

JOB PROFILE - LEED GOLD CERTIFIED

SUN-N-FUN LIFESTYLE WELLNESS CENTER SARASOTA, FL

Architect: Carlson Studio
Architecture
Sarasota, FL

Owner: Sarasota Sun N Fun RV
Resort & Campground.

Product: Tectum IIIP Roof Deck

Structural Engineer:
Hees & Associates Inc.
Sarasota, FL

Construction Manager:
Creative Contractors
Clearwater, FL

Photographer:
Dickinson Studios
Sarasota, FL



"We wanted the 'wow!' factor... we like to think of ourselves as a leader in the resort and campground industry. We knew that by making a statement, it would take us that far ahead ... to what our new guests will appreciate." said Tim Deputy, Sun-n-Fun's general manager.



This \$5 million dollar, 18,716 SF Indoor Pool and Exercise facility is a two time "Mega-Resort of the Year" award winner by the National Association of RV Parks & Campgrounds. Looking to provide modern services to attract their next generation of retired travelers to the park, Sun-N-Fun wanted to make a statement with their new structure. The Lifestyle Wellness Center's program is comprised of a therapy spa & pool, a five lane 25 meter indoor pool, a



beautifully day lit aerobics & spinning room, a fully equipped exercise room that cantilevers over the pool deck, steam & sauna rooms, locker rooms, and access to adjacent exterior spas and pools.

The design architect wanted to express the structure by exposing it as often as possible. Glue laminated beams supported by tube steel columns on the north and a stack bond exposed masonry wall on the south span the large indoor pool. The 100 foot span is divided using two 50' glue laminated beams, which support the Tectum IIIP Roof Deck panels. The Tectum Roof Deck offers a single-step easy installation, high insulation values and acoustical noise reduction in the pool area.

The goal for Sun-N-Fun RV Resort was a Lifestyle Wellness Center that was both healthy & energy efficient. The Wellness Center achieved these goals as is evidence by the LEED Gold Certification.

TECTUM ROOF DECK DESIGN GUIDELINES

DESIGN LOAD DATA**

Span in inches based on nominal 3" wide structural support members Deflection L/240 or less.
Contact Tectum Inc. for recommended spans when used in high-humidity applications.

System	Thickness***	Wt. (psf)***	Product	24"	30"	36"	38"	40"	42"	44"	48"	50"	52"	54"	60"	66"	72"	84"	96"		
Plank	2"	3.5	I	130	75	50	45	40	35												
	2 1/2"	4.5	I	150	120	80	70	60	50	45	35										
	3"	5.3	I	200	125	102	91	82	74	65	50	45	40	35							
LS Plank	2"	3.8	I	130	75	75	75	70	64	57	50	45	40	35							
	2 1/2"	4.7	I	150	120	120	120	114	103	93	77	70	65	60	50	35					
	3"	5.5	I	200	125	125	125	125	120	115	110	104	96	88	71	58	50				
Comp. Plank	3 1/2"	4.4	III	200	180	165	150	135	125	115	95	85	75	70	60	55	50				
	4"	4.6	III		200	195	175	155	140	120	110	100	95	85	70	60	50	35			
	T-III	5"	5.0	III					200	175	135	125	115	105	85	70	60	50	35		
	6", 7"	5.2	III							200	180	170	160	150	125	105	75	60			
	8", 9", 10"	5.5	III											200	165	136	100	75			
NS Plank	2 1/2"	4.7	NS	200	125	100	90	80	74	65	50										
	3"	5.6	NS	200	195	135	120	110	100	90	75	70	65	60	50						
	3 1/2", 4"	6.4	NS		200	195	175	155	140	120	110	100	95	85	70	60	50				
E Plank	2 3/4"	4.4	E	200	125	100	90	80	74	65	50										
	3 1/2"	4.5	E	200	150	135	120	110	100	90	75	70	65	60	50						
	4"	4.6	E	200	180	165	150	135	125	115	95	85	75	70	60	55	50	35			
	5"	5.0	E		200	195	175	155	140	120	110	100	95	85	70	65	60	45			
	6", 7"	5.2	E							200	180	170	160	150	125	105	75	60			
	8", 9", 10"	5.5	E												200	165	130	100	75		

** All published design loads are based on minimum safety factor of four. For example, 50 psf design load has an ultimate load of 200 psf.

*** Thickness and weight are nominal. For loads greater than 200 lbs., contact Tectum Inc.

Tectum IIP Details

