

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. SGR-04a (steel posts) with steel blockouts is a Test Level 2 barrier. SGR-04b (wood posts) with wood, steel or plastic blockouts is a Test Level 3 barrier; SGR-04c (steel posts) with wood or plastic blockouts is also a Test Level 3 barrier.

COMPONENTS Unit length = 150 inches [3810 mm]						
	FBB01	Splice bolt and nut	a-c	8		
	FBB02	Guardrail-post bolt and nut	a	2		
	FBB03	Guardrail-post bolt and nut	с	2		
	FBB04	Guardrail-post bolt and nut	b	2		
	FBX16a	Post blockout bolt (1.5 inches [40 mm]) and nut	a	4		
	FWC16a	Round washer	b,c	2		
	PDB01a	Timber post blockout	b	2		
	PDB01b	Timber post blockout	с	2		
	PDE02	Timber post	b	2		
or	PDE13	Timber post	b	2		
	PWB01	Steel post blockout	a	2		
	PWE01	Steel post	a,b	2		
or	PWE02	Steel post	a,b	2		
	RWB01a	W-beam backup plate	a	1		
	RWM02a	W-beam rail	a-c	1		

COMDONENTS

APPROVALS

FHWA Acceptance Letter B-64, 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

SGR04a-c

SHEET NO. DATE 6/30/05 2 of 4







SGRO	4a-c
SHEET NO.	DATE:
3 of 4	6/16/2005

CONTACT INFORMATION

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STRONG-POST W-BEAM GUARDRAIL

SGR04a-c					
SHEET NO.	DATE				
4 of 4	6/15/05				

