Aptos Pedestrians utilize energy efficient LEDs and minimize light pollution. Fixtures are low maintenance and can be disassembled to separate recyclable components. Aluminum and acrylic components are 100% recyclable. The powdercoat finish is low- or no-VOC, depending on color.

Recycled Content & Certifications

Configurations	Pre-Consumer Recycled Content	Post-Consumer Recycled Content	Total Recycled Content	3 rd Party Certifications
Aptos Pedestrian, 12-foot, single luminaire	16%	0%	16%	International DarkSky Approved*
Aptos Pedestrian, 12-foot, double luminaire	19%	0%	19%	International DarkSky Approved*



* Aptos Pedestrian 3000K is International DarkSky Approved

Green Building Standards

LEED® v3

SS8: Light Pollution - full light output data is available on Product Data Sheets. Contact for details.

EAp2/EA1: Optimize Energy Performance - the low power consumption of the LEDs used in this product reduces energy consumption. LEDs also produce a more uniform, directional form of illumination allowing lower levels of light to meet lighting requirements.

MR2: Construction Waste Management - packaging is designed to be reusable or recyclable. See below for details.

MR4: Recycled Content - this product contains recycled material. Recycled content is shown above for all standard options.

MR5: Regional Materials - this product is manufactured in Pittsburgh, PA. Contact for extraction information.

LEED v4

SS6: Light Pollution Reduction - full light output data is available on Product Data Sheets. Contact for details.

EAp2/EA2: Optimize Energy Performance - the low power consumption of the LEDs used in this product reduces energy consumption. LEDs also produce a more uniform, directional form of illumination allowing lower levels of light to meet lighting requirements.

MRp2/MR5: Construction Waste Management - packaging is designed to be reusable or recyclable. See below for details.

MR3: Sourcing of Raw Materials (recycled content) - this product contains recycled material. Recycled content is shown above.

(regional materials) - this product is manufactured in Pittsburgh, PA. Contact for extraction information.

Green Globes™

- 2.6 Exterior Light Pollution full light output data is available on Product Data Sheets. Contact for details.
- 3.1 Energy Performance the low power consumption of the LEDs used in this product reduces energy consumption. LEDs also produce a more uniform, directional form of illumination allowing lower levels of light to meet lighting requirements.
- 5.4 Sustainable Materials Attributes (recycled content) this product contains recycled material. Recycled content is shown above.
- 5.6 Waste (Construction Waste) packaging is designed to be reusable or recyclable. See below for details.
- 5.7 Resource Conservation (Design for Deconstruction) this product can be disassembled to separate recyclable components
- 6.3 Lighting Design and Systems (Lighting Sustainability) please contact for details.

Estidama Pearl Rating System: Design & Construction, Version 1.0

LBo-10: Light Pollution Reduction - full light output data is available on Product Data Sheets. Contact for details.

RE-R1/RE-1: Energy Performance - the low power consumption of the LEDs used in this product reduces energy consumption. LEDs also produce a more uniform, directional form of illumination allowing lower levels of light to meet lighting requirements.

SM-R1: Hazardous Material Elimination - product contains no ACMs and no CCA-treated timber





Green Building Standards continued

Estidama Pearl Rating System: Design & Construction, Version 1.0 (continued)

SM-R2/SM-13: Construction Waste Management - packaging is designed to be reusable or recyclable. See below for details.

SM-4: Design for Disassembly - this product can be disassembled to separate recyclable components

SITES v2 Rating System

Materials C5.3: Design for adaptability and disassembly - this product can be disassembled to separate recyclable components

Materials C5.5: Use recycled content materials - this product contains recycled material. Recycled content is shown above for all standard options.

Materials C5.6: Use regional materials - this product is manufactured in Pittsburgh, PA. Contact for extraction information.

HHWB C6.8: Reduce light pollution - full light output data is available on Product Data Sheets. Contact for details.

Construction C7.5: Divert construction and demolition materials from disposal - packaging is designed to be reusable or recyclable. See below for details.

O+M C8.5: Reduce outdoor energy consumption – the low power consumption of the LEDs used in this product reduces energy consumption. LEDs also produce a more uniform, directional form of illumination allowing lower levels of light to meet lighting requirements.

Product Materials

Material	Description	Mainte- nance (0-5)*	Inherent Value (0-5)**	Biodegrad- able	Corrosion/ Wear Resistant	Rapidly Renewable	Recyclable	Scratch Resistant
Acrylic	Thermoplastic, petroleum-based polymer often used as a substitute for glass because of its high impact strength and clarity.	4	0		x		х	
Aluminum	Corrosion-resistant metal that is suitable for many fabrication methods.	3	3		х		x	

^{*}Maintenance ratings are assigned as follows: 0 – High level of maintenance required to keep up product performance and aesthetics; 5 – Absolutely no maintenance required to keep up product's visual appearance and performance characteristics;

Processes

Process	Description	
Aluminum Making	A two-step process by which the aluminum is first dissolved in a caustic bath and then precipitated out in crystals. This two-step process can be circumvented by using recycled scrap that is melted down to form new parts.	
Casting	The process of creating a solid object by pouring molten metal into a mold and allowing it to cool.	
Cutting	A variety of methods may be used to cut through various materials.	
Machining	A form of subtractive or additive manufacturing often requiring specialty tooling to physically remove or add material to achieve a desired geometry.	
Metal Protection	A process in which metal receives a thin layer of coating to improve corrosion resistance and coating adhesion.	
Plastics Manufacture	Plastic is the common term for a wide range of synthetic or semi-synthetic organic solid materials used in industrial applications. Plastics are typically polymers of high molecular weight, and may contain other substances to improve performance or reduce costs.	
Powdercoating	A solvent-free finishing method in which electrically charged particles of pigmented resins are sprayed onto a product. Electrical grounding of the coated object causes the charged powder to adhere to the surface. When baked in a curing oven the deposited powder melts and fuses together to form a durable, cross-linked coating	
Sand Blasting	d Blasting The process of smoothing, shaping and cleaning a hard surface by forcing solid particles across that surface high speeds to provide an even finish.	
Welding	A process that joins two similar metals by causing coalescence. Usually accomplished by melting the work pieces and adding a filler material to form a pool of molten metal that cools to become a strong joint.	



^{**}Inherent value ratings are assigned based on the material's scrap value: 0 – No scrap value, or negative scrap value, and/or no scrap market; 5 – High scrap value, accompanied by robust scrap market

Packaging Materials

Material	Туре	Description	
Cardboard	Spacer	Used to provide impact cushioning between a product and its package or between two products.	Recycle
Foam	Sheets	Micro foam sheets are used to protect the finish on products.	Reuse
Plastic	Shrink wrap	Shrink wrap is used to protect the finish on products and also to hold padding to products. Clean plastic wrap is recyclable.	Recyclable
Wood	Crate	Wood crates are made to fit onsite. Wood scraps are recycled into mulch. Crates are reused when possible.	Reuse/Recycle
Wood	Pallet	Used in shipping. Reused onsite until no longer serviceable, then recycled.	Reuse/Recycle

Transport

Method	Туре	Description		
Boat	Overseas	Some product components are shipped by cargo ship from overseas		
Ground	Truck/Rail	Some incoming shipments and almost all outgoing shipments to customers are sent via ground transportation. This can include truck and often rail transport depending on the final destination. We are an EPA SmartWay® Transport Partner.		

Maintenance & Use

Maintenance or liee Description		Chemicals Required	
Clean with Water and Mild Cleaner	This product requires a damp cloth and a mild, nontoxic cleaner for maintenance.	Mild, water-based cleaner	
Electricity – LED	Product is available with LED lamping.	N/A	

Disposal

Method	Description
Disassemble Product can be disassembled to separate recyclable components	
Recyclable Metal and acrylic components are recyclable. LEDs may be recyclable in some areas.	
Recycling - Scrap	Materials can be sold for scrap

Forms+Surfaces is dedicated to environmental responsibility. We maintain an Environmental Management System and are continually working to improve our impact through efficiency, material selection, vendor education, employee involvement, and an unwavering commitment to being exemplary corporate citizens. If you would like additional information, please contact our Sustainability Team at green@forms-surfaces.com.

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