



Installation Instructions

Rev. 0 April 1, 2017

The RENCo Modular Wall System is a proprietary composite structural system comprised of sheet molded compounds (SMC) which consist of fiber reinforced composite (FRC). These compounds are then compression thermoset molded into patented pre-engineered interlocking structural shapes that possess tremendous compressive, flexural and tensile strengths and outstanding fire resistance qualities. The RENCo Modular Wall System is currently limited for use as above grade load bearing and non-load bearing walls and shear walls in Type V-A and V-B construction. Shear walls are limited to Seismic Design Categories (SDC) A and B only.

In as much as this product is unique and is not like concrete, steel, wood or other conventional building materials, the following Installation Instructions must be followed to ensure optimum strength and durability of the finished wall systems.

Shipping, receipt and storage

- Records and traceability – Ensure components delivered match bill of lading and purchase order. Retrieve and file product labels from each pallet to facilitate future traceability as may be needed.
- Protection from weather and UV rays – Components must be stored out of the weather and sunshine. Opaque tarps shall be employed as a minimum to help mitigate the effects of UV rays.
- Cleanliness – Components must be maintained in a clean condition, otherwise they will not interlock and seat properly.

Safety & handling

- Personnel protection – Crafts shall wear long sleeves, pants and gloves when handling and assembling components. Additionally, paper masks and safety glasses shall be used when drilling, fastening and otherwise cutting components.
- MSDS - Attached
- OSHA – Follow all applicable OSHA requirements and job-site safety rules.

Layout and installation

- Components will not interlock and seat properly if site preparation, foundation systems and slabs on grade are not level, true and square.
- Visually inspect components for chips and cracking. Discard substandard materials.
- Starter blocks shall be fastened to foundation systems per plans and specifications and manufacturer's instructions.

- RENCo Modular Wall System components contain integral water dams that help mitigate the transfer of moisture from exterior conditions. Care must be taken to ensure components are assembled maintaining the integrity of these water dams.
- Care to follow approved architectural and engineering plans and specifications
- RENCo Modular Wall Systems load bearing and shear walls shall be adhered at every course using RENCO 2-Component Adhesive, filling the top internal channels of each block with a nominal 15MM depth bead of adhesive to within 10 mm of the block edges. The 2 adhesive components are applied at a 1:1 ratio, and are covered by the connecting block within 2 minutes of the adhesive being applied. The adhesive can be applied with substrate temperatures ranging from 40°F to 140°F, and is only applied to one of the contact surfaces. Drying times for the adhesive will vary with temperature, but the adhesive has an effective bond in less than 1 hour. The adhesive shall be stored covered, temperature between 40°F -80°F, and for no longer than 7 months from production date. The exterior cladding system shall be fastened with RENCO Flat-Head No. 10 x 0.75/1.0” long fasteners, at a rate designated by the cladding performance requirements.,
- Field modification of the RENCo Modular Wall System is prohibited other than for mechanical electrical and plumbing rough-ins and devicing.
- Use fire treated wood blocking where indicated on drawings for windows, doorways and other fenestration openings.
- Apply exterior and interior finishes as soon as practical.

Customer Services Contact

RENCO USA, Inc.
Customer Service
5959 Blue Lagoon Drive, Ste. 200
Miami, FL 33126

customerservice@RENCO-USA.com