

Sustainable Design Information Sheet for 3M Wall Panel System featuring DI-NOC Architectural Finishes

Sept. 2011

Section I. Product Information

Product Name: 3M Wall Panel System featuring DI-NOC Architectural Finishes

Section II. Environmental Policy

Environmental Concerns are integral to 3M and its activities.

In 1975, 3M became one of the first manufacturing companies to establish a formal Environmental Policy. That same year, we adopted our voluntary 3M Pollution Prevention Pays (3P) program based on the then-novel idea that pollution prevention is both an environmental and a competitive/financial strategy.

The 3P program is based on the reality that pollution prevention is more environmentally effective, technically sound and economical than conventional pollution control equipment. In 2002, we revitalized the 3P program to provide more opportunities for participation by our research and development, logistics, transportation and packaging employees with the addition of new award categories and criteria.

Beginning in the early 1970s, 3M's environmental programs set forward-looking corporate policies and environmental targets. Time after time, our pollution prevention efforts have demonstrated that, as we reduce our waste, the environment benefits and we also become a more profitable company.

3M Corporate Environmental Policy

3M will continue to recognize and exercise its responsibility to:

1. Solve its own environmental pollution and conservation problems.
2. Prevent pollution at the source wherever and whenever possible.
3. Develop products that will have a minimal effect on the environment.
4. Conserve natural resources through the use of reclamation and other appropriate methods.
5. Assure that its facilities and products meet and sustain the regulations of all federal, state and local environmental agencies.
6. Assist, wherever possible, governmental agencies and other official organizations engaged in environmental activities.

Section III.

This credit summary is an Impact Analysis of 3M™ DI-NOC™ Wall Panel System as it pertains to the LEED® Rating System. The credits apply to LEED for New Construction (LEED-NC), LEED for Existing Buildings (LEED-EB) and LEED for Commercial Interiors (LEED-CI).

Green Building Design and Construction

LEED Rating Systems	Credit Name	Intent	Requirements	Available Points		
				NC	Schools	CS
Green Building Design and Construction, 2009	MR Credit 1, CS Credit 1.1, NC & Schools: Building Reuse — Maintain Existing Walls, Floors, and Roof	To extend the life cycle of existing building stock, conserve resources, retain cultural resources, reduce waste and reduce environmental impacts of new buildings as they relate to materials manufacturing and transport.	Maintain the existing building structure (including structural floor and roof decking) and envelope (the exterior skin and framing, excluding window assemblies and non-structural roofing material). The minimum percentage building reuse for each point threshold is as follows: 3M™ DI-NOC™ Wall Panel System can contribute to these credits by maintaining the existing stock of walls and ceilings through its innovative Wall Panel System. With its variety of textures and patterns, these substrates and more, can be refreshed to a totally new look and feel.	55% = 1 75% = 2 95% = 3	75% = 1 95% = 2	25% = 1 33% = 2 42% = 3 50% = 4 75% = 5
	MR Credit 1.2 Building Reuse — Maintain Interior Non-structural Elements	To extend the life cycle of existing building stock, conserve resources, retain cultural resources, reduce waste and reduce environmental impacts of new buildings as they relate to materials manufacturing and transport.	Use existing interior non-structural elements (e.g., interior walls, doors, floor coverings and ceiling systems) in at least 50% (by area) of the completed building, including additions. 3M™ DI-NOC™ Wall Panel System can contribute to these credits by maintaining the existing stock of walls and ceilings through its innovative Wall Panel System. With its variety of textures and patterns, these substrates and more, can be refreshed to a totally new look and feel.	1	1	—
	MR Credit 4 Materials Reuse Recycled Content	To increase the demand for building products that incorporate recycled content materials, thereby reducing impacts resulting from extraction and processing of virgin materials.	Use materials with recycled content such that the sum of post-consumer recycled content plus 1/2 of the pre-consumer content constitutes at least 10% or 20%, based on cost, of the total value of the materials in the project. 3M™ DI-NOC™ Wall Panels contain a minimum of 75% recycled, post industrial wood fiber by weight.	10% = 1 20% = 2	10% = 1 20% = 2	10% = 1 20% = 2



Green Building Design and Construction (cont.)

LEED Rating Systems	Credit Name	Intent	Requirements	Available Points		
				NC	Schools	CS
Green Building Design and Construction, 2009 (cont.)	MR Credit 7 Certified Wood	To encourage environmentally responsible forest management.	Use a minimum of 50% (based on cost) of wood-based materials and products that are certified in accordance with the Forest Stewardship Council's principles and criteria, for wood building components. These components include at a minimum, structural framing and general dimensional framing, flooring, sub-flooring, wood doors and finishes. 3M™ DI-NOC™ Wall Panel Systems can be manufactured with wood from FSC certified sources when requested.	1	1	1
	IEQ Credit 3, CS Credit 3.1 NC & Schools: Construction Indoor Air Quality Management Plan — During Construction	To reduce indoor air quality (IAQ) problems resulting from construction or renovation and promote the comfort and well-being of construction workers and building occupants.	Develop and implement an IAQ management plan for the construction and preoccupancy phases of the building as set for in IEQ Credit 3.1. 3M™ DI-NOC™ Wall Panels are precut to fit the space intended for renovation, and therefore could be factored into the IAQ Management Plan. No panel alterations are required eliminating the generation of air particulates or fume from sawing or cutting operations.	1	1	1
	IEQ Credit 3.2 Construction Indoor Air Quality Management Plan — Before Occupancy	To reduce indoor air quality (IAQ) problems resulting from construction or renovation and promote the comfort and well-being of construction workers and building occupants.	Develop and implement an IAQ management plan and implement it after all finishes have been installed and the building has been completely cleaned before occupancy. 3M™ DI-NOC™ Wall Panels are precut to fit the space intended for renovation, and therefore could be factored into the IAQ Management Plan. No panel alterations are required eliminating the generation of air particulates or fume from sawing or cutting operations.	1	1	—
	IEQ Credit 4.2 Construction Indoor Air Quality Management Plan — Before Occupancy	To reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants.	Paints and coatings used on the interior of the building (i.e., inside the weatherproofing system and applied on site) must comply with the criteria set forth in IEQ Credit 4.2. Installing 3M™ DI-NOC™ Wall Panels minimizes the need for painting or applying other decorative finishes that might contribute poor indoor air quality.	1	1	1
	IEQ Credit 4.4 Low-Emitting Materials — Composite Wood and Agrifiber Products	To reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants.	NC & CS: Composite wood and agrifiber products used on the interior of the building (i.e., inside the weatherproofing system) must contain no added urea-formaldehyde resins. Laminating adhesives used to fabricate on-site and shop-applied composite wood and agrifiber assemblies must not contain added urea-formaldehyde resins. Schools: All composite wood and agrifiber products installed in the building interior must meet the testing and product requirements of the California Department of Health Services Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers, including 2004 Addenda. The binder used to manufacture 3M™ DI-NOC™ Wall Panel's wood substrate is water based; no urea-formaldehyde resins are used.	1	1	1

Green Interior Design and Construction

LEED Rating Systems	Credit Name	Intent	Requirements	Available Points
				CI
Green Interior Design and Construction, 2009	MR Credit 1.2 Building Reuse — Maintain Interior Non-structural Elements	To extend the life cycle of existing building stock, conserve resources, retain cultural resources, reduce waste and reduce environmental impacts of new buildings as they relate to materials manufacturing and transport.	Maintain at least 40% or 60% by area of the existing non-shell, non-structural components (e.g., walls, flooring and ceiling systems). 3M™ DI-NOC™ Wall Panel System can contribute to these credits by maintaining the existing stock of walls and ceilings through its innovative Wall Panel System. With its variety of textures and patterns, these substrates and more, can be refreshed to a totally new look and feel.	40% = 1 60% = 2
	MR Credit 4 Materials Reuse Recycled Content	To increase the demand for building products that incorporate recycled content materials, thereby reducing impacts resulting from extraction and processing of virgin materials.	Use materials with recycled content such that the sum of post consumer recycled content plus 1/2 of the pre consumer content constitutes at least 10% or 20%, based on cost, of the total value of the materials in the project. 3M™ DI-NOC™ Wall Panels contain a minimum of 75% recycled, post industrial wood fiber by weight.	10% = 1 20% = 2

Green Interior Design and Construction (cont.)

LEED Rating Systems	Credit Name	Intent	Requirements	Available Points
				CI
Green Interior Design and Construction, 2009 (cont.)	MR Credit 7 Certified Wood	To encourage environmentally responsible forest management.	When using new wood-based products and materials, use a minimum of 50% that are certified in accordance with the Forest Stewardship Council's principles and criteria. 3M™ DI-NOC™ Wall Panel Systems can be manufactured with wood from FSC certified sources when requested.	1
	IEQ Credit 3.1 Construction Indoor Air Quality Management Plan — During Construction	To reduce indoor air quality (IAQ) problems resulting from construction or renovation and promote the comfort and well-being of construction workers and building occupants.	Develop and implement an IAQ management plan for the construction and preoccupancy phases of the building as set forth in IEQ Credit 3.1. 3M™ DI-NOC™ Wall Panels are precut to fit the space intended for renovation, and therefore could be factored into the IAQ Management Plan. No panel alterations are required eliminating the generation of air particulates or fume from sawing or cutting operations.	1
	IEQ Credit 3.2 Construction Indoor Air Quality Management Plan — Before Occupancy	To reduce indoor air quality (IAQ) problems resulting from construction or renovation and promote the comfort and well-being of construction workers and occupants.	Develop an IAQ management plan and implement it after all finishes have been installed and the building has been completely cleaned before occupancy. 3M™ DI-NOC™ Wall Panels are precut to fit the space intended for renovation, and therefore could be factored into the IAQ Management Plan. No panel alterations are required eliminating the generation of air particulates or fume from sawing or cutting operations.	1
	IEQ Credit 4.2 Construction Indoor Air Quality Management Plan — Before Occupancy	To reduce the quality of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants.	Paints and coatings used on the interior of the building (i.e., inside the weatherproofing system and applied on site) must comply with the criteria set forth in IEQ Credit 4.2. Installing 3M™ DI-NOC™ Wall Panels minimizes the need for painting or applying other decorative finishes that might contribute poor indoor air quality.	1
	IEQ Credit 4.4 Low-Emitting Materials — Composite Wood and Agrifiber Products	To reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants.	Composite wood and agrifiber products used on the interior of the building (i.e., inside the weatherproofing system) must contain no added urea-formaldehyde resins. Laminating adhesives used to fabricate on-site and shop-applied composite wood and agrifiber assemblies must not contain added urea-formaldehyde resins. The binder used to manufacture 3M™ DI-NOC™ Wall Panel's wood substrate is water based; no urea-formaldehyde resins are used.	1

Note: USGBC does not certify, promote or endorse products and services of individual companies. Products and services do play a role and can help projects with credit achievement.

LEED, or Leadership in Energy and Environmental Design, is a 3rd party building certification program output by the US Green Building Council. LEED certifies projects, not products. The purpose of certifying projects instead of products is that it puts an emphasis on the building's end results instead of a prescriptive requirement. Although some of the credits have prescriptive requirements, the credits have all been written such that if the intent of the credit is achieved a project will receive points. Thus, the LEED handbook is written such that there is a credit title, intent of the credit, and then recommended, but not prescriptive, methods to obtain the credit. 3M can only offer recommendations for specific credit applications, but credits can only be given by the USGBC.



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