

INTENDED USE

Strong-post thrie-beam median barriers should be used in locations where a maximum dynamic deflection of 20 inches [500 mm] is acceptable. Thrie-beam barriers can be more effective than W-beam barriers in collisions with larger vehicles. This barrier system must be properly anchored and terminated. Any common W-beam terminal can be used in conjunction with an STG01 W-beam-to-thrie-beam transition to provide a crashworthy terminal and anchorage.

SGM-09a (steel posts) and SGM09c (wood posts) with either PDB02a-b wood blockouts or approved composite blockouts are Test Level 3 barriers. SGM-09b (modified thrie-beam) is a Test Level 4 barrier.

COMPONENTS

Unit length = 150 inches [3810 mm]

| Designator | Component | System | Number |
|------------|---|--------|----------|
| FBB01 | Splice bolt and nut | a,b,c | 24,16,24 |
| FBB02 | Rail-blockout bolt and nut | b | 4 |
| FBB03 | Rail-blockout bolt and nut | a | 8 |
| FBB05 | Rail-blockout bolt and nut | c | 4 |
| FBX16a | Post-blockout bolt (1.5 inches [40 mm]) and nut | b | 8 |
| FWC16a | Round washer | a,c | 8,4 |
| PDB02a | Timber post blockout | c | 4 |
| PDB02b | Timber post blockout | a | 4 |
| PDE03 | Timber guardrail post | c | 2 |
| PWB03 | Modified thrie blockout | b | 4 |
| PWE03 | Steel guardrail post | a | 2 |
| PWE04 | Steel guardrail post | b | 2 |
| RTB01a | Thrie-beam backup plate | b | 2 |
| RTM02a | Thrie-beam rail | a-c | 2 |

APPROVALS

FHWA Acceptance Letter B-64, 2/14/00.

REFERENCES

D.L. Ivey, R.R. Robertson and C.E. Buth, *Test and Evaluation of W-Beam and Thrie-Beam Guardrails*, Federal Highway Administration, FHWA-RD-82-071, Washington, D.C., 1986.

C.E. Buth, W.L. Campise, L.I. Griffin, M.L. Love, and D.L. Sicking, *Performance Limits of Longitudinal Barriers*, Federal Highway Administration, Report No. FHWA-RD-86-153 (vol. 1), Washington, D.C., May 1986.

M.E. Bronstad, J.D. Michie, J.D. Viner, and W.E. Behm, *Crash Test Evaluation of the Thrie Beam Traffic Barrier*, Highway Research Record, Highway Research Board, 1974.

STRONG-POST THRIE-BEAM MEDIAN BARRIER

| SGM09a-c | | | | |
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| 2 of 4 | 7/06/2005 | | | |



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CONTACT INFORMATION

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