

General – Norbord OSB does not contain any added Urea Formaldehyde resins. For installation instructions refer to the APA’s Engineered Wood Construction Guide E30V 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 E30V.

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 E30V and/or your local building code or design professional’s instructions. All panels must be spaced 1/8” along all edges (T&G panels are to be spaced 1/8” on the square edges). 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 E30V for details.

Nail spacing and type – Refer to the APA’s Engineered Wood Construction Guide E30V. 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.

Adequate ventilation 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. Attic ventilation should be divided equally between roof and soffit. Exhaust fans must be ducted outside the structure.

Building codes require an impermeable moisture barrier on top of the ground cover in all crawl spaces.

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	5/16	16	16	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.
		3/8 & greater	24	24	
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 as base for carpet, wood strip or parquet flooring only. The use of any vinyl flooring requires the use of an approved underlayment on top of the OSB Subfloor. ** 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	4x9 & 4x10 Wall Sheathing	Windstorm Wall Sheathing	Struc1 Available	Bond Classification
	CSA-0325.0-92 (Canada)	NER-108 PS-2-04 (US)	Roof/Floor or Rated Sheathing	Combination Subfloor/Underlayment					
1/4									Exposure 1
5/16	√	√	16 (wall)			√			
3/8	√	√	24/0			√		√	
7/16	√	√	24/16			√	√		
15/32	√	√	32/16			√	√	√	
1/2	√	√	32/16					√	
19/32	√	√	40/20	20" o.c.	√			√	
5/8	√	√	40/20	20" o.c.	√				
23/32 ^A	√	√	48/24	24" o.c.	√			√	
3/4 ^A	√	√	48/24	24" o.c.	√			√	
7/8	√	√	60/32	32" o.c.	√				
1	√	√	60/32	32" o.c.	√				
1 1/8 ^A	√	√	60/32	48" o.c.	√				

^A 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 E30V.

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	

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 E30V.

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	

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 NER-108 and PS 2-10.

Code recognition is through APA's NER-108 code evaluation report, all of which reference the PS-2-04 standard. These reports provide recognition by BOCA, ICBO, and SBCCI.

For Canada, Norbord OSB panels comply with CSA Standard O325.0-92 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
Bemidji, MN	APA #507	Jefferson, TX	APA #504
Cordele, GA	APA #501	La Sarre, QC	APA #424
Guntown, MS	APA #502	Nacogdoches, TX	APA #506
Barton, AL	APA #503	Val d'Or, QC	APA #508
Joanna, SC	APA #505		

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