

March 16, 2016

Paul Carty
Vice President
State Contracting and Engineering
3800 N 29th Ave.
Hollywood, Florida 33020

RE: Seminole Middle School, Whiddon-Rogers Education Center
Capacity of Asphalt Anchors Bolthold SP12, by AAG

Dear Mr. Carty,

In response to SCEC's request, we have reviewed videos of tests to determine the pullout strength of asphalt anchors, Bolthold SP12, by AAG. Test setup is per CEC (see picture). These anchors will be used to secure temporary cooler units for wind per ASCE7-10 at the Seminole Middle School, 6200 SW 16th Street, Plantation, FL 33317, and at the Whiddon-Rogers Education Center, 700 Southwest 26th Street, Fort Lauderdale, FL 33315.

Test apparatus: jack, load gage, blocking, HSS beam, see picture below



Procedure

- Install asphalt anchor in parking lot per manufacturer instructions
- Set up test apparatus (see picture)
- Apply load to anchor in 1000 lb increments up to 2000 lbs with 30 second pause between load increment application
- Apply load to anchor in 500 lb increments above 2000 lbs with 30 second pause between load increment application

Observations

- On application of the each 1000 lb load increment a relaxation of 200 lbs was observed in the gage within the first 15 seconds of the application of the load with no further drop after
- At an applied load of 3000 lbs, the system stabilized at 26000 lbs
- Ultimate load was 3500 lbs with the asphalt rising in a cone and the gage reading dropping quickly

Conclusion

- The tests show that the anchor can withstand a load of 2500 lbs without damage to the surface asphalt, such as, rising in a cone or cracking

Subsurface conditions in soil and engineered paved surfaces vary greatly. As such, a safety factor of 2 is applied to the observed load capability of the anchor. We certify that the capacity of the Bolthold SP12, by AAG is 1250 lbs when used at the Seminole Middle School parking lot, 6200 SW 16th Street, Plantation, FL 33317 and at the Whiddon-Rogers Education Center parking lot, 700 Southwest 26th Street, Fort Lauderdale, FL 33315.

Sincerely,

Construction Engineering Consultants,

Francis J. Bain, P.E. (FL 76197)
President

