

Emergency Vehicle

Safety & Compliance Guide





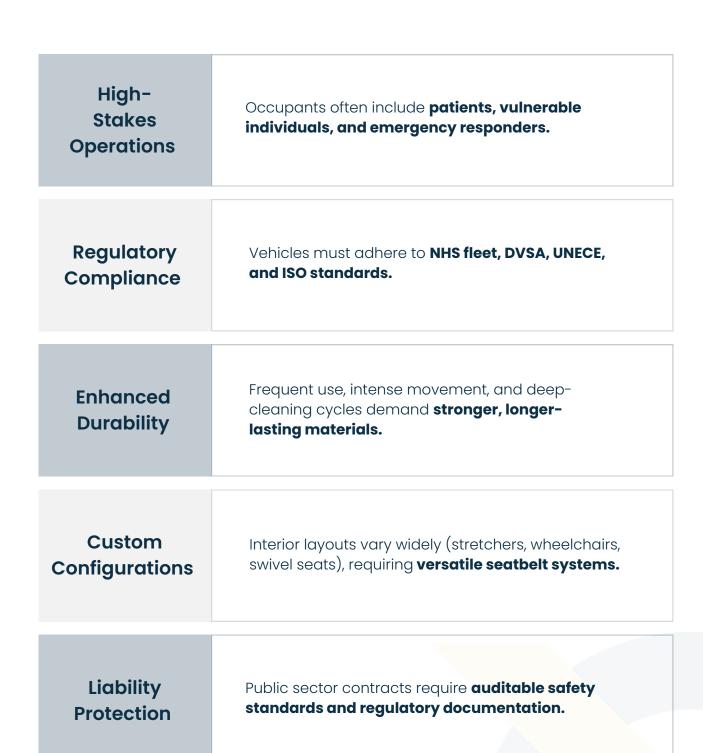




A Message from Orion Safety Belts

"In emergency vehicles, safety is non-negotiable. Ambulances, fire command units, and mobility support vehicles demand seatbelt systems that meet rigorous compliance, withstand heavy use, and prioritize both occupant protection and operational efficiency. Orion Safety Belts partners with emergency vehicle builders across the UK and Europe to provide safety solutions that align with regulatory standards and real-world demands. This guide supports manufacturers, converters, and public sector fleet suppliers in meeting safety requirements with confidence."

Why Seatbelt Safety is Critical in Emergency Vehicles



Seatbelt Regulations in Emergency Transport

1

Key Compliance Standards

UNECE R14, R16 & R17 – Seatbelt anchorage, webbing strength, and interior fitting requirements.

ISO 10542 & BS EN 1789 – Specific standards for ambulance and wheelchair transport.

ECE R118 - Regulations on flammability and interior materials.

DVSA IVA Standards – For converted emergency and specialist vehicles in the UK.

2

How to Ensure Compliance

Install seatbelts into reinforced vehicle structure with certified anchor points.

Use **crash-tested retractors and buckles** rated for commercial/public use.

Maintain installation documentation and compliance records for audits.

Partner with Orion Safety Belts for pre-configured, regulation-approved safety kits.

Choosing the Right Seatbelt for Campervans

Seatbelt System Options

- **3-Point Seatbelts** For seated paramedics, support staff, and secured transport positions.
- **2-Point Lap Belts** For temporary or wheelchair restraint systems.
- Integrated Harness Systems For stretcher beds and fixed treatment positions.
- Quick-Release Safety Belts Allows emergency egress and rapid response movement.

What to Look for in a Seatbelt Supplier

- Compliance Assurance ISO-certified, crash-tested components ready for NHS, DVSA, and ECE standards.
- Custom Configurations Compatible with wheelchair lifts, wall-mounted seats, and rotating medical chairs.
- Fast Delivery Urgent lead times to support public fleet upgrades and emergency contracts.
- Aftercare & Support –
 Access to ongoing technical
 help, replacement components,
 and installation guidance.





Installation & Operational Best Practices

1. Installation Guidelines

- # Anchor belts directly to structural steel, never cabinetry or lightweight furniture.
- Avoid retractor placement where sharp angles or obstacles hinder proper seatbelt pathing.
- ## Ensure seatbelt buckles are accessible and operable by both seated and standing personnel.
- # Validate installation with load testing, inspection photos, or compliance checklists.

2. Operator Guidance & Maintenance

- ✓ Train staff on correct seatbelt use across multiple seating types.
- ☑ Include belt condition checks in daily vehicle readiness inspections.
- Replace seatbelt assemblies immediately after crashes or damage.
- ✓ Include annual re-certification or re-inspection for NHS or DVSA compliance.

Why Emergency Vehicle Builders Choose Orion Safety Belts

√ NHS-Compliant Solutions

Our seatbelt kits are used in public and private emergency fleets across the UK.

√ High-Tension Crash-Tested Belts

Designed for high-impact environments and emergency-grade performance.

√ Specialist Layout Support

Kits designed for stretcher beds, wheelchair transport, and crew seating.

√ Trusted by Builders & Ambulance Converters

Known for fast turnaround and detailed installation support.

√ Regulatory Alignment

Orion assists with audit paperwork, bid submissions, and compliance documentation.



Case Study: Enabling NHS-Compliant Ambulance Upgrades at Scale

II The Challenge

A specialist UK ambulance converter was awarded a rapid-build contract to deliver NHS-compliant ambulances under tight deadlines. The manufacturer required precertified seatbelt systems, documentation for compliance, and technical installation training for their team.

X The Solution

Orion Safety Belts delivered:

- ✓Pre-approved seatbelt kits tailored for multiple ambulance layouts.
- ✓Installation manuals and video training for converter teams.
- ✓Immediate dispatch and staggered delivery to match production timelines.

The Results

- ✓ Fleet-wide DVSA and NHS compliance achieved.
- √ 28% faster upfit timelines due to ready-to-install kits.
- Minimal rework or certification delays, leading to successful public sector contract fulfilment.

Customer Testimonial:

"Orion Safety Belts enabled us to scale production quickly while staying compliant. Their technical guidance, reliable delivery, and NHS-ready belt systems made a massive difference."

Operations Director, UK Ambulance Converter

Partner With Orion Safety Belts for Emergency-**Grade Protection**

Ensure your emergency vehicles protect both lives and reputations—partner with Orion Safety Belts today!



Book a call today



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