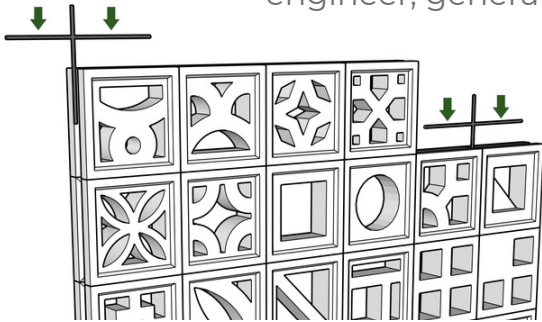




UNDERSTANDING INSTALLATION REQUIREMENTS

Breeze Blocks are decorative, and are not intended for load-bearing walls. Breeze block wall spans should not exceed 3 meters (9.8 feet). Structural pilasters, steel H-beams, steel bar plates, or other similar vertical supports should be incorporated to allow for longer walls. Lintel beams or similar load-bearing structures should be incorporated for walls exceeding 2.5 meters (8 feet) in height. These supports should meet your local building code, and be planned by a structural engineer, general contractor, or other licensed professional.



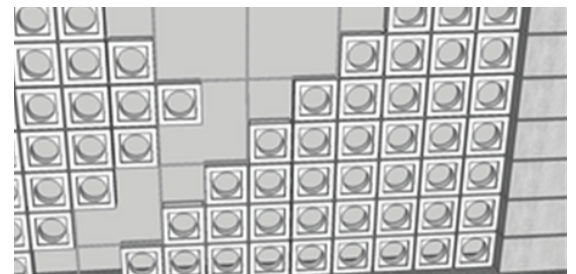
Our Breeze Block designs incorporate channels to accommodate steel dowel or rebar reinforcement, to anchor installations to the surrounding structure and increase the wall's flexural strength. Consider using epoxy-coated rebar, or other forms of corrosion protection, to extend the lifespan of your structure.

The steps listed here lay out general guidelines, but may not be sufficient for every application. Please make sure that your installation procedure follows local building codes.

❏ PREPARING THE FOUNDATION

Ensure the foundation and substrate is:

- Capable of bearing the weight of the screen wall segment.
- Clean and level.
- Suitable for mortar installation.



❏ SELECTING THE MORTAR

Use conventional cementitious mortar (mortar mix, masonry mix) of an appropriate grade for the project. Note that white mortars are available, which use only white sand, and white cement. Ensure that the mortar purchased meets ASTM requirements for the application.

The thickness of the mortar layer should be around 2 inches. It will aid in maintaining enough mortar layer binding when the weight of the top layers forces the lower mortar layers to become thinner. Understand and follow the directions for the mortar used.



CEMENT NEEDS WATER TO CURE

While it is easy to think of waiting for cement to cure as “drying”, it is actually a chemical process that consumes water and continues forever. Luckily, almost all of the strength is achieved in the first 28 days, and about 70-75% of that strength is achieved in the first 7 days.

In preparation for setting the blocks, submerge them momentarily in water (at least 1 minute). This ensures that the dry blocks do not absorb too much moisture from the mortar, preventing the joints from curing properly.



After laying the blocks, frequently water the installation a minimum of 4 times a day for 5 days, however up to 10 times per day for a full 7 days is preferred.

INSTALLATION METHOD

Install by using standard masonry techniques.

- Begin your installation at corners or against pilasters, working towards the middle.
- Use a 5mm-10mm grout joint (approx $\frac{3}{8}$ ”).
- Maximum 2cm grout joint (approx $\frac{3}{4}$ ”).
- Insert steel reinforcement every 3rd course (for 7.5” blocks).
- Make sure not to build too fast for the selected mortar. Your professional mason will know if the grout has cured enough, before continuing with higher courses.

AFTER INSTALLATION

- Make sure to maintain proper hydration for 7 days.
- Expect about 30 days before the installation can be painted, or other finishes applied, depending on the local climate.

CONCLUSION

- Breeze Block installation is not a DIY project.
- Installation should be done by a professional mason.
- The project should be overseen by a licensed general contractor.
- Larger installations should be planned by a structural engineer.
- Local building codes supersede any recommendations in this document.



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