

Site Stairway

the safe temporary access solution

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Regulations and Standards

There has been a general move within Regulations to promote safer and easier methods for temporary access between levels in construction. The need to carry small tools and materials to and from the workplace, and the benefit of forward facing movement, have encouraged the development of the Site Stairway

The Site Stairway has been designed and tested to meet the access performance requirements within the European Standard EN 12811 – Temporary Works Equipment - performance requirements and general design.

The angle of operation, loading requirements, tread dimensions, and minimum width are all taken into account in the system design. The performance requirements are met or exceeded in every case.

Full technical information is available within the user instructions and on the training courses.





Site Stairway

General construction best practice, and increasing regulations, support the move away from ladders as the means of temporary access between levels on construction sites. The Site Stairway offers a simple, safe and practical solution.

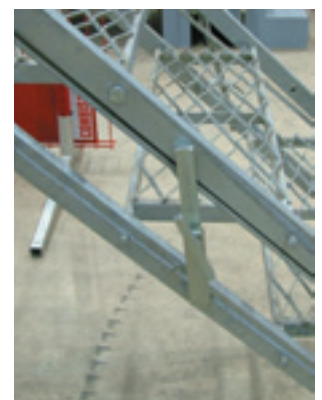
The Stairways are quickly and easily installed on site, straight off the back of the transport, and are ready for use in minutes.

Set up at between 25° and 50° they are used facing forward, and users can carry small tools, equipment, and materials in safety and comfort.

They can be set up on table forms, in service ducts, around the perimeter, or elsewhere, frequently protecting the buildings stairs from the wear and tear of the construction process. They fully comply with EN 12811, as Temporary Work Equipment for access between levels on scaffolding.

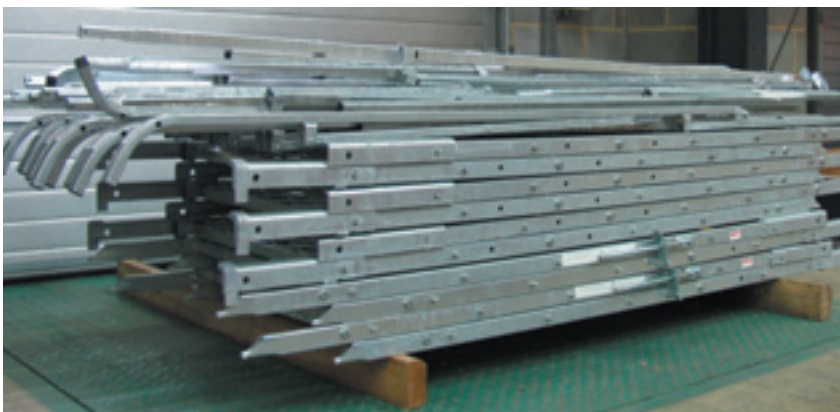
Features and Benefits

- The stairways come in six lengths, which can be joined and supported to offer a single run climb height of up to 7.5m.
- There is a double handrail on both sides, which automatically adjusts to the correct height.
- Whatever the angle of the stairway, the treads will always be horizontal.
- An automatic locking mechanism is designed to engage once the stairway is at the correct angle.
- A manual locking device is available in addition to the automatic locking mechanism. The manual lock is mounted in the pre-drilled holes on the opposite side to the automatic lock. This can be used during long-term or permanent stairway installation, or where the ground is loose or uneven.
- The Stairway is manufactured in steel section, and has a durable galvanized finish as standard, although a painted and lacquered alternative is available.
- The treads have a course expanded metal plate for grip, which also clears muddy footwear in use.



Features and Benefits

- The bottom of the stringers have points to prevent slipping.
- The Stairway allows access for two persons at any one time.
- Being over 750mm wide, the Stairway permits occasional passing if required. For high passage rates the Stairways can be set up in pairs, each for one way traffic.
- The Stairways can be pre-joined to the required length before being sent to site, alternatively they can be site assembled.
- Units over 21 steps require a Combibeam for stiffness. Pre-fitting this before transport speeds up erection on site.
- The Stairways can be folded flat for ease of transport.
- The Stairways can be quickly and easily erected on site by two operatives. The handrails are simply secured in place, and the Stairway is then lifted into position using lifting equipment.



Applications and Arrangements

This highly flexible temporary stairway offers a simple and effective access solution:

- Between levels on scaffolding
- Access to table platforms
- Access up batters and embankments
- Stairways can be used in lieu of permanent stairs
- Access into service ducts
- Access to temporary site offices and portacabins



SIZE AND STABILITY

18-step and 21-step units require a bolt-on support. Units over 21 steps require a Combibeam, assembled from end modules and intermediate modules.

Other special sizes can be manufactured on request, for example, narrow stairs for system scaffolds or a specific number of steps for a frequent rise height and angle.

INSTALLATION

Two operatives can easily install Stairways up to 9 steps. 12-step units and above will require lifting equipment.

The top is fixed to the upper level with one of a range of attachment devices to prevent movement in use, and the bottom of the stringers have points to prevent slipping.

All the Stairway units are cross-braced between stringers for increased stability; however, it is recommended that they are erected on a flat secure surface, or onto a sole plate if on soft ground.



ATTACHMENTS

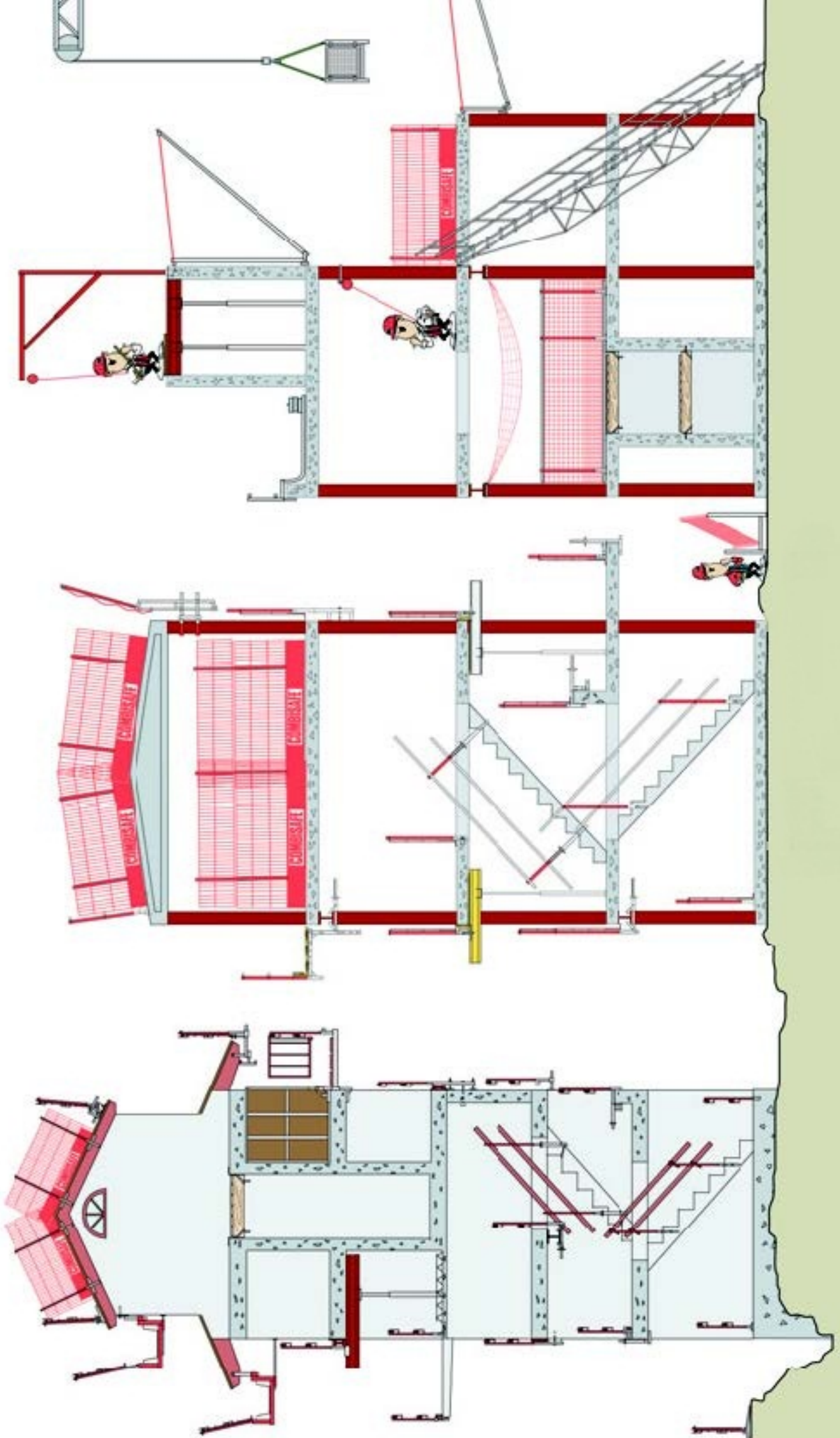
Slab Attachment

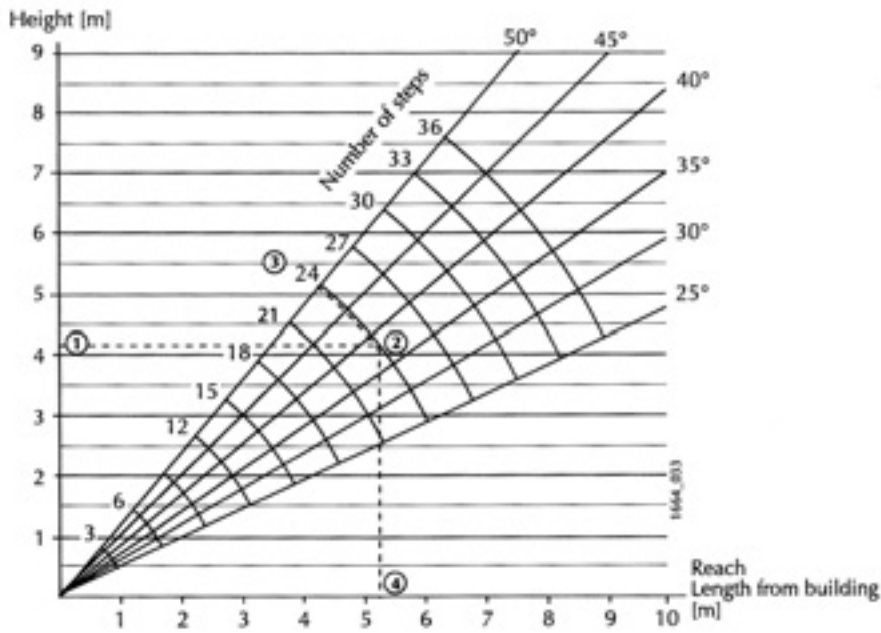
The Slab Attachment is mounted on the stairway splice bracket to secure the stairway at the top. It is bolted to the concrete using an anchor or through the deck material.

Scaffolding Attachment

The Scaffolding Attachment is designed to hook over standard scaffold tube, and to integrate with some system scaffolds. It can have a lock fitted, and should be used with some scaffolding fittings to prevent sliding sideways.







Inclination Diagram

The inclination diagram shall be used for selecting the stairway length.

Recommended inclination range is 25-50°

The example in the diagram is shown with dotted lines and shall be interpreted as follows (example within brackets):

1. Start with the total rise height required (4.2 m).
2. Follow the rise height across into the fan of recommended inclination (38°).
3. Choose the number of steps based upon the inclination required (24 steps at 38°)
4. Follow downwards from the intersection - and read off how far out the base of the stairway will be (5.3m).

