

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION MC-11

Effective February 1, 2014

*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 **January 2018**.*

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.

Clubhouse Plus Vinyl Railing System manufactured by:

Deceuninck North America, LLC
351 North Garver Road
Monroe, OH 45050
(877) 563-4251

will be acceptable for exterior commercial and residential guardrail applications in designated catastrophe zones along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions and this product evaluation.

PRODUCT DESCRIPTION

Clubhouse Plus Vinyl Railing Systems are an assemblage of co-extruded and molded components using PVC material with aluminum reinforcements. The assembly is constructed of the following components:

- Classic top rail: The classic top rail is a contour co-extruded PVC "breadloaf" profile with overall dimensions of 2.7 inches wide at the top by 2.2" tall with a nominal wall thickness of 0.09 inches.
- T-Rail top rail: The T-Rail top rail is a co-extruded PVC "T" profile with overall dimensions of 3.5 inches wide at the top and 2 inches wide at the bottom by 3.5 inches tall nominal wall thickness of 0.09 inches.
- Commercial, Standard Horizontal and Standard Vertical top and bottom rails: The top and bottom rails are a co-extruded PVC rectangle profile with overall dimensions of 2 inches wide by 3.5 inches tall with a nominal wall thickness of 0.09 inches.
- Balusters: The Balusters are provided in two styles: 1.25 inches square, hollow, extruded PVC picket or 1.25 inches hollow, thermoformed PVC spindle.

The components are produced in three colors: Clay, Sandstone and White.

Reinforcement: The railing systems are reinforced as follows:

- Classic railing systems: The Classic railing systems are reinforced in the top rails with an extruded 6005-T5 aluminum alloy "H" insert with overall dimensions of 1.977 inches wide by 1.628 inches tall and nominal thickness of 0.125 inches.

- Commercial railing systems: The Commercial railing systems are reinforced in the top and bottom rails with an extruded 6005-T5 aluminum alloy “Heavy U” insert with overall dimensions of 1.75 inches wide by 2.625 inches tall.
- Standard Horizontal, Standard Vertical, and T-Rail railing systems: The Standard Horizontal, Standard Vertical, and T-Rail railing systems are reinforced in the top and bottom rails with an extruded 6005-T5 aluminum alloy “Modified H” insert with overall dimensions of 1.977 inches wide by 1.628 inches tall and nominal thickness of 0.125 inches.

LIMITATIONS

Top and bottom rails: The top and bottom rails shall be fastened to minimum treated Southern Pine ($G \geq 0.55$). The rails and components are secured in accordance with Table 1.

Design Wind Pressures: The maximum allowable load on the top rail shall be 50 plf.

Table 1 – Fastening Schedule

Clubhouse Plus Guardrail Component		Connection	Fastener	Quantity
Classic and Standard Horizontal	Level	Rail bracket to post	No. 10 x 1 ½” stainless steel, self-starting, pan-head screws	2
		Rail bracket to rail	No. 10 x 1 ½” stainless steel, self-starting, pan-head screws	2
Classic	Stair	Top rail bracket to post	No. 10 x 1 ½” stainless steel, self-starting, pan-head screws	2
		Bottom rail bracket to post	No. 10 x 1 ½” stainless steel, self-starting, pan-head screws	4
		Top rail bracket to rail	No. 10 x 1 ½” stainless steel, self-starting, flat-head screws	2
		Desired angle adjustment	No. 10 x 1 ½” stainless steel, self-starting, pan-head screws	2
Standard Vertical and T-Rail	Level	Rail bracket to post	No. 10 x 1 ½” stainless steel, self-starting, pan-head screws	4
		Rail bracket to rail	No. 10 x 1 ½” stainless steel, self-starting, pan-head screws	2
	Stair	Rail bracket to post	No. 10 x 1 ½” stainless steel, self-starting, pan-head screws	4
		Top rail bracket to rail	No. 10 x 1” stainless steel, self-starting, flat-head screws	2
		Bottom rail bracket to rail	None	NA

Table 1 – Fastening Schedule (cont.)

Clubhouse Plus Guardrail Component		Connection	Fastener	Quantity
Commercial	Level	Rail bracket to post	No. 12 x 1" stainless steel, self-starting, flat-head screws	4
		Rail bracket to rail	No. 12 x 1" stainless steel, self-starting, flat head screws	4
	Stair	Top rail bracket to post	No. 10 x 1 ½" stainless steel, self-starting, pan-head screws	4
		Bottom rail bracket to post	No. 10 x 1" stainless steel, self-starting, pan-head screws	4
		Top rail bracket to rail	No. 10 x 1" stainless steel, self-starting, flat-head screws	2
		Desired angle adjustment	No. 10 x 1" stainless steel, self-starting, pan-head screws	2

Note: The railing system shall be installed in accordance with the manufacturer's installation instructions and this product evaluation report. The manufacturer's installation instructions shall be on the job site during the installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC), the International Building Code (IBC), and the Texas Revisions.