

bluecube<sup>3</sup>

tech deck





## ***tech deck – modular decking***

### ***deck options***

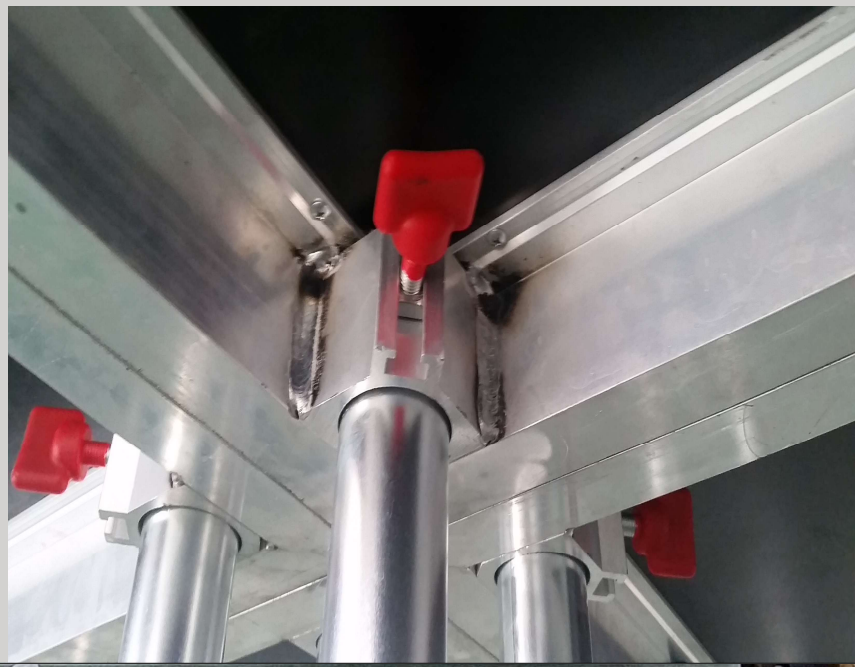


**tech deck** is a versatile demountable modular decking system which can be configured to build flat or multi-level platforms. Typical applications include;

- Stages
- Audience tiering
- DDA platforms
- Access platforms

**tech deck** can be specified for use in indoor or outdoor environments. A full range of accessory items are available including guardrails, steps and drapes. Modules can be supplied in either plywood with phenolic anti-slip finish to the topside or alternatively lightweight aluminum composite core boards with checker plate finish to meet class 0 fire code.

**tech deck** frames are constructed from aluminium profiles. Profiles are connected at each corner with a heavy duty aluminium leg receiving block that is fully welded into position. Legs simply 'plug' in to the receiving blocks and are secured by a heavy duty thumb screw.



## **tech deck – connections**

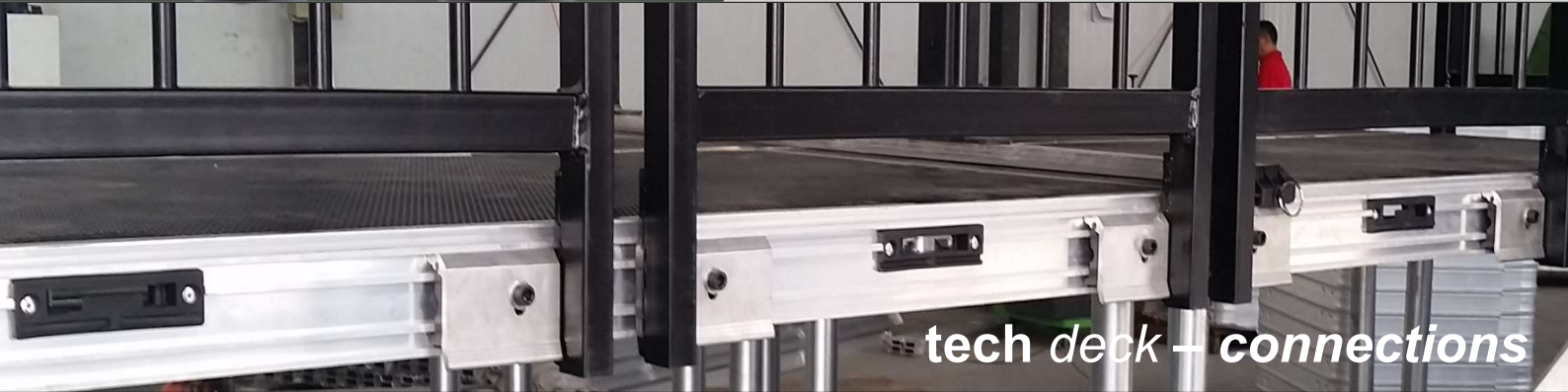


**tech deck** legs are manufactured from standard scaffold diameter steel tube, each leg is fitted with a heavy duty levelling glide. **tech deck** modules are connected to each other using a 'top side' [rotational locking system](#). Locks are positioned on each of the four sides and are activated using a standard 'Allen key' tool. Unlike other systems, **tech deck** modules are activated from the top side and there are no loose parts, so no crawling around underneath the platforms to join them together! Each rotational lock has an inbuilt safety checking system.





**tech deck** can be built up to 1.2m high without the need for leg bracing. When bracing is required, its as simple as connecting selected legs at random intervals with thumb screw clamp sets. Standard scaffold tube and fittings can also be used to add diagonal bracing. Guard rail connections are made at any point onto the extruded frame profiles. Our 'over centre' clamp system provides a rock solid connection with zero free play and no lose parts. [See video here](#)

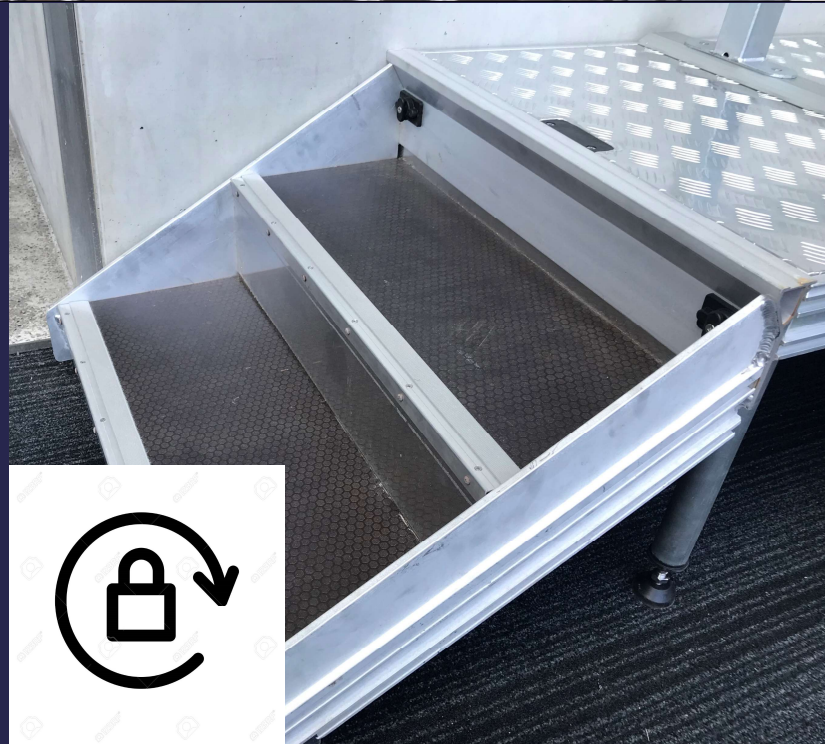


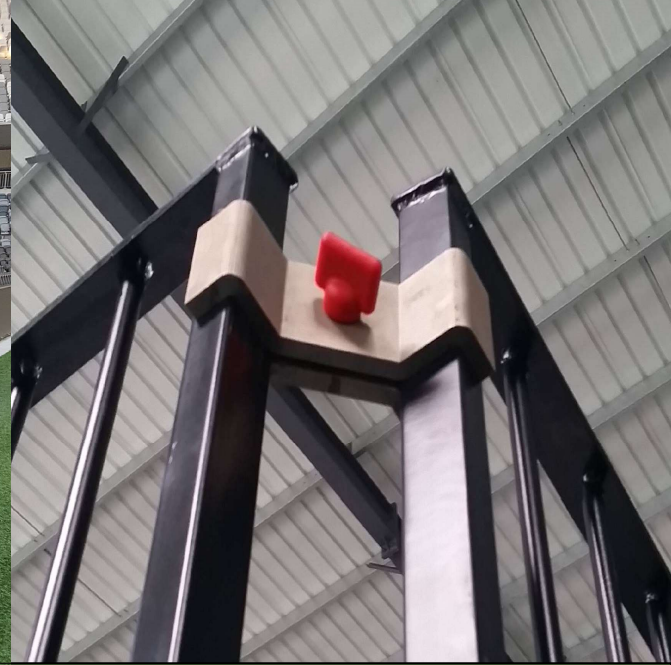
**tech deck + connections**

Step modules can be provided at any width or any height. Constructed from lightweight aluminium, the 'stringer' profile has the same extruded features as the **tech deck** frame profile allowing for the attachment of angled guard rails. Our standard extruded 'nosing' detail to the leading edge of each step are non slip and can be fitted with luminescent strips for added safety in low light.

Steps can be fitted at any position with an 'anti tamper' spring loaded twist lock.

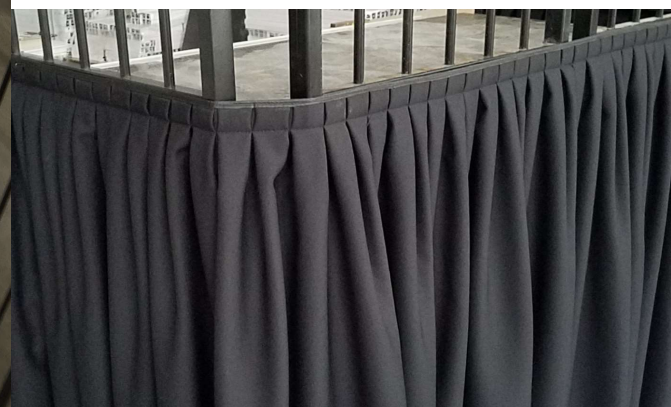
Large mobile step units are also available. Fitted with levelling castors and standard legs, mobile step units make the set up of otherwise cumbersome step units very easy.





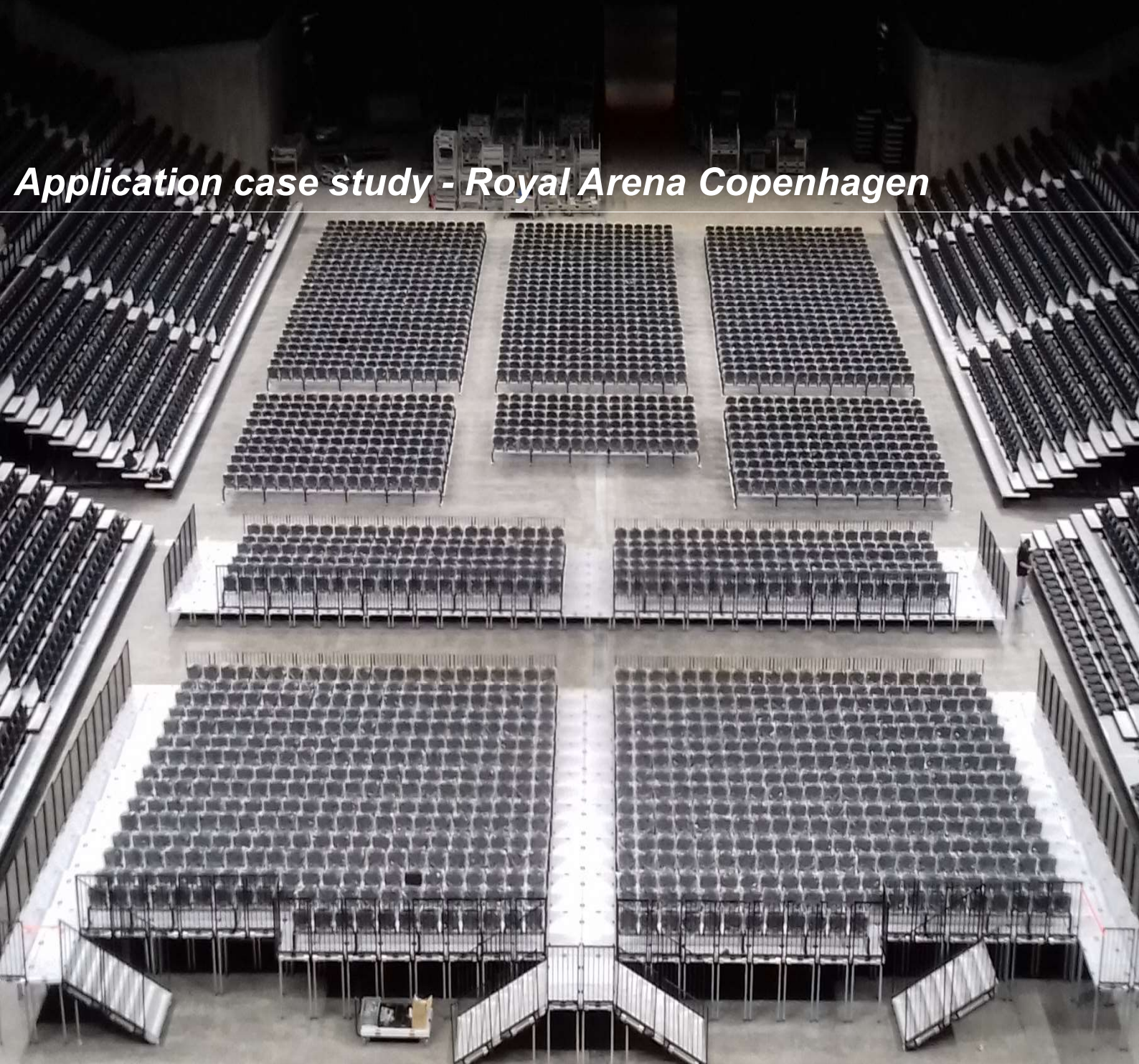
## *tech deck – step units*

**tech deck** can be adapted to almost any situation that requires an access platform. CAPO platforms are a typical example. A choice of fabric drapes or HPL panels can be attached to close the edges.





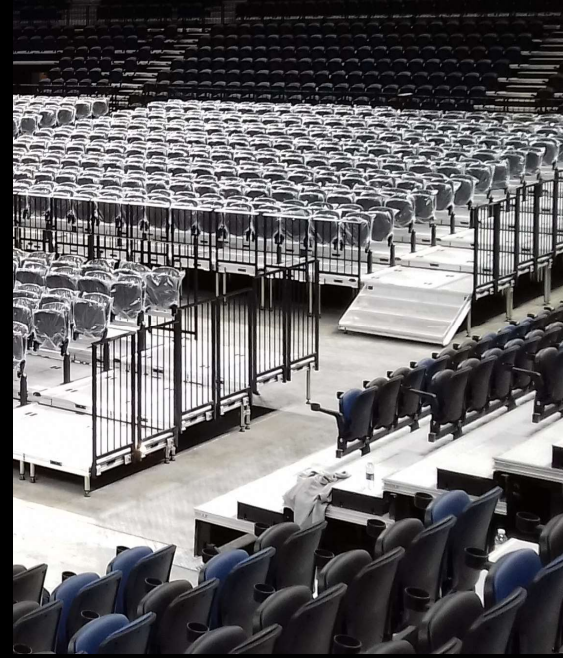
*Tech Deck storage*



*Application case study - Royal Arena Copenhagen*

When laid out with seating, sight lines become severely compromised at the rear of the event floor. Royal Arena used **tech deck** to elevate the last 20 rows, significantly maintaining ticket revenue which would otherwise have been reduced by restricted view seats. Seating on the flat floor is laid out using the bluecube **grid** system.

**tech deck** storage is extremely compact and efficient, deck modules stack onto mobile storage carts, guard rails are stored on mobile 'trees'.

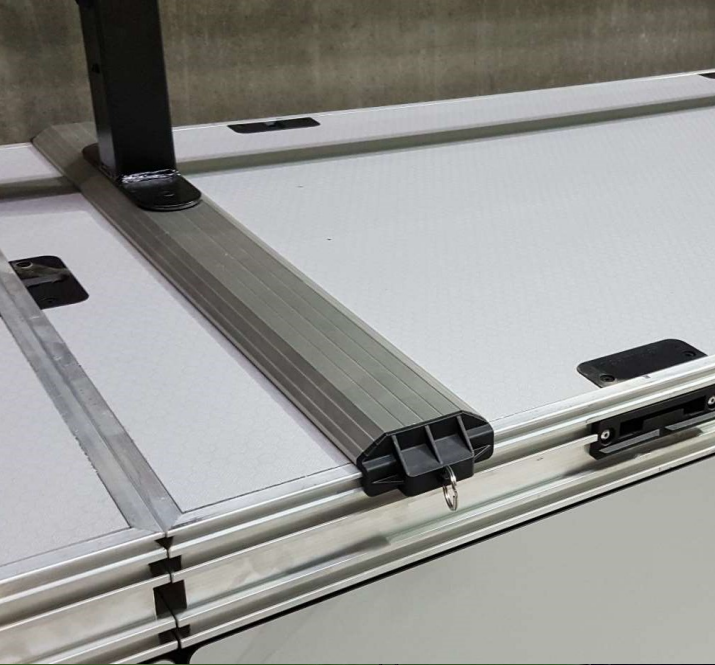


The Royal Arena in Copenhagen, Denmark illustrates the versatility of the **tech deck** system. Typical of many venues, the operators looked to maximize revenue. Achieving this meant ensuring their equipment could facilitate 'tailoring' the seating layout differently for the specific requirements of each event. Adding additional seating where possible and being able to remove / relocate them for the next event.

This idea is not new, arenas have always added seats in concert mode, principally by telescopic stands and the deployment of seating on the event floor using products like the bluecube **grid** system.

With build and operational costs escalating, every saleable seat means revenue gained or lost. In addition to this, regulations to improve access and increase allocation for patrons with disabilities at the point of sale can result in relatively large areas which are not sold. Thus the operators ability to convert a general admission bay into an easy access DDA platform and vice versa becomes a critical factor in optimizing revenue.

**tech deck** is the solution, providing facilities management teams with a versatile system specifically designed to be used in conjunction with bluecube flexible seating solutions like **fast latch** and **grid**, **tech deck** is backed up by seating innovation.



At Royal Arena Copenhagen, [grid](#) is used to provide space efficient tipping seats on the event floor. The [grid](#) system is compatible with **tech deck**. The frame profiles allow the [grid](#) 'sleds' to be clipped securely into position preventing any movement of the seating rows. Sleds are simply removed by pulling the spring loaded locking pins



***tech deck – revenue conversions***



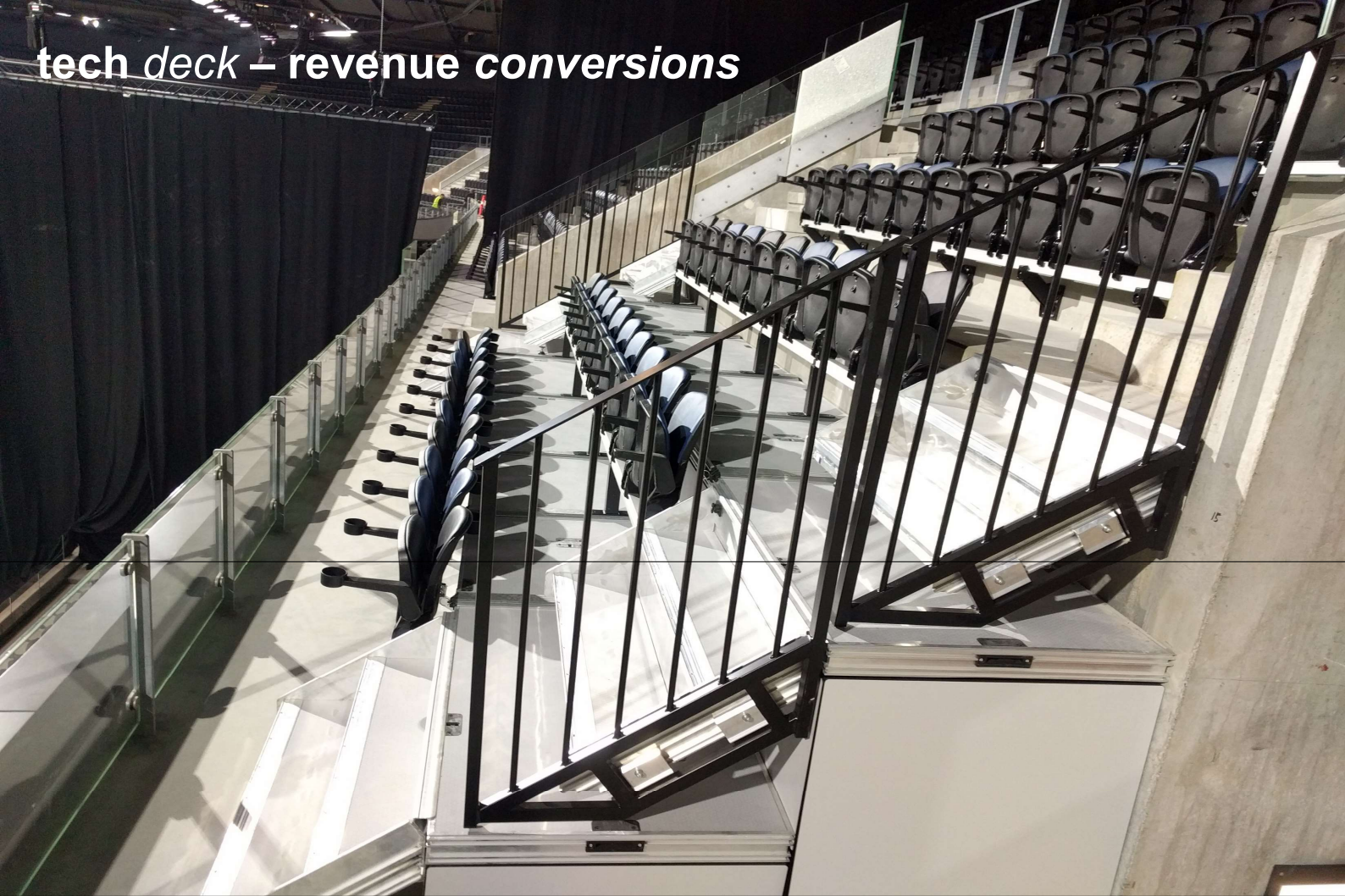
**desks OR seating**

**tech deck** can be used to quickly and easily 'convert' any area to seating mode which would otherwise be dedicated solely to another use. We call this a 'revenue conversation'.

At Tottenham Hotspur's new stadium, the requirement for temporary overlay press areas (which require double row spacing) can be infilled with **tech deck** conversion platforms after the temporary media desks are removed. All [bluecube](#) systems are specifically designed to work together.



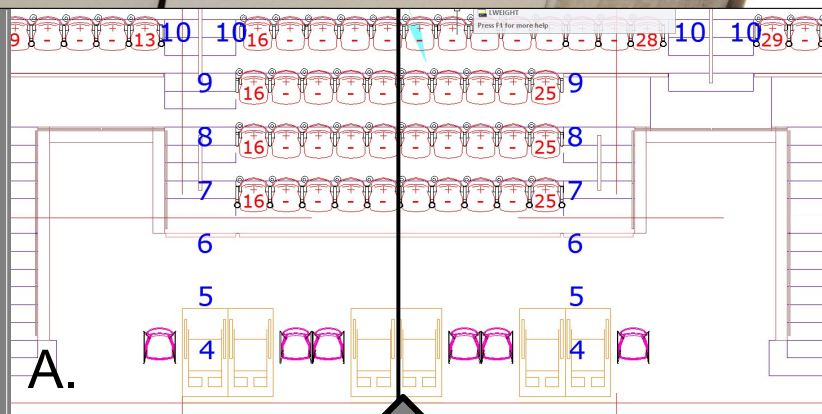
# tech deck – revenue conversions



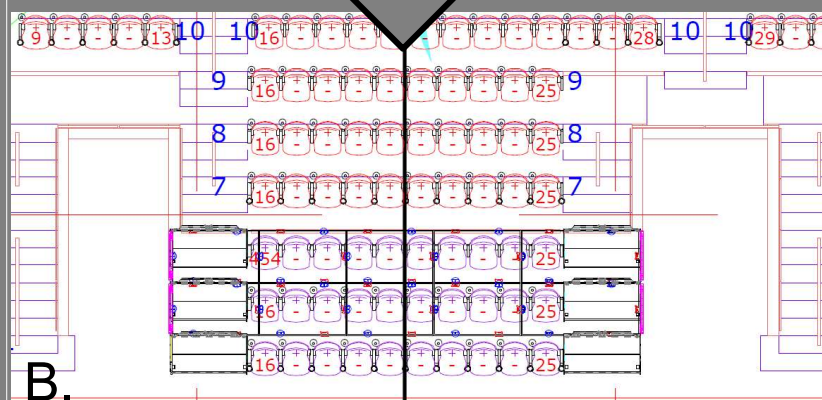
At Royal Arena Copenhagen, seating revenue can be optimized using **tech deck**; DDA areas that are not sold can be quickly and easily converted to general admission seating generating additional revenue.

Option A. – the area between the vomitory's is set up for DDA event requirement – 6 wheel chair spaces – 6 companion spaces.

Option B. – the same area set up for general admission seats using **tech deck**. The area provides an additional 30 seats!



DDA OR Seating



Certain events at Royal Arena require rear row egress, others not; **tech deck** is used to capitalise on the opportunity! The rear rows are quickly converted, appropriate size legs elevate the platform to the correct height, modules are butted together, rotational locks deployed and step units added to ends. [grid](#) seat sleds are used to securely position [centura](#) seats.



## **tech deck – revenue conversions**



At SSE Arena in Belfast, areas of a wide mid level concourse are converted, adding an additional row of GA seating in several locations around the perimeter.

Neatly finished with HPL (high pressure laminate) side panels means no access to the underside, essential for both cleaning and security.



DDA platforms are simple and easy to build. **tech deck** is secured to the building 'super riser' by using a devise we call a 'croc-lock'. This system enables the units to be secured or released in seconds from the surface of the deck. Guardrails can be of any style and require no lose fixings, the guardrails are also compatible with our telescopic platforms.



## ***tech deck – outdoor DDA***

**teck deck** can be manufactured to fit any layout, rectangular deck modules are combined with custom shaped modules to make up angled layouts or even more complex infills. Tipping companion seats are also easily fitted, as [bluecube](#) application engineers design each deck with suitable underside supports and fit threaded inserts to deck panels.





**tech deck** DDA platforms can be supplied with a custom guardrail style to suit every venue. In this example we were asked to match other bowl barrier rails in safety glass, no problem!

They are locked into position flush with the riser and are fitted with a low profile threshold strip if required.

## **tech deck – indoor DDA**





## Strength and Durability

All systems have been designed in accordance with the following British Standards, Codes of Practice and guidance publications:

- BS 8118: Part 1 – Structural use of Aluminium
- BS 5950: Part 1 – Structural use of Steelwork in Building
- BS 6399: Part 1 – Loadings for Buildings ( Dead and Imposed Loads)
- IstructE- Temporary demountable structures (guidance on procurement, design and use) April 2007
- SGSA Guide to safety at sports grounds (the green guide)

All components are manufactured to the following standards:

- Welding to BS EN ISO 15614-12-2014 (weld penetration checks)
- Hot Dip Galvanising to ISO 1461 (elcometer thickness tests)
- Powder Coating to ASTM D-3359-02 (scratch test)