



- NOTES:
1. IN COMPLIANCE WITH THE AASHTO 2011 ROADSIDE DESIGN GUIDE, MANUFACTURER RECOMMENDS REMOVAL OF ALL CURBS AND ISLANDS TO ENSURE PROPER IMPACT PERFORMANCE.
 2. PROVISION SHALL BE MADE FOR REAR FENDER PANELS TO SLIDE REARWARD UPON IMPACT 762 [30.00] MIN.
 3. 150 [6.00] MIN. REINFORCED 28 MPa [4000 PSI] P.C. CONCRETE PAD OR 200 [8.00] MIN. NON-REINFORCED 28MPa [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.
 4. SEE THE "QUADGUARD II 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.
 5. WHERE NECESSARY, THE CUSTOMER SHALL SUPPLY AN ADEQUATE TRANSITION FROM THE QUADGUARD II SYSTEM TO THE OBJECT BEING SHIELDED.
 6. UNITS OF MEASUREMENT ARE MILLIMETERS [INCHES] UNLESS OTHERWISE NOTED.
 7. BACKUP, MONORAIL, AND NOSE ASSEMBLIES ARE NOT INCLUDED IN MODEL NUMBER, ORDER SEPARATELY.
 8. THE QUADGUARD II SYSTEM HAS BEEN TESTED TO NCHRP 350.

* SYSTEM CAPACITY ESTIMATED THROUGH CALCULATION

BAYS	610 [24"] WIDTH	762 [30"] WIDTH	914 [36"] WIDTH	1220 [48"] WIDTH	SYSTEM LENGTH		EFFECTIVE LENGTH		PAD LENGTH		MAX DESIGN SPEED		NO. OF CARTRIDGES	
	MODEL NO.	MODEL NO.	MODEL NO.	MODEL NO.	m	ft-in	m	ft-in	m	ft-in	Km/h	[MPH]	TYPE I	TYPE II
1*	QG24024	QG24030	QG24036	QG24048	2.13	[7'-0"]	1.73	[5'-8"]	2.74	[9'-0"]	40	[25]	2	0
2	QG27024	QG27030	QG27036	QG27048	3.05	[10'-0"]	2.64	[8'-8"]	2.74	[9'-0"]	70	[43]	2	1
3*	QG28024	QG28030	QG28036	QG28048	3.96	[13'-0"]	3.56	[11'-8"]	3.66	[12'-0"]	80	[50]	2	2
4*	QG29024	QG29030	QG29036	QG29048	4.87	[16'-0"]	4.47	[14'-8"]	4.57	[15'-0"]	90	[56]	3	2
5	QG210024	QG210030	QG210036	QG210048	5.79	[19'-0"]	5.38	[17'-8"]	5.49	[18'-0"]	100	[62]	3	3

KEY	
① CARTRIDGE	④ MONORAIL
② DIAPHRAGM	⑤ NOSE ASSEMBLY
③ FENDER PANEL	⑥ BACKUP

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

DRAWN: D. Kohfeld	DATE: 2/25/2009	MODEL NO. SEE TABLE			
CHECKED: MJB	DATE: 3/19/2009	FILE: QG2TSCVR-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.
ADDED NOTE ABOUT SYSTEM CAPACITY & ASTERISKS IN TABLE	4211	4/29/16	F	DDS	RCB
REF. 625650 WAS 607113, 604570 WAS 35-40-03 & 611367 WAS 35-40-75	4688	3/8/17	G	WWL	ARV
REMOVED BAYS BEYOND TL-3, ADDED INFO TO NOTE 3, REF. 35-40-06 WAS 611367, 35-40-11 WAS 35-40-76	4885	8/24/17	H	JMS	RCB

UNIDIRECTIONAL

QUADGUARD® II SYSTEM
WITH TENSION STRUT BACKUP

DRAWING: **QG2TSCVR-U** REV: H SHEET: 1 of 1

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