

# SKY-TECH SKY-LIGHTS

## LEED® CREDITS for the SUNSCOPE NATURAL LIGHTING SYSTEMS

Possible New Construction & Major Renovation Point Contribution

Date: July 20, 2010

<b>Total Possible Project Score 110</b>				<b>Available</b> (new construction)
Certified 40-49 points	Silver 50-59 points	Gold 60-79 points	Platinum 80+ points	

<b>Sustainable Sites</b>	<b>Possible Points</b>	<b>26</b>
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Prereq 1	Construction Activity Pollution Prevention	Required	
Credit 1	Site Selection	1	
Credit 2	Development Density & Community Connectivity	5	
Credit 3	Brownfield Redevelopment	1	
Credit 4	Alternative Transportation	1 to 12	
Credit 5	Site Development	1 to 2	
Credit 6	Storm water Design	1 to 2	
Credit 7.1	Heat Island Effect, Non-Roof	1	
Credit 7.2	Heat Island Effect, Roof	1	
Credit 8.0	Light Pollution Reduction	1	*

Transmittance of less than 10% between 11 pm and 5 am. The SunScope damper, can be used to control the amount of natural light entering and exiting the building. SunScope dampers can be controlled by automatic light sensors.

<b>Water Efficiency</b>	<b>Possible Points</b>	<b>10</b>
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Prereq 1	Water Use Reduction	Required	
Credit 1	Water Efficient Landscaping	2 to 4	
Credit 2	Innovative Wastewater Technologies	2	
Credit 3	Water Use Reduction	2 to 4	

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<b>Energy &amp; Atmosphere</b>	<b>Possible Points 35</b>
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Prereq 1	Fundamental Commissioning of the Building Energy Systems	Required	
Prereq 2.0	Minimum Energy Performance	Required	*
Prereq 3	Fundamental Refrigerant Management	Required	
Credit 1	Optimize Energy Performance	1 to 19	
	12% New Building or 8% Existing Building Renovations	1	
	14% New Building or 10% Existing Building Renovations	1	
	16% New Building or 12% Existing Building Renovations	1	
	18% New Building or 14% Existing Building Renovations	1	
	20% New Building or 16% Existing Building Renovations	1	
	22% New Building or 18% Existing Building Renovations	1	
	24% New Building or 20% Existing Building Renovations	1	
	26% New Building or 22% Existing Building Renovations	1	
	28% New Building or 24% Existing Building Renovations	1	
	30% New Building or 26% Existing Building Renovations	1	
	32% New Building or 28% Existing Building Renovations	1	
	34% New Building or 30% Existing Building Renovations	1	
	36% New Building or 32% Existing Building Renovations	1	

The SunScope collects and transfers daylight into interior spaces, and as a result electricity demand for lighting is reduced. The SunScope units completely control solar heat gain, prevent heat loss, and prevent interior air loss by keeping the building air envelope intact, with use of the thermal barrier design. At least 75% of electricity costs can be saved during the daytime, where SunScopes are used to replace the need for electric lighting. The quality of daylight produced by the SunScope is extremely satisfying, producing excellent natural daylight levels, without glare and with a very even spread of light creating a sense of the "outdoors" in rooms which are lit by SunScopes.

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<b>Energy &amp; Atmosphere</b>		<b>Possible Points</b>	<b>35</b>
	38% New Building or 34% Existing Building Renovations	1	
	40% New Building or 36% Existing Building Renovations	1	
	42% New Building or 38% Existing Building Renovations	1	
	44% New Building or 40% Existing Building Renovations	1	
	46% New Building or 42% Existing Building Renovations	1	
	48% New Building or 44% Existing Building Renovations	1	
Credit 2	<b>On-Site Renewable Energy</b>	<b>1 to 7</b>	
	1% Renewable Energy	1	
	3% Renewable Energy	1	
	5% Renewable Energy	1	
	7% Renewable Energy	1	
	9% Renewable Energy	1	
	11% Renewable Energy	1	
	13% Renewable Energy	1	
Credit 3	<b>Enhanced Commissioning</b>	<b>2</b>	
Credit 4	<b>Enhanced Refrigerant Management</b>	<b>2</b>	
Credit 5	<b>Measurement &amp; Verification</b>	<b>3</b>	
Credit 6	<b>Green Power</b>	<b>2</b>	

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<b>Materials &amp; Resources</b>	<b>Possible Points 14</b>
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Prereq 1	Storage & Collection of Recyclables	Required	
Credit 1	Building Reuse	1 to 4	
Credit 2.0	Construction Waste Management	1 to 2	*
Credit 3.0	Materials Reuse	1 to 2	*
Credit 4.1	Recycled Content, 10% (post-consumer + 1/2 pre-consumer)	1	*
Credit 4.2	Recycled Content, 20% (post-consumer + 1/2 pre-consumer)	1	*
Credit 5.1	Regional Materials, 10% Extracted, Processed & Manufactured Regionally	1	*
Credit 5.2	Regional Materials, 20% Extracted, Processed & Manufactured Regionally	1	*
Credit 6	Rapidly Renewable Materials	1	
Credit 7	Certified Wood	1	

Sky-Tech's recycling program sends 95% of it's aluminum, acrylic, wood, paper and other metals to be recycled. Wood curb downfall used for residential backer boards, Sawdust is composted, non usable scrap wood is used for heating.

Acrylic surplus from skylight manufacturing is used for SunScope components. SunScope products are manufactured with 100% recyclable materials. Aluminum building product components do not rust, or rot and are known for extreme longevity. Electric consumption is significant in producing aluminum, however the embodied energy is dissipated over many years. As a result, aluminum has been referred to as an "energy bank"

At least 20% post-consumer / pre-consumer recycled content is used in our aluminum extrusions. Aluminum extrusion billet contains up to 30% recycled content. Sheet metal recycled content is between 30% and 85%. Extruded acrylic sheet averages 25% recycled content.

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All components and parts, except for the Miro-IV pipe material, are manufactured in Edmonton, Alberta or within 800 km of Edmonton.

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<b>Indoor Environmental Quality</b>	<b>Possible Points 15</b>
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Prereq 1	Minimum Indoor Air Quality (IAQ) Performance	Required	
Prereq 2	Environmental Tobacco Smoke (ETS) Control	Required	
Credit 1	Outdoor Air Delivery Monitoring	1	
Credit 2	Increased Ventilation	1	
Credit 3	Construction IAQ Management Plan	1 to 2	
Credit 4	Low-Emitting Materials	1 to 4	
Credit 5	Indoor Chemical & Pollutant Source Control	1	
Credit 6.1	Controllability of Systems, Lighting	1	*
Credit 6.2	Controllability of Systems, Thermal Comfort	1	
Credit 7.1	Thermal Comfort, Design	1	
Credit 7.2	Thermal Comfort, Verification	1	
Credit 8.0	Light Pollution Reduction	1	*
Credit 8.1	Daylight & Views, Daylight	1 to 2	*
Credit 8.2	Daylight & Views, Views	1	

SunScope dampers are used to control the light output of the SunScope system. Dampers are installed to provide individual control of the light level.

Transmittance of less than 10% between 11 pm and 5 am. The SunScope damper, can be used to control the amount of natural light entering and exiting the building. SunScope dampers can be controlled by automatic light sensors.

SunScope natural lighting systems are designed to bring outside daylight into interior spaces, without the use of any external energy, with no heat loss and no heat gain.

# SKY-TECH SKY-LIGHTS

## LEED® CREDITS for the SUNSCOPE NATURAL LIGHTING SYSTEMS

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### Innovation & Design Possible Points 6

Credit 1.0	Innovation in Design: Exceptional Performance and warranty	1 to 5	*
Credit 1.2	Innovation in Design: Elimination of seasonal affected disorder.	1 to 5	*
Credit 2.0	LEED® Accredited Professional	1	

The SunScope natural lighting system, is engineered and designed for Canadian climatic conditions. With the use of the internal thermal barrier, the unit becomes 100% air tight with no leakage of air through the building envelope air barrier, and no heat loss or gain. The SunScope Miro IV pipe is ISO 9001:2000 certified, and has a 25 year factory warranty that it will not splinter, yellow, darken, peel-off, blister, crack, or develop any other surface deterioration reducing the reflection.

Elimination of "Seasonal Affected Disorder" and "Sick building Syndrome" both caused by the lack of natural daylight. The quality of daylight produced by the SunScope is extremely satisfying, producing excellent natural daylight levels, without glare and with a very even spread of light creating a sense of the "outdoors" in rooms which are lit by SunScopes.

### Regional Priority Credits Possible Points 4

Credit 1	Regional Priority Credit	1 to 4	
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### Other Items

Material safety data sheets

Warranty

Product Specs and Shop drawings

MSDS are available for all components upon request.

Miro IV pipe, 25 years. All other components 10 years. (see Sky-Tech Sky-Lights warranty information sheet)

Available on-line @ [www.sunscope.com](http://www.sunscope.com) or upon request