



Tectonite is a durable, heat- and fire-resistant mineral-based product used extensively in the manufacturing of fire-rated doors and door frames.

WARM SPRINGS
COMPOSITE PRODUCTS

PLANT ADDRESS

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MAILING ADDRESS

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TECTONITE 9 A-P DATA INFORMATION

Color	Gray
Density (pcf)	61-72
Modulus of Rupture (ASTM C133) psi.	min. 900
Compressive Strength (ASTM C 109-93) psi.	min. 1586
Moisture Content (%)	<6
Thermal Conductivity (ASTM C182)	946 F 1.33
(BTU-in/hr-ft ² -F)	1632 F 1.36
Shrinkage (ASMT C356) - average. %	4.4
Heat Transfer (ASMT E 152) (F)	
Unexposed Surface Rise Above Ambient 1 1/2" panel, 90 min., 1772 F	193
Screw Withdrawal (Face) (lbs.)	Exceeds all WDMA I.S. 1A Requirements

Sizes Available	4'0" x 8'0" and 4'0" x 10'0" Panels (or custom cut to desired dimensions)
Minimum Thickness	1/2" (finished)
Maximum Thickness	2 1/8" (finished)
Material Safety Data Sheet (MSDS)	Available on request

NOTE: WSCP 412 and Thermal Lite mineral core both carry a Sound Transmission Class rating.

ORDERING

WSCP offers a full range of fire door products from high volume components and banded door core to unique custom products. The company can accommodate special orders and custom banded doors backed by the most stringent certifications. Customers also have the option of purchasing Tectonite in sheet form.

ARCHITECTURAL FIRE-RATED DOOR COMPONENTS





WSCP's proven quality assurance program guarantees materials are consistently produced to the customer's specifications with less waste, superior service and reduced lead times.

IT ALL STARTS WITH TECTONITE.™

Warm Springs Composite Products, a Native American-owned manufacturer based in Central Oregon, has for years supplied its Tectonite-based fire-rated door components to door manufacturers for high-rise commercial and industrial construction projects the world over. A unique amalgam of diatomaceous earth, fiberglass, paper fibers and other ingredients, Tectonite was first developed and tested internally by Warm Springs Composite Products in 1993. The resulting material has since been tested and certified by five different testing agencies to achieve fire ratings under American Standards (UBC 7-2 / UL10© / UL10(b) - 20, 45, 60 & 90 minute), British Standards (BS476: Part 22 - FD60, FD90 & FD120) and European Standards (EN1634-1 – FD60, FD90 & FD120). Widely known in the industry, Tectonite is the basis for WSCP's line of value-added fire-rated door and frame components.

Tectonite characteristics:

- Lightest of comparable products on the market
- Superb screw holding
- Excellent bonding with a variety of adhesives
- Less heat transfer than comparable products
- Low cost

TESTING

Tectonite is certified (UBC 7-2, 90 min.) as a component for fire-rated doors in all openings up to and including 8-foot by 9-foot pairs with all applicable hardware for North America. Testing up to 120 min. has been certified for openings up to 3-meter heights for both British Standards (BS476: Part 22) and European Standards (EN1634-1). Five certifying agencies have successfully tested Tectonite components for fire endurance ratings.

ADDING VALUE

Warm Springs Composite Products produces Tectonite in 4' x 8' or 4' x 10' sheets, which the company sells by the full sheet, half sheet or sanded down and cut into a variety of components including: pre-cut stiles and rails, blocking, banded mineral door cores, raw mineral door cores and concealed vertical rod stiles (CVRs). WSCP's expertise in creating architectural fire-rated components that combine dimensional stability with superb screw-holding capabilities has made it the supplier of choice for door manufacturers both domestically and internationally. WSCP's proven quality assurance program guarantees materials are consistently produced to the customer's specifications with less waste, superior service and reduced lead times.

ARCHITECTURAL FIRE-RATED DOOR COMPONENTS:



RAW MINERAL DOOR CORE

Warm Springs has tested and certified using multiple options of fire-rated raw mineral door cores, all of which conform to UBC 7-2 (1997), British Standard BS476 part 22, and the European EN1634-1 certification standards. These certifications are centered around the development of our own WSCP 412 mineral core and our proprietary Thermal Lite mineral core as the basis, depending on application. All cores can be configured to accommodate a wide variety of constructions, glazing and hardware options, and all are available in thicknesses of 1.5 – 2 inches. Both the WSCP 412 and the Thermal Lite cores carry STC (Sound Transmission Class) ratings and are some of the lightest and most durable mineral cores on the market.

About WSCP Door Cores:

- WSCP is the only component manufacturer to offer different mineral cores for various rated openings
- Five mineral cores with extensive certifications and low cost applications
- Excellent bonding with multiple adhesives
- Lower heat transfer than other cores on the market
- Lightest cores on the market
- Cores are user friendly in manufacturing

FLUSH DOOR COMPONENTS

Fire-rated flush door components are offered in a variety of dimensional sizes. All Tectonite stiles and rails are sanded and cut to each customer's exacting requirements. Tectonite blocking can be pre-cut to a desired dimension or purchased in full sheets or half sheets for processing at the customer's manufacturing facility. Panels are produced in two standard sizes (4' x 8' and 4' x 10'), and may be sanded to the customer's specified thickness. WSCP can provide stiles with wood edge-bands (lipping), in a variety of different species and can install intumescent in components for positive pressure Category A openings.

STILE & RAIL DOOR COMPONENTS

Warm Springs Composite Products also supplies components for fire-rated stile & rail door construction. With the ability to create any size and configuration of components, WSCP can supply customers with any components needed for construction of a simple, single-panel door to a more complex eight-panel door. All Tectonite stiles and rails have been tested extensively and certified. WSCP offers a full line of both Neutral Pressure and Positive Pressure laminated stiles and rails (NP-Tectonite w/wood: PP-Tectonite, w/ intumescent & wood). Inventory includes a variety of wood species, but special orders can be made for those species not stocked.

SPECIALIZED FIRE-RATED COMPONENTS

CONCEALED VERTICAL ROD STILES (CVRs)

WSCP produces customized Concealed Vertical Rod stiles that can be built to accommodate any certified CVR hardware. If required, WSCP can install wood and/or intumescent on the CVR stiles for positive pressure Category A openings. WSCP offers a Pre-Channelled CVR or CVR-LBR meeting edge stile. These pre-channelled stiles can be machined to accommodate most CVR hardware and backsets, in both 60- and 90-minute ratings.

BANDED MINERAL DOOR CORE

Warm Springs Composite Products' fully banded door core is built to each customer's specifications. The company has certifications to produce the full range of fire-rated banded door cores to meet any of our certification standards, using some of the lightest mineral cores in the industry. WSCP's banded mineral cores, using Tectonite stiles and rails, are up to 25 percent lighter than other competing options. Even with this reduced weight, WSCP's cores are stronger and more durable when being processed by door manufacturers. This gives the customer lower freight cost per unit and significantly reduces waste during assembly.

WSCP offers banded mineral cores in sizes to fit openings up to 4' x 10' (single) and 8' x 9' (pairs) for American Standards, and over 3-meter high openings for British & European Standards. Generic sizes and configurations are available, along with custom applications. These cores can be built with or without wood edge-banding. WSCP's inventory of wood edge bands currently includes Hem-Fir, Natural Maple, White Maple and Red Oak. Other species are available on special order.