



NEMO|etc.

Certificate of Authorization #32455
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ENGINEER

EVALUATE

TEST

CONSULT

P.E. EVALUATION REPORT (PEER)

Norandex

A Division of American Builders & Contractors Supply Co., Inc.
1 ABC Parkway
Beloit, WI 53511
(517) 780-3185

PEER-CTS-002.A.R5

FL12500-R5 (NON-HVHZ)

Date of Issuance: 04/28/2009

Revision 5: 11/27/2023

SCOPE:

This P.E. Evaluation Report (henceforth 'PEER') is issued under **F.A.C. Rule 61G20-3** and the applicable rules and regulations governing the use of construction materials in the State of Florida. The documentation submitted has been reviewed by Robert Nieminen, P.E. for use of the product under the Florida Building Code. The product described herein has been evaluated for compliance with the **8th Edition (2023) Florida Building Code sections referenced herein.**

DESCRIPTION: Norandex Vinyl Siding Systems (NON-HVHZ)

LABELING: Labeling shall be in accordance with the requirements of the Accredited Quality Assurance Agency noted herein and the minimum provisions of **FBC 1404.9** and **R703.11**.

CONTINUED COMPLIANCE: This PEER is valid until such time as the named product(s) changes, the referenced Quality Assurance or production facility location(s) changes, or Code provisions that relate to the product(s) change. Acceptance of our PEER s by the named client constitutes agreement to notify NEMO ETC, LLC of any changes to the product(s), the Quality Assurance, or the production facility location(s). NEMO ETC, LLC requires a complete review of its PEER relative to updated Code requirements with each Code Cycle.

ADVERTISEMENT: The Florida Product Approval Number (FL#) preceded by the words "NEMO P.E. Evaluated" may be displayed in advertising literature. If any portion of the PEER is displayed, then it shall be done in its entirety.

INSPECTION: Upon request, a copy of this entire PEER shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This PEER consists of pages 1 through 4, plus a 4-page Appendix.

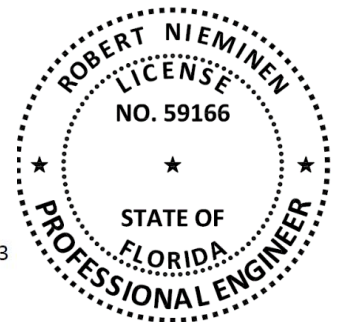
Prepared by:

Digitally signed by
Robert Nieminen
Date: 2023.11.27
'13:37:17 -05'00

This item has been digitally signed and sealed by Robert Nieminen, P.E.

Printed copies of this document are not considered signed and sealed, and the signature must be verified on any electronic copies.

Robert Nieminen, Florida P.E. 59166, FBC ANE1983
NEMO ETC, LLC, Florida CA #32455



CERTIFICATION OF INDEPENDENCE:

1. NEMO ETC, LLC does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates.
2. NEMO ETC, LLC is not owned, operated, or controlled by any company manufacturing or distributing products it evaluates.
3. Robert Nieminen, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the PEERs are being issued.
4. Robert Nieminen, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.
5. This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this PEER, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.

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PANEL WALLS - SIDING EVALUATION:
1. SCOPE:

Product Category: Panel Walls

Sub-Category: Siding

Product Approval Method: Method 1, Option D: Codified Material, Evaluation by Engineer

Compliance Statement: **Norandex Vinyl Siding Systems**, as produced by **Norandex**, have demonstrated compliance with the following sections of the **8th Edition (2023) Florida Building Code** through testing in accordance with the following Standards. Compliance is subject to the [Installation Requirements](#) and [Limitations of Use](#) set forth herein.

2. STANDARDS:

SECTION	PROPERTY	STANDARD
1404.9, 1405.14, R703.11	Material standard / wind	ASTM D3679

3. REFERENCES:

ENTITY	EXAMINATION	REFERENCE	DATE
ATI (TST1558)	ASTM D5206	A5217.01-109-40	12/16/2010
ATI (TST1558)	ASTM D5206	A5222.01-109-40	12/16/2010
ATI (TST1558)	ASTM D5206	A5223.01-109-40	12/16/2010
ATI (TST1558)	ASTM D5206	A5220.01-109-40	03/30/2011
ATI (TST1558)	ASTM D5206	A5224.01-109-40	03/30/2011
ATI (TST1558)	ASTM D5206	A5225.01-109-40	03/30/2011
ATI (TST1558)	ASTM D5206	D2340.01-109-40	11/12/2013
ATI (TST1558)	ASTM D5206	C8674 01-106-40-R1	12/03/2013
ATI (TST1558)	ASTM D5206	D6391.01-109-40	04/22/2014
ATI (TST1558)	ASTM D5206	D6401.01-109-40	04/22/2014
ATI (TST1558)	ASTM D5206	D6403.01-109-40	04/22/2014
ATI (TST1558)	ASTM D5206	D6404.01-109-40	04/22/2014
ATI (TST1558)	ASTM D5206	D6407.01-109-40	04/22/2014
ATI (TST1558)	ASTM D5206	D6405.01-109-40	04/23/2014
ATI (TST1558)	ASTM D5206	D6406.01-109-40	05/01/2014
ATI (TST1558)	ASTM D3679 / D5206	E9068.01-106-31	08/03/2015
ATI (TST1558)	ASTM D3679	VSI Certification	Current
Intertek (TST1558)	ASTM D5206	I7309.01-109-40	10/04/2018
Intertek (TST1558)	ASTM D5206	I7316.01-109-40	10/04/2018
Intertek (TST1558)	ASTM D5206	I7322.01-109-40	10/04/2018
Intertek (TST1558)	ASTM D5206	I7325.01-109-40	10/04/2018
Intertek (QUA1673)	Quality Control	QA Participation Letter	08/15/2023
Intertek (QUA1673)	Quality Control	Florida BCIS	Current

4. PRODUCT DESCRIPTION:

This PEER covers **Norandex Vinyl Siding Systems** in a variety of profiles and surface textures / colors. This evaluation is limited to the specific product trade names referenced in this report subject to the [Installation Requirements](#) and [Limitations of Use](#) herein.

TABLE 1: EVALUATED SIDING PRODUCTS			
BRAND	PRODUCT	PROFILES	THICKNESS (INCH)
Norandex	Board & Batten Single 7 Vertical Siding	S7	0.052
	Cambridge Beaded®	6.5 Beaded	0.044
	Cedar Knolls™	D4, D5, D5DL	0.044
	Great Barrier® & Great Barrier® XL	D4, D5DL	0.046
	Polar Wall® Plus!	D4, D5DL, D6	0.046
	Premium Vertical Soffit/Siding	D5	0.048
	Sagebrush®	D5DL	0.050
	Shenendoah®	6.5 Semi-Beaded	0.042
		T3	0.040
	Sterling® Deluxe	S8	0.048
	Summit Manor®	D4, D4.5, D4.5DL	0.040
	Woodsman Select	D4, D4DL, D5, D5DL	0.042

5. LIMITATIONS:

- 5.1 This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this PEER, or previous versions thereof, is/was used for permitting or design guidance. PEERs are not to be construed as representing any attributes not specifically listed, nor are PEERs to be construed as an endorsement of the subject, or a recommendation for its use. There is no warranty by NEMO ETC, LLC or Robert Nieminen, P.E., express or implied, as to any finding or other matter in this PEER, or as to any product covered by the PEER.
- 5.2 This PEER is not for use in FBC High Velocity Hurricane Zone jurisdictions, as defined in FBC Chapter 2 (Broward and Miami-Dade Counties).
- 5.3 This PEER pertains to non-structural wall cladding. The cladding panels are not intended for racking or shear resistance.
- 5.4 Limited to installation over solidly sheathed walls. Wall-framing and sheathing shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction.
- 5.5 This PEER does not address fire-resistance-rating performance of the completed wall assemblies.
- 5.6 For existing substrates, the Authority Having Jurisdiction may require fasteners be tested in the existing substrate for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system.
- 5.7 Wind Resistance:
 - 5.7.1 Refer to **FBC 1405.14** for prescriptively permitted installations based on the wind speed (V_{asd}), wall-height and Exposure for the project and its location. For installations and/or locations exceeding the prescriptive installations, limitations relating to design wind pressure resistance are outlined in Appendix 1.
 - 5.7.2 “MDP” = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads. Refer to **FBC 1609** for determination of project-specific design wind pressures. The MDP for the selected installation shall meet or exceed the design wind pressure requirement for the project for each pressure zone.
 - 5.7.3 Tables are based on wall cladding design wind pressure requirements in accordance with **ASCE 7-22**, multiplied by 0.6 (P_{asd}) for **allowable loads**.

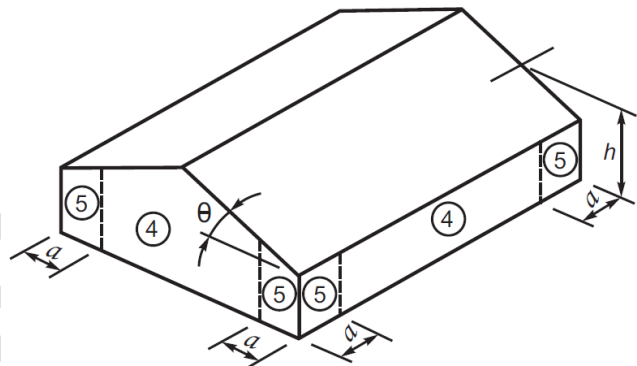
- 5.7.4 Use of Appendix 1 is limited to the following design parameters. Analysis for buildings falling outside these constraints shall be on a project-by-project basis by a Florida Registered P.E.

TABLE 2: PARAMETERS FOR APPENDIX 1 USAGE			
PARAMETER	REFERENCE	SYMBOL	VALUE
Mean roof height (ft)*	N/A	h	≤ 30 ft
Design wind speed (mph)*	FBC 1609.3	V_{ult}	Various
Exposure Category*	FBC 1609.4.3	N/A	B, C or D
Topographical factor	ASCE 7	K_{zt}	1.0
Wind directionality factor	ASCE 7	K_d	0.85
Ground elevation factor	ASCE 7	K_e	1.0

*Selection of the appropriate height, design wind speed and exposure category is the responsibility of the user, subject to acceptance by the Authority Having Jurisdiction.

- 5.7.5 Reference to “OK” indicates the system performance exceeds project requirements for that particular zone. Reference to “NO” indicates additional testing is required.

- 5.7.6 The dimension of Zones 4 and 5 (interior and end zones) shall be defined as 10% of the least horizontal plan-view dimension or 40% of the mean roof height, whichever is smaller, but not less than either 4% of the least horizontal plan-view dimension or 3 feet, as outlined in **ASCE 7-22**.



- 5.8 All components in the wall assembly shall have quality assurance surveillance in accordance with **F.A.C. Rule 61G20-3**. For components listed herein that are produced by a manufacturer other than the report holder on [Page 1](#) of this PEER, refer to the Product Approval of the component manufacturer.

6. INSTALLATION:

- 6.1 **Norandex Vinyl Siding Systems** shall be installed in accordance with [ASTM D4756](#), Norandex published Installation Guide and recommendations of the [Vinyl Siding Institute](#), subject to the [Limitations of Use](#) herein.
- 6.1.1 Unless otherwise noted, fasteners for vinyl siding are limited to min. 1½” long (min. ¾-inch penetration) x 0.125” shank diameter x minimum 3/8” head diameter galvanized roofing nails. Unless otherwise noted nails shall engage the stud framing members.
- 6.2 Refer to FBC 1403.2 or R703.2 for requirements concerning a water-resistive barrier.

7. BUILDING PERMIT REQUIREMENTS:

As required by the Building Official or Authority Having Jurisdiction in order to properly evaluate the installation of this product.

8. MANUFACTURING PLANTS:

Claremont, NC

9. QUALITY ASSURANCE ENTITY:

Intertek (QUA1673); (312) 906-7779; www.archtest.com/vsi

- THE 4-PAGES THAT FOLLOW FORM PART OF THIS PEER -



8TH EDITION (2023) FLORIDA WIND ZONE COMPLIANCE WORKSHEET, Height (h) ≤ 30 ft

NORANDEX VINYL SIDING					Ultimate Design Wind Speed - Vult (mph) – FBC Figures 1609.3(1) through 1609.3(4)										Exposure	Zone
Product	Profile	Max. Nail Spacing	Nail Engage	Design Pressure (psf)	110	120	130	140	150	160	170	180	190	200		
Board & Batten Single 7 Vertical Siding	S7	12" o.c.	OSB, plywood and/or studs	80	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	B	Interior Zone 4
					OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	C	
					OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	D	
					OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	B	End Zone 5
					OK	OK	OK	OK	OK	OK	OK	OK	OK	NO	C	
Cambridge Beaded	6.5 Beaded	16" o.c.	Studs	42	OK	OK	OK	OK	OK	OK	OK	OK	NO	NO	D	Interior Zone 4
					OK	OK	OK	OK	OK	NO	NO	NO	NO	NO	C	
					OK	OK	OK	OK	NO	NO	NO	NO	NO	NO	D	
					OK	OK	OK	OK	OK	OK	OK	NO	NO	NO	B	End Zone 5
					OK	OK	OK	OK	NO	NO	NO	NO	NO	NO	C	
Cedar Knolls	D4	16" o.c.	Studs	53	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	B	Interior Zone 4
					OK	OK	OK	OK	OK	OK	OK	OK	NO	NO	C	
					OK	OK	OK	OK	OK	OK	NO	NO	NO	NO	D	
					OK	OK	OK	OK	OK	OK	OK	OK	OK	NO	B	End Zone 5
					OK	OK	OK	OK	OK	OK	NO	NO	NO	NO	C	
	D5	16" o.c.	Studs	55	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	B	Interior Zone 4
					OK	OK	OK	OK	OK	OK	OK	OK	NO	NO	C	
					OK	OK	OK	OK	OK	OK	NO	NO	NO	NO	D	
					OK	OK	OK	OK	OK	OK	OK	OK	OK	NO	B	End Zone 5
					OK	OK	OK	OK	OK	OK	NO	NO	NO	NO	C	
	D5DL	16" o.c.	Studs	51	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	B	Interior Zone 4
					OK	OK	OK	OK	OK	OK	OK	NO	NO	NO	C	
					OK	OK	OK	OK	OK	OK	NO	NO	NO	NO	D	
					OK	OK	OK	OK	OK	OK	OK	OK	NO	NO	B	End Zone 5
					OK	OK	OK	OK	OK	NO	NO	NO	NO	NO	C	



8TH EDITION (2023) FLORIDA WIND ZONE COMPLIANCE WORKSHEET, Height (h) ≤ 30 ft

NORANDEX VINYL SIDING					Ultimate Design Wind Speed - Vult (mph) – FBC Figures 1609.3(1) through 1609.3(4)										Exposure	Zone
Product	Profile	Max. Nail Spacing	Nail Engage	Design Pressure (psf)	110	120	130	140	150	160	170	180	190	200		
Polar Wall Plus!	D4	16" o.c.	Studs	109	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	B	Interior Zone 4
					OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	C	
					OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	D	
					OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	B	End Zone 5
					OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	C	
					OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	D	
	D5DL	16" o.c.	Studs	76	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	B	Interior Zone 4
					OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	C	
					OK	OK	OK	OK	OK	OK	OK	OK	OK	NO	D	
					OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	B	End Zone 5
					OK	OK	OK	OK	OK	OK	OK	OK	OK	NO	C	
					OK	OK	OK	OK	OK	OK	OK	NO	NO	NO	D	
	D6	16" o.c.	Studs	69	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	B	Interior Zone 4
					OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	C	
					OK	OK	OK	OK	OK	OK	OK	OK	NO	NO	D	
					OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	B	End Zone 5
					OK	OK	OK	OK	OK	OK	OK	OK	NO	NO	C	
					OK	OK	OK	OK	OK	OK	NO	NO	NO	NO	D	
Premium Vertical Siding	D5	16" o.c.	plywood and/or studs	33	OK	OK	OK	OK	OK	OK	NO	NO	NO	NO	B	Interior Zone 4
					OK	OK	OK	OK	NO	NO	NO	NO	NO	NO	C	
					OK	OK	OK	NO	NO	NO	NO	NO	NO	NO	D	
					OK	OK	OK	OK	OK	NO	NO	NO	NO	NO	B	End Zone 5
					OK	OK	NO	NO	NO	NO	NO	NO	NO	NO	C	
					OK	NO	NO	NO	NO	NO	NO	NO	NO	NO	D	
Great Barrier or Great Barrier XL	D4	16" o.c.	Studs	107	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	B	Interior Zone 4
					OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	C	
					OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	D	
					OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	B	End Zone 5
					OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	C	
					OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	D	
	D5, D5DL	16" o.c.	Studs	77	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	B	Interior Zone 4
					OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	C	
					OK	OK	OK	OK	OK	OK	OK	OK	OK	NO	D	
					OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	B	End Zone 5
					OK	OK	OK	OK	OK	OK	OK	OK	OK	NO	C	
					OK	OK	OK	OK	OK	OK	OK	NO	NO	NO	D	



8TH EDITION (2023) FLORIDA WIND ZONE COMPLIANCE WORKSHEET, Height (h) ≤ 30 ft

NORANDEX VINYL SIDING					Ultimate Design Wind Speed - Vult (mph) – FBC Figures 1609.3(1) through 1609.3(4)										Exposure	Zone
Product	Profile	Max. Nail Spacing	Nail Engage	Design Pressure (psf)	110	120	130	140	150	160	170	180	190	200		
Sagebrush	D4	16" o.c.	Studs	89	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	B	Interior Zone 4
					OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	C	
					OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	D	
					OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	B	End Zone 5
					OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	C	
	D5DL	16" o.c.	Studs	51	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	D	Interior Zone 4
					OK	OK	OK	OK	OK	OK	OK	NO	NO	NO	B	
					OK	OK	OK	OK	OK	OK	NO	NO	NO	NO	C	
					OK	OK	OK	OK	OK	OK	OK	NO	NO	NO	D	End Zone 5
					OK	OK	OK	OK	NO	NO	NO	NO	NO	NO	C	
Shenandoah	6.5 Semi-Beaded	16" o.c.	Studs	68	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	B	Interior Zone 4
					OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	C	
					OK	OK	OK	OK	OK	OK	OK	OK	NO	NO	D	
					OK	OK	OK	OK	OK	OK	OK	OK	NO	NO	B	End Zone 5
					OK	OK	OK	OK	OK	OK	NO	NO	NO	NO	C	
	T3	16" o.c.	Studs	40	OK	OK	OK	OK	OK	OK	OK	OK	NO	NO	D	Interior Zone 4
					OK	OK	OK	OK	OK	NO	NO	NO	NO	NO	B	
					OK	OK	OK	OK	NO	NO	NO	NO	NO	NO	C	
					OK	OK	OK	OK	NO	NO	NO	NO	NO	NO	D	End Zone 5
					OK	OK	NO	NO	NO	NO	NO	NO	NO	NO	C	
Sterling Deluxe	S8	16" o.c.	Studs	44	OK	OK	OK	OK	OK	OK	OK	OK	OK	NO	B	Interior Zone 4
					OK	OK	OK	OK	OK	OK	NO	NO	NO	NO	C	
					OK	OK	OK	OK	OK	NO	NO	NO	NO	NO	D	
					OK	OK	OK	OK	OK	OK	OK	NO	NO	NO	B	End Zone 5
					OK	OK	OK	OK	NO	NO	NO	NO	NO	NO	C	
Summit Manor	D4.5, D4.5DL	16" o.c.	Studs	38	OK	OK	OK	OK	OK	OK	OK	NO	NO	NO	D	Interior Zone 4
					OK	OK	OK	OK	OK	NO	NO	NO	NO	NO	B	
					OK	OK	OK	NO	NO	NO	NO	NO	NO	NO	C	
					OK	OK	OK	OK	OK	OK	NO	NO	NO	NO	D	End Zone 5
					OK	OK	NO	NO	NO	NO	NO	NO	NO	NO	C	
	D4	16" o.c.	Studs	36	OK	OK	OK	OK	OK	OK	OK	NO	NO	NO	D	Interior Zone 4
					OK	OK	OK	OK	NO	NO	NO	NO	NO	NO	B	
					OK	OK	OK	OK	NO	NO	NO	NO	NO	NO	C	
					OK	OK	OK	OK	NO	NO	NO	NO	NO	NO	D	End Zone 5
					OK	OK	NO	NO	NO	NO	NO	NO	NO	NO	C	



8TH EDITION (2023) FLORIDA WIND ZONE COMPLIANCE WORKSHEET, Height (h) ≤ 30 ft

NORANDEX VINYL SIDING					Ultimate Design Wind Speed - Vult (mph) – FBC Figures 1609.3(1) through 1609.3(4)										Exposure	Zone
Product	Profile	Max. Nail Spacing	Nail Engage	Design Pressure (psf)	110	120	130	140	150	160	170	180	190	200		
Woodsman Select	D4	16" o.c.	Studs	49	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	B	Interior Zone 4
					OK	OK	OK	OK	OK	OK	OK	NO	NO	NO	C	
					OK	OK	OK	OK	OK	NO	NO	NO	NO	NO	D	
					OK	OK	OK	OK	OK	OK	OK	OK	NO	NO	B	End Zone 5
					OK	OK	OK	OK	OK	NO	NO	NO	NO	NO	C	
					OK	OK	OK	OK	NO	NO	NO	NO	NO	NO	D	
	D4DL	16" o.c.	Studs	71	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	B	Interior Zone 4
					OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	C	
					OK	OK	OK	OK	OK	OK	OK	OK	OK	NO	D	
					OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	B	End Zone 5
					OK	OK	OK	OK	OK	OK	OK	OK	NO	NO	C	
					OK	OK	OK	OK	OK	OK	OK	NO	NO	NO	D	
	D5	16" o.c.	Studs	31	OK	OK	OK	OK	OK	OK	NO	NO	NO	NO	B	Interior Zone 4
					OK	OK	OK	NO	NO	NO	NO	NO	NO	NO	C	
					OK	OK	NO	NO	NO	NO	NO	NO	NO	NO	D	
					OK	OK	OK	OK	NO	NO	NO	NO	NO	NO	B	End Zone 5
					OK	OK	NO	NO	NO	NO	NO	NO	NO	NO	C	
					OK	NO	NO	NO	NO	NO	NO	NO	NO	NO	D	
	D5DL	16" o.c.	Studs	51	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	B	Interior Zone 4
					OK	OK	OK	OK	OK	OK	OK	NO	NO	NO	C	
					OK	OK	OK	OK	OK	OK	NO	NO	NO	NO	D	
					OK	OK	OK	OK	OK	OK	OK	OK	NO	NO	B	End Zone 5
					OK	OK	OK	OK	OK	NO	NO	NO	NO	NO	C	
					OK	OK	OK	OK	NO	NO	NO	NO	NO	NO	D	