

# VT INDUSTRIES LEED®

## 2.2 CERTIFICATION OPPORTUNITIES



The LEED® (Leadership in Energy and Environmental Design) Green Building Rating System™ is a voluntary, consensus-based national standard for developing high performance, sustainable buildings. Members of the U.S. Green Building Council representing all segments of the building industry developed LEED and continue to contribute to its evolution.

At VT Industries, we are constantly adapting our manufacturing techniques to ensure environmental responsibility. VT doors have been tested with the GREENGUARD™ Environmental Institute (GEI), and meet their criteria for Indoor Air Quality and Children & Schools. Our products can assist you in achieving LEED credits including recycled content, regional materials, rapidly renewable materials, certified wood and low-emitting materials.

### VT INDUSTRIES CAN ASSIST IN ACHIEVING LEED 2.2 CERTIFICATION

For projects registered with the USGBC after January 1, 2006

LEED CREDIT	LEED CRITERIA	FLUSH DOORS					STILE & RAIL DOORS	
		PARTICLEBOARD	AGRIFIBER	STAVE LUMBER	STRUCTURAL COMPOSITE LUMBER	FIRE RETARDANT	STRUCTURAL COMPOSITE LUMBER	FIRE RETARDANT
4.1	<b>Recycled Content:</b> 10% (post-consumer + ½ pre-consumer)	Yes	Yes					
4.2	<b>Recycled Content:</b> 20% (post-consumer + ½ pre-consumer)	Yes	Yes					
5.1	<b>Regional Materials:</b> 10% Extracted, Processed and Manufactured Regionally	Yes	Yes	Yes	Yes	Yes	Yes	Yes
5.2	<b>Regional Materials:</b> 20% Extracted, Processed and Manufactured Regionally	Yes	Yes	Yes	Yes	Yes	Yes	Yes
6	<b>Rapidly Renewable Material</b>		Yes					
7	<b>Certified Wood</b>	Yes* FSC Certified		Yes FSC Certified				
<b>INDOOR ENVIRONMENTAL QUALITY</b>								
4.4	<b>Low-Emitting Materials:</b> Composite Wood and Agrifiber Products	Yes*	Yes	Yes	Yes	Yes	Yes	Yes

\*FSC Certified, no-added urea formaldehyde particleboard is available upon request.

## GREENGUARD CERTIFICATION PROGRAM<sup>SM</sup>

The GREENGUARD Environmental Institute (GEI) is an industry-independent, non-profit organization that oversees the GREENGUARD Certification Program, establishing acceptable indoor air standards for indoor products, environments and buildings. Testing is conducted in stainless steel environmental chambers expertly designed and constructed for measuring trace contaminants. Certified products are rigorously tested quarterly for chemical emissions using proven, scientifically verified protocols, ensuring improved public health and quality of life through improved indoor air.

Indoor Air Quality performance-based standards define goods with low chemical and particle emissions for use indoors, primarily building materials, interior furnishings, furniture, cleaning and maintenance products, electronic equipment and personal care products. Children are more heavily exposed to environmental toxins than adults. They consume more food and water, and have higher inhalation rates per pound of body weight than adults. To account for inhalation exposure to young children with greater sensitivities, GEI applies increased allowable emission levels for Children & Schools Product Certification.

GREENGUARD certified products are referenced standards in numerous sustainable building initiatives including: Leadership in Energy and Environmental Design (LEED<sup>®</sup>), Collaborative for High Performance Schools (CHPS), Green Guide for Health Care (GGHC), Sustainable Building Industry Council (SBIC) and for the states of Massachusetts, Washington and New York. For more information on the GREENGUARD Certification Program emission standards or to view VT Industries Fine Laminated Countertop compliance certificates visit [www.greenguard.org](http://www.greenguard.org).

## FORMALDEHYDE INFORMATION

Formaldehyde is an important industrial chemical used to make other chemicals, building materials and household products. Building products made with formaldehyde resins can "off-gas" (emit) formaldehyde gas. There are two types of formaldehyde resins: urea formaldehyde (UF) and phenol formaldehyde (PF). Products made of urea formaldehyde can release formaldehyde gas; products made of phenol formaldehyde generally emit lower levels of the gas.

In interior applications, the most significant sources of formaldehyde are likely to be pressed wood products made using adhesives that contain urea-formaldehyde (UF) resins. Pressed wood products made for indoor use include particleboard, hardwood plywood and medium density fiberboard.

Formaldehyde is normally present at low levels, usually less than *0.06 ppm* (parts per million), in both outdoor and indoor air. When present in the air at levels at or above *0.1 ppm*, acute health effects can occur including watery eyes; burning sensations in the eyes, nose and throat; nausea; coughing; chest tightness; wheezing; skin rashes; and other irritating effects. The World Health Organization recommends that exposure should not exceed *0.05 ppm*.

## CONTINUING EDUCATION

VT values the importance of continuing educational efforts and conducts sessions to help architects earn AIA/CES learning units and the Doors and Hardware Institute continuing education program. Our sustainable design education offering, VTI 506 – LEED Choices in Wood Door Construction, centers on sustainable design options for wood doors including: LEED credits, wood door materials and indoor air quality.

The course is approximately one hour long and is registered by VT with the University of Oklahoma for Continuing Education, earning AIA members one learning unit. If interested in taking this course or for more course offerings, please feel free to contact VT Industries at 800.827.1615 ext. 564 or contact your local sales representative to set up a time.



The Architectural Openings Resource

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INDUSTRIES Wood Doors

