

Installation of a SS Niche for underwater lights

All lights should be installed by a certified electrician in accordance with the National Electric Code and all releveant local codes

1. Install the niche in the side wall and using holes in the flange surrounding the niche, anchor securely to rebar. For fountains check your space to the top of the pool. The niche may need to be rotated to allow space required to attach a sweep elbow to the conduit connection
2. After anchoring to re-bar, re-check that the niche is 100% level.
3. Attach 3/4" conduit to the niche using a sweep elbow to pass the cable through.
4. Connect copper bonding wire (#8 AWG solid for installation in USA or #6 AWG stranded for installation in Canada) to the copper lug supplied with niche and terminate.

Ensure it is encapsulated in UL listed potting compound to protect from possible eroision caused by chemicals used to treat the water.

5. After the pool has been formed, surround the niche with plaster to ensure a fully water tight seal.

6. Install the light fixture leaving enough cable inside the niche to lift the light above the water and set on the deck for future maintenance. Inside the niche is a cord seal that should be tightened to keep the niche water tight.

7. The cable is then run through the conduit to a junction box. Flush deck mount junction boxes can be used when installing 12VAC lights if located at least 4 feet from the inside wall of the pool.

All junction boxes must be filled with an approved potting compound to prevent the entrance of moisture.

NEC 680.24

