



TRAFFIC

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NOTES:

- IN COMPLIANCE WITH THE AASHTO 2011 ROADSIDE DESIGN GUIDE, MANUFACTURER RECOMMENDS REMOVAL OF ALL CURBS AND ISLANDS TO ENSURE PROPER IMPACT PERFORMANCE.
- PROVISION SHALL BE MADE FOR REAR FENDER PANELS TO SLIDE REARWARD UPON IMPACT 762 [30.00] MIN.
- 150 [6.00] MIN. REINFORCED 28 MPa [4000 PSI] P.C. CONCRETE PAD OR 200 [8.00] MIN. NON-REINFORCED 28 MPa [4000 PSI] P.C. CONCRETE ROADWAY, MEASURING AT LEAST 3.66 m [12'-0"] WIDE BY 15.24 m [50'-0"] LONG. ANCHOR BLOCK IS NOT REQUIRED WHEN USING 8" CONCRETE PAD INSTALLED AGAINST AN IMMOVABLE STRUCTURE SUCH AS A CONCRETE WALL OR ABUTMENT.
- SEE THE "QUADGUARD SYSTEM PRODUCT MANUAL", FOR A DESCRIPTION OF ITS IMPACT PERFORMANCE CHARACTERISTICS AND DESIGN LIMITATIONS BEFORE PLACING A SYSTEM AT A GIVEN SITE. INFORMATION AND COPIES OF ABOVE MANUAL ARE AVAILABLE BY CALLING CUSTOMER SERVICE DEPARTMENT AT (888) 323-6374.
- WHERE NECESSARY, THE CUSTOMER SHALL SUPPLY AN ADEQUATE TRANSITION FROM THE QUADGUARD SYSTEM TO THE OBJECT BEING SHIELDED.
- UNITS OF MEASUREMENT ARE MILLIMETERS [INCHES], UNLESS OTHERWISE NOTED.
- BACKUP AND NOSE ASSEMBLIES NOT INCLUDED IN MODEL NUMBER. ORDER SEPARATELY.
- THE NUMBER OF BAYS INDICATED IN THE TABLE IS BASED ON CALCULATED VALUES TO ENSURE ADEQUATE SYSTEM CAPACITY TO DISSIPATE THE LONGITUDINAL IMPACT ENERGY OF A 2000 kg VEHICLE TRAVELING AT THE SPEED INDICATED.
- THE SIX BAY SYSTEM HAS BEEN FULLY TESTED AT 100 km/h UNDER THE FULL 8 TEST MATRIX OF NCHRP 350 TL-3.

* G=GRAY OR Y=YELLOW

BAYS	WIDTH			SYSTEM LENGTH		EFFECTIVE LENGTH		PAD LENGTH		MAX DESIGN SPEED	# OF CARTRIDGES	
	610 [24"]	762 [30"]	914 [36"]	m	ft-in	m	ft-in	m	ft-in		km/h [MPH]	TYPE I
1	QS2401*	QS3001*	QS3601*	2.16	[7'-1"]	1.73	[5'-8"]	2.74	[9'-0"]	40 [25]	2	0
2	QS2402*	QS3002*	QS3602*	3.08	[10'-1"]	2.64	[8'-8"]	2.74	[9'-0"]	60 [37]	2	1
3	QS2403*	QS3003*	QS3603*	4.00	[13'-1"]	3.56	[11'-8"]	3.66	[12'-0"]	70 [44]	3	1
4	QS2404*	QS3004*	QS3604*	4.91	[16'-1"]	4.47	[14'-8"]	4.57	[15'-0"]	80 [50]	3	2
5	QS2405*	QS3005*	QS3605*	5.83	[19'-1"]	5.38	[17'-8"]	5.49	[18'-0"]	90 [56]	4	2
6	QS2406*	QS3006*	QS3606*	6.74	[22'-1"]	6.30	[20'-8"]	6.40	[21'-0"]	100 [62]	4	3

KEY	
① CARTRIDGE	⑦
② DIAPHRAGM	⑧
③ FENDER PANEL	⑨
④ MONORAIL	⑩
⑤ NOSE ASSEMBLY	⑪
⑥ BACKUP	⑫

REFERENCES	
SERIAL NO.	_____
SALES ORDER	_____
EH PROJECT	_____
DESIGN SPEED	SEE TABLE
NOSE TYPE	_____
NO. OF UNITS	_____

DRAWN: S. LEWIS	DATE: 3/21/1996	MODEL NO: SEE TABLE			
CHECKED: J. MACHADO	DATE: 6/7/1996	FILE: QSTSCVR-U.idw			
UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN METERS [INCH]. DIMENSIONS ACCORDING TO ASME Y14.5M-1994 AND CEMC-THP-SE-003 UNLESS OTHERWISE SPECIFIED.					
Revision	ECO	Date	Rev	By	Chk.
REDRAWN IN INVENTOR	---	4/23/13	J	RJV	/
REF. 625650 WAS 607113 & 604570 WAS 35-40-03	4688	2/23/17	K	WWL	ARV
REMOVED BAYS BEYOND TL-3, ADDED INFOS TO NOTE 3, REVISED NOTE 9	5107	12/19/17	L	RJV	RCB

UNIDIRECTIONAL

QUADGUARD® SYSTEM
WITH TENSION STRUT BACKUP

DO NOT SCALE DRAWING

DRAWING: **QSTSCVR-U** REV: L

SHEET: 1 of 1

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