INTENDED USE

Strong-post W-beam guardrails should be used in locations where a maximum dynamic deflection of 36 inches [900 mm] or less is acceptable. W-beam guardrails should be anchored and terminated using a suitable end treatment such as the SEW03a-b, SEW04a-b (BCT) or SEW05 (MELT) terminals. SGR-04a (steel posts) with steel blockouts is a test level 2 barrier; SGR-04a with non-steel (wood or approved plastic) blockouts is a test level 3 barrier. SGR-04b (wood posts) with wood, steel or plastic blockouts is also a test level 3 barrier.

COMPONENTS							
Unit length = 150 inches [3810 mm]							
	Designator Component		System	Number			
	FBB01	Splice bolts and nuts	a-b	8			
	FBB02	Guardrail-post bolts and nuts	а	2			
FBB04 G		Guardrail-post bolts and nuts	b	2			
FBX16a		Post blockout bolt (1.5 inches [40 mm]) and nut	a	4			
	FWC16a	Round washer	b	2			
	PDB01	Timber post blockout	b	2			
	PDE02	Timber post	b	2			
or	PDE13	Timber post	b	2			
	PWB01	Steel post blockout	а	2			
	PWE01	Steel post	а	2			
or	PWE02	Steel post	а	2			
	RWB01a	W-beam backup plate	a	1			
	RWM02a	W-beam rail	a-b	1			

APPROVALS

FHWA Acceptance Letter **<u>B-64</u>**, 2/14/00.

REFERENCES

M.E. Bronstad, J.E. Michie and J.D. Mayer, Jr., *Performance of Longitudinal Traffic Barriers*, National Cooperative Highway Research Program Report Number 289, Transportation Research Board, June, 1987.

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.

R.L. Stoughton, R.L. Stoker, E.F. Nordlin, *Dynamic Tests of Metal Beam Guardrail*, Transportation Research Record, Transportation Research Board, Washington, D.C., 1975.

STRONG-POST W-BEAM GUARDRAIL					
SGR0	4a-b				
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CONTACT INFORMATION

Federal Highway Administration Office of Safety 400 Seventh Street, SW Washington, DC 20590 202-366-2288



STRONG-POST W-BEAM GUARDRAIL

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