

# TEXAS DEPARTMENT OF INSURANCE

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## PRODUCT EVALUATION FR-01

Effective August 1, 2005

*The following product has been evaluated for compliance with the wind loads specified in the **International Residential Code (IRC)** and the **International Building Code (IBC)**. This product shall be subject to reevaluation 3 years after the effective date.*

*This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.*

*This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.*

**Reward Wall Systems eForm and iForm Insulating Concrete Forms** as manufactured by:

**Reward Wall Systems, Inc.,  
9931 South 136<sup>th</sup> Street, Suite 100  
Omaha, Nebraska 68138  
(402) 592-7077  
www.rewardwalls.com**

will be acceptable as an alternative residential construction method in designated catastrophe areas along the Texas Gulf Coast when constructed in accordance with this product evaluation.

## PRODUCT DESCRIPTION

Reward Wall Systems forms are used as permanent formwork for structural concrete, loadbearing and non-loadbearing, below grade and above grade walls. The forms are used in construction of plain and reinforced concrete beams, lintels, exterior and interior walls, and foundation and retaining walls. The forms remain in place after placement and curing of concrete and shall be protected by approved interior and exterior finishes.

The Reward Wall System eForm forms are classified as a waffle-grid insulating concrete form (ICF) wall system in accordance with Section R611.4 of the IRC. The Reward Wall System iForm forms are classified as a flat ICF wall system in accordance with Section R611.4 of the IRC.

eForm waffle-grid ICF forms consist of two variable thickness expanded polystyrene (EPS) boards (face shells) connected with plastic bridge ties that separate the boards a prescribed core distance and provide a means to attach interior and exterior finishes. The forms are available in a standard length of 48 inches, height of 16 inches, and two standard widths of 9.25 inches and 11 inches. The 9.25 inch form has 6 inch cores and the 11 inch form has 8 inch cores. The cores of the forms are filled with concrete and reinforcing steel to construct a solid variable thickness concrete wall. The eForm concrete wall consists of vertical columns spaced at 12 inches on center and horizontal beams spaced at 16 inches on center

iForm Flat ICF forms consist of two uniform thickness expanded polystyrene (EPS) boards (face shells) connected with plastic bridge ties that separate the boards a prescribed core distance and provide a means to attach interior and exterior finishes. The forms are available in a standard length of 48 inches, height of 16 inches, and four standard widths of 9, 11, 13 and 15 inches. The 9 inch form has a 4 inch concrete core; the 11 inch form has a 6 inch concrete core; the 13 inch has an 8 inch concrete core; and the 15 inch has a 10 inch concrete core. The forms are filled with concrete to produce solid, fat concrete walls. The top and bottom edges of the forms have a loose fit tooth design for interlocking of the units. The taper top form is used to construct corbels in the wall at desired locations. The ledge forms are used to construct corbels that serve as ledges for supporting exterior brick veneers.

### **PRODUCT DESCRIPTION (Continued)**

**Product Identification:** Each pallet of forms shall be labeled with the Reward Wall Systems name and/or trademark, the product name, the inspection agency name and/or trademark (Omega Point Laboratories), and ICC evaluation report number ESR-1552.

### **INSTALLATION REQUIREMENTS**

#### **General Installation Requirements:**

Reward Wall Systems eForm and iForm forms shall be designed and constructed in accordance with the Reward Walls Installation, Structural Technical Manual and this product evaluation report.

Structures constructed of Reward Wall Systems forms shall be designed by a Texas licensed professional engineer to comply with the wind load requirements outlined in Section R301 of the IRC and Section 1609 of the IBC and the applicable building code standards in the designated catastrophe areas adopted by the Texas Department of Insurance.

A set of plans and structural calculations along with a design certificate sealed by a Texas licensed professional engineer shall be submitted to the Texas Department of Insurance's Engineering Division before commencement of construction unless the windstorm inspection and certification is performed by a Texas licensed professional engineer appointed as a qualified windstorm inspector.

The foundation is considered to be part of the structure and must be considered part of the original design. If the foundation is not inspected by the Texas Department of Insurance, it must be certified by a Texas licensed professional engineer appointed as a qualified windstorm inspector. In either case, the plans must indicate the manner in which the structure is to be anchored to the foundation.

**Note:** A set of sealed plans, manufacturer's installation instructions and this product evaluation report must be available to the inspector at the job site at all times. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC) and the International Building Code (IBC).