Starry Sky in Restaurant

A simple yet very effective decorative scheme for a restaurant in Belgium. The narrow band of starry sky produced with 50 fibers of different diameters per square meter contributes to create an elegant and sedate atmosphere. The fiber's different diameter is a key element to produce an authentic look.

Materials
SSL050 Starry sky mixed fiber light guide.
MHI302 Modular halogen illuminator with 100W MR16 lamp.

SOLUTION E: Architectural Integrated Lighting Systems

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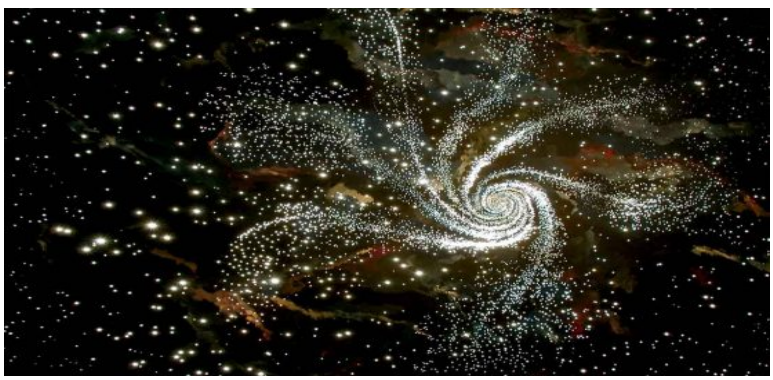
Sidereal Effect

Besides a vast range of standard fiber optics sidereal effects to blend in starry skies, Advanced manufactures custom effects from 1,000 to more than half-a million points, according to the specifications of Architects and designers in 82 countries. Nebulas are one of the most spectacular effects that can be created with fiber optics. The sample below is formed with 16,000 points and covers and area of 9m2.

Materials
HBF201, 0,5mm high performance bare fiber.
AHI illuminators with custom animation drums and 100W MR16 lamps.



Company: AFO

SOLUTION E: Custom Design & Fixtures

Itinerant Archeological Exhibition

Archaeological excavations in south of Croatia yielded important artifacts. The restored pieces went on an itinerant exhibition through Europe (Split, Barcelona, Oxford, Vatican and Zagreb) during 2004 and 2005. The concept design was to present the basic parts in showcases that would fit, regardless of the lighting conditions, into any exhibition space. The fiber optics lighting system delivered an astonishing 700lx of even lighting on the exhibits.

Materials

HBF501 high performance end light fibers inserted and glued directly into the plastic sheet covering the interior of the showcases. MDI101 illuminators fixed directly onto the showcase's structure.

Hilton Phuket Arcadia Resort & Spa

For the ballroom and multi-purpose hall at the Hilton Pucket Arcadia, lighting designer Atch Kosiyabong from Chingchai & Sons Engineering created a stunningly realistic starry sky. The effect covers the full surface of the suspended ceiling with a veritable universe of slowly twinking stars. With dowsed general lighting, the room transforms with an illusion of open space of magical quality.

SOLUTION E: Architectural Integrated Lighting Systems

Materials

High performance Toray bare fibers of different diameters, powered with XXX illuminators equipped with high Kelvin lamps to reproduce accurate star colors.

Company: AFO

Lounge L'Attitude

Spectacular lighting of glass blocks interspaced with pieces of volcanic rock, the structure held in place by standard dry-contention-wall frames. With this choice of structural support, the designer required a light source that would never require maintenance, since access to the transparent blocks would have been impossible. The solution consisted of PMMA light guides with fire rated cladding, each one lighting a single glass stone. Color change of the whole structure is computer-controlled.

Materials

MDI500 illuminators with 150W metal halide lamps, CMY color mixing, capable of reproducing any RAL color, DMX 512 control, 2 real-time sensors, dimming and IP44 rating.
HLG201 High performance 5mm light guide, clad in Megolon, fire resistant and halogen free cladding.

SOLUTION E: Custom Design & Fixtures

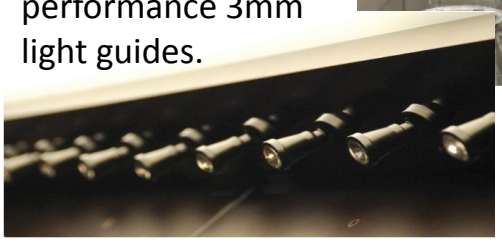
Company: AFO

Museum of Modern Arts

To refurbish and upgrade the showcases of Riga´s Museum of Modern Arts, the design architects chose a fiber optics system capable of delivering cold controlled light without harmful temperature or radiation. The system, involving in excess of two-hundred adjustable fixtures, allows infinite configurations to illuminate each displayed piece with the correct level of illuminance. The lighting system only consumes a total of 500W.

Materials

ADF801 and ADF802 fixtures, powered by XXX001 halogen illuminators and HLG101, high performance 3mm light guides.



SOLUTION E: Custom Design & Fixtures

Restaurant Casserres

The lighting designer needed tiny fixtures to integrate in the floor and steps and deliver tight narrow beams as wallwashers. Our WLP800 series couldn't house a 3W LED. The solution was to design and manufacture 100 custom pieces in light alloy. Color temperature was an issue, as the LED fixtures had to match Formas Projectors equipped with 9/30 HQI 20w.

Materials

Custom WLP800 light alloy, IP65 fixtures equipped with 3W color-corrected LED.

SOLUTION E: Custom Design & Fixtures

Company: AFO

Nou Barris Park

For the largest modern waterworks in Barcelona, comprising a waterfall, geysers, high-pressure lances, arched jets, underwater spots and up lighters, the designers specified fiber optics as sole source of light. The whole installation operates on white light, with the exception of the waterfall where random colors change continuously through infinite combinations. The fiber end points were installed on a specially designed support beaming downwards onto the rushing water sheet. The effect is magical.

Materials

HLG301 6,5mm high performance light guides with waterproof terminations and clad in Megolon.

MDI102, Modular Discharge Illuminators with 6 color dycroic color change and 150W metal halide lamps.

SOLUTION E: Architectural Integrated Lighting Systems

Science Museum

Architectural outlines are one of the most salient applications for sidelight fiber; an effect difficult to accomplish with neon tubes due to the fragility and inherent danger of very high voltages or RGB LED's due to the high cost. In this instance, the tower was outlined in its entirety with sidelight fiber coupled to color change illuminators at a reasonable cost and with minimum maintenance.

Materials

Microbraid HLG401, 18mm sidelight fiber clad on transparent PVC with UV and algae protection.

MDI500 illuminators with 150W metal halide lamps, CMY color mixing, capable of reproducing any RAL color, DMX 512 control, 2 real-time sensors, dimming and IP44 rating.

SOLUTION E: Architectural Integrated Lighting Systems

Company: AFO

SOLUTION E: Custom Design & Fixtures

Off License Shop

Atch Kosiyabong from Chingchai & Sons Engineering were commissioned to develop a state-of-the-art lighting system for the display of liqueurs in custom designed cases. The result is an unobtrusive and elegant system with individually adjustable fiber ends to afford a diversity of aiming and focusing alternatives for any display arrangement.

Materials

HLG201, 5mm high performance light guides with Megolon fire rated cladding.
MDI100 series, 150W discharge illuminators with 4000º K ceramic metal halide lamp.

Shopping Mall

This project entailed lighting the overhead canopy over the main entrance of an Oslo shopping mall and trimming the roof contours of a number of buildings comprising over 500m of edge lines. An Advanced high performance Microbraid sidelight fiber was employed, together with CMY illuminators to provide the exact RAL colors demanded by the designers.

Materials

HMG401 Microbraid woven sidelight guides clad on transparent PVC with UV and algae protection.

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MDI504, 150W gas discharge illuminators with CMY color change, dimmer, and DMX 512 control, capable of producing millions of colors.

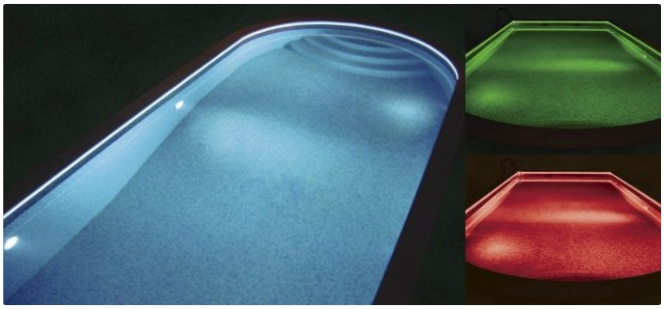
SOLUTION E: Architectural Integrated Lighting Systems

Private Residence

For this small indoor pool, lighting designer Luna Cosi from Lucos Lighting chose a double system of sidelight fiber for the perimeter and RGB floodlights to illuminate the water mass. Each system runs independently to afford users endless possibilities of single or combined effects.

Materials

Perimeter lighting: HMG401 Microbraid high-performance sidelight fiber powered by twin MDI110, 150W metal halide illuminators with 8-color change and DMX control.



Water-mass floodlight: WLP110 stainless steel PAR56 floodlight V2 model 70W LED RGB with DMX control.

St. Regis Hotel, Bangkok

The latest and most exclusive decorative lighting system for high-end pool installation consists on the distribution of fiver optics light points on the pool floor and, at times, on floor and walls. The installation is straightforward with specially clad fibers and stainless steel accessories. In this week's project, Atch Kosiyabong from Chingchai & Sons Engineering the designer made full use of the exciting possibilities of this technology.

Materials

HCF201*, 1mm high performance fibers with halogen-free cladding, powered by MDI100 series, 150W discharge illuminators, with 4000º K ceramic metal halide lamps and sequential dychroic color change.

SOLUTION E: Architectural Integrated Lighting Systems

Advanced Fiber Optics High Performance HCF201 fibers are designed for direct incorporation into the concrete, and have a 20-year guarantee.

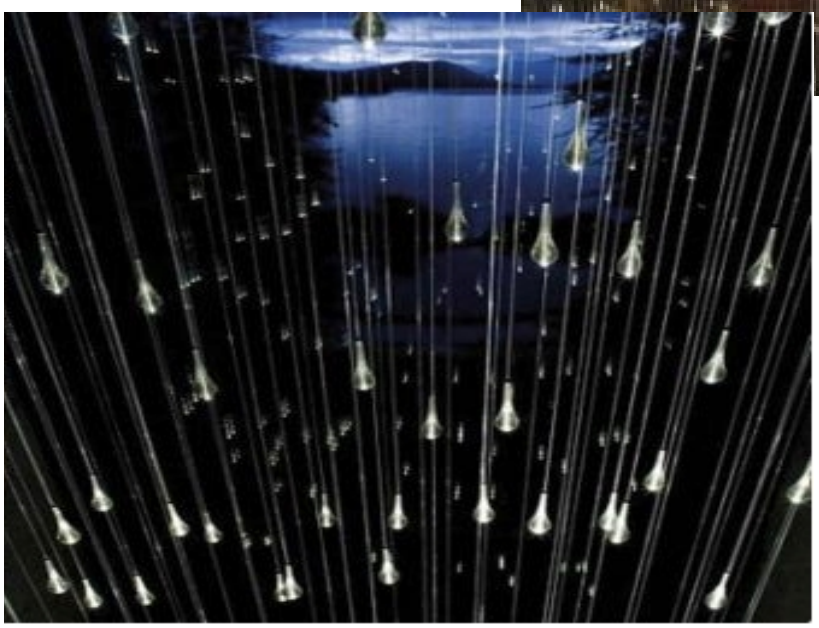
Company: AFO

Salisbury Cathedral's Light Shower

This breathtaking composition is another example of the magic with which Bruce Munro and his team infuse his creations. Spanning the nave, the Light Shower in the ancient Salisbury Cathedral was switched on during the Darkness into Light procession to mark the start of Advent in late November 2010. Though ethereal, Light Shower covers a massive area of 700m3.

Materials

Light Shower took 400 man hours to make and 232 man hours to install. It involves 50Km of HBF400 high performance fiber divided into 1984 strands, each one tipped by a ´Teardrop´ diffuser, and powered by 8 x 150 watt MDI101 metal halide illuminators. All photos by Mark Pickthall.



SOLUTION E:
Custom Lighting Designs, Fixtures & Architectural Integrated Lighting Systems