conditions. The information contained in this brochure is correct at the time of printing. However, in the interests of continuing product development and improvement, we reserve the right to amend any or all of the specifications without notice. All orders are subject to Bradfords standard terms and conditions. Illustrations for guidance only.



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solar
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sustainable future

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eco solutions
reclaimed bricks

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