Gallery of Installations

Weddings & Parties
Sporting Events
Corporate Events
Festivals & Exhibitions
Special Projects

The principle behind all FloorStak products is simple……

…it's all about creating robust, safe, easy to use products which save time and effort on site.

In this booklet we have collected together images of some of the best applications of our products that we have seen.

If you are engaged in the events industry, we hope it will inspire you to discover more about how the FloorStak family of products can add a real competitive advantage to your business.

Weddings & Parties

Event : Wedding Reception
Location : Finland
Installer : Stopteltat, Helsinki

Event : Birthday Party
Location : Cotswolds, UK
Installer : Covered Occasions, Swindon

Event : Wedding Reception
Location : Northern Ireland, UK
Installer : Butlers Marquees, Randalstown, NI

Event : Wedding
Location : Oxfordshire, UK
Installer : Joseph Benjamin Marquees,

Event : Private Party
Location : Oxfordshire, UK
Installer : Joseph Benjamin Marquees,

Sporting Events

Event : Australian Rules Football - Finals
Location : Melbourne Cricket Ground, Australia
Installer : Harry the Hirer, Melbourne

Event : Ice Hockey World Championship Finals
Location : Helsinki, Finland
Installer : Kataja, Järvenpää

Event : Barbury Horse Trials
Location : Barbury Castle, Wiltshire
Installer : Covered Occasions, Swindon

Event : Caulfield Cup Horse Racing
Location : Caulfield, Victoria, Australia
Installer : Harry the Hirer, Melbourne

Event : Rugby Club
Location : Chartres, France
Installer : Structural, Beaune

Corporate Events

Event : VIP Dinner & Reception
Location : Saadiyat Beach, Abu Dhabi
Installer : Events by Bari, Dubai

Event : VIP Dinner & Reception
Location : Saadiyat Beach, Abu Dhabi
Installer : Events by Bary, Dubai

Event : Graduates Ball
Location : Oxford University
Installer : Simon Florey Marquees, Wantage

Event : Marketing Conference Dinner
Location : Leuven, Belgium
Installer : Organic Concept, Aartselaar

Event : Corporate
Location : Denmark
Installer : Trekantens A/S,

Festivals & Exhibitions

Event : Balloon Festival
Location : Bristol, UK
Installer : Showplace UK, Stratford on Avon

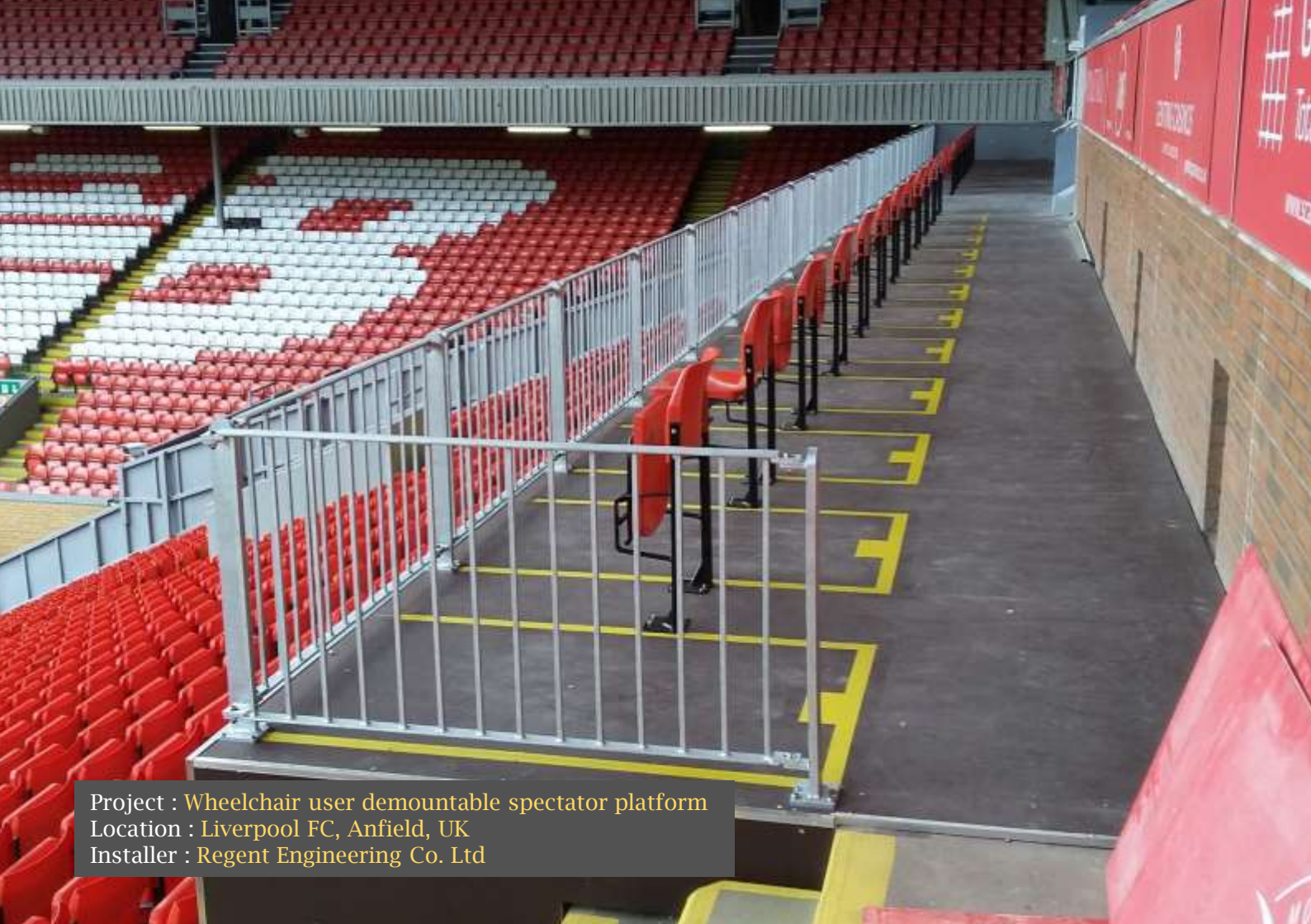
Event : Fashion Weekend
Location : Helsinki, Finland
Installer : Kataja, Järvenpää

Event : Röder HTS Höcker, Tentexpo 2016
Location : Wächtersbach, Germany
Installer : Regent Engineering Co, UK

Event : Showman's Show
Location : Newbury, UK
Installer : Showplace UK, Stratford on Avon

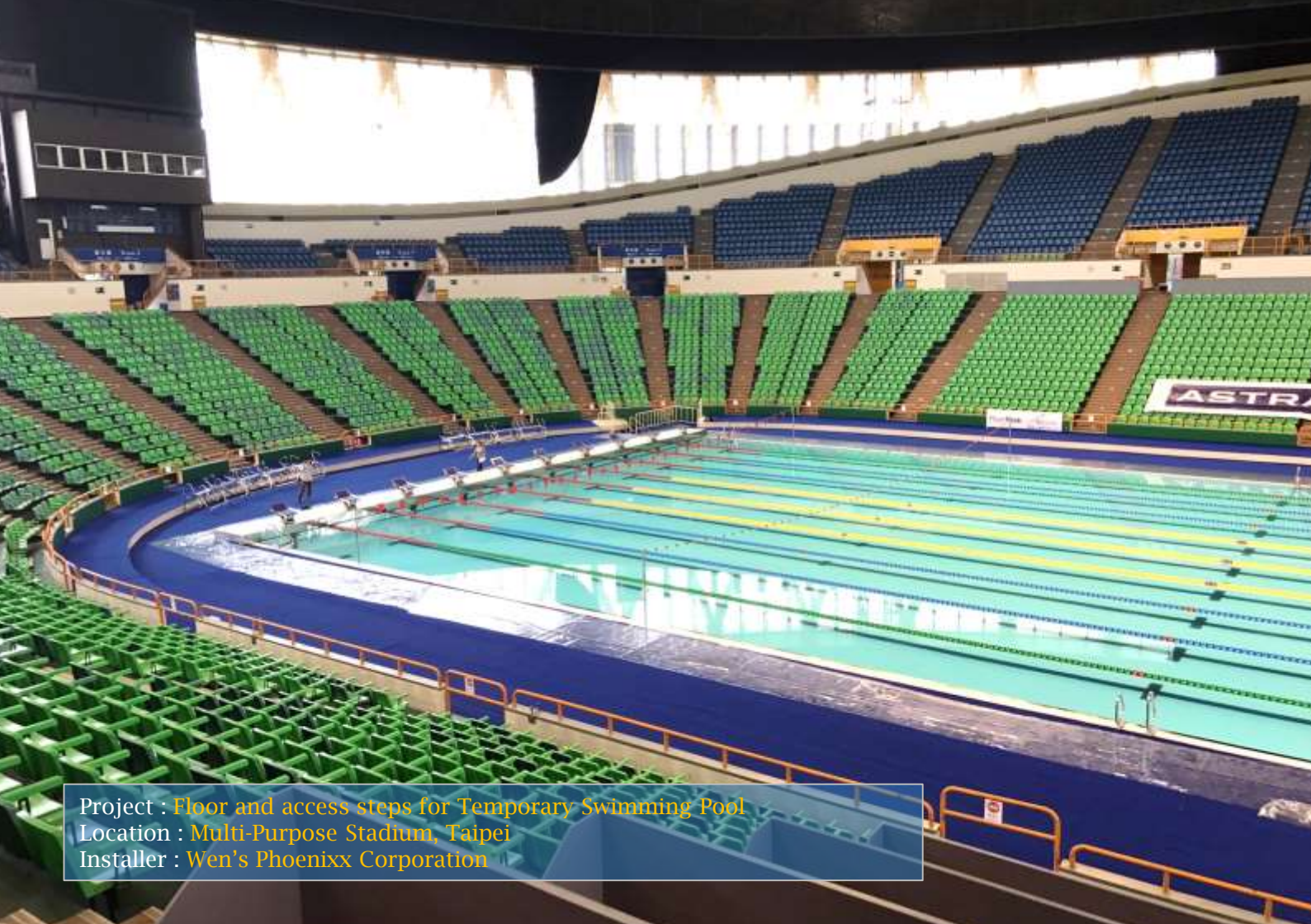
Event : Showman's Show
Location : Newbury UK
Installer : Tectonics UK, Alresford

Special Projects



Project : Wheelchair user demountable spectator platform
Location : Liverpool FC, Anfield, UK
Installer : Regent Engineering Co. Ltd


tered

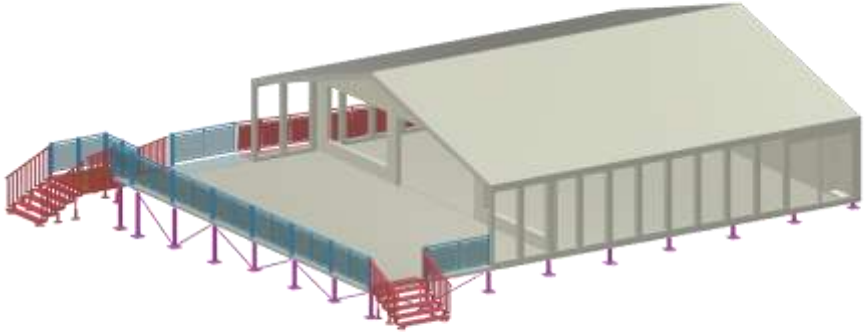


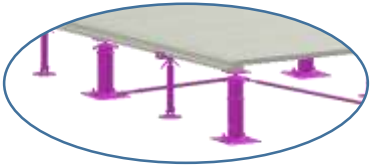
Project : Floor and access steps for Temporary Swimming Pool
Location : Multi-Purpose Stadium, Taipei
Installer : Wen's Phoenixx Corporation

This page is intentionally blank

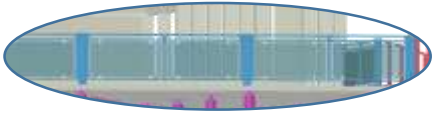
FloorStak®

Product Information





Floor Support
and Levelling



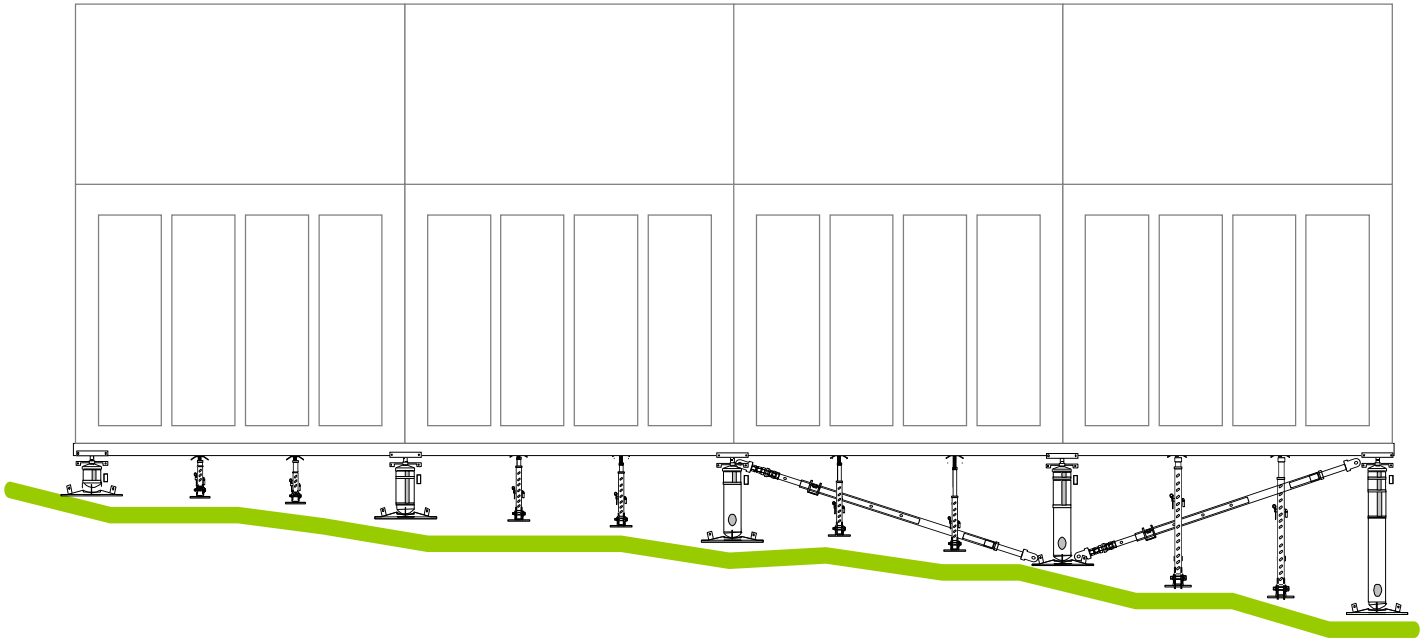
Balustrading

Access

FloorStak® - FLOOR SUPPORT AND LEVELLING

Benefits

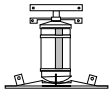
- Fast and easy to install – reduces manpower
- Engineered System – fully tested, safe, secure and satisfies regulations
- Gives a truly professional result
- Avoids involvement and cost of scaffolding contractors
- Versatile – can handle almost any slope or uneven surface
- Handles height differences of 2metres and beyond



FloorStak® - FLOOR SUPPORT AND LEVELLING

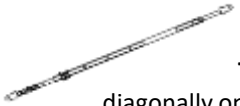
How it works

The FloorStak system consists of two supporting elements, FloorStak Columns, and iStak Intermediate supports, plus a third element, Telescopic Brace Bars for higher elevations.



FloorStak columns are positioned beneath the structure frames of an installation and take the main static and dynamic loadings imposed by the structure. This allows them to be built up quickly and easily in situ, and they have a positive mechanical connection to the flooring system. They can be secured to the ground with stakes, or attached to ballast blocks or water-filled ballast tanks.

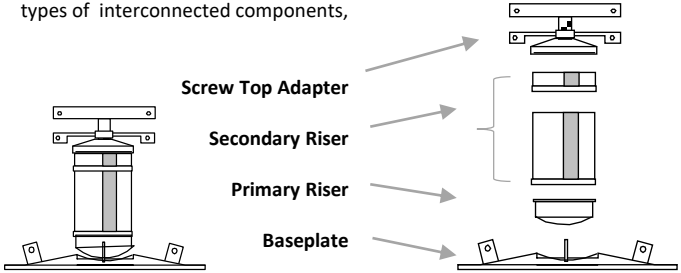
iStak Intermediate Supports provide additional vertical load resistance to the floor and are normally positioned at intervals along the flooring beams according to the required load rating of the floor.

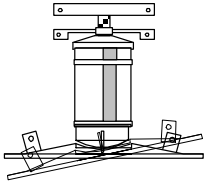


Telescopic Bracing Bars, used for elevations in excess of 60cm, are connected to the Heads and diagonally opposite Bases of adjacent FloorStak columns to give added stability to the structure. Recommended bracing patterns are supplied.

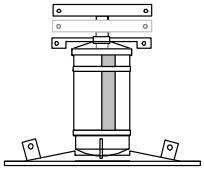
FloorStak® Column

A FloorStak Column is an assembly of 4 types of interconnected components,

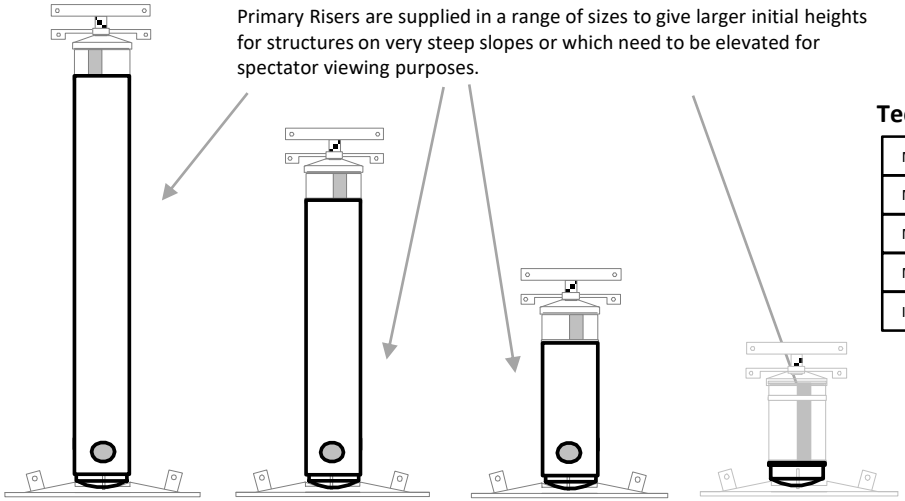




FloorStak® Columns can deal with sloping and uneven ground up to 12 Degrees utilising a unique "angle adjustment" feature incorporated in the Baseplate/Primary Riser assembly.



Secondary Risers provide height variation in increments of 200mm, 100mm and 50mm, and the Screw Top Adapter provides 55mm of fine adjustment.



Primary Risers are supplied in a range of sizes to give larger initial heights for structures on very steep slopes or which need to be elevated for spectator viewing purposes.

Technical Details

Maximum Static Load per column	4 Tonnes (Safety factor 1.5X)
Minimum Height per column assembly	17cm
Maximum Height per column assembly	200cm
Maximum angle adjustment	12 Degree Gradient
Installation tools required	M16 Socket Spanner (supplied)

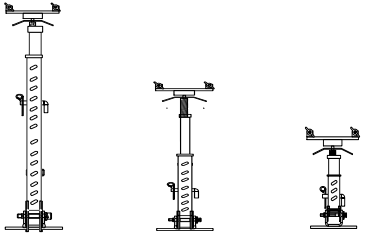
iStak Intermediate Support

iStaks can provide intermediate support under floor beams and sub-floor matrices. They are particularly effective when used with cassette floors which have a combination of Major and Minor beams.

They are available in three sizes ranges, 23cm to 40cm, 40cm to 90cm and 90cm to 200cm.

Height adjustment is very simple and quick via the telescoping base section and fine adjustment screw at the top. Attachment to flooring beams is by two clamping screws operating in the channel attachment at the top of each unit. The Base foot has a friction hinge enabling the iStak to be set vertical even on slopes, and also making the unit capable of folding into a smaller volume for storage and transportation.

Technical Details



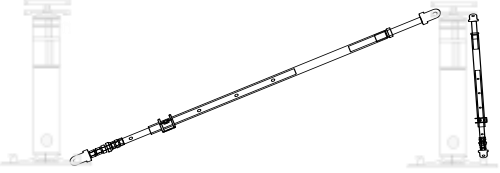
Maximum Static Load per iStak	1.0 Tonnes (Safety factor 1.5X)
Min – Max Heights per model (cm)	23-40 / 40-90 / 90-200
Maximum angle adjustment	85 Degrees
Installation tools required	None – manual operation

Telescopic Brace bar

Telescopic Brace Bars serve two functions,

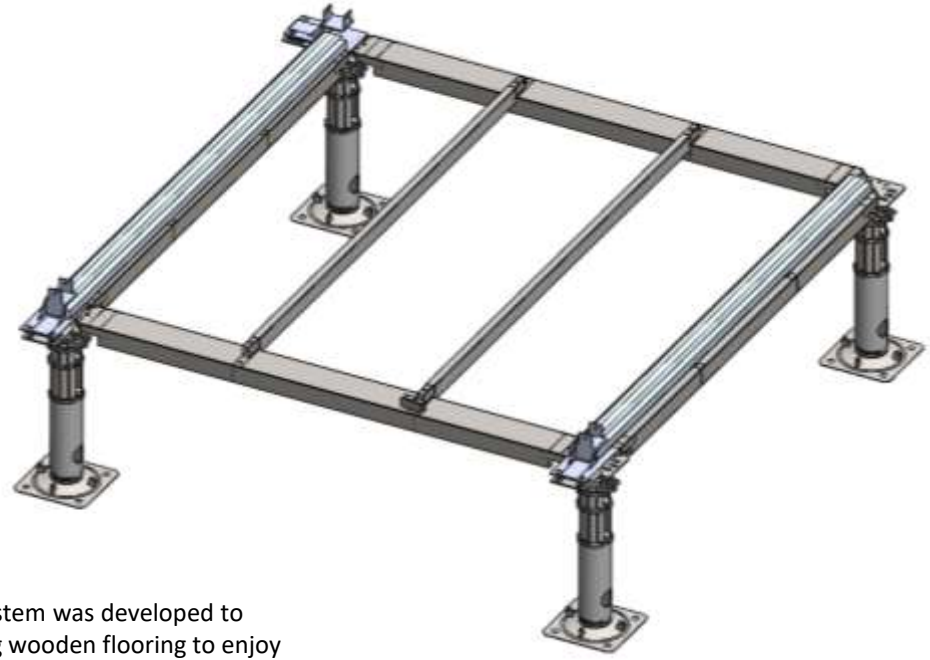
1. For structures where the floor is wholly or in part more than 60cm from the underlying ground level, Telescopic Brace Bars are fitted in pre-determined pattern between the FloorStak columns to provide a triangulated sub-structure which prevents the risk of collapse in high winds and slippage on very steep slopes.

2. They are also used as a supplementary connection between FloorStak Screw Top Adapters and Baseplates. In this function they can prevent flooring ring beams from tilting under the off-centre loading imposed by floor panels, and also provide additional “lift-resistance” to the FloorStak column.



Operating Ranges	35cm to 57cm
	50cm to 95cm
	90cm to 145cm
	140cm to 240cm
	208cm to 346cm
Maximum Tensile Load	2.25 T (1.5X Safety Factor)
Installation tools required	None – manual operation

Sub-Floor “beam” system



The FloorStak Sub-Floor Beam system was developed to enable installers with interlocking wooden flooring to enjoy the benefits of the FloorStak support and levelling system, without the need to invest in Cassette Flooring.

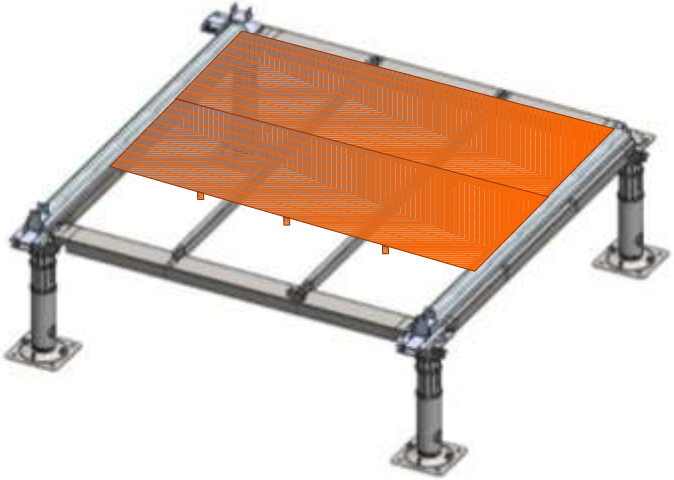
Essentially the system replaces a conventional steel matrix sub-floor, such as is normally used to support the floor panels, with a combination of Major Beams and Joist Beams which fit together to form a support structure, and is much quicker and easier to install.

Sub-Floor "beam" system

The Sub-Floor Beam system is made using the same philosophy as all other FloorStak products – it is well-designed, robustly made, and easy to install. Consisting of fabricated steel Main Beams and Joist Beams, it has a simple arrangement for positive location and connection with the FloorStak Columns. Just one tool, a 14mm A/F Allen Key is all that is needed to secure the final structure, everything else simply slots together with pegs and holes.

The Sub-Floor Beam System is quick and easy to erect and results in a secure and professional-looking construction.

Special Brackets, Baseplates, Step-over plates etc can be made to suit all types of flooring and structures. Because the frame Footplate is positively attached to the FloorStak column, a fully integrated structure results.



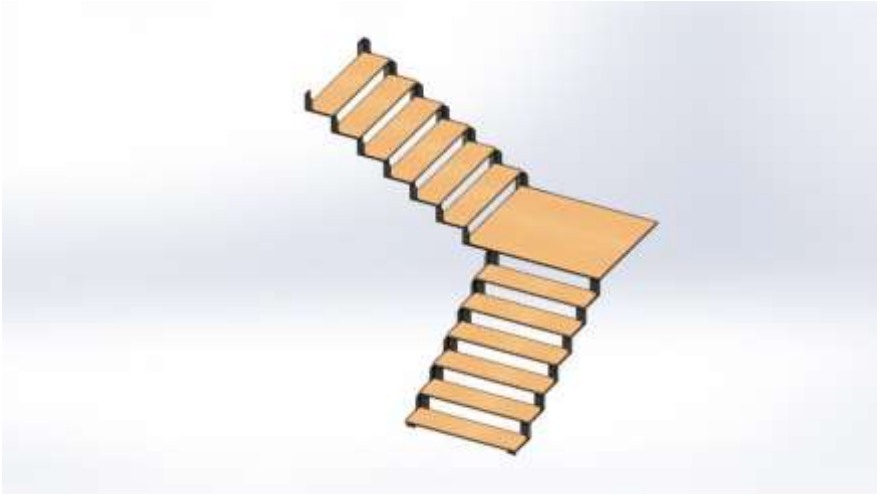
Technical Details

Suits flooring sizes	3 Metre and 5 Metre board width options (5 Metre is 2 x 2.5 metre bays
Static Load Rating	3.5Kn to 7.5Kn (with additional support legs)
Construction	Fabricated Steel – Hot Dip Galvanised
Floor makes supported	Roder HTS Hocker, Roder AG, Tectonics, etc

ACCESS - MODULAR STEPS SYSTEM

Benefits

- Superbly versatile – simply add modules as required by floor height
- Quick and easy to assemble with one spanner or impact driver
- Uses standard iStak supports for ultimate adjustability even on the most undulating sites
- Identical modular step units - no design input required, no skilled tradesperson required
- Universal “landing” element means units can be assembled in straight, 90 Degree turn, or 180 Degree turn configurations
- Satisfies regulatory requirements

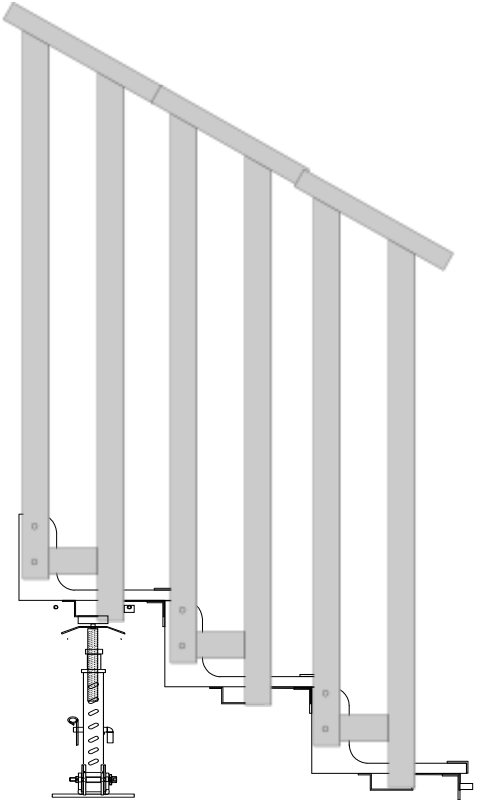


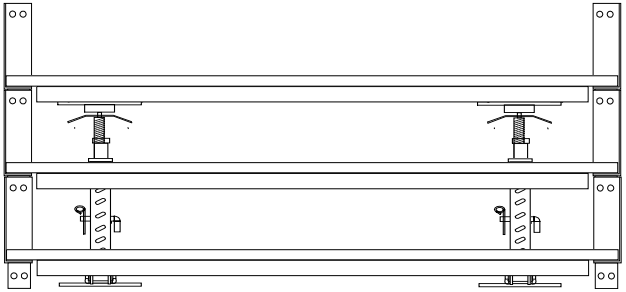
Technical Details

Maximum Load per step	190 Kgs (safety margin 1.5X)
Standard Step width	120cm (other sizes made to order)
Standard Height per step (Rise)	17cm
Standard Depth per step (Go)	30cm

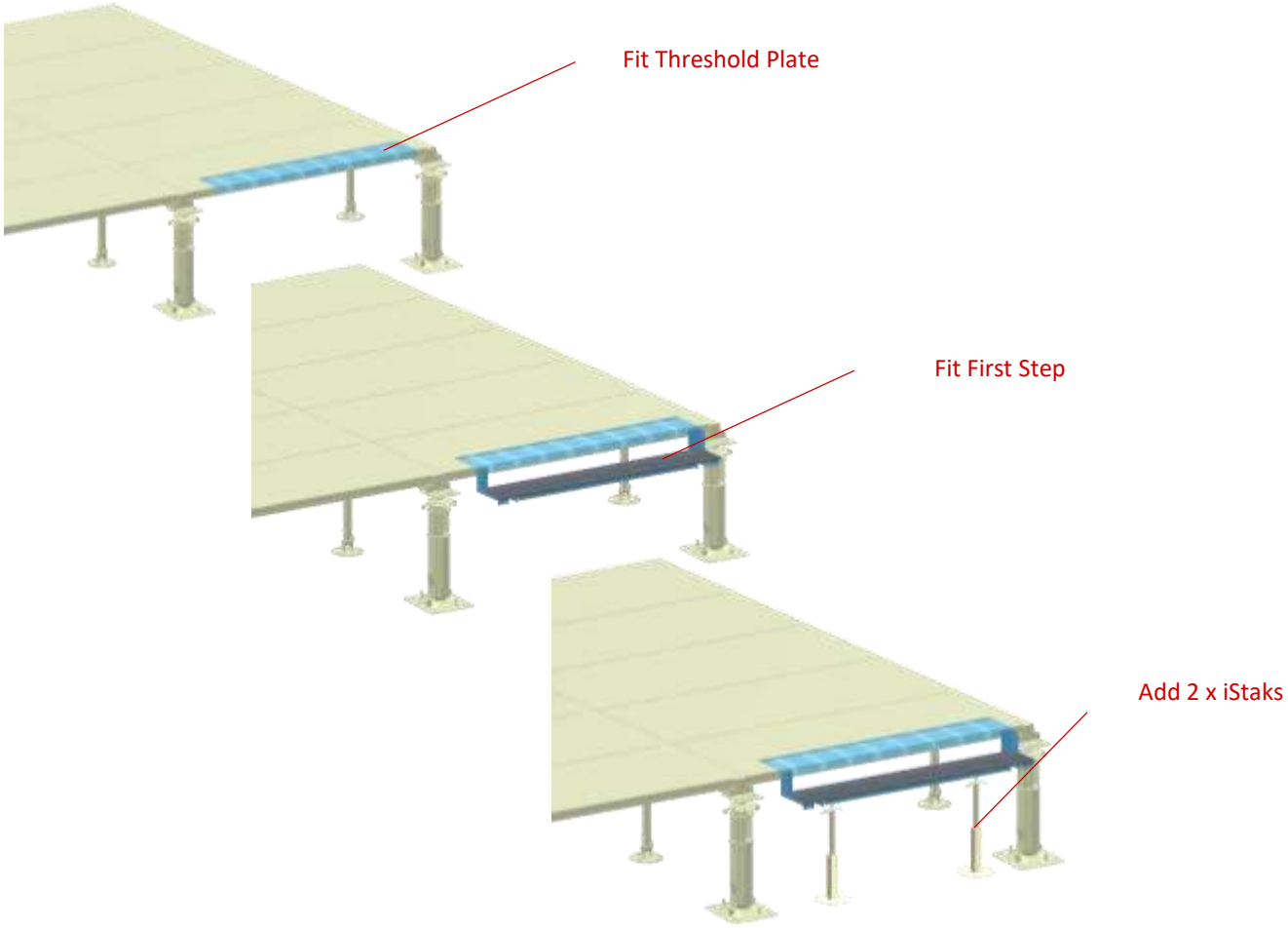
Construction - Steps	Steel Brackets and support spines, with Phenolic coated anti-slip treads, Aluminium nosings.
Construction - Handrails	Powder coated aluminium profiles with steel connector brackets.

Assembly	Bolts together with M10 Hex Head bolts (supplied) One spanner required (supplied). 2 x standard iStak units required under each alternate step.

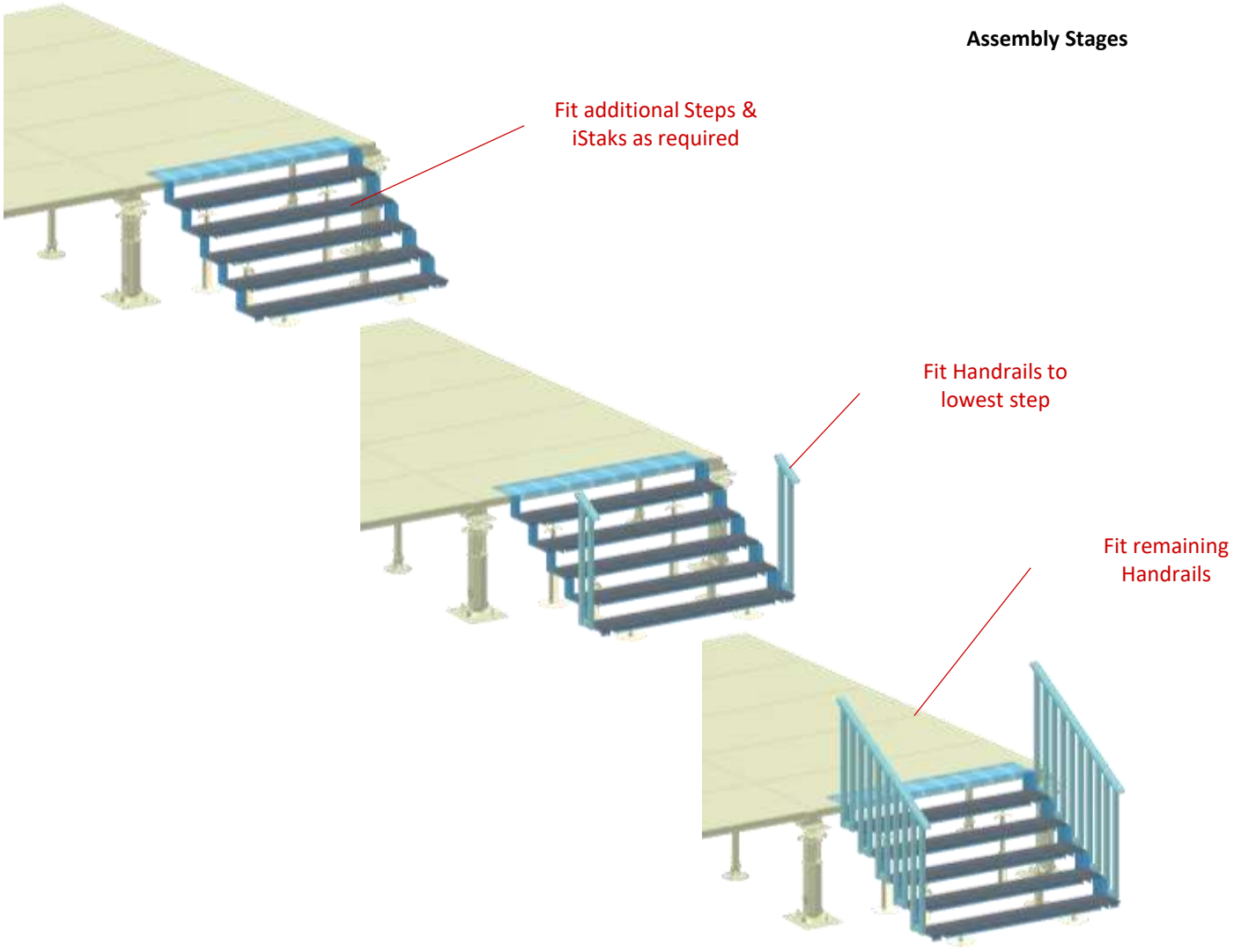




Assembly Stages



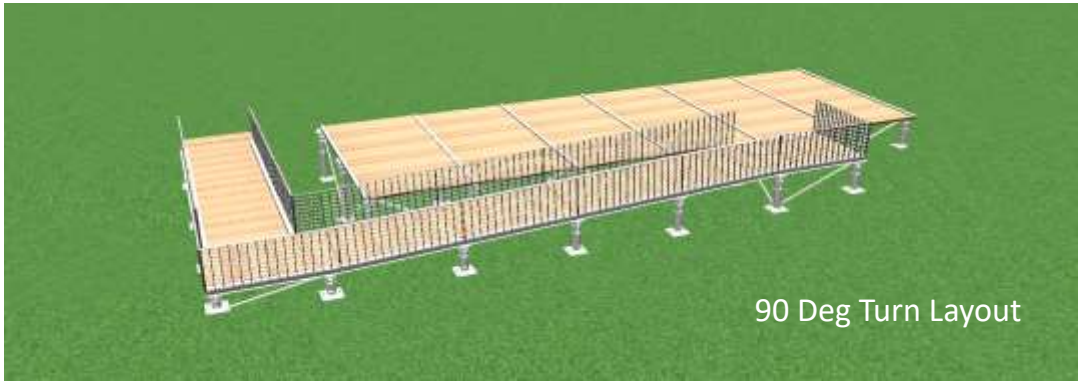
Assembly Stages

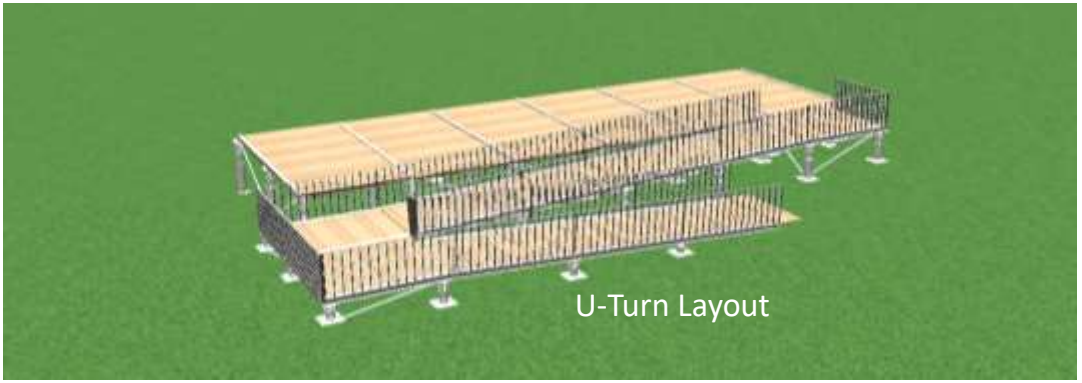


ACCESS RAMPS – DDA COMPLIANT

Benefits

- Satisfies UK Building Regulations Part M: Access and facilities for disabled people.
- Infinitely adjustable for heights up to 2 Metres.
- Straight, offset, 90°, or U-turn configurations.
- Quick and easy to install with no special tools.
- Utilises standard FloorStak support elements, so can be installed on sloping or uneven ground.
- Can be customised to work with any make of cassette floor system.
- A variety of handrail designs available.
- Attractively designed and finished to give a professional impression





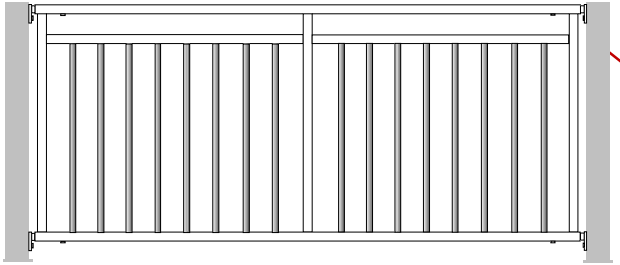
Technical Details

Gradient Options	1 in 12 to 1 in 20
Width	Various options to comply with regulations
Deck Material	18mm Birch Ply with Phenolic Anti-Slip and weather-resistant finish.

BALUSTRADING

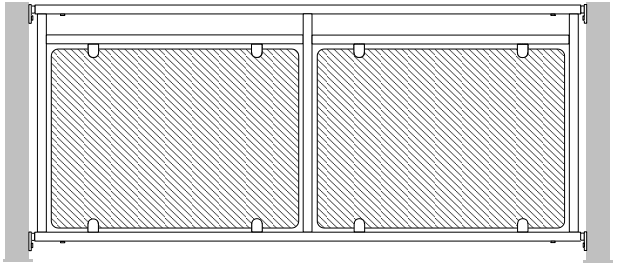
Benefits

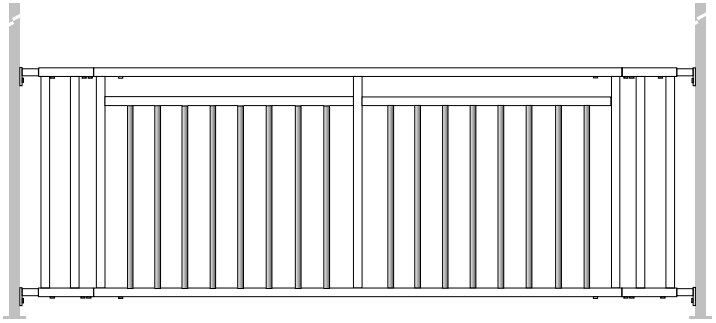
- Universal - fits both 3m structures and 5m structures
  - connects to structure frames or free standing posts
- Adjustable - Unique sliding connector allows for small variations in post & frame sizes and centres
- Can be supplied with glass (10mm toughened), solid panel, or vertical bar infills.
- Quick and easy to install with a single spanner



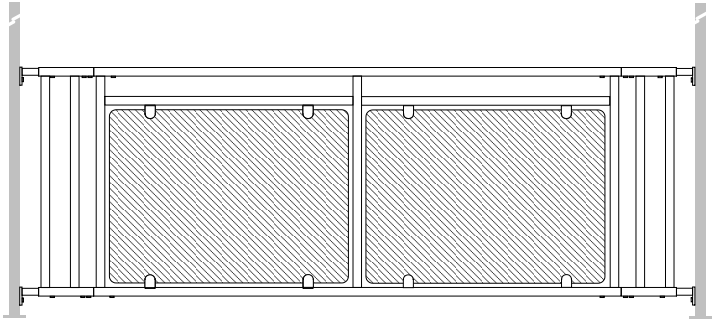
Works with free-standing posts or fits between structure legs

2.5 metre (nominal) Frames for 5 metre Structures





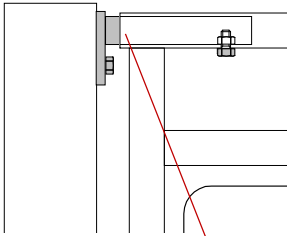
3 metre (nominal) Frames,
with Wing Frames attached



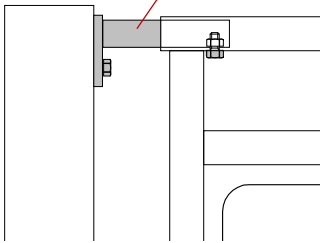
Technical Details

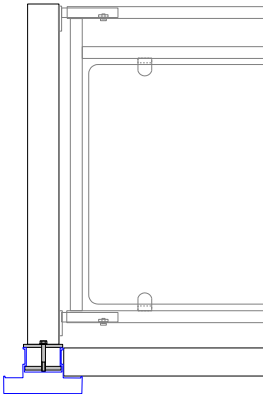
Height to handrail	1.1m
Resistance rating – at Top handrail	Up to 1.5 Kn/M2
Resistance rating – at infill	Subject to test
Construction	Welded Aluminium Profiles
Finish	Powder Coated
Width adjustment – 2.5m Nom (5 metre bays)	Min 2390mm – Max 2506mm
Width adjustment – 3m Nom (3 metre bays)	Min 2818mm – Max 2934mm
Assembly and Adjustment	M10 spanner (supplied)

Free-Standing Post for balustrades - Features

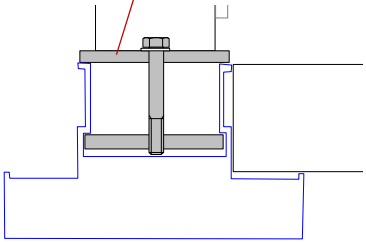


Attachment brackets with sliding adjustment to permit varying distances between posts and structure legs





Post attachments custom-made to fit Floor Sections



We would like to thank the following customers for granting permission to use photographs of their installations which appear in this brochure,

Company

Covered Occasions Ltd
Stopteltat Oy
Butlers Marquees
Joseph Benjamin Marquees
Harry the Hirer
Kataja Event Service Oy
Structural SA
EBB
Simon Florey Marquees
Organic Concept BV
Trekantens A/S
Showplace UK Ltd
Röder HTS Höcker GMBH
Tectonics UK Ltd
Liverpool FC
Wen's Phoenixx Corporation

facebook.com/floorstak

twitter.com/floorstak

+44 (0) 121 526 6060

info@floorstak.com

www.floorstak.com

Floor**Stak®** support and levelling systems, plus the associated Flooring, Sub-Floor, Access and Balustrading products have been designed to comply with the following standards and industry guidelines,

BS EN 13814:2004 / BS EN 13782:2005

Temporary demountable structures: Guidance on procurement, design and use (Fourth edition) 2017. (Published by the Institute of Structural Engineers)

Extensive product testing has been carried out both in-house and "in the field" and all designs and structural calculations have been verified by independent professional consulting engineers. Static load tests have been carried out by Lloyds British Testing and are fully certificated.

Patent No EP 2 434 071 applies.

Floor**Stak** is a registered trademark

Floor**Stak®** products are entirely designed and manufactured in the UK by,

The Regent Engineering Co. (Walsall) Ltd
Salisbury Street
Darlaston
West Midlands
WS10 8XB