

## **MR-MANUFACTURER**

### **Tectum Inc.**

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Sweet's 09500/TED Buy Line 7499

## **PP-PRODUCT PRESENTATION**

Tectum is composed of aspen wood fibers bonded with an exclusive inorganic hydraulic cement binder, and is formed in a continuous process under heat and pressure. Physical characteristics usually obtained only with a combination of several separate building materials are combined in Tectum: insulation, excellent sound absorption, a decorative textured interior finish, all in a structurally strong yet lightweight product and with a flame spread of less than 25.

## **ENVIRONMENTAL STATEMENT/GREEN ARCHITECTURE**

TECTUM panels are made from sustainable raw materials. The wood excelsior is from new growth that reaches maturity in 25-30 years. The primary source of magnesium oxide used in the binder is sea water. The silicate used in the secondary binder is made from sand. Tectum Inc. recovers waste magnesium and recycles water during the manufacturing process. The recovered magnesium waste is used in the manufacturing of magnesium sulfate, a primary ingredient in the binder. These recent programs have been successful in reducing the water consumed, and reducing the magnesium requirement for the manufacture of magnesium sulfate. TECTUM products continue to meet the need of owners, architects, and engineers who require green building products.

## **CODE ACCEPTABILITY**

### **Surface Burning Characteristics**

#### **Classification (ASTM E84)**

**Finish:** Painted, Unpainted (unfelted)

**Flame Spread:** 15

**Fuel Contributed:** 0

**Smoke Developed:** 0

## **CODE LISTINGS**

1. New York City Board of Standard and Appeals. Calendar No. 391-52-SM.
2. Complies with Federal Specification SS-S-118B Class A.
3. Underwriters Laboratories Label Service. (when specified and ordered)
4. Southern Building Code Congress Report No. 8858.
5. International Conference of Building Officials No. 1116.
6. Building Officials Conference of America see BOCA research report No. 86-39.

## **FEATURES**

- Reduces Noise – NRC up to 1.00
- Class A/Class 1 Interior finish
- Durability – Tough, abuse resistant
- Flexible – easy to use

- Economical
- Can be field painted – for best results use an alkali-stable flat latex base paint spray applied, (approximately 300 square feet per gallon).
- Nationwide distribution – local stocks
- Proven performance – over 40 years
- Easy to install
- There is no asbestos, nor has there ever been any asbestos used in Tectum.
- Tectum Ceiling Panels are also available in metric sizes
- R Value for Tectum panels is 1.75/in.

## **LIMITED WARRANTY**

Tectum Inc. assumes full responsibility for its products and systems when installed in accordance with the Company's published recommendations at the time of purchase. Liability is limited to a refund of the purchase price or replacement of the material. Tectum Inc. will not be responsible for any labor or other charges for replacement or installation of defective material that has been shipped and/or installed, regardless of the circumstances.

All installations should be in accordance with the Ceiling & Interior Systems Construction Association's Code of Practices.

## **TECTUM INTERIOR CEILING PANELS PP-PRODUCT PRESENTATION**

Tectum is a unique high impact wood fiber product lending a singular texture beauty with multiple functions. Tectum panels offer a wide range of sizes; light reflection up to .70, up to 1.00 NRC, is lightweight but tough, can be easily cut, shaped with standard woodworking tools, and installed.

## **TECTUM INTERIOR WALL PANELS PP-PRODUCT PRESENTATION**

Low cost Tectum wall panels provide both sound control and durable insulation in a single material, and can be applied to furring or existing walls with construction adhesive and mechanical systems. Flame spread of 25 or less under the ASTM E84 test method qualifies Tectum to be rated Class A as defined under Federal Specification SS-S-118B.

It can be field painted to coordinate with any color scheme, yet comes either in its own beautiful natural finish or factory painted white, delivered ready for installation. Long edges may be beveled or square.

## **LIMITATIONS**

Tectum acoustical panels can be used over swimming pools and in open construction such as breezeways and open garages. However, they should not be installed where they will come in direct contact with water or condensation. Reveal edge panels (Tonico or Multi-Plane) should not be used for these purposes.

One-inch thick panels over 23-3/4" x 47-3/4" size should not be used where the relative humidity will exceed 85%. Panels thicker than 1" are not restricted by humidity conditions.

In all cases, the plenum must provide cross-ventilation to prevent condensation. The ventilation recommendation of the current edition of the ASHRAE Handbook of Fundamentals, and guide and Data Book should be followed.

For additional information regarding dimension and sound absorption, please refer to charts in our printed Sweet's Catalog 9500TED.