



Four Seasons Solar Products LLC

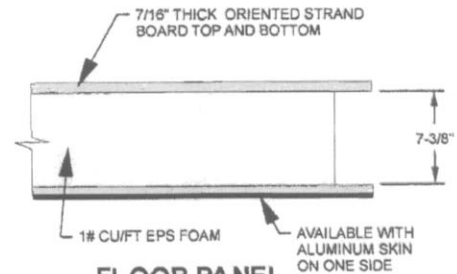
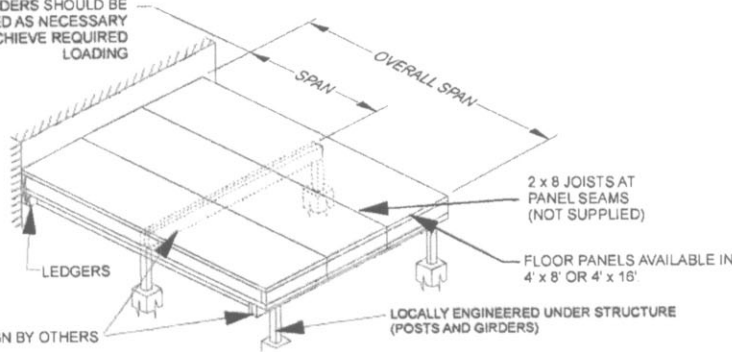
CONSERVADECK™

8-1/4" INSULATED FLOORING SYSTEM ALLOWABLE LIVE LOADS

EFFECTIVE DATE 04-06 SL

PANEL TYPE	SPAN	RECOMMENDED ALLOWABLE LIVE LOAD		MAXIMUM ALLOWABLE LIVE LOAD	
		DEFLECTION = L/600		DEFLECTION = L/360	
		PSF	KG/M ²	PSF	KG/M ²
7/16" OSB 7-3/8" EPS (1LB PER CU/FT) 7/16" OSB NOTE: FOR HARD SURFACE FLOORING WE RECOMMEND PLYWOOD, OR WONDERBOARD, BE STAGGERED ON TOP OF OSB SURFACE USING GLUE AND SCREWS USE L/600 DEFLECTION LOAD VALUES	6 FT [1.83 M]	265	1294	265	1294
	7 FT [2.13 M]	227	1108	227	1108
	8 FT [2.44 M]	172	840	199	972
	9 FT [2.74 M]	123	600	177	864
	10 FT [3.05 M]	90	439	153	747
	11 FT [3.35 M]	68	332	116	566
	12 FT [3.66 M]	52	254	90	439
	13 FT [3.96 M]	41	200	70	342
	14 FT [4.27 M]	32	156	56	273
	15 FT [4.57 M]	25	122	45	220
	16 FT [4.88 M]	20	98	37	181

GIRDERS SHOULD BE SPACED AS NECESSARY TO ACHIEVE REQUIRED LOADING



FLOOR PANEL CROSS SECTION

- MATERIALS:**
- POLYSTYRENE CORE:**
 - TENSILE STRENGTH = 16 - 20 psi.
 - SHEAR = 18 - 22 psi.
 - SHEAR MODULUS (Gc) = 280 - 320 psi.
 - MODULUS OF ELASTICITY = 180 - 220 psi.
 - ORIENTED STRAND BOARD (OSB):**
 - MODULUS OF RUPTURE = 644 psi.
 - MODULUS OF ELASTICITY = 723810 psi.
 - MOR-AD M-600 SERIES ADHESIVE:**
 - TENSILE SHEAR BOND = 30 psi.
- NOTES:**
- ADDITIONAL LOADS APPLIED TO BEAM FROM WIND FORCES MUST BE EVALUATED SEPARATELY FOR EACH JOB.
 - ALLOY FOR THE ALUMINUM PANEL IS 3105-H25.
 - DEAD LOAD OF FLOOR SYSTEM IS 11 PSF PANEL CONSTRUCTION.
 - ALL UNITS SHOWN ON THIS PAGE ARE ACCEPTABLE FOR CONSTRUCTION IN SEISMIC DESIGN CATEGORY D-I FOR ROOF LOAD LESS THAN OR EQUAL TO 30 PSF. FOR HIGHER ROOF LOADS, THE ROOM HAS TO BE EVALUATED FOR SEISMIC.
 - DEAD LOAD OF FLOORING MATERIALS MUST BE SUBTRACTED FROM LOADS SHOWN IN CHART ABOVE.
 - LOADS ARE BASED ON 2003 INTERNATIONAL BUILDING CODE.
 - THIS SUMMARY PERTAINS TO THE STRUCTURAL INTEGRITY OF OUR UNIT UP TO, BUT NOT INCLUDING THE CONNECTIONS TO THE EXISTING STRUCTURE AND/OR ANY NEW CONSTRUCTION. ALL SUBSTRUCTURE DESIGN REQUIREMENTS AND CONNECTIONS TO THE EXISTING STRUCTURE ARE NOT INCLUDED IN THE SCOPE OF WORK FOR THE FOUR SEASONS PRODUCT, AND MUST BE DESIGNED BY OTHERS.
 - THE ENGINEERING DESIGN SCOPE FOR THE FOUR SEASONS PRODUCT DOES NOT ACCOUNT OR SPECIAL LOAD CONDITIONS CREATED BY ATTACHMENT TO THE EXISTING STRUCTURE. ANY SPECIAL LOADING CONDITIONS MUST BE EVALUATED BY OTHERS.
 - ENGINEERS CERTIFICATION: I CERTIFY THAT THESE ENGINEERING SPECIFICATIONS HAVE BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT I AM A REGISTERED PROFESSIONAL ENGINEER IN THE STATES SHOWN.