



Formpave[®]

Distinctive Driveways and Patios



Situated at Coleford in the Royal Forest of Dean, the Hanson Formpave works is one of the most sophisticated of its type in Europe. The technology used in the works and the Company's quality assurance scheme provides complete works traceability of every block made.

The works has BS EN ISO 9001:2000 Quality Assurance accreditation and Hanson Formpave is a BSI registered company.

If you would like information on Hanson Formpave's other products, including our Storm water source control system and range of Aquaflo permeable paving, please visit our web site www.formpave.co.uk or call our Sales office on 01594 836999.



FM 12515



BS EN 1338

Let Hanson Formpave's distinctive range of products transform your driveway and patio! **Aquaflow permeable paving system**

Aquapave and Aquasett for driveways and paths. An environmentally productive way to prevent run-off and flooding by collecting and cleaning storm water.

Chartres range classic modular paving • cobbles • setts • boulevard paving. Inspired by the beautiful medieval city of Chartres in France. A stylish and distinctive paving range. Antique style setts for use where an 'Olde Worlde' appearance is a major consideration.

EcoGranite cobbles • setts • paving. Put an environmental alternative on your driveway. Available in colours that replicate the stunning natural granites of Cornwall and Royal Deeside in Scotland.

Royal Forest and Home-plus rectangular block paving. Available in 8 distinctive colours and various surface finishes. Suitable for many applications, from driveways to hard-standings.

Aquaflow Water Harvesting system

The Aquaflow Water Harvesting system collects water from all impermeable surfaces, roofs, paths and especially the driveway.

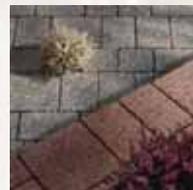
Kerbs and accessories Forest edging • standard kerb and step system • bull-nose kerb system. Available in colours and finishes to match the Chartres, EcoGranite and Royal Forest ranges.



Aquaflow 2-3



Chartres 4-11



EcoGranite 12-15



Royal Forest 16-17



Aquaflow Water Harvesting system 18-19

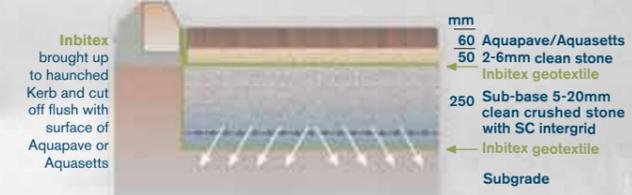
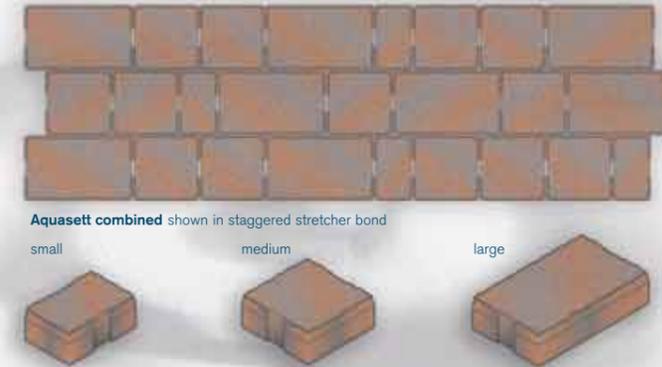
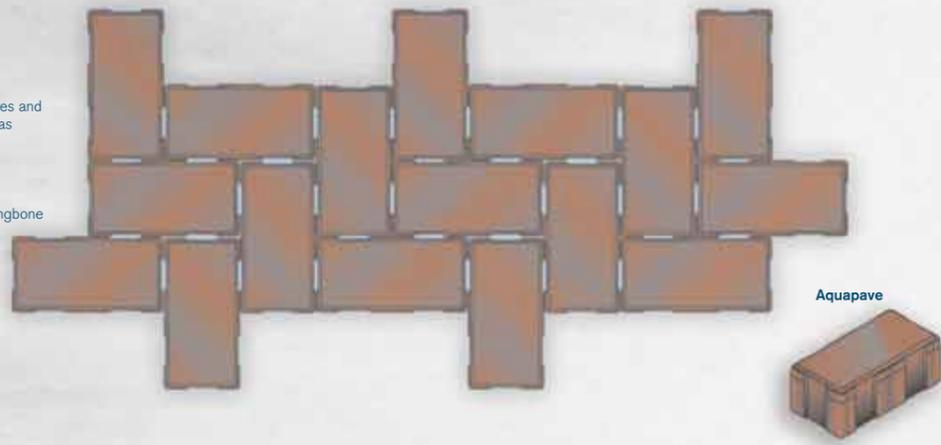


Kerbs 20

Decorative Aggregates and Landscaping material inside back cover • Joint filling sand • Aquaflow surface dressing grit • Colour and finish variations • Advisory service • Samples • Maintenance and Care • Product development • Adverse weather • High skid resistance paving BS Technical specification • Colour Reproduction back cover

For more information including a full list of stockists please visit: www.formpave.co.uk

Aquapave
 For use on car parks, drives and moderately trafficked areas
size
 100 x 200 x 60mm
laying pattern
 Must be laid in 90° herringbone



Aquaflow permeable paving system
 Typical Infiltration system for a domestic driveway

Installation
 The Aquaflow system requires more expertise than standard concrete block paving. The sub-base design needs to be strictly adhered to. We would recommend that if in doubt you consult us at Hanson Formpave for further information. 01594 836999

Aquaflow permeable paving system

Permeable driveways, paths and patios

The Aquaflow permeable paving system enables you to turn your front lawn into a hard standing without affecting the environment. In fact you are replicating nature, perhaps in a more efficient manner. The system links all impermeable surfaces; roofs, driveways and paths. The permeable surface drains into the voided sub-base where the water is stored, filtered and cleaned. The rainfall (run-off) is stored within this 'reservoir' sub-base. There are then three options:

- Direct infiltration into the ground.
 - Discharge at a low rate into stormwater drains.
 - Water harvesting. A pump is built into the driveway so that the water can be re-used for car washing and on the garden. When water is recycled through the Aquaflow permeable paving system it is not subject to a hosepipe ban.
- There are two types of Aquaflow block; the Aquapave rectangular and the Aquasett combined. Both are available in a 60mm thickness with colours as shown below.

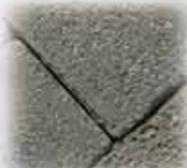
See Aquaflow Water Harvesting system pages 18-19



Aquapave standard finish



Aquasett olden finish



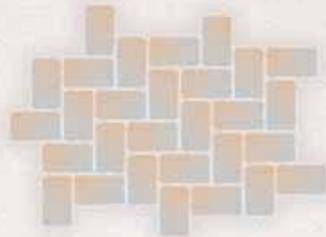
Aquasett textured finish special order



Aquapave shown with standard kerb in high rise position both with a standard finish in red brindle



Chartres combined paving
large, medium and small



Chartres large special order
single size 250x150x60mm

Chartres classic modular combined paving is available with a 50 or 60mm depth.

Each layer within the pack contains a mix of 3 module sizes; small, medium and large enabling the specifier to create a variety of laying patterns from strict coursing in one or more sizes to a totally random pattern.

Chartres edging has been specially designed to complement the range and is available in the same colours with an olden finish.

	thickness mm	
	50	60
Chartres combined		
square metres	11.2	11.2
number small blocks 100x150mm	98	98
medium blocks 150x150mm	196	196
large blocks 250x150mm	140	140
weight tonnes	1.23	1.47
Chartres large	-	60
square metres	-	10.50
number	-	280
weight tonnes	-	1.38

Chartres range

classic modular combined paving

The concept of Chartres modular paving was inspired by the beautiful medieval city of Chartres in northern France. Chartres modular combined provides a stylish alternative to the usual driveway format.

Chartres is available in five beautiful colours; Traditional, Vendage, Pennant, Purbeck and Cotswold.



Traditional



Vendage



Pennant



Cotswold

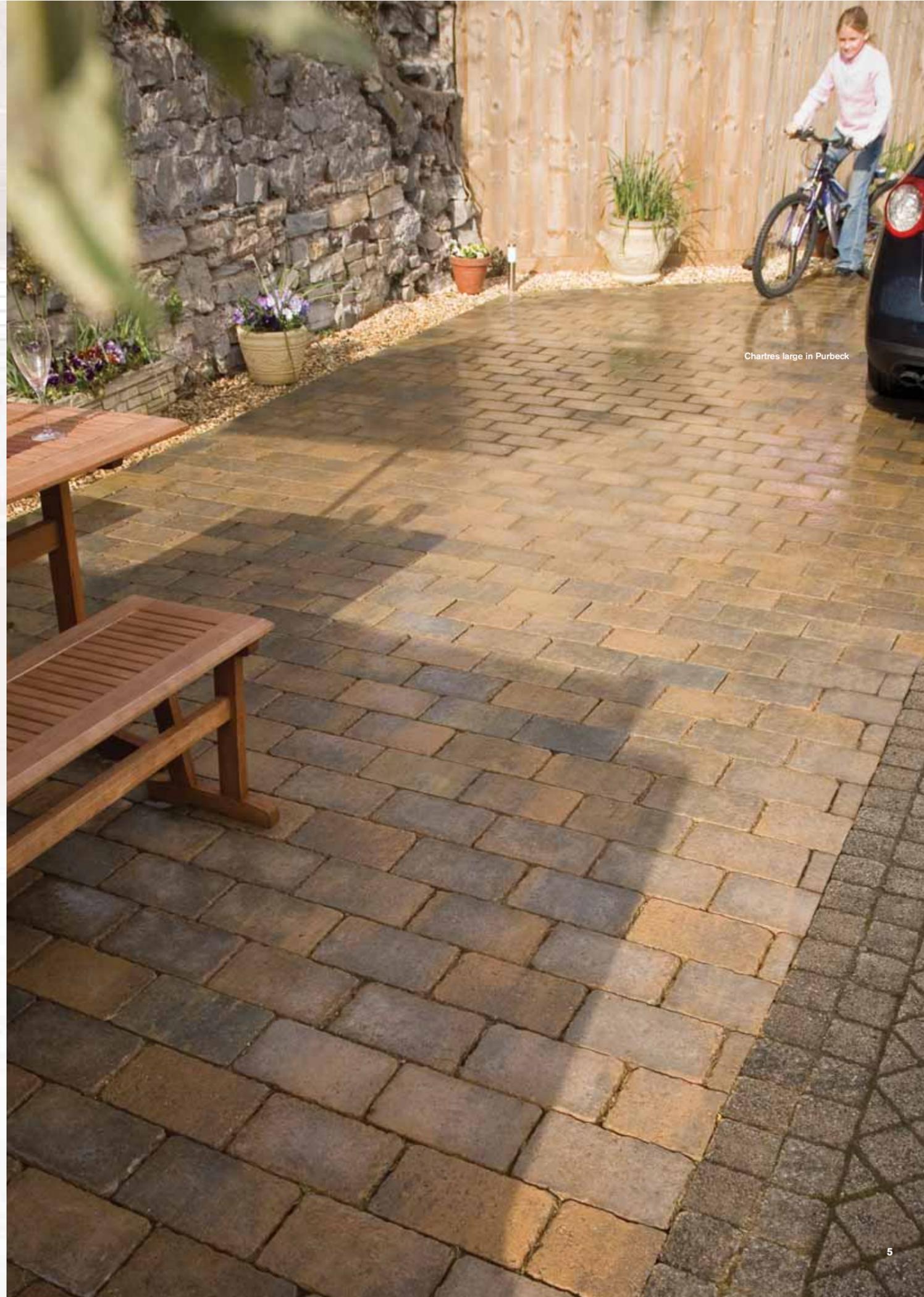


Purbeck



Chartres edging
100x200x250mm see page 20

Olden finish



Chartres large in Purbeck



main picture and inset
Chartres classic combined
in Traditional



Chartres range classic combined modular paving

- 1** Chartres classic combined in Traditional with Red Brindle bull nose kerb and Red Brindle and Charcoal Grey Royal Forest rectangular paving
 - 2** Chartres classic combined in Traditional with standard kerb in Charcoal
 - 3** Chartres classic combined in Purbeck with an olden finish
 - 4** Chartres classic combined in Traditional
- All Chartres classic combined shown with an olden finish*



1



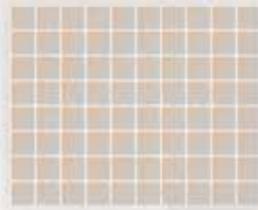
2



3



4



Chartres cobbles
manufactured format



Chartres setts
manufactured format



Chartres boulevard paving *special order*
manufactured format

Chartres range

cobbles • setts • boulevard paving

The Chartres concept has been developed to emulate the old stone traditionally used in rural and heritage sites throughout the country. Available with an olden or textured surface finish in three colours: Purbeck, Traditional and Cotswold. The range is very flexible, enabling designers to create stunning hard landscaped areas with the many varied sizes. Chartres setts a smaller variation to Chartres classic, cobbles for detailing and boulevard for that 'different' patio area.

Chartres cobbles and setts are available with a 60mm depth. Chartres boulevard paving is available with a depth of 70mm.

Chartres edging has been specially designed to complement the range and is available in the same colours and finish.

per pack	thickness mm	
Chartres cobbles	60	
square metres	11.2	
number 100x100mm	1120	
weight tonnes	1.47	
Chartres setts	60	
square metre	10.5	
number small blocks 100x100mm	126	
medium blocks 150x100mm	406	
large blocks 150x150mm	140	
weight tonnes	1.38	1.31
Chartres boulevard paving	70	
square metre	9.30	
number mixed sizes	144	
weight tonnes	1.43	



Olden finish



Textured finish
special order



Cotswold



Purbeck



Chartres edging
100x200x250mm see page 20



Traditional



Chartres setts in Traditional
with an olden finish



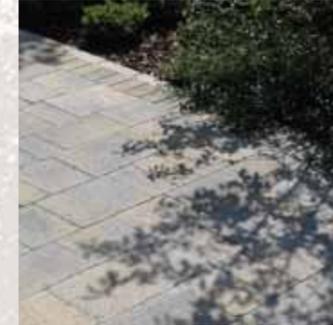
Chartres setts in Purbeck with an olden finish

Chartres range cobbles • setts • boulevard paving

- 1 Chartres setts in Traditional with an olden finish
- 2 Chartres boulevard paving in Purbeck with an olden finish
- 3 Chartres setts in Purbeck with an olden finish
- 4 Chartres boulevard paving in Purbeck with a textured finish
- 5 Chartres setts in Purbeck with a textured finish
- 6 Chartres setts in Traditional with an olden finish
- 7 Chartres boulevard paving in Cotswold with an olden finish



1



2



3



4



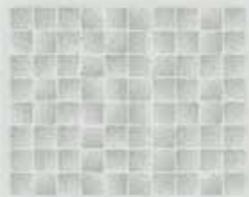
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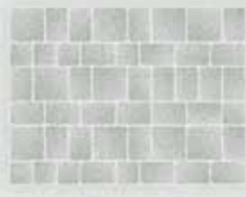
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7



EcoGranite cobble
manufactured format



EcoGranite setts
manufactured format



EcoGranite paving special order
manufactured format

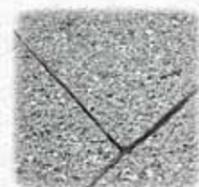
Formpave's unique EcoGranite mix includes both Stent and Slag, by-products of Cornish China Clay and the South Wales Steel Industry.

EcoGranite cobbles and setts are available with a 60mm depth and paving with a depth of 70mm.

EcoGranite edging has been specially designed to complement the range and is available in the same colours with a textured finish.

EcoGranite cobbles • setts • paving
Put an environmental alternative on your driveway, with the EcoGranite range. Hanson Formpave EcoGranite contains up to 77% recycled materials. The textured surface finish exposes the sparkling granite which offers excellent non-slip properties and design opportunities for the discerning customer. EcoGranite is available in five colours designed to replicate the stunning natural granites of Cornwall and Royal Deeside in Scotland; Balmoral, Braemar Victoria, Tintagel and Cornish.

per pack	thickness mm
EcoGranite cobbles	60
square metres	11.2
number	1120
100x100mm	
weight tonnes	1.47
setts	60
square metre	10.5
number	
small blocks	
100x100mm	126
medium blocks	
150x100mm	406
large blocks	
150x150mm	140
weight tonnes	1.38
paving	70
square metre	9.30
number	
mixed sizes	144
weight tonnes	1.43



Textured finish



EcoGranite edging
100x200x250mm see page 20



Royal Deeside Balmoral



Royal Deeside Braemar



Cornish Tintagel



Royal Deeside Victoria



Cornish Natural



main picture
EcoGranite setts in Royal Deeside Victoria with Balmoral used as edging
insets from top to bottom
EcoGranite setts in Royal Deeside Braemar and Victoria
EcoGranite setts in Royal Deeside Victoria with Balmoral used as edging
EcoGranite setts in Royal Deeside Victoria with Balmoral used as edging
All in a textured finish

EcoGranite setts in Cornish Natural with standard and bull nose kerbs in charcoal



EcoGranite cobbles • setts • paving

- 1 EcoGranite paving and edging in Cornish Natural
- 2 EcoGranite setts and edging in Cornish Natural with standard kerbs in charcoal
- 3 EcoGranite setts in Cornish Natural with bull nose kerbs in charcoal
- 4 EcoGranite setts and bull nose kerbs in Cornish Natural
- 5 EcoGranite paving, setts and bull nose kerbs in Cornish Natural
- 6 EcoGranite setts in Royal Deeside Braemar and Victoria
- 7 EcoGranite setts in Royal Deeside Braemar



Royal Forest



Royal Forest/Home-plus shown in 45° herringbone pattern

Home-plus



Royal Forest/Home-plus shown in 90° herringbone pattern

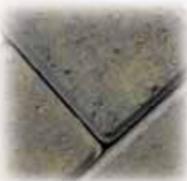
Royal Forest Range is available with a 60 or 80mm depth. Home-plus offers all the advantages of the Royal Forest range but with a 50mm depth it has been designed for domestic use and is ideal for driveways. Home-plus require less excavation prior to laying and is cheaper, lighter and easier to lay than 60 or 80mm depth blocks.

Royal Forest and Home-plus rectangular paving is a perfect way to create simple yet stylish driveways, paths and patios. Home-plus with a 50mm depth is ideal for domestic use requiring less excavation prior to laying than the more robust 60. Royal Forest is available in 60mm for all driveway and car-parking uses. With eight distinctive colours the range offers tremendous design opportunities.



Royal Forest/Home-plus in Purbeck

	per pack	
Home-plus 50mm	thickness mm	
Royal Forest 60mm	50	60
square metres	8.48	8.48
number 100x200mm	424	424
weight tonnes	.933	1.10



Standard finish



Home-Plus in Purbeck

Royal Forest in mixed colours





Aquaflow Water Harvesting System

The Aquaflow Water Harvesting system collects water from all impermeable surfaces, roofs, paths and especially the driveway. All water falling onto the paved surface is cleaned by a geotextile layer (Inbitex) before storage. Recommended uses for this water are garden watering and car washing; these uses can reduce by up to 50% the household requirements for mains water. Because cars are washed on the driveway and the driveway is permeable, even this water is recycled.

The rainfall (run-off) is stored within this 'reservoir' area with all surplus being discharged into a sump.

The reservoir/sump contains a pump which will allow the harvested water to be dispensed via a tap and hose-pipe. Because there is no mains water attachment the harvested water can be used where there are hose pipe restrictions, as the tank is treated as a subterranean water butt.

Car washing becomes an environmentally friendly pursuit as the majority of the water used will automatically be cleaned and recycled as it passes through the permeable paving on the driveway.

The capacity of the system is dependant on the size of driveway, but additional storage can be achieved by increasing the pump chamber (sump) size. It will be necessary to calculate the approximate quantities of water required set against the estimated quantity of rainfall. This can be done using average rainfall figures.

For more information on the Aquaflow Water Harvesting System please ring the sales office on 01594 836999 or visit www.formpave.co.uk

Surface dressing* 2-4mm grit, brushed into the surface of the blocks.

Laying course* 2-6mm crushed stone, a 50mm screeded layer.

Inbitex A green fibre geotextile to filter and clean water.

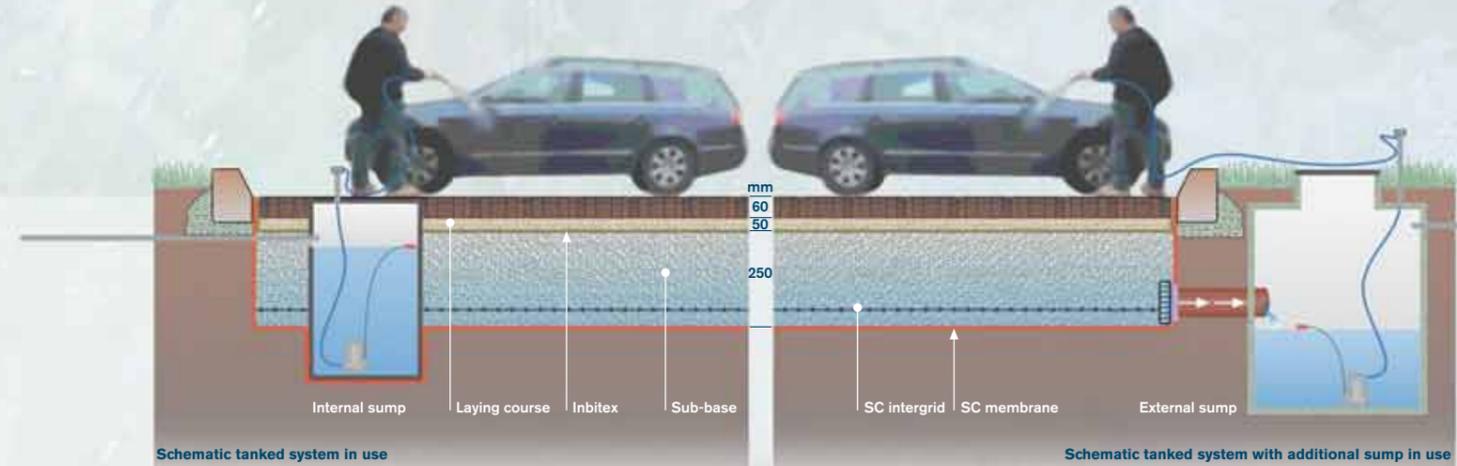
Sub-base* 5-20mm crushed stone, the load bearing layer.

SC intergrid A square grid that aids the sub base loading capacity.

SC membrane An impermeable black plastic liner to create the watertight tank.

*All stone must be clean crushed and angular to allow the sub base to perform to standards.

If additional capacity is required then a sump can be attached to achieve this.



Schematic tanked system in use

Schematic tanked system with additional sump in use



Typical paved area



1 Excavate to formation level



2 Excavate for pump chamber



3 Line with impermeable membrane and insert pump



4 Spread and compact 5-20mm clean stone



5 Lay Inbitex Geotextile



6 Spread and screed 2-6mm clean stone



7 Lay blocks (handtight)



8 Connect pump and system ready for use.



9 Brush in surface dressing

Maintenance

Ensure surface is kept clean of soil, brush regularly.

right Bull nose kerb in Charcoal grey with a textured blasted finish.

far right Forest edging in Traditional with an olden finish



Kerbs and edging

Standard kerb and step system The standard range consists of eight blocks to facilitate edge restraint, cornering and cross-over. The Standard kerb block may be used in both high and low profile or inverted to form steps.

Bull nose kerb system The Bull nose kerb system consists of four blocks and has been developed to provide a softer profile edge restraint. It is available in both standard (smooth) and textured finish as shown right.

Chartres, EcoGranite and Royal Forest edging A substantial edge restraint designed to complement each range in material, colour and texture. It can either be laid flush with block paving or as an upstand.

Forest edging Forest edging is a substantial all purpose edge restraint. It can either be laid flush with block paving or as an upstand. It is quicker and easier to lay than conventional kerb units and when laid flush with paved areas allows surface water to drain easily.

Standard kerb & step system

Standard kerb block

100x150x200mm

high position



low position



Low internal corner block

200x150x200mm



Low external corner block

200x150x200mm



High internal corner block

150x200x150mm



High external corner block

150x200x150mm



Crossover kerb block

100x125x200mm



Crossover internal corner

200x125x200mm



Crossover external corner

200x125x200mm



Bull nose kerb system

Bull nose kerb block 100x190x125mm

Internal corner 125x190x125mm

External corner 125x190x125mm



high position



low position

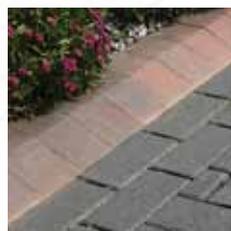


high position



high position

Both the Standard kerb and step system and Bull nose kerb system are available in four standard colours:



Standard kerb in low position



Bull nose in high position



Bull nose kerb in EcoGranite



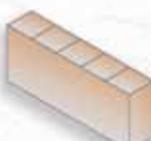
Edging in Cotswold with a standard finish

Chartres, EcoGranite and Royal Forest edging
200x100x250mm

Forest edging
500x200x100mm



Olden or textured finish



Standard finish



Olden or textured finish

Kerbs finishes



Standard finish



Textured special order



Decorative aggregates & landscaping materials

Hanson's garden and landscaping collection has the widest choice of building and landscaping products to suit all of your needs. The extensive range includes decorative pebbles, cobbles, rockery stone and boulders, paving, bagged sands and gravels, building aggregates, plasters, macadam and dry mixed concretes and mortars.

With Hanson decorative stone, you can easily transform patios, paths, driveways and edgings with a wide range of materials and colours.

The surfaces within your garden are central to its character, setting its style and personality. Inspirational gardens designed with natural stones and gravels are easy to achieve and the floor of your garden can be made as attractive as any indoor room. With such a comprehensive range of sizes, colours and patterns of pebbles, cobbles, rockery and boulders you can use different materials to create simple yet effective foils for hard and soft landscaping themes.

For the busy gardener, low maintenance gardens are an excellent alternative to lawns; natural stones will stand alone or complement a green area.



For further information on Hanson's range of landscaping products and bagged packed products please visit:
www.hanson.co.uk
or telephone 08705 258 258



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fax 01594 810577
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www.formpave.co.uk

Products supplied by



Hanson Plc a Global Business

Hanson is one of the world's largest suppliers of heavy building materials to the construction industry. We produce aggregates (crushed rock, sand and gravel), ready-mixed and precast concrete, asphalt and cement-related materials and a range of building products including concrete pipes, concrete pavers, tiles and clay bricks.

We are part of the Heidelberg Cement Group, which employs 70,000 people across five continents, has leading positions in concrete and heavy building products and is the global leader in aggregates.

Hanson Building Products is the UK's largest brick and aircrete block producer. We also produce aggregate blocks, bagged aggregate and cement products, renders, pavers, pre cast floors and stairs, SUD systems and prefabricated building systems. The division incorporates London Brick, Thermalite, Red Bank, Cradley, Formpave and Structherm.

Joint filling sand

Hanson Formpave specially kiln dried sand is recommended for use with all types of concrete block paving with the exception of permeable paving. Available in 25kg bags, 1 bag provides coverage for approximately 8–10m².

Aquaflow surface dressing grit

Hanson Formpave Aquaflow surface dressing grit is recommended for use with permeable block paving systems. Available in 25kg bags, 1 bag provides coverage for approximately 8–10m².

Colour and finish variations

Hanson Formpave products are manufactured from naturally occurring materials and consequently may show slight variations in finish and colour.

It is strongly recommended that products are taken from two or more packs and mixed during laying to minimise any colour variation.

All concrete products may suffer from efflorescence. This occurs naturally and will disappear with use. It is in no way detrimental to the performance of the product. No responsibility can be accepted for this natural occurrence.

Please note: 'Natural' as used in the Aquapave, Royal Forest and Kerb range is not coloured with the aid of pigments. The colour is that of the raw materials used and may vary.

Advisory service

Hanson Formpave are pleased to offer detailed technical advice on all products.

Samples

Sample blocks are available from your nearest Hanson Formpave stockist upon request.

Maintenance and Care

All paved surfaces will require occasional cleaning. In normal circumstances, regular sweeping will be sufficient. A range of specialist cleaning products are available; contact your local merchant for details. It should be noted that lighter coloured blocks may exhibit tyre marks and will therefore require more cleaning and maintenance when used in certain situations.

Product development

The designs shown in this brochure are illustrative only. Every effort is made to ensure the accuracy of all textural and pictorial content in this brochure. Hanson Formpave reserves the right to change specifications without prior notice. All Hanson Formpave paving products are backed by BS EN ISO 9001 certification for product quality and service.

Adverse weather

Do not use frozen materials or lay sand bedding on frozen or frost covered sub-bases. Protect stock piled bedding sand to ensure it does not become saturated.

Protect uncompacted areas of paving from heavy rainfall.

High skid resistance paving BS Technical specification

All cement and bituminous bound surfaces eventually show a degree of polishing during use. This produces lower slip skid resistance and can be more dangerous in wet weather.

Hanson Formpave have developed High skid resistant blocks and paving manufactured from gritstone with a polished stone value of 70.

Hanson Formpave standard products possess excellent wet skid resistance. There are, however, occasions when enhanced skid resistance surfacing is desirable, for example: • on steps • on access ramps • on areas to be used by elderly or infirm people • on roads with heavy traffic loading • or in shopping precincts.

The polished skid resistance of Hanson Formpave products can be increased by specifying a textured finish where available.

Colour Reproduction

Every care has been taken to reproduce the colour of the blocks in this document as accurately as possible. However, we cannot reproduce exact colours and recommend that you examine a sample block.



BS EN 1338