

**COMPLYING WITH THE CODE
FOR SUSTAINABLE HOMES
WITH HELP FROM THE
TRAVIS PERKINS GROUP**



HELPING YOU MEET THE CODE FOR SUSTAINABLE HOMES



NO OTHER BUSINESS IS BETTER EQUIPPED TO HELP YOU BUILD SUSTAINABLE NEW HOMES THAN THE TRAVIS PERKINS GROUP.

Through our market-leading brands, backed by our nationwide network of branches, we can supply all the building products you need to comply with the Code for Sustainable Homes.

This brochure is designed to give you a handy guide to the Code, together with details of our brands and a few examples of the wide range of sustainable building products we can supply you with. For our complete range of sustainable products please ask at your local branch.



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HOW THE TRAVIS PERKINS GROUP CAN HELP

WITH FIVE COMPLEMENTARY TRADE BRANDS WITHIN THE BUILDING SUPPLIES AND SERVICES SECTOR, THE TRAVIS PERKINS GROUP IS PERFECTLY PLACED TO HELP YOUR BUSINESS COMPLY WITH THE CODE FOR SUSTAINABLE HOMES. HERE'S A BRIEF INTRODUCTION TO THE TRAVIS PERKINS GROUP AND ITS BRANDS.

THE TRAVIS PERKINS GROUP

Formed in 1988 out of a merger between the Midlands-based Travis & Arnold plc, and Sandell Perkins plc, a Southern-based business, Travis Perkins has grown to become a major PLC and a main supplier to the building and construction market.

TRAVIS PERKINS BUILDERS' MERCHANTS

GENERAL BUILDING SUPPLIES

Travis Perkins is one of the UK's leading builders' merchants, with nationwide coverage. As a leading supplier of building materials, plumbing and heating, landscaping materials, timber and sheet materials, painting and decorating, dry lining and insulation, tool and equipment hire, doors and joinery, bathrooms and kitchens, hand and power tools, you can always rely on Travis Perkins to give good, reliable service to the trade.

KEYLINE

HEAVY BUILDING SUPPLIES, CIVILS & DRAINAGE

Keyline is a major supplier of heavy building and civils and drainage products to the building and construction market, one of the largest industries in the UK.

As a progressive company, Keyline has developed its traditional heavyside range and increased its product portfolio to include roofing, insulation and dry lining, landscaping materials and timber as well as general building materials.

CITY PLUMBING SUPPLIES

PLUMBING AND HEATING SUPPLIES

City Plumbing Supplies is one of the fastest growing plumbing and heating suppliers in the UK, with a dedicated nationwide branch network of over 180 branches. For more than 25 years, the company has built on its reputation of selling quality products and providing expert service.

City Plumbing Supplies are committed to delivering the best products and services to the trade and their customers. This is done by providing clear and consistent pricing, a wide range of quality core products, unbeatable service from knowledgeable people and a delivery service that's reliable and flexible.

CCF

INTERIOR BUILDING SUPPLIES

CCF is one of the UK's leading distributors of interior building products to the construction industry. Its service and support, combined with a nationwide branch network and extensive fleet of modern vehicles ensures that customers get the materials they require, where and when they need them.

Founded in 1978, CCF operates from a nationwide network of 34 branches. It supplies trade account customers with an impressive product portfolio, which has extended since the company's formation to include ceilings, drywall, screeding, insulation, partitioning and fire protection products from all the leading manufacturers.

BENCHMARK

KITCHENS AND JOINERY

Benchmark is the newest business within the Travis Perkins' Group. It opened its first branch on 10th July 2006 in Croydon, and had reached 25 branches by the end of 2007.

With its offering of rigid kitchens, doors, floors, hardware, and accessories; its vision is to become the first choice supplier of kitchens and joinery products to the trade through its competitive pricing, quality products and knowledgeable staff.

Also part of the Travis Perkins Group:

WICKES

BUILDING SUPPLIES

Wickes stores are designed to appeal to serious tradesmen who undertake general repairs, maintenance and improvement projects for households, and to serious DIY customers who carry out more complex DIY projects. These customers are more demanding in terms of service, quality and price.

TILE GIANT

CERAMICS TILE MERCHANT

Tile Giant is the fastest growing ceramics merchant in the UK, growing from 8 to 32 branches in the last 2 years, supplying both consumer and trade. It stocks ceramic, porcelain, mosaic, stone, slate and natural wall and floor tiles, as well as adhesives, grouts, tools and underfloor heating and all ancillary products to complement the range.

HOW OUR ENVIRONMENTAL POLICY FITS WITH THE CODE

THE ENVIRONMENTAL OBJECTIVES OF THE CODE ARE ONES THAT WE SHARE AS A GROUP OF COMPANIES. WE OPERATE A FORMAL ENVIRONMENTAL MANAGEMENT SYSTEM AND ARE COMMITTED TO INCLUDING ENVIRONMENTAL CONSIDERATIONS IN OUR DECISION MAKING AT EVERY LEVEL WITHIN THE COMPANY.

ISO 14001 CERTIFICATION

We have achieved ISO 14001 certification across our entire network of branches – our policy commits us not only to meeting legal requirements but also to prevent pollution and to seek continuous improvement. We have a detailed improvement plan, which includes actions to reduce our environmental impacts most particularly within:

- Timber management
- Waste management
- Carbon management
- Local pollution.

TIMBER MANAGEMENT

We are committed to continuously increasing the percentage of the raw material content of our timber products that is certified to one of the internationally recognised standards. This currently stands at 73%.

We have already achieved FSC and PEFC chain of custody certification across the company and we have a wide range of certified products available, including:

- MDF
- MDF mouldings
- OSB, chipboard
- Carcassing
- Softwood
- Hardwood
- Plywood
- Solid hardwoods
- Doors
- Roof windows
- Flooring
- Stairpairs

By buying FSC products you are supporting responsible forest management.

CARBON MANAGEMENT

We are committed to reducing the carbon emissions produced by our operations and we aim to reduce carbon emissions by 20% by 2010.

Carbon emissions arise from both our transport and branch activities. We procure 100% of our total electricity demand from renewable sources. New branches are being designed with low carbon in mind and we plan to generate renewable energy at appropriate sites. Energy efficiency will remain an effective way to reduce our emissions, so we continue to look at the heating and lighting efficiency in our branches.

We have reviewed our delivery vehicle fleets and have made some fuel efficiency gains through the use of roof air deflectors. We also plan to introduce more energy efficient Euro V diesel engines going forwards.



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PEFC/16-37-008



IN BRIEF: THE CODE FOR SUSTAINABLE HOMES

WHY IS THE CODE NEEDED?

The Stern Review has shown that climate change is now a serious and immediate issue. In 2004 more than a quarter of the UK's carbon dioxide emissions – a major cause of climate change – came from the energy we use to heat, light and run our homes. From now on, it is vital that the new homes we build use energy efficiently and are built in a way that helps to reduce harmful emissions.

WHAT IS THE CODE FOR SUSTAINABLE HOMES?

The Code for Sustainable Homes has been introduced to drive a 'step-change' in sustainable home building practice. Prepared by the Government working closely with building industry bodies and research organisations it is intended as a single, national standard to guide industry in the design and construction of sustainable homes.

It will measure the sustainability of a home against design categories, rating the whole home as a complete package. The categories included are:

- Energy/CO₂
- Water
- Materials
- Surface water run-off
- Waste
- Pollution
- Health and well-being
- Management
- Ecology

HOW DOES THE CODE WORK?

- **Star rating system** – The Code uses a sustainability rating system indicated by 'stars' to communicate the overall sustainability performance of a home. A home can achieve a rating from one to six stars, depending upon the extent to which it has achieved Code standards.
- **Minimum standards** – Minimum standards exist for a number of categories, which must be achieved to obtain a one star sustainability rating. There are minimum energy and water efficiency standards at every level of the code, recognising the importance of these two areas.
- **Choice** – Apart from these minimum requirements, developers are free to choose which and how many standards they implement to obtain sustainability star ratings.
- **Assessment** – This will be transparent and rigorous and carried out by accredited independent assessors. They will perform design stage assessments, recommend a rating and issue an interim Code certificate. A post completion check will follow. This need only be done for each home type within a development. Follow up sample checks will also be made.

This is just a brief overview of the Code For Sustainable Homes – for the full Code document, please visit www.communities.gov.uk.

WHAT ARE THE BENEFITS OF THE CODE?

BENEFITS FOR THE ENVIRONMENT

- **Reduced greenhouse gas emissions** – With minimum standards for energy efficiency at each level of the Code, there will be a reduction in greenhouse gas emissions to the environment. This will enable us to reduce the threat from climate change.
- **Better adaptation to climate change** – The Building Regulations (approved Document L – 2006) already limit the effects of solar gains in Summer. With minimum standards for water efficiency at each level of the Code and other measures such as better management of surface water run-off, our future housing stock will be better adapted to cope with the already inevitable impacts of climate change.
- **Reduced impact on the environment overall** – Inclusion of measures which, for example, promote the use of less polluting materials, and encourage household recycling, will ensure that our future housing stock has a reduced effect on the environment overall.

BENEFITS FOR HOME BUILDERS

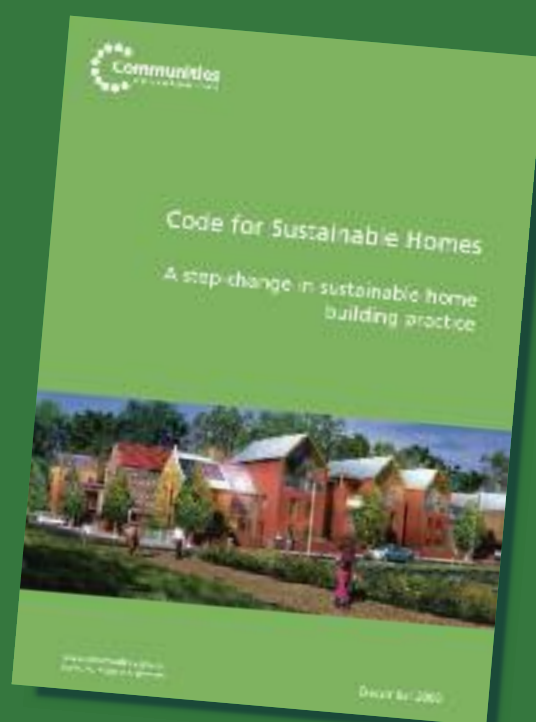
- **A mark of quality** – There is a growing appetite among consumers for more sustainable products and services. The Code for Sustainable Homes can be used by home builders to demonstrate the sustainability performance of their homes and to differentiate themselves from their competitors.
- **Regulatory certainty** – The levels of performance for energy efficiency indicate the future direction of building regulations, bringing greater regulatory certainty for home builders, and acting as a guide to support effective business and investment planning.
- **Flexibility** – The Code is based on performance which means it sets levels for sustainability performance against each element but does not prescribe how to achieve each level. Home builders can innovate to find cost-effective solutions to meet and exceed minimum requirements.

BENEFITS FOR SOCIAL HOUSING PROVIDERS

- **Lower running costs** – Homes built to the Code standard will have lower running costs through greater energy and water efficiency than homes that aren't built to Code standards.
- **Improved comfort and satisfaction** – Homes built to the Code will enhance the comfort and satisfaction of tenants. Costs may be saved in dealing with complaints.
- **Raised sustainability credentials** – The Code will enable Social Housing providers to demonstrate their sustainability credentials to the public, tenants and to funding bodies.

BENEFITS FOR CONSUMERS

- **Helping choice** – The Code will provide valuable information to homebuyers on the sustainability performance of different homes, helping them in the choice of their new home.
- **Reduced environmental 'footprint'** – By asking for a new home which meets the Code standard, consumers will be able to encourage the building industry to build more sustainable homes, and reduce their own 'footprint' on the environment.
- **Lower running costs** – Homes built to the Code standard will have lower running costs through greater energy and water efficiency than homes not built to the Code standard, so helping to reduce fuel poverty.
- **Improved well-being** – Homes built to the Code standard will provide a more pleasant and healthy place to live, for example with more natural light, and adaptability for future needs.



CODE FOR SUSTAINABLE HOMES

CATEGORY	TITLE	Level 3 Mandatory	Credit Value			Mandatory																								
			H	M	L																									
1	Energy & Carbon Dioxide Emissions	5	10	2	2	✓																								
	Dwelling Emission Rates						2	1	✓																					
	Building Fabric									2	1	✓																		
	Internal Lighting												2	2	✓															
	Drying Space															2	2	✓												
	Energy Labelled White Goods																		2	2	✓									
	External Lighting																					2	2	✓						
	Low or Zero Carbon Technologies																								2	2	✓			
	Cycle Storage																											2	2	✓
	Home Office																													
2	Water	3	2	1	✓																									
	Internal Potable Water Use					1	1	✓																						
External Water Use	1	1	✓																											
3				Materials	3	9	3	✓																						
	Environmental Impact of Materials	6	3	✓																										
	Responsible Sourcing of Materials - Basic Building Elements								3	3	✓																			
Responsible Sourcing of Materials - Finishing Elements	3				3	✓																								
4		Surface Water Run-off	1	2			1	✓																						
		Reduction of Surface Water Run-off from Site							1	1	✓																			
Flood Risk	1	1	✓																											
5				Waste		2	4	✓																						
	Household Waste Storage and Recycling Facilities	1	1	✓																										
	Construction Site Waste Management								1	1	✓																			
Composting	1				1	✓																								
6		Pollution		1			3	✓																						
		Global Warming Potential (GWP) of Insulants							1	3	✓																			
NOx Emissions	1	3	✓																											
7				Health and Wellbeing			3	✓																						
	Daylighting	4	1	✓																										
	Sound Insulation								4	1	✓																			
	Private Space											4	1	✓																
Lifetime Homes	4				1	✓																								
8		Management		1			1	3																						
		Home User Guide							1	1	3																			
		Considerate Construction Scheme										1	1	3																
	Construction Site Impacts	1			1	3																								
Security	1		1	3																										
9							Ecology		1	1	3																			
							Ecological Value of Site					1	1	3																
		Ecological Enhancements			1	1	3																							
	Protection of Ecological Features	1	1	3																										
	Change in Ecological Value of Site														3	1	2													
Building Footprint	3							1	2																					

LEVEL 0	Current Building Regulations	2007
LEVEL 1	36 Points	
LEVEL 2	48 Points	
LEVEL 3	57 Points	2008
LEVEL 4	68 Points	
LEVEL 5	84 Points	
LEVEL 6	90 Points	2015

104 Maximum

THE BUILD – PREPARATION

CONSTRUCTION SITE MANAGEMENT

BUILDING SITES ARE BUSY, NOISY, MESSY PLACES WHICH TRADITIONALLY CREATE A LOT OF WASTE. CODE ASSESSORS WILL BE LOOKING TO REWARD GOOD PRACTICE IN REDUCING THESE NUISANCES AND ENVIRONMENTAL IMPACTS. THE CODE RECOGNISES THAT THERE CAN BE A DIFFERENCE BETWEEN COMMITMENT AND IMPLEMENTATION, SO POINTS ARE AVAILABLE FOR BOTH.

GET FULL POINTS FOR ENVIRONMENTAL PROCEDURES

To get full points you or your building contractor will need:

- A site waste management plan with resource efficiency monitoring procedures and targets for each build stage as well as commitments and procedures to sort, re-use and recycle waste.
- Certification of practices with a good score under the Considerate Contractors Scheme or similar.
- Working site procedures for the prevention of pollution, the monitoring of CO₂ emissions and the monitoring and targeting of water use on site.

For the successful implementation everyone on the site will need to be aware of your environmental procedures and the site will need a coordinator with sufficient authority to ensure all the elements are working. The site waste management plan is a minimum requirement for the code if the construction value is over £200K.

Category
Management



PRE-CONSTRUCTION

Building a sustainable home isn't just about choosing the right materials and technologies to reduce the home's environmental impact. It's also about minimising the home's physical footprint, considering its location and how the occupiers' needs will change over time.

UNDERSTANDING THE ECOLOGICAL IMPACT

Understanding the ecological value of your chosen development site and incorporating protective measures during land clearance and building as well as enhancing the site's ecological value during landscaping could be the key to making your development sustainable.

The Code reward developers who do this, and the Local Authority Ecologist will be able to provide advice on the importance of your chosen site. Even if it turns out there is little ecological value to your site you will still earn points for establishing this.

Category
Ecology



BUILDING GOOD DESIGN IN FROM THE START

Around half of the additional points available under the Code are awarded for good design, not product specification. A design which allows for a home office to be set up, and for the home to be easily adaptable for the needs of older or disabled residents, will score well. Accessible private spaces and recycling areas will also gain points, and the inclusion of adequate waste storage in the design is a minimum requirement. The Architect needs to be aware of the Code for Sustainable Homes and Secured by Design and the Lifetime Homes Standard.

Category
Waste



Category
Health & Wellbeing



THE BUILD - STAGE 1: FOUNDATIONS AND GROUNDWORK

WE OFFER A RANGE OF SUSTAINABLE SYSTEMS FOR BOTH UNDERGROUND AND ABOVE GROUND USES WHICH ALLOW YOU TO MEET THE REQUIREMENTS OF THE CODE WITHOUT DEVALUING THE BUILD.

RAINWATER HARVESTING

Rainwater Harvesting can be a cost effective way of incorporating sustainability into the fabric of a new construction project. Many sites now have restrictions on the volume of water run-off. The incorporation of Rainwater Harvesting can assist by greatly reducing the volume of water going to waste from new developments.

Rainwater Harvesting can reduce domestic mains water consumption by up to 50%* and up to 85%* on commercial installations. The payback period can be as quick as three years on buildings with large roofs and a high non-potable water demand.

*dependent on precipitation levels



Category
Water Run-off 

Category
Water 

AVAILABLE FROM
KEYLINE & TRAVIS PERKINS

RAINTRAP

Raintrap is an easy to install underground rainwater storage and delivery system designed specifically for garden irrigation.

Raintrap collects rainwater from the roof via the existing guttering and downpipe system on the property. The integral leaf filter will remove unwanted debris washed down from the roof, thus ensuring good quality stored water.

The system is supplied with a 30 metre hose, connected to the integral water pump. A simple on/off switch will operate the pump, allowing it to deliver the stored water under pressure to where it is needed.

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



STORMWATER MANAGEMENT

Stormwater run-off that isn't properly managed can flow over impervious surfaces, picking up pollutants along the way and washing them into rivers and streams. Stormwater run-off can also cause flooding and erosion, destroy habitat and contribute to combined sewer overflows (CSOs).

We offer Stormwater Management systems which provide versatile and cost effective methods of controlling rainwater run-off from impermeable areas.



Category
Water Run-off



AVAILABLE FROM
KEYLINE & TRAVIS PERKINS



WAVIN AQUACELL

Stormwater exceeding the capacity of the conventional drainage system is attenuated by the control manhole and channelled into the AquaCell unit assembly. The internal structure of each unit is designed to bring surging water under control and hold it in temporary storage. If the wrap that envelopes the unit assembly is impermeable, the water will remain in the unit assembly until such a time as it can flow back into the control chamber and discharge through the outflow control.

However if the wrap is permeable, the temporarily stored water may be released into the surrounding ground, soil conditions permitting. By controlling the stormwater at source and recharging the local groundwater it not only eases the pressure on conventional drainage systems but benefits the local environment as well.

- Significantly reduced risk of flooding and its consequences
- Controlled and reduced volume discharge into existing main sewer systems and water courses
- Aerobic purification stimulated within the system improves water quality
- Sustainable, cost effective management of the water environment
- Recharging the local ground water
- BBA approved
- Meets the technical requirements of the NHBC

ENVIREAU DIRECT SYSTEM

The Direct System is suitable for both domestic and commercial applications.

This system is used where it is impractical to have a header tank and therefore filtered rainwater is pumped direct from the holding tank to the various appliances. When the holding tank is running dry there is a small automatic charge of mains water into the storage tank to ensure the system never runs completely dry.

The main advantage of this system is that rainwater is delivered to the appliances at mains pressure (3.5 bar).



THE BUILD - STAGE 1: FOUNDATIONS AND GROUNDWORK

GROUND FLOOR INSULATION

Ground floors can offer excellent thermal performance by including high levels of insulation without dramatically altering the building shape or geometry. Ground bearing floors can include insulation either below or above the concrete slab, dependent on the choice of the designer. If the insulation is installed below the slab, this acts as a thermal store, helping to maintain steady temperatures in the building. If it is installed above the slab, the building will respond much more quickly to the heating system. Floor insulation is of particular importance if installing under floor heating.

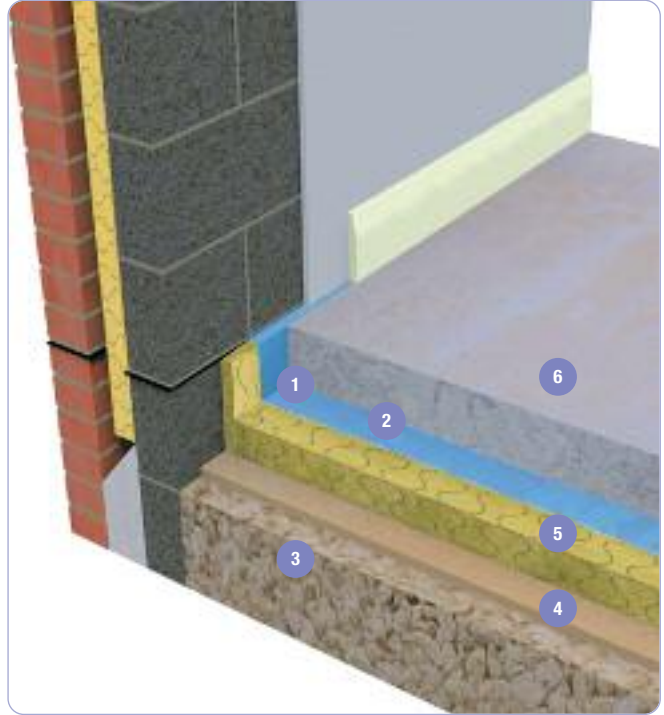
We offer a range of ground floor insulation for all product applications including mineral wool floor slab, Expanded Polystyrene (XPS) floorboard, Polyurethane (PUR), Polyisocyanurate (PIR) and VR Jabfloor 70.

- | | |
|------------------------|------------------|
| 1 Perimeter Insulation | 4 Blinding Layer |
| 2 Damp Proof Membrane | 5 Insulation |
| 3 Oversite / Hardcore | 6 Floor Slab |

Category
Energy & CO₂



AVAILABLE FROM
CCF, KEYLINE & TRAVIS PERKINS



GROUND SOURCE HEAT PUMPS

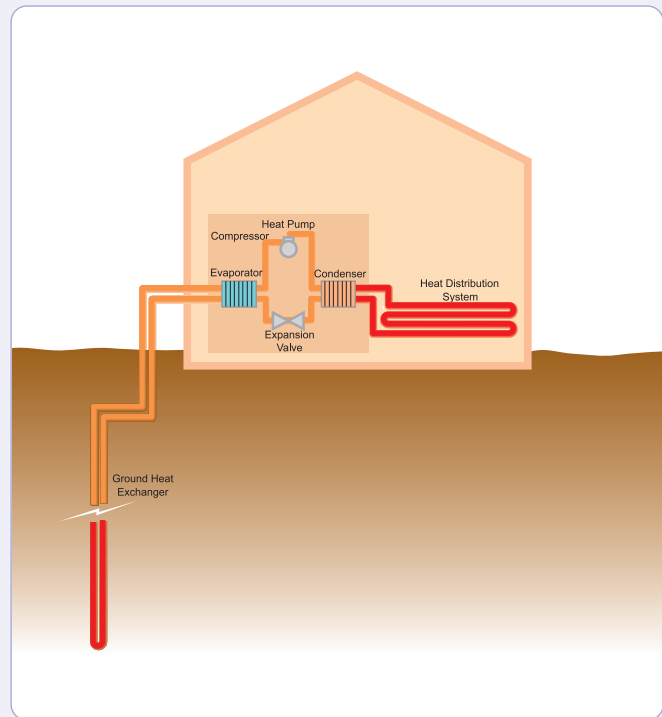
Ground source heat pumps use a buried ground loop which transfers heat from the ground into a building to provide space heating and, in some cases, to pre-heat domestic hot water.

- An extremely efficient way to heat a building – for every unit of electricity that is used to pump the heat, 3-4 units of heat are produced
- No external fuels are needed
- Underground temperature is fairly consistent all year round
- Once installed, it's quiet in operation, invisible and requires little or no maintenance

Category
Energy & CO₂



AVAILABLE FROM
CITY PLUMBING & TRAVIS PERKINS



NU-WAY ECOPART

HEAT PUMP FOR BEDROCK, GROUND AND LAKE HEAT SOURCE

The EcoPart provides an environmental heating solution for private houses, smaller properties and can be used to heat small swimming pools. The EcoPart has a 'footprint' of 600mm x 650mm and height of 1115mm.

- A heat pump designed for private houses and smaller properties
- Three sizes available in 230v 1ph: 5 / 8.5 and 10.5kW
- The solution for installations in an area with low ceiling height
- Silent running
- Incorporated in EcoPart is a patented intercooler ensuring high efficiency, economy and long life
- Suitable for single and double pipe systems, convectors and floor heating
- Built-in soft starter



THE BUILD - STAGE 2: BRICKS AND BLOCKS

A RANGE OF BRICKS AND BLOCKS SUITABLE FOR NEW-BUILD OR RENOVATION PROJECTS AND INDUSTRIAL OR DOMESTIC PREMISES FROM NEW BUILDS TO RENOVATION PROJECTS, WE HAVE EVERYTHING INCLUDING INSULATION MATERIALS TO COMPLETE THE JOB.

WALL INSULATION

There are many areas of domestic and commercial buildings that can be insulated to significantly reduce energy consumption, especially when combined with draught proofing, energy saving glazing and floor insulation.

- Heating costs are reduced, saving customers money
- Significantly reduces CO₂ emissions

CAVITY WALL INSULATION

Filling the gap between the two layers of the external walls could reduce heating costs by an average of 15%. Around a third of all the heat lost in an un-insulated building is lost through the walls.

SOLID WALL INSULATION

Solid walls lose even more heat than cavity walls; the only way to reduce this heat loss is to insulate them on the inside or the outside.

EXTERNAL WALL INSULATION

This involves applying a decorative, weatherproof insulating treatment (between 50 and 100mm) to the outside of a wall. This could save a homebuyer around £300 a year on energy bills and a three bedroom semi-detached house could save nearly 2.5 tonnes of CO₂ a year.

INTERNAL WALL INSULATION

Insulation/plaster board laminates or wooden battens in-filled with insulation or flexible linings to a total thickness of up to 90mm can be fitted to internal walls. This is cheaper than external wall insulation and could save between £95 and £300 a year on a homeowner's energy bill, depending on the type used.



- | | |
|----------------------------------|---|
| 1 Wall | 4 Brick or Blockwork External Leaf |
| 2 Internal Finish (Plasterboard) | 5 Full fill Mineral Wool Cavity (occasionally Expanded Polystyrene) |
| 3 Blockwork Internal Leaf | |



- | | |
|------------------------------------|---|
| 1 Sheathing Board | 5 Timberframe Insulation (usually mineral wool) |
| 2 Breather Membrane | 6 Vapour Control Layer |
| 3 Brick or Blockwork External Leaf | 7 Plasterboard / Internal Finish |
| 4 Residual Cavity | |

Category
Energy & CO₂



AVAILABLE FROM
CCF, KEYLINE & TRAVIS PERKINS



SOUND PROOFING

Acoustics are an important aspect of sustainability to maintain a pleasant and comfortable place to live. There are a number of products that improve the acoustics of a property both internally and externally and can reduce the likelihood of noise complaints from neighbours.

We stock a range of mineral wool and foam products from all the major manufacturers such as Knauf, Rockwool, Isover; along with others. We are able to offer solutions for roofs, walls and floors, and can advise on bespoke systems where required.

We can also advise on products for construction to Robust Details or to Pre Completion Testing, and can help ensure compliance to all building regulations as necessary.

Category
Health & Wellbeing 

AVAILABLE FROM CCF,
KEYLINE & TRAVIS PERKINS

DOUBLE-GLAZED WINDOWS

Up to 20% of heat in a building is lost through poor insulation in the window frames or through single glazed windows. Double glazing windows traps air between two panes of glass, creating an insulating barrier that reduces heat loss, noise and condensation:

- Can cut heating bills by £80 - £100 a year.

Category
Energy & CO₂ 

AVAILABLE FROM
TRAVIS PERKINS

BRICKS

Clay brick, has a long service life, is re-usable upon demolition and is completely inert. Clay can be recycled back into manufacture so wastage is minimal. Clay is taken mostly from quarries adjacent to the factories, often in the countryside, where the impact of transport is minimised.

While brick requires significant energy to produce, over its life the energy consumption is outweighed by the energy used by a building's occupiers. Clay brick has high thermal mass and low conductivity, contributing to the building's own efficiency.

We stock a wide variety of bricks from leading manufacturers such as Ibstock, who are continuously improving their environmental credentials and sustainability, and are fully supportive of the British Ceramic Confederation and the Brick Development Association Initiatives.

Category
Energy & CO₂ 

Category
Materials 

AVAILABLE FROM
KEYLINE & TRAVIS PERKINS

BLOCKS

The cellular structure of aircrete products ensures they offer excellent thermal insulation, so helping reduce the energy consumption of buildings, while also providing enhanced noise insulation between dwellings.

H+H Celcon's Thin-Joint system combines the use of energy-efficient lightweight aircrete blocks with quick-setting thin-joint mortar which speeds the construction process. It is recognised as a Modern Method of Construction (MMC) by the Housing Corporation. MMC focus on systems which speed the construction process, cut waste, minimise the effect of construction on the environment and create an energy-efficient home to live in.



Category
Energy & CO₂ 

Category
Materials 

AVAILABLE FROM
KEYLINE & TRAVIS PERKINS



THE BUILD - STAGE 3: ROOFING

WE STOCK A WIDE RANGE OF ENVIRONMENTALLY FOCUSED ROOFING MATERIALS AND CAN PROVIDE BESPOKE SOLUTIONS FOR ALL YOUR INSULATION REQUIREMENTS.

RAINWATER HARVESTING

By connecting roof drainage to water butts, rain water that would otherwise go down the drain or into the ground can be collected and re-used.

- Quick and easy way to re-use water
- Low maintenance
- Overflows to drain or soakaway when full



ECOLAKE 200 LITRE WATER BUTT

- Complete with Lid & Tap

Category
Water



AVAILABLE FROM CITY PLUMBING,
KEYLINE & TRAVIS PERKINS

SOLAR WATER HEATING

Solar panels or collectors fitted to the roof use heat collected from the sun to heat water. This technology is well developed with options to suit many applications.

There are 2 main types of solar panel/collector

- 1** Flat plate system – comprised of an absorber plate with a transparent cover to collect the sun's heat
 - 2** Evacuated tube system – comprised of a row of glass tubes each containing an absorber plate feeding into a manifold which transports the heated fluid
- Can provide almost all the hot water required in summer and about 1/3 for the rest of the year
 - The average domestic system reduces CO₂ by around 350kg per year and can cut £40 a year off hot water bills
 - Once it's set up, it needs little maintenance
 - A domestic system only needs 3-4m² of southeast to southwest facing roof space
 - Space may also be needed for an additional water cylinder

Category
Energy & CO₂



AVAILABLE FROM
CITY PLUMBING & TRAVIS PERKINS

TRUSSES

Recognising that timber is an important natural resource, we have an established timber purchasing policy, basing our commercial activities on responsibly managed forests. Much of our stock is certified to either FSC or PEFC standards which will allow you to meet the requirements of the Code.

Through our in-house manufacturing and preferred external suppliers we can offer trusses on a national basis.

- Manufactured to BS 5268 (2&3)
- A complete package, covering hipped roofs, attic trusses, special roof systems and loose infill material
- Full range of roof building ironmongery also available

Category
Materials



AVAILABLE FROM
KEYLINE & TRAVIS PERKINS

WORCESTER GREENSKIES FKC-1S SOLAR PACKAGE

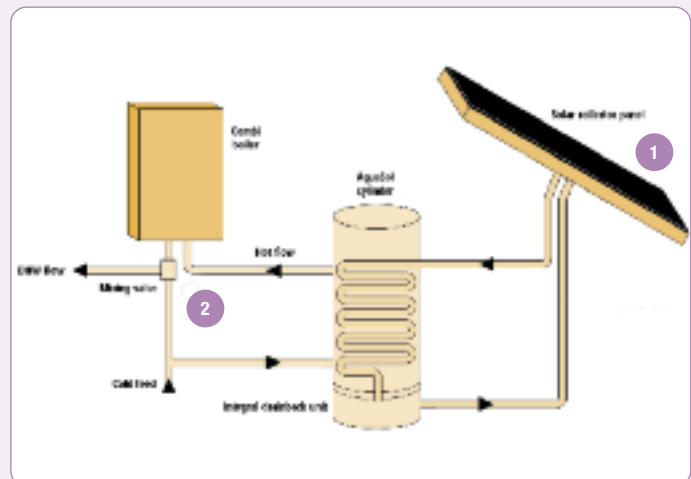


GLOW-WORM CLEARLY SOLAR MEDIUM FLAT PLATE BACK



FERROLI COMBI BOILER AQUASOL SOLAR KIT

- Aquacyl Kit 2 – contains Collector 42P, 42P Tile Flashing, Flowcon RF, Controller, 10 Litre Drain Back Unit and 250 Twin Coil Cylinder



- 1 Solar energy heats water in AquaSol combi cylinder. Combi cylinder incorporates integral drain-back unit
- 2 Pre-heated water from combi cylinder passes through the mixing valve before going to the tap or shower at correct temperature. Should the temperature not be sufficient, the combi boiler will fire to top it up



THE BUILD - STAGE 3: ROOFING

NATURAL LIGHTING

Natural light is an important aspect of any living environment and can help make a house feel like a real home. It has a highly positive effect on both physical and mental wellbeing and can even help to reduce heating costs.

VELUX SUN TUNNELS


Velux Sun Tunnel skylights are ideal for smaller rooms such as closets, hallways, laundry rooms and second baths. They add natural light to places where it would be impossible to have a window.



VELUX ROOF WINDOWS

Velux Roof Windows are highly versatile and bring light and a feeling of space to a room. They connect the interior space to the outside, change the ambience in an instant and can complement the overall look and feel of the design.



Category
Energy & CO₂ 

Category
Health & Wellbeing 

AVAILABLE FROM
TRAVIS PERKINS

ROOFING INSULATION

Pitched roofs can be insulated to create either warm or cold roof spaces. Insulation placed at flat ceiling level creates a cold roof space. This is the lowest cost option for insulating a roof and uses low cost, readily available glass wool quilt insulation. Very high levels of thermal insulation can be achieved because there is virtually no restriction on the thickness of insulation that can be installed. Insulation placed in the plane of the roof pitch creates a warm roof space. This allows the attic to be utilised as extra living space enhancing the value and desirability of the dwelling without significantly altering the building.

WARM ROOF SPACE

The PUR/ PIR range is specifically designed to provide simple solutions for overcoming localised thermal bridges and helps the overall energy efficiency of dwellings by limiting the amount of heat loss across the envelope of the building.

COLD ROOF SPACE

- Mineral wool insulation rolls are lightweight, flexible, resilient and non-combustible.
- We are now able to offer a carbon zero loft roll from Knauf insulation.

Category
Energy & CO₂ **1**

Category
Materials **3**

Category
Pollution **6**

AVAILABLE FROM
CCF, KEYLINE & TRAVIS PERKINS



THE BUILD - STAGE 4: FIRST FIX

WE STOCK A WIDE RANGE OF PLUMBING, ELECTRICAL AND TIMBER PRODUCTS SUITABLE FOR ALL APPLICATIONS, WHICH ALLOW YOU TO MEET THE REQUIREMENTS OF THE CODE.

UNDERFLOOR HEATING

A system of pipes under the floor is used to heat rooms in both domestic and commercial properties.

- Uses lower water temperatures which reduces energy consumption by up to 40%
- The low temperature suits heat pump systems
- Provides invisible heating
- Produces evenly distributed radiant heat which heats objects rather than the air and results in greater comfort.
- Less heat is lost
- Low maintenance

FULLY FLOATING FLOOR PRODUCTS

Floating Floor Panels are made from high-density extruded polystyrene with channels pre-cut into their upper surfaces, each containing an aluminium heat diffuser, ready to receive a heating pipe. A polyethylene film covers each panel to prevent 'ticking', it fixes the diffusers in place and protects the pipe channels. End panels also have pre-cut channels, looped to take heating pipe around the turns at minimum 240mm diameter to comply with BS 7291. The floating floor deck is supported by and in contact with, the heating panels. No air gaps remain which would reduce thermal performance and no plugging is required.

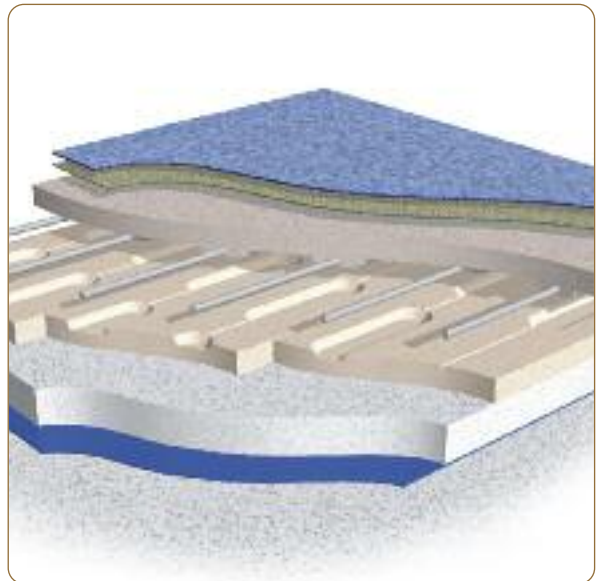
TIMBER JOIST PRODUCT

Batten/Joist Panels are formed from 50mm high density extruded polystyrene. Each panel has channels pre-cut into its upper surface at 200mm centres, with factory-fitted aluminium heat diffusers, ready to receive the heating pipe. A polyethylene film covers each panel, preventing the floors from 'ticking'. It fixes the diffusers in place and protects the pipe channels from grit and dirt ingress before installation.

SCREEDED FLOORS

Where the requirement is to create an Underfloor Heating system within a screed, either to keep costs low or for small/ irregularly shaped floor areas, the best solution is to hold the pipe in place with OSMA Screw Clips or OSMA Staples set below the screed and purchased separately. The choice of whether to use staples or screw clips is made according to type of insulation used.

- Screw clips - an excellent fixing into most forms of insulation
- Staples - a secure fixing into harder insulation types and offer quicker installation. Heating pipe can be set at any spacing or pattern at the installer's discretion



Category
Energy & CO₂



AVAILABLE FROM CITY PLUMBING
& TRAVIS PERKINS



INTERNAL WALL INSULATION

Insulation/plasterboard laminates or wooden battens in-filled with insulation or flexible linings to a total thickness of up to 90mm is fitted to internal walls. This is cheaper than external wall insulation and could save between £95 and £300 a year on a householder's, resident's or landlord's energy bill, depending on the type used.

Category
Energy & CO₂ **1**

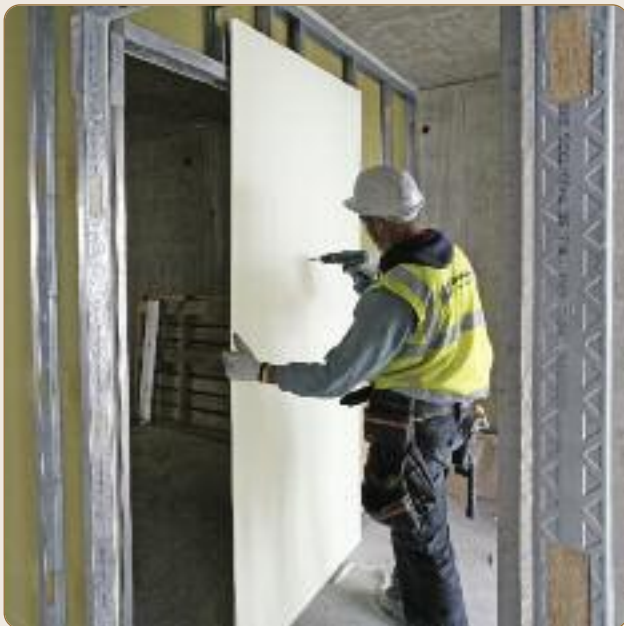
Category
Pollution **6**

AVAILABLE FROM TRAVIS PERKINS,
KEYLINE & CCF

PLASTERBOARD

Knauf Futurepanel is the UK's first carbon neutral plasterboard, combining excellent sound and fire resistance with 'green' credentials that are a positive response to the government's Code for Sustainable Homes.

Knauf Futurepanel is a premium plasterboard with a core made from at least 10% recycled gypsum and the rest from the most sustainable sources available. The liners are made from 100% recycled paper. Futurepanel is a 10kg/m² board and can be substituted for standard wallboard in partition and lining specifications, giving identical or better system performance.



Category
Materials **3**

AVAILABLE FROM
CCF, KEYLINE & TRAVIS PERKINS

SHEET MATERIALS & TIMBER

Travis Perkins timber, sheet materials and joinery purchases and sales are governed by controls in place at all our branches as part of our chain of custody certification.

Much of our stock is certified to either FSC or PEFC standards which will allow developers to meet the requirements of the Code.



Category
Materials **3**

AVAILABLE FROM
KEYLINE & TRAVIS PERKINS



THE BUILD - STAGE 5

THE SECOND FIX

WE STOCK A WIDE RANGE OF PRODUCTS TO COMPLETE ALL PROJECTS INCLUDING SANITARY AND BRASSWARE, BOILERS AND TIMBER.

HIGH EFFICIENCY CONDENSING BOILERS

A high efficiency condensing boiler works by recovering waste heat which is normally rejected to the atmosphere from the flue of a conventional (non-condensing) boiler. The best high efficiency condensing boilers convert more than 90% of their fuel into heat, compared to 78% for conventional types.

This is accomplished by using a larger heat exchanger or sometimes two heat exchangers within the boiler. As a result, the temperature of the gases exiting the flue of a condensing boiler is typically 50-60°C compared with 120-180°C in a current non-condensing boiler.

Being more efficient means heating costs are reduced, saving homeowners, landlords and residents money and significantly reducing their CO₂ emissions.

Category
Energy & CO₂ **1**

Category
Pollution **6**

AVAILABLE FROM CITY PLUMBING
& TRAVIS PERKINS

FERROLI OPTIMAX HE

- All models 330mm deep for UK kitchen wall units
- New fascia with LCD control panel and full diagnostic software
- New boiler valve arrangement with integral filling loop
- New motorised valve assembly with built-in automatic by-pass
- New plug-in styler timer
- Solar & underfloor compatible
- Outside temperature compensation



SEDBUK
A
RATED

5
year
guarantee

GLOW-WORM ULTRACOM

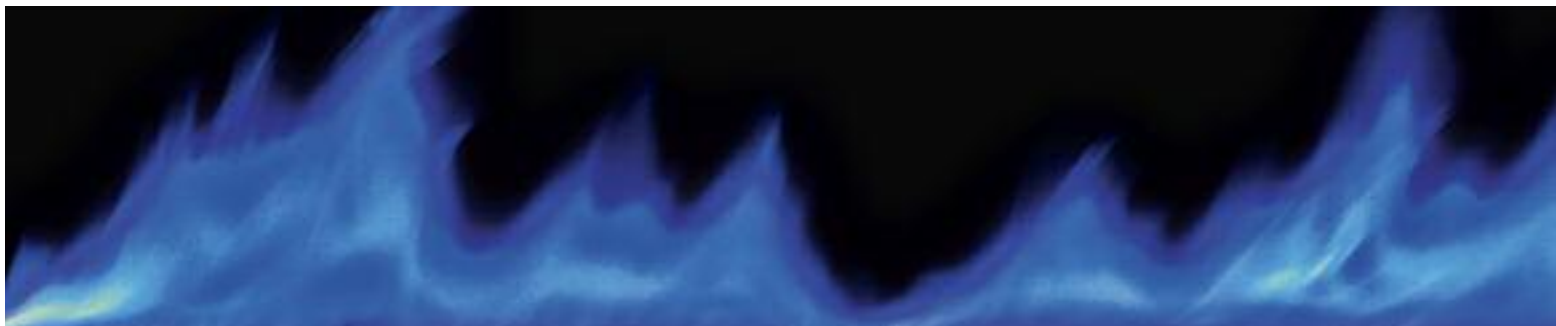
Top performance range of appliances with new inbuilt digital programmer and tried and tested stainless steel heat exchanger for the ultimate in home comfort.

- Range suitable for apartments to large detached 2 bathroom houses
- Combi, Open Vent and Sealed System models
- Stylish inbuilt digital controls providing 24 hour or 7 day time and temperature control
- Stainless steel heat exchanger
- All models LPG compatible without the need for a conversion kit



SEDBUK
A
RATED

2
year
guarantee



BIOMASS BOILERS

Stoves or boilers are used to heat rooms or water by burning biomass – waste organic materials directly from plants or indirect from industrial, commercial, domestic and agricultural products.

It is a carbon neutral process as the CO₂ released is balanced by that absorbed during the fuel's production. Biomass can also contribute to waste management by harnessing energy from products that are often disposed of at landfill sites.

Homeowners, residents and landlords could save around £200 a year in energy bills and around 8 tonnes of CO₂ per year. But unlike other forms of renewable energy, biomass systems require the homeowner to pay for the fuel. Fuel costs generally depend on the distance from the supplier and whether it is possible to buy in large quantities.

Category
Energy & CO₂



Category
Pollution



AVAILABLE FROM CITY PLUMBING
& TRAVIS PERKINS

NU-WAY ECOFLEX

DOMESTIC WOOD PELLET BOILER

The EcoFlex boiler is a highly efficient wood pellet boiler. An EcoFlex wood pellet boiler provides the same convenience of operation as an oil fired boiler but by burning wood pellets it does not add to the long term build-up of carbon dioxide in the atmosphere, considered a major factor in global warming.

- Compact design for easy insulation
- Automatic ignition and operation
- Separate connections for heating and domestic hot water circuits
- Designed for easy cleaning and maintenance
- Fully insulated to minimise local heat loss
- Simple and neat connection to pellet supply
- Can be supplied with stand-alone pellet hopper and automatic pellet feed system



VAILLANT ecoTEC PLUS COMBI

WALL HUNG

- AquaComfort system ensures instant hot water delivery
- Fully modulating fan
- Built-in bypass valve
- Built-in 2 speed pump
- 2yr guarantee



SEDBUK

A
RATED

2
year
guarantee



THE BUILD - STAGE 5

THE SECOND FIX

CENTRAL HEATING CONTROLS

If a property has only a simple mechanical thermostat installed, it won't reap the energy-saving benefits of a replacement high-efficiency condensing boiler as it will rarely be running in condensing mode. Switching to an on/off electronic room thermostat can reduce energy costs and carbon emissions by over 2%. With an electronic thermostat with chrono-proportional capability even closer temperature control is possible with potential reductions of 10% in both fuel cost and carbon emissions.

Category
Energy & CO₂



AVAILABLE FROM CITY PLUMBING
& TRAVIS PERKINS

HONEYWELL ST9400



AIR SOURCE HEAT PUMPS

Air source heat pumps operate using temperature differentials in the outside air. Heat is extracted from the air, retained and then converted into high-grade heat to be released through underfloor heating, radiators and into the hot water tank.

Fitted outside a building or in the roof space with only limited electrical and plumbing connections, the simple installation also gives significant cost benefits over ground source systems.

They generally perform better at slightly warmer air temperatures but can provide heating at air temperatures as low as -20°C. On average customers can save £400 - £800 on heating bills and 2 - 8 tonnes of CO₂ per year, dependent on the type of fuel being replaced.

Category
Energy & CO₂



AVAILABLE FROM CITY PLUMBING
& TRAVIS PERKINS

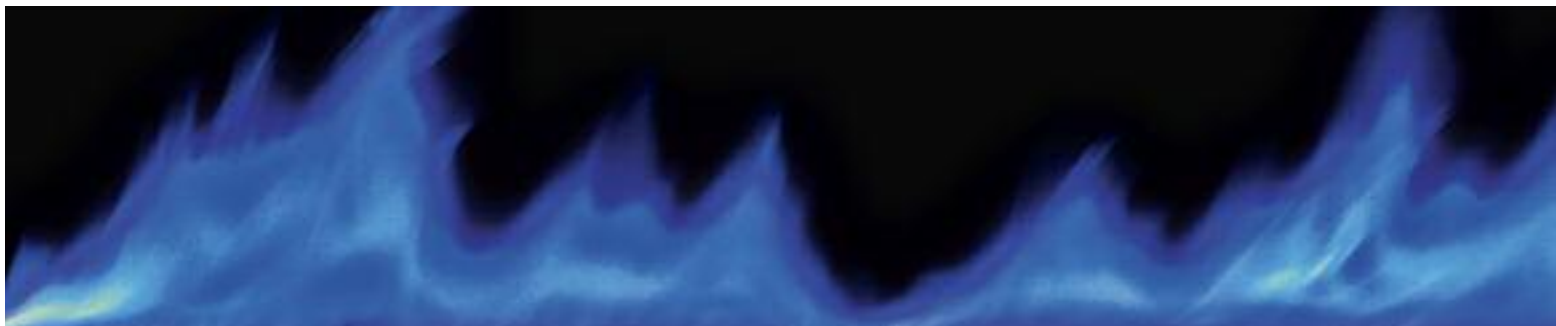
NU-WAY ECOAIR

AIR WATER HEAT PUMP FOR OUTDOOR INSTALLATION

The EcoAir is an air source heat pump which, integrated with an EcoEI, provides a complete heat pump solution for private houses and smaller properties. The EcoAir can also be used in conjunction with a new or existing heating boiler.

The heat pump is an air/water unit designed to extract low temperature heat from the surrounding air. The EcoAir is placed outside but usually close to the building being heated and has a 'footprint' of 500mm x 1200mm and, depending on output, varies from 1040mm to 1280mm in height.

- Provides, in conjunction with the EcoEI, heating and DHW down to outdoor temperatures of -15°C
- Equipped with a built-in control system to prevent freezing of the evaporator
- Easy to install, placed outdoors
- Economical operation all the year round
- High efficiency
- A wide field of application
- Scroll compressor with superior performance during winter-time
- Built-in soft starter



CENTRAL HEATING PUMPS

ALPHA PRO

The Grundfos Alpha Pro is fast and simple to install. Its installation flexibility gives the installer more room in the van by eliminating the need for several different pumps.

The Grundfos Alpha Pro operates as low as 6 watts in a typical home. This places it at the top of the A-range in the pump energy labelling scale.

We also stock a range of central heating pumps from Wilo.



Category Energy & CO₂ AVAILABLE FROM CITY PLUMBING & TRAVIS PERKINS

TRIANCO ACTIVAIR AIR SOURCE HEAT PUMPS



- High efficiency
- Compact & unobtrusive
- 3kW & 5kW output
- Low energy costs
- Provides high CO₂ emission savings
- Easy to install
- Flexible siting
- Digital remote programmer
- Latest compressor technology
- Incorporates circulating pump
- Competitively priced

HEAT PUMP CONTROLLERS

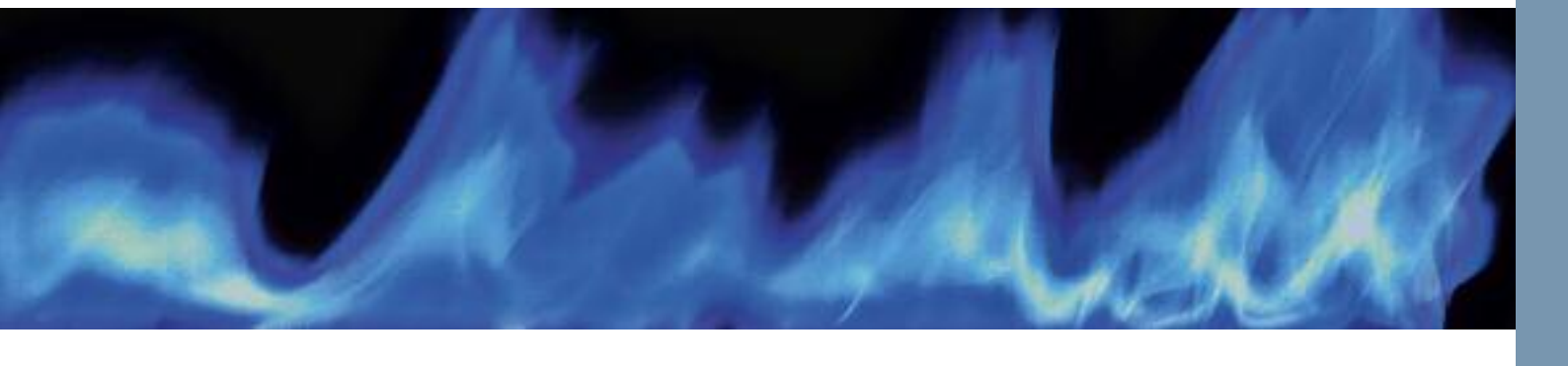
NU-WAY ECOLOGIC

HEAT PUMP CONTROLLER FOR BEDROCK, GROUND AND LAKE HEAT SOURCE

The EcoLogic is a complete control solution which handles the total supervision of the heat pump operation as well as the existing boiler. It is suitable for most heating boilers and water heating systems, including those without mixing valve operation. The EcoLogic is wall-mounted and is supplied with indoor, outdoor and primary flow sensors and required valves.



Category Energy & CO₂ AVAILABLE FROM CITY PLUMBING & TRAVIS PERKINS



THE BUILD - STAGE 5

THE SECOND FIX

TWIN COIL CYLINDERS

Twin coil cylinders are needed for use with solar and heat pumps. One coil is used for receiving the heat from the solar energy collector on the roof and the other coil is used to supply heat from the other main heat source when solar energy is insufficient.

Installers will have to use a different cylinder to those traditionally used, as they need to become more of a heat store, and will be bigger in size. Depending on the hot water demand they usually start from 550mm width by 1200mm height.

HEATRAE SADIA MEGAFLO

- High performance 'coil in coil' heat exchanger
- Exceeds CHeSS† Best Practice for recovery times and insulation
- CFC/HCFC free (ODP zero) foam injected insulation for maximum heat retention
- New water inlet controls increase flow rates by up to 35%
- Improved performance at low pressures down to 1 bar
- New installer-friendly design
- 25-year transferable cylinder guarantee

†Energy Efficiency Partnership: Central Heating System Specification

25
year
guarantee



SANTON PREMIERPLUS

- Mains pressure hot water for balanced supply to showers and mixers – no shower pump to consider
- High flow rates give improved hot water delivery
- Equally suited to new build or refurbishment projects
- High-grade stainless steel for longer life
- Flexible siting of cylinder installation
- Complete package incorporates safety and hot water controls
- 25 year cylinder guarantee
- Also available in Systemfit format – pre-plumbed and pre-wired for simple and quick on-site installation

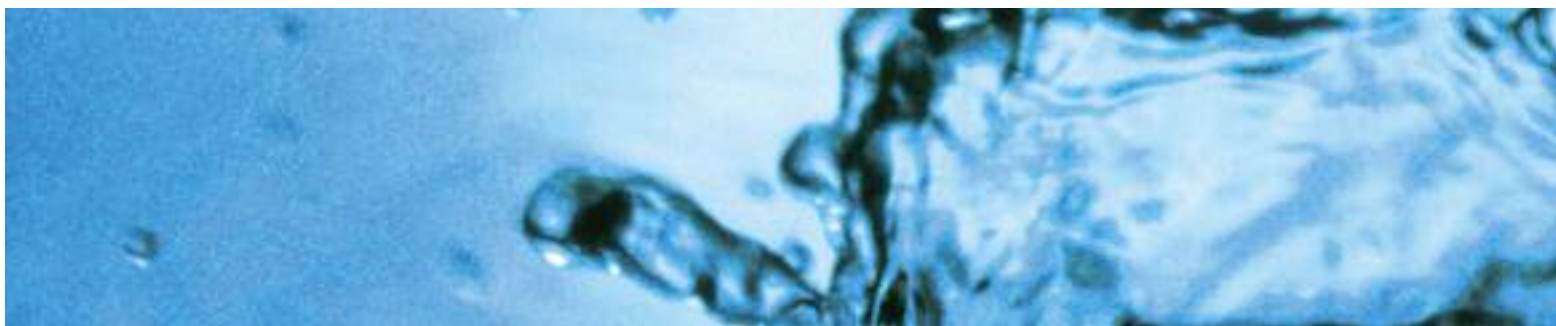
SANTON
25
YEAR
GUARANTEE



Category
Energy & CO₂



AVAILABLE FROM CITY PLUMBING
& TRAVIS PERKINS



SANITARY & BRASSWARE

By fitting a number of items that reduce the household water consumption you will achieve points within category 2.

Category
Water **2**

AVAILABLE FROM CITY PLUMBING & TRAVIS PERKINS

ROCA THESIS



Roca thesis is fitted with the innovative Ecodisk cartridge which acts as a flow regulator and a temperature control system, allowing the homeowner or tenant to choose between reduced or full flow water. This helps the environment by saving water and provides complete peace of mind by eliminating the chance of scalding. In addition to this, Thesis also includes an in-built flow regulator with a limit of 8 litres per minute for further water conservation.

LOW LITRE FLUSH TOILETS



The New Galerie Flushwise dual flush WC uses less than half the water of most toilets. According to UK Government figures, the average standard flush uses 9 litres of water. Galerie Flushwise uses 4 or 2.6 litres and leads the field for reducing water consumption.

LOW FLOW RATE SHOWERS



MIRA VIE

- Available in a choice of power ratings – 8.5kW, 9.5kW and high performance 10.8kW models
- ECO power setting uses less energy and water
- 2 year guarantee

All our bath suites have Category Standard 6/4 litre flush toilets. For information on our full range speak to your local branch. Examples of this are:

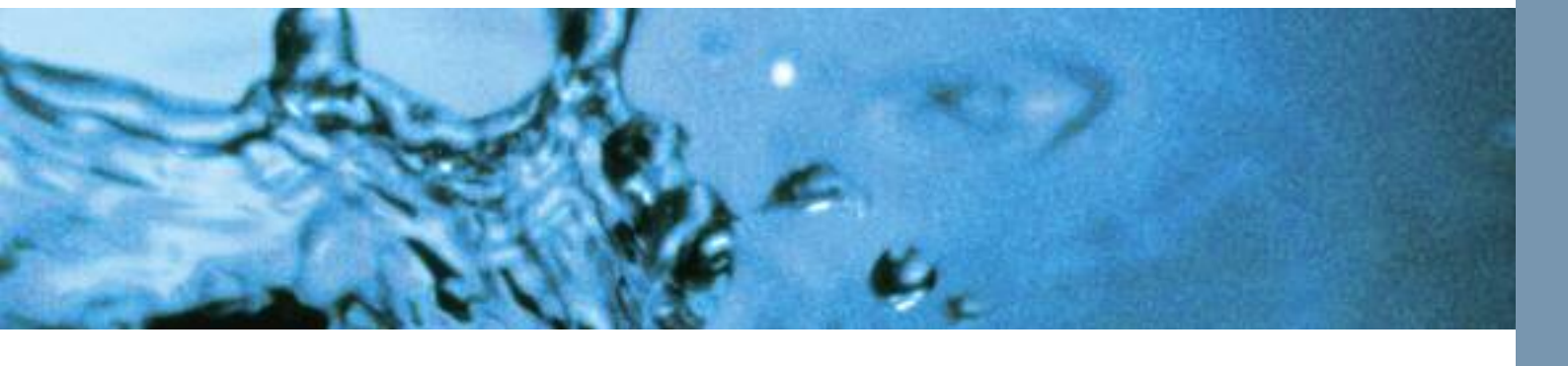
ROCA POLO



TWYFORD NEW GALERIE



KOHLER PATIO



THE BUILD - STAGE 5

THE SECOND FIX

FLOORING

We supply a range of different floorings from solid wood and laminate to stone and vinyl tiles. For full details see our Flooring Brochure.

Buying and selling timber in significant quantities comes with a social and environmental responsibility. We're committed to reducing our impact on the planet, working with suppliers and non-government environmental organisations to source our timber from renewable sources.

Category
Materials



AVAILABLE FROM
TRAVIS PERKINS

SCHÖNFLOOR

Schönfloor Solid Oak flooring is available in 80mm and 125mm widths and is a popular choice as the grade is clean enough to achieve a contemporary feel, but still has all the natural characteristics of a solid oak floor.



CHRISTINA MEYER

Christina Meyer only uses timber from FSC certified sources, to make their stunning floors. Each board has been made from nominated trees within managed and renewable forests, producing wood of the very highest quality.



TRANQUIL

A lightweight, one-part, underscreed system, offers a superior acoustic performance beyond existing solutions.



APPLIANCES

All our appliances are rated with the European Union Energy label. The label rates from A+-G, with A+ being the most efficient and G being the least. We have selected appliances that promote a high-energy efficiency rating to reduce household electricity consumption and enable you to achieve the required ratings in category 1 of the Code.

AEG AMERICAN FRIDGE FREEZER

- Stainless Steel
- Electronic controls
- Halogen light
- Multi Flow
- Ice and water dispenser
- Self closing doors
- 522 litre nett capacity
- Available on special order



ZANUSSI STAINLESS STEEL SINGLE FAN OVEN

- 3 functions
- Rotary oven controls
- Touch proof stainless steel
- Easy clean enamel interior



Category
Energy & CO₂ 

AVAILABLE FROM
BENCHMARK & TRAVIS PERKINS

ENERGY
A
RATED

TRICITY BENDIX 60cm WASHING MACHINE

- White
- 5KG Wash Load
- 21 Programmes
- 1100rpm



ZANUSSI 45cm FULLY INTEGRATED DISHWASHER

- Push button controls
- 9 place settings
- 5 Programmes
- Residual drying
- Height adjustable baskets
- 1 fixed & 2 folding cup shelves
- 14 litres water consumption
- 53 dBA



THERMOSTATIC RADIATOR VALVES

Fitting thermostatic radiator valves will allow the temperature to be controlled accurately in each room where they are fitted. As the room heats up to a preset temperature, the valve will gradually close, reducing the amount of heat given out. As the room requires more heat, the valve opens, allowing more hot water in to the radiator. This can save considerable amounts of energy and cost by preventing some rooms in the home from becoming overheated.



iflo 15mm ANGLED TRV

Category
Energy & CO₂ 

AVAILABLE FROM CITY PLUMBING
& TRAVIS PERKINS

ENERGY EFFICIENT LIGHTING & FITTINGS

Efficiencies of up to 80% can be achieved by fitting compact fluorescent lighting which is now available in many shapes and sizes. Dimmer compatible energy saving bulbs are also now available, and for new homes dedicated fixings for energy saving bulbs should be considered.

Lower wattage outside security lighting, combined with movement sensors, will further reduce the home's carbon footprint.

Category
Energy & CO₂ 

AVAILABLE FROM
TRAVIS PERKINS



THE BUILD - STAGE 5

THE SECOND FIX

HOUSEHOLD RECYCLING CENTRES

Installing internal storage bins ensures the household has the facilities to recycle and will provide points on category 5 waste.

Category
Waste



AVAILABLE FROM
BENCHMARK & TRAVIS PERKINS

SPACE SAVING TRIPLE WASTE BIN



AUTOMATIC PULL-OUT DOUBLE BIN



3 WAY RECYCLING BIN



DOORS, ARCHITRAVES & SKIRTING

Our timber buying policy and desire to ensure only timber from responsible sources is used, extends into second fix materials even when they may be highly engineered and composite products, making timber traceability harder. Please ask in branch about our range of FSC and PEFC certificated products in this category.

Category
Materials



AVAILABLE FROM KEYLINE
& TRAVIS PERKINS



HOUSE USER GUIDE

The modern sustainable home will have some features and benefits that are unfamiliar to future owners or occupiers, for example, heat pumps or solar hot water heating. In addition, there are many other improvements that owners can make themselves, such as buying and installing A+ certified white goods, recycling waste and using public transport to further reduce their new home's environmental impact.

As part of your sales and marketing strategy, it's worth considering producing a home user guide that points out in non technical language:

- How the new home works
- How it saves money and reduces environmental impact
- What sort of products customers should install and use for diy repairs
- How, by small lifestyle changes they can further contribute to sustainability

Its also a good way of securing code points and will demonstrate your commitment to reducing your housing product's environmental impact well into the future.

Category
Management



THE BUILD - STAGE 6: LANDSCAPING

OUR WIDE RANGE OF LANDSCAPING PRODUCTS ENABLE YOU TO CREATE AN IDEAL OUTDOOR LIVING SPACE WHILST MEETING THE REQUIREMENTS OF THE CODE.

SURFACE WATER DRAINAGE

Rainfall patterns are changing, resulting in longer dry spells and the depletion of natural watercourses. This, compounded by shorter, heavier bursts of rainfall, results in heavy volumes of water over short periods of time. Add to this the constant increase in hard standing surfaces as a result of urban development, and the result is an unsustainable increase in water run-off and a reduction in the overall natural water resources available to us.

Using surface water drainage products in conjunction with the stormwater management systems featured in the Foundations and Groundwork section will ensure the control of rainwater run-off from impermeable areas.

PRIORA® BLOCK PAVING

The unique patented design of the Piora® block creates voids at the joints, allowing surface water to pass naturally through into a specially calculated sub-base without compromising the integrity of the driveway, while substantially reducing the risk of pollution and flooding in the sewer systems.

Category
Water Run-off 

AVAILABLE FROM
KEYLINE & TRAVIS PERKINS

ACO RAINDRAIN PLUS™

ACO RainDrain Plus™ is a versatile domestic polymer concrete channel system, particularly suitable for block paving applications.

- Traditional channel and grate appearance
- Lightweight, quick and easy to install
- Clip locking gratings
- Choice of galvanised steel grating for pedestrian areas and domestic drives, and cast iron gratings for light vehicle traffic
- Extended range of suitable applications
- Fully certified and CE marked to BS EN 1433:2002 Load Class A15 & B125
- B125 Load Class only with cast iron grating



ACO GROUNDGUARD

The award-winning lightweight ground reinforcement system. Ideal for stabilising grass or gravel, it helps eliminate the risks of pot holes, rutting or grass damage. The system is suitable for a wide variety of applications including paths, drives, parking areas and emergency access routes.

Ideal for a wide variety of applications – vehicle and pedestrian traffic, fire access lanes and parking areas.

- Lightweight – just 1kg per piece
- Easy to handle and install – simple clip-together fixings
- Easily cut to shape for irregular edging
- Cost effective solution – competitive with asphalt or block paving
- Suitable for gradients up to 5% or steeper when pegged
- Eliminates gravel migration and raking



GROUND GRID

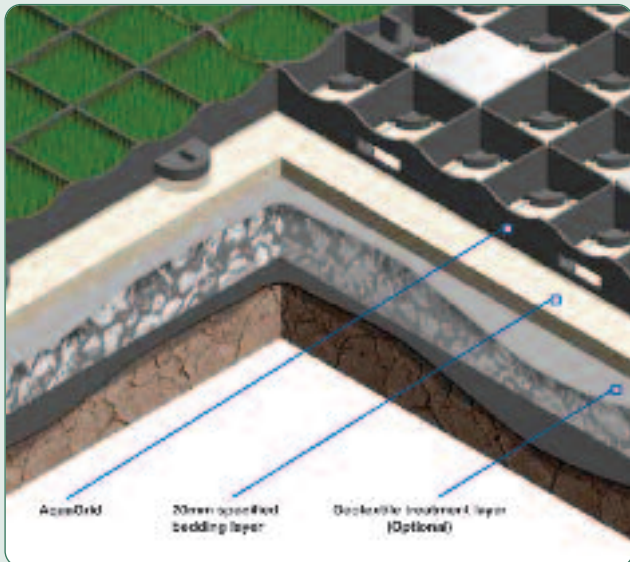


WAVIN AQUAGRID

AquaGrid is a high performance plastic pervious paving system for use in all types of Sustainable Drainage Systems (SUDS).

The AquaGrid system provides benefits over traditional forms of grass protection and gravel retention systems such as:

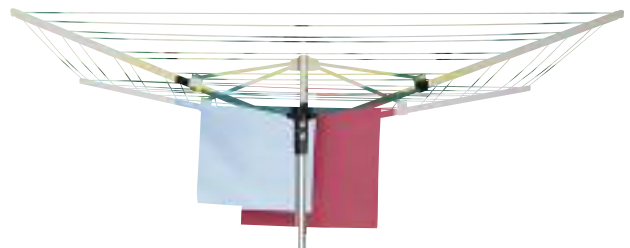
- Interlocking and pinning arrangement
- Inter-connecting modular units
- Lateral flow capability
- 90% surface area available for infill
- Demarcation Blocks available for identification of car park areas



WASHING LINES

Helps to meet the requirements of the code by drying clothes rather than using a tumble dryer

- Strong easy-clean line
- Weatherproof durable galvanised steel
- Ideal for medium (40m & 35m) or small (30m) family wash



THE BUILD - STAGE 6: LANDSCAPING

BIKE STORAGE

Sheds can provide extra storage space for bikes and other items. They are quick and easy to assemble, are delivered pre-treated and include a 10 year manufacturer's anti-rot guarantee.

OVERLAP SHED APEX ROOF

Based on the best selling traditional design, this shed provides additional security with a pad bolt. Available with or without window.



This product has been surface-treated with a preservative, giving a guaranteed service life of 10 years, subject to correct installation and to being isolated from direct contact with the ground. Dip Treated fence panels should be isolated from the ground by means of Pressure Treated or concrete gravel board.

Category
Materials **3**

Category
Energy & CO₂ **1**

AVAILABLE FROM
KEYLINE & TRAVIS PERKINS

COMPOSTING

Developers who provide home composting facilities in houses with gardens suitable for normal domestic non-woody garden, food and other compostable household wastes will be awarded points under category 5.

Category
Waste



AVAILABLE FROM
TRAVIS PERKINS

FENCE PANELS

Providing even partially private outside space to a home is seen to add improved health and wellbeing.

As with all of our timber products, our purchasing and sales policy on fence panels is governed by controls in place at all our branches, as part of our chain of custody certification. All of our stock is certified to either FSC or PEFC standards which will allow you to meet the requirements of the code.



This product has been pressure-impregnated with a preservative, giving a guaranteed service life of 15 years. Subject to correct installation.

Category
Materials **3**

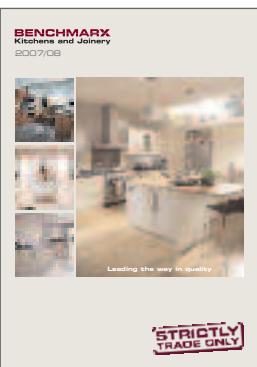
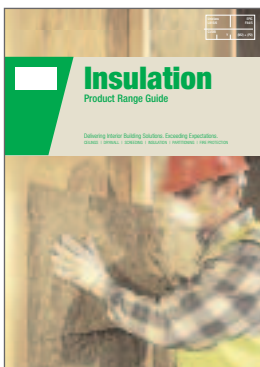
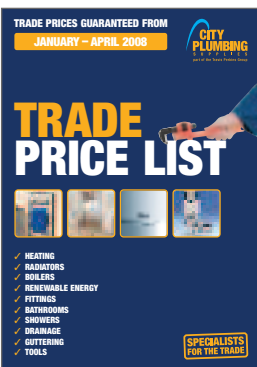
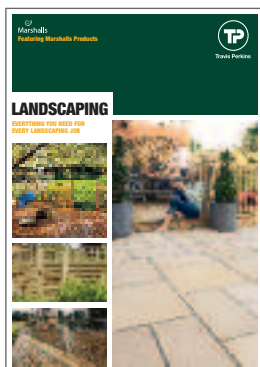
Category
Health & Wellbeing **7**

AVAILABLE FROM
KEYLINE & TRAVIS PERKINS



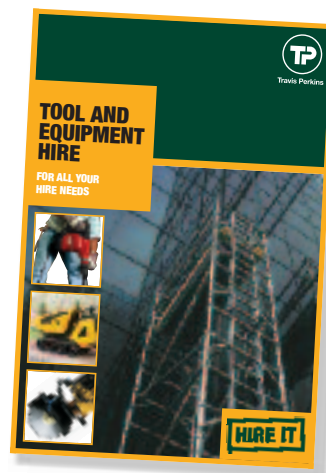
TRAVIS PERKINS GROUP LITERATURE

BELOW IS A SELECTION OF THE DIFFERENT BROCHURES AVAILABLE FROM OUR TRADE MERCHANT BRANDS THAT PROVIDE FURTHER INFORMATION ON THE PRODUCT RANGES THAT WILL HELP YOU COMPLY WITH THE CODE FOR SUSTAINABLE HOMES.



PICK UP A COPY OF OUR TOOL AND EQUIPMENT HIRE GUIDE

- **Large range of quality products** – from leading brand manufacturers
- **5-Star Safety Service** – we put safety first, so every piece of our hire equipment is fully and regularly serviced, maintained and tested
- **One call for all your hire needs** – our new national Direct Hire service gives account holders access to a countrywide choice of equipment
- **Guaranteed 4 hour delivery** – on in-stock items within 20 miles*
- **Member of Hire Association Europe**



FOR ALL YOUR HIRE NEEDS VISIT YOUR LOCAL BRANCH OR CALL

0870 607 8700

*subject to availability



THE BUILD - STAGE 4: FIRST FIX

WE STOCK A WIDE RANGE OF PLUMBING, ELECTRICAL AND TIMBER PRODUCTS SUITABLE FOR ALL APPLICATIONS, WHICH ALLOW YOU TO MEET THE REQUIREMENTS OF THE CODE.

UNDERFLOOR HEATING

A system of pipes under the floor is used to heat rooms in both domestic and commercial properties.

- Uses lower water temperatures which reduces energy consumption by up to 40%
- The low temperature suits heat pump systems
- Provides invisible heating
- Produces evenly distributed radiant heat which heats objects rather than the air and results in greater comfort.
- Less heat is lost
- Low maintenance

FULLY FLOATING FLOOR PRODUCTS

Floating Floor Panels are made from high-density extruded polystyrene with channels pre-cut into their upper surfaces, each containing an aluminium heat diffuser, ready to receive a heating pipe. A polyethylene film covers each panel to prevent 'ticking', it fixes the diffusers in place and protects the pipe channels. End panels also have pre-cut channels, looped to take heating pipe around the turns at minimum 240mm diameter to comply with BS 7291. The floating floor deck is supported by and in contact with, the heating panels. No air gaps remain which would reduce thermal performance and no plugging is required.

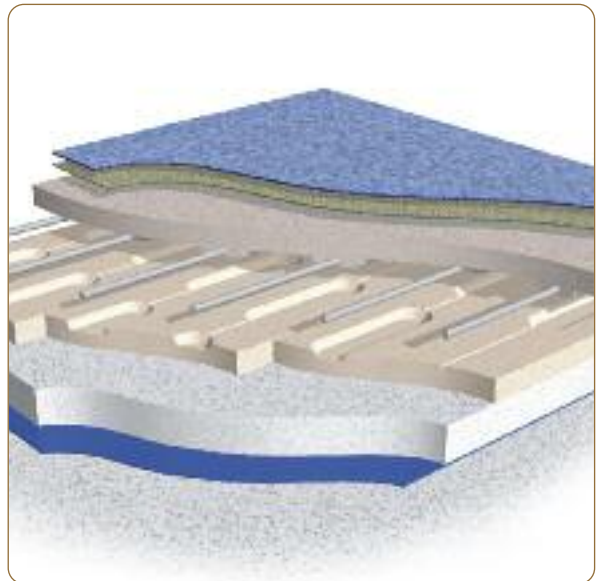
TIMBER JOIST PRODUCT

Batten/Joist Panels are formed from 50mm high density extruded polystyrene. Each panel has channels pre-cut into its upper surface at 200mm centres, with factory-fitted aluminium heat diffusers, ready to receive the heating pipe. A polyethylene film covers each panel, preventing the floors from 'ticking'. It fixes the diffusers in place and protects the pipe channels from grit and dirt ingress before installation.

SCREEDED FLOORS

Where the requirement is to create an Underfloor Heating system within a screed, either to keep costs low or for small/ irregularly shaped floor areas, the best solution is to hold the pipe in place with OSMA Screw Clips or OSMA Staples set below the screed and purchased separately. The choice of whether to use staples or screw clips is made according to type of insulation used.

- Screw clips - an excellent fixing into most forms of insulation
- Staples - a secure fixing into harder insulation types and offer quicker installation. Heating pipe can be set at any spacing or pattern at the installer's discretion



Category
Energy & CO₂



AVAILABLE FROM CITY PLUMBING
& TRAVIS PERKINS



INTERNAL WALL INSULATION

Insulation/plasterboard laminates or wooden battens in-filled with insulation or flexible linings to a total thickness of up to 90mm is fitted to internal walls. This is cheaper than external wall insulation and could save between £95 and £300 a year on a householder's, resident's or landlord's energy bill, depending on the type used.

Category
Energy & CO₂ **1**

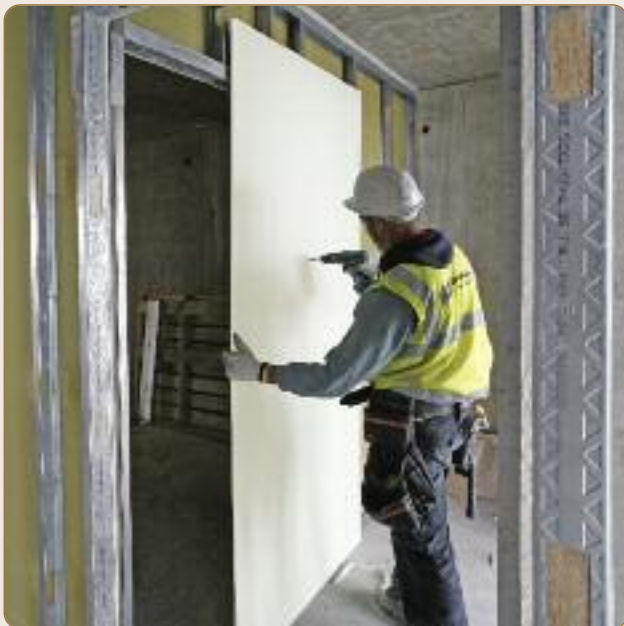
Category
Pollution **6**

AVAILABLE FROM TRAVIS PERKINS,
KEYLINE & CCF

PLASTERBOARD

Knauf Futurepanel is the UK's first carbon neutral plasterboard, combining excellent sound and fire resistance with 'green' credentials that are a positive response to the government's Code for Sustainable Homes.

Knauf Futurepanel is a premium plasterboard with a core made from at least 10% recycled gypsum and the rest from the most sustainable sources available. The liners are made from 100% recycled paper. Futurepanel is a 10kg/m² board and can be substituted for standard wallboard in partition and lining specifications, giving identical or better system performance.



Category
Materials **3**

AVAILABLE FROM
CCF, KEYLINE & TRAVIS PERKINS

SHEET MATERIALS & TIMBER

Travis Perkins timber, sheet materials and joinery purchases and sales are governed by controls in place at all our branches as part of our chain of custody certification.

Much of our stock is certified to either FSC or PEFC standards which will allow developers to meet the requirements of the Code.



Category
Materials **3**

AVAILABLE FROM
KEYLINE & TRAVIS PERKINS



THE BUILD - STAGE 5

THE SECOND FIX

WE STOCK A WIDE RANGE OF PRODUCTS TO COMPLETE ALL PROJECTS INCLUDING SANITARY AND BRASSWARE, BOILERS AND TIMBER.

HIGH EFFICIENCY CONDENSING BOILERS

A high efficiency condensing boiler works by recovering waste heat which is normally rejected to the atmosphere from the flue of a conventional (non-condensing) boiler. The best high efficiency condensing boilers convert more than 90% of their fuel into heat, compared to 78% for conventional types.

This is accomplished by using a larger heat exchanger or sometimes two heat exchangers within the boiler. As a result, the temperature of the gases exiting the flue of a condensing boiler is typically 50-60°C compared with 120-180°C in a current non-condensing boiler.

Being more efficient means heating costs are reduced, saving homeowners, landlords and residents money and significantly reducing their CO₂ emissions.

Category Energy & CO ₂ 	Category Pollution 	AVAILABLE FROM CITY PLUMBING & TRAVIS PERKINS
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FERROLI OPTIMAX HE

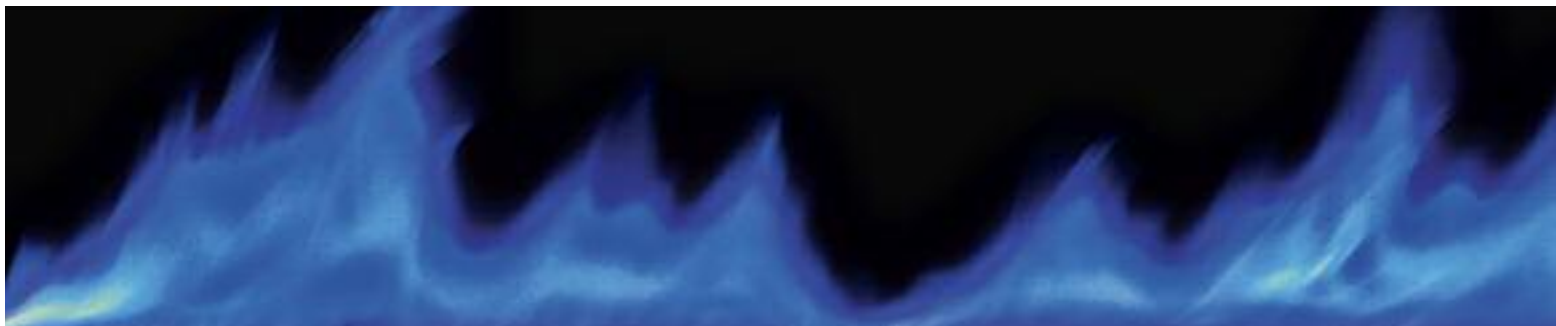
- All models 330mm deep for UK kitchen wall units
- New fascia with LCD control panel and full diagnostic software
- New boiler valve arrangement with integral filling loop
- New motorised valve assembly with built-in automatic by-pass
- New plug-in styler timer
- Solar & underfloor compatible
- Outside temperature compensation



GLOW-WORM ULTRACOM

Top performance range of appliances with new inbuilt digital programmer and tried and tested stainless steel heat exchanger for the ultimate in home comfort.

- Range suitable for apartments to large detached 2 bathroom houses
- Combi, Open Vent and Sealed System models
- Stylish inbuilt digital controls providing 24 hour or 7 day time and temperature control
- Stainless steel heat exchanger
- All models LPG compatible without the need for a conversion kit



BIOMASS BOILERS

Stoves or boilers are used to heat rooms or water by burning biomass – waste organic materials directly from plants or indirect from industrial, commercial, domestic and agricultural products.

It is a carbon neutral process as the CO₂ released is balanced by that absorbed during the fuel's production. Biomass can also contribute to waste management by harnessing energy from products that are often disposed of at landfill sites.

Homeowners, residents and landlords could save around £200 a year in energy bills and around 8 tonnes of CO₂ per year. But unlike other forms of renewable energy, biomass systems require the homeowner to pay for the fuel. Fuel costs generally depend on the distance from the supplier and whether it is possible to buy in large quantities.

Category
Energy & CO₂



Category
Pollution



AVAILABLE FROM CITY PLUMBING
& TRAVIS PERKINS

NU-WAY ECOFLEX

DOMESTIC WOOD PELLET BOILER

The EcoFlex boiler is a highly efficient wood pellet boiler. An EcoFlex wood pellet boiler provides the same convenience of operation as an oil fired boiler but by burning wood pellets it does not add to the long term build-up of carbon dioxide in the atmosphere, considered a major factor in global warming.

- Compact design for easy insulation
- Automatic ignition and operation
- Separate connections for heating and domestic hot water circuits
- Designed for easy cleaning and maintenance
- Fully insulated to minimise local heat loss
- Simple and neat connection to pellet supply
- Can be supplied with stand-alone pellet hopper and automatic pellet feed system



VAILLANT ecoTEC PLUS COMBI

WALL HUNG

- AquaComfort system ensures instant hot water delivery
- Fully modulating fan
- Built-in bypass valve
- Built-in 2 speed pump
- 2yr guarantee



SEDBUK

A
RATED

2
year
guarantee



THE BUILD - STAGE 5

THE SECOND FIX

CENTRAL HEATING CONTROLS

If a property has only a simple mechanical thermostat installed, it won't reap the energy-saving benefits of a replacement high-efficiency condensing boiler as it will rarely be running in condensing mode. Switching to an on/off electronic room thermostat can reduce energy costs and carbon emissions by over 2%. With an electronic thermostat with chrono-proportional capability even closer temperature control is possible with potential reductions of 10% in both fuel cost and carbon emissions.

Category
Energy & CO₂



AVAILABLE FROM CITY PLUMBING
& TRAVIS PERKINS

HONEYWELL ST9400



AIR SOURCE HEAT PUMPS

Air source heat pumps operate using temperature differentials in the outside air. Heat is extracted from the air, retained and then converted into high-grade heat to be released through underfloor heating, radiators and into the hot water tank.

Fitted outside a building or in the roof space with only limited electrical and plumbing connections, the simple installation also gives significant cost benefits over ground source systems.

They generally perform better at slightly warmer air temperatures but can provide heating at air temperatures as low as -20°C. On average customers can save £400 - £800 on heating bills and 2 - 8 tonnes of CO₂ per year, dependent on the type of fuel being replaced.

Category
Energy & CO₂



AVAILABLE FROM CITY PLUMBING
& TRAVIS PERKINS

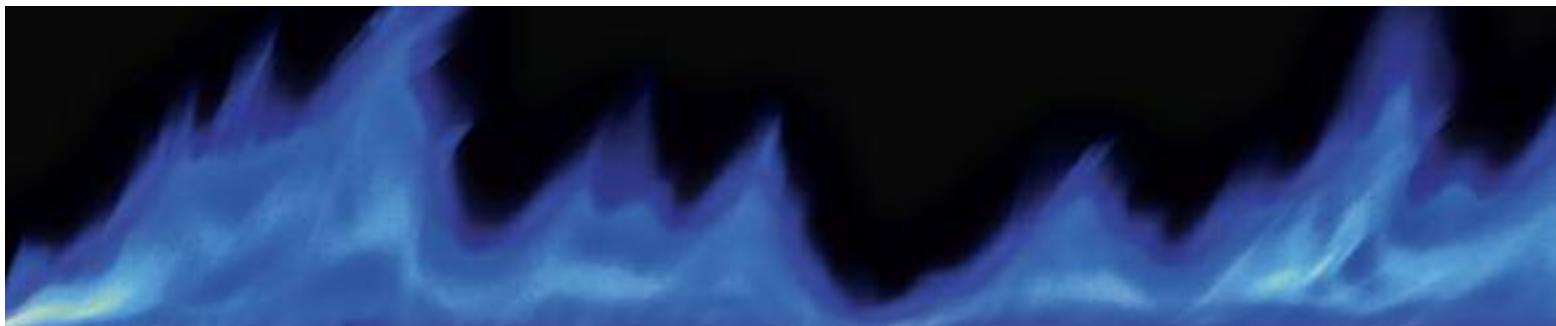
NU-WAY ECOAIR

AIR WATER HEAT PUMP FOR OUTDOOR INSTALLATION

The EcoAir is an air source heat pump which, integrated with an EcoEI, provides a complete heat pump solution for private houses and smaller properties. The EcoAir can also be used in conjunction with a new or existing heating boiler.

The heat pump is an air/water unit designed to extract low temperature heat from the surrounding air. The EcoAir is placed outside but usually close to the building being heated and has a 'footprint' of 500mm x 1200mm and, depending on output, varies from 1040mm to 1280mm in height.

- Provides, in conjunction with the EcoEI, heating and DHW down to outdoor temperatures of -15°C
- Equipped with a built-in control system to prevent freezing of the evaporator
- Easy to install, placed outdoors
- Economical operation all the year round
- High efficiency
- A wide field of application
- Scroll compressor with superior performance during winter-time
- Built-in soft starter



CENTRAL HEATING PUMPS

ALPHA PRO

The Grundfos Alpha Pro is fast and simple to install. Its installation flexibility gives the installer more room in the van by eliminating the need for several different pumps.

The Grundfos Alpha Pro operates as low as 6 watts in a typical home. This places it at the top of the A-range in the pump energy labelling scale.

We also stock a range of central heating pumps from Wilo.



Category Energy & CO₂  AVAILABLE FROM CITY PLUMBING & TRAVIS PERKINS

TRIANCO ACTIVAIR AIR SOURCE HEAT PUMPS



- High efficiency
- Compact & unobtrusive
- 3kW & 5kW output
- Low energy costs
- Provides high CO₂ emission savings
- Easy to install
- Flexible siting
- Digital remote programmer
- Latest compressor technology
- Incorporates circulating pump
- Competitively priced

HEAT PUMP CONTROLLERS

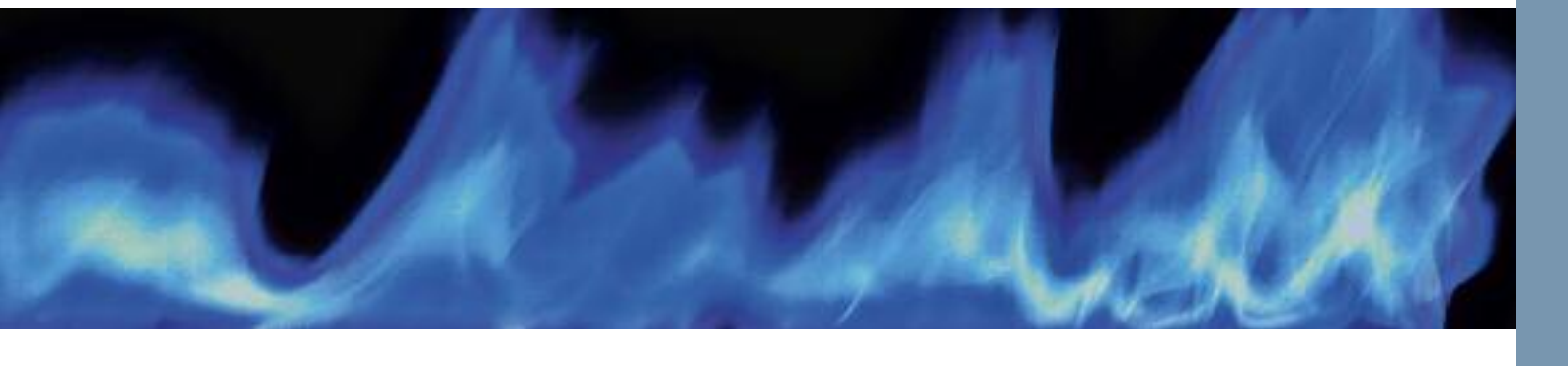
NU-WAY ECOLOGIC

HEAT PUMP CONTROLLER FOR BEDROCK, GROUND AND LAKE HEAT SOURCE

The EcoLogic is a complete control solution which handles the total supervision of the heat pump operation as well as the existing boiler. It is suitable for most heating boilers and water heating systems, including those without mixing valve operation. The EcoLogic is wall-mounted and is supplied with indoor, outdoor and primary flow sensors and required valves.



Category Energy & CO₂  AVAILABLE FROM CITY PLUMBING & TRAVIS PERKINS



THE BUILD - STAGE 5

THE SECOND FIX

TWIN COIL CYLINDERS

Twin coil cylinders are needed for use with solar and heat pumps. One coil is used for receiving the heat from the solar energy collector on the roof and the other coil is used to supply heat from the other main heat source when solar energy is insufficient.

Installers will have to use a different cylinder to those traditionally used, as they need to become more of a heat store, and will be bigger in size. Depending on the hot water demand they usually start from 550mm width by 1200mm height.

HEATRAE SADIA MEGAFLO

- High performance 'coil in coil' heat exchanger
- Exceeds CHES† Best Practice for recovery times and insulation
- CFC/HCFC free (ODP zero) foam injected insulation for maximum heat retention
- New water inlet controls increase flow rates by up to 35%
- Improved performance at low pressures down to 1 bar
- New installer-friendly design
- 25-year transferable cylinder guarantee

†Energy Efficiency Partnership: Central Heating System Specification

25
year
guarantee



SANTON PREMIERPLUS

- Mains pressure hot water for balanced supply to showers and mixers – no shower pump to consider
- High flow rates give improved hot water delivery
- Equally suited to new build or refurbishment projects
- High-grade stainless steel for longer life
- Flexible siting of cylinder installation
- Complete package incorporates safety and hot water controls
- 25 year cylinder guarantee
- Also available in Systemfit format – pre-plumbed and pre-wired for simple and quick on-site installation

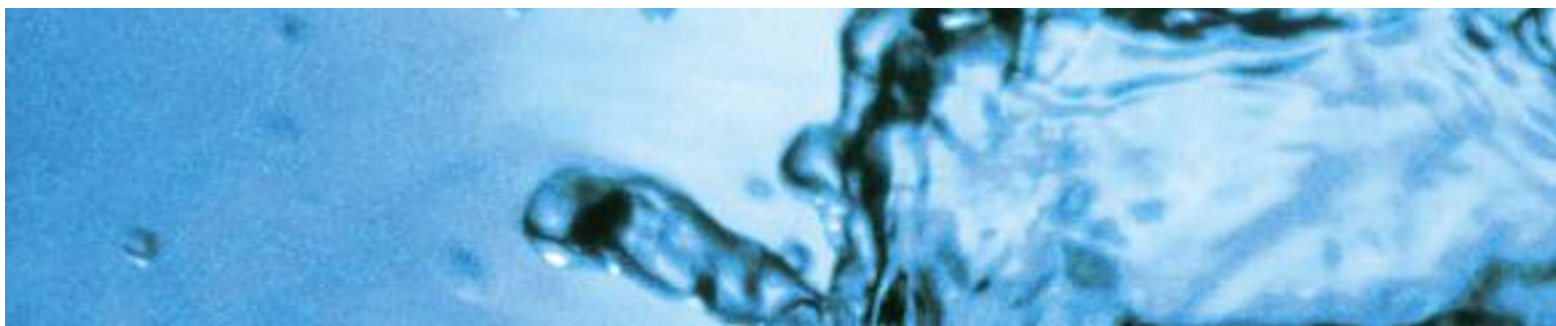
SANTON
25
YEAR
GUARANTEE



Category
Energy & CO₂



AVAILABLE FROM CITY PLUMBING
& TRAVIS PERKINS



SANITARY & BRASSWARE

By fitting a number of items that reduce the household water consumption you will achieve points within category 2.

Category
Water



AVAILABLE FROM CITY PLUMBING & TRAVIS PERKINS

ROCA THESIS



Roca thesis is fitted with the innovative Ecodisk cartridge which acts as a flow regulator and a temperature control system, allowing the homeowner or tenant to choose between reduced or full flow water. This helps the environment by saving water and provides complete peace of mind by eliminating the chance of scalding. In addition to this, Thesis also includes an in-built flow regulator with a limit of 8 litres per minute for further water conservation.

LOW LITRE FLUSH TOILETS



The New Galerie Flushwise dual flush WC uses less than half the water of most toilets. According to UK Government figures, the average standard flush uses 9 litres of water. Galerie Flushwise uses 4 or 2.6 litres and leads the field for reducing water consumption.

LOW FLOW RATE SHOWERS



MIRA VIE

- Available in a choice of power ratings – 8.5kW, 9.5kW and high performance 10.8kW models
- ECO power setting uses less energy and water
- 2 year guarantee

All our bath suites have Category Standard 6/4 litre flush toilets. For information on our full range speak to your local branch. Examples of this are:

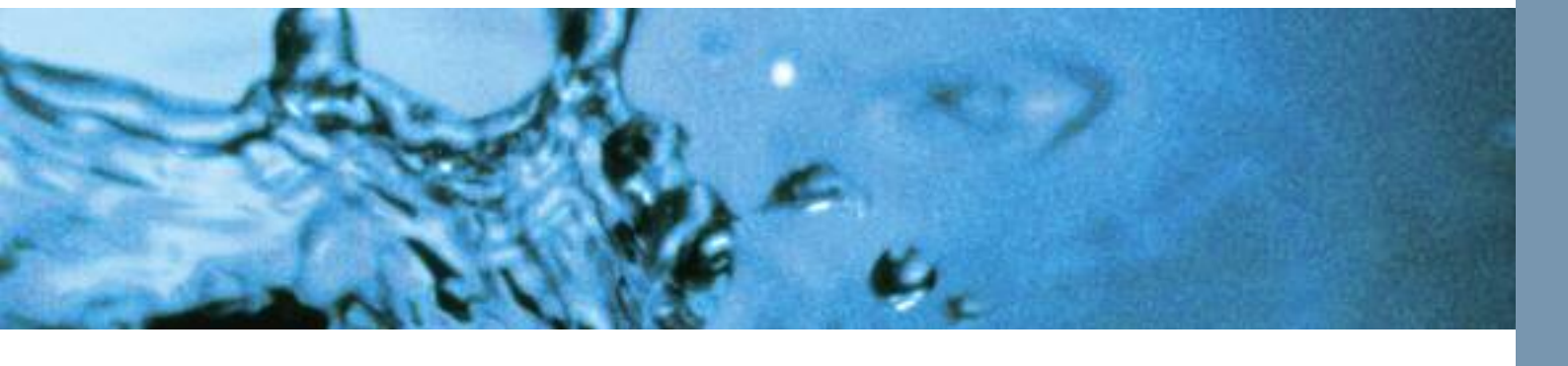
ROCA POLO



TWYFORD NEW GALERIE



KOHLER PATIO



THE BUILD - STAGE 5

THE SECOND FIX

FLOORING

We supply a range of different floorings from solid wood and laminate to stone and vinyl tiles. For full details see our Flooring Brochure.

Buying and selling timber in significant quantities comes with a social and environmental responsibility. We're committed to reducing our impact on the planet, working with suppliers and non-government environmental organisations to source our timber from renewable sources.

Category
Materials



AVAILABLE FROM
TRAVIS PERKINS

SCHÖNFLOOR

Schönfloor Solid Oak flooring is available in 80mm and 125mm widths and is a popular choice as the grade is clean enough to achieve a contemporary feel, but still has all the natural characteristics of a solid oak floor.



CHRISTINA MEYER

Christina Meyer only uses timber from FSC certified sources, to make their stunning floors. Each board has been made from nominated trees within managed and renewable forests, producing wood of the very highest quality.



TRANQUIL

A lightweight, one-part, underscreed system, offers a superior acoustic performance beyond existing solutions.



APPLIANCES

All our appliances are rated with the European Union Energy label. The label rates from A+-G, with A+ being the most efficient and G being the least. We have selected appliances that promote a high-energy efficiency rating to reduce household electricity consumption and enable you to achieve the required ratings in category 1 of the Code.

AEG AMERICAN FRIDGE FREEZER

- Stainless Steel
- Electronic controls
- Halogen light
- Multi Flow
- Ice and water dispenser
- Self closing doors
- 522 litre nett capacity
- Available on special order



ZANUSSI STAINLESS STEEL SINGLE FAN OVEN

- 3 functions
- Rotary oven controls
- Touch proof stainless steel
- Easy clean enamel interior



Category
Energy & CO₂ 

AVAILABLE FROM
BENCHMARK & TRAVIS PERKINS

ENERGY
A
RATED

TRICITY BENDIX 60cm WASHING MACHINE

- White
- 5KG Wash Load
- 21 Programmes
- 1100rpm



ZANUSSI 45cm FULLY INTEGRATED DISHWASHER

- Push button controls
- 9 place settings
- 5 Programmes
- Residual drying
- Height adjustable baskets
- 1 fixed & 2 folding cup shelves
- 14 litres water consumption
- 53 dBA



THERMOSTATIC RADIATOR VALVES

Fitting thermostatic radiator valves will allow the temperature to be controlled accurately in each room where they are fitted. As the room heats up to a preset temperature, the valve will gradually close, reducing the amount of heat given out. As the room requires more heat, the valve opens, allowing more hot water in to the radiator. This can save considerable amounts of energy and cost by preventing some rooms in the home from becoming overheated.



iflo 15mm ANGLED TRV

Category
Energy & CO₂ 

AVAILABLE FROM CITY PLUMBING
& TRAVIS PERKINS

ENERGY EFFICIENT LIGHTING & FITTINGS

Efficiencies of up to 80% can be achieved by fitting compact fluorescent lighting which is now available in many shapes and sizes. Dimmer compatible energy saving bulbs are also now available, and for new homes dedicated fixings for energy saving bulbs should be considered.

Lower wattage outside security lighting, combined with movement sensors, will further reduce the home's carbon footprint.

Category
Energy & CO₂ 

AVAILABLE FROM
TRAVIS PERKINS



THE BUILD - STAGE 5

THE SECOND FIX

HOUSEHOLD RECYCLING CENTRES

Installing internal storage bins ensures the household has the facilities to recycle and will provide points on category 5 waste.

Category
Waste



AVAILABLE FROM
BENCHMARK & TRAVIS PERKINS

SPACE SAVING TRIPLE WASTE BIN



AUTOMATIC PULL-OUT DOUBLE BIN



3 WAY RECYCLING BIN



DOORS, ARCHITRAVES & SKIRTING

Our timber buying policy and desire to ensure only timber from responsible sources is used, extends into second fix materials even when they may be highly engineered and composite products, making timber traceability harder. Please ask in branch about our range of FSC and PEFC certified products in this category.

Category
Materials



AVAILABLE FROM KEYLINE
& TRAVIS PERKINS



HOUSE USER GUIDE

The modern sustainable home will have some features and benefits that are unfamiliar to future owners or occupiers, for example, heat pumps or solar hot water heating. In addition, there are many other improvements that owners can make themselves, such as buying and installing A+ certified white goods, recycling waste and using public transport to further reduce their new home's environmental impact.

As part of your sales and marketing strategy, it's worth considering producing a home user guide that points out in non technical language:

- How the new home works
- How it saves money and reduces environmental impact
- What sort of products customers should install and use for diy repairs
- How, by small lifestyle changes they can further contribute to sustainability

Its also a good way of securing code points and will demonstrate your commitment to reducing your housing product's environmental impact well into the future.

Category
Management



THE BUILD - STAGE 6: LANDSCAPING

OUR WIDE RANGE OF LANDSCAPING PRODUCTS ENABLE YOU TO CREATE AN IDEAL OUTDOOR LIVING SPACE WHILST MEETING THE REQUIREMENTS OF THE CODE.

SURFACE WATER DRAINAGE

Rainfall patterns are changing, resulting in longer dry spells and the depletion of natural watercourses. This, compounded by shorter, heavier bursts of rainfall, results in heavy volumes of water over short periods of time. Add to this the constant increase in hard standing surfaces as a result of urban development, and the result is an unsustainable increase in water run-off and a reduction in the overall natural water resources available to us.

Using surface water drainage products in conjunction with the stormwater management systems featured in the Foundations and Groundwork section will ensure the control of rainwater run-off from impermeable areas.

PRIORA® BLOCK PAVING

The unique patented design of the Piora® block creates voids at the joints, allowing surface water to pass naturally through into a specially calculated sub-base without compromising the integrity of the driveway, while substantially reducing the risk of pollution and flooding in the sewer systems.

Category
Water Run-off 

AVAILABLE FROM
KEYLINE & TRAVIS PERKINS

ACO RAINDRAIN PLUS™

ACO RainDrain Plus™ is a versatile domestic polymer concrete channel system, particularly suitable for block paving applications.

- Traditional channel and grate appearance
- Lightweight, quick and easy to install
- Clip locking gratings
- Choice of galvanised steel grating for pedestrian areas and domestic drives, and cast iron gratings for light vehicle traffic
- Extended range of suitable applications
- Fully certified and CE marked to BS EN 1433:2002 Load Class A15 & B125
- B125 Load Class only with cast iron grating



ACO GROUNDGUARD

The award-winning lightweight ground reinforcement system. Ideal for stabilising grass or gravel, it helps eliminate the risks of pot holes, rutting or grass damage. The system is suitable for a wide variety of applications including paths, drives, parking areas and emergency access routes.

Ideal for a wide variety of applications – vehicle and pedestrian traffic, fire access lanes and parking areas.

- Lightweight – just 1kg per piece
- Easy to handle and install – simple clip-together fixings
- Easily cut to shape for irregular edging
- Cost effective solution – competitive with asphalt or block paving
- Suitable for gradients up to 5% or steeper when pegged
- Eliminates gravel migration and raking



GROUND GRID

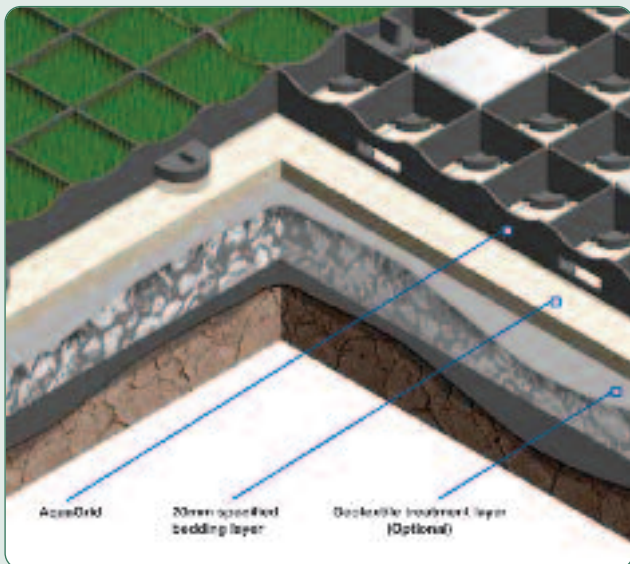


WAVIN AQUAGRID

AquaGrid is a high performance plastic pervious paving system for use in all types of Sustainable Drainage Systems (SUDS).

The AquaGrid system provides benefits over traditional forms of grass protection and gravel retention systems such as:

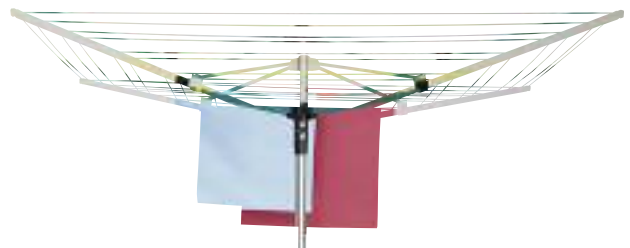
- Interlocking and pinning arrangement
- Inter-connecting modular units
- Lateral flow capability
- 90% surface area available for infill
- Demarcation Blocks available for identification of car park areas



WASHING LINES

Helps to meet the requirements of the code by drying clothes rather than using a tumble dryer

- Strong easy-clean line
- Weatherproof durable galvanised steel
- Ideal for medium (40m & 35m) or small (30m) family wash



THE BUILD - STAGE 6: LANDSCAPING

BIKE STORAGE

Sheds can provide extra storage space for bikes and other items. They are quick and easy to assemble, are delivered pre-treated and include a 10 year manufacturer's anti-rot guarantee.

OVERLAP SHED APEX ROOF

Based on the best selling traditional design, this shed provides additional security with a pad bolt. Available with or without window.



This product has been surface-treated with a preservative, giving a guaranteed service life of 10 years, subject to correct installation and to being isolated from direct contact with the ground. Dip Treated fence panels should be isolated from the ground by means of Pressure Treated or concrete gravel board.

Category **3**
Materials

Category **1**
Energy & CO₂

AVAILABLE FROM
KEYLINE & TRAVIS PERKINS

COMPOSTING

Developers who provide home composting facilities in houses with gardens suitable for normal domestic non-woody garden, food and other compostable household wastes will be awarded points under category 5.

Category **5**
Waste



AVAILABLE FROM
TRAVIS PERKINS

FENCE PANELS

Providing even partially private outside space to a home is seen to add improved health and wellbeing.

As with all of our timber products, our purchasing and sales policy on fence panels is governed by controls in place at all our branches, as part of our chain of custody certification. All of our stock is certified to either FSC or PEFC standards which will allow you to meet the requirements of the code.



This product has been pressure-impregnated with a preservative, giving a guaranteed service life of 15 years. Subject to correct installation.

Category **3**
Materials

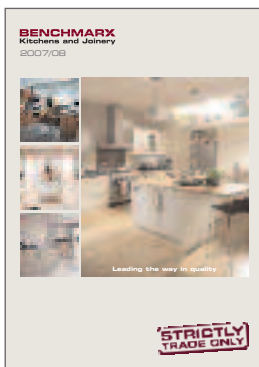
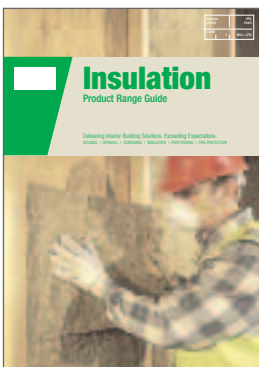
Category **7**
Health & Wellbeing

AVAILABLE FROM
KEYLINE & TRAVIS PERKINS



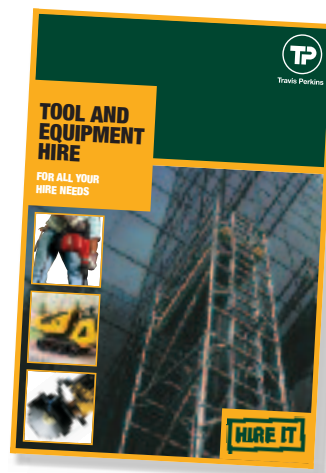
TRAVIS PERKINS GROUP LITERATURE

BELOW IS A SELECTION OF THE DIFFERENT BROCHURES AVAILABLE FROM OUR TRADE MERCHANT BRANDS THAT PROVIDE FURTHER INFORMATION ON THE PRODUCT RANGES THAT WILL HELP YOU COMPLY WITH THE CODE FOR SUSTAINABLE HOMES.



PICK UP A COPY OF OUR TOOL AND EQUIPMENT HIRE GUIDE

- **Large range of quality products** – from leading brand manufacturers
- **5-Star Safety Service** – we put safety first, so every piece of our hire equipment is fully and regularly serviced, maintained and tested
- **One call for all your hire needs** – our new national Direct Hire service gives account holders access to a countrywide choice of equipment
- **Guaranteed 4 hour delivery** – on in-stock items within 20 miles*
- **Member of Hire Association Europe**



FOR ALL YOUR HIRE NEEDS VISIT YOUR LOCAL BRANCH OR CALL

0870 607 8700

*subject to availability



For more information on the Code for Sustainable Homes visit:

www.communities.gov.uk

www.planningportal.gov.uk

www.nhbc.builder.co.uk

To find out more or to find your nearest branch visit:

www.travisperkins.co.uk