OSB Information Sheet
Residential Floor, Wall & Roof Applications

General

West Fraser OSB panels are grade agency certified panels manufactured to Department of Commerce Voluntary Product Standard PS 2, which is recognized by 1) the International Building Code (IBC), 2) the International Residential Code (IRC), 3) the International Code Council Evaluation Service (ICC-ES) Evaluation Report ESR-2586, and 4) the HUD Use of Materials Bulletin No. 40c. The panel trademark also indicates the panel grade, span rating, bond classification, and mill number. West Fraser markings include the production date and time and may also include the product brand.

Sheathing Grades

West Fraser sheathing is designed for subfloor, wall, and roof applications. Subfloor sheathing is designed specifically for use in single-layer floor construction beneath carpet and pad and other approved floor coverings. PointSIX® is a patented tapered edge exclusive to West Fraser's TruFlor® and Durastrand® subfloor sheathing.

Storage and Handling

West Fraser OSB panels should be properly stored, handled, kept dry, protected from ground contact, and protected during construction to ensure expected in-service performance.

Protect panel ends and edges during transportation and storage. Cover panels during transport to protect them from moisture exposure. If panels cannot be stored under a roof, cover the stack loosely to protect it from rain and snowfall while maintaining airflow to help prevent mold growth.

Bond Classification

West Fraser OSB panels are manufactured in accordance with PS 2 with an Exposure 1 bond classification suitable for uses not permanently exposed to the weather. Panels are intended to resist the effects of moisture on structural performance during active construction. Exposure to moisture can cause cosmetic changes like edge swell, surface flaking, mold, mildew and discoloration.

Installation

General

West Fraser OSB panels can be used for floor, wall, and roof construction, each having specific requirements. All panels must be spaced 1/8” minimum along panel ends and edges. Panels marked Sized for Spacing are manufactured undersized to allow for an 1/8” minimum gap between panels. When panels become acclimated, gaps that were initially present may have closed due to normal moisture-related panel expansion. For large buildings with continuous sections of panels exceeding 80 feet in length, a 3/4" expansion joint is required. Avoid heavy construction loading when the panels have been exposed to substantial wetting and have not yet fully dried.

Floor

West Fraser produces Rated Sheathing and Rated Sturd-I-Floor (APA) certified by APA – The Engineered Wood Association and Sheathing Span and Floor Span (TECO) certified by PFSTECO.

The T&G edges of West Fraser's TruFlor, Durastrand, Stabledge®, and Pinnacle® panels are self-spacing. Subfloor panels with the pointSIX tapered edge should be installed with the tapered side up. All subflooring should be installed with the grade stamped side facing down. Floor panels are to be installed with the long dimension perpendicular to supports, continuous over two or more spans, and must have a minimum panel width of 24".

Subfloor with T&G edges is designed specifically for use in single-layer floor construction beneath carpet and pad. PointSIX is a patented tapered edge exclusive to West Fraser TruFlor and Durastrand subfloor.

For West Fraser's Trubord™ sheathing used for subfloor applications, the long panel edges should be 1) supported with blocking, 2) covered with a

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separate layer of underlayment having edges offset a minimum 2" from the subfloor edges below, 3) covered with 1-1/ 2" of lightweight concrete, or 4) covered with 3/4" thick wood strip flooring installed perpendicular to the unsupported edge.

Wall

Panel orientation (horizontal or vertical) does not affect wall assembly shear capacity since shear capacity is based on panel thickness. Panels branded as TallWall® and Windstorm® are intended to be installed vertically. Panels with a Wall 24 span rating are not permitted to be used for a roof application.

Roof

Roof sheathing panels should be installed with the long dimension perpendicular to supports and continuous over two or more spans. Narrow-width roof panels less than 24" wide require additional edge support at unsupported edges, such as panel clips or lumber blocking, consistent with IRC Section R803 or IBC Section 2304.8. Cover roof sheathing without delay with a code-approved roofing underlayment. If any edge swelling occurs prior to roof underlayment installation, all uneven edges should be sanded flat.

Fasteners

The Maximum distance between fasteners is 6" on center (o.c.) at panel ends and edges and 12" o.c. at intermediate supports. Edge fasteners must be installed 3/8" from panel ends, edges, and corners. Wind and seismic design may require fasteners to be installed closer than the minimum fastener spacing. For information regarding the use of fasteners, see the IBC, IRC, and National Design Specification (NDS).

Moisture Control/Ventilation

Panels are intended for dry-use moisture conditions where in-service moisture content will be less than 16% over the service life of the panel. The use of water, moisture, and vapor control systems must be integrated into the building design to maintain a dry service environment. Proper attic and crawl space ventilation shall be provided according to the latest version of the IBC, IRC, and the International Energy Conservation Code.

Sustainability

We hold third-party verified Sustainable Forest Management and Fiber Sourcing certification. Please visit www.westfraser.com for information on third-party certification.

Table 1 – West Fraser OSB Product Line and Span Ratings for Wall Applications[a][b]

Span Rating	Performance Category	24" Maximum Wall Sheathing Span[c]	
		Trubord™ & Windstorm™	TallWall™
24/0[d]	3/8	✓[d]	✓[d]
Wall 24[e]	7/16		✓
24/16	7/16	✓	
32/16[d]	15/32	✓[d]	✓[d]
32/16	1/2	✓	
40/20[d]	19/32	✓[d]	

a) All sheathing conforms to PS 2 (US), ESR-2586 (US), and CSA-0325.0.16 (Canada).
b) All sheathing has an Exposure 1 Bond Classification.
c) Maximum stud spacing for wind applications. Check local building codes for wind loads.
d) Available in Structural I.
e) Not permitted for roof or floor use.

Table 2 – Allowable Floor and Roof Spans for West Fraser OSB Rated Sheathing Panels

Span Rating	Performance Category	Maximum Floor Span (inches) o.c.[a]	Maximum Roof Span (inches) o.c.	
			With Edge Support[b]	Without Edge Support
24/0	3/8	0	24	19.2[c]
Wall 24[d]	7/16	0	Not for roof use	Not for roof use
24/16		16	24	24
32/16	15/32, 1/2	16	32	28
40/20	19/32	20	40	32
48/24	23/32	24	48	36

a) Edge support provided by T&G edges, lumber blocking, or a layer of underlayment having edges offset a minimum 2" from the subfloor edges below.
b) Edge support provided by T&G edges, lumber blocking, or panel clips (one clip at midspan for spans less than 48" on center and two panel clips equally spaced for spans 48" on center).
c) Maximum span without edge support is 16" for Canadian applications.
d) Performance Category 7/16 with a span rating of Wall 24 is intended for wall sheathing only. Not permitted for roof or floor use.

Table 3 – Allowable Floor and Roof Spans for West Fraser OSB Sturd-I-Floor or Floor Span Panels

Subfloor Span Rating[a][b]	Performance Category	Maximum Floor Span (inches) o.c.	Maximum Roof Span (inches) o.c.	
			With Edge Support[c]	Without Edge Support
20oc	19/32	19.2	32	32
24oc	23/32	24	48	36
32oc	7/8	32	48	40
48oc	1-1/8	48	60	48

a) Follow finish floor covering manufacturer's installation instructions.
b) CAUTION - Subfloor sheathing used for a roof application has a reduced load capacity than sheathing of the same thickness.
c) Edge support provided by T&G edges, lumber blocking, or a second layer of underlayment having edges offset a minimum 2" from the panels edges below.

Manufacturing Locations			
Allendale, SC	TECO #559	Guntown, MS	TECO #502
Barwick, ON	APA #498	Huguley, AL	APA #503
Bemidji, MN	APA #507	Jefferson, TX	TECO #504
Chambord, QC	APA #556	Joanna, SC	APA #505
Cordele, GA	APA #501	La Sarre, QC	APA #424
Grande Prairie, AB	APA #454	Nacogdoches, TX	APA #506