



Black T Switch

Black T Switch is an award-winning, multi-use flooring system that transforms a rigid theatre floor into a high-performance dance floor at the touch of a button. Designed for multi-purpose venues, it enables performance spaces to accommodate both dance and theatrical productions without compromise.

Ideal for theatres, rehearsal rooms, studios, and performance venues, Black T Switch eliminates the need for separate flooring systems, allowing operators to maximise the use of their space while meeting the specific requirements of different art forms.

Black T Switch system is a modular flooring system comprising a robust base unit that houses the drive mechanisms and control systems, topped with a specially engineered sprung floor panel system. With a simple one-touch operation, the floor can switch between sprung and rigid modes in under a minute, depending on the size of the installation.

Key Features & Benefits

- ✓ **Rapid transformation** – Change from sprung to rigid mode in less than one minute.
- ✓ **Simple operation** – Controlled via an intuitive hard-wired master control unit.
- ✓ **Flexible integration** – Compatible with most stage control systems and building management systems.
- ✓ **Maximise venue utilisation** – Support multiple performance types within the same space.
- ✓ **Eliminate storage requirements** – No need for separate sprung or rigid floor systems.
- ✓ **Zoned functionality** – Create sprung and rigid areas within the same floor where required.
- ✓ **Energy efficient** – No power is required to maintain the selected floor mode.
- ✓ **Highly adaptable** – Modular design can be configured to suit a wide range of structural and architectural requirements.
- ✓ **Customisable solutions** – Supplied as a standard three-track system, with bespoke configurations available to meet specific load capacities and space constraints.
- ✓ **Integrated stage technology** – Can be designed to incorporate stage lifts, traps, revolves, and other specialist features.





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Designed for Performance

Whether supporting the impact absorption required by dancers or the stability demanded by theatrical productions and scenery, Black T Switch delivers the right floor performance exactly when it is needed. By combining two specialist flooring systems into one intelligent solution, venues can increase flexibility, reduce operational complexity, and make the most of every square metre of performance space.

The initial cost of constructing a stage incorporating Black T Switch is broadly comparable to the cost of constructing a standard stage with a portable sprung floor, but there are many operational and financial advantages to specifying Black T Switch over the lifetime of the floor.

Time Savings and Scheduling Flexibility

Black T Switch saves time. It can take four people working up to a full day to lay and remove a portable dance floor. Black T Switch achieves the same transition in less than a minute.

This allows the same performance space to alternate smoothly between dance and theatre. For example, it provides major scheduling relief in multi-use teaching spaces or touring venues executing tight daily turnovers.

Reduction in Crew Costs

With time saving, there is the associated saving on the crew costs.

In a theatre with regular dance activity, the savings in crew costs can be dramatic. A typical portable dance floor can take four people a full day to install and remove. Assuming a weekly change, 50 turnarounds per year would equal a total of 200 days in crew costs. With Black T Switch, this time is reduced to just 50 minutes over the course of the entire year.

More Efficient Use of Space

Eliminating the need for a second floor also results in a considerable reduction in building space required. Portable dance floors require scarce venue space for panel and transport cart storage. Combining fixed stage flooring and a sprung dance floor into a single installation frees up valuable floor area and potentially reduces the square footage required in new builds.

Improved Sustainability

As a result of these many savings Black T Switch is a highly sustainable product.

It consumes fewer natural resources than a stage plus a portable dance floor. A portable dance floor placed on top of a stage floor duplicates several construction layers. The Black T Switch stage flooring system uses the same structure for both dance and theatre functions. In a new building, the Black T Switch floor can be constructed directly onto the stage joists or slab, resulting in a considerable reduction in required materials.

Dedicated storage space for portable sprung floor panels is unnecessary, removing the environmental impact of building or maintaining additional rooms. Additionally, significant savings in time and manpower reduce costs and energy use during unproductive downtime.

Black T Switch Delivers a Significant Reduction in Lifetime Costs

The expected lifespan of Black T Switch is 20 years. While the capital cost per square metre of Black T Switch is comparable to a fixed stage with a portable dance floor, eliminating the recurring labour and operational costs of a temporary floor makes it significantly more cost-effective over its lifetime.



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Technical Specifications

Load Rating Rigid Theatre Mode

Point Load	>3.6kN
Distributed Load	>30kN/m ²

Performance Sprung Dance Mode

Point Load	>3.6kN
Distributed Load	>10kN/m ²
Shock Absorption	67%
Vertical Deformation	4.1mm
Area Deflection	12.8%

Total Panel Weight	82kg/28.5kg m ²
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Size

Panel Length	2400mm
Panel Width	1200mm
Minimum Floor Height	89mm (excluding performance surface)

Fire Rating	Bfls 1 to EN 13501
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Impact Generated Sound Level within Room (ΔL_w)	104.20DB
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Thermal Resistance

- R Value	1.52 m ² K/W
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Thermal Insulation

- U Value	0.658W/m ² K
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Category of Use

A4

VOC Emissions

<0.10 mg/m³

Warranty System

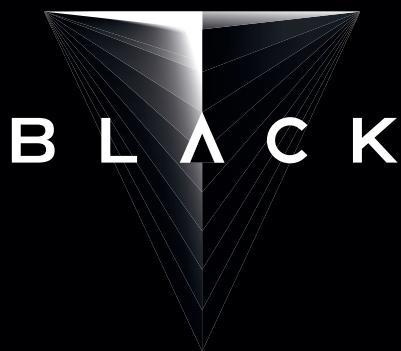
10 years, electrical components 1 year

Installation

Installed by Black T's technical team

Patents

UK	GB2592382
USA	US 11,649,646 B2
Australia	2021227418
International	WO2021/170970



Precision engineered performance

The future of stage building starts here

Black T design, engineer and install next-generation stage flooring systems for the world's most demanding performance spaces. It is our single focus, and our specialists have few equals.

The name is new. The reputations behind it are not. We bring decades of experience working alongside the biggest names in stage flooring, in theatres and opera houses across Europe, the United States, Australia and Asia.

We work globally, but every relationship is personal. We understand our clients' needs because we are part of their world, combining technical precision, practical insight and a passion for performance in every project we take on.

Black T designs, manufactures and installs high performance stage flooring systems. Every system is designed using advanced CAD software and precision manufactured off-site, reducing the number of components, simplifying installation and ensuring exceptional quality and accuracy.

This approach significantly reduces installation time, minimises disruption, lowers project risk and helps avoid costly downtime.

Black T delivers fully integrated turnkey solutions tailored to the specific requirements of each venue. Working closely with architects, consultants, principal contractors and venue operators, we provide expert advice and technical support throughout every stage of the project.

The result is a stage floor engineered to deliver exceptional durability, reliable long-term performance and the flexibility to meet the evolving demands of today's performance spaces.



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