

Product Evaluation

Product ID: 8280-2-6-4-6
Initiation Date: November 2013
Revision Date: December 08, 2014
Expiry Date: November 2016

RE: Review of King Block – Guardrail Spacer Block

PRODUCT

King Block is manufactured by Trinity Highway Products located in Dallas, Texas and distributed by Roadside Supply Ltd located in Sherwood Park, Alberta.

VENDOR CLAIMS AND INFORMATION

CLAIMS:

King Block has been crash tested to the National Cooperative Highway Research Program (NCHRP) Report 350 test 3-11. The King Block consists essentially of an upper and a lower cylinder connected by additional structure that includes locations for bolt placement. Product Web link: <http://www.highwayguardrail.com/products/ob.html>

DESCRIPTION:

King Block is an injection molded offset block comprised of 70% high density polyethylene and 30% ground recycled rubber. The size of the King Block is 100mm X 350mm X 190.5mm with a weight of 3.6 kilograms. The King Block meets the appropriate evaluation criteria for a NCHRP 350 TL-3 device and may be used with TL-3 Strong Post W-Beam Guardrail.

POTENTIAL USAGE:

King Block advantages: self-hanging fingers minimize the need for assistance by end users during installation; self-aligning side rails help hold block in place and narrower width allows easier access to bolts at splices. The King Block can be used as a substitute for wood spacer blocks on a steel post strong post W-beam.

STANDARDS:

NCHRP Report 350, Test Level 3

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE:

Alberta Transportation has no experience with this product.

APPLICATION STANDARDS:

The Alberta Transportation specifications for guardrail are:
Specification 2.19, Guardrail and Guideposts
Specification 5.25, Supply of W-Beam Guardrail and Posts
Specification 5.27, Supply of Cable Barrier and Metal Posts

RECOMMENDATIONS:

King Block be listed as a Trial Product under Alberta Transportation Products List, Traffic Control Devices – Barrier Systems – Proprietary, based on the information provided. Final acceptance as a proven product will be based on field performance.

Caveat: “not to be used on bridge approach rail transitions” refer to the departments Bridge Approach Rail Transition standard drawings.

TRIAL PROJECTS

- Hwy 63 - S.B.L. of Hwy. 63 over the Athabasca River, Hwy. 63 over Franklin Ave. in Fort McMurray
- Hwy 2 at Olds
- Hwy 1 by Canmore
- Hwy 22, 20 km E. of Drayton Valley
- Hwy 40, 30 km S. of Grande Prairie
- Hwy 1, 15 km E. of Medicine Hat
- Hwy 1 near Seebee
- Hwy 63 near Grassland
- Hwy 36 near Castor
- Anthony Henday

Hwy 799:02	Product ID: 8280-2-6-4-6
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