

# LEDGE Rock Installation

C U S T O M   P L A Y   E N V I R O N M E N T S



## SPECIFICATIONS AND DESCRIPTION

Manufactured from color integrated Glass Fiber Reinforced Concrete (GFRP). Glass fiber is Alkali Resistant (AR) type glass formulated for concrete. GFRP shall be 1,500 pounds per square inch in tension, 5,000 lbs per square inch in compression. Hardened GFRP is colored with an integral color, remainder of log is sealed with a V-Seal. Final coloring is achieved with a latex stain made for concrete. GFRP is readily repairable no matter the age of the material.

The estimated delivery date will be confirmed within 24 hours prior to shipping. If delivery date is changed a service charge of 10% of the shipping charge will be added to the rescheduled shipping. It is the responsibility of the installation contractor to coordinate with the driver to insure timely offloading.

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## INSTALLATION

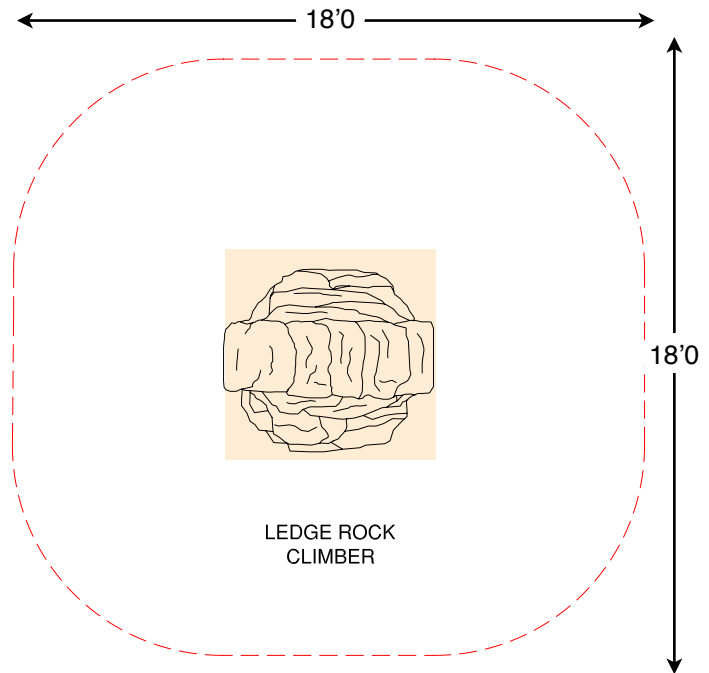
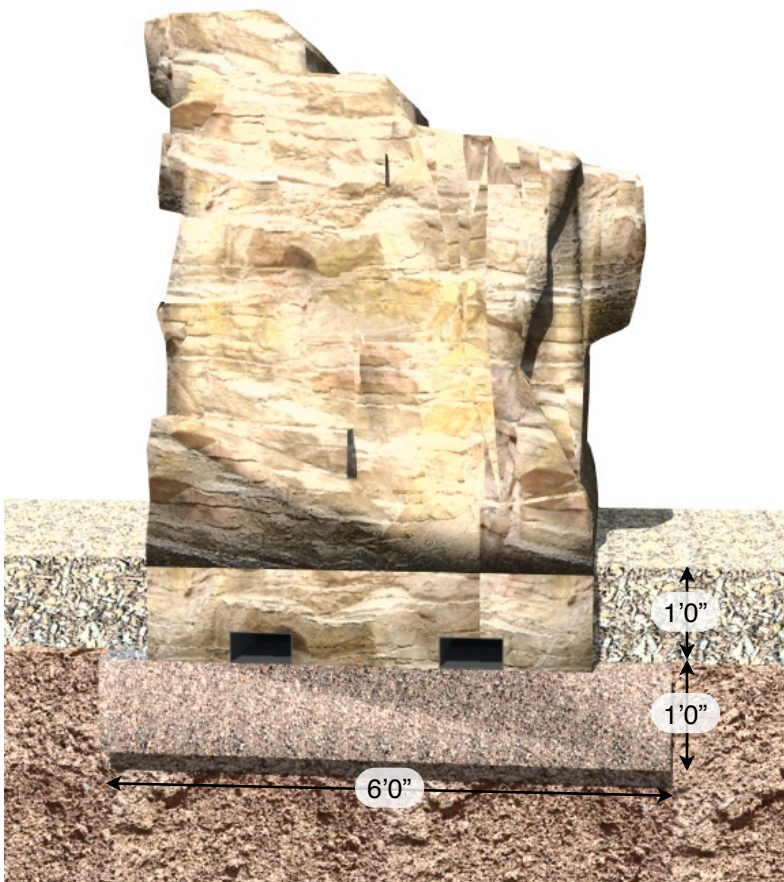
Read Installation Instructions thoroughly before starting installation process.

**STEP 1:** Foundation shall be prepared in advance of delivery of the climber. Base shall be compacted stone base - 12" minimum thickness with a vibratory compactor - to be determined by local soil conditions. Density requirement is 95% compaction with final condition of stone as level and stable so as not to shift when traveled on or during surface installation process. Area shall be 6' x 6'.

**STEP 2:** LEDGE Rock is shipped in one piece to site. Fork Lift pockets are built in for lifting. Placement of components shall be placed with a Lull-type Forklift or equivalent capable of lifting 3,000 lbs centered on the compacted stone foundation. Test overall stability and rigidity of equipment. Take care in protecting the LEDGE by not making contact with concrete surface with installation equipment. Utilize foam or other means to protect item from damage while moving into place.

**STEP 3:** Install provided Fork Lift pocket covers.

**NOTE:** Shock absorbing properties of safety surfacing materials vary. If you determine that less or more than 12" of surfacing is required, make up the difference in elevation with earth and base before applying the surface. A soft, resilient surface should be placed around all climbers, extending at least six feet in all directions surrounding the climber. **NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT.** A fall on hard surface can result in serious injury to the equipment user.



Cre8Play LLC, reserves the right to change the specifications or other contents of the documents from time to time without notice.



## **Efflorescence on Concrete**

Efflorescence is caused when soluble salts and other water dispersible materials come to the surface of concrete and mortars. It's induced by low temperatures, moist conditions, condensation, rain, dew, and water added to the surface of fresh concrete to assist embossing. It can occur very soon after exposure to moist or cool conditions or gradually, especially when it comes from within the concrete. Any material containing portland cement results in efflorescence. The most usual reaction occurs when calcium hydroxide (lime) formed in the hydration reaction of portland cement (approximately 140 pounds per cubic yard of concrete) is transported by water to the surface through capillaries in the concrete. There it combines with carbon dioxide from the air to produce calcium carbonate (an insoluble material) and water.

The easiest time to remove calcium hydroxide efflorescence is before it combines with carbon dioxide. Up to this time it will dissolve in water, so pressure washing or wet scrubbing will put it in solution with water so it can be rinsed away.

Note: All concrete has naturally occurring hairline cracks and these are not product defects or structural in any way. Some of the small micro cracking may be more visible due to the efflorescence exposing it.