

### Background

Since 2009, we have seen a wide use of our BoltHold anchors for fixing tents, canopies, and other fabric shelters to asphalt surfaces. Most tent installations are temporary — from days to years. A common requirement is fast and economical installation.

### Methods of Securing Tents

All tents require at least one pole to raise the canvas off the ground. A tent can be secured to the ground using a combination of tent-pegs, anchors and guy wires.

When it comes to emergency structures like hospital expansions, a likely surface is a asphalt parking lot. That is preferred to potentially muddy fields and are usually close by to the main buildings of the facility.

Tents that have a self-supporting frame are often installed using anchors that attach plates at the bottom of the poles directly to the ground.

Guy wires are used for structures that are not self supporting. The wires are secured to the ground using tent pegs that are hammered into the ground. In the case of asphalt, the pegs cause serious damage to the surface. Even more damage will occur when the pegs are pulled out at the end of the emergency.

### Anchoring directly to asphalt

Asphalt anchors can be used instead of pegs and to attach pole plates directly to the ground. These anchors eliminate the need to dig out sections of the asphalt and



pour concrete, wait for the concrete to cure for 24 hours and then drill and install expansion anchors in the concrete. Instead, a hole (7/8" up to 1-1/2") is drilled in the asphalt, a special grout is poured and the anchors are pushed in until flush with the surface. 15 minutes later the anchors are ready to accept bolts (for plates) or eyebolts (for guy wires).

When it comes time to remove the installation, the bolts are unscrewed from the anchors. The anchors can stay in the asphalt and will not be an impediment to cars or pedestrian as they are flush with the surface. The anchors can be used if another emergency requires the installation of the tent.

### Anchor Pull Resistance

BoltHold anchors come in 4 sizes, with holding capacity of 1,500lb. to 5,000 lb.

## Experience

BoltHold anchors have been used for the last 11 years to tie down large (5,000 sq. ft) modular buildings against hurricane winds (right). This installation in NJ was completed in march 2018. A detailed certification report prepared by a leading PE company is available on our website.

<https://tinyurl.com/wbko4cn>



Courtesy TentCraft



This tent was installed in a high wind area in the Rockies using our SP10 anchors (1,500 lb. rating). It has withstood numerous winter storms.

Our SP12 anchors are being used nationwide to secure shopping cart corrals for a large super-market.



## Products

Model	Thread x length	Pull rating	drill
SP10	3/8" x 6"	1,500	7/8"
SP12	3/8" x 12"	2,000	7/8"
SP18	7/16" x 12"	2,500	1"
SP58	5/8" x 10"	5,000	1-1/2"



## Consult with Us

We have been designing, installing and marketing anchors for asphalt long enough to know where our products will work and where they will not. Contact us or our representatives for free consultation.

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