TECTUM INC
The Noise Control Solution

TECTUM Firing Range Panels

Tectum products have a long and successful history in firing ranges in the U.S. and internationally. Abuse-resistant acoustics make Tectum panels the preferred solution for the extremely challenging environment of a firing range. Tectum Firing Range Panels offer a noise reduction coefficient (NRC) of up to 1.00 and does not deflect errant bullets.

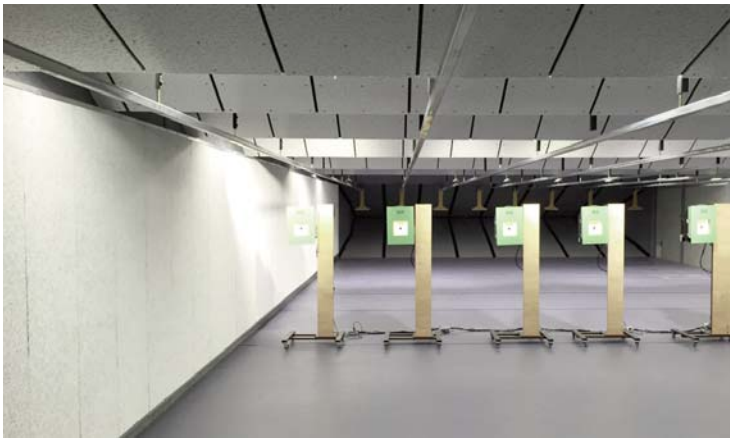
To see Tectum panels "under fire", visit these prominent firing ranges:

- National Rifle Association Range - Fairfax, VA
- FBI Range - Washington, DC
- Federal Law Enforcement Training - Center Artesia, NM
- Federal Building Range - Pittsburgh, PA
- US Parks Department - Washington, DC
- City of Alexandria Range - Alexandria, VA
- LAPD Firing Range - Los Angeles, CA
- Minnesota Department of Natural Resources Hibbing, MN
- Arlington Police Department - Arlington, TX
- Tucson Police Department - Tucson, AZ
- Pop's Guns - Indianapolis, IN
- Al Wusayl Olympic Shooting Range - Doha Qatar
- NSA Fort Meade - Fort Meade, MD
- Fort A.P. Hill - Fort A.P. Hill, VA
- Talladega Marksmanship Park - Talladega, AL
- Georgia Southern University - Shooting Sports Education Center - Statesboro, GA

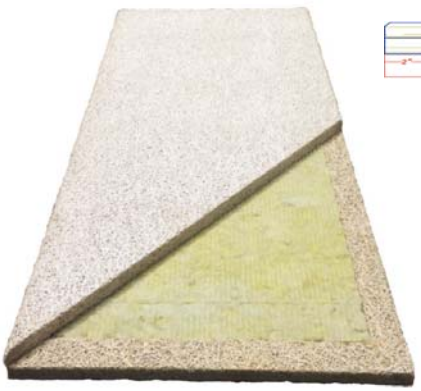
SIZES, FINISHES

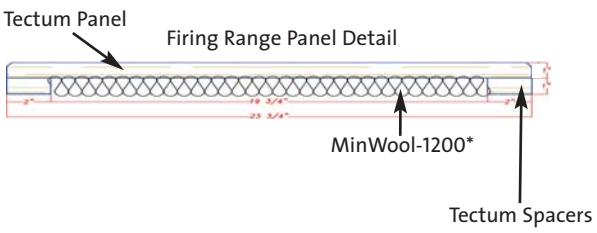
Tectum Firing Range Panel are available in various thicknesses. The panels have widths of 23 ¾" and 47 ¾" with beveled long edges; lengths from 48" – 144". Factory finish is in natural, painted white or custom colors.

Tectum Firing Range Wall Panels and Ceiling Baffles



Firing Range Panel





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TECTUM ACOUSTICAL PERFORMANCE

TECTUM FIRING RANGE PANEL WITH MINERAL WOOL

SOUND ABSORPTION COEFFICIENTS

Panel Type	125	250	500	1000	2000	4000	NRC	SAA	Mounting
1" Firing Range Panel (2" Total Thickness)	.13	.49	1.04	1.05	.87	.95	.85	.87	C-20
1 ½" Firing Range Panel (2 ½" Total Thickness)	.17	.62	1.13	.94	.90	.90	.90	.90	C-20
2" Firing Range Panel (3" Total Thickness)	.27	.88	1.23	.85	.99	.88	1.00	.97	C-20

* Note: Actual thickness is 1" thicker than substrate noted

Surface Burning Characteristics (ASTM E-84)		
Thickness	Flame Spread	Smoke Developed
1"	5	15

ENVIRONMENTAL INFORMATION

TECTUM PRODUCTS' COMPOSITION

The wood fibers (excelsior) used in Tectum panels come from Wisconsin aspen trees. The Wisconsin aspen is a self-propagating 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.

All excelsior used in Tectum products comes from a single source that is Forest Stewardship Council certified. 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 principles.

Magnesium oxide is mixed with magnesium sulfate (Epsom salts) to form the primary binder. The magnesium sulfate solution has been manufactured on site by reclaiming waste materials 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 Inc. fully endorses the LEED Green Building Rating System. Our products may contribute to the following LEED credit areas:

Energy & Atmosphere (EA)
- **Prerequisite 2:** Minimum Energy Performance
- **Credit 1:** Optimized Energy Performance

Materials & Resources (MR)
- **Credit 2:** Construction Site Waste Management
- **Credit 4:** Recycled Content
- **Credit 5:** Regional Materials
- **Credit 6:** Rapidly Renewable Resources
- **Credit 7:** Certified Wood

Indoor Environmental Quality (EQ)
- **Prerequisite 3 (LEED for Schools):** Minimum Acoustical Performance
- **Credit 3.1 & 3.2:** Construction IAQ Plans
- **Credit 4.1:** Low-Emitting Materials, Adhesives and Sealants
- **Credit 4.4:** Low-Emitting Materials, Composite Wood & Agrifiber Products
- **Credit 10 (LEED for Schools):** Mold Prevention
- **Credit 11 (LEED for Schools):** Low-Impact Cleaning and Maintenance Equipment Policy

Innovation (ID)
- **Credit 1:** Innovation in Design

MORE INFORMATION

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 tectum.com/leed.

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