5 ply / 5 layer 11/16" MDO

Tables derived on: May 12, 2011
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Design Capacities

Along Panel			Across Panel		
MOE	MOR	F_s			
1,500,000	1,190	63			<-- Based on wet stresses, S-2 stress level, Form Y510
I		0.20	I		0.07
KS		0.53	KS		0.33
lb/Q		6.38	lb/Q		3.51
EI	F_bS	F_sIb/Q	EI	F_bS	F_sIb/Q
301,707	635	402	104,643	389	221

Panel Thickness (in.)	0.688
Duration of Load Factor	1.25
Experience Factor	1.30
Bending and Shear Deflection	2

Note: 1 = combined, 2 = separate

	No. of Spans	
SW =	PDS	[enter "PDS" or actual support width (in.)]
Spans =	PDS	[enter "PDS" or actual number of spans up to 3]
Panel length (in.) =	96	
Panel width (in.) =	48	

PDS note: For spans <48 in., SW assumed to be nominal 2x, for spans >= 48 in. nominal 4x assumed.
PDS note: When panel strength axis is across supports; spans <= 32 in., 3 spans are assumed, for spans >32 in. 2 spans are assumed. When panel strength axis is parallel supports; spans <= 16 in., 3 spans are assumed, for 16 in. >spans >=24 in. 2 spans are assumed, spans > 24 in., 1 span is assumed.

Panel Strength Axis Across Supports, Spans (o.c.)

	4	8	12	16	19.2	24	30	32	36	40	48	60
Applied SW =	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.5	3.5
L_1 (in.) =	4	8	12	16	19.2	24	30	32	36	40	48	60
L_2 (in.) =	2.5	6.5	10.5	14.5	17.7	22.5	28.5	30.5	34.5	38.5	44.5	56.5
L_3 (in.) =	3	7	11	15	18	23	29	31	35	39	45	57
SW Factor (in.) =	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.625	0.625
Applied Spans =	3	3	3	3	3	3	3	3	2	2	2	2

Panel Strength Axis Parallel to Supports, Spans (o.c.)

	4	8	12	16	19.2	24	30	32	36	40	48	60
Applied SW =	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.5	3.5
L_1 (in.) =	4	8	12	16	19.2	24	30	32	36	40	48	60
L_2 (in.) =	2.5	6.5	10.5	14.5	17.7	22.5	28.5	30.5	34.5	38.5	44.5	56.5
L_3 (in.) =	3	7	11	15	18	23	29	31	35	39	45	57
SW Factor (in.) =	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.625	0.625
Applied Spans =	3	3	3	3	2	2	1	1	1	1	1	1

Panel Strength Axis Across Supports, Spans (o.c.)

	4	8	12	16	19.2	24	30	32	36	40	48	60
L/360	10,850	2,260	845	395	235	125	65	55	45	35	25	10
L/270	14,465	3,010	1,130	525	315	165	85	70	60	45	30	15
Bending	7,735	1,935	860	485	335	215	140	120	75	60	45	30
Shear	5,225	2,010	1,245	900	740	580	460	430	365	325	280	220
Deflection*	0.01	0.02	0.03	0.05	0.08	0.12	0.18	0.20	0.16	0.20	0.27	0.45

Panel Strength Axis Parallel to Supports, Spans (o.c.)

	4	8	12	16	19.2	24	30	32	36	40	48	60
L/360	6,865	1,150	370	160	115	60	15	10	5	5	5	0
L/270	9,150	1,530	495	210	150	75	15	15	10	5	5	0
Bending	4,735	1,185	525	295	165	105	65	60	45	40	25	15
Shear	2,870	1,105	685	495	390	305	300	280	250	225	195	150
Deflection*	0.00	0.02	0.05	0.08	0.08	0.12	0.43	0.52	0.63	0.86	0.98	1.51

* Average deflection at maximum recommended load based on strength (in.)

The Following Is A Short Table Of Net Results From The Load-Span Table:
(Recommended loads less than 100 psf are not shown - English units only)

Panel Strength Axis Across Supports, Spans (o.c.)

	4	8	12	16	19.2	24	30	32	36	40	48	60
L/360	5,225	1,935	845	395	235	125	---	---	---	---	---	---
L/270	5,225	1,935	860	485	315	165	---	---	---	---	---	---

Panel Strength Axis Parallel to Supports, Spans (o.c.)

	4	8	12	16	19.2	24	30	32	36	40	48	60
L/360	2,870	1,105	370	160	115	---	---	---	---	---	---	---
L/270	2,870	1,105	495	210	150	---	---	---	---	---	---	---