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RIENTED S TRAN D B OARD

## ALLOWABLE UNIFORM LOAD CAPACITY (PSF) ON SHEATHING

The attached information is based upon recognized industry standards, testing and quality control procedures. The information is provided for information purposes. For project specific application, a design professional should be consulted.

SPAN RATING	TYPICAL NOMINAL PANEL THICKNESS <sup>a</sup>	MAXIMUM RECOMMENDED SPAN		LOAD GOVERNED BY	SPAN - Center-to-Center of Supports (in)												
		WITH EDGE SUPPORT	W/O EDGE SUPPORT		STRENGTH AXIS PERPENDICULAR TO SUPPORTS									STRENGTH AXIS PARALLEL TO SUPPORTS			
					12	16	19.2	24	30	32	36	40	48	60	12	16	24
24/0	3/8	24	20 <sup>b</sup>	L/360	261	98	54	26	13	10	9	---	---	---	49	18	---
				L/240	392	147	81	39	19	16	14	---	---	---	71	27	---
				L/180	522	196	107	52	26	21	18	---	---	---	96	37	---
				Bending	208	117	81	52	33	29	19	---	---	---	139	238	---
				Shear	314	228	186	147	116	108	92	---	---	---	620	449	---
24/16	7/16	24	24	L/360	339	128	70	34	17	14	12	9	---	---	71	27	---
				L/240	509	191	105	51	25	20	18	13	---	---	105	40	---
				L/180	679	255	140	68	33	27	24	17	---	---	139	52	---
				Bending	267	150	104	67	43	38	24	19	---	---	164	93	---
				Shear	362	262	215	169	133	125	106	95	---	---	620	449	---
32/16	15/32	32	28	L/360	500	188	103	50	24	20	18	13	---	---	108	40	12
				L/240	750	282	154	75	37	30	26	19	---	---	164	62	21
				L/180	1001	376	206	100	49	40	35	25	---	---	217	83	27
				Bending	308	173	120	77	49	43	27	22	---	---	238	133	46
				Shear	400	290	237	187	147	138	117	105	---	---	768	554	344
40/20	19/32	40	32	L/360	979	368	201	98	48	39	34	25	16	---	241	89	31
				L/240	1468	552	302	146	72	58	51	37	24	---	362	136	46
				L/180	1958	736	403	195	96	78	69	49	32	---	486	182	62
				Bending	521	293	203	130	83	73	46	38	26	---	387	217	77
				Shear	505	366	299	236	186	174	147	132	114	---	973	706	437
48/24	23/32	48	36	L/360	1740	655	358	174	85	69	61	44	29	14	396	148	49
				L/240	2610	982	537	260	128	104	91	66	43	21	598	223	74
				L/180	3480	1309	716	347	170	139	122	88	57	28	796	300	102
				Bending	704	396	275	176	113	99	63	51	35	23	582	325	117
				Shear	648	469	384	302	239	223	189	170	147	116	1122	812	502

a Predominant panel thickness for the given Span Rating is provided. For alternate panel thicknesses, refer to "Span Rating and Nominal Thickness Table" below  
b 20 in. for 3/8" panels; 24 in. for 15/32" and 1/2" panels

ADJUSTMENT FACTORS			
STRUCTURAL I RATED SHEATHING	1.67	PARALLEL TO SUPPORT ONLY	
WET OR DAMP CONDITIONS		SPAN CONDITION	
Deflection	0.85	2-SPAN TO 1-SPAN	Deflection 0.42
Bending	0.75		Bending 1.00
Shear	0.75		Shear 1.25
DURATION OF LOAD		3-SPAN TO 1-SPAN	
Permanent (over 10 years)	0.90	BENDING AND SHEAR ONLY	Deflection 0.53
Snow (2 months)	1.15	BENDING AND SHEAR ONLY	Bending 0.80
Wind or Seismic	1.60*	BENDING AND SHEAR ONLY	Shear 1.20
Impact	2.00	BENDING AND SHEAR ONLY	

\*Adjustment factor for Wind and Seismic may not apply depending on the local building code adopted and/or load combination factors.

**Notes:**

- OSB meets the minimum performance criteria in accordance with APA PRP-108, *Performance Standards and Policies for Structural-Use Panels* and the Voluntary Product Standard PS 2-92, *Performance Standard for Wood-Based Structural-Use Panels*.
- Normal duration of load and dry-conditions
- No consideration for pressure treated or fire-retardant treated panels.
- Allowable loads and adjustment factors are in accordance with the ANSI / AF & PA NDS-????, *National Design Specification for Wood Construction*
- Minimum APA Rated Sheathing EXP 1 or 2. If APA Structural I Rated Sheathing is desired, refer to adjustment factors below.
- Multiple span conditions and a minimum 24" panel width:
  - for strength axis perpendicular to supports, 3-span conditions are considered for spans of 32" or less and 2-span conditions are considered for spans greater than 32".
  - for strength axis parallel to supports, 3-span conditions are considered for spans of 16" or less and 2-span conditions are considered for spans of 24".
- 2" nominal framing members are assumed for support spacings less than 48" center-to-center. 4" nominal framing members are assumed for support spacings of 48" or greater.

SPAN RATING AND NOMINAL THICKNESS TABLE									
SPAN RATING	NOMINAL THICKNESS								
	3/8	7/16	15/32	1/2	19/32	5/8	23/32	3/4	7/8
24/0	P	A	A	A					
24/16		P	A	A					
32/16			P	A	A	A			
40/20					P	A	A	A	
48/24							P	A	A

P = Predominant nominal thickness for each Span Rating

A = Alternative nominal thickness that may be available for each Span Rating. Check with local suppliers for availability.