

INTENDED USE

The tall-wall median barrier, also known as the Ontario tall wall median barrier, is a variation of the more typical safety shape median barrier (SGM11a-b). This particular variation of the safety shape barrier is unreinforced and is wider at the base and top, although the profile is the same as the SGM11a-b. The barrier may be slip-formed or cast in place. Crash tests have demonstrated that normal shrinkage cracks do not adversely affect the impact performance of the barrier. The SGM12 is a Test Level 5 barrier.

COMPONENTS

Concrete shall be AASHTO M85 (ASTM C150) Type II concrete, except that the 28-day compressive strength shall be not less than 5000 psi [35 MPa]. The barrier rests on a well-compacted granular base. The granular base material shall conform to ASTM D2940 and shall be compacted to a proctor dry density of at least 95 percent. Lateral support is provided in part by an asphaltic concrete overlay. The asphaltic concrete material shall conform to ASTM A3519 for a nominal size of ¾ inches [19 mm]. Each asphaltic concrete course shall be compacted to 96 percent of the recompacted Marshall density. The asphaltic concrete courses shall be no more than 3 inches [75 mm] thick.

APPROVALS

FHWA Acceptance Letter B-19, 5/13/1992

FHWA Acceptance Letter B-64, 2/14/2000

REFERENCES

K.K. Mark and W. Campise, *Test and Evaluation of the Ontario Tall Wall Barrier with an 80,000 pound Tractor Trailer*, Ontario Ministry of Transportation, Ontario, Canada, September 1990.

CONTACT INFORMATION

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TALL-WALL MEDIAN BARRIER

SGM-12

SHEET NO.

DATE

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