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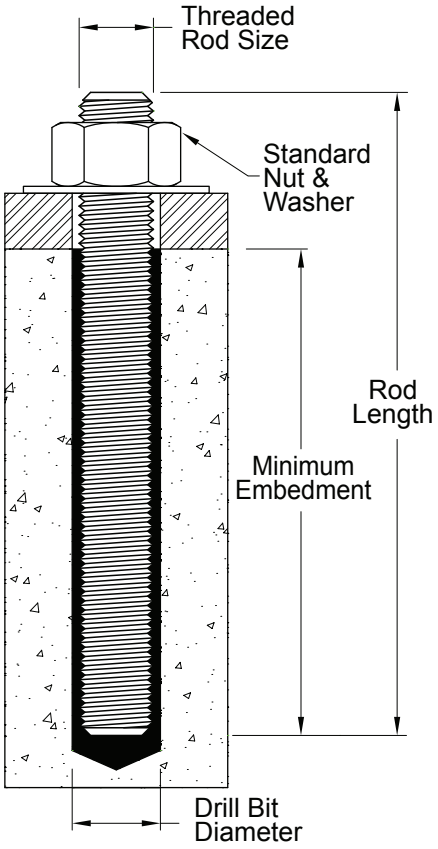
JOB NAME _____
CUSTOMER _____
CUSTOMER P.O. _____
MASON M.I. _____
DWG. NO. _____

SRA
Seismic Rod Anchor

TYPE SRA ANCHOR RATINGS BASED ON ALLOWABLE STRESS DESIGN (ASD)
installed into 2500 psi (17.2 Mpa) Normal Weight Concrete*

Type and Size	A307 Grade C Threaded Rod (F1554 Grade 36)				A193 Grade B7 Threaded Rod				A193 Grade B6 Stainless Steel (Type 410) Threaded Rod				A193 Grade B8 Stainless Steel (Type 18-8, 304) Threaded Rod			
	Tension		Shear		Tension		Shear		Tension		Shear		Tension		Shear	
	(lbs)	(kg)	(lbs)	(kg)	(lbs)	(kg)	(lbs)	(kg)	(lbs)	(kg)	(lbs)	(kg)	(lbs)	(kg)	(lbs)	(kg)
SRA-1/2	2360	1070	1595	720	2360	1070	3440	1560	2360	1070	3410	1545	2360	1070	2325	1055
SRA-5/8	2440	1105	2540	1150	2440	1105	5475	2480	2440	1105	5425	2460	2440	1105	3700	1680
SRA-3/4	4780	2165	3755	1700	4780	2165	8095	3670	4780	2165	8015	3635	4780	2165	5465	2480
SRA-1	7270	3295	6815	3090	7270	3295	14685	6660	7270	3295	14545	6600	7270	3295	9920	4500



*These values are applicable when the anchors are installed with periodic special inspection as set forth in Section 1701.5.2 and Section 1704.13 of the IBC.

TYPE SRA ANCHOR DATA

Type and Size	Threaded Rod Size	Rod Length (in)	Rod Length (mm)	Embedment Depth (in)	Embedment Depth (mm)	Drill Bit Dia (in)	Minimum Concrete Thickness (in)	Minimum Concrete Thickness (mm)	Maximum Tightening Torque After curing (Ft-lbs)	Maximum Tightening Torque After curing (N-m)
SRA-1/2	1/2-13 UNC	7	178	5	127	5/8	7 1/2	190	20	27
SRA-5/8	5/8-11 UNC	8	203	6	152	3/4	9 1/4	235	30	41
SRA-3/4	3/4-10 UNC	9	229	7	178	7/8	10 3/4	273	45	61
SRA-1	1-8 UNC	11	280	9	229	1 1/8	14	355	80	108

For combined allowable stress design tension and shear forces on anchors, use the following equation:

$$\frac{T_{Applied}}{T_{Allowable\ (ASD)}} + \frac{V_{Applied}}{V_{Allowable\ (ASD)}} \leq 1.2$$

NOTES:
1. All values are for single anchors with no edge distance or spacing reduction and assume supplementary reinforcement condition B. Shear values exclude consideration of the concrete breakout failure mode.
2. Anchorage must be designed in accordance with AC308 & ACI 318-05 Appendix D.
3. Allowable loads are for the attachment of non-structural components.
4. Allowable loads are based on 100% seismic loading in seismic design categories C-F.
5. All values assume installations in dry concrete substrates and service temperature below the following maximums: 75°F 24°C maximum long term temperature and 110°F 43°C maximum short term temperature.

CURE SCHEDULE†

Concrete Temperature °F	Concrete Temperature °C	Cure Time (Hrs.)
50	10	72
70	21	24
90	32	24
110	43	24

†For water saturated concrete, these times should be doubled.

Anchors have the following Code Reports:
- ICC-ES-ESR-2508 and City of Los Angeles Report RR25744 for cracked & uncracked concrete
- NSF/ANSI Standard 61 (216in^2 / 1000 gal)

CERTIFICATION DATA Mason Industries Designs are in accordance with ACI 318-05 Appendix D

TYPE	QTY.	TAG