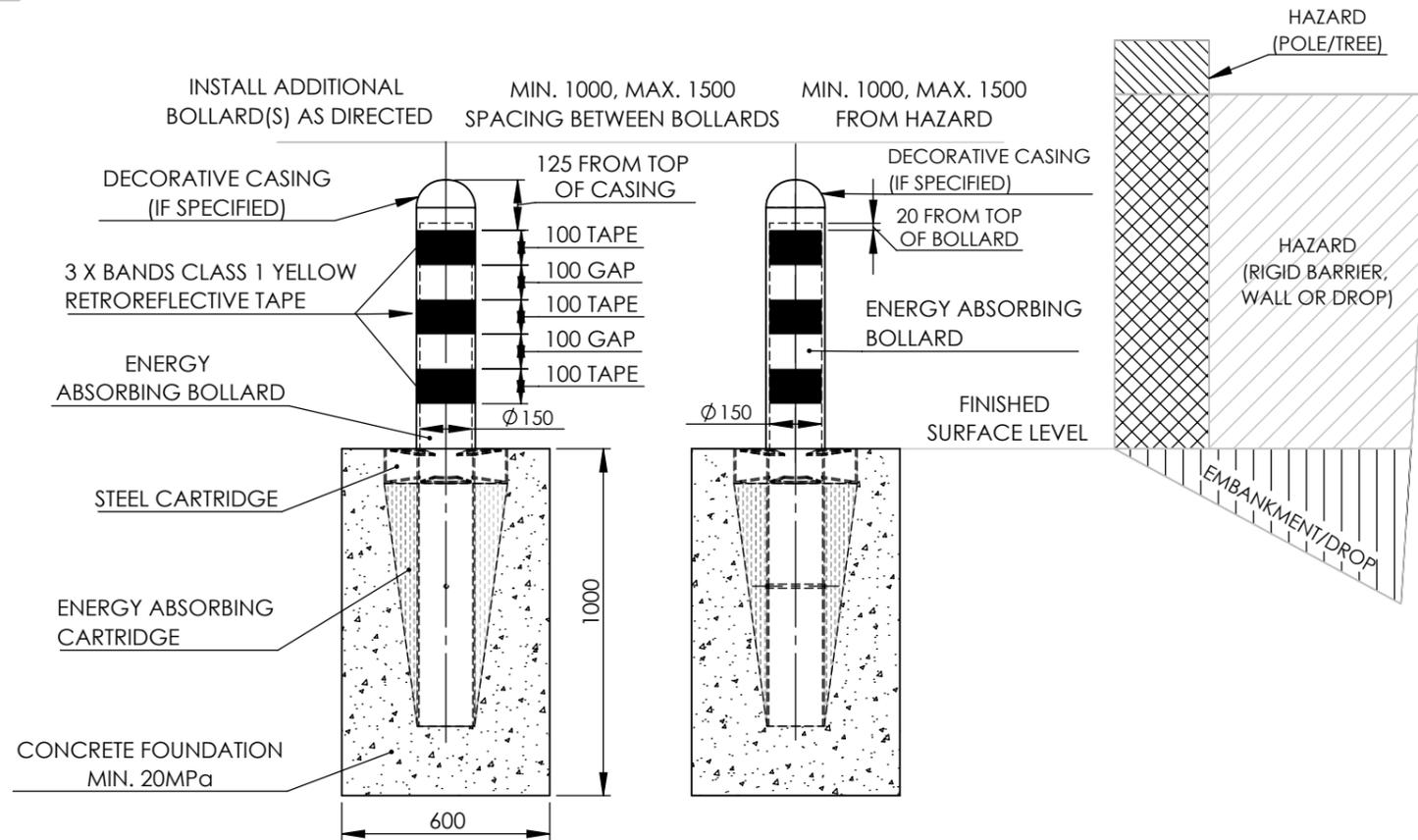


**ENERGY ABSORBING BOLLARD
GUARDRAIL END TREATMENT**

NOTES:

1. THE GUARDRAIL END TERMINAL SHALL BE (OR APPROVED EQUIVALENT):
- OMNISTOP GUARDRAIL END TREATMENT, SOLD AND DISTRIBUTED AUTOMOTIVE SAFETY ENGINEERING (08 83847863, www.autosafety.com.au).
2. HAZARD PROTECTION ENERGY ABSORBING BOLLARD SHALL BE (OR APPROVED EQUIVALENT):
- OMNISTOP BOLLARD, SOLD AND DISTRIBUTED BY AUTOMOTIVE SAFETY ENGINEERING (08 83847863, www.autosafety.com.au).
3. NONFLARED TERMINAL SHALL INCULDE ALL POST, RAIL AND HARDWARE ITEMS REQUIRED FOR A COMPLETE UNIT. THE END TREATMENT SHALL BE INSTALLED TO MANUFACTURER AND/OR DISTRIBUTORS REQUIREMENTS.
4. DESIGN TO BE IN ACCORDANCE WITH DESIGN MANUALS AS PROVIDED BY MANUFACTURER / DISTRIBUTOR.
5. FOR URBAN SITUATIONS, BOLLARDS TO BE RATED TO 60kph, APPROPRIATE DOCUMENTATION SHOWING LEVEL OF TESTING TO BE PROVIDED BEFORE BOLLARD/SYSTEM INSTALLATION.
6. SYSTEM TO BE INSTALLED PARALLEL TO TRAVEL WAY.
7. DELINEATOR ON GUARDRAIL END TREATMENT END BUFFER TO HAVE CLASS. 1 RETROREFLECTIVE BACKGROUND WITH BLACK NONREFLECTIVE PATTERN. DELINEATOR TO MATCH QUEENSLAND MANUAL OF TRAFFIC CONTROL DEVICES (MUTCD) SIGN D4-Q02.
8. ENERGY ABSORBING BOLLARD FOR HAZARD PROTECTION EITHER TO BE LEFT PLAIN (GALVANISED FINISHED), PAINTED OR POWERCOATED, OR INSTALLED WITH SECURED DECORATIVE COVER AS SUPPLIED BY MANUFACTURER.
9. WHERE BOLLARD INSTALLED WITH PAINTED OR POWERCOATED FINISH OR WITH DECORATIVE COVER, COLOUR IS TO COMPLEMENT SURROUNDING STREETScape. COLOUR SELECTION IN ACCORDANCE WITH STANDARD BCC CORPORATE COLOUR PALETTE – REFER BSD-1003 FOR DETAILS.
10. ENERGY ABSORBING BOLLARDS FOR HAZARD PROTECTION TO HAVE THREE (3) 100mm WIDE BANDS OF CLASS 1 YELLOW RETROREFLECTIVE TAPE AT 100mm SPACING
11. ALL DIMENSIONS IN MILIMETERS (U.N.O)



**ENERGY ABSORBING BOLLARD
HAZARD PROTECTION TREATMENT**

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UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:	DO NOT SCALE DRAWING	REVISION
			 AUTOMOTIVE SAFETY ENGINEERING PTY LTD 28 DONEGAL ROAD, LONSDALE, SOUTH AUSTRALIA 5160 PHONE 08 8384 7863, FAX 08 8384 3447, MOBILE 0417 845 711	
NAME	SIGNATURE	DATE	TITLE:	
DRAWN AMIRAH		19/09/16	ENERGY ABSORBING BOLLARD GUARDRAIL END TERMINAL	
CHK'D			DWG NO.	
APPV'D GRAD ZIVKOVIC		19/09/16	A3	
MFG			SCALE:1:20	
Q.A			SHEET 1 OF 1	
MATERIAL:		WEIGHT:		