

JOB PROFILE

LEMONT PARK DISTRICT CORE FITNESS & AQUATIC CENTER - LEMONT, IL

Architect: Gilfillan Callahan Nelson
Architects - Rolling
Meadows, IL

General Contractor:
FE Rooftec

Tectum Representative:
WNK Associates, Inc.

Proudly standing as a pinnacle in the heart of Lemont Park District's Centennial Campus is the Lemont Park District CORE Fitness & Aquatic Complex (The CORE).

CORE FITNESS

The CORE is home to a state-of-the-art fitness facility which houses over 100 pieces of the most innovative fitness equipment and free weights available. Adjacent to the equipment and free-weight rooms is an open area for stretching, warming up and cooling down. Here personal trainers can have one-on-one meeting sessions with their clients to discuss individual progress and goals.

40,000 square feet of Tectum E Roof Deck was used in the field house and adjacent areas to provide structural capabilities and control noise levels. Tectum E composite panels were chosen for this job due to the panel's ability to provide acoustics, insulation and a nailable surface in one product.



ready to meet Lemont's aquatic needs year-round. This aquatic facility and surrounding areas play host to lap swim, water aerobics, swim meets,



open swim, and a variety of other Park District aquatic events!

15,000 square feet of Tectum III Roof Deck was used to provide structural capabilities, a thermal barrier for high-humidity areas and control noise levels in a traditionally loud environment.



AQUATIC CENTER

This modern indoor pool, in addition to the outdoor Centennial Pool, is

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 T-III	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	
	5"	5.0	III						200	175	135	125	115	105	85	70	60	50	35
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.

ENVIRONMENTAL STATEMENT

Tectum panels are made from sustainable domestic, renewable raw materials. The wood fibers (excelsior) used in Tectum panels come from Wisconsin Aspen trees. The Wisconsin Aspen is a self-propagating type tree. When cut, a new tree will begin to grow back from its root structure. In addition, all Wisconsin Aspen used for Tectum is air-dried. No drying kilns are used. The wood is stored in ranks to age naturally. No chemicals are used in the production of any excelsior purchased by Tectum Inc.

Tectum Inc. only purchases excelsior from a single source that is affiliated with both the Forest Stewardship Council (FSC) and the Sustainable Forestry Initiatives (SFI) programs. These programs are a comprehensive system of objectives and performance measures that integrate the perpetual growing and harvesting of trees with the protection of wildlife, plants, soil and water quality. All loggers are trained to adhere to FSC and SFI principles.

Magnesium oxide is mixed with magnesium sulfate (Epsom salts) to form the primary binder. Tectum Inc. manufactures the magnesium sulfate solution on site using waste material that has been generated since production began in 1949. The secondary binder is composed of sodium silicate and calcium carbonate (limestone). All of the water used in the manufacture of Tectum is captured and recycled.

TECTUM PRODUCTS AND LEED

Tectum products may contribute to the following LEED credit areas:

- EA Prerequisite 2: Fundamental Energy Performance
- EA Credit 1: Optimized Energy Performance
- MR Credits 2.1 and 2.2: Construction Site Waste Management
- MR Credits 4.1 and 4.2: Recycled Content
- MR Credit 7: Certified Wood
- EQ Prerequisite 3: Minimum

- Acoustical Performance
- EQ Credit 3.1 and 3.2: Construction IAQ Plans
- EQ Credit 4.1: Low-Emitting Materials, Adhesives and Sealants
- EQ Credit 4.4: Low-Emitting Materials, Composite Wood & Agrifiber Products
- EQ 10: Mold Prevention (LEED for Schools)
- EQ Credit 11: Low-Impact Cleaning and Maintenance Equipment Policy (LEED for Schools)
- ID 1 - 1.4: Innovation in Design

For complete information about Tectum products and LEED, please see our Marketing Bulletins M-81 (Tectum Products and LEED Certification) and M-83 (Tectum Products and LEED Q & A) or our Environmental Statement. All of these materials are available online at www.tectum.com.