SAFESTAND® Ltd

SafeStand®
Access System

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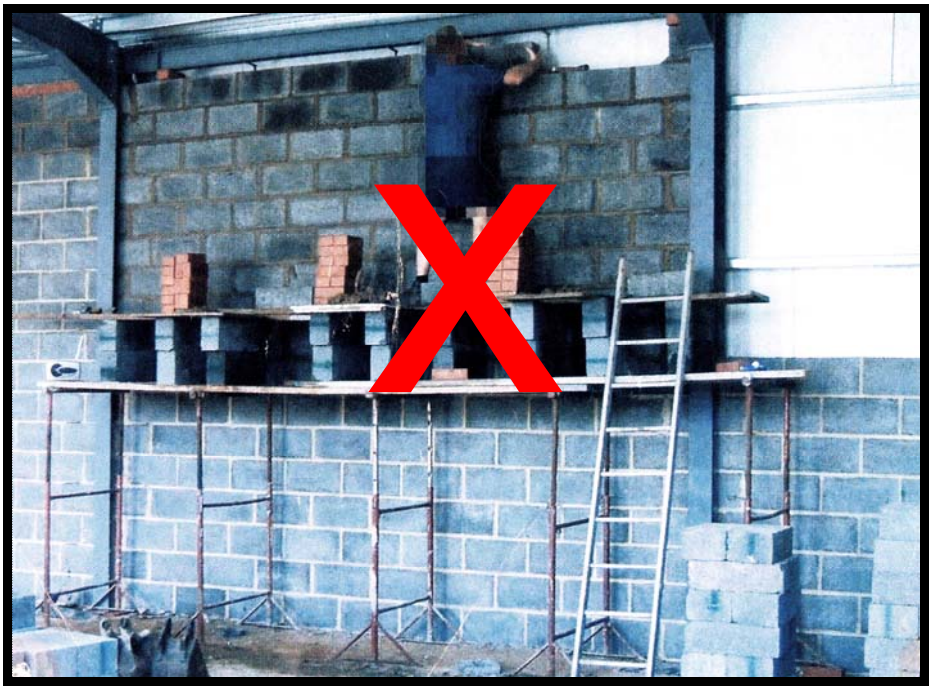
Introduction to the SafeStand® Access System

“Designed by builders for builders”

Work at height has always been hazardous and in spite of everything that has been done over recent decades to improve this record, it is still a major cause of death and serious injury in the workplace.

With the introduction of new Work at Height Regulations in 2005, the definition of the term "Work at height" was changed to mean any place from which a worker could injure themselves from falling - regardless of whether it is above, at or below ground level. The reason for the change is that, from past experience, there have been more injuries from low level falls (i.e. less than 2 metres) than from high level falls. Consequently, organisations must now take precautions under the new regulations, regardless of the height.

Traditionally, “trestles” or “bandstands” as they are sometimes called have been used extensively in the construction industry in lieu of scaffolding for low level access/working platforms. Increasingly, more and more contractors are banning this form of access from the workplace and are insisting that guardrails are required to **all** working platforms no matter what the height. Safestand® Access Systems comply with this criteria and are quite often specified by contractors.



The ‘SafeStand® Access System’ is designed to be used by skilled or semi-skilled operatives. By using the ‘SafeStand®’ system an access platform of any length may be constructed by adding units until the required length is reached. For convenience, units are designed to be used in groups to suit standard scaffold board lengths i.e. 3.9m, 3.0m, 2.4m & 1.8m. It is extremely versatile and adapts to suit almost all site situations.

SafeStand® have demonstrated an understanding and responsiveness to on site safety requirements and the continual development and enhancements of its systems proves that SafeStand® are the industry leaders in terms of the provision of low level access systems.

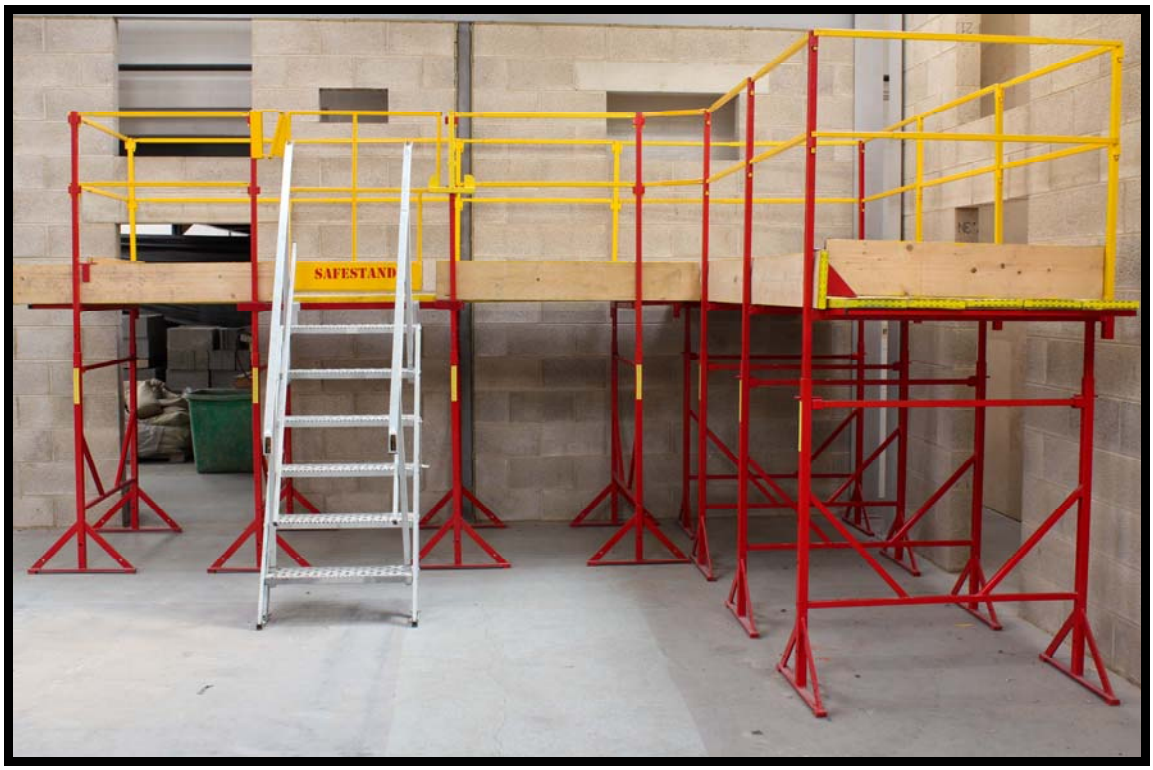
Description of the SafeStand® system

The system is constructed from robust steel box sections with a powder coated paint finish to prolong service. It is designed to be used in conjunction with standard scaffold boards and other components, ensuring the best use of equipment readily available.

The system has been specifically designed to simplify erection; the number of standard components is limited to eight, each of which are colour coded, to ensure clear and uncomplicated systems of work can be achieved on site and to facilitate ease of inspection during use.

In use, the height of the platform is set using the pin, next the boards are placed in position, and the kick boards located using the integral kickboard restraint brackets. If required, end toeboards can be fitted utilizing purpose made toe board return brackets.

Because of the exceptional load bearing capacity of each stand, the system is ideally suited to be used as loading bays for use with forklifts.



Key Features of SafeStand®

- Robust, counter-balanced base frame.
- Telescopic guardrails that provide flexibility in erection.
- Locking pin that prevents guardrail from being over extended.
- Bracket for toe/kick boards.
- Short handrail to link adjacent units together.
- Anti flip brackets prevent boards from overturning/ creating a “trap”.
- Ladder Brackets enable ladders to be safely secured to the system.
- No screws, clips, nuts or bolts, which are easily lost or damaged, are utilised.
- Diagonal brace for added stability when used at full extension.

Typical Uses For SafeStand® Access Systems

SafeStand® 1200's On a Curve
(Laing O'Rourke at Pembury Hospital)

Steel fixing
(Daninger Construction Ltd)

Balcony Soffit Cladding
(John Fleming Construction, Dublin)

Blocklaying
(BAM Construction Ltd)

Installation of Gabion Walls
(C.A Blackwell - Balfour Beatty – London)

Blockwork
(C& I Smith - Wates – Wakefield)

Benefits of the SafeStand® System

SafeStand® 1200 System being used by Lesterose Builders Ltd on a Bovis Lend Lease site at Maddox St, London.

For the user of this system the benefits are:

- Simplicity of erection, universal components.
- Speed of erection; 12m in less than 15 minutes.
- Excellent safety features, ensuring proper and safe use in operation.
- Uninterrupted, more cost-effective production, without having to wait for other trades.
- Minimal requirement for supervision during erection and use.
- Relatively lightweight, facilitating ease of repositioning.
- Built to last.
- Any length can be created.
- Large range of platform heights available; from 500mm to 2200mm.
- Cost effective, minimal labour requirement.
- Adaptable, can be built in a shallow curve, turns 90°, integral loading bays can be included.

By utilising short and mini guardrails the system can be erected at 90° whilst still maintaining the boarded platform at a level ensuring that there are no trip hazards.

Summary of SafeStand® Access System

The SafeStand® system ensures safe access during work at height. The system meets all safety requirements and when used as a system each individual SafeStand® has a SWL of 1000kgs (1 tonne).

The system is simple to erect enabling the works to proceed without delay. Patented interlocking units ensure ease of assembly.

Whilst initially designed for brick/blockwork construction, its versatility and strength has allowed SafeStand® to be used for a number of other construction activities ranging from demolition, concrete reinforcing works, M&E installation and window installation to decoration works. The SafeStand® units can be combined to form a platform of any length to suit the work task.

The system's versatility lends it to non-construction related uses such as, all forms of access to heights; events management, theatres, viewing platforms, etc.

The SafeStand® unique design will assist best productivity and highest safety standards.

Pacebrow Brickwork Ltd – BAM – West London

Patent Protection

SafeStand® Ltd have rigorously ensured that all elements of their unique access systems are protected by UK, Ireland, European and International patents.

The uniqueness of this system has been recognised by a grant of patents in accordance with the Patents Act 1977 with further Patents pending.

UK Patent Nos. GB2364733, GB2378978,GB2415225, GB2421538, GB2415223, GB2420821, GB2421050, GB2420822, GB1660738, & GB Patent App. Nos. 2447420

Ireland: S84256, S84257, 84695, 1660738,

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Sweden:	**1700972, 1660738**
Switzerland:	**1700972, 1660738**

PCT: 2005/124057, App. No. WO2008/110812

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UK Trade Mark Reg. No. 2352394

Community Trade Mark No. 3872611 (All EU Member States) & No. 5128871 (All EU Member States).

European Patent App. Nos. 1696084, 1700973

USA Patent App. No. 11/630174

New Zealand Patent App. No. 551992

Canada Patent App. No. 2570528

China Patent App. No. 1989309

Australia Patent App. No. 2005254758

Technical Specification

All load testing to the relevant British Standards has been, and continues to be independently carried out by Lloyds British.

Load Testing SafeStand® Access Systems:

SafeStand® systems were tested by Lloyds British to BS 1139 Part 4 1982; they were subsequently found to have exceeded this requirement.

In all a load of 5000kg (5 tonne) was applied to both the 1200 system (utilising the diagonal brace) and the 800 system at maximum extensions. This resulted in a load on each stand of 2500kg (2.5 tonne) which when factored by a safety factor of 2.5, as required by BS 1139, each stand has been given a SWL (safe working load) of 1000kg (1 tonne) and have been issued with a Lloyds British stamp of approval.

Handrail Testing SafeStand® Systems:

In addition the SafeStand® Systems were tested for compliance to BS EN 13374: 2004, Temporary Edge Protection Systems, class A. Again this testing was independently carried out by Lloyds British. The testing produced results that demonstrated that the SafeStand® handrails could take loads of more than three times the requirement of the above British Standard. Lloyds British stated that the SafeStand® system surpasses all current requirements and, subject to specification conformity, the system was issued with a Lloyds British stamp of approval.

SureStand® Access Systems:


LLOYDS BRITISH

TEST REPORT NO: 152942

CUSTOMER: SAFESTAND ACCESS SYSTEMS

DATE OF TEST:06.06.2007

JOB NUMBER: 152942

ORDER NO: VERBAL BRIAN

INTRODUCTION:

A 4 metre set of sure stand access system was set complete with boarded platform, toe board and handrails were submitted for testing for compliance to BS EN 13374: 2004, temporary edge protection system, class A no stabilisers were fitted to system.

PROCEDURE:

A 4metre run of the sure stand access system was set up in accordance with the manufacturers instructions.
4 number stands were set at 1200 mm intervals. 4 number scaffold boards were utilised to create the platform, a single scaffold board was used to create a toe board and 16 number guardrails were installed in locating sockets.
Tests were conducted without counterbalance.

RESULTS:

Like the SafeStand® Systems, SureStand® was independently tested by Lloyds British and again surpassed the requirements of all current British Standards.

Should you require copies of any of the test certificates, or any other information about the specification of SafeStand® Access Equipment, please contact our office to discuss your requirements.

SafeStand® 500 Access System

8m run of SafeStand® 500 System shown

NOTE: Any Length Of Platform Can Be Created Using Varying Lengths Of Scaffold Boards.

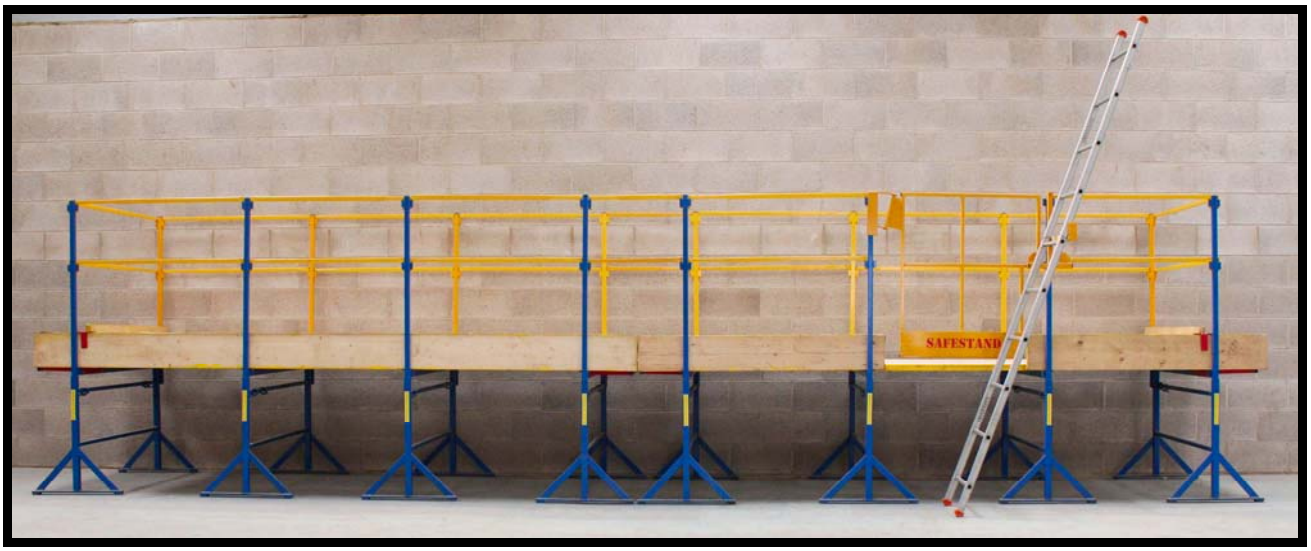
Typically, each 13’ (4m) run would include:
4 x SafeStands®
4 x Front Posts
16 x Horizontal Guardrail
2 x Anti-Flip Brackets
2 x Toeboard Brackets
1 x Ladder Support Bracket

And will also require:

6 x 13’ Scaffold Boards
1 x 3M Pole Ladder
1 x Ladder Lashing
5 x Brickguards

Erected Platform Heights = 540mm, 640mm & 840mm

SafeStand® 800 Access System



8m run of the 5 Board 800 System shown

NOTE: Any Length Of Platform Can Be Created Using Varying Lengths Of Scaffold Boards.

Typically, each 13’ (4m) run would include:
4 x SafeStands®
4 x Front Posts
16 x Horizontal Guardrail
2 x Anti-Flip Brackets
2 x Toeboard Brackets
1 x Ladder Support Bracket

And will also require:

6 x 13’ Scaffold Boards
1 x 3M Pole Ladder
1 x Ladder Lashing
5 x Brickguards

A 4 Board wide system is also available for hire.

Erected Platform Heights = 840mm, 980mm, 1150mm & 1340mm

SafeStand® 1200 Access System

8m run, shown raised to full extension; 2.210m platform

NOTE: Any Length Of Platform Can Be Created Using Varying Lengths Of Scaffold Boards.

Typically, each 13’ (4m) run would include:
4 x SafeStands®
4 x Front Posts
16 x Horizontal Guardrail
2 x Anti-Flip Brackets
2 x Toeboard Brackets
1 x Ladder Support Bracket
4 x Diagonal Braces (Platform Heights Above 1.8m)

And will also require:

6 x 13’ Scaffold Boards
1 x 3M Pole Ladder
1 x Ladder Lashing
5 x Brickguards

The 1200 system provides working platforms up to a height of 2210mm allowing the user to finish works up to 4500mm high.

Erected Platform Heights = 1320mm, 1360mm, 1530mm, 1700mm, 1870mm, 2040mm, & 2210mm

SureStand® 800 System

8m run of the SureStand® 800 System shown

NOTE: Any Length Of Platform Can Be Created Using Varying Lengths Of Scaffold Boards.

Typically, each 13’ (4m) run would include:
4 x SureStands®
4 x Front Posts
16 x Horizontal Guardrail
2 x Anti-Flip Brackets
2 x Toeboard Brackets
1 x Ladder Support Bracket

And will also require:

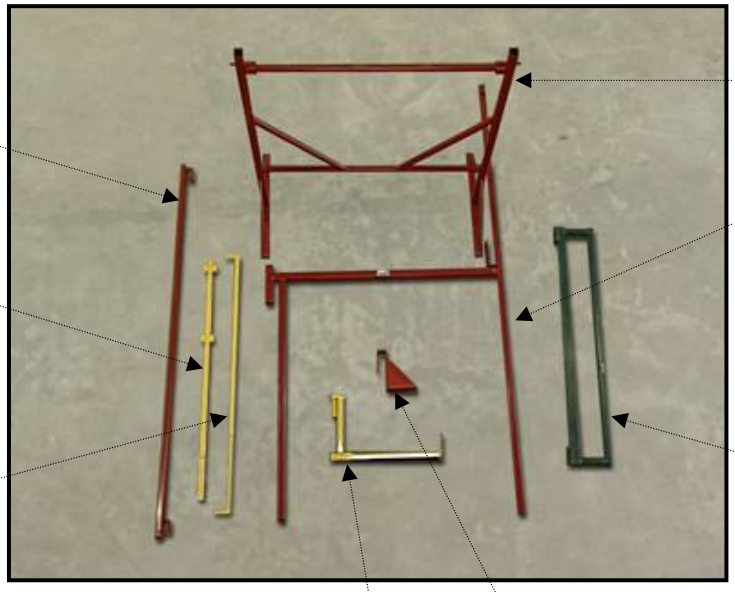
5 x 13’ Scaffold Boards
1 x 3M Pole Ladder
1 x Ladder Lashing
5 x Brickguards

NOTE: SureStand® has been specifically designed as a lightweight alternative to SafeStand®. The Safe Working Load (SWL) of each SureStand® is 800kg.

Erected Platform Heights = 840mm, 890mm, 1040mm, 1190mm & 1340mm

Schedule of SafeStand® Component Weights & Platform Heights

SafeStand® Consists of Eight Standard Components.



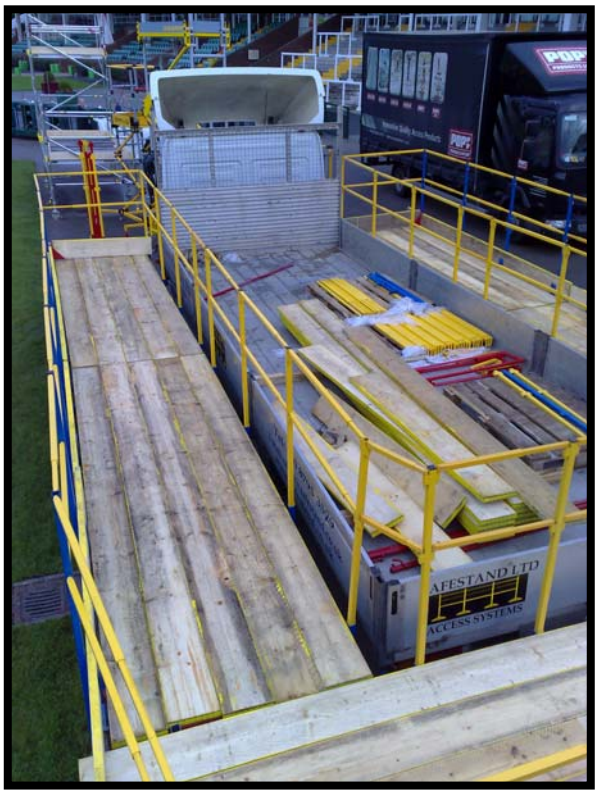
Description	SafeStand® 500 System (4 Board)	SafeStand® 800 System (4 Board)	SafeStand® 800 System (5 Board)	SafeStand® 1200 System (5 Board)	SureStand® 800 System (4 Board)
PLATFORM HEIGHTS	540	840	840	1320	840
	640	980	980	1360	890
	840	1150	1150	1530	1040
		1340	1340	1700	1190
				1870 (BRACE)	1340
				2040 (BRACE)	
				2210 (BRACE)	
WEIGHTS					
SafeStand® Upper	10.0 kg	11.5 kg	11.5 kg	13.0 kg	6.5kg
SafeStand® Lower	14.8 kg	16.5 kg	18.0 kg	21.0 kg	8.5kg
Removable Front Post	3.1 kg	3.1 kg	3.1 kg	3.1 kg	2.0kg
4 Board Anti-Flip Bracket	4.0 kg	5.5 kg			4.0kg
5 Board Anti-Flip Bracket			4.9 kg	4.9 kg	
Guardrail	2.1 kg	2.1 kg	2.1 kg	2.1 kg	2.1kg
Ladder Bracket	3.0 kg	3.0 kg	3.0 kg	3.0 kg	2.0kg
Short Guardrail	1.0 kg	1.0 kg	1.0 kg	1.0 kg	1.0kg
Toeboard Return Bracket	1.2 kg	1.2 kg	1.2 kg	1.2 kg	1.2kg
Diagonal Brace				3.0 kg	

Loading Bays

Loading Out By Forklift

Loading Out By Hand

Vehicle Edge Protection



Awards

Belfast

SafeStand® Features

Diagonal Brace

The diagonal brace is one of the key features on the SafeStand® 1200 system. Used exclusively with the SafeStand® 1200 system the brace gives even further stability to the platform when being used at maximum extension. The diagonal brace is used **ONLY** when the platform height is over 1800mm

The diagonal brace is only used when the system is used with platform heights of 1870mm, 2040mm & 2210mm; 4 diagonal braces are supplied with every 4m SafeStand® Set at no additional cost to the customer; when required for these heights.

Guardrail Retaining Pin

As an added safety feature, all SafeStand® telescopic guardrails are fitted with a spring pin which prevents them from being over extended.

Ladder Access

The ladder bracket allows safe and easy access to the system.

Using a wire lashing to tie both stiles of the ladder to the ladder bracket, it then becomes an integral part of the system.

The general method of opening/closing off the access way is by unhooking one end of each of the guardrails at the entry point and opening/closing them by rotating them about the hooked end.

Anti-Flip Bracket

This bracket was designed specifically to overcome the inherent danger of “traps” (unsupported ends of scaffold boards) that are encountered when utilising traditional bandstands or trestles.

It has been designed with simplicity in mind; it connects to the horizontal transom of the SafeStand®, and provides support to the overhang of the scaffold board where boards butt up to each other.

The bracket also allows the working platform to be erected on corners whilst still providing a level platform without the need for lapping boards thus doing away with the trip hazard that would normally occur when using traditional bandstands/trestles.

Access Gate

SafeStand® have developed a self-closing, gravity hinged gate suitable for use with each of the SafeStand® Access Systems. The gate operates utilising a gravity swing hinge. This ensures that the gate "fails safe" to the closed position.

The arrangement of gate and latch mechanism ensures that even when not "latched", the gate does not open out from the work platform.

The gate follows the same principles of previous developments whereby no tools are required for the installation of the gate and it is extremely quick and simple to install. On site trials have been carried out with the feedback from both the users and safety representatives being very positive.

SafeStand® Staircase

SafeStand® have now developed a staircase to use in conjunction with the SafeStand® 1200 system. The result is a fold flat staircase with handrails that can be used with SafeStand Access Platforms at a height of 1340mm to 2200mm. The SafeStand® Staircase has been designed along the same principles as all SafeStand® equipment such that no tools are required to erect or dismantle the system. It is a two man operation to install the staircase which folds flat when not in use for, ease of movement about the site. The handrails are removable and also fold flat when not in use. The staircase support bracket simply slots over a rest bar which is inserted between two stands at the access point. The SafeStand® Staircase comes in two sizes; 6 Tread and 9 Tread.Each tread has a SWL (Safe Working Load) of 1.5kN per step (150kg).

Distribution

At SafeStand®, we utilise our own fleet of HGV vehicles to distribute SafeStand® Access Equipment throughout the UK. We can guarantee a 48 hour delivery service throughout the UK, but generally, if required, we can provide a next day service.

New Stock From Manufacturing Facilities

Product Awareness

SafeStand® Ltd regularly works with training colleges throughout the UK, demonstrating the benefits of SafeStand® Access Systems to the students and increasing their awareness of the various products available to them in their future careers on construction sites.

Bricklaying Apprentices at Milton Keynes College

SafeStand® Access Systems have over the years assisted various bodies in the preparation and production of Health & Safety publications with particular reference to Working at Height and are currently referenced in the CITB – Construction Skills GE706 Site Safety Simplified publication in the working at height section.

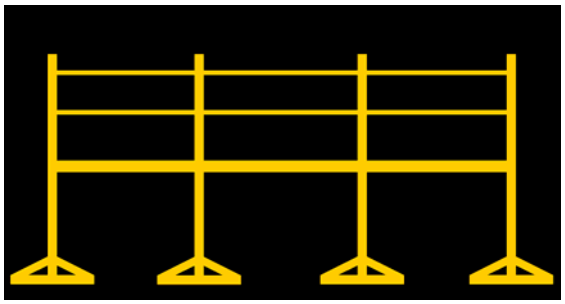
Demonstrating at HSE organised Safety, Health & Awareness Day (SHAD)

Just some of the contractors who have found SafeStand® to be a safe and cost effective access system.

Pyramid

For Further Information or Any Queries Regarding Your Requirements, Please Contact Us as Detailed Below

SAFESTAND®



ACCESS SYSTEMS

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