



Norbord OSB Information Sheet

General – Norbord OSB does not contain any added Urea Formaldehyde resins. For installation instructions refer to the APA's Engineered Wood Construction Guide E30 installation document and/or the appropriate building code and/or the design professionals specifications. Information relevant to certification, span ratings, bond classification and mill identification are included in the APA grade stamp applied to every panel when applicable.

Handling and Storage – Refer to the APA's Engineered Wood Construction Guide E30.

Exposure to Moisture – All rated Norbord OSB has an Exposure1 bond classification. Although panels should not be directly exposed to the weather or moisture on a continuous basis, the Exposure 1 on Norbord OSB indicates that unprotected exposure during ordinary construction periods will not adversely affect the structural properties. Exposure to adverse moisture conditions could result in edge swell. Sanding may be required to level uneven edges prior to finish-covering application. Exposure to certain moisture conditions could also result in development of mould and mildew.

Roof or Floor Sheathing – Norbord OSB used as roof or floor sheathing should be applied with the grade stamp facing down. Always read the grade stamp for up-to-date information.

Installation – Follow the APA Engineered Wood Construction Guide E30 and/or your local building code or design professional's instructions. All panels must be spaced 1/8" along all edges (lightly butt the T&G edges and space square edges 1/8"). Panels are sized to allow this spacing. Tip: use a 10D nail as a space guide. For every continuous section of panels exceeding 80 feet in length, a 3/4" expansion point is required, refer to APA U425C for details.

Nail spacing and type – Refer to the APA's Engineered Wood Construction Guide E30. Always consult your local building official for local requirements and/or design professional's instruction. Staples must be equivalent to the specified nails and may require different spacing (refer to ESR-1539). Windstorm wall sheathing in high wind applications must be installed to a design professionals' fastener schedule. Edge fasteners must be in 3/8" from panel edges and corners.

Ventilation/Moisture Control must be provided in unheated attics and crawl spaces. Net vent openings of at least 1/150th of the attic or crawl space horizontal area are recommended. Building codes require an impermeable moisture barrier on top of the ground cover in all crawl spaces. Attic ventilation should be divided equally between peak and soffit. All exhaust fans from inside the building must be ducted outside the structure. Ventilation and moisture control are the Builder's and/or the Owner's responsibility.

Recommended Uses for Norbord OSB

This End-Use Summary outlines proper spanning capabilities recognized in the U.S. and Canada (as indicated). These uses are recognized through leading code agencies in the U.S. and Canada. Regional codes are subject to periodic changes and local codes can vary widely. It is the responsibility of the user to conform to current requirements of local building authorities.

Application	Structural Use	Category Thickness	Max. Support Spacing (in.) o.c.		Notes
			U.S. Applications	Canadian Applications	
Combination Subfloor Underlayment**	Sturd-I-Floor / Tongue and Groove	19/32 T&G	20	20	Apply panels perpendicular to supports. Combination subfloor underlayment panels must have the T&G edges lightly butted & the square edges spaced 1/8". Some joint sanding may be required if panels are exposed to moisture.
		5/8 T&G	20	20	
		23/32 T&G	24	24	
		3/4 T&G	24	24	
		7/8 T&G	32	32	
		1 T&G	32	32	
1 1/8 T&G	48	48			
Subflooring **	Sturd-I-Floor or Rated Sheathing	7/16	16	N/A	Apply panels perpendicular to supports. If T&G panels are not used, panel edges must be adequately blocked. Space all edges 1/8". Cover with minimum 1/4" underlayment**, accepted lightweight or gypsum concrete**, structural wood flooring**, or block edges.
		15/32, 1/2	16	16	
		19/32, 5/8	20	20	
		23/32, 3/4	24	24	
		7/8, 1, 1 1/8	32	32	
Roof Sheathing (Except for flat roofs used as walking decks)	Sturd-I-Floor or Rated Sheathing	3/8	24	16	Apply panels perpendicular to supports. Space all panels edges 1/8". Except where noted, edge support is required at maximum spans. Use 2 panel H-clips between supports spaced 48". Tongue & Groove edges (5/8" & 3/4") or lumber blocking. When used, H-clips aid in properly spacing the 8' panel edges. Panels marked "Wall Use Only" are not to be used in roof applications.
		7/16	24***	24	
		15/32, 1/2	32	32	
		19/32, 5/8	40++	40++	
		23/32, 3/4	48	48	
		7/8, 1, 1 1/8	60	60	
Wall Sheathing	Rated Sheathing	3/8 & greater	24	24	Panels may be applied parallel or perpendicular to supports. High wind areas require panels to be installed vertically. Space all panel edges 1/8". All panel edges shall be supported by blocking for wall sections used in lieu of let-in corner bracing.
Ceilings and Soffits	Sturd-I-Floor or Rated Sheathing	3/8 & greater	24	24	Apply panels perpendicular to supports. Space all panel edges 1/8". Protect the underside of the exposed Norbord OSB soffit with a quality acrylic latex exterior paint system.
Utility	Not Applicable	1/4	16	16	No code approvals are available for structural uses. Excellent Do-It-Yourself panels for decoration & general purpose use. Space all panel edges 1/8". For best results use blocking along all edges and at mid length. A vapour barrier is recommended on the warm side in wall paneling applications.

* Suitable for carpet, wood strip or parquet flooring (must be installed to manufacturer's and/or NWFA instructions). Vinyl flooring requires the use of the vinyl manufacturer's approved underlayment. ** Follow material manufacturer's instructions. *** Edge support not required at 24" span. + If finished floor is to be adhesive-bonded resilient flooring, always use an approved underlayment, following the manufacturer's instruction, over Norbord OSB. ++ Sturd-I-Floor max support spacing 32" o.c.

Specifications

Norbord OSB Product Line

Category Thickness	Performance Rated Under		Span Ratings		Tongue & Groove Edges Available	Tall Wall Sheathing	Windstorm Wall Sheathing	Quake Zone	Bond Classification
	CSA-0325.0.07 (Canada)	PRP-108 PS-2-10 (US)	Roof/Floor or Rated Sheathing	Combination Subfloor/Underlayment					
1/4									Exposure 1
3/8	√	√	24/0 ^A			√		√	
7/16	√	√	24/16			√	√	√	
15/32	√	√	32/16 ^A			√	√	√	
1/2	√	√	32/16 ^A						
19/32	√	√	40/20 ^A	20" o.c. ^B	√				
5/8	√	√	40/20	20" o.c.	√				
23/32	√	√	48/24 ^A	24" o.c. ^B	√				
3/4	√	√	48/24 ^A	24" o.c. ^B	√				
7/8	√	√	48/24	32" o.c.	√				
1	√	√	48/24	32" o.c.	√				
1 1/8	√	√	48/24	48" o.c. ^B	√				

^A Also available Struct1 ^B Also available in Full Face

For Allowable Uniform Roof Live Loads for Norbord OSB rated sheathing panels, with long dimension perpendicular to supports (U.S. applications) ¹ refer to the APA's Engineered Wood Construction Guide E30.

Span Rating	Category Thickness	Maximum Span (inches) o.c.		Notes
		With Edge Support ²	Without Edge Support	
24/0	3/8	24	20 ³	¹ The allowable loads were determined using a dead load of 10psf. If the dead load exceeds 10psf, the live load should be reduced accordingly.
24/16	7/16	24	24	
32/16	15/32, 1/2	32	28	² Tongue-and-groove edges, panel edge clips (one between each support, two between supports at 48" o.c.), lumber blocking or other support.
40/20	19/32, 5/8	40	32	
48/24	23/32, 3/4	48	36	³ 24" for CAT 15/32 and 1/2 panels.
60/32	7/8, 1	60	40	
60/32	1 1/8	60	48	⁴ For continuous roofs over 80' refer to APA U425C for expansion joint details.

For Allowable Uniform Floor Loads Norbord T&G Sturd-I-Floor Panels (U.S. Applications) ¹²³ refer to the APA's Engineered Wood Construction Guide E30.

Panel Span Rating	Category Thickness	Span (Inch) o.c.	Notes
20" o.c.	19/32, 5/8	19.2	¹ Panels are continuous over two or more spans and installed with the long panel direction perpendicular to supports.
24" o.c.	23/32, 3/4	24	
32" o.c.	7/8, 1, 1 1/8	32	² Uniform load deflection limitations: L/360 of the span under 85 spf.
48" o.c.	1 1/8	48	
			³ Edges must have tongue-and-groove joints or must be supported with blocking.
			⁴ For continuous floors over 80' refer to APA U425C for expansion joint details.

Panels thicker than 1/4 are certified by the APA, the Engineered Wood Association, in compliance with APA's Performance Standards for Structural Use Panels with certified panels carrying the APA grade stamp and reference to product standards PRP-108 and PS 2-10.

Code recognition is through APA's ESR-2586 code evaluation report, which references the PS-2 standard. This report provides recognition by ICC.

For Canada, Norbord OSB panels comply with CSA Standard O325.0.07 Construction Sheathing.

Although Norbord OSB is widely recognized in Canada and the U.S., regional and local codes can vary widely. It is the users' responsibility to comply with code requirements in their area.

Mills	Certification Agency	Mills	Certification Agency	Mills	Certification Agency
La Sarre, QC	APA #424	Guntown, MS	APA #502	Bemidji, MN	APA #507
100 Mile, BC	APA #445	Barton, AL	APA #503	High Level, AB	APA #540
Grande Prairie, AB	APA #454	Jefferson, TX	APA #504	Chambord, QC	
Barwick, ON	APA #498	Joanna, SC	APA #505		
Cordele, GA	APA #501	Nacogdoches, TX	APA #506		

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