



Type B Crashworthy End Terminals Field Section 1040 Table 4 (1040GRCW..B)

Unit

Brakemaster System

C-A-T 350 (Crash-Cushion
 Attenuating Terminal)

Manufacturer

Energy Absorption Systems, Inc.
 One East Wacker Drive
 Chicago, Illinois 60601-2076

Trinity Industries Co.
 2525 Stemmons Freeway
 Dallas, TX 75207

Unit	NCHRP 350 Test Level	Crash Cushion/ End Terminal			Use d as L-O- N (A)	Unit Width	Unit Len- gth (B)	Engineer's Estimate for Installation	% Reusble or Average repair Cost	Max Cross- Slope	Clear Zone Reqd. (C)	Hazard Location			*Addtl Modifica- tions	Addtl Length of Guard Rail	*No t es
		R	G	NR								M	G	R			
Brakemaster System	TL-3	X	X		None	0.64 m (25")	9.6 m (31' - 6")	\$5,000 - \$6,000 (w/ transition \$6,000 - \$7,000)	20%	12:1 (8%)	22.5 m x 6 m (75' x 20')	X	X	X			
CAT-350	TL-3	X	X		5.6 m (18' - 6")	0.7 m (2' - 5')	9.5 m (31' - 3")	\$5,000 - \$6,000 (w/ transition \$6,000 - \$7,000)	\$1,200 - \$2,500	10:1	22.5 m x 6 m (75' x 20')	X	X	X		12.5' (3.81 m)	1,2

***Notes/Definitions**

1. Reverse Impact Treated
2. Two-way Traffic
3. Deck/Structure Required

- (A) Use designated length of system as part of required length of need to protect hazard.
 (B) System length does not include transition section required to connect system to guardrail, median barrier or retaining wall.
 (C) Based on 62.5 mph.

Crash Cushion/End Terminal

R = Redirectional
 G = Gating
 NR = Non-Redirectional



Type B Crashworthy End Terminals Field Section 1040 Table 4 (Cont.) (1040GRCW..B)

Hazard Location

M = Median
G = Gore
R = Roadside

Additional Comments

Brakemaster – Do not use in medians or gore areas less than 3 m (10') wide. Transition section required when attached to a rigid barrier. The first 1.9 m (6' – 3") guardrail section connected to the system shall not angle more than 3 degrees laterally from the system's centerline. Do not specify for paved surface locations.

CAT-350 – System Length = 13.1 m (43') with basic transition. System length = 19.2 m (63') when attached to rigid barrier or object. Do not use in medians or gore areas less than 3 m (10') wide. Do not specify for paved surface locations.

