

Rincon Bollards utilize energy efficient LEDs, are low maintenance and easy to disassemble. Metal and acrylic components are 100% recyclable. Stainless steel components have a high recycled content and the powdercoat finish is a low- or no-VOC finish, depending on color.

Recycled Content & Certifications

| Configurations | Post-Industrial Recycled Content | Post-Consumer Recycled Content | Total Recycled Content | 3 rd Party Certifications |
|---|----------------------------------|--------------------------------|------------------------|--------------------------------------|
| Rincon Bollard – no shield | Contact | Contact | Contact | - |
| Rincon Bollard – stainless steel shield | Contact | Contact | Contact | - |

Green Building Standards

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| <p>LEED® v3</p> <p>SS8: <i>Light Pollution</i> – full light output data is available on Product Data Sheets. Contact for details.</p> <p>MR2: <i>Construction Waste Management</i> – packaging is designed to be reusable or recyclable. See below for details.</p> <p>MR4: <i>Recycled Content</i> – this product contains recycled material. Recycled content is shown above for all standard options.</p> <p>MR5: <i>Regional Materials</i> – we have manufacturing facilities in Phoenix, AZ, Pittsburgh, PA, and Pune, India. Contact for details.</p> |
| <p>LEED v4</p> <p>SS6: <i>Light Pollution Reduction</i> - full light output data is available on Product Data Sheets. Contact for details.</p> <p>MRp2/MR5: <i>Construction Waste Management</i> – packaging is designed to be reusable or recyclable. See below for details.</p> <p>MR3: <i>Sourcing of Raw Materials (recycled content)</i> – this product contains recycled material. Recycled content is shown above. (regional materials) – we have manufacturing facilities in Phoenix, AZ, Pittsburgh, PA, and Pune, India. Contact for details.</p> <p>MR4: <i>Material Ingredients</i> – this product has a Health Product Declaration. Contact for details.</p> <p>EQ2: <i>Low-emitting Materials</i> – inherently non-emitting sources. Contact for details.</p> |
| <p>Green Globes™</p> <p>3.2.5 <i>Exterior Light Pollution</i> - full light output data is available on Product Data Sheets. Contact for details.</p> <p>3.3.5.6 <i>Exterior Luminaires and Controls</i> – this fixture utilizes energy efficient LEDs. LEDs do not contain mercury. Contact for details.</p> <p>3.5.4.1 <i>Construction Waste</i> – packaging is designed to be reusable or recyclable. See below for details.</p> <p>3.5.6.3 <i>Deconstruction and Disassembly</i> – this product can be disassembled to separate recyclable components</p> <p>3.7.2.1 <i>Volatile Organic Compounds</i> - inherently non-emitting sources. Contact for details.</p> |
| <p>Estidama Pearl Rating System: Design & Construction, Version 1.0</p> <p>LBo-10: <i>Light Pollution Reduction</i> – full light output data is available on Product Data Sheets. Contact for details.</p> <p>LBi-2.5: <i>Material Emissions: Formaldehyde Reduction</i> – inherently non-emitting sources. Contact for details.</p> <p>SM-R1: <i>Hazardous Material Elimination</i> – product contains no ACMs and no CCA-treated timber</p> <p>SM-R2/SM-13: <i>Construction Waste Management</i> - packaging is designed to be reusable or recyclable. See below for details.</p> <p>SM-4: <i>Design for Disassembly</i> - this product can be disassembled to separate recyclable components</p> |

Product Materials

| Material | Description | Maintenance (0-5)* | Inherent Value (0-5)** | Biodegradable | 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 | | x | |
| Aluminum | Corrosion-resistant metal that is suitable for many fabrication methods. | 3 | 3 | | x | | x | |

Product Materials continued

| Material | Description | Maintenance (0-5)* | Inherent Value (0-5)** | Biodegradable | Corrosion/Wear Resistant | Rapidly Renewable | Recyclable | Scratch Resistant |
|--|---|--------------------|------------------------|---------------|--------------------------|-------------------|------------|-------------------|
| Stainless Steel | Steel that is alloyed with chromium and other metals to improve corrosion-resistance. | 3 | 4 | | x | | 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; | | | | | | | | |
| **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 | | | | | | | | |

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. |
| Extruding | Process in which heated metal is pushed through a cross-sectional die to create a linear part with a specific shape. |
| Forming | A mechanical process used to alter the shape of metal. |
| Machining | A form of subtractive or additive manufacturing often requiring specialty tooling to physically remove or add material to achieve a desired geometry. |
| Metal Finishing | Applied using grinding/sanding wheels. Finishing produces a grained or brushed finish on the surface, and depending on the material will increase corrosion resistance. |
| 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 | The process of smoothing, shaping and cleaning a hard surface by forcing solid particles across that surface at high speeds to provide an even finish. |
| Steel Making | Steel and stainless steel are made in one of two types of furnace: a Basic Oxygen Furnace (BOF) or an Electric Arc Furnace (EAF). A BOF is used to make steel from iron ore or from scrap steel; an EAF is used primarily to reprocess scrap steel. |
| 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. |

Packaging Materials

| Material | Type | Description | Disposal |
|-----------|-------------|---|---------------|
| Cardboard | Box | Small or light products products are packaged in cardboard boxes. Reused for shipping. | Reuse/Recycle |
| Foam | Sheets | Micro foam sheets are used to protect the finish on products. | Reuse |
| Foam | Soy Sheets | Soy foam sheets are used to protect the finish on products. | Biodegradable |
| Plastic | Shrink wrap | Shrink wrap is used to protect the finish on products and also to hold padding to products. | Recyclable |
| Wood | Pallet | Used in shipping. Reused onsite until no longer serviceable, then recycled. | Reuse/Recycle |

Transport

| Method | Type | 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. |

Maintenance & Use

| Maintenance or Use | 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. | NA |

Disposal

| Method | Description |
|------------------------|--|
| Disassemble | Product can be disassembled to separate recyclable components |
| Recyclable - Partially | 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.