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Introduction

This good practice guide is intended to give guidance to professional drivers so that bridge strikes can be prevented and to provide advice on the risks and consequences of bridge strikes.



A curtain sided lorry overturned as a result of a bridge strike

What is a bridge strike?

- A bridge strike is an incident in which a vehicle, its load or equipment collides with a bridge.
- Most bridge strikes occur where roads pass under railway bridges.

Prevention of bridge strikes

Your responsibilities are to:

- Know your vehicle height and width
- Know your route
- Obey traffic signs

Before commencing a journey check:

- · The security and safety of the load
- The height of the cab
- The height of the trailer, its load and equipment
- That the correct maximum height is displayed in the cab
- The maximum vehicle width



Always check the maximum height of your vehicle, its load and equipment

Do not rely on the information on the headboard as coupler heights can vary. Report any discrepancy between the measured height and that shown on the headboard to your Transport Manager

A route and vehicle check pro – forma is provided on page 5 for your use to record checks carried out to aid the prevention of bridge strikes.

When en route

You commit an offence if the overall travelling height of your vehicle is over 3 metres and the correct maximum height is not displayed in the cab.

Remember, your vehicle height can change for a variety of reasons, for example, adjustment of the 5th wheel, trailer loaded, unloaded or reloaded.



Notice in a driver's cab displaying the overall vehicle height

Avoid short cuts to save time as this may lead you to a low bridge.

Use a LGV specific satellite navigation system. Don't rely on a system designed for cars as these will not avoid low bridges.

Stop and seek advice on an alternative route if you:

- Are diverted from your planned route
- Realise that your route is obstructed by a bridge lower than your vehicle

Remember that it is an endorseable offence to use a hand held mobile phone or similar device whilst driving.

Traffic signs

You should be aware that traffic signs are provided at bridges to show the maximum permitted vehicle height when less than 16'-3" (4.95 metres):

- Red circles prohibit
- Red triangles warn

If a vehicle is higher than the dimension(s) shown on a circular traffic sign, you must stop and must not pass the sign. If you pass the sign you are likely to collide with the bridge and be prosecuted.

If the vehicle is higher than the dimension(s) shown on a triangular traffic sign at the bridge, you should not pass the sign.

At arch bridges, white lines on the road and 'goal posts' on the bridge may be provided to indicate the extent of the signed limit on vehicle height, normally over a 3 metre width. There may be an additional set of 'goal posts' showing lower limits towards the kerb.

At arch bridges ensure your vehicle passes between the goal posts.

Slow down as you approach the bridge and only move to the centre of the road when you are sure it is safe to do so. If necessary sound your horn or use dipped headlights to warn of your presence.

Drivers of vehicles with wide loads over 3m (9°.10°) need to take extra care at arch bridges as the maximum height available will be less than the signed limit











Warning chevrons and mandatory roundel signs showing the limit on vehicle height at a flat soffit bridge



White lines on the road and 'goal posts' on the arch indicating the extent of the signed vehicle height limit

What action should be taken if a bridge strike occurs?

On the approaches to bridges with a vehicle height restriction, signs might be provided to give you advance warning of the restriction. This is to help you take an alternative route avoiding the low bridge.

You should be aware, however, that advance warning signs are not provided at all low bridges.



Advance warning of a prohibition ahead and alternative route

What action should be taken if a bridge strike occurs?

At a railway bridge

Step 1: Report the bridge strike to the Rail Authority immediately so that trains may be stopped from crossing the bridge

> Telephone the number shown on the identification plate on the bridge.

Do not wait until you return to your depot before reporting the bridge strike.

Step 2: Advise the police using the 999 system.

between Gatestown and Weatherall In the event of any road vehicle striking this bridge please phone THE RAIL AUTHORITY on 0123 456 7890 as quickly as possible. The safety of trains may be affected. This bridge is owned by the Rail Authority

THIS IS BRIDGE ELR/987

Station Road

Example identification plate at a Network Rail bridge

Any road traffic collision that causes damage to a 3rd party must be reported. Each bridge strike causes damage to a bridge, and must therefore be reported.

Step 3: Report the bridge strike to your employer.

Step 4: Keep the public away and do not move your vehicle.

At any other bridge

Report the bridge strike to the Police using the 999 system and then your employer.

Keep the public away and do not move your vehicle.

What are the consequences of a bridge strike?

Striking bridges is potentially dangerous and expensive.

On the railway

- A serious incident could result in a train being derailed with catastrophic loss of life
- Bridge strikes may seriously jeopardise the safety of the public travelling by train
- Every bridge strikes causes delays and disruption to trains
- Bridge strikes cause damage to railway bridges on other road users



Bridge dislodged from abutments onto the vehicle which struck it

On other road users

You could cause:

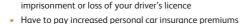
- The death or serious injury of another road user
- Serious disruption on the road network

On you and your employer

You could:

- · Be killed or seriously injured
- Suffer serious economic loss you could lose your job





Your company could lose their operator's licence

Your company will be liable for the costs of:

- Examining the bridge
- Repairing bridge damage
- Recovering your vehicle and its load
- Delays to train services



Crushed cab of a skip lorry following a bridge strike

Appendix 1

Professional drivers' route and vehicle check

Date		Driver's name	
Vehicle no.		Trailer fleet / Serial no.	
Route	From	То	Via
Load type	Вох	Container	Curtainsider
	Plant & Machinery	Skip	Waste
	Car transporter	Other (specify):	

Route and vehicle check	
Have low bridges on your route been identified?	☐ Yes ☐ No
What is (are) the location(s) of the lowest bridge(s) on the route?	
What is the limit on vehicle height under bridges on your route?	ftinsmetres
Is the load and equipment properly secured and safe?	☐ Yes ☐ N
What is the maximum travelling height of your vehicle?	ftinsmetres
Is the maximum height of your vehicle less than the limit on vehicle height under bridges on your route?	☐ Yes ☐ N
What is the maximum width of your vehicle?	ftinsmetres



Know your vehicle height and width. Know your route. Obey traffic signs. Don't hit and run.



Overall travelling height conversion chart



Feet / inches	Metres
16′-3″	4.95
16´-0´´	4.88
15´-9´´	4.80
15´-6~	4.72
15*-3**	4.65
15´-0~	4.57
14′-9″	4.50
14′-6″	4.42
14′-3″	4.35
14′-0″	4.27
13′-9″	4.19
13′-6″	4.11

Metres
4.04
3.96
3.89
3.81
3.73
3.66
3.58
3.51
3.43
3.35
3.05
2.75