



Safe-T-Punch™

www.safe-t-punch.co.za

CASE STUDY 1

Safe-T-Punch™ Emergency Exit Device

OEM Adoption and Independent Validation under UNECE R107

Background

Emergency egress from buses fitted with R43 toughened safety glass has historically relied on portable hammers or kick-out windows, both of which present reliability and accessibility challenges in high-stress or submerged scenarios.

Safe-T-Punch™ was developed as a permanently installed emergency glass-breakage device, designed to deliver a guaranteed breakage outcome independent of passenger strength or loose tools.

Application

- Vehicle Type: Urban and low-floor buses
- Operating Environment: Public transport fleets (UK & Europe)
- Regulatory Framework:
 - UNECE R107 – Emergency exits and escape hatches
 - UNECE R43 – Toughened safety glass

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Independent Testing & Validation

Safe-T-Punch™ was subjected to independent performance testing by Wintech, a UKAS-accredited testing laboratory, to validate glass-breakage performance on toughened safety glass under controlled conditions.

Testing confirmed the device's ability to reliably shatter R43 toughened glass within the force range available to passengers.

OEM Implementation

Safe-T-Punch™ was adopted by Wrightbus (UK) and assessed through the OEM's Whole Vehicle Type Approval (WVTA) process. The device was accepted as a functional alternative to emergency hammers and approved by the UK Vehicle Certification Agency (VCA) for compliance with UNECE R107.

Following this, Safe-T-Punch™ has been deployed in vehicles manufactured by selected OEMs, including MCV, MAN, and Daimler, operating across the UK and Europe.

Outcome

- Independent UKAS-accredited test validation
- UNECE R107 compliance confirmed through OEM homologation
- Permanent, tamper-resistant emergency exit solution
- Widespread operational deployment across multiple fleets