DECEMBER 2021



CHRISTMAS CHEER -FOR NOW AND THE FUTURE

The positive outlook towards the future which we are seeing in so many areas – from orders to creativity – calls for an effective bridge between the difficulties of the last two years and the opportunities to come. And, at Layher, this is a key part of our offer and commitment to customers as we celebrate this Christmas and New Year.

"From a focus on innovation to a commitment to creating 'strategic partnerships' with our contracting customers in order to work with them most effectively, the long-standing basis of our success is even more important now than ever," says Sean Pike, UK MD.

This issue of Update Layher takes a special look back at why system scaffolding, access and weather protection equipment has come to play such a key role in the industry. *"The benefits have always been clear cut in the past and, today, underpin our firm optimism for the future,"* adds Sean Pike.

"It is on this basis that we are delighted to wish all of our customers – past, present and future – a happy Christmas and a prosperous New Year."

IN THIS ISSUE

Page 2

Onwards and upwards - Layher: the past, present and future of system scaffolding

Page 8

Layher's innovative Allround Guardrail Façade System - applauded and rewarded by the NASC

Page 10

Never just a support act - continuing to perform starring roles in the field, and now on the red carpet!



More Possibilities. The Scaffolding System.

THE RISE AND RISE OF LAYHER SYSTEM SCAFFOLDING

The dramatic growth in the UK and worldwide in the use of Layher system scaffolding over the last 20 years owes itself to clear cut factors.

Each brings key advantages to scaffolding contractors – and, in turn, principal contractors and their customers – and all contribute to the creation of more and more opportunities and possibilities.

Underpinned by Layher's support services, from design and delivery to training and local access, it is a recipe which continues to create belief and optimism for the future.



The vast range of options offered by the Layher rosette connection system means structures from façades, birdcages and suspended scaffolds to bridges, radius structures and stair systems can be readily achieved.

Whether the requirement is for a scaffold, access or weather and sound protection, virtually any need can be met. And that means construction, rail, events, offshore maintenance, industrial access and many more sectors – and from single buildings to globally recognised structures – can all gain from enhanced project operation.

The rosette system means safe connection is designed into every Layher structure. That means easier and, therefore, safer handling and a dramatic reduction in the number of components required. With rigorous testing procedures during manufacture, the use of genuine Layher equipment keeps safety at the top of the site agenda every time. At Layher, we don't stand still. Our success has always been based on bringing new designs to the market - each of which has been developed either to enhance installation possibilities or to answer specific questions asked by our customers.

The result is a range of equipment and design opportunities that help to ensure every contractor can deliver the optimum access solution to their customer. The vast range of component sizes, types and configurations means our customers' ability to develop creative project solutions is continually evolving.

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Linked to our own input in the field – such as the Layher LayPLAN design tool and Scaffolding Information Modelling (SIM) software – we work together to ensure practical and effective solutions, via thinking that is often 'outside the box', are realised. Because Layher's systems incorporate key features such as built-in connection facilities and because our designs require markedly fewer components compared with 'traditional' scaffold methods, installation times can be dramatically cut. That means project savings which create opportunities for greater competitiveness and, ultimately, profitability.

With wide bay designs, which require minimum cross-bracing, and a vast choice of components, speed combines with simplicity to bring benefits to site every time.



We believe that the efficient use of scaffolding, access and weather protection systems isn't solely dependent on Layher equipment. The range of support services and a clear belief in the principle that we are a team with our contracting customers all contribute to making sure every use of Layher equipment is as efficient as possible.

In our view, that's the best way of making sure all the advantages of Layher system scaffolding are enjoyed - to the benefit of all concerned.

ACCESS INNOVATION OF WHICH TO BE PROUD...

Project: Forth Road Bridge, Edinburgh – under-deck access for gantry maintenance work

Scaffolding Contractor: I-Scaff Access Solutions Ltd.

Main Contractor: Millar Callaghan Engineering Services Ltd. for BEAR Scotland/Transport Scotland

Application:

- Layher FlexBeam and steel decks
- Focus on sixth phase 120 metre length across 36 metre width
- 80 square metres installed per day
- Minimal walkway obstructions
- Standards linked in clusters, clamped to and suspended from bridge steelwork for connection to FlexBeam components onto which Allround Lightweight steel decks were connected
- Scaffolding Information Modelling software created visual in VR format

Project: Hinkley Point C, Somerset

Scaffolding Contractor: KAEFER Limited

Application:

• Access for specialist coating services during the construction of Nuclear Island inner containment liners

- Six circular liners each measuring 48.2 metres in diameter
- with a 17 metre height
- Scaffolding provided external and internal access to faces as well as to both vertical and horizontal welds
- Series of circular protrusions 50 mm to 2.7 metre diameter from external wall accommodated by scaffolding
- Rosette design offered multiple connections ideal for the circular nature of the installations
- Scaffolding Information Modelling software interfaced directly with Building Information Modelling technology

Project: Lindisfarne Castle, North East England

Scaffolding Contractor: John Laidlaw and Sons Ltd.

Main Contractor: Datim Building Contractors for The National Trust

Application:

- Access for stonework, windows and roofing conservation
- Scaffolding had to accommodate terrain and location three miles from mainland including steep south-facing cliff-face against the North Sea
- No tying to cliff-face addressed by buttresses and kentledge
- Base built up to 24 metre height from which access lifts erected
- Scaffold installed further back on opposite side so gradual slope could be accommodated
- No crane possible lightweight components handled manually

Project: Elizabeth Tower (Big Ben), London

Scaffolding Contractor: PHD Modular Access Services Ltd. (Heritage Division)

Main Contractor: Sir Robert McAlpine Special Projects Ltd.

Application:

- 98 metre-high scaffold access for restoration works
- 23,500 Layher Allround components used
- 47 working lifts and temporary roof structure
- Allround scaffolding, HD aluminium beams, public stair access,
 Lightweight cassette roof and
 Protect panels all key elements
- Access to four clock faces provided
- Compression ties used to avoid tying to the fabric of the building
- Only one of four faces could be scaffolded to ground level

... PROVING THE BENEFITS OF LAYHER SYSTEM SCAFFOLDING

Project: Findhorn Bridge, Scottish Highlands - access for bridge maintenance work and inspection

Scaffolding Contractor: I-Scaff Access Solutions Ltd.

Main Contractor: VolkerLaser Ltd. for BEAR Scotland/Transport **Scotland's NW Trunk Roads**

Application:

- Allround Lightweight minimised ground loading - important with soft ground conditions and steep slopes
- Scaffolding installed to full height of three support piers with cantilevered decks at the top of each, Layher staircase access and eight-bay gantry
- Minimum material requirement compared with tube and fitting
- Beneficial impact on build time, material volumes and wind loading
- LayPLAN Scaffolding Information Modelling software demonstrated access solution prior to installation





Scaffolding Contractor: Ainscaff Scaffolding

Main Contractor: Clancy Construction

Application:

- Allround scaffolding and Keder XL lightweight roof system utilised
- Installation accommodated tight access spaces while tying-in restrictions were addressed by innovative scaffold and beam support structure
- Light weight required markedly fewer components compared with tube and fitting alternative
- A total roof span of 18 metres was achieved
- Bay-by-bay roof installation required only one crane on site
- Cross-bracing on only the top lift and fireproof decking throughout helped movement of workforce and materials
- 4.5 km of ledgers, 1.8 km of beams and 3.4 km of standards deployed in the first phase of the project

- Main Contractor: **Centregreat Rail for Network Rail** • Layher temporary public footbridge installed to provide passenger access between platforms • Light weight, ease of handling and key operational and safety benefits • Bridge installed to a greater than normal height because of location - eight metres above the rails • Two Layher stair systems connected by 16 metre bridge span • Non-slip GRP surfaces, temporary lighting and Layher Protect screening panels - all key features overnight possession Project: Virgin Money Utility Arena, Newcastle - a series of individual platform 'boxes' for public audience at music event Scaffolding Contractor: Overlay Events Promoter/Stage Installer: SSD Concerts Ltd./ES Global Ltd. • 2500 people in audience utilised 300 individual viewing platforms • Each platform measuring 2072 mm x 2072 mm and accommodated up to five seated concert-goers Innovative solution helped meet social distancing restrictions



Project: Abergavenny Station, Wales - maintaining passenger access during station refurbishment

Scaffolding Contractor: **Atlantic Scaffold**

- Design seen as an excellent example of lateral thinking -
- helping to restore a slice of normality during the pandemic

INNOVATION EXCELLENCE - AND DON'T JUST TAKE OUR WORD FOR IT

The design and performance of the Layher Allround AGS Facade System is focused on its ability to provide safe, simplified and enhanced facade scaffold installations via an advancing post and guardrail design which is completely independent but can also interface directly with other well-established Layher equipment. The result is greater safety, speed and versatility - all of which contributed to winning the NASC Product Innovation of the Year Award 2021.

"Comprising two-metre standards, with integrated Layher rosette connectors at one metre height to which two single guardrails are pre-attached, the assembly is then elevated by hand from the secure lower level, meaning the preceding guardrails are already in place on the next lift," says Sean Pike, Layher's UK MD. They are fixed in place via innovative quick-release levers which are coloured red to allow a rapid visual check of an entire structure to be made from ground level.

The AGS System's lightweight materials aid the manual handling process, with dimensions that help to optimise transportation and storage. Once installed, extensions can be readily added, regardless of the existing structure's layout.

AGS - Key benefits at a glance

 Standards provide the same loading capacity as their Allround stablemates.

- Guardrail lengths of between 1.57 metres and 3.07 metres are available.
- Installations can match the full range of Layher's common bay widths.
- Advancing side protection can also be incorporated.
- Structures can feature both external and internal protection throughout.
- Bracing components such as Allround ledgers or diagonals as well as U-shaped transoms can be fitted.
- System independence is enhanced enabling the user to react flexibly to site needs.
- Other Allround components such as hop-up brackets, stairs and loading bays can integrate seamlessly to become part of an Allround AGS Façade System installation.

Scan here to watch the Layher AGS video



ONCE AGAIN!

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For the second year running, Layher is proud and honoured to have been awarded the prestigious 'Innovation of the Year' accolade at the NASC Awards - this time for the acclaimed Allround AGS Facade System.

"The AGS design is unique in that it brings together several years' worth of advancing guardrail methodology, research and development together with trials of all that has been available on the market," says Sean Pike, Layher's UK MD. "This has then been integrated into the Layher Allround system to provide users with a product that is 33% lighter and 25% more economical to purchase with the required user flexibility, maximum safety and reliability."

Judges' Comments

We are grateful to have received generous praise from the NASC Award judges -

PROUD NASC WINNERS...

- "Layher's Allround AGS System is an expertly engineered product
- offering safety and efficiency advantages over conventional scaffolding.
- We were particularly impressed with the attention to detail, such as
- the highly visible red locking bars. Layher continue to innovate and
- are the deserved winner of the 2021 NASC Innovation of the Year."

Innovatio Award

2021

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LATEST EVENT INNOVATION ON SHOW IN SOUTHAMPTON

The range of installations where Layher event systems equipment has provided significant design and functional benefits is extensive and growing worldwide – with the latest design development playing a key role at the prestigious Southampton Boat Show.

"The event marks the first use of our ETF Stair System which featured at the heart of a stand created by Pro Productions Event & Stage Services for its customer BRIG Rigid Intelligent Boats," says Andrew Gee, Layher's Area Sales Manager. "The design fitted directly into a two-tier structure which featured a mezzanine facility that was a key element of the 600 sq. metre construction – itself the largest at the event for the third year running."

"We have used the Layher Event System extensively not only because of its simplicity and built-in safety, but also because we believe it to be the most adaptable on the market," says Will Bushell, Managing Director at Pro Productions.

"As with much of our scaffolding, access and specialist designs, the event equipment is centred on our acclaimed rosette fixing," adds Sean Pike, Layher UK MD, "so structures can be created from a common system. The highly impressive installation achieved by Will and his team in Southampton is an excellent example which reflects favourably on both the equipment and the installation skills alike."





FILM LAUNCH MAKES EXTENSIVE USE OF ALLROUND. LAYHER ALLROUND

The highly celebrated Royal Premiere of the new James Bond film at London's Royal Albert Hall marked one of the most exciting cinematic events in recent times – and was also a key focus for Layher Ltd.'s modular event system. The Allround system helped to create the central red-carpet facility at the event and to deliver major project objectives.

"We installed the Layher system to create a structure for panels that provided both masking and branding opportunities, together with an LED screen support structure and an extensive frame to support lighting equipment," says James Mason, Managing Director at IPS, who brought their specialist event structure skills to the project for client Limited Edition Event Design.

Limitations in terms of build time and road closures were important considerations that had to be accommodated, both of which gained from the speed with which the Layher system was erected. "*The efficiency of the installation enabled us to meet the client's specific layout and performance needs,*" continues James Mason, "even down to black powder coating on visible steel elements to optimise the structure's appearance."

Sean Pike, Layher's UK Managing Director, endorses the comments from IPS. "We are very happy to have been able to work with IPS on this prestigious project and that our modular event system has helped to deliver clear customer objectives," he says.

A MOUND . . . OF ALLROUND

Situated on the north-eastern edge of Hyde Park is an artificial, 22.5 m high hill with a difference – it has a substructure made from Layher Modular Scaffolding, erected by Overlay Events and PHD Modular Access.

The Layher Allround birdcage support scaffolding, which also included two Layher public stairways and a viewing platform nearly 40 sq. metres in size, was constructed in just 8 weeks. With Allround Scaffolding forming the skeleton, the artificial hill has a ground plan of 2168 sq. metres clad all over with a wooden structure.

Water-retaining boards, made from phenolic ply, were mounted on top of the structure, which was then covered with turf rolls and additional planting of trees, the roots of which are buried in large tubs directly below the visible surface on a layer of steel decks. Together, they convey the impression of a real hill. Overall, the completed Layher scaffolding material bears a load of 400 tonnes.

"The steps on the Layher staircases take visitors along a winding path up to the summit," says Garreth Hannon, Director of Overlay Events. "A separate lift was also installed on the inside of the structure to enable wheelchair access to the viewing platform, while a further internal Layher public stairtower allows visitors to descend safely into the heart of the Marble Arch Mound."

Internally, a suspended Allround FW System supports a 324 sq. metres exhibition hall that includes a light exhibition called 'Lightfield' by W1Curates and artist Anthony James.

"This is a highly innovative and dramatic structure and one which we are delighted has Layher at its heart," concludes Sean Pike, Layher UK MD.



RE-CLADDING PROJECT GAINS FROM LAYHER SCAFFOLDING

Clear, unobstructed walkways that are a feature of Layher scaffolding installations are creating key benefits in Portsmouth. Blencowe Scaffolding Ltd. has installed major, multi-level access for Lawtech Group Ltd. as part of an extensive re-cladding programme being undertaken at Collins Place in the city.

"The work focuses on four sides of a high-rise structure with simultaneous access of up to 12 lifts," says David Blencowe, Director of Blencowe Scaffolding. "It was vital that movement of both the workforce and materials was as simple as possible, which pointed us straight to the Layher system." Layher Allround scaffolding created access along all four sides of the building, including a radius glass wall.

"The contribution to project planning, particularly in terms of time frame, has gained significantly from this feature," adds David Blencowe.

Access to each level is achieved via three passenger and goods hoists with workforce movement between levels enhanced by the Layher ladder access system. Protection fans above walkways and debris netting have also been fixed to the scaffold on all faces.

"We are delighted to have been able to work with David and the team at Blencowe Scaffolding to ensure their customer's specific needs are met," says Clive Rowe, Layher's Area Sales Manager for the South-East and South-West. He points out that Lawtech Group has a leading reputation nationwide for façade refurbishment and renovation.

"The suitability of our Allround system for projects of this type is well proven and this is an excellent, high-profile example of the benefits it offers in practice," he concludes.



LAYHER & MATTISON OPTIMISE ACCESS FOR HIGH-RISE REFURBISHMENT

Understood to be the tallest building in Hackney at some 22 storeys, Seaton Point is now undergoing a major EWI rendering refurbishment programme – with the benefit of scaffolding from Layher. Installed by Mattison Scaffolding Ltd. for main contractor EQUANS, the residential block is remaining open throughout the works and, as Mattison Scaffolding Contract Manager John Moore explains, it is gaining from key features of Layher scaffolding design –

"The need to create clear walkways on all four faces of the building in order to optimise the movement of both workforce and materials has been fully met by the scaffolding system," he says. "We were able to erect the structure to the full 62 metre height on two faces to allow the work to commence then follow that through the remaining two sides. The speed and simplicity of this was significantly greater compared with an alternative tube and fitting scaffold, which would have taken longer, and has helped to accelerate the programme." He points out that the full scaffolding installation was completed in 16 weeks - two weeks ahead of schedule.

The Layher site stair measuring 2.57m x 2.07m, with wide 0.94m aluminium stair flights, has been

installed on the scaffold to provide full access to every level while a materials hoist has also been utilised. Access decks for additional ladder access also feature while two protective fans have been installed on opposite sides of the building above beams which themselves were installed above ground level access.

The project represents a major investment in Layher equipment by Mattison Scaffolding who approached Layher Hire and Sales specialist Rotamead Ltd. for the supply. *"We have worked with Mattison Scaffolding for many years and also have extensive experience of Layher equipment so the logic of recommending the scaffold for the project was clear cut,"* says Grant Norfolk, Rotamead's Sales Director.

Mattison have also capabilities to comp "This is an extreme credit on all concer Layher's UK MD.



Mattison have also recently upgraded their transport fleet with Hiab capabilities to complement their new Layher stock.

"This is an extremely impressive installation and one which reflects great credit on all concerned – Mattison Scaffolding and Rotamead," says Sean Pike,

LAYHER PASSES EXAMINATION FOR NEW STUDENT ACCOMMODATION

The benefits of Layher scaffolding systems - particularly in terms of installation efficiency and the creation of clear walkways - has been clearly demonstrated in Edinburgh. Hard Rock Scaffolding Ltd. have made extensive use of the Layher Allround Lightweight system to provide multi-level façade access for Graham Construction Ltd. - main contractors for new build student accommodation at Westfield Road in the city.

"The facility is designed to provide 396 rooms over seven floors, including ground level, and will be operated by Watkin Jones," says Robert Hutchison, Graham Construction Project Manager. "It comprises a series of façades, many of which include recesses, so the need for the scaffolding to follow this layout is paramount and is being fully met by the Layher equipment."

Layher's stair access systems are designed into the structure as are steel decks and toe boards throughout – significantly, accommodating the precise dimensions of the building and ensuring potential gaps are filled. Pedestrian walkways below two of the adjacent main roads have been created using a combination of protective fans constructed from the Layher deck system and Protect panels.

"Layher scaffolding requires only minimal cross-bracing to be installed so we have been able to include virtually clear walkways throughout," adds George Brown, Contracts Manager at Hard Rock Scaffolding. "This is of particular note where sizeable components, such as window frames, have to be brought onto the scaffold and then moved to the correct position for fixing."

"The benefits offered by our scaffolding systems are always in the spotlight with façade installations," adds Sean Pike, Layher's UK MD. "The installation at Westfield Road in Edinburgh is a prime example and we are delighted that the team at Hard Rock Scaffolding have been able to make full use of our Allround Lightweight system to meet clear access objectives on the project."

GRAHAM



LAYHER SCAFFOLDING VERSATILITY CHECKS IN FOR FAMOUS HOTEL REFURBISHMENT

A central Birmingham location, scaffold above a glass atrium, ensuring businesses can operate normally below and a very precise timeframe - the use of scaffolding from Layher Ltd. during the refurbishment of a major hotel in the city has had to meet clear challenges.

These have been addressed by Sky Scaffolding Midlands Ltd. who have used Layher scaffold, access and protection systems throughout this high-profile project. Repairs to brickwork, chimneys and windows on the building have been key elements at the heart of the refurbishment programme which has had to accommodate the twin timeframes of Birmingham's Christmas Market and the forthcoming Commonwealth Games in 2022.

"We have installed scaffolding to nine levels to provide full and clear trade access, all connected by a ground to roof Layher staircase system - itself kept separate from the public via a *lockable Layher Protect panel door,"* says Jack Davies, Project Manager at Sky Scaffolding. Protection for the public areas below was provided by fan installations with shrink wrapping across the scaffold structure creating a further safety feature.

"It was also important that full public access to the shops at ground level was maintained so the scaffolding was removed at key points with multiple standards then taking the weight above," he adds.

One of the key needs - arguably one of the most dramatic - centred on the requirement to provide scaffolding access above an internal glass atrium.

"This was achieved by creating a birdcage from Layher Allround which was then suspended from anchors fixed to the hotel's internal wall," explains Jack Davies, "This also helped us follow the principle of minimal intrusion into the fabric of what is a celebrated Victorian building."

Safe multi-level access, clear walkways that optimise the movement of materials and the workforce as well as the ability to accommodate very specific project needs - all are factors that, according to Layher's Design Engineer responsible for this job Jon Armitage, demonstrate the suitability of the company's equipment for the project.

"Everything about the access provision for the hotel refurbishment is impressive and Sky Scaffolding deserves great credit for meeting the specific needs," adds Andrew Gee, Layher Area Sales Manager.

It is a comment that is echoed by Sean Pike, Layher's UK Managing Director - "We are delighted that our equipment, particularly its versatility, has come to the fore in Birmingham."



MAJOR CANTERBURY **DEVELOPMENT GAINS FROM** LAYHER SCAFFOLDING

A major new residential, retail and leisure complex in the south-east of England has benefited from the use of Layher scaffolding systems during construction. GKR Scaffolding Ltd. appointed by main contractor, Bouygues (UK) Ltd., working for the University of Kent - has been responsible for access provision at the Riverside Development in Canterbury where the use of Layher equipment has played a key role in helping to meet the build programme's objectives.

"The Riverside will feature a combination of residential units including 493 student beds, a cinema, shops, café and bars," says Tony Lane, Operations Director at GKR Scaffolding, "with our involvement on five buildings within the residential area. The decision to use the Layher equipment, which is our first commitment to and investment in the system, has brought clear benefits in terms of efficiency, safety and project scheduling."

The Layher Allround system has been deployed by GKR to provide façade access of up to six storey levels on the five buildings. Fitted throughout with Layher steel decking, the design provides clear walkway access with only a minimal requirement for cross-bracing. The wide bay design has also helped with the positioning and movement of building materials, with the use of loading bays - also constructed using Layher Allround - a further key element.

"With further gains in terms of transportation and storage, this is the ideal system for an application such as the Riverside," says Sean Pike, Layher's UK MD.

The project is seen as a major development in Canterbury and one which will provide high guality facilities for students and local residents alike.



AND FINALLY. . . OUR THANKS!

We could not close this issue of Update Layher without wishing Layher's Business Development Director, Margot Hofmann, a long and happy retirement.

As the company's activities in the UK have developed and grown over the years, Margot has given us invaluable support from our head office in Germany.

"A long-time champion of innovation – such as the Allround AGS Façade System featured inside – Margot has helped us, in so many ways, to bring the benefits of both Layher equipment and the spirit of Layher as a company to all of our customers," says Sean Pike, Layher's UK MD.

"As a generous host whenever we have taken guests to the factory, her direct involvement with all of our UK customers, and others, has always been vital and greatly appreciated.

"So thanks Margot, from all your colleagues in the UK – enjoy a relaxed, well-deserved retirement long into the future."

CLEVER IDEAS

Our latest *Hints, tips & innovations* flip book will shortly be available – and is set to be an invaluable aid for all customers.

"The publication is designed as a handy, pocketsized resource which is spiral-bound for 'lie-flat' convenience," says Sean Pike, Layher's UK MD. "It includes in-depth solutions and suggestions on a range of subjects and reflects the continuous innovation that is at the heart of Layher's success – much of which has been inspired by our customers."

Set out for easy navigation, topics in the new flip book include –

- Corners, splays and fans
- Gap management
- Console brackets
- Splitting bays
- Decking
- Bay sizing

"It even provides a collection of additional smaller hints and tips which our customers will find useful to know," adds Sean Pike. "The printed version of the publication can be obtained shortly from Layher and will then be made accessible via the Layher website."



The past, present and future of system scaffolding



NASC

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