

CMI PRODUCTS AND FORMALDEHYDE

CMI Products Contain No Added Urea Formaldehyde

- CraftMaster[®] molded door designs, CraftMaster Green Doors, MiraTEC[®] trim and Extira[®] panels have no added urea formaldehyde. This is certified by Scientific Certification Systems under certificate number SCS-MC-01802. Emission levels of formaldehyde from CMI products are equivalent to trace levels found in the environment.



SCIENTIFIC CERTIFICATION SYSTEMS
SCS-MC-01802

What is formaldehyde and why are emissions being regulated?

- Formaldehyde is an organic chemical compound that is found naturally and is also produced commercially. The human body can easily metabolize small amounts of formaldehyde. Some form of formaldehyde is present in water and food. Wood is a natural formaldehyde-emitting substance in all forms, including trees, furniture and all other wood products.
- Formaldehyde is used to create resins which are used in the production of many building products and textiles. It is also used as a medical disinfectant and in a wide variety of other applications.
- Formaldehyde reacts with phenol, urea and melamine to create the resins used in the manufacture of many building products.
- Formaldehyde at very high levels is considered toxic and is an irritant to the eyes and mucus membranes. It has also been listed as a carcinogen by the IARC (International Agency for Research on Cancer). However, there is much debate on the methodology used to determine toxic levels of formaldehyde. All building products made from composite or natural wood contain formaldehyde in some form.

Contribution to Industry Programs

CraftMaster Molded Door Designs, CraftMaster Green Doors, MiraTEC and Extira qualify for:

LEED [®] for Commercial Interiors	Credits	Description
No Added Urea Formaldehyde	EQ 4.4	Composite wood must contain no added urea formaldehyde resins.

LEED for New Construction and Major Renovations	Credits	Description
No Added Urea Formaldehyde	EQ 4.4	Composite wood and agrifiber products used on the interior of the building

CraftMaster Molded Door Designs, CraftMaster Green Doors and Extira qualify for:

NAHB – National Green Building Standard [™]	Credits	Description
No Added Urea Formaldehyde	901.4 (d)	85% of countertops, permanent shelving, and other nonstructural products manufactured in accordance with the following: composite wood or agrifiber panel products contain no added urea formaldehyde.



CMI PRODUCTS AND FORMALDEHYDE

CARB: Airborne Control Measures for Formaldehyde Emissions

- The California Air Resources Board (CARB) is a department of the California EPA. In April 2007, it created the California Airborne Toxic Control Measure 93120 rule (hereafter referred to as "the rule" or as ATCM) to impose new limits for formaldehyde emissions from most composite wood products. The rule covers any product fabricated, sold or used in the state of California that is composed of particleboard, MDF, thin MDF (less than 8 mm thickness), hardwood plywood, and hardwood plywood made with a composite core of either particleboard or MDF.
- Due to their physical composition, CMI products are not subject to the ATCM rule.
- Repeated testing indicates that CraftMaster molded door facings, CraftMaster Green Doors, MiraTEC trim and Extra panels emit trace levels of formaldehyde in the 0.00 - 0.01 ppm range (Based on testing done in 2008 by the Composite Panel Association, a third party certifier for the CARB ATCM rule). These emission levels are equivalent to background levels found in the environment. These emissions are well below the limits set by CARB.

The emission standards defined by the CARB ATCM rule are as follows:

Effective Date	HWPW-VC	HWPW-CC	PB	MDF	Thin MDF
	Phase 1 (P1) and Phase 2 (P2) Emission Standards (ppm)				
January 1, 2009	P1: 0.08		P1: 0.18	P1: 0.21	P1: 0.21
July 1, 2009		P1: 0.08			
January 1, 2010	P2: 0.05				
January 1, 2011			P2: 0.09	P2: 0.11	
January 1, 2012					P2: 0.13
July 1, 2012		P2: 0.05			

Based on the primary test method [ASTM E 1333-96(2002)] in parts per million (ppm)
 HWPW-VC = veneer core; HWPW-CC = composite core
 Source: CARB, April 2007 available at www.arb.ca.gov/toxics/compwood/compwood.html

Industry Affiliations and Memberships

Sustainable Forestry
 Initiative (SFI)
www.sfiprogram.org

Northern Tier Hardwood
 Association (NTHA)
www.ntha.ws

CMI Engages in Environmental Practices

- CMI completed the Towanda Energy Project which led to a 340 ton annual reduction in air emissions and recycled use of 950,000 cubic yards of waste fiber.
- All CraftMaster doors are delivered on company-owned and operated trucks. CMI picks up customer's empty pallets and reuses or recycles them.
- In each of its facilities, CMI uses energy efficient lighting and participates in on-site recycling programs.
- CMI headquarters is located in a building close to obtaining Gold Status in LEED for Existing Buildings in Chicago, IL.

™ and ® denote trademarks owned by CMI. ©2009 CMI 507 3/09

