

Temporary Bridging

Welcome to Mabey

Operating from 17 depot locations across England, Scotland and Wales, we combine full UK coverage with localised depot solutions.

We have decades of extensive construction industry experience and continue to remain at the forefront of the UK's temporary works industry by providing quality products and solutions including engineering support, exceptional customer service and continual investment in the products that we offer for hire and sale.

Mabey is a leading supplier of modular and proprietary temporary works equipment for ground support, formwork, falsework, refurbishment and a wide range of other systems in the UK. View our other product brochures for details on Groundworks, Propping and Jacking, Formwork and Falsework, LIVE Instrumentation, Contract Services, Major Projects and the dedicated Training Academy.



Temporary Bridging

Mabey specialises in rapid-build, pre-engineered, modular bridging solutions to develop, improve and repair essential infrastructure in urban and rural areas. We have installed more than 500km of steel bridging all over the world and we are proud of our reputation as a world-class manufacturer of high-quality bridging systems.

Our comprehensive modular bridging product range, vast engineering skills, high-tech manufacture and full-scale testing capability, combined with our experience in rapid bridge installation, construction and project finance makes us unique, and earns us the worldwide reputation of being a reliable bridging supplier and engineering partner.

- Comprehensive range of bridging solutions
- Modular, pre-engineered solutions with standard interchangeable components



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Quickbridges

Mabey Quickbridges are a modular “off the shelf” solution to your bridging requirements. Available in both footbridge and road formats, Quickbridges can be used for pedestrian or vehicular traffic.

Available in both road and footbridge form, Quickbridges provide an easily installed, off the shelf solution to both temporary and permanent bridging requirements.

Quickbridge units are delivered to site complete with parapets and anti-skid surfacing, ready to lift directly from the vehicle onto prepared bases. The simplicity of this operation, together with the minimal end depth provided by the Quickbridge to reduce ramping requirements, can reduce installation time and cost.

The most recent generation of Quickbridges has been designed to cater for both the current Highways loadings and a variety of off-road vehicles. Units are available in two formats, flat top and rollover; the latter minimises structure depth for over-bridging applications.

The versatility of the Quickbridge system is demonstrated by its regular use throughout the industry as single or multi span road bridges, site access bridges, loading/piling platforms and site access ramps.

- Range of standard spans from 6m to 20m in both formats
- Modular width of 1.725m allows variety of carriageway configurations
- Flat top, rollover and footbridge styles to suit requirements



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Flat Top

Flat Top Quickbridges are designed in a traditional “fish belly” format. The units are ideal for either single or multi span applications spanning any obstruction where the unit depth can be easily accommodated.



| | 6m | 9m | 12m | 16m | 20m |
|---|------|------|-------|-------|-------|
| Overall Length (mm) | 6088 | 9140 | 12180 | 16240 | 20300 |
| Modular Width (mm) | 1725 | 1725 | 1725 | 1725 | 1725 |
| Max. Depth (centre) (mm) | 530 | 530 | 635 | 808 | 1050 |
| Min. Depth (ends including bearings) (mm) | 320 | 320 | 320 | 502 | 502 |
| Unit Weight (excluding parapets) (kg) | 3600 | 4960 | 7315 | 11160 | 14250 |
| Weight of Parapet & Kerb (one side) (kg) | 790 | 920 | 1340 | 1500 | 1960 |

Rollover

Rollover Quickbridges are available in the same span range and unit widths as the Flat Top units, but are particularly useful where clearance to the underside of the bridge is important in applications such as over-bridging where existing structures are awaiting or undergoing repair or strengthening.



| | 6m | 9m | 12m | 16m | 20m |
|---|----|------|-------|-------|-------|
| Overall Length (mm) | - | 9140 | 12180 | 16240 | 20000 |
| Modular Width (mm) | - | 1725 | 1725 | 1725 | 1725 |
| Max. Depth (centre) (mm) | - | 486 | 590 | 683 | 1015 |
| Min. Depth (ends including bearings) (mm) | - | 320 | 320 | 502 | 616 |
| Unit Weight (excluding parapets) (kg) | - | 5230 | 7095 | 12605 | 17055 |
| Weight of Parapet & Kerb (one side) (kg) | - | 920 | 1330 | 1500 | 2000 |

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Footbridge

Quickbridge Footbridge units have extended the modular rapid deployment principles of the road unit and applied them to a footbridge. Available with a 2m walkway, the footbridge has unique hinged parapets that are laid flat for transportation.



Once the footbridge unit is lifted into place, the parapets can be raised and pinned into position from on top of the unit, eliminating the need for access under the structure and providing an immediate safe working environment. The footbridge is available in 6m and 12m units that can be spliced together to provide 18m and 24m bridges.

| | 6m | 12m | 15m | 18m | 24m |
|---------------------------------------|------|-------|-------|-------|-------|
| Overall Length (mm) | 6000 | 12000 | 15000 | 18005 | 24010 |
| Walkway Width (mm) | 1940 | 1940 | 2000 | 1940 | 1940 |
| Unit Depth (centre) (mm) | 686 | 686 | 632 | 686 | 686 |
| Handrail Height (mm) | 1500 | 1500 | 1100 | 1500 | 1500 |
| Unit Weight (excluding parapets) (kg) | 4650 | 8900 | 8000 | 13450 | 18100 |

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Panel Bridges

Our panel bridging systems can be delivered to site in component form, allowing the construction of major structures in areas of restricted access. The bridging systems can be assembled quickly and safely using a small crane.

Mabey panel bridge systems are in use throughout the world in both temporary and permanent applications. Mabey offers these proven bridging systems together with many years of engineering and installation experience in the UK market.

Mabey panel bridge systems offer a unique combination of span configuration, deck widths and load capacities, making them suitable for road diversions, site access, haul road and pedestrian use.

Bridges can normally be supplied direct from stock, complete with highway or heavy-duty contractors' decks, anti-skid surfacing, parapets, kerbs and walkways as required. Single spans of up to 80m can be achieved; multi-span configurations are also available, with piers designed using standard components from our extensive range of tower equipment.

Mabey bridges are regularly used in permanent situations, often where cost or restricted access are important considerations.

Mabey supplies two panel bridge systems for hire and sale:

- **Mabey Universal (MU) system** - Truss panels are 4.5m long; half panels 2.25m in length are also available. Span lengths are therefore specified in increments of 2.25m
- **Mabey Compact 200 (C200) system** - Truss panels are 3.048m (10ft) long. Span lengths are therefore specified in increments of 3.048m



Highway and Contractors Bridges

At the heart of Mabey's panel bridging business throughout the UK and Ireland are highway and contractors' bridges. Mabey panel bridges are provided during bridge strengthening or replacement works to minimise disruption to the public avoiding lengthy, unpopular diversions and to speed contractors' programme times by removing traffic from the work area completely.

Road bridges can be designed to current Highways loading for use throughout the road network for applications ranging from motorways and trunk roads to minor rural lanes. The availability and speed of construction of Mabey panel bridges enables us to provide rapid over-bridge or diversion routes in emergency situations such as after a bridge strike incident or when a structural fault is identified on the road network.

The temporary bridge provides a safe crossing for the road users whilst allowing engineers access to assess and remedy the problem.

Mabey panel bridges can be designed specifically for heavy off road earthmovers, cranes and general plant.

Bridges are supplied in component form and can be built on site in areas with limited or difficult access.

- Clear spans of up to 80m
- Available with single lane, extra wide and two lane carriageway
- Vehicle parapet available
- Range of installation methods to suit site situation
- Cantilever footways are available



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Multi-span Bridges

The versatile Mabey panel bridging systems can be built into multi-span arrangements using standard components.

Span junction details, pier top beams and bearings can be constructed using items supplied from stock.



Ramps and Side Spans

Our bridging range is often used to provide ramps into construction sites during excavation works and basement construction.

Bridges can be built in situ where necessary and then removed in small pieces from within new structures and construction projects. We have developed a number of techniques with clients and are pleased to discuss individual, seemingly impossible requirements bringing specialist knowledge on both the products and installation possibilities.

The versatility of our bridging range is further demonstrated by the use of Quickbridge units in combination with panel bridges. Quickbridges are regularly used as approach spans or ramps, providing a fast, off the shelf solution reducing the need for time consuming and expensive fill ramps.



Footbridges

Single or multi-span footbridges can be constructed using standard components from the panel bridge range.

A 2m wide walkway transom and deck units are available from stock, wider deck widths are also available. Used in both temporary and permanent situations, Mabey panel footbridges can be clad or decked in timber if required for use in rural or sensitive applications.

Steel mesh panels may be attached to the trusses to increase safety and prevent debris falling from the bridge.



Towers

Using our range of in-house designed propping systems, we can provide piers and support towers for multi span or elevated bridges quickly and economically.

Mat 125 has been purposely designed to build into stable high load support towers, ideal for the support of multi span road or contractors' bridges. For shorter spans or lighter loadings, we can provide Mass 50 piers. Footbridge piers can be constructed from our Mass 25 system. Standard components are used throughout, minimising cost and installation times.



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There's more to



enabling global infrastructure



Groundworks

Excavation shoring and bracing equipment



Propping & Jacking

From light propping to heavy duty projects



Formwork & Falsework

Including Frami panel system and System 160



Building Refurbishment

Façade restraint, propping and needling



Quickbridges

6m to 20m vehicular and pedestrian spans



Panel Bridging

Single spans up to 80m

Mabey offers a range of site access systems including TuffTrak temporary roadways and short span trench crossing solutions.

Please visit www.mabey.com for more information



Site Access & Barriers

Including TuffTrak, BarrierGuard and Trench Crossing Units



Contract Services

Full sub-contract design, supply and installation



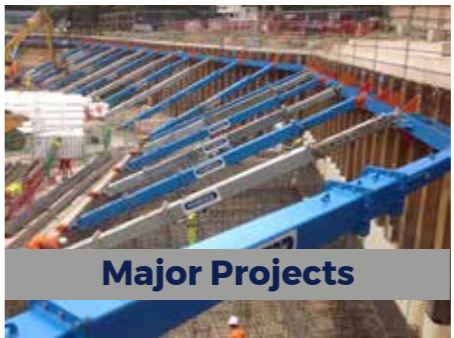
Product Sales

Extensive range of specialist equipment



LIVE Instrumentation

Structural and environmental monitoring services



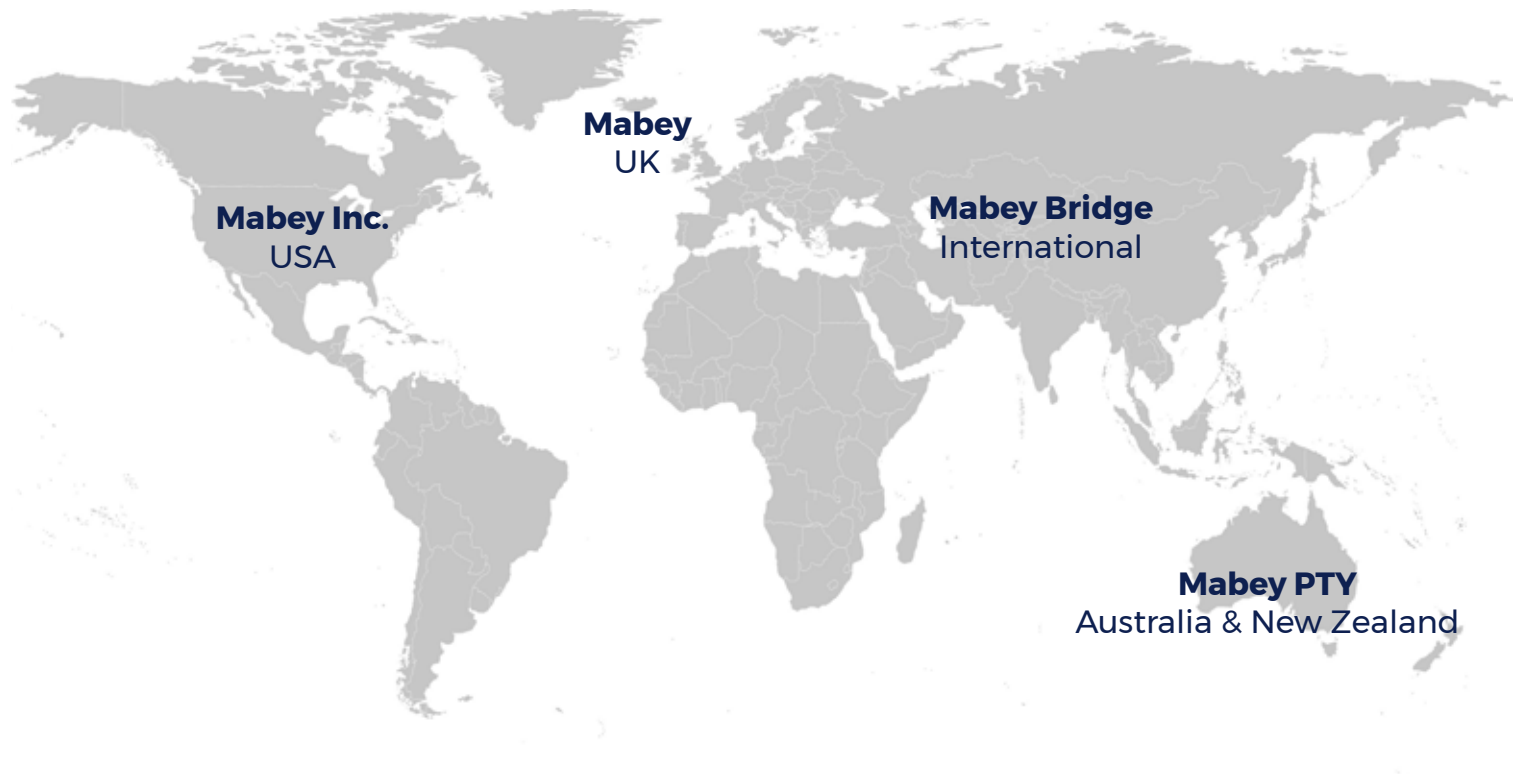
Major Projects

Large-scale temporary propping solutions



Training Academy

Competency-based training in real site conditions



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