

QA Sampling - Cable System/E2 Bearings & Shear Keys

Description	Size	Material & Grade	Coating	Dwg Quantity Required	Spare Fasteners	Finished Item (Notes 10, 11, 12)	Material Only (Notes 10 & 13)	Comments
						Bolt/Rod quantities to be sent to Translab	Material sample quantities to be sent to Translab	
Cable Band Bolts	51mm dia x 610	A354 BC	HD Galv	1260	20	5	0	30 Bolts are required in addition to those listed in the table per Section 10-1.60 "Cable System," for tensile testing & load extension curves
Cable Band Bolts	51mm dia x 710	A354 BC	HD Galv	48	T.B.D. by ABF	1	0	
Cable Band Anchor Rods	75mm dia x ###	A354 BD	HD Galv	24	T.B.D. by ABF	1	2	In all cases, three (3) samples per heat are required. At the Contractor's option, 3 full size finished items may be furnished.
Tower Saddle Tie Rods	4" dia x ###	A354 BD	HD Galv	24	T.B.D. by ABF	1	2	In all cases, three (3) samples per heat are required. At the Contractor's option, 3 full size finished items may be furnished.
East Saddle Tie Rods	3" dia x ***	A354 BD	HD Galv	18	T.B.D. by ABF	1	2	In all cases, three (3) samples per heat are required. At the Contractor's option, 3 full size finished items may be furnished.
East Saddle Anchor Rods	50mm dia x ***	A354 BD	HD Galv	32	T.B.D. by ABF	1	2	In all cases, three (3) samples per heat are required. At the Contractor's option, 3 full size finished items may be furnished.
West Deviation Saddle Tie Rods	1.75" dia x ***	A354 BC	HD Galv	42	T.B.D. by ABF	1	2	In all cases, three (3) samples per heat are required. At the Contractor's option, 3 full size finished items may be furnished.
West Deviation Saddle Anchor Rods	50mm dia x ***	A354 BC	HD Galv	168	T.B.D. by ABF	1	2	In all cases, three (3) samples per heat are required. At the Contractor's option, 3 full size finished items may be furnished.
Jacking Saddle Tie Rods	1.5" dia x ***	A354 BC	HD Galv	8	T.B.D. by ABF	1	2	In all cases, three (3) samples per heat are required. At the Contractor's option, 3 full size finished items may be furnished.
Suspender Socket Anchor Rods - Type I	90mm dia x ***	A354 BC	HD Galv	352	T.B.D. by ABF	1	2	In all cases, three (3) samples per heat are required. At the Contractor's option, 3 full size finished items may be furnished.
Suspender Socket Anchor Rods - Type II	100mm dia x ***	A354 BC	HD Galv	48	T.B.D. by ABF	1	2	In all cases, three (3) samples per heat are required. At the Contractor's option, 3 full size finished items may be furnished.
Tower Suspender Anchor Rod	90mm dia x ***	A354 BC	HD Galv	16	T.B.D. by ABF	Included with Type I Suspender	Included with Type I Suspender	
E2 Shear Key	76mm dia x ***	A354 BD	HD Galv	192	T.B.D. by ABF	1	2	In all cases, three (3) samples per heat are required. At the Contractor's option, 3 full size finished items may be furnished.
E2 Shear Key	76mm dia x ***	A354 BD	HD Galv	336	T.B.D. by ABF	1	2	In all cases, three (3) samples per heat are required. At the Contractor's option, 3 full size finished items may be furnished.
E2 Bearing	76mm dia x ***	A354 BD	HD Galv	96	T.B.D. by ABF	1	2	In all cases, three (3) samples per heat are required. At the Contractor's option, 3 full size finished items may be furnished.
E2 Bearing	50mm dia x ***	A354 BD	HD Galv	224	T.B.D. by ABF	1	2	In all cases, three (3) samples per heat are required. At the Contractor's option, 3 full size finished items may be furnished.
Main Cable Anchor Rods	90mm dia x ###	A354 BD	HD Galv	274	T.B.D. by ABF	1	2	In all cases, three (3) samples per heat are required. At the Contractor's option, 3 full size finished items may be furnished.

- Notes/Legend:
- 1) Quantities for testing are per Lot. (Lot implies same diameter, length, heat, as well as heat treatment batch)
 - 2) The number of samples indicated will be for Caltrans Lab testing.
 - 3) Quantities listed do not take into account re-testing criteria due to failure
 - 4) This list is NOT all inclusive. Items not listed are to follow the sampling size table in Section 10-1.59 "Steel Structures" of the Contract Special Provisions
 - 5) ### = Fastener length varies; length to be determined by ABF's Means & Methods; *** = Fastener length to be determined by ABF's Means & Methods
 - 6) A354 does not have metric equivalent. All Fastener diameters will be in imperial. Those shown in imperial were requested in RFI #278R0 & #281R1. Contract Plans - General Note allows for size substitution as clarified in RFI #65R0
 - 7) ASTM A354 requires that the number of tests conform to ASTM F1470 and performed in accordance with ASTM F606
 - 8) Number of tests/requirements for ASTM F1470 not shown
 - 9) Quantities assume that no ROCAP testing required.
 - 10) Quantities provided are ONLY applicable if manufacturer passes Department Audit
 - 11) Finished Items shall be fabricated full-size; the Engineer will select one at random, and the fabricator may send to Trans Lab either this sample OR a 1200 mm length cut from a threaded end of the sample.
 - 12) Each Finished Item sample shall include the same number of washers, nuts, or similar components that will accompany an item's field installation.
 - 13) "Material Only" denotes a sample 300 mm in length (minimum) which need not be threaded; it shall be from the same rod stock/heat treatment lots as the finished product.