

Update

Layher®



- ✓ EQUIPMENT
- ✓ DESIGN
- ✓ SUPPORT
- ✓ EXPERIENCE
- ✓ VERSATILITY
- ✓ EXPERTISE

NOVEMBER 2010

**Layher
Allround®
Scaffolding**

Innovation, innovation, innovation

“ From the smallest detail to major new systems – it's Layher's creative thinking that offers more possibilities. ”

Sean Pike, Managing Director, Layher Ltd.

The principles on which Layher's success throughout Europe and, indeed, worldwide have always been based – and which have



perhaps been brought into sharper focus than ever before in recent times – offer clear cut advantages to each individual customer.

A commitment to safety and proven, high quality manufacturing procedures go hand-in-hand with a belief in design quality and, as is demonstrated in this issue of 'Update Layher', product innovation.

“We firmly believe that product development should be based not only on developing major new systems – such as our new Allround® Bridging System – but also on creative thinking that addresses specific installation needs,” says Layher's UK MD Sean Pike.

“That's why, for example, when our design engineers turned their attention

to scaffold installation on uneven ground, their approach led directly to the development of the Adjustment Plate for Base Jack – the **prototype** version of which is featured inside.

“Such developments have long been a key feature of our product range – our well-established console extension bracket design and the telescopic steel decking are good examples,” continues Sean Pike. “Whilst our major system developments open up new opportunities for all of our customers, we are as committed to a belief that the small details are just as vital.”

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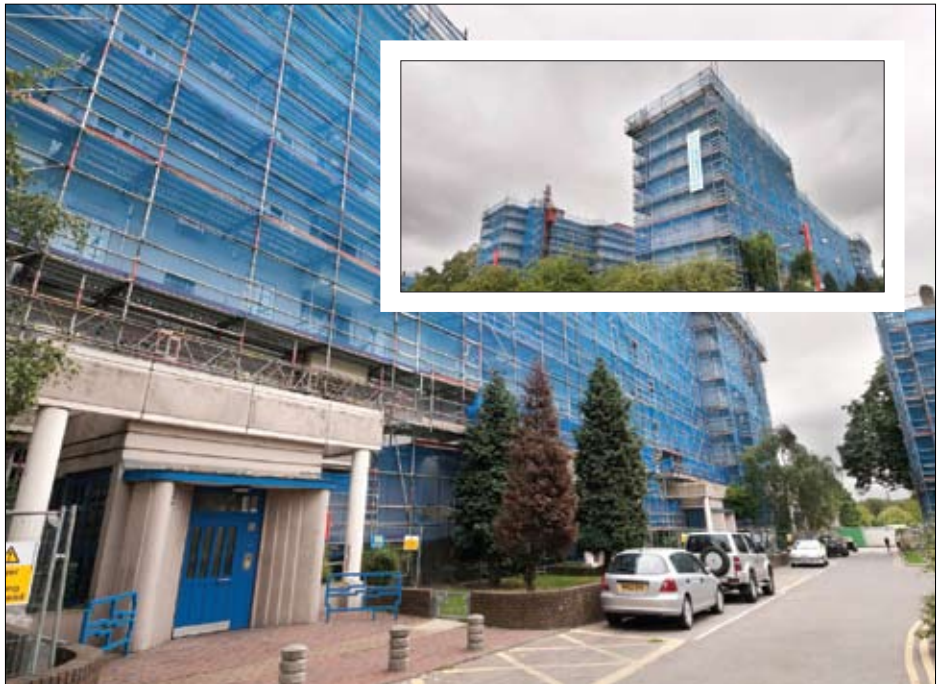
Safety and training at the top of the agenda – and now with BSI accreditation!

LONDON

Allround® at home during residential refurbishment

TRAD Scaffolding, appointed by main contractor Mulalley and Co. Ltd., has made comprehensive use of Layher Allround® during the refurbishment of 19 residential apartment blocks as part of the Hackney Regeneration Scheme. Strict scheduling and full access objectives have been fulfilled with installations up to 11 storeys in height at the Seven Sisters site, which has seen work that includes redecoration, window replacement and balcony refurbishment.

"The Layher Allround® scaffolding system and steel decking provided façade scaffolds that allowed us to address specific design considerations at site," says TRAD's Contracts Manager, Simon Taylor. "No cross-bracing meant clear walkways, whilst we were also able to cantilever around balconies." Layher Stairtowers, providing multi-personnel access, were also incorporated into the design.



"This is an excellent example of the benefits of our Allround® design," says Layher's UK MD, Sean Pike. "Speed of erection, built-in connection systems and a choice of fixing

positions have all contributed to the success of the scaffolding installation, which also saw each block remaining occupied throughout the project."

SURREY

Meeting needs in the heart of Surrey

TONE Scaffolding has achieved scaffolding performance and environmental objectives in Surrey with an innovative scaffold design at the heart of the Albury Gas Storage Project – created to examine the development of an underground storage facility where natural gas can be injected and withdrawn as required to meet local consumer demand.

"Correctly, this involved consultation with local people who raised concerns when appraisal drilling commenced, leading to the solution that we then developed," comments TONE Scaffolding MD, Andy Needham.

"We constructed a scaffold 'box', featuring Layher Allround® and sound-deadening Protect systems, to encapsulate the drilling rig," he adds. "Designed to be free standing, the structure used a system



of kentledge and guy wires that were all contained within the structure."

The installation is now set to contribute to

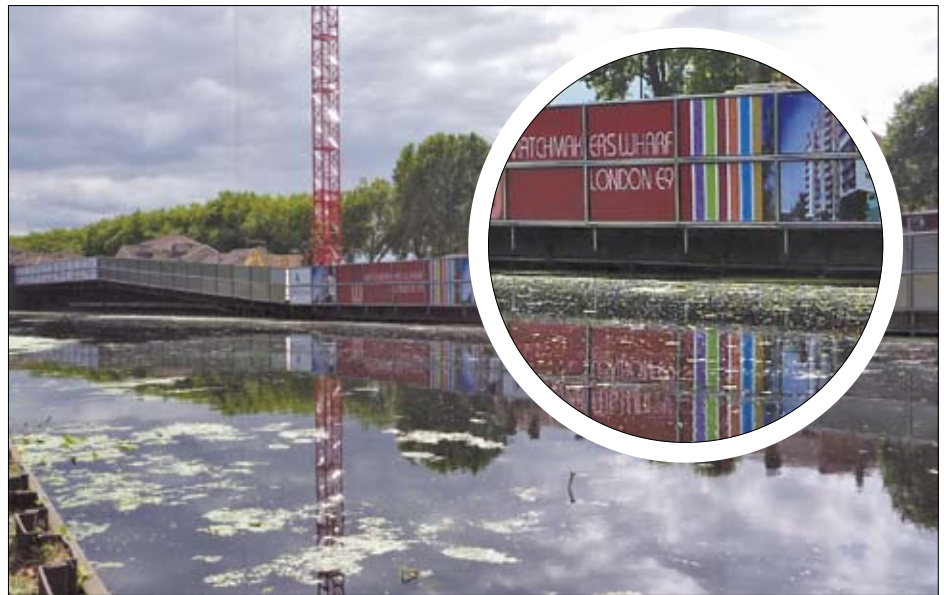
the successful operation of a facility which could satisfy the annual gas supply needs of some 450,000 homes."

LONDON

Protect brings protection and 'advertising opportunity' to Telford Homes

Connect Scaffolding has provided an innovative use of the Layher Protect system at Telford Homes' Matchmakers Wharf development close to London's Lea Valley Park and Hackney Marshes. The design has helped ensure the inevitable dust and debris was minimised within the riverside environment and saw Protect installed as a steel sheet hoarding running some two-metres in height and 110 metres along the river edge.

"We connected console brackets into the concrete edging to the waterway as a cantilevered support for a steel walkway," says Connect Scaffolding Director, Oliver Cave. "This supported Allround® scaffolding standards to which the Protect was fixed with a number of advertising vinyls, applied off site, to promote the development." This produced a useful opportunity to highlight this major Telford Homes project, destined to offer some 200 homes.



BRADFORD

Staying one step ahead at the University of Bradford



The University of Bradford and developers Listerhills SSV Limited, a joint venture between Welbeck Land and the Hayaat Group, is now well underway to building the first UK BREEAM (BRE Environmental Assessment Method) 'Outstanding' student accommodation on the University campus. Importantly, the Layher Allround® system, installed by Acorn Scaffolding, has matched the rapid build characteristics of the timber frame construction.

Main contractor, GB Building Solutions is building 11 individual blocks, each scheduled to match completion targets of no more than 30 weeks.

"We have provided more than 10,000 linear metres of fully boarded scaffold system installed up to 11 lifts," explains Acorn Scaffolding's Director, Rebecca Nutter, "all benefiting from the absence of cross-bracing to create clear walkways."

"The design also included 2 deck Layher console brackets to provide access and edge protection for the timber frame contractors – these were easily relocated as the work progressed."

SOUTHAMPTON

Layher passes the test

The speed of erection and lightweight design of Allround® scaffolding has played a key role in the recent development work undertaken at The Rose Bowl in Southampton.

Installed by D & R Scaffolding for McAleer and Rushe Ltd., the Layher system enabled the scaffold to follow the radius of two new stand designs and was installed rapidly to meet immovable completion times for forthcoming international matches.



New bridge powers forward

The Electricity Alliance East – a partnership between the National Grid and Balfour Beatty – is the first organisation in this country to enjoy the benefits of the new Layher Allround® Bridging System with the installation of temporary pedestrian access adjacent to Drax power station during maintenance work.

Saving installation time by an estimated 83% compared to conventional alternatives, the

bridge was installed by Dixon Scaffolding and located above a 'live' road used by heavy goods vehicles, and featured an 18.5 metre single span.

"We were given permission to close the road for six hours overnight but needed only four," Lee Dixon, MD of Dixon Scaffolding, says, who compares it to a 'traditional' tube and fittings alternative which could have required closure for some 24 hours.

The Allround® Bridging System connected the Drax site to a temporary car park as the Electricity Alliance work required an existing car park for both access and plant storage.

Using the same 'rosette' connection system as Allround® scaffolding, the full span was assembled at ground level and then craned into position onto support towers built using the Layher Stairtower system.



New Bridging System on show

The new Layher Allround® Bridging System has helped bring enthusiasts to the site of one of the major shows of its kind in the north of England.

The 58th Pickering Traction Engine Rally has benefited from the installation of the bridging system installed to connect parking facilities with the main showground area. Two towers were erected either side of a roadway, which, previously, could only be crossed on foot, with a 12 metre bridge section then installed. Assembled alongside, the installation of the 12 metre span some 6 metres above the roadway was completed within the one hour shut down period available for the work.

With a vast selection of show items from steam engines and locomotives to ploughing engines and steam wagons as well as vintage



cars and motorcycles – this well-established and highly regarded event is perhaps more accessible now than ever before.



Rigorous control means total confidence on site

Layher's leading European and international reputation is firmly based on quality – both in terms of system design and manufacturing procedures.

Central to this is a commitment to quality that runs from raw material selection to manufacturing techniques – all of which can be verified, demonstrated and detailed in published data. Our modular wedge head

design, by way of example, is subjected to no less than 80 individual measurements whilst overall, one in 300 manufactured items that roll off the production line in Germany is tested to destruction.

Importantly, our quality and testing procedures are also central to assessing non-original Layher designs. Running the same material tests as those to which our own manufactured

products are subjected – the contrasting results of which can often speak for themselves – underpins our view that genuine Layher products should not be mixed with similar products from other sources.

In all cases, every user of Layher equipment can thus be confident that it will meet predefined performance criteria and will play a central role in maximising site safety and performance.

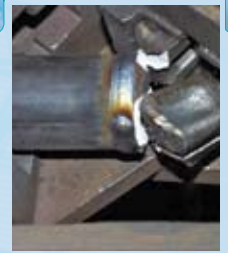
Raw material thickness



Specific tests of tensile strength, hardness and weld quality



Product specific tests – from bending moment to drop tests, plus regular intensive failure tests



Comprehensive dimensional measurement



Continuous commitment to quality

Highly automated manufacturing processes



Detailed product marking enhances traceability



Load bearing assessment



Comprehensive published test data



Compliance with appropriate approvals



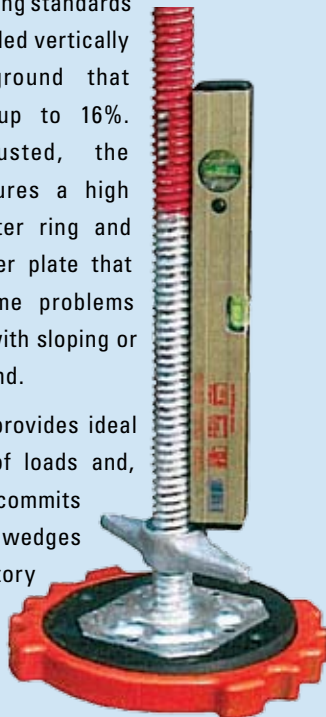
Adjustable Plate for Base Jack

Simply on the level!

Sometimes the simplest design can offer the most significant benefits.

The new Layher 'Adjustable Plate for Base Jack' – which is now being **prototyped** – is a straightforward way of ensuring standards can be installed vertically even on ground that slopes by up to 16%. Easily adjusted, the design features a high visibility outer ring and a tilting inner plate that can overcome problems associated with sloping or uneven ground.

The design provides ideal dissipation of loads and, quite simply, commits sawn timber wedges to the history books.



Allround® Bridging System



Reaching new bridging standards

Whether used as a footbridge or as a support girder for heavy loads, the Layher Allround® Bridging System can be rapidly constructed in-situ or pre-assembled at ground level for craning into position.

Using the Allround® wedge-head connection system, a choice of bay sizes is available to achieve spans of up to 30 m with high strength a key feature – only a 5 cm deflection, for example, is noted over a 24 m span.

Additional options, which include steel or event decking, Layher Protect panels, childproof guard rails and temporary roof sections, all maximise versatility, whilst the design can also be used as a clear support girder over obstructions for scaffolding, or, as shown above, as a heavy-duty spinebeam support.

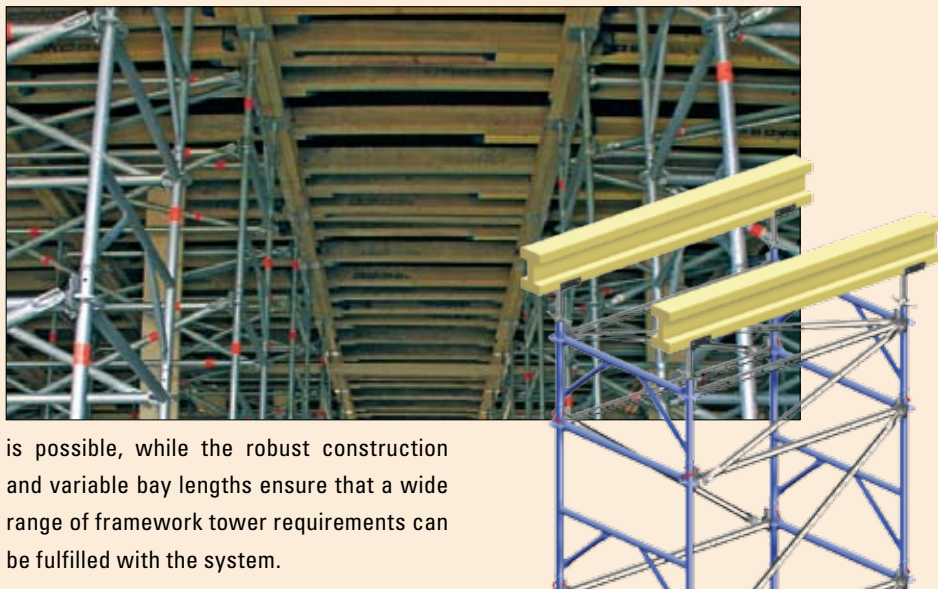
Allround® Falsework Tower TG60

Allround® Falsework Tower...your choice

Support for heavy loads at heights between 3 and 20 metres, the Layher Allround® Falsework Tower TG60 system is simple in operation and offers key user benefits.

Comprising just a small number of highly versatile components, a wide choice of installation configurations can be achieved. Structures can be designed rapidly as individual towers, with several frame planes or in a bundled formation for load concentration. Moreover, the simple addition of castors enables the structure to be relocated without the need to dismantle and rebuild each time.

One of the latest additions to the Layher range, both horizontal and vertical assembly



is possible, while the robust construction and variable bay lengths ensure that a wide range of framework tower requirements can be fulfilled with the system.

Split Bay Coupler

Bridging the gap

The new Layher SB (Split Bay) Coupler is the ideal way of closing gaps between adjacent decking areas.

U-transoms are fitted to the purpose-designed coupler with steel decks then located into position.

Simple, effective and further evidence of Layher's commitment to innovation.



Lightweight Cassette Roof

Latest roof design on the up

The Layher 'Lightweight Cassette Roof' system is already representing a major step forward in temporary roof construction.

The system features a roof covering of aluminium/PVC cassettes that can be located on non-system, aluminium lattice beams to provide excellent temporary cover in a wide range of application environments. It can be erected by hand where crane facilities are not available – significant in city centre locations – and can be used with a vast range of scaffold designs and systems.

The Lightweight Cassette Roof design allows it to integrate perfectly on all sites and with the use of the translucent cassettes, permits access for natural light.



Allround® STAR Frame



Scaffold simplicity means high quality

Offering key benefits of both the Layher Allround® and Speedyscaf systems, the Allround® 'STAR Frame' comprises just two components that interface directly with the Allround® rosette design. Rapid assembly and relocation are thus major benefits whilst overall weight savings of some 42% against comparable Allround® components – already well known for their lightweight characteristics – can also be enjoyed.

Guard rails connect to rectangular frames without the requirement for tools and are securely locked with a high visibility closing bracket to provide an 'at a glance' safety check. Any standard Layher deck can be used to complete a system, which brings safety, speed, versatility and cost efficiency into a single, simple design.

Training boost for customers in Scotland

Customers in Scotland are soon to gain from planned developments to the Layher training scheme.

Early 2011 will see an extended range of training courses in a purpose-designed facility being made available by training specialists Simian Skill.

For more information, just call our depot in Livingston on 01506 440220.

Pride in our latest achievement



Layher is delighted to announce the achievement of a major BSI Accreditation that endorses the quality of service provided for customers.

The UK operation has now been awarded ISO 9001:2008 Quality Management System certification that recognises key aspects of the Layher service and training capabilities.

"The accreditation procedure takes comprehensive account of our sales, technical support, stockholding and distribution methods with particular reference to system scaffolding, stages, grandstands, temporary roof systems and stairtowers," comments UK MD Sean Pike. "It also acknowledges our commitment to using material from quality assured sources whilst recognising our provision of system scaffolding training schemes."

A significant step forward for the company, the achievement goes hand-in-hand with equivalent accreditation held by Layher's Headquarters in Germany where manufacturing and quality control procedures have obtained corresponding recognition.

"We are extremely proud of the achievement and we believe the benefits it defines will be widely recognised by our customers throughout the country," concludes Sean Pike.



On stage at the Showman Show 2010 – Acorn Event Solutions made extensive use of Layher Event Systems during the exhibition and took second place in the 'Exhibition Stand of 30 Metres Frontage and Above' award category.

Looking proud of the success are (left to right) Keith Hancock – GEDA UK, Matt Sherwin – Layher, Caroline Clift – Editor, Stand Out magazine, Andrew Nutter – MD, Acorn Event Solutions, Rebecca Nutter – Director, Acorn Event Solutions, Glyn Brooks – Canopia, Claire Fletcher – Acorn Events Manager, Steve Wood – Mitsubishi Electric Europe Diamond Vision.

The Layher Choice

- **ALLROUND® SCAFFOLDING**
Maximised installation versatility centred on Layher's acclaimed 'rosette' design.
- **EVENT SYSTEM**
Dedicated equipment designed to be expandable and adaptable – meeting a vast number of concert and sporting event staging, stand and platform requirements.
- **PROTECTIVE SYSTEMS**
From 'Protect' containment panels to a choice of temporary roofing systems – all designed to help maximise efficiency and improve the building environment.

- **SPEEDYSCAF®**
Simple, manual erection using just five basic components to create a strong, stable access system.
- **FALSEWORK**
With a few additional components, Allround® can easily be converted into a falsework system offering back-propping, crash-deck and load support solutions.
- **ROLLING TOWERS**
Fast to erect, easy to reposition, safe and with a choice of decking sizes – the optimum answer to mobile access.

- **LADDERS AND STAIRTOWERS**
Direct stairtower connection to scaffold design provides safe, durable access for multiple personnel use at any height – together with a choice of ladder designs that all offer durability, stiffness, safety and stability.
- **ACCESSORIES**
From steel or aluminium unit beams, scaffold tubes, couplers and castors to hoists, nets, wall anchors and hardware, the choice of optional accessories from Layher is innovative and extensive – to maximise the success and effectiveness of every installation.

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Layher®

More Possibilities. The Scaffolding System.