



CONCISE CASE STUDIES

HOUSING SOLUTIONS IN THE URBAN ENVIRONMENT

ACO. creating the future of drainage





Housing is more than mere bricks and mortar. The location, quality of the build and the fit with existing or new communities are all factors that impact upon the people living in the housing.

Whether it's a new development, self-build or renovation of an existing property, the constructs of the home and its exterior give it character whilst also providing protection to ensure long-term durability.



Implementing an effective surface water management system is integral to the longevity of any home. Not only will it prevent any rainwater collecting and potentially impacting the structure of the brickwork, but it can also ensure gardens, driveways and thresholds are able to drain freely to avoid any long-term damage associated with excess standing water.

ACO offer a range of functional and attractive drainage options, from 'intercept' antique iron to discreet slot drainage, to complement any surface finish perfectly without compromising drainage effectiveness.



UPPER BOWEN FARM, BERKSHIRE

OBJECTIVE

The design and development of a 15m x 12m vegetable garden, with an aesthetically attractive floor surfacing secure enough to accommodate wheelbarrows transporting planting equipment throughout the garden.

SOLUTION

ACO's award-winning ground reinforcement system, GroundGuard, was installed to secure gravel and provide a neat outdoor garden area easily navigable by a wheelbarrow.

When the Berkshire based Bradfield & Davies building and landscape firm were looking for ground stabilisation in their development of Upper Bowen Farm, they unearthed ACO GroundGuard.

ACO GroundGuard is a lightweight ground reinforcement system that acts as a stabilisation tile, combining and holding in place the gravel surfacing used in the vegetable garden. For a busy working garden strength in the flooring was essential so that vegetable laden wheelbarrows could traverse the site with ease.

The tiles were cut to shape easily for the irregular edging, enabling the landscapers to install within time and budget. With a 90 percent porosity and the semipermeable effect of the gravel, water drains at a controlled rate through to the substrate below.





GREAT KNEIGHTON, CAMBRIDGE

OBJECTIVE

Great Kneighton is one of the most recent developments to be built in Cambridge. Targeting affluent home-owners, the specification of high-quality products was essential during the build stage.

SOLUTION

ACO was able to provide the whole package of benefits with ACO MultiDrain® MD installed in garage frontage and shared parking areas.

Great Kneighton is a housing development winner of 10 prestigious awards, sitting in proximity to the Cambridge Biomedical Campus and accessible to the historic city by an innovative guided bus service.

The development required a flexible drainage solution and ACO iron proved to be the missing element. ACO MultiDrain® MD with ductile iron Heelguard™ gratings installation sit in the parking bays and paved public areas around the housing development.

Closer to home ACO MultiDrain® MD is used with a composite; Heelguard™ C 250 Load Class gratings that line the front of driveways and paths, its corrosion resistant material ensuring the longevity of the look in this high-end estate.





DRIVEWAY INSTALLATION, COULSDEN, SURREY

OBJECTIVE

To resurface and expand a residential driveway with new block paving, incorporating a discreet drainage solution to overcome the increased impermeable surface area.

SOLUTION

ACO's RainDrain® B125 was installed at the front of the driveway, a black grated channel drainage solution collecting the water runoff while coping with the vehicular traffic of the homeowners.

Driveways installations require consideration of drainage solutions, as incorporating this negates the need for planning permission, normally required to finish a drive with block paving. The direction of the driveway's slope pointed to a front of drive drainage solution and so needed to withstand vehicular wheel loads.

Tom Parsons the Contractor from Rainbow Gardening alighted upon ACO RainDrain® B 125, for its aesthetic appeal as well as the extra assurances the B 125 load class offered, when compared to A 15 Load Class alternatives.

Drainage designed to last with a lightweight interlocking 1m channel design, with clip-locking grating, made RainDrain® easy and quick to install.





TRUMPINGTON MEADOWS, CAMBRIDGE

OBJECTIVE

The creation of a large amount of new homes and drainage solutions, complying with the Level 3 standards of the 'Code for Sustainable Homes'.

SOLUTION

ACO RainDrain installed at driveway entrances, garage thresholds and parking areas throughout the Trumpington Meadows development.

Trumpington Meadows is set to become one of the key residential developments in Cambridge, helping to relieve the pressure on affordable housing and support the city's future growth. Set in 148 acres of open space the 1,200 phased home building were built to Level 3 standards of the 'Code for Sustainable Homes'.

ACO's lightweight channel drainage system, RainDrain®, was selected for installed at driveway entrances, garage thresholds and installation in parking areas throughout the Trumpington Meadows development.

Manufactured from Vienite®, ACO's high-strength polymer concrete, containing recycled post-consumer waste, the 1m channel units come complete with a galvanised steel clip locking grating for secure and simple installation across this large development.



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