AUTHORIZATION TO MARK

This authorizes the application of the Certification Mark(s) shown below to the models described in the Product(s) Covered section when made in accordance with the conditions set forth in the Certification Agreement and Listing Report(s). This authorization also applies to the Multiple Listee model(s) identified on the correlation page of the Listing Report. This document is the property of Intertek Testing Services and is not transferable. The Certification Mark(s) may be applied only at the location of the Party Authorized to Apply Mark.

Applicant:	RENCo USA, Inc. 5959 Blue Lagoon Drive Suite 200 Miami FL 33126
Country:	
Contact:	Ken Smuts
Phone:	305.559.4900
Fax:	
Email:	KSmuts@renco-usa.com
Party Authorized to Apply Mark:	See following page(s)
Evaluation Center:	Intertek (York)

Control/Client Number: 304015

Authorized By:
Dean Davidson, Director of Certification

Intertek Testing Services NA, Inc.
545 E. Algonquin Road, Ste H., Arlington Heights, IL 60005 USA
Phone: 847-439-5667 Fax: 847-439-7320

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This document supersedes all previous Authorizations to Mark for the noted Report Number.

Testing Standard(s):	:ASTM D635 (2006):ASTM D2843 (2004):NFPA 286 (2015):ASTM D1929 (2014):ASTM E330 (2014):ASTM E72 (2015):ASTM E119 (2016a):ASTM E84 (2016)
Product:	RENCo USA - Composite Modular Block

ATM for Report G7610.01-117-38 **ATM Issue Date:** 04/28/2017

Listing Section(s): WALL ASSEMBLIES

CSI Code: 07 70 00 Roof and Wall Specialties and Accessories

Description:

RENCo USA, Inc. Composite Modular FRP blocks are stacked in running bond pattern to assemble load bearing and non-load bearing wall panels.The modular blocks are nominal 8 inch high, 8 inch wide and produced in various lengths. When assembled, each course of block is adhered to the lower course with Plexus®MA530; a partmethacrylate adhesive, applied according to the manufacturer's instructions. RENCo composite wall assemblies are finished on the exterior with Master Wall® Aggre-flex EIFS cladding identified in IAPMO Evaluation Report Number ER-433.

MATERIAL RATINGS

Test Standard	Test Type	Rating
ASTM D6117	Standard Test Methods for Mechanical Fasteners in Plastic Lumber and Shapes *Concealer* Steel zinc platted, self-drilling, self-threading #10 -16 Screw x 1 ¼" length	Average Ultimate Load Withdrawal: 255 lb_f Lateral Resistance: 481 lb_f 4mm FRP block material

FLAME SPREAD RATINGS

Test Standard	Description	Results
ASTM E84 (in accordance with ICC-ES AC447, Sect. 4.4.8)	Painted* ½" gypsum board installed over RENco Modular Block. * Sherwin Williams ProMar 200 Interior Paint.	Flame Spread Index: 15 Smoke Developed Index: 0

FIRE RATINGS

Test Standard	Test Type	Rating /Design Number
ASTM D635	Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal	Linear burning rate: 0.075 mm/s

	Position.	
ASTM D1929	Standard Test Method for Determining Ignition Temperature of Plastic. 5.16mm thick FRP	Self-Ignition: 440 °C Flash Ignition: 440 °C
ASTM D2843	Standard Test Method for Density of Smoke from the Burning or Decomposition of Plastics	Smoke Density Rating: 72
ASTM E119 - 1 hour load bearing	Standard Test Methods for Fire Tests of Building Construction and Materials Wall Assembly: FRP block wall with Single Layer of 5/8" type X gypsum in accordance with ASTM C1396, installed on exposed and unexposed face covering FRP block with #6 1 ¼" type W drywall screws spaced 1" from factory edge of gypsum placed at 12" on center horizontally and vertically.	Design No. RUI/WS 60-01 Design Load: 4,133 plf
ASTM E119 - 2 hour load bearing	Standard Test Methods for Fire Tests of Building Construction and Materials Wall Assembly: FRP block wall with Two Layers of 5/8" type X gypsum on exposed and unexposed faces in accordance with ASTM C1396 covering FRP block using #6 1 ¼" type W drywall screws spaced 1" from factory edge of gypsum placed at 12" on center horizontally and vertically.	Design No. RUI/WS 120-01 Design Load: 4,133 plf
NFPA 286	Standard Test Method for Evaluation of Fire Tests for the Evaluation of Contribution of wall and cladding interior finish to room for fire growth. Description of Assembly:	Complies

	RENco modular block wall. Interior sheathed with ½" gypsum board attached with #6 x 1 ¼" long drywall screws, 8" o.c. on the perimeter and 12" o.c. in the field.	

STRUCTURAL RATINGS

Test Standard	Test Type/Description	Rating
ASTM E72	Standard Test Methods of Conducting Strength Tests of Panels for Building Construction Description of Wall Assembly: Wall panel constructed with RENco modular blocks, adhered with Plexus MA530 adhesive in accordance with manufacturer's instructions. 4' wide by 10' high for transverse and tension loads. 8' wide by 8' high for racking	Ultimate Average Transverse Load: 282 psf Average Transverse Load at deflection: L/120: 249 psf L/240 164 psf L/360 128 psf Average Ultimate Tension Load: 5,184 plf with eccentricity 2" from center of wall. Average Ultimate Racking Load (1:1 height to length ratio): 1,050 plf
ASTM E330	Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference, Method B. Exterior cladding: MasterWall Aggre-flex EIFS System identified in IAPMO Evaluation Report Number ER-433 installed on RENco FRP block wall in accordance with ER-433. Exterior details: Layer applied to the exterior side, then metal lathe secured to the wall with #8 x 1-1/4"	Wall Covering Negative Load (Ultimate): 222 psf

	washer head screws spaced 12" o.c. in a grid pattern. A layer of 2" thick EPS insulation adhered by a layer of base coat. A layer of base coat applied to the exterior of the EPS insulation over a layer of woven, glass fiber mesh with AR Coating. The exterior finish coat troweled onto the exterior.	

Party(s) Authorized by Manufacturer To Apply Mark:

RENCo World Corporation
Tirkes-Mah, Tirkes Sokak, No. 499
Saruhanli

Manisa, , Turkey
Vedat Kalkuz
305.300.6380

vedat@kalkuz.com

Party(s) Authorized by Other Parties To Apply Mark:

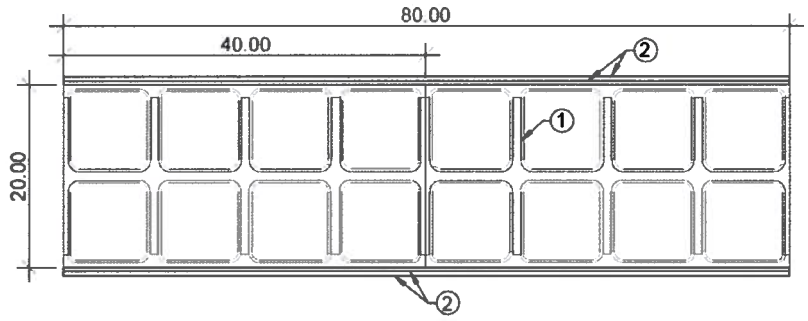
None

DRAWING INDEX

RUI-WS 120-01

Division 07 – Thermal and Moisture Protection
07 77 00 Wall Specialties

RENco USA Inc.
Design No. RUI/WS 120-01
Load Bearing Wall System
Renco Modular Composite Block
ASTM E119 – 2 Hour
Rating: Passed – 4,133 plf



RENco Modular Composite Block
(Dimensions shown are mm)

1. **CERTIFIED MANUFACTURER:** RENco USA Inc.

   CERTIFIED PRODUCT: RENco Fiber Reinforced Composite Modular Wall System, consists of modular building blocks (shown above) stacked in a running bond pattern with each additional course adhered to the lower course with Plexus MA530 Adhesive in accordance with manufacturer's installation instructions. Max. wall height is 10 ft.

   CERTIFIED MODEL: RENco Modular Composite Block

2. **INTERIOR AND EXTERIOR CLADDING:** Install two layers of nominal 5/8 in. thick Type X gypsum board with long dimension perpendicular to horizontal joints of block. Attached to FRP block using #6 W, 1-1/4 in. long bugle-head screws 12 in. on center (oc) around perimeter and 12 in. oc in the field. Second layer of 5/8 in thick Type X gypsum board with joints offset from first layer installed with #6 x 3 in. long bugle-head screws offset by 1 in. of the first layer fasteners.

   A. JOINT TAPE AND COMPOUND – (Not Shown) Vinyl or casein, dry or premixed, joint compound applied to face layers of gypsum board (Item 1) in two coats to all exposed fastener heads and board joints. A min. 2 in. wide paper, plastic, or fiberglass tape is embedded in first layer of compound over joints in gypsum board.

Date Issued: April 26, 2017
Project No. G7610.01

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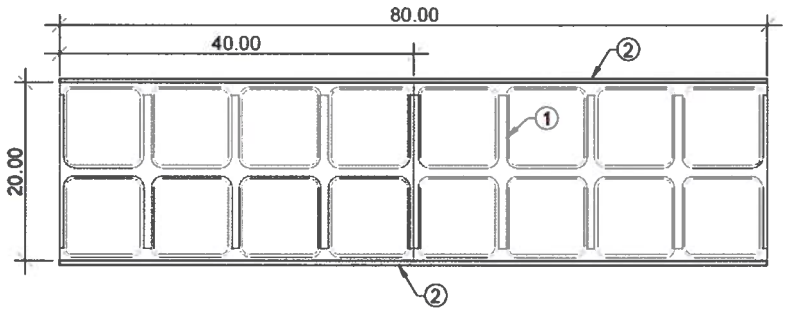
RUI-WS 60-01

Division 07 – Thermal and Moisture Protection
07 77 00 Wall Specialties

RENco USA Inc.
Design No. RUI/WS 60-01
Load Bearing Wall System
Renco Modular Composite Block
ASTM E119 – 1 Hour
Rating: Passed – 4,133 plf



RENco Modular Composite Block
(Dimensions shown are mm)

1. **CERTIFIED MANUFACTURER:** RENco USA Inc.

   CERTIFIED PRODUCT: RENco Fiber Reinforced Composite Modular Wall System, consists of modular building blocks (shown above) stacked in a running bond pattern with each additional course adhered to the lower course with Plexus MA530 Adhesive in accordance with manufacturer's installation instructions. Max. wall height is 10 ft.

   CERTIFIED MODEL: RENco Modular Composite Block

2. **INTERIOR AND EXTERIOR CLADDING:** 5/8 in. thick Type X gypsum board with long dimension perpendicular to horizontal joints of block. Attached to FRP block using #6 W, 1-1/4 in. long bugle-head screws 12 in. on center (oc) around perimeter and 12 in. oc in the field.

   A. JOINT TAPE AND COMPOUND – (Not Shown) Vinyl or casein, dry or premixed, joint compound applied to face layers of gypsum board (Item 1) in two coats to all exposed fastener heads and board joints. A min. 2 in. wide paper, plastic, or fiberglass tape is embedded in first layer of compound over joints in gypsum board.

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