



1994

BOX BEAM GUARDRAIL END RAIL

RBM05

SHEET NO.	REF. NO.
1 of 2	

SPECIFICATIONS

The box beam guardrail end shall be manufactured from 152-mm square 4.8-mm thick tubing. The material may be either ASTM A500 Grade B cold-rolled tubing, ASTM A501 hot-rolled tubing or automotive Rollover Protective Steel (ROPS). ASTM A500 Grade B tubing is generally the most easily and economically obtained section but there have been reported problems with the steel fracturing at low temperatures. When using ASTM A500 Grade B steel it is highly recommended that the Drop-Weight-Tear test (ASTM E436) be performed to ensure each lot of material has adequate fracture toughness especially in regions that experience prolonged cold weather. ASTM A501 tubing and ROPS tubing can generally be used without the need for the Drop-Weight-Tear test.

The beams should be hot-dip zinc coated according to AASHTO M111 (ASTM A123).

Designator	Area (10^3 mm^2)	I_x (10^6 mm^4)	I_y (10^6 mm^4)	S_x (10^3 mm^3)	S_y (10^3 mm^3)
RBM05	2.8	9.8	9.8	129	129

Dimensional tolerances not shown or implied are intended to be those consistent with the proper functioning of the part, including its appearance and accepted manufacturing practices.

INTENDED USE

RBM05 End Rails are used in box-beam guardrail terminal systems.

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