



**THE FLOOD
ADAPTIVE
PLATFORM**

A **Flood Technology Group** product



floodtechnologygroup.com



What is the Flood Adaptive Platform?

Twelve years in the making, the multi-purpose Flood Adaptive Platform is a groundbreaking mechanical jack system that's designed to detect and react to flood conditions by automatically elevating above the rising water.

Rigorous testing in flood environments, in conjunction with the University of Liverpool and HR Wallingford, has confirmed that it's safe and highly effective.

This technology has already been successfully applied to modular buildings and mobile homes, highlighting its ability to protect people and their property from the threat of flooding, but its potential is limitless. It can be used to protect a vast range of infrastructure across many different sectors, from utilities and energy to commercial and transportation.

Based on research we've commissioned, The Flood Adaptive Platform costs 40 per cent less to install, operate and maintain than other comparable methods of flood risk mitigation, including flotation-based systems.

By adopting a low-carbon, off-site approach to its assembly, the greenhouse gas emissions from manufacturing, operating and maintaining the Flood Adaptive Platform are up to 90 per cent lower than those from comparable methods of flood risk mitigation.

The Flood Adaptive Platform adheres to the relevant regulatory frameworks for quality and safety. It complies with both UKCA and CE marking standards, ensuring that it meets all applicable safety, health, and environmental regulations in the UK and EU markets.



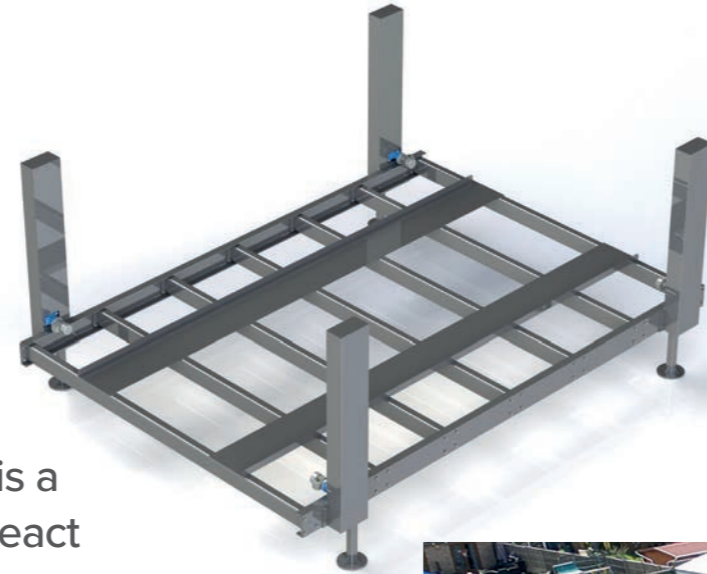
How does it work?

A series of industry-approved smart sensors are installed around the platform to detect a flood event. Within 15 seconds, these sensors trigger the control panel, which initiates the mechanical jacks to automatically lift the whole structure above the water level, to a maximum height of 2 metres.

They keep it above the water level until it's safe for the structure to return to ground level.

The Flood Adaptive Platform is 40 mile per hour impact tested, 80 mile per hour wind tested and one metre wave tested. It has the ability to rise from ground level to a maximum height of 2 metres in approximately 30 minutes, which is quicker than the fastest rate of flood inundation recorded in the UK.

Cost effective and simple to construct, it's made with tried and tested off-the-shelf components and can run off mains, battery or generator power. As well as an ability to operate using back-up power systems, the robust, fail-safe design that we've developed is not dependent on microprocessors, making the Flood Adaptive Platform less prone to electrical failure, although it can also be operated manually.



How can this technology be used?

Mobile homes and holiday lodges

By applying our innovative technology to mobile homes and holiday lodges, we can support the safe development of prime plots of land adjacent to bodies of water and in areas of flood risk, thanks to its proven ability to keep people and property safe throughout a flood event. This is particularly important in flood-prone and coastal areas, where the impact on tourism hits business owners hard.



There are approximately 365,000 caravan holiday homes and an additional 100,000 residential park homes in the UK, with around 73,000 holiday caravans and 10,000 park homes at moderate or significant risk of flooding. In the region of 20,000 caravan pitches in the UK are not even being used due to flood risk, according to data from the National Caravan Council.

We're delighted to be working with tourism businesses in several different areas of the country to help them future-proof their operations against the growing flood risk that we face.

Both new build and retrofit tested versions of our Flood Adaptive Platform are available to suit all mobile home types, including single, twin and bespoke units.



Key benefits of the Flood Adaptive Platform for mobile home, caravan and holiday lodge owners:

- ✓ It's safe, reliable, affordable and offers a great return on your investment.
- ✓ It will help you generate additional income by unlocking land for development.
- ✓ New build and retrofit tested systems are available now.
- ✓ It's fully insurable through Compass, with product warranty plus an annual test and service included as standard.
- ✓ It offers improved flood warning and site evacuation, thanks to our real-time sensor technology.



How can this technology be used?

Modular buildings

Our technology has also been applied to modular buildings, such as the Hadley FloodSAFE House, which we developed in partnership with Hadley Group.

A low carbon, steel-framed house, which is manufactured off-site, it looks just like a normal house but, because it sits on our Flood Adaptive Platform, it has the ability to keep the contents safe and dry. Modular build techniques are routinely used in affordable and social housing developments, which makes our technology a hugely attractive prospect for local authorities and housing developers across the UK and beyond.

As well as keeping people and their property safe, our unique products have the potential to reduce the pressure on the emergency services during flood events and drastically reduce the clean-up costs associated with flooding. What's more, they also offer local authorities and developers huge potential for development in areas of high flood risk, which would previously have been considered off-limits.

We believe that our flood adaptive technology can play an important role in attracting inward investment to areas where greater flood resilience is needed, as well as helping to negate the need for costly, carbon heavy flood mitigation work.

Your questions answered:

Scan this QR code for all to the answers to the most frequently asked questions.



To spread the cost of your business investment, contact Portman Finance Group, a provider of fast and flexible finance solutions to both established and start-up businesses.
Visit: www.portmanfinancegroup.co.uk



What do our customers and partners say about the Flood Adaptive Platform?

We're really excited by the potential that the Flood Adaptive Platform offers, particularly for riverside holiday parks like ours, where the close proximity to the water is a major draw for people. "The fact that the technology could be retrofitted to an existing lodge with minimum disruption was a huge plus for us and we're proud to be working in partnership with the Flood Technology Group to showcase the UK's first flood adaptive holiday lodges. This type of technology really is a game-changer for the mobile home and holiday lodge sector.

Nic Allen, Avon Estates.

Compass Insurance is proud to pledge support for Flood Technology Group customers. We feel this has been the most exciting development for the last decade or two in terms of flood protection and are therefore happy to consider full flood cover for caravans, lodges and park homes where a Flood Adaptive Platform has been manufactured, installed and is maintained by FloodTechnology Group.

Karen Stacey,
Managing Director of Compass Insurance.

Our Flood Adaptive Platform has been rigorously tested in conjunction with:



Our Flood Adaptive Platform technology is endorsed by Compass, which provides specialist insurance cover for holiday and residential park customers.



We are proud to be an Associate Member of the British Holiday & Home Parks Association and the National Caravan Council.



Case Study

How we created the world's first flood adaptive holiday lodges in Warwickshire.

During the early part of 2024, we worked with Avon Estates in Warwickshire to create the first fully flood adaptive holiday lodges in the UK.

We did this by retrofitting our ground-breaking Flood Adaptive Platform to two existing luxury holiday lodges on Avon Estates' site at Stratford-upon-Avon, which overlooks the River Avon and has previously been affected by flooding. Twelve years in the making, the Flood Adaptive Platform is a multi-purpose mechanical jack system that's designed to detect and react to flood conditions by automatically elevating above the rising water.

Thanks to the Flood Adaptive Platform on which they sit, when rising flood water is detected, these two lodges will now automatically lift above the water level, to a maximum height of 2.1 metres above the ground, and remain there until it's safe to return to ground level.



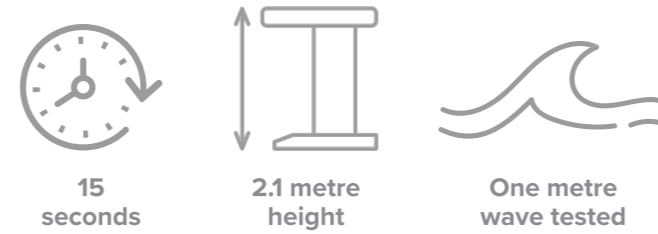
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Simon Gilliland of the Flood Technology Group said:

With climate change increasing the frequency and scale of flood events, we believe that property flood resilience measures must also continue to evolve if we're to keep our homes, businesses and infrastructure safe. This is particularly important in flood-prone and coastal areas, where the impact on tourism hits business owners hard.



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What is Flood Technology Group?

Launched in 2023, Flood Technology Group is a leader in the field of flood adaptive technology and a benchmark for quality. An association of companies, it brings together a range of innovative products, services and solutions with a proven ability to adapt to flood water as it rises.

By working together, we're using our collective knowledge and experience in the rapidly evolving flood technology field to develop and champion flood adaptive technology that will future-proof homes and infrastructure against the increased flood risk posed by our changing climate.

Flood Technology Group is uniquely positioned to help protect communities in flood risk areas by offering a complete flood adaptive technology solution to local authorities, developers and home owners.

Where it all began...

Flood Technology Group was founded by Andrew Parker, who designed the groundbreaking Hadley FloodSAFE House and the mechanical jack system on which it sits.

Andrew, whose background is in domestic construction, has spent the last decade honing and testing his products, working with experts at the University of Hull's Flood Innovation Centre, the Department of Civil and Environmental Engineering at the University of Liverpool and the HR Wallingford hydraulics research laboratory near Oxford.

Flood Technology Group is proud to be working with Phoenix Sustainable Investments, an award-winning developer of sustainable energy and innovation projects. Together, they have an unparalleled wealth of knowledge, capability and expertise in the field of flood technology.

Our Chief Executive, Simon Gilliland, is a Chartered Engineer with a wealth of experience in flood risk management and the water environment sector. Simon is a Fellow of the Institution of Civil Engineers and a member of the Department for Environment, Food and Rural Affairs' Property Flood Resilience Roundtable.



Andrew Parker



Simon Gilliland





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