

Products, technologies and concepts on show at “Infinite Innovation”, the multi-sensorial environment of 3M technologies for Ambient Culture

Held at the renowned Triennale di Milano during the 2011 Milan week of design, “Infinite Innovation” is a masterfully staged installation entirely dedicated to a series of advanced, futuristic and sustainable 3M technologies for Ambient Culture in architecture and design, an exploration trip through the world of surface finishing solutions and artificial and natural lighting, allowing for the integration of light as part of the architectural and design project as so-called ambience solutions.

On the following pages, please find an overview of the main products, technologies and concepts of 3M Architectural Markets on show.

Surface Finishing Products

3M™ DI-NOC™ Architectural Finishes

For designers seeking vibrance and movement, 3M™ DI-NOC Architectural Finishes are available in over 500 designs including solid colors and dynamic textures. With DI-NOC architectural finishes, you get the visual impact and beauty of natural materials such as wood, metal and stone at a fraction of the price. DI-NOC architectural finishes are well suited for interior and exterior use, on flat surfaces or complex curves. The material is flexible, durable and lightweight, and can be used on walls, ceilings, doors, furniture or fixtures. 3M™ Comply™ Adhesive Technology air channels enable fast, easy, virtually bubble-free application directly to substrates including ceiling tiles and drywall, saving time and money and making application fast and easy. DI-NOC architectural finishes allow substrates to be refreshed to a new look and feel and may earn LEED credits for material reuse.

3M™ Fasara™ Glass Finishes

3M™ Fasara™ Glass Finishes are decorative glass and window finishes that offer the look and advantages of etched, cut, sandblasted, textured or other expensive decorative glass at a fraction of the price. Fasara glass finishes can be used for interiors on flat surfaces, or on the inside surface of exterior windows. Privacy spaces can also be customized, while light still pours into a space, creating an open feel even in confined spaces. When a new look is desired, simply remove and replace with a different Fasara design or texture.

3M™ Projection Screen Whiteboard Film PWF-500

3M™ Projection Screen Whiteboard Film PWF-500 is an exciting and innovative architectural finish that opens up many new opportunities for interior surfaces. This durable, cleanable, light-reflecting vinyl film is ideal for both use as a whiteboard and a projection screen. It's easy to install and it's removable.

Architectural Lighting Products

3M™ Light Mixing Air Guide

3M™ Light Mixing Air Guide luminaires enable flexible lighting design in lightweight, highly uniform, energy efficient LED lighting solutions. 3M Light Mixing Air Guide utilizes 3M's proprietary light management materials which unleash the potential of LEDs to enable high quality, uniform lighting solutions that can create exciting, comfortable and unique environments.

3M™ Custom Formed Reflectors

3M™ Custom Formed Reflectors allow you to put light exactly where you want it, so it's not wasted where you don't. Highly efficient, true color light reflectors increase the optical efficiency of light fixtures. With a reflectivity of up to 98%, 3M Custom Formed Reflectors can provide a light output increase of up to 30% compared to traditional solutions reducing energy consumption. The material allows for cost-effective solutions of many shapes and sizes. Made from a non-metal, all-polymeric material, 3M Custom Formed Reflectors do not rust and are electrical insulators. Cost-effective tooling and fast turn-around allows you to implement your ideas efficiently.

Architectural Lighting Concepts

Hoop

The huge LED Hoop concept is the signature application created with 3M technologies especially for the "Infinite Innovation" exhibition. Almost three meters in diameter, the hoop is set in a triangular space with colors matching the atmosphere of the environment. The shape of the space and its mirrored top and bottom enable endless reflections and unexpected perspectives. In addition, this impressive display highlights 3M™ Light Mixing Air Guide's uniform light output combined with its lightweight construction, making beautiful design possible.

Tera Wall

Tera Wall concept is a modular lightweight system that can create a large, iconic and visually engaging space while adapting to any environment. This clever design utilizes the lightweight benefits of 3M™ Light Mixing Air Guide and is customizable thanks to the use of 3M™ DI-NOC™ Architectural Finishes alternated with lit modules. In addition to finish customization, this modular concept can be programmed or animated manually to create a unique user experience.

Lightpath

The Lightpath concept, conceived as an application model for "Infinite Innovation", is a creative and smart suggestion for lighting designers on how to take advantage of 3M™ Light Mixing Air Guide technology. Lightpath is a slim, flexible and modular lighting concept that can accommodate a new space or embrace the existing structure and limitations of a retrofit environment. This concept winds along walls and ceilings thanks to its lightweight structure, enabled by the 3M™ Light Mixing Air Guide. This technology also manages the

heat emitted by high brightness LEDs, thus allowing for their installation in slim profile, high uniformity and efficiency.

Blade

Blade is long and slim, with high-style design emitting astonishingly bright light. This application model showcases a cooling solution that requires few LEDs and allows for greater flexibility and longer LED life. This lightweight solution provides energy efficiency without compromised brightness. Excellent for retail settings where bright light is expected.

Daylighting Solutions

3M™ Sunlight Delivery System

3M Architectural Markets Department is currently developing the 3M™ Sunlight Delivery System. This system actively tracks, captures and transports the sun's natural, full visible spectrum daylight deep into the interior spaces of buildings where natural lighting is limited. By harvesting free and abundant light from the sun, the 3M™ Sunlight Delivery System provides a sustainable, energy efficient lighting solution that results in reduced energy demand during high cost, on peak hours. The 3M Sunlight Delivery System is a hybrid lighting solution that incorporates additional artificial lighting and controls, allowing for consistent light levels in overcast and night time situations.

Daylight in the workplace has been shown to improve employee productivity, health, and morale. Use of this system can also help contribute to LEED /sustainable building code certification across multiple credit categories.

For editorial information on the "Infinite Innovation" exhibition and related products:

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