

Product Evaluation

RE: Review of NU-Guard – 27 Strong Post Guardrail System (offset plastic blocks)

PRODUCT

The NU-Guard – 27 Strong Post Guardrail System is manufactured by Nucor Steel Marion Incorporated located in Marion, Ohio and distributed by Canada Culvert of Edmonton, Alberta, Roadside Supply of Sherwood Park, Alberta and Safe Roads Highway Products of Leduc, Alberta.

VENDOR CLAIMS AND INFORMATION

CLAIMS

The NU-Guard – 27 Strong Post Guardrail System is NCHRP approved for Test Level 3 and test Level 4. The NU-Guard – 27 Strong Post Guardrail System U-channel post is easier and faster to install than wood or I-beam posts. Product Web Link: <http://www.nucorhighway.com/guardrail-products/nu-guard-27/>

DESCRIPTION

The NU-Guard – 27 Strong Post Guardrail System consists of hot rolled high tensile steel fabricated into a U cross section. The total weight of the posts is 2.27 kg per foot, posts are 1981 mm long and hot dip galvanized. The plastic blockouts are manufactured from a 50 percent blend of new and recycled high density polyethylene (HDPE).

POTENTIAL USAGE

The NU-Guard – 27 Strong Post Guardrail System is available for use with offset blocks. The system is crash test proven to guard against roadside collisions with fixed objects or hazards. NU-Guard – 27 Strong Post Guardrail System can also be used in both weak and strong post applications.

STANDARDS

NCHRP 350 TL-3 and TL-4

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE

Alberta Transportation has no experience with this product

APPLICABLE 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:

NU-Guard – 27 Strong Post Guardrail System 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.

TRIAL PROJECTS

West of Drumheller City Limits on Hwy 575

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