



Stage Safety Edge - for - Artistes & Crew - Performance & Fit-Up

EDGE-SAFE[®]

STAGE SAFETY EDGE

Possibly the biggest advancement in stage safety in over a hundred years



ABTT Widget of the year award



Technical

Materials - Durable Synthetic Rubber (Black BS4255 Class C1) with aluminium based Visible Strips as described below:-

Visible Strips

- Reflective / Photo Luminescent – alternating 25 cm sections
 - Reflective sections illuminate the stage edge from reflected overhead lighting
 - Photo Luminescent sections absorb light energy from overhead lighting and provide discreet and effective illumination during dark scenes.
- Non-Reflective White – 1m sections
 - Bright white strips provide an effective solution to visible edge indication where overhead lighting is limited – such as schools and village halls.
- Construction – Visible strips are constructed from aluminium, layered with Reflective or Non-Reflective materials and finished with a “Scuff Resistant” coating which protects the strips and provides for easy cleaning.

Fixings

- Recommended:-
 - Visible Strips - Screws - Pan head crosshead 4mm x 40mm
 - Stage Fixing - Screws - Pan head crosshead 4mm x 40mm together with M6 Washers.Edge-Safe can be effective without stage fixing but stage fixing is recommended.

Dimensions

- Standard Width 1m
- Maximum height 5cm
- Depth 20cm

Weight – Approx 8kg – easily portable as 1 or 2 sections.

Patents

- UK: GB 2448742
- USA: US 7,625,096 B2

Rennicks (UK) Ltd

Clearly better products

With over 25 years of experience, Rennicks UK provide a comprehensive range of high quality materials backed by technical expertise and pride ourselves on adding value through an unrivalled knowledge of the market and fully compliant products.

The Nikkalite® brand of Ultralite glass bead and Crystal Grade microprismatic sheeting along with Hi-S Cal® non-reflective, Dewtect, dew-resistant and anti-graffiti protective overlay films, emergency services and Chapter 8 vehicle conspicuity materials have all earned us a reputation for quality, innovation and reliability.

Rennicks - providing choice and clarity for all our clients

Nikkalite® Ultralite Glass Bead 800 Series (ULS) RA2

Description

Ultralite's encapsulated glass bead design provides excellent retroreflectivity at all angles both day and night.

The material has a highly transparent plastic film offering a very flat and smooth top surface which is very tough and durable whilst delivering highly visible signs and markings.

23 January 2013
Karen Jervis, Marketing Manager

Rennicks (UK) Ltd Stuart Road, Manor Park, Runcorn, Cheshire, WA7 1TS



In the early part of the 21st century Nufox Rubber Ltd., as part of its continual investment and improvement programme, acquired the extrusion division of Dunlop GRG in Manchester. Along with the personnel experience acquired, was the diversity and knowledge of complex extrusions and rubber fabrications, which were developed over many years. Additional to this was the use of the world renown 'Flying D' Logo with the quality associated with the brand in the area of rubber extruded products and the 'Intellectual Property Right' which goes with it.



DUNLOP EXTRUSIONS

Other Opportunities To Use Edge-Safe

Trucks



Loading Bays



Festival Stages



Award Ceremonies



The Background

Edge-Safe is a revolutionary safety product that improves the safety of working on and off the stage. If you are responsible for the safety of a theatre stage or raised performance platform you will love Edge-Safe and the huge benefits it offers.

Stages can be complex places and bring particular hazards at the front edge, especially during performance and fit up. Since the removal of footlights from most stages over 100 years ago, it's now best practice to apply a thin white line to the front edge. Although this may seem like a practical stage solution, it brings with it stage safety risks such as:

- Little visual indication of the front edge of stage or platform
- No visual indication during dark scenes
- No physical barrier to moving objects

The Design - The Product

- **Indicates** the front edge of stage or platform on-stage whilst remaining discreet to the audience. A white line on stage is no longer required. The audience view is of a clean black-lined profile to the front edge of stage.
- **Enables** Performers and Crew to visibly identify the front edge of stage at all times from an "edge of light". Greatly increases the reassurance of safety and security to Performers and Crew operating on stage enhancing confidence to all with movement over the stage or platform area. The Reflective strip features alternating photo luminescent sections which identify the stage edge in dark scenes by glowing pale green.
- **Provides** a physical barrier through impact resistance to objects such as flight cases or telescopes from accidentally rolling off stage and resulting in property damage and/or possible injury or death to persons below. Edge-Safe does not warrant the ability to resist all types of objects from falling from the front edge of stage under all possible conditions but Edge-Safe does warrant to greatly reduce the occurrence or severity of these hazards.
- **Creates** a physical barrier for Performers or Crew to feel and react as they reach the front edge of stage.

Performers & Audience

- Enhanced protection to Performers and Audience reducing the incidence of Performers or Objects falling from height during performance.
- No visible white line on stage to affect audience experience.
- Discreet to audience view and provides a clean black line to the front edge of stage.

Crew & Fit-Up

- Enhanced protection to crew from falling from height due to the visible and physical features of Edge-Safe.
- Impact resistant barrier provided by Edge-Safe resists objects such as flight cases from accidentally rolling off stage during fit-up.
- Easily portable and can be simply moved and stored for different stage configurations.



Theatres are dangerous places; cramped, often old buildings; tight schedules, exuberance and excitement; working near vertical drops without the guard-rails or fencing that are ubiquitous almost everywhere else that people work at height. These factors create as diverse a combination of risks as you'll find anywhere.

Of course, you know this. You assess risk systematically – after all, there's a legal obligation to do so. You record the results in writing. You bring in consultants and you review and update those risk assessments. You train your team, and you brief incoming performers.

But still you worry about that “one-in-a-million” combination of circumstances, that momentary lapse in concentration or judgement, or that one thing you hadn't thought of that leads to a serious accident. Whether it's just costly and embarrassing or life-changing or fatal, you're going to be wondering what you could have done to have prevented it.

How will you feel:

- When a theatre critic singles out the “ugly” safety net that you installed across the orchestra pit, or when it proves unpopular with the audience and the musicians?
- When you lose two nights of performances because the grand piano for a chamber quartet rolls off the front edge of the stage, destroying itself and damaging the stage and some of the seating?
- When a flight case, being used to bring equipment onto the stage during fit up, rolls off the stage and badly injures a crew member working in the orchestra pit.
- When the lead singer of a legendary 1960s rock group falls from the stage, having been dazzled by the lights and special effects and not having seen the thin tape on the front edge?
- When a rising young singer in musicals, required to move to the front of the stage in darkness before starting a number, misjudges the distance and falls from the stage, breaking her jaw – and never being able to sing professionally again?
- When a schoolgirl from your local primary school falls from the stage during your Christmas panto, breaking her neck?

What will be running through your head in the early hours of the morning after damning coverage in the local press? When your legal advisors point out the possibility of corporate manslaughter and of personal liability? As you wait for the judgement of the H.S.E. investigation team?

What will you do when your excellent stage manager takes early retirement because he just can't face the possibility of something like that happening again?

And how will you feel knowing that for just a few thousand pounds you might have prevented any of these mishaps – or tragedies – with Edge-Safe?

Testimonials

Assembly Hall Theatre, Royal Tunbridge Wells, Kent

"We have worked with Edge-Safe on developing this product from original concept to implementation. Edge-Safe has been installed at the theatre for over two years and has already successfully prevented accidents. This should be an essential part of every venues safety management system."

Brian McAteer, Theatre Director.

LVS Ascot

Edge-Safe has recently been installed at LVS Ascot which is a co-educational Day & Boarding School for young people aged 4 – 18.

Case Study

Community Theatre



Ellis Ginn, Managing Director of Edge-Safe Ltd, is delighted to announce that Edge-Safe has been selected by The Grace Eyre centre, Hove, for its beautiful new theatre conversion within a converted former church and especially dedicated to the needs of young people with special needs and disability.

The new theatre has a small stage just three metres wide at front and a small front of edge drop of approx 0.5m.

For actors in wheelchairs, especially with restricted movement, even a such a small vertical drop represents a horrible and significant hazard.

Edge-Safe were delighted to supply the venue with sufficient Edge-Safe strips to protect the front edge of the stage. Edge-Safe was originally conceived as a way to counter the danger to Performers/Crew of the front edge of stage and of stopping wheeled items rolling off the front of stages such as flight cases and tallescopes.

Edge-Safe is delighted and privileged to contribute towards the performance and safety of special needs and wheelchair artistes too.





**HEALTH & SAFETY
Risk Assessment**



Activity Working or performing on a stage or raised platform with one or more open edges

Description of operation
Working on a stage or raised platform with one or more open edges, for any reason, to include: during get-in, fit-up, rehearsal, performance and get out.

Who is affected by this operation?
 Employees Contractors Customer Public Young people Pregnant Women

Description of hazards & possible consequences	Likelihood	Severity	Risk Factor	Risk (before precautions have been taken)
1) Injury caused by falling off un-protected open edge	3	5	15	Medium
2) Injury caused by object falling from un-protected open edge	3	6	18	HIGH

Recommended precautions

- 1) Install low profile, physical and visual edge marking that doesn't detract from a performance, ensuring the edge can be seen from on stage in any lighting conditions including black out
- 2) Install low profile, physical and visual edge barrier that doesn't detract from a performance, ensuring that it can eliminate or reduce the chance of any object or person falling from the open edge.

Description of hazards & possible consequences	Likelihood	Severity	Risk Factor	Risk (after precautions have been taken)
1) Injury caused by falling off open edge	1	5	5	Low
2) Injury caused by object falling from open edge	1	6	6	Low

Details of further action required

- 1) Ensure Employees read the Risk Assessment. (Employee Read Risk Assessment records to be retained in Departmental Risk Assessment File)
- 2) Review on an annual basis. (Reviewed Assessments to be recorded in the Master Risk Assessment File.)
- 3) Re-assess the activity if an accident, near miss or change in operation takes place.

Assessed by		Position		Signed		Date	
--------------------	--	-----------------	--	---------------	--	-------------	--

Signed Managing Director		Print name		Date	
---------------------------------	--	-------------------	--	-------------	--

Multiply Probability x Severity to obtain Risk Factor

Risk Assessment

Probability	1 Very unlikely	2 Unlikely	3 May occur	4 Likely	5 Very likely	6 Will occur
Severity	1 Very minor injury	2 Minor injury	3 Lost time to injury	4 Major injury	5 Single fatality	6 Multiple fatality

Risk Factor 0-6 Low Risk factor above 6 Improve if possible	Risk Factor 7-17 Medium Risk factor above 12 Further action required	Risk Factor 18-36 High Immediate action required
-------------------------------------------------------------------	----------------------------------------------------------------------------	-----------------------------------------------------



The working at Height Regulations come under the umbrella of the Health and Safety at Work Act 1974 and as such there is a legal requirement to comply.

In 2005 / 2006 Falling from height resulted in nearly 3,500 SERIOUS INJURIES and 46 FATAL accidents at work.

Falling from height remains the single biggest cause of workplace deaths and major injuries.

A place is considered "at height" if a person could be injured falling from it, even if it is at or below ground level.

"Work" includes moving around a place of work (whether you are working or not).

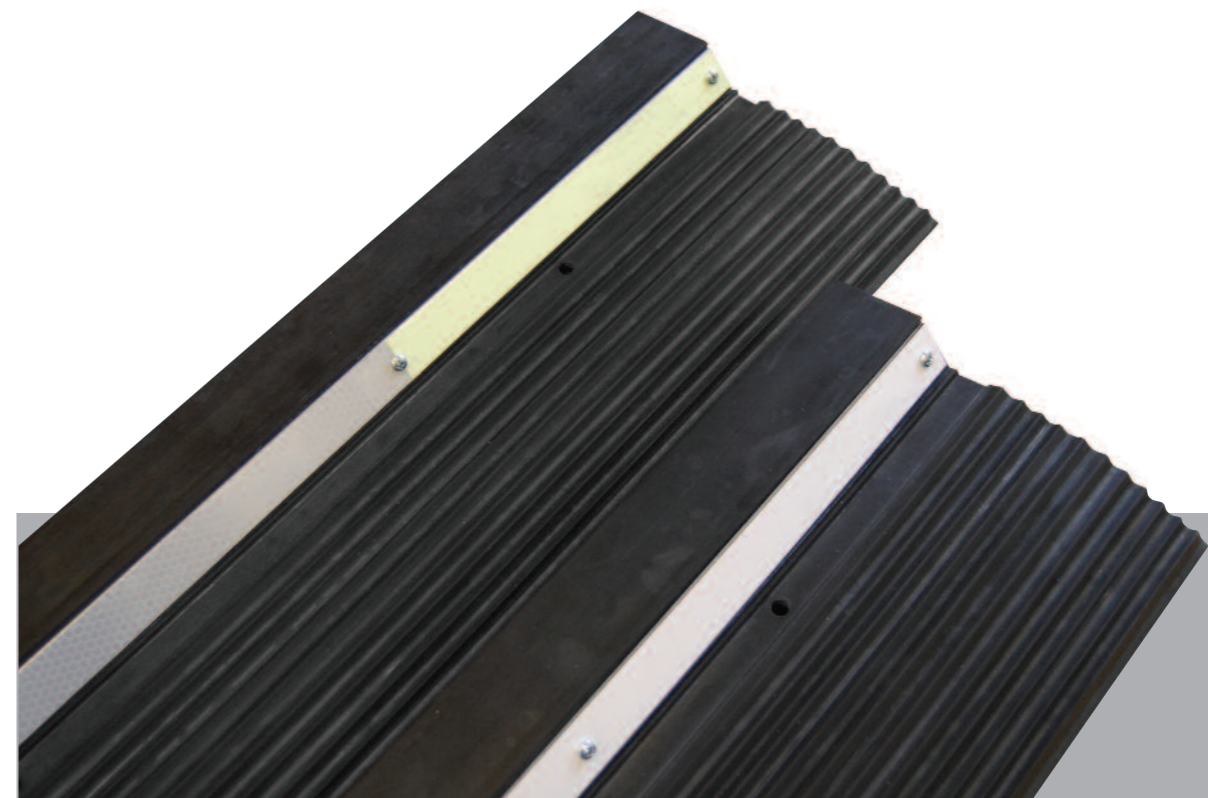
The regulations require that:

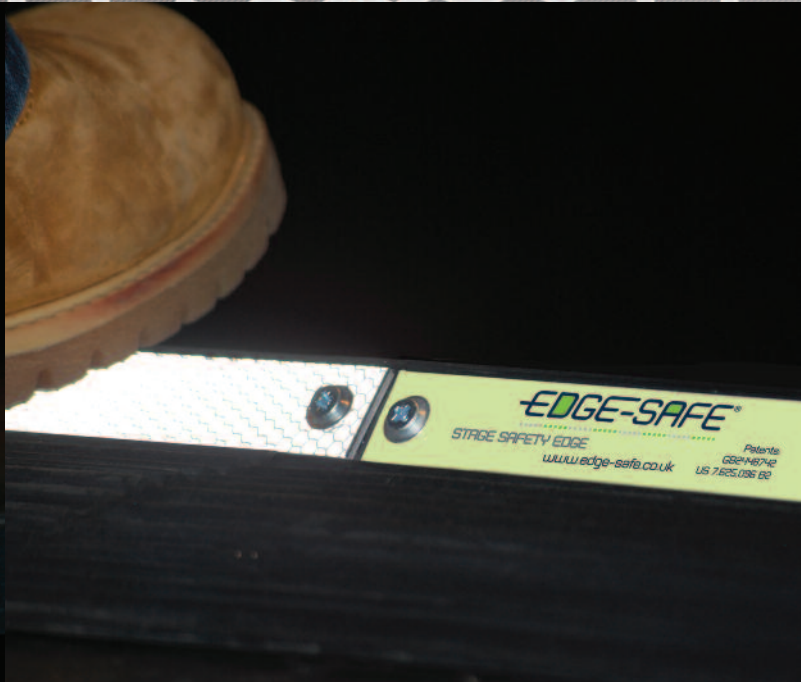
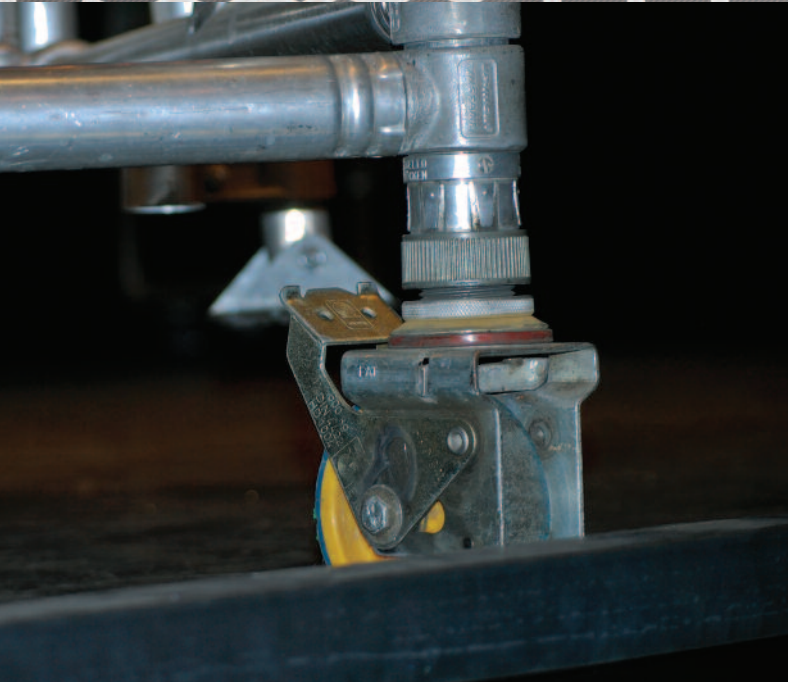
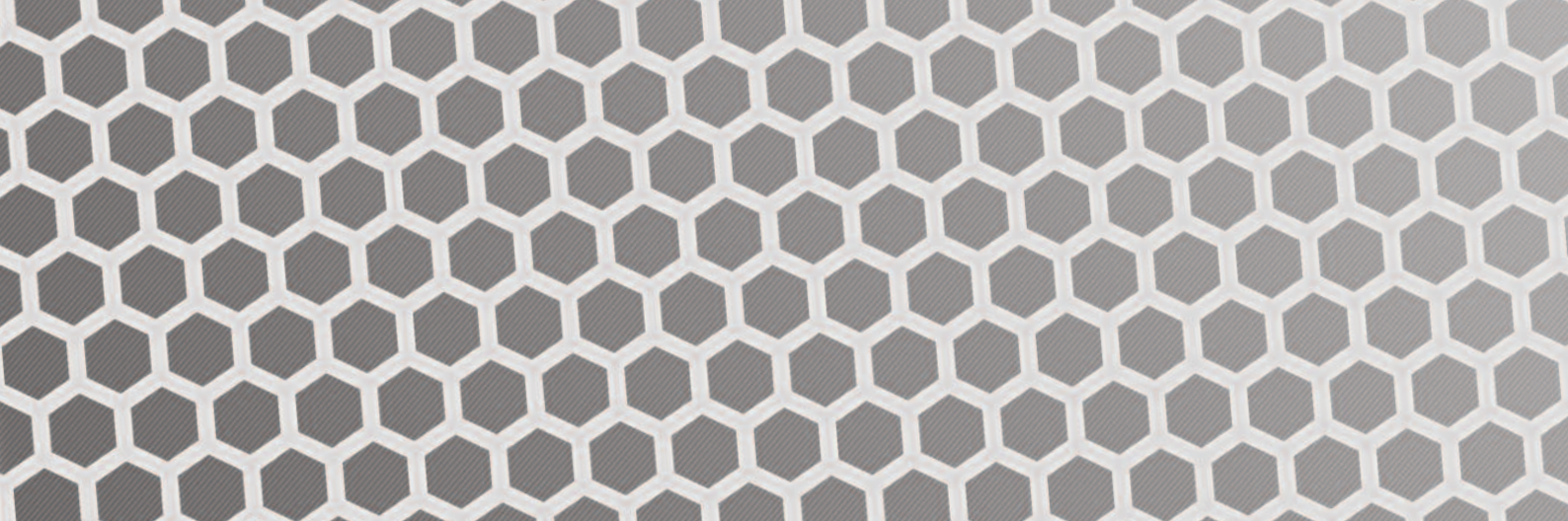
- An employer must do all that is reasonably practicable to prevent anyone falling.
- A duty holder must ensure the place where work at height is done is safe and the risk from falling objects are properly controlled.

You **MUST** ensure that the place where work is done at height is safe and has features to prevent a fall.

The regulations also state that you MUST:

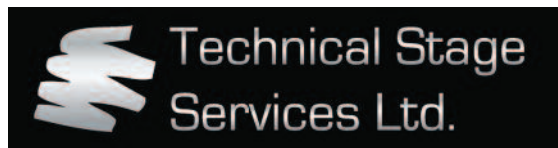
Use work equipment or other measures to prevent falls where working at height is unavoidable.





If you would like to find out more about our product take a look at our website:
www.edge-safe.co.uk

United Kingdom - Republic of Ireland Exclusive Sales & Distribution



Technical Stage Services Limited
Unit 19 Seafox Court
Cosmic Park • Sherburn in Elmet
Leeds • LS25 6PL
T: 08450 941385
E: enquiries@technicalstageservices.co.uk



Registered Office: Edge-Safe Ltd.
"Chilterns" • 143 Mid Street • South Nutfield • Surrey • RH1 5RP