

JOB PROFILE

SWISS VILLAGE - ARTHUR & GLORIA MUSELMAN WELLNESS PAVILION - BERNE, IN

Owner: Swiss Village, Inc.
Berne, IN

Product: Tectum IIP Roof Deck

Architect & Engineer:
Fanning Howey
Celina, OH

General Contractor:
Limberlost
Construction, Inc.
Geneva, IN



The Arthur and Gloria Muselman Wellness Pavilion opened its doors to residents of Swiss Village along with area residents who purchased membership on Friday, January 16, 2009. The ultimate goal of the 21,202 square foot wellness pavilion is to provide the citizens of the southern part of Adams County with the facilities, equipment, and programs to promote an enhanced quality of life.

Facilities include an aquatic center, strength building fitness area, floor exercise space and a game room along with a lounge area.



A Tectum IIP Structural, Acoustical Roof Deck was selected as the structural deck for the natatorium area. A Tectum IIP Roof Deck provides a thermal barrier while controlling reverberation throughout the space.

Reflective lighting was used throughout the natatorium taking advantage of the light-reflective properties of Tectum products.

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

