



Building the future on innovation

Innovation – a key factor that has contributed to the success in the scaffolding and access industry which we have enjoyed at Layher for more than 60 years. Developing new opportunities for our scaffold and temporary roof system users to make the most of their investment is, we believe, fundamental.

This issue of Update Layher highlights a number of additions which have now been brought to the market. The new rolling temporary roof bearing, which offers distinct operational benefits on site, and the new Layher Event Truss which, we believe, will be welcomed by everyone in the sector, are prime examples. Both are the result of intensive design, development and testing procedures at our manufacturing plant as is the new STAR Frame – also featured in this issue – which enhances the benefits of Allround® scaffolding with a new ‘easy to fit’, highly versatile option (see photo top right).

Yet, it is not only on the computer and in the factory that product design takes shape. By working closely with scaffolding contractors, we can produce highly innovative solutions on site. A prime example of this has been seen on the banks of the River Thames at Battersea where, working with TRAD Scaffolding Co. Ltd., we have developed a hoist system that is bringing distinct advantages to the building work being undertaken by Weston Homes plc (see photo bottom right). Further details on this particular step forward are also highlighted inside.



An ongoing commitment to moving product design and application possibilities forward has underpinned our growth in recent years and is acknowledged by users of Layher systems worldwide. It is an approach that has served us and our customers well in the past...and will continue to do so in the future.



See inside for the full story from Battersea...

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Download videos from our website...



More Possibilities The Scaffolding System



Safety in scaffolding construction

Innovation on the banks of the Thames

Allround® scaffolding system versatility is clearly demonstrated at 'Bridges Wharf' in Battersea where Weston Homes Plc is creating a combination of residential units, commercial premises and a five star 'von Essen' hotel. Importantly, the Layher design has also allowed three highly innovative hoist towers to be installed.

Three individually shaped buildings, featuring a number of radiuses, are key features at the site. Close work with TRAD Scaffolding Co. Ltd. has provided multiple lift access as well as the independent materials/personnel hoists. Using Layher Allround®, these 'Common Hoist Towers' have been built directly from the scaffolding avoiding the requirement to tie-in to the building.

"Providing optimum access for both cladding and rendering work at every level, a key objective of the scaffolding, has been greatly aided by the clear walkways with the Allround® design," comments UK Managing Director, Sean Pike.

"The use of the Layher system has enabled us to meet the tight programme for the erection of



the scaffold," points out Neil Garner, Divisional Director of TRAD Scaffolding. "Each hoist is designed to a height of 50 metres and features a central cluster of six Allround® standards, allowing a different combination of hoists and cars to be used with each tower." The hoists themselves were supplied by Alimac via hire company GB Access.

Bespoke couplers, also developed jointly by Layher and TRAD Scaffolding, tie the hoists directly to

the Layher tower with further specialist couplers transferring the loads through the tower and into the scaffold structure.

This major development in the area is set to become a significant feature in Battersea when completed. "The installation is not only highly effective in meeting multi-lift access needs on site, but we believe it also demonstrates the versatility of the Allround® system and the ingenuity of all concerned," concludes Sean Pike.

Allround® meets need for speed at 'The Bridge'

Timber frame and block construction of residential units built by Taylor Wimpey in Dartford is gaining from Layher Allround® scaffolding. Fastfix Scaffolding of Horley, Surrey have been contracted for the work at 'The Bridge' site and Managing Director Danny Hall highlights key advantages of Allround® in terms of layout and erection speed.

"A typical four storey block can proceed from scaffold installation to a dry structure in two weeks, so speed is vital," he says. "We believe Allround® is some three times faster to erect than conventional tube and fitting and, importantly, it can also be readily adapted on site." Layher staintowers and material platforms are also used to provide full access to up to ten lifts. "Narrow gaps between blocks are easily addressed while clear walkways

are a major benefit during preformed section installation," adds Danny Hall. Co-operation between Layher and Fastfix has also produced a special timber frame extension bracket – removed after use to allow the brickwork to be inserted.

"The advantages offered to the various trades on site by both the speed and design of the Layher system are significant and overall its use has proven to be even more beneficial than we originally thought," adds Paul Worrell, Production Manager for Taylor Wimpey at 'The Bridge'.



Taking care in the city

The City of London has gained from the Layher Protect system during demolition of the NM Rothschild building ahead of the creation of a new 15 storey office block under construction manager Bovis Lend Lease.

Lyndon Scaffolding have used the system to minimise the inevitable dust and noise arising from the work undertaken by McGee Demolition who removed the existing eight storey building and concrete basement slab. The Protect design – steel panels fixed to a lightweight aluminium frame – also benefited from internal sound deadening material on the inside face.

“The installation was dismantled after the completion of the demolition work and then simply re-erected on scaffold frameworks to screen off the site for the new build operations,” said Lyndon Scaffolding Area Manager,



Mike Langton. “We believe it has much to offer at locations such as this – surrounded by banking institutions and commercial offices – where the disruption from such work needs to be at an absolute minimum.”

Keeping up with the world's tallest



Claimed to be the world's tallest modern timber residential building, the construction of 28 metre high Murray Grove for Telford Homes Plc, has gained from Layher's Allround® system installed by Connect Scaffolding.

The structure's pre-fabricated design meant building work moved ahead very quickly, requiring the scaffold system to keep pace. “We utilised Layher's Allround® for the external façade with the scaffold access staying approximately one storey ahead of the construction work,” comments Oliver Cave, Connect Scaffolding Director. “The nine week project has seen one floor completed every seven days which would have been difficult with a conventional tube and fitting scaffolding.”

The wide bay Allround® design also helped with the offloading of the cross-laminated timber panels, from Austrian manufacturer KLH, whilst the precise fixing positions of the Allround® system helped to create an extremely tidy site in this busy north London location.



Layher Protect System...at sea!

Significant protection during repair work – particularly from high wind conditions – has been achieved offshore through the use of the Layher Protect system. The innovative installation, on the Shell Leman Echo Platform, has seen BIS Salamis Ltd. provide a highly effective solution to specific operational requirements.

The work scope centred on composite and paint repairs to a 36-metre vent stack on the platform. Significant cost gains have arisen from the ability of the Protect installation to allow rope access and grit blasting operations to be undertaken at the same time as other major scopes of work – this was particularly important as, due to the small size of the platform, conflicting activities were required to be segregated or avoided. The solution allowed the work to be undertaken without impacting on other planned activities on the platform, therefore allowing the most effective use to be made of available resources.

The lower 22 metres of the vent stack benefited from the Layher installation with

lighting and ventilation installed to allow ‘around-the-clock’ working by the rope access teams. By ensuring the work could proceed efficiently, the risk of expensive weather downtime was avoided, and the use of available bed space while an accommodation barge was alongside, maximised.

“BIS Salamis Ltd.’s strong relationship with Layher in the UK allowed us to offer an innovative solution on such a large scale to one of our key clients and only with Layher support were we able to take this project from concept to reality in the limited time available,” comments Mick Chisholm, BIS Salamis Operations Manager.

“BIS Salamis are committed to offering



innovative solutions to its clients and we are grateful to Layher for its support in helping us achieve this,” he concludes.

Layher Keder roof – passing the university exam

An excellent site environment while allowing the building to continue operation has been achieved by a Layher temporary roof facility at the University of Bath.

Allround® scaffolding, positioned around three sides of the accounts and administration block, has supported a Keder apex roof system covering the flat roof area during refurbishment – part of the ongoing maintenance programme conducted by the University.

“We needed to provide a well lit working area with high quality protection against the elements, both for the workforce and the University staff who have continued to work within the building,” says Richard Clarke of scaffolding contractors, Clarke Brothers.

“The Allround® scaffold structure was erected along three open sides with the Keder frame work and sheeting fixed above. A large

metal chimney structure, with an arrangement of steel ties was also accommodated,” he says.

Allround® was also used to create a scaffold tunnel to span a busy roadway that runs along the fourth side of the building.

Richard Clarke points out that the installation was completed in less than 2 weeks – markedly more quickly than would have been achievable with traditional tube and fitting alternatives.

“The key benefit of the system from our point of view was that the clear span nature of the supporting system to the over-roof meant that a safe working environment was provided without the need for intermediate support from the structure beneath,” comments Jon Down, Project Surveyor at King Sturge Building Consultancy who have overseen the project on behalf of the Estates Department at the University.



Layher Allround® scaffolding takes off at Heathrow hotel



Unconventional hotel construction near Heathrow Airport has been significantly enhanced by the use of a scaffold system from Layher Ltd. which has been able to keep pace with the rapid build programme. The project, which is seeing the building of the 307 room Heathrow Travelodge, is centred on the use of sea containers which, it is claimed, represents an economical and environmentally sound method of construction.

Mel Archer, Managing Director at Archway Services PLC, who have installed the Layher Allround® system, explains –

“The containers are used to create a ‘skeleton’ of the hotel structure which, importantly, can be recycled when the building reaches the end of its natural life or requires demolition,” he says. “However, this means that the building has risen in much less than half the time required to build a conventionally constructed hotel which pointed us in the direction of the Layher Allround® modular system. This can be installed significantly more quickly than conventional tube and fitting and could therefore keep pace with the structure as it was assembled.”

The Layher Allround® modular scaffolding system comprises just eight standard components which are fixed and secured to the system’s Allround® connector. In turn, this features a rosette welded onto the upright which can safely and securely accommodate eight individual connections at varying levels and varying angles.

“With construction methods that call for an economic and efficient approach, we believe that the use of our system by Archway Services PLC is very logical,” adds Layher’s UK Managing Director, Sean Pike. “This is a highly innovative and impressive project and one to which we have been delighted to be able to contribute.”

Award winner on show!

Acorn Event Solutions, in conjunction with Coopers Marquees, has won the prestigious first prize for its exhibition stand at the recent Showman Show in Newbury – with a little help from the Layher system design.

A major stage structure measuring some 20 metres wide with a depth of 15 metres and height of 14 metres was erected using Layher equipment. The scaffold structure was then encased on three sides and the roof, using the Keder protection system, whilst the new Layher Truss unit was also used to provide lighting gantries above the stage area. Joint-exhibitors Coopers Marquees also benefited from an elevated scaffold marquee base which was built additionally by Acorn alongside the main stand.

“Our presence at the show centred on the stage facility alongside a series of ramps and staircases which detailed our overall ability in this sector,” comments Andy Nutter, Managing Director at Acorn Event Solutions – part of the Acorn Group. “The use of the Layher system results in simplicity of construction to provide a clear stage area for a vast range of concerts, events and promotions.

“We are extremely delighted with the award presented jointly to ourselves and Coopers Marquees, and very proud to have been recognised at this important exhibition for the work that we do in the event and staging market,” concludes Andy Nutter – seen centre, below, with Johnny Cooper, MD, Coopers Marquees (left) and Show Manager/Organiser, Jeremy Lance (right).



Simple, quick, effective: our new 'star' is born

We are delighted to announce a major enhancement of our highly successful Allround® modular scaffolding system. Now available in the UK, the new 'STAR Frame' comprises just two additional components which interface directly with the Allround® design. This results in both rapid assembly and relocation benefits which to date have most notably been associated with the Layher 'Speedyscaf' system.

"The two new component elements – pre-formed rectangular frames and separate guard rails – feature our highly versatile



rosette connector design," says UK Managing Director, Sean Pike. "However, because these are pre-formed, erection and dismantling speeds are significantly enhanced whilst overall, a weight saving of some 42% against comparable Allround® components – which are already well known for their lightweight characteristics – can be realised."

The simplicity of the guard rail connection, which comprises a hook system that can be assembled without tools and then securely locked with a high visibility closing bracket, is a key factor. This means that correct locking can be established 'at a glance' although the design means that, even when the bracket is not closed, guard rails are secured against accidental removal.

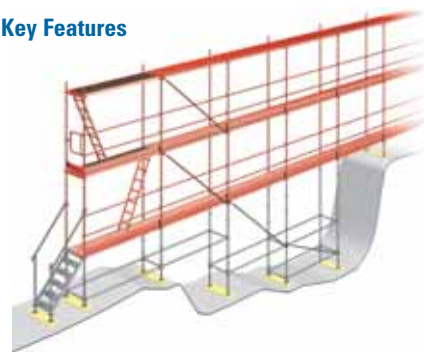
Importantly, any standard Layher deck can be used with the new system although there is no requirement for every lift to be fully decked – reducing the equipment costs as a direct result.

"We believe this is a revolutionary design which will be recognised by everybody that benefits from our scaffold systems," adds Sean Pike. "Thanks to the rosette

connector design, it further extends what we believe to be a highly versatile system.

"Because the STAR Frame concept links directly to the Allround® product, users can benefit from the full range of installation capability of the established system," he concludes. "This brings together the multiple benefits of speed, simplicity, versatility and cost efficiency into a single, simple design."

Key Features



- Only two additional main components required
- 42% weight saving
- Fast assembly
- Compatible with Layher Allround® components, protection systems and accessories
- Cost effective system design
- System flexibility meets a vast range of installation requirements
- Revolutionary guard rail fixture and closing bracket design – requires no tools
- High visibility locking check
- Simple storage and location

Training – central to everyone's success

Ensuring all scaffolders using our equipment are correctly qualified is a key factor behind our position as a leading supplier of system scaffolding.

Our CISRS approved training centre at Letchworth offers general and product courses – many with independent training specialists such as Acorn Training and Simian Skill.

"The two day CISRS Layher Allround® course sees successful delegates receiving a Completion Certificate allowing them to apply for their current CISRS card to be endorsed

with this Layher training qualification," comments Layher UK MD, Sean Pike.



"Apart from a clear legal requirement under the Work at Height Regulations, a fully trained workforce has been proven to increase quality, technical and safety standards for scaffold structures with increased productivity

also reported," comments Simian Skill MD, Simon Hughes.

"The two day SSPTS courses are best explained as a 'conversion course' for tube and fitting scaffolders," he adds.



A major boost to the Layher event system range has been announced with the introduction of a new truss system.

The development represents distinct advantages to everyone involved in the event sector and, because it offers high load capacities and a fast rigging design, will open up new application opportunities. Constructed around a four cord configuration, a choice of dimensions and loading capabilities is available with only a few additional components then required – corner pieces, connecting units and base plates.

The new Layher Event Truss is designed with a choice of installation needs in mind. It is therefore fully compatible with both system and tube and fit scaffolds making it ideal for a range of application environments – from exhibition stands and display units to concert stages and presentation areas.

New truss takes centre stage

“A choice of truss dimensions is available in lengths between ½ metre and 5 metres which can be assembled to provide point loads up to 2078 kg and uniform loads up to 610 kg/m,” points out Layher UK’s Managing Director, Sean Pike, “whilst two and three way corner pieces and the connector add a degree of flexibility which will be recognised by everybody in the industry.”



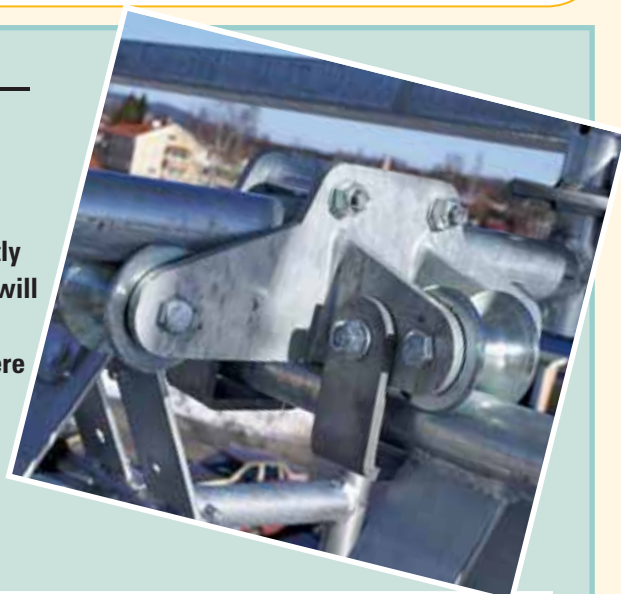
New rolling roof bearing – more room for manoeuvre

The versatility of the Layher temporary roofing system is being significantly enhanced with a new rolling multi-directional bearing. The development will not only allow temporary roofing sections to be moved more easily but its design also negates any potential problems which could arise where support scaffolds cannot be erected in perfect parallel.

“Difficulties can arise in erecting all temporary roof bays in parallel over a long distance,” explains Layher UK’s Managing Director, Sean Pike. “The new rollers provide a limited compensation in a transversal direction making temporary roof movements simple in a wider range of applications. The ability to reposition temporary roof sections offers distinct benefits because it can negate the need to cover the work area fully – protection is simply moved as the work proceeds. It also offers opportunities to open sections quickly

to allow access for craned materials.”

The new rolling unit has already provided Shell U.K. with significant operational and economic benefits to one of its sites and is now set to offer these advantages to a wider range of the construction and refurbishment industry than ever before.



New plant signals ongoing commitment in 2009



The Layher commitment to product development and business growth is now being demonstrated by the announcement of a new manufacturing plant. Work has begun on the third phase of development at our manufacturing base near Stuttgart in southern Germany.

"The new plant will be dedicated to the production of aluminium and wooden components," comments UK MD, Sean Pike, "and is located close to our main premises in Eibensbach, where the manufacture of the company's steel scaffolding takes place. It is due to begin manufacturing in September 2009 – less than 12 months after the ground was broken."

The move reflects a commitment to providing a 'just in time' facility to customers – essential, we believe, in scaffold construction – and the flexibility that this calls for will now be enhanced by the new facility which will comprise four warehouses, three production buildings and office space.

"The news builds on the anticipated completion of a further phase of development, already well under way, which will see a new, highly modern hot dip galvanising facility begin operation in Spring 2009," continues Sean Pike.

"This is an important investment which will enable us to maintain our commitment to product quality and consistency. At a time when so much of the construction industry is taking a less than optimistic view of the immediate future, we believe that this is evidence of our belief in continued growth," he concludes.

On the move in Scotland



Our ongoing commitment to the Scottish market has been fully demonstrated with the opening of a brand new depot in Livingston.

The 12,000 sq.m. site is close to our former premises but now boasts far

greater space and excellent access which reflect developing business opportunities in the country.

"We are paying particular attention to stockholding capability to ensure that ordering and delivery times are minimised, while the greater space available will enable us to house a wider range of products and components than before," comments

Layher's Regional Manager, Ian Wilson (pictured). "We believe this is an important development and one which provides greater direct access in a marketplace which has not only demonstrated recent growth, but which we are confident is set to develop significantly further in the future."

The Layher Choice

- ALLROUND® SCAFFOLDING**
Maximised installation versatility centred on Layher's acclaimed 'rosette' design.
- PROTECTIVE SYSTEMS**
From 'Protect' containment panels to a choice of temporary roofing systems – all designed to help maximise efficiency and improve the building environment.
- ROLLING TOWERS**
Fast to erect, easy to reposition, safe and with a choice of decking sizes – the optimum answer to mobile access.
- 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.
- EVENT SYSTEM**
Dedicated equipment designed to be expandable and adaptable – meeting a vast number of concert and sporting event staging, stand and platform requirements.
- 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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More Possibilities. The Scaffolding System.