

Evaluation Table:

PEP ID:	
Manufacturer:	
Product Name:	

731 Breakaway Bases

ADOT Specifications: Stored Specification 731STRSUP, T.S. 5-0, T.S. 5-1, T.S. 5-2

Product Property	Specification/ Test Method	Requirement	Results	Pass/ Fail
Fabrication	731-2.02(B)(4)	Break-Away bases shall be fabricated from 356 T6 aluminum alloys and shall have a stainless steel wheel abraded finish.		
Hardware	731-2.02(B)(4) T.S. 5-0	The break-away base shall have all the necessary hardware to make a complete and functional unit, which includes 4 high-strength bolts (ASTM F3125 GR A325), utilizing 1 hex nut, 1 flat washer, and 1-2.75" OD x 1-1/16" ID x 1/2" thick steel washer per bolt.		
Bolts, Nuts, Washers	731-2.02(B)(4) ASTM F3125	Bolts, nuts, and washers connecting the pole to the break-away base shall be fabricated from steel conforming to the requirements of ASTM F3125 Grade A325.		
Bolt Galvanization	731-2.02(B)(4) T.S. 5-0 ASTM F2329	Bolts shall be galvanized in accordance with the requirements of ASTM F2329.		
Washer Galvanization	731-2.02(B)(4) T.S. 5-0 ASTM B695-85 ASTM F2329	The 2-3/4" x 1/2" thick washers shall be zinc mechanically coated per ASTM B695-85 Class 50 or shall be galvanized per the requirements of ASTM F2329		
Welding	731-2.02(B)(4) AWS D1.2	Welding of all components of aluminum break-away bases shall conform to the AWS D1.2 Specifications.		
Certification	731-2.02(B)(4)	Break-away bases shall be certified by the manufacturer to meet or exceed the change in momentum requirements of the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, and to be acceptable for use on Federal Aid projects.		

Product Property	Specification/ Test Method	Requirement	Results	Pass/ Fail
Certification	731-2.02(E)	The manufacturer shall certify that the break-away base has been tested and approved by the Federal Highway Administration and that the casting has the same chemistry, mechanical properties, and geometry as the casting used in the tests.		
Labeling	T.S. 5-0	The caution and use instructions label shall be secured inside the base on the wall opposite of the access door plate or on the cover itself.		
Standard Conformance	T.S. 5-0	The base, as supplied and installed, shall conform to all applicable AASHTO, NCHRP, and FHWA requirements for frangibility bases for roadway light poles.		
Type 2 Cast Aluminum	T.S. 5-1	Type 2 cast aluminum breakaway bases shall conform to requirements detailed in Standard Drawing T.S. 5-1.		
Type 3 Cast Aluminum	T.S. 5-2	Type 3 cast aluminum breakaway bases shall conform to requirements detailed in Standard Drawing T.S. 5-2.		