

Product Evaluation

RE: Review of Mondo Guardrail Offset Block

PRODUCT

Mondo Block is manufactured by Mondo Polymer Technologies located in Reno, Ohio and distributed by Roadside Supply Ltd located in Sherwood Park, Alberta.

VENDOR CLAIMS AND INFORMATION

CLAIMS:

Mondo Block has been crash tested to the National Cooperative Highway Research Program (NCHRP) Report 350 test 3-11 and is approved by the Federal highway Administration. The Mondo Block is manufactured using recycled polyethylene and is light weight making it easier to install on strong post guardrail systems. Product Web link: <http://www.mondopolymer.com/14>

DESCRIPTION:

Mondo Block material composition is 95% recycled polyethylene, UV protection is added during the manufacturing process. The dimensions of the Mondo Block is 356mm long by 102mm wide at the block/guardrail interface and remain constant for 263mm before flaring out to 130mm at the post/block interface, the approximate weight is 4.5 kilograms.

POTENTIAL USAGE:

Mondo Block is environmentally safe, all blocks are recyclable, is light weight, weather resistant and long lasting. Mondo offset blocks are FHWA approved for use with strong post steel w-beam, as well as with round or rectangular wooden posts. Mondo Block has been used in numerous United States Transportation Departments.

STANDARDS:

FHWA NCHRP Report 350 TL-3
AASHTO

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:

Mondo Block be listed as a Proven Product under Alberta Transportation Products List, Traffic Control Devices – W-Beam Guardrail and Posts – Recycled Guardrail Offset Blockout – Proprietary, based on the information provided and the 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 #16 Jasper National Park	Hwy #759 over the North Saskatchewan River
Hwy #45 at the town of Lamont	Hwy #32 Near Peers Alberta
AT-19687 (Hwy 897:04 Hwy 16 to Hwy 45) – 185 Mondo Blocks used	



Transportation

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