

# LAYHER ALLROUND SCAFFOLDING® EMERGENCY EGRESS STAIRTOWERS



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Quality management  
certified as per  
ISO 9001:2008  
by TÜV-CERT



# THE FLEXIBLE STAIRTOWERS FROM LAYHER

## SAFER – ECONOMICAL – IMMEDIATELY AVAILABLE

Additional emergency egress stairway structures for buildings are becoming more and more important. That includes the **reinforcement of existing buildings** for public use, model building regulations require, for greater numbers of people, a second emergency egress route or modification to the existing one – for example for fire safety reasons. During **refurbishing work on buildings** of any type too, a second emergency egress route may be temporarily required if the main emergency egress route is closed due to building work. The requirements relating to dimensions for building stairways are in general governed by the IBC Code. Extensive refurbishing measures for larger and better emergency egress routes usually require additional of time and money. In some cases, refurbishing work by others is not even possible. The solution: public

access stairtowers from Layher. Taking proven Allround Scaffolding as the basis, stairway structures can be flexibly adapted to a wide range of building situations, such as exit levels – for various rises and loads, and if required with child safety guardrails. Layher public access stairways also offer a long service life: this is assured by continuously monitored and high-quality production "Made in Germany", and by the high standard of surface coating on all Layher steel components by means of hot-dip galvanising.

### Important legal requirements for stairways open to the public

- ▶ Public Access Live load : 100 psf (5 kN/m<sup>2</sup>)
- ▶ Riser min. 4" (102 mm) max. 7" (178 mm)
- ▶ Thread min. 11" (279 mm)
- ▶ Minimum Width 44" (1148mm)
- ▶ Guardrail compliant with IBC section 1015

**Note:** These requirements may differ or can be increased to comply with other local regulations and laws. Continuous Handrail and stair covering might be required depending on the local codes.

### Your requirements – our solutions

If existing buildings fail to comply with legal requirements relating to emergency egress routes, additional measures are needed for the

latter. They can be provided economically and quickly using public access stairtowers made using the Layher Allround Scaffolding construction kit.



**Adaptation of the flight width** to local conditions and requirements using system stairways from 1.29 to 2.07\* metres wide.



**Adaptation of the entry and exit levels** at the stairway bottom or top area using equalising stairways with different heights.

\* Other dimensions can be designed under the condition that additional features are provided.



For a **reduction in the risk of injury** Allround standards without spigots can be used in the top stairway level – and optionally with tube caps. This ensures at the same time an attractive appearance.



Even **great heights** of over 50 feet are **possible** without any problems – the load capacity can be further increased by bundling the standards.



The required **headroom can** where necessary **be increased** by the use of different diagonal braces in conjunction with the clampable rosette from the Allround Scaffolding construction kit.



To make emergency egress stairways **accessible from different points of the building**, projecting building walkways at the top level can be built completely using standard parts from the Allround system.

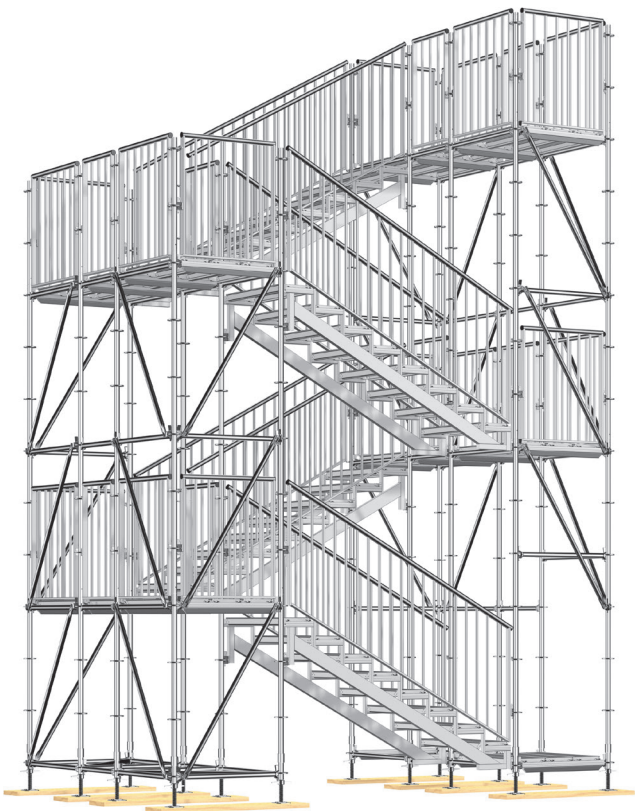


To **prevent unauthorised access to the stairtower**, the lower exit area of the stairway can be enclosed using the Layher Protect System. An ideal addition to this is the Protect door element, which can only be opened from the inside.

The 16-standard design of the Allround stairtower is suitable for uses with high live loads. In this case, the stairways are made up of individual stringers and – as steps – of series decks. That permits variable stairway flight widths of 1.09 to 2.57 metres. The 16-standard floor plan of the stairtower permits, in the intermediate bays too, adjustment of the exit heights using short equalising stairways.

Thanks to their modular design, the weights and the volumes of the individual parts are low, assuring rapid and hence economical assembly and dismantling as well as creating advantages for the logistics. The high proportion of standard Layher Allround Scaffolding material further contributes to high efficiency.

### 16-standard Allround stairtower with platform



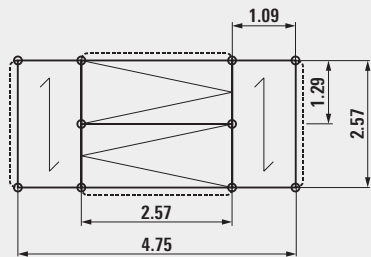
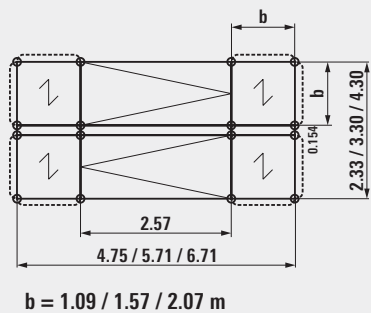
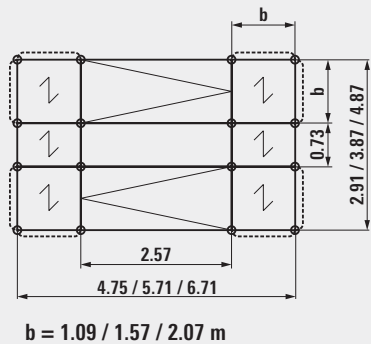
#### The benefits for you at a glance

- ▶ Inexpensive alternative to one-off solutions using steel or wood.
- ▶ Rapid assembly of emergency egress stairtowers from immediately available standard components.
- ▶ Flexible adaptation to different building conditions.
- ▶ Reusability of scaffolding parts for other applications.
- ▶ Sturdy and corrosion-resistant components thanks to hot-dip galvanisation – "Made in Germany".

The **stairtower 750** is, thanks to its riser dimensions and load capacity values, the optimum solution for stairway structures open to the public and **as the first emergency egress stairtower**.

The advantages of modular-designed Layher Allround Scaffolding over one-off solutions made of steel and wood are persuasive: rapid and economical assembly, exact adaptation to prevailing conditions, and later re-use of the scaffolding parts when the building requirements change – or for new applications.

### Ground plan design variants



#### MORE INFORMATION

An overview of all access solutions from Layher can be found in the Temporary Accesses brochure: [downloads-en.layher.com](https://downloads-en.layher.com)



In successful use for many years





Layher is your dependable partner with more than 70 years of experience. "Made by Layher" always means "Made in Germany" too – and that goes for the entire product range. Superb quality – and all from one source.

Proximity to the customer is a central factor behind Layher's success – geographically speaking too. Wherever our customers need us, we will be there – with our advice, assistance and solutions.



**SpeedyScaf**



**Allround Scaffolding**



**System-free Accessories**



**Protective Systems**



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# Layher®



**More Possibilities.** The Scaffolding System.