

Newton Waterproofing Systems
DESIGNED. SUPPLIED. GUARANTEED.

JN
NEWTON
WATERPROOFING

JN[®]

NEWTON
RECYCLING

Sustainability Report 2021

The 5th Annual Sustainability Report, Including the Newton Recycling Service & Our Industry-Leading Sustainability Initiatives

Newton's award-winning recycling service collects and recycles waste membrane into new construction products



“Environmental issues are increasingly in the spotlight. The plastic and construction industries are under more pressure than ever before to do the right thing. This innovative new service from Newton provides lots of businesses with the chance to recycle their plastics, and actually it's a game-changing service that will allow a transparent and certifiable option to recycle their plastic membranes.

Stuart Foster, Recycling Of Used Plastics (RECOUP)

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NEWTON & SUSTAINABILITY

WELCOME TO NEWTON

Another year gone and another year of new challenges and changing circumstances, with more national lockdowns, huge increases in the cost of materials, and greater pressure on suppliers.

However, I'm proud to say that Newton has kept sustainability in waterproofing at the top of our agenda, and we've even taken further steps to tie our recycling and sustainability initiatives into the other industry-leading services that we provide. These include taking design liability under our own professional indemnity insurance when using a Newton Specialist Contractor to install the waterproofing, as part of our portfolio of design services.

The fact that we are no longer the only recycling service in the UK waterproofing industry is another positive, and the clear steps that our specialist contractors have been making to reduce their product waste and improve efficiency also points to the increasing emphasis that is being placed on sustainability throughout the construction industry.

As always, we believe that there should be no barriers to sustainability, and our recycling service will continue to remain completely free in 2022.

We look forward to developing our sustainability targets further in 2022 and engaging with even more companies to help them achieve their goals.



Warren Muschialli, Managing Director

Newton Waterproofing Systems



Waste waterproofing products are reprocessed and recycled using the Newton Recycling Service

FROM 1848 TO PRESENT DAY

1848

John Newton established the company in 1848 in South London, recycling waste hair from the tanneries to make plasterers hair for the construction industry, soon becoming the largest supplier in England.

1931

Introduces 'Newlath' and pioneers the air gap method of damp proofing in the UK.

After WWII Newlath enabled the upgrading of thousands of existing houses to create dry, habitable accommodation.

1983

With over 5 million square metres of Newlath installed, the product is upgraded to create the first damp proofing sheet membrane manufactured from HDPE with a mesh surface for a direct plastered finish.

1986

Introduces Newton System 500, the first complete below-ground waterproofing solution.

The system has been constantly improved since then, and used to create habitable space below-ground in thousands of properties.

2020 to 2021

The Newton CDM System becomes the first cavity drain waterproofing solution to gain certification to the BES 6001 standard.

Newton's Recycling Service also expands to include metal/plastic bottles and containers in its recycling capability.

2017

Introduces the first recycling service for waterproofing waste products, for free.

The service recycles over 4 tonnes a year, providing participating contractors with their own sustainability data, as well as the ability to produce site-specific recycling reports for clients and specifiers.

2017

Newton 508 eco Floor and 520 eco are launched. The two System 500 products are the first cavity drain membranes in the UK to be manufactured from 100% recycled HDPE and also carry third-party certification from the British Board of Agrément (BBA).

2001

Introduces the first products manufactured from 100% recycled material.

Newton BaseDrain and FloorDrain, integral components of System 500, are manufactured from 100% recycled PVC, and each year over 35 tonnes of the products are sold.

BES 6001 & BREEAM

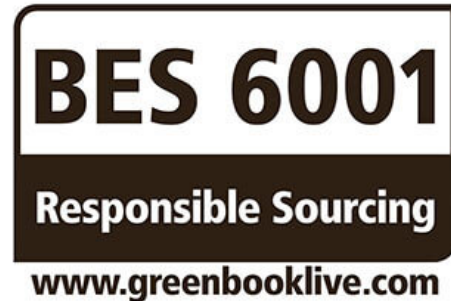
THE FRAMEWORK STANDARD FOR THE RESPONSIBLE SOURCING OF CONSTRUCTION PRODUCTS

As the name suggests, the BES 6001 standard from the Building Research Establishment (BRE) is a means of demonstrating, via independent, third-party certification, that products approved by the scheme have been responsibly sourced.

Certification to BES 6001 is voluntary, and companies wishing to meet the standard must satisfy certain elements within each of the main areas of organisational management, supply chain management, and environmental and social responsibility management.

As of the 14th of December 2020, Newton set a new standard in UK waterproofing by becoming the first supplier to have an entire waterproofing solution certified to BES 6001.

Consequently, as well as being a comprehensive and maintainable 'Type C' waterproofing solution, thanks to our comprehensive management systems the Newton CDM System is now also the only Type C waterproofing system available from a UK supplier with BES 6001 certification that will also contribute towards BREEAM.



MAXIMISING BREEAM CREDITS

Newton can ensure that your waterproofing specification not only protects your structure, but also helps maximise your BREEAM score without compromising on performance.

The Building Research Establishment Environmental Assessment Method (BREEAM) is the longest standing and most widely used environmental assessment method for UK buildings, in which credits are awarded according to performance across 10 sustainability categories.

Credits are awarded on a building-wide basis, calculated from the percentage of available points that have been achieved within each category.

Newton has calculated the points that we can contribute towards your BREEAM assessment:

MATERIALS 03: Responsible Sourcing for Materials*

1 point - Newton's ISO 14001 certification.

5 points - Newton System 500 certification to BES 6001, also confirmed on GreenBookLive.

* Please note that the points score for the Materials 03 category can be awarded for either BES 6001 or ISO 14001, and is not cumulative for both certifications.



Certificate of Approval

Certificate Number: RS0057

Issue: 01

Newton Waterproofing Systems

having complied with the requirements of:

BES 6001: Issue 3.0

Framework Standard for Responsible Sourcing

has achieved a performance rating of: **Good**



and is authorised to use the BRE Global Certification Mark on the following product(s) and associated stationery and publications.

Head Office Address

Newton House
17-20 Sovereign Way
Tonbridge
Kent
TN9 1RH

Production Site(s)

See appendix for details

Emma Baker
Scheme Manager

14 December 2020
Date of this Issue

14 December 2020
Date of First Issue

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BRE Global Ltd., Garston, Watford WD25 9XX.
T: +44 (0)333 321 8811 F: +44 (0)1923 664603 E: Enquiries@breglobal.com



RECYCLING PERFORMANCE

IN 2021 WE
RECYCLED
2.608
TONNES OF
MEMBRANE

THIS EQUATES TO
126
BAGS OF WASTE
MEMBRANE OFFCUTS

AT AN AVERAGE
OF APPROXIMATELY
20.70
KILOGRAMS
PER BAG

NEWTON RECYCLING SERVICE 2021

Now in its fifth full year, the award winning and free Newton Recycling Service is still pushing sustainability best practice in UK waterproofing.

During 2021 the biggest development was the expansion to also recycle plastic and metal bottles and containers from our liquid products, through a new partnership with a leading specialist company in hazardous waste management.

In the first few months since the update we have received over a quarter of a tonne of new material for recycling, with the potential for many more hundreds of kg per year.

Finally, another trend that became increasingly clear in 2021 is the efficiency with which our specialist contractors are using their materials. Whilst this is resulting in less material returned for recycling, it also means that there is less waste being created in the first place, as the service enables our specialist contractors to see exactly how much they are recycling and how this affects their overall material efficiency.

The recycling service will always remain completely free to all via our nationwide network of specialist waterproofing contractors.

“When we deliver a building we’re trying to make it as sustainable and energy efficient as we can. If you’ve got two products that are comparable and one of them has a recycling scheme like Newton’s, then obviously it’s a bit of a no-brainer.”

Matthew Edwards, Associate Director, HGP Architects



THIS AVOIDED THE PRODUCTION OF
2.99
TONNES OF CARBON DIOXIDE¹

EQUIVALENT TO OVER
11,712
KILOWATT HOURS OF ENERGY

WHICH WOULD BE ENOUGH ENERGY TO MAKE
416,453
MUGS OF TEA



The Newton Recycling Service in practise at a large vault waterproofing project in Central London

HOW IT WORKS

1



DELIVERY

From Newton's warehouse, waterproofing products are delivered to our specialist contractors across the UK. Deliveries in London and the South East are also provided by Newton's own in-house fleet of FORS certified vans.

2



INSTALLATION

Newton specialist contractors install Newton's recyclable products, such as HDPE cavity drain membranes and PVC drainage systems, and collect all of the off-cuts and waste in dedicated tonne bags provided by Newton.

3



COLLECTION

Whilst making deliveries of new products to our specialist contractors, Newton collects the full bags of recycling and returns them to Newton head office on the backload, therefore avoiding creating additional emissions.

4



REPROCESSING

Newton invested in purchasing an industrial granulator and training staff to reprocess all waste product in-house. Plastics are processed according to the type of material, and stored in the Newton warehouse in bulk bags.

5



RECYCLING

Once a large quantity of processed material has been accumulated, the bulk bags are collected by one of the UK's largest plastic recyclers, who transform all of it into new raw materials, ready for the next stage in its lifecycle.

6



MANUFACTURING

The Newton Recycling Service is a closed-loop process as the recycled raw material is sold by the plastics recycler to construction materials manufacturers, who turn it into brand new construction products, such as pipe work.

TOTAL PERFORMANCE

RECYCLING & SUSTAINABILITY STATISTICS SINCE 2017

The service was first launched in March 2017. The below data is correct up to the end of 2021.

Emissions Avoided	Unit	Total
Number of bags of recycling returned	Each	891
Total weight of all product returned for recycling	Tonnes	20.622
Average weight of the recycling bags	kg	23.14
Total emissions avoided by the recycling service	kgCO ₂ e	23,695
Transport and Logistical Savings	Unit	Total
Total skip space saved on site (Based on 12 yard ³ skip)	No. of skips	97
Number of skip journeys prevented to/from site	No. of journeys	194
Energy Savings and Equivalents	Unit	Total
Emissions translated into an equivalent volume of petrol	Litres	10,785
Energy savings achieved by recycling Newton products	kWh	92,613
Value of energy savings on the UK national grid	£	13,308.48
How many mugs of tea could be made with that energy	Each	3,292,905
100% Recycled Products	Unit	Total
Weight of all recycled HDPE & PVC products sold	Tonnes	771.88
Emissions prevented	kgCO ₂ e	882,015
Equivalent energy savings	kWh	3,447,525
Financial value of energy savings	Pound Sterling	£493,309
Energy translated into number of mugs of tea	Each	122,058,999

SUSTAINABLE PRODUCTS

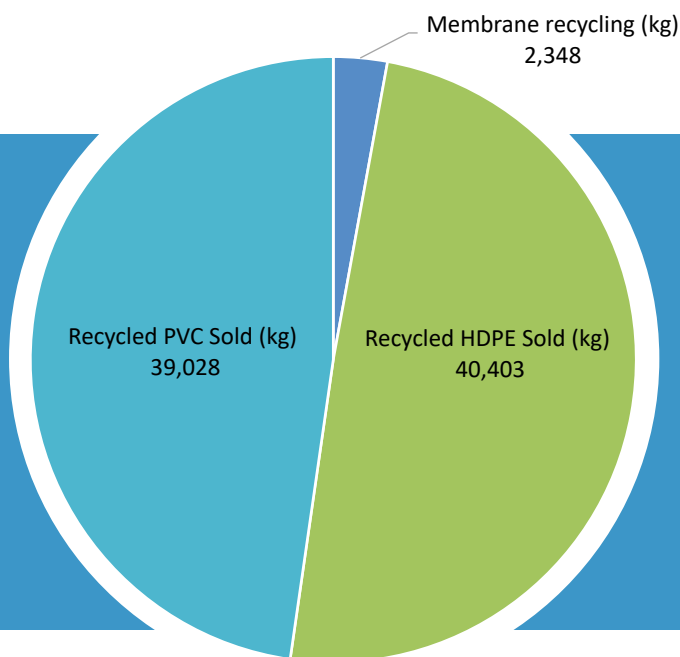
100% RECYCLED PRODUCTS

Newton are the only UK waterproofing suppliers with two HDPE cavity drainage membranes that are 100% recycled and BBA-certified - Newton 508 eco Floor and Newton 520 eco.

Both Newton Basedrain and Newton Floordrain are also manufactured from 100% recycled PVC.

No other waterproofing supplier can provide as much tangible data on the environmental savings from specifying our recycled products. For example, in 2021 our recycled product range delivered:

Product	Weight (kg)	Emissions Avoided (kgCO ₂ e)	Energy Saved (kWh)	Value of Energy	Mugs of Tea
BaseDrain	25,843	29,693.61	116,063	£16,678.27	4,126,689
FloorDrain	13,185	15,149.57	59,215	£8,509.19	2,105,421
508 eco Floor	17,010	19,544.49	76,393	£10,977.73	2,716,209
520 eco	23,393	26,878.56	105,060	£15,097.12	3,735,465
TOTAL	79,431	91,266.22	356,731	£51,262.30	12,683,784



COMBINED RECYCLING DATA

Combining the recycling data and recycled product data gives the following totals:

- 82.04 tonnes of material
- 94.26 tonnes of CO₂e emissions prevented
- 368,444 Kilowatt Hours of energy saved
- Energy with a value of £52,945.43
- Enough energy to make over 13 million mugs of tea

SUSTAINABLE PRACTICES

HAZARDOUS WASTE MANAGEMENT PARTNERSHIP

With a successful recycling service for waste products well up and running, in 2021 we took the decision to also collect and recycle as much of our product packaging as possible. Therefore, from January 2021 the various plastic containers, bottles and buckets in which Newton's liquid-applied waterproofing products are stored and distributed can also be collected and recycled for free.

We estimate that over 7,000 plastic containers, manufactured from either polyethylene (PE) or polypropylene (PP) are sent out by Newton each year. By using the existing specialist contractor recycling network and a partnership with a specialist hazardous waste recycling company, we successfully and comprehensively rolled out the development over the course of 2021.

OFFICE & WAREHOUSE RECYCLING

Since 2017 Newton has collected and recycled all cardboard packaging and plastic pallet wrap waste from both our office and warehouse facilities at our headquarters in Kent.

Once a large quantity of both materials has been collected, baled and stored on pallets, the plastic and cardboard are both collected for recycling with a local waste reprocessor.

Product	Recycled Since 2017
Cardboard waste packaging	9.06 tonnes
Plastic film (pallet wrap)	7.92 tonnes
TOTAL	16.98 tonnes

SPONSORSHIP

We are proud to donate all recycling profits to the national marine conservation and campaigning charity, Surfers Against Sewage (SAS). As a member of the SAS 250 Club, we are part of a network of like-minded companies who share a common interest in protecting and cleaning the world's oceans.

"Surfers Against Sewage is a national marine conservation charity that inspires, unites and empowers communities to take action to protect oceans, beaches, waves and wildlife. Once a grassroots movement, it has grown into one of the UK's most active and successful environmental charities

The 250 Club is our business membership scheme and it's a chance to be part of a powerful network of leaders, driving forward a movement for change. As a member you enable us to protect the UK's unique coastal environment."



ACCREDITATIONS



ISO 9001
ISO 14001
ISO 45001

Certificate number 12252

ISO Standards

ISO 9001: 2015 – Processes and Procedures
ISO 14001: 2015 – Environmental
ISO 45001: 2018 SSIP – Health and Safety



British Board of Agrément (BBA)

BBA Agrément Certificate is a mark of excellence based on rigorous standards that validate a product's capability and uniqueness. Most of Newton's flagship waterproofing systems hold BBA approval.



BDA Agrément

BDA Agréments confirm the compliance and durability of products under the specified installation method. Newton's Agréments are recognised by architects, specifiers, engineers and Building Control.



Constructionline Gold

Newton currently holds Gold (level 3) membership of Constructionline, the UK's largest register of construction industry contractors, consultants and materials suppliers.



Building Research Establishment - BES 6001

Our Good rating from BES 6001 indicates that the products within the Newton CDM System are responsibly sourced and that Newton meets the compulsory requirements of the comprehensive standard.



UK Green Building Council (UKGBC)

As a member of UKGBC, Newton are working towards a more sustainable built environment, by transforming the way it is planned, designed, constructed, maintained and operated.



Supply Chain Sustainability School

Newton are proud to be bronze members of the school, a free, collaborative environment that aims to upskill those working within the built environment sector to become more sustainable.



Fleet Operator Recognition Scheme (FORS)

Being FORS accredited demonstrates that Newton's delivery fleet are achieving exemplary levels of safety, efficiency, and environmental protection.

AWARDS



The National Building Awards
INNOVATION OF THE YEAR - 2019
Winner



The Kent Excellence In Business Awards
COMMITMENT TO THE ENVIRONMENT AWARD - 2018
Winner



The British And Irish Trading Alliance
CHARLES DARWIN AWARD - 2019
Winner



The Property Care Association
SUSTAINABILITY AWARD - 2018
Winner



The Association Of Specialist Underpinning Contractors
SPECIAL ACHIEVEMENT AWARD - 2019
Winner



The Kent Environment Strategy
KENT ENVIRONMENT CHAMPIONS AWARD - 2018
Winner

Newton has also been fortunate that our recycling service and sustainability initiatives have been recognised and shortlisted in a number of other award ceremonies, including:

- The National Recycling Awards - Commercial Waste Reduction Initiative
- The London Construction Awards - Product Innovation of the Year
- Sustainable Construction Award
- The Construction News Awards - Best Innovation
- The Plastics Industry Awards - Best Environment or Energy Efficiency Programme of the Year

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WATERPROOFING

Newton House
17-20 Sovereign Way
Tonbridge, Kent, TN9 1RH

T: +44 (0)1732 360 095
E: info@newtonwaterproofing.co.uk
tech@newtonwaterproofing.co.uk
W: www.newtonwaterproofing.co.uk



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