



August 1, 2014

To Whom It May Concern:

The documents contained herein are designed to provide adequate information for customers seeking building-code documentation for RoyOMartin's WindBrace® oriented strand board (OSB) product. Please find attached RoyOMartin WindBrace® OSB product literature, along with an informational flyer from APA – The Engineered Wood Association entitled "Wood Structural Panel Sizes."

All 7/16" thickness RoyOMartin WindBrace® panels are engineered to meet or exceed United States Department of Commerce PS-1 and PS-2 product standards, including ICC ESR-2586 for use in load-bearing wall-sheathing in high wind-load zones. In lengths of 97-1/8", 109-1/8", 121-1/8" and 145-1/8", these OSB panels are specifically designed for builders to attach the bottom plate to the top of the top plate to meet the more stringent wind-board criteria. All panels are stamped with a unique APA stamp with mill number 511 for our Oakdale, Louisiana, manufacturing plant.

The information about products and application instructions printed herein is current at the time of publication; however, in accordance with RoyOMartin's policy of constant product improvement, the right is reserved to vary these product specifications and application instructions without notice. Ask for the most current product information when placing product orders. For additional information, please contact your RoyOMartin sales representative at 800-299-5174.

Thank you,

The RoyOMartin Customer Service Team



Wood Structural Panel Sizes

With the advancement of wood structural panel (WSP) manufacturing techniques, several APA members are producing and marketing extended length panels for wall sheathing markets. The advantage of extended length sheathing is that wall sheathing can be nailed off on both the bottom and top plates of the walls. It has been brought to our attention that some building officials are strictly interpreting the panel size listings in International Code Council Evaluation Service (ICC-ES) ESR-2586. This white paper is intended to explain APA's position on the panel sizes.

Wood structural panel length and width are typically not a structural concern when panel size and application meet the following minimum criteria:

- a. For floor and roof sheathing, the panel length should result in a minimum three-span application for panels thinner than 23/32 inch and two-span for panels of 23/32 inch or greater in thickness. Reductions in allowable loads may apply for fewer spans.
- b. For all panel applications, minimum cut down size is 24-inch width. Additional edge support or reductions in allowable loads may be required for less than 24-inch width.

Other than the conditions mentioned above, panel size does not affect the structural performance of the WSP. Note that other than thickness (or performance category) listings in load and span tables, model building codes do not establish WSP sizes. Nor do WSP product standards PS 1, *Structural Plywood*, and PS 2, *Performance Standard for Wood-Based Structural-Use Panels*, which are recognized in the model building codes.

ESR-2586 provides recognition for APA PRP-108, *Performance Standards and Qualification Policy for Structural-Use Panels*. Like PS 1 and PS 2, PRP-108 sets allowable tolerances on specified length and width. There are no limits to panel sizes within these standards.

Although Section 3.1.3.1 of ESR-2586 indicates that panels are produced in nominal sizes of 4 feet by 8 (96"), 9 (108") or 10 (120") feet, it should not be presumed that these are the only panel sizes available for structural applications. In fact, many APA member companies produce panels to other length and width specifications. For example, some panels intended for wall sheathing applications are available in various lengths, including 97-1/8, 109-1/8, 121-1/8, and 145-1/8 inches.

For recommendations on panel applications, design value adjustment criteria, and edge support requirements, refer to the following APA publications: (www.apawood.org)

- APA Engineered Wood Construction Guide, Form E30
- Panel Design Specification, Form D510
- Load-Span Tables for APA Structural-Use Panels, Form Q225
- Panel Edge Support For Narrow-Width Roof Sheathing, Form R275

Technical Services Division
November 2010

DISCLAIMER

The information contained herein is based on APA – The Engineered Wood Association's continuing programs of laboratory testing, product research, and comprehensive field experience. Neither APA nor its members make any warranty, expressed or implied, or assume any legal liability or responsibility for the use, application of, and/or reference to opinions, findings, conclusions, or recommendations included in this publication. Consult your local jurisdiction or design professional to assure compliance with code, construction, and performance requirements. Because APA has no control over quality of workmanship or the conditions under which engineered wood products are used, it cannot accept responsibility of product performance or designs as actually constructed.

REPRESENTING THE ENGINEERED WOOD INDUSTRY

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BE READY FOR THE STORM WITH

WINDBRACE®

WALL SHEATHING PANELS



KEY FEATURES

Offers a cost-effective OSB sidewall solution for meeting code in hurricane- and wind-prone areas

Oversize panels eliminate horizontal joints for superior wall strength

Eliminates excess waste materials and the need for blocking and filler strips, while reducing overall project costs

Saves valuable labor time and costs

Easy to install

SMARTPRODUCT FEATURES

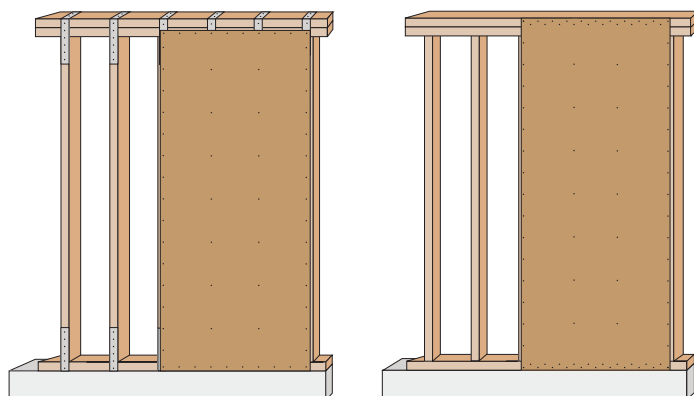
1 1/8 inch longer than traditional OSB panels

Available FSC®-certified and ideal for LEED projects

97 1/8 in. & 109 1/8 in. sizes available with pre-applied Eclipse™ Reflective Housewrap



The power of wind cannot be denied. RoyOMartin's WindBrace® OSB sheathing stands at the forefront, providing a cost-effective and code-compliant sidewall solution in hurricane- and wind-prone areas. **In addition to offering improved wall strength, these easy-to-install oversize panels reduce labor and material costs.** WindBrace® is available in lengths of 97 1/8 in., 109 1/8 in., 121 1/8 in., and 145 1/8 in. Through systematic quality testing and market demand, WindBrace® is recognized as a durable and reliable building component. All RoyOMartin panel products are APA rated and available Forest Stewardship Council® (FSC®) certified, ideal for LEED projects.



Traditional Panels v. RoyOMartin's WindBrace® OSB



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Application

WindBrace® oversize OSB panels are a full 1 1/8 in. taller than traditional OSB panels, enabling builders to tie the top plate to the bottom plate with a single sill-to-plate structural panel. Engineered for greater strength and less deflection, WindBrace® reduces labor and material costs by eliminating the need to install metal connectors, threaded bolts, and blocking and filler strips.

Certification

WindBrace® OSB sheathing panels are certified by APA-The Engineered Wood Association and are manufactured in conformance with APA PRP-108 and U.S. Voluntary Product Standard PS2. WindBrace® also holds a PR-N129 certification. The panels conform to the ICC Evaluation Service Legacy Report NER-108 for APA and are approved under the APA Rated Sheathing Standard. WindBrace® panels are engineered to meet or exceed United States Department of commerce PS-1 and PS-2 product standards including ICC ESR-2586 for use in loadbearing wall sheathing high wind load zones. WindBrace® panels are specifically designed to attach the bottom plate to the top of the top plate, to meet the more stringent wind board criteria. All panels are stamped with a unique APA stamp with mill number 511.

Storage & Handling

Like any wood product, WindBrace® OSB sheathing panels should be stored to avoid excessive moisture pick-up. Store in a warehouse under cover of a roof or on concrete floors 3 inches off the ground. When stored outdoors, cover panels loosely with a protective material. Clear covering is not recommended. If plastic tarps are used, anchor them on top of the unit, but keep them away from the sides and bottom to ensure good air circulation and ventilation around the panels. Cut the banding on the unit to prevent edge damage. Allow 24 hours for panels to acclimate to the surrounding external weather conditions prior to installation.

WindBrace® OSB sheathing panels are intended for protected construction applications. If subjected to rain or standing water during normal construction, the panel edges may swell and mild surface roughening may occur. If these conditions are encountered, touch-sand panels where necessary after drying is complete.

Installation

Helpful tips:

Panel acclimation: Panels require 24 hours to acclimate to surrounding environmental conditions prior to installation.

Panel edge spacing: 1/8" minimum spacing is required along all edges, although extended-length panels require up to 1/4".

Nailing pattern: 6-inches on center on panel edges and 12-inches on center in the intermediate portion of the panel.

Local building codes and/or engineer specification may require a tighter nailing pattern than previously stated. If so, to minimize panel buckling, nail according to RoyOMartin's nailing pattern first, allow 72 hours to acclimate, then nail to the tighter nailing pattern.

Additional installation instructions available at royomartin.com.

Important Notice

This product is designed to meet international building codes; however, local building codes may supersede. These instructions are not intended to cover every installation requirement, application, detail, or variation, nor do they provide every possible installation contingency. If any questions or problems arise concerning the installation of this product or its suitability for the purchaser's particular use, inquiries should be made to RoyOMartin. The information about products and application instructions printed herein is current at the time of publication; however, in accordance with RoyOMartin's policy of constant product improvement, the right is reserved to vary these application instructions and product specifications without notice. When placing your order, ask for the most recent product information. Printed August 2014.

Available Sizes

Lengths*:

97 1/8 in., 109 1/8 in., 121 1/8 in., 145 1/8 in.

Thicknesses^:

7/16 in.

Available with Eclipse™ Reflective Housewrap applied

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