



www.ferrostrada-uk.com



The Desami **DOLRE** range of Bridge Parapet systems presented by FerroStrada have been developed with road safety engineering in mind. Outstanding aesthetically pleasing designs are complimented with effective mechanisms to limit transferable forces to the supporting structure making it a highly efficient, attractive, and cost effective solution for new and existing bridge parapet projects.

Supplied in convenient containment options N2 normal containment, H2 higher containment and H4 very high containment, each DOLRE system is fastened to the bridge with just two anchors either side of an elongated base plate. The base plate is designed to support locally drilled and fixed anchors.

Breakaway posts activate a heavy chain concept which provides the design envelope for DOLRE systems to be compliantly installed on ageing infrastructure without the need for significant refurbishment and on modest off-bridge concrete foundations of just 150mm.



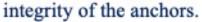
FerroStrada (UK) Limited

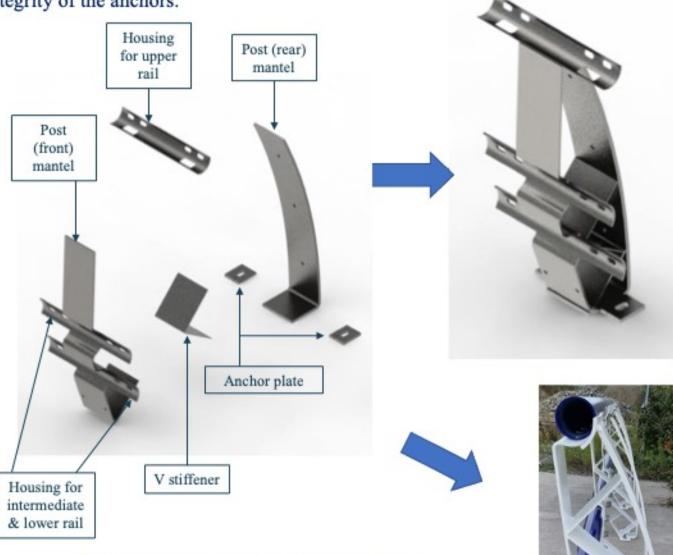
Venlaw House, Burston Road, The Heywood South Norfolk, IP22 5SX, United Kingdom email: admin@ferrostrada-uk.com

DOLRE Bridge Parapet Posts

The DOLRE bridge parapet posts have been designed to conceal fasteners from road side and constructed to be mounted on a concrete support via rectangular plates welded either side of a rear mantel.

This patent protected technology enables the post to breakaway without affecting the





The system been carefully considered for optimum performance, visual aesthetically pleasing, impact and versatility.





DOLRE Bridge Parapet Posts

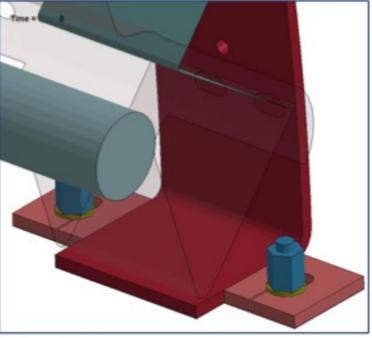
The innovative fuse disconnection process at the base plate prevents permanent damage to the anchor unit during impact. This means, in all cases, the anchors will not require replacing making impact maintenance swift and effective.

The energy is dissipated by the system through rigid tubes to operate a heavy chain mechanism which is a common feature with FerroStrada systems.





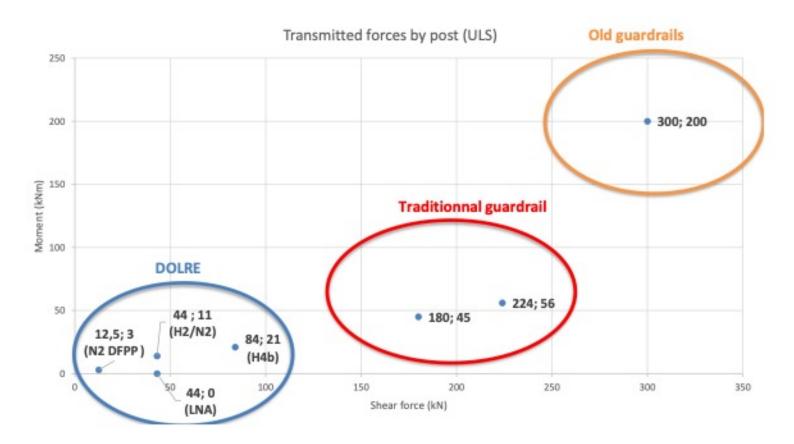
No fixings visible from road side



www.ferrostrada-uk.com

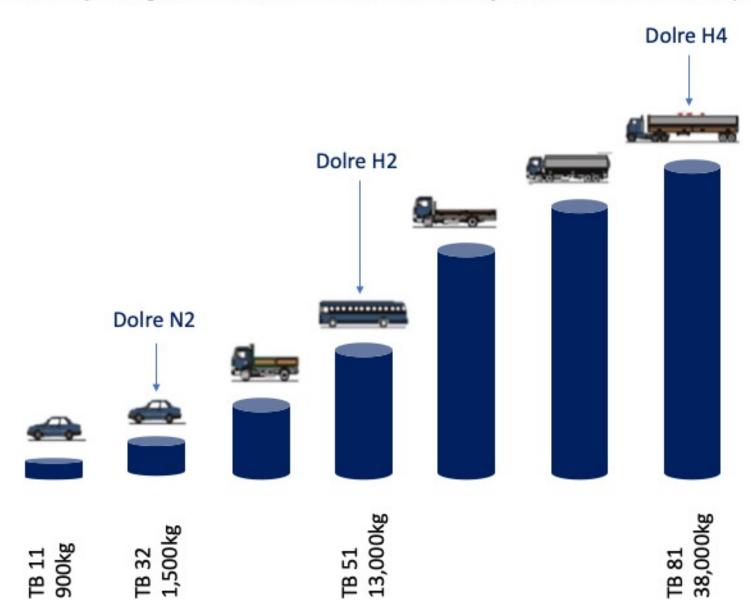
DOLRE Low Stress

The energy dissipation techniques offer the ideal opportunity to upgrade existing structures with a modern, up to date, attractive system without the need for heavy refurbishment including steel reinforcement. DOLRE is light weight therefore in most cases can relieve stresses from the bridge by relieving weight without compromising on compliance or safety.



DOLRE Containment Classes

The DOLRE Bridge Parapet is supplied in three convenient Containment Classes according to the parameters set out in EN 1317 conforming to Part 5 Product Conformity.



DOLRE N2-32

The DOLRE N2-32 Bridge Parapet.

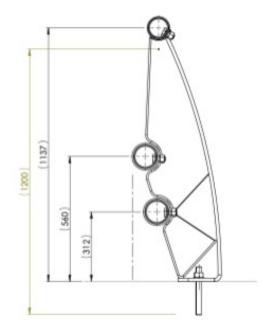
Containment Class: N2

Dynamic Deflection: 0.8m

Working Width: W3

Vehicle Intrusion: Vi3

Acceleration Severity Index: ASI B





Post Centres	entres Nominal Minimum plinth Anchor n) height width (mm) Type (m)		Forces		
("")		width (mm)	Туре	Vertical (kN)	Moment (kNm)
6.0	1.2	400	M24	44	11

DOLRE N2-46 DFPP

The DOLRE N2-46 DFPP Bridge Parapet.

Containment Class: N2

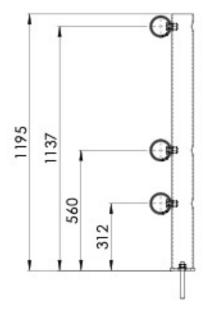
Dynamic Deflection: 0.9m

Working Width: W3

Vehicle Intrusion: Vi3

Acceleration Severity Index: ASI B

DFPP = Double Face Pedestrian Protection





Post Centres (m)	Nominal height			Forces	
	(m)	width (mm)	Туре	Vertical (kN)	Moment (kNm)
2.0	1.2	240	M20	12.5	3.1

DOLRE H2-41

The DOLRE H2-41 Bridge Parapet.

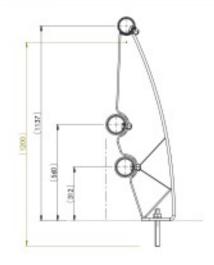
Containment Class: H2

Dynamic Deflection: 0.9m

Working Width: W3

Vehicle Intrusion: Vi3

Acceleration Severity Index: ASI B





Post Centres (m)		Minimum plinth	15.000	Forces	
	height (m)	width (mm)	Type	Vertical (kN)	Moment (kNm)
2.0	1.2	400	M24	44	11

DOLRE H2-33 NAK

The DOLRE H2-33 Off-Bridge Parapet on 150mm thick string course.

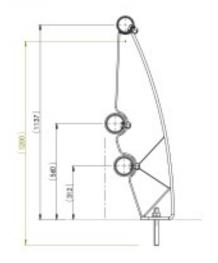
Containment Class: H2

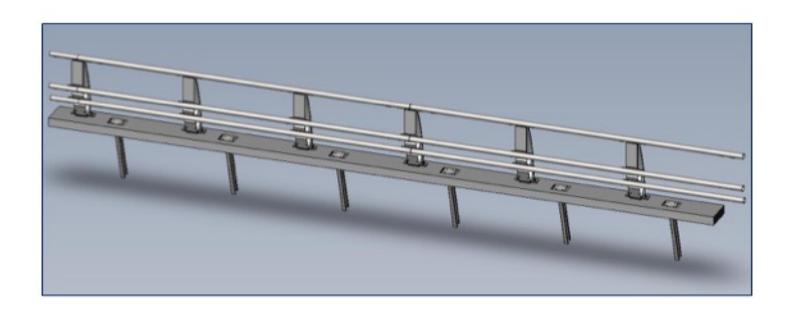
Dynamic Deflection: 0.9m

Working Width: W3

Vehicle Intrusion: Vi3

Acceleration Severity Index: ASI B





Post Centres	Nominal height	ninal Minimum plinth Anchor	100000000000000000000000000000000000000	Forces		
(m)	(m)	width (mm)	Туре	Vertical (kN)	Moment (kNm)	
2.0	1.2	650	M24	44	11	

DOLRE H2-55 Light

The DOLRE H2-55 light weight version of H2-41

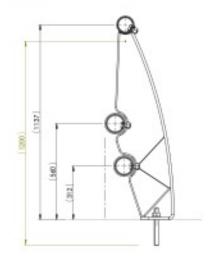
Containment Class: H2

Dynamic Deflection: 1.4m

Working Width: W5

Vehicle Intrusion: Vi5

Acceleration Severity Index: ASI B





Post Centres		100000000000000000000000000000000000000	Forces		
(m)	(m)	width (mm)	Туре	Vertical (kN)	Moment (kNm)
2.0	1.2	400	M24	44	11

DOLRE H4-64

The DOLRE H4-64 Bridge Parapet

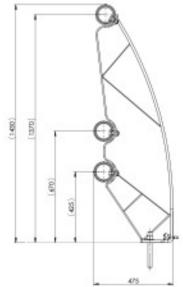
Containment Class: H4

Dynamic Deflection: 1.7m

Working Width: W6

Vehicle Intrusion: Vi8

Acceleration Severity Index: ASI B



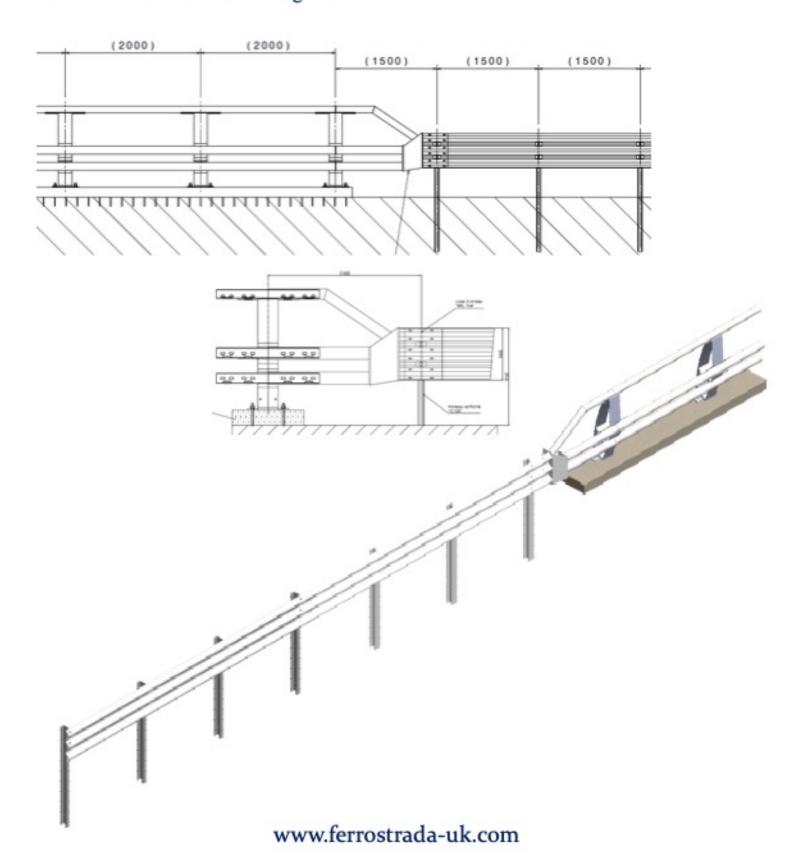


Post Centres	Nominal height	Minimum plinth Anchor width (mm) Type	100000000000000000000000000000000000000	Forces		
(m)	(m)		туре	Vertical (kN)	Moment (kNm)	
1.5	1.4	500	M24	84	21	

DOLRE Transitions

The DOLRE Bridge Parapet systems can be supplied with numerous transition options.

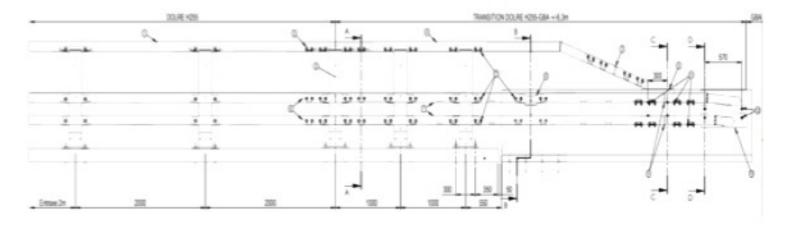
Transition TL2 and TL4 to steel guardrail



DOLRE Transitions

The DOLRE Bridge Parapet systems can be supplied with numerous transition options.

Impact tested transition TL4 to concrete barrier





DOLRE Accessories

The DOLRE parapet systems can be supplied with a wide range of accessories to provide aesthetically pleasing options.



Mesh infill panels fitted to front or rear



Decorative infill panels



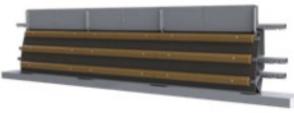
Solid infill panels fitted to front or rear



Solid infill panels fitted to front or rear with mesh extension



Bat protection system with wood clad



Bat protection extension with wood clad



LED highway lighting systems

www.ferrostrada-uk.com

DOLRE Applications

















DOLRE RANGE OF BRIDGE PARAPET SYSTEMS

Outstanding Design
Less Reinforcement Required
Lower Forces
Adaptable



www.ferrostrada-uk.com