Construck combines

the best of technologies to create a bridge protection barrier which satisfies the performance ratings of International Standards like PAS 68: 2013, IWA 14-1:2013 ASTM F2656-07 : 2015 EN1317, NCHRP, MASH

CONSTRUCK BRIDGE PROTECTION SYSTEM Introducing

ULLI

A Versatile Bridge Safety Barrier



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Slope Stabilization Systems | Value Engineering | Geotechnical Consultancy | Supply Chain

Powered by valmont

valmont

HIGHWAY

An excellent solution for sand mitigation to avoid clogging of sands in highway bridges

Replaces Concrete Barriers completely while maintaining same effectiveness and efficiency

Perfect solution for U-turns and places with zero deflection tolerance

Double Protection with Valmont H2 or TL4 systems combined to stop stray mobile elements

93

500

Bridge Crash Barrier System

Mitigating localized sand accumulation using Innovative Barrier Systems

20Dia Boll

3.3mm Thick

KEY FINDINGS

- Traditional measures to mitigate sand accumulation on the road incur high costs
- Road Safety Barriers can contribute to sand accumulation within the carriageway
- The porosity of barriers can affect the distribution of windblown sand
- Rigid Bollard with Cable Safety offer a potential alternate to mitigate sand accumulation in Bridges, U Turns and all areas with low deflection requirements

ABSTRACT

Sand Accumulation on highways around Concrete is an ongoing problem for road authorities in arid areas across the globe. There are no single system solutions to replace concrete barrier due to the low deflection requirements. This proposal discusses the impact of different road safety barrier types used in areas prone to sand accumulation and provides solution for replacing an W- Beam Median Barrier or Concrete Barrier with a Bollard-Wire Rope Barrier system.

		Different Stan	ent Standards for Fixed Barrier Testing			
	Publicly Available Standard (PAS 68- Latest Version 2013	PAS 68: 2013- British Standard				
		Performance Classification	Speed(Km/h)	Weight(kgs)	Angle	Energy(kJ)
	UK based threat vehicles Likely withdrawn 2018	PAS 68 V/7500[N3]/80/90	80	7500	90	1852
		PAS 68 V/7500[N2]/48/90	48	7500	90	667
	IWA 14-1 - Latest Version 2013 Includes all - world threat vehicles contianied in PAS 68 & ASTM F2656 Due for review 2017	IWA 14-1:2013 - International Workshop Agreement				
		Performance Classification	Speed(Km/h)	Weight(kgs)	Angle	Energy(kJ)
		IWA 14-1 V/7200[N3C]/80/90	80	7200	90	1772
		IWA 14-1 V/7200[N2A]48/90	48	7200	90	656
	ASTM F2656 - Latest Version 2015 North America threat vehicles Superseded "DOS" or SD/STD 2.01	ASTM F2656-07 :2015 - American Standard				
		Performance Classification	Speed(Km/h)	Weight(kgs)	Angle	Energy(kJ)
		ASTM F2656-07 M50/P1 (Triple unit)	80	6800	90	1699
		ASTM F2656-07 M30/P1 (Triple unit)	48	6800	90	612

- Crash Tested Shallow Foundation Fixed Bollards shall be fixed at recommended spacing on the edges of the Bridge Decks longitudinally.
- These Bollards shall be Performance Classification as per ASTM F5656 07 M50 -P1 or equivalent
 Corresponding PAS and IWA performance Classifications are available in the comparison sheet
- The Bollards are effective to halt errant vehicles as per the classification.
- Due to the space available between bollards, the sand accumulation is reduced
- Wire Rope Safety Barrier shall be fixed along with the Bollards to act as an additional safety barrier.
- This WRSB shall be a H2 rated system as per EN1317 and can act as a further deterrent
- Unfortunate event of a Crash with Bollard will reduce the terminal velocity of the errant vehicle to near 0 and hence removes most of the Kinetic Energy.
- With highly Diminished Kinetic energy, the vehicle can be brought to a further halt by the WRSB.
- Additional use of WRSB is to stop stray elements (like detached tyresetc) from the crash to fall down the road below.
- The WRSB will also act as a barrier to stop any pedestrians from falling down the bridge by accident(in extension the animals as well)

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