Rehrig Pacific Company
SINCE 1913

Proposal to:
Capitol Region Purchasing Council
ITB#761
Recycling Bins

DUE:
February 20, **2024 @ 9:00 AM**

Prepared by:
Stephen Mullis
Territory Manager
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February 20, 2024
Capitol Region Purchasing Council
ITB #761 Recycling Bins
241 Main Street, 4th Floor
Hartford, CT 06106

RE:Response to Request ITB# 761 Recycling Bins for Capitol Region Purchasing Council

To Whom It May Concern:

The following enclosures constitute the Rehrig Pacific Company's proposal to supply the Capitol Region Purchasing Council with our containers and services as requested in your ITB #761 Recycling Bins. We hope to have the good fortune of being awarded and starting our partnership with your organization..

Rehrig Pacific Company is an American owned and operated company that has been in business since 1913. For the past 30 years, Rehrig Pacific has grown to become the largest cart and bin manufacturer in North America with seven manufacturing facilities nationwide. By having the largest capacity in the industry, Rehrig Pacific has the ability to not only meet short timeframes, but also handle order quantities of any size and type. We also lead the industry by having the only in-house Assembly and Distribution team and by providing unique value added services utilizing our Vision program, which is a web based software that can be customized towards the specific needs and requirements of each of our customers. Additionally, Rehrig Pacific remains committed in ensuring that our customers receive the highest quality products and services in the industry while we continue to focus on green initiatives by utilizing recycled content in the manufacture of products and bringing our manufacturing locations closer to our customers to reduce freight costs and emissions. For your program, your containers will be manufactured in our nearby Erie, PA facility and our highly experienced in-house assembly and distribution team will deliver containers to the residents' homes within your desired time frame.

As our references illustrate, our cart has been put to the test in different municipalities throughout the United States with great success. Our customer list includes municipalities like the Town of Evan,NY Maiden,MA, and Brockton,MA. In addition to municipalities, several local and national haulers also trust Rehrig Pacific Company for the supply of their carts as well,like Republic Services, Waste Connections, GFL Environmental. We encourage you to contact these references to better determine our quality and level of service compared to other vendors.

We have made every attempt to include all the necessary information requested, however if you have any questions or need additional information, please do not hesitate to contact me. Your time and consideration are greatly appreciated.
Sincerely,

REHRIG PACIFIC COMPANY
Stephen Mullis

Stephen Mullis
Territory Manager
1738 West 20th St
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Rehrig Pacific Company
SINCE 1913

Statement of Qualifications

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About Rehrig Pacific Company

A family tradition of growth, service, and innovation began over 100 years ago by supplying wooden crates for the automotive industry and today has evolved into logistics optimization for over eleven different industries. Rehrig Pacific is a world-leading plastic container manufacturer, technology provider, and supply chain expert that believes in providing exceptional value and partnership for our customers.

Rehrig Pacific has over thirty years of experience in bringing value to the waste and recycling industry from providing recycling bins in the late 1980's to providing large roll out carts and asset management and service programs today. Below are just some of the qualifications Rehrig Pacific maintains that will positively impact your business and community objectives.

Qualifications Summary

- Financial Stability: Rehrig Pacific has been in business since 1913 and is financially able to serve our partners in short and long-term contracts. Our excellent credit rating has placed the company in a financial position to make investments needed for providing our customers the products, technologies, and services they need to meet their business goals and to support the long-term warranties and commitments we make for years to come.

Great Place To Work. Certified JUL 2019–JUL 2020 USA

- Our People: Rehrig Pacific is certified as a Great Place to Work in 2019 & 2020 - 2021. Additionally we were voted as the #1 place to work in the waste and recycling industry in 2013 by Waste and Recycling News based on feedback provided by our employees. This recognition highlights our commitment to our team and our dedication to serving our customers and the industry with the support of a nimble 100+ year-old family owned organization.

- Our Approach: Rehrig Pacific provides world class training for our organization that is built upon a foundation of understanding the industry pressures, our customers' business goals, and challenges they may have in achieving them. This training leads to true partnerships where everyone benefits. Rehrig's in house business development, design, and IT groups are focused on building what is needed for your business and the industry. In addition to providing our customers with the right solution, we have a strong foundation of excellent customer service and this is evident with our dedicated account specialist teams located throughout the entire country ready to exceed your expectations.

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Why Rehrig Pacific

DURABILITY

Rehrig Pacific carts are UV-stabilized, and designed for optimal compatibility and functionality with both semi- and fully automated lifter systems, including a wear strip to permanently protect the bottom of the cart from abrasion.

MANEUVERABILITY

The continuous one-piece handle provides a strong gripping area and the wide wheelbase makes maneuvering easy.

CUSTOMIZABLE DESIGN OPTIONS

Rehrig Pacific's carts feature customizable color options and lids, and containers of different colors.

RFID-ENABLED

Rehrig Pacific carts can be equipped with RFID tags for collecting and tracking customer account information. RFID tags help eliminate missed collections, unbilled services, increase recycling rates through participation verification, allow for targeted marketing to customers in specific zones based on data-driven variables, and increase overall operational efficiencies.

Each year, Rehrig Pacific uses over 60 million pounds of recycled post-consumer plastic that is diverted from the waste stream.

SUSTAINABILITY WITHOUT SACRIFICING QUALITY

It only makes sense that the carts we provide for the collection of trash and recyclables should be produced in an environmentally responsible manner without compromising durability, convenience, and quality.

Rehrig Pacific pioneered a previously impossible process to build their carts out of an unprecedented 40% post consumer recycled material, without sacrificing strength or curb appeal.

Rehrig Pacific also has a best-in-class R&D lab leading the way in figuring out what to build their carts out of next, from bulky rigid plastic like patio chairs and laundry hampers, to tough materials like ocean waste and discarded rope.

CART RECOVERY AND RECYCLING

The High-Density Polyethylene (HDPE) resin that Rehrig Pacific uses in its carts makes them 100% recyclable. This allows our cart manufacturer to create a closed loop system – reclaiming and recycling products at the end of life for reuse in the production of new products.

MANUFACTURING LOCATIONS

With seven manufacturing sites across the United States, Rehrig Pacific has a strategic national footprint that allows for timely production and delivery of new cart orders and lower freight costs.

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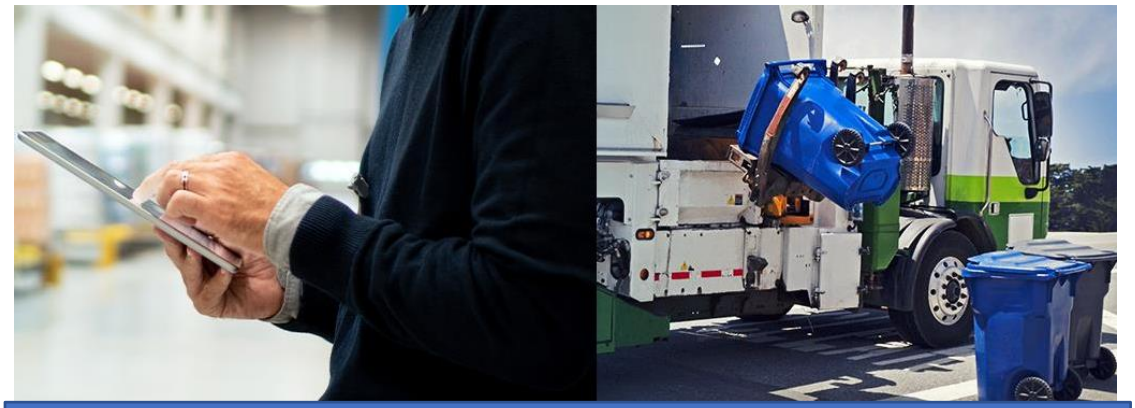
Waste and Recycling Industry Leader:



Rehrig Pacific began serving the Waste & Recycling Industry in 1987 with curbside recycling bins, and now is a leader in providing the highest quality recycling bins, roll-out carts, plastic commercial containers, services, and technology. Our industry unique simple to implement solutions handle the entire project from start to finish without putting additional stress on your operation. Rehrig Pacific manufactures the asset, delivers the asset to the end user, tracks this process for increased level of customer service, and provides ongoing asset management through technology and focused labor ultimately lowering the total cost ownership, enhancing revenue, and reducing - operating costs. Our leadership is evident in our innovative products and solutions, comprehensive warranty, the number of customers/volumes we supply, our partnerships with the largest municipal programs and waste haulers in North America, and our infrastructure that allows for us to meet the needs for a program of any size.

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Sustainable Initiatives and Leadership

For over a century, Rehrig Pacific Company has provided containers to various industries, including waste and recycling containers to an array of customers all over North America. Throughout our history, environmental awareness and sustainability have been cornerstones of our company and we strive to improve our efforts daily.

In the early 1970's, using new grades of recyclable resins and high-pressure injection molding, Rehrig Pacific Co. began to develop environmentally friendly products. Advances in technology and the demand for durable products have, over time, increased the need for robust collection containers that utilize the highest level of quality virgin and recycled resin. We manufacture our containers to last, ensuring that quality and length of time used is a part of our sustainable promise. We are also able to find the right solutions for our customers using a variety of recycled material to meet their needs, while keeping their branding intact.

Today, all Rehrig Pacific Company's waste and recycling products are 100% recyclable. In addition to our buy back program and reprocessing any of our own products, Rehrig Pacific uses nearly 60 MM pounds of recycled plastic coming from both post- industrial and post-consumer waste streams. Every Rehrig Pacific product made can be recycled into another Rehrig product at the end of its service. Eco-friendly products are not just good for the environment; they are good for business and an integral strategic part of how we operate.

We believe that it is important to bring high quality sustainable containers closer to our customers, which is why we have invested in seven production plants in North America and over 30 recycling centers. This translates into shorter freight lines, resulting in less carbon emissions, and decreased impact on the environment.

We take great pride in our efforts to create a "waste free environment," and our manufacturing production is a prime example of this initiative. Rehrig Pacific's Zero Waste Production Processes ensure that all scrap resin, packaging, and byproduct is reused in the manufacturing process. No aspect of our cart production is wasted; we even recirculate cooling water used in our molds and reclaim our hydraulic fluid. We believe that less waste increases efficiencies while decreasing cost, which our customers can take full advantage of.

Sustainability is at our core.

Rehrig Pacific is committed to sustainability while maintaining the highest quality standards available on the market today. For further information on our sustainability practices or for a plant tour to better showcase our abilities, please contact us directly.

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sustainability

Sustainable carts that roll with the punches.

Proven to withstand the rigors of today's collections systems, Rehrig Pacific's roll-out carts are not just super durable—they're built sustainably, too. All our carts can be made with 30% PCR (post-consumer resin), are 100% recyclable at the end of life, and save you money. Improved nest-ability reduces your capital cost while keeping your carbon footprint to a minimum. Roll out carts are shipped with the lids and catch bars installed, saving you valuable time.

Rehrig Pacific offers National Cooperative Purchasing through OMNIA Partners for municipalities and financing options through Rehrig's Financial Services. Contact your sales representative to learn more about doing business with Rehrig Pacific.

95 Gallon EnviroGuard Roll-Out Cart

65 Gallon EnviroGuard Roll-Out Cart

35 Gallon EnviroGuard Roll-Out Cart

Features and options:

- For semi-automated or automated collection of household refuse, recyclables and organic waste streams.
- Constructed of high-quality, resilient UV-stabilized HDPE resin.
- RFID integration available for use in asset and participation tracking programs.
- Quick release blow molded wheel or quiet tread wheel options available.

95 Gallon Fully Automated Bear Resistant Roll-Out Cart

65 Gallon Fully Automated Bear Resistant Roll-Out Cart

Truckload Quantities	18/20 Gallon	Bear Cart 65/95	ROC-35 MB/EG	ROC-65 NB/EG	ROC-95 NB/EG
Stack Size High	7	9/8	9/10	9/13	9/13
53' Trailer	875	432/232	1080/1260	648/936	486/702

1. Dimensions vary depending on wheel and lid options
2. ANSI Z245.30 - 2008
3. 20 gallon insert available

35 Gallon Organic EnviroGuard Roll-Out Cart

100 Liter EnviroGuard Roll-Out Cart

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This cart isn't just green on the outside

What do plastic lawn chairs, children's toys, and laundry hampers all have in common? They're all really difficult to recycle. With an industry total of 1.35 billion pounds of bulky rigid plastics recovered annually, Rehrig Pacific has pioneered innovative ways to incorporate these plastics back into its products.

Rehrig's Envirocore Cart contains 10% bulky rigid recycled plastics, and up to 40% post-consumer recycled content. The Envirocore Cart is not just sustainable–it's customizable, too. With the ability to choose a custom cart color, you'll be able to seamlessly retain your brand aesthetic.

Benefits and Features

- Made with 40% PCR including 10% Bulky Rigid plastics
- Available in 95, 65, & 35 Gallon sizes
- Available in multiple colors
- 10 year warranty
- 100% Recyclable at the end of life

Up to 40%
Post Consumer Recyclate

Including 10%
Curbside Bulky Rigid

Specs	35 Gallon	65 Gallon	95 Gallon
External Dimensions	18.5in W x 24.1in D	26.5in W x 27in D	29.2in W x 33.3in D
External Height with Lid	37.5 in	43.6 in	43.5 in
Assembled Weight	22.0 - LBS	29.75 - LBS	—
53' Trailer Quantity	1,260	936	702

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Key Sustainability Capabilities

Co-injection- Advanced Technology:

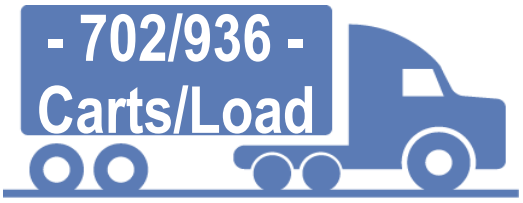
- Co-Injection process provides a unique advantage by combining both virgin and recycled plastics
- Achieving sustainable goals by utilizing up to 40% recycled content in both the core and shell plastics
- Maintaining brand aesthetic with superior durability cleaner surface finish

Curbside Bulky Rigid

- Bulky rigid plastic is especially difficult to recycle. With more than 1.35 billion pounds recovered annually,
- Rehrig Pacific waste and recycling carts can be comprised of 10% recycled bulky rigid plastic.

Industry Leading Truck Loads

- Improved nest-ability reduces your capital cost and keeps your carbon footprint to a minimum
- When stacked, barcodes and serial numbers remain visible, improving work order efficiency and reducing operating costs for customer delivery and repair.
- Estimated CO2 emissions reduction of 6.6M lbs. (86% less by comparison) through Rehrig Pacific's unique manufacturing footprint as compared to other cart suppliers



sustainability

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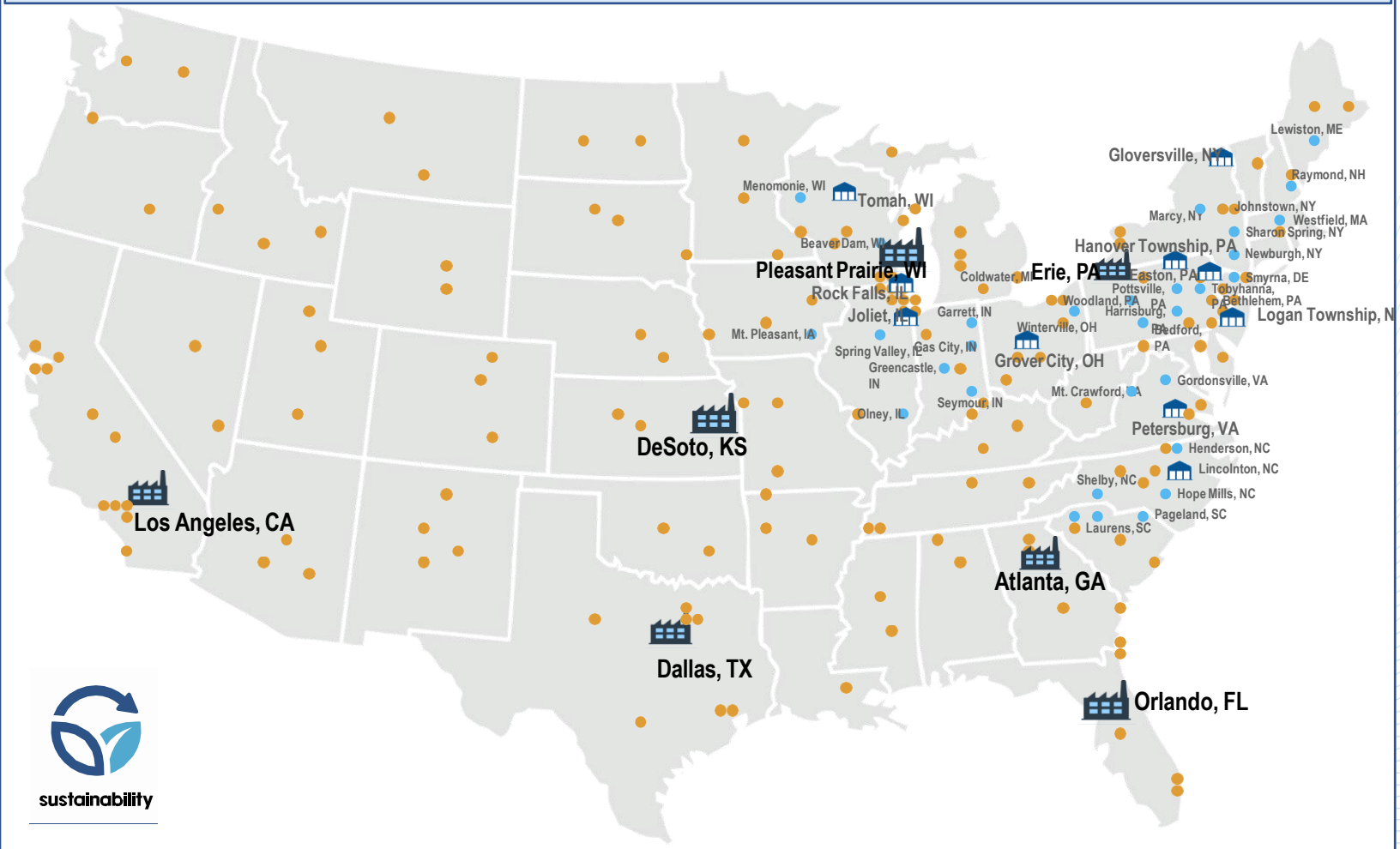
Shorter Freight Lanes

CO2 emissions from vehicles is one of the largest contributors to greenhouse gas emissions. 63% of all of the freight in North America is delivered by truck, making the vast network of freight lines that cross our country an undeniable factor. Long before long-distance, emissions-free trucks were even a concept, we knew we had to come up with solutions to mitigate the harm that delivering goods from our factories to our customers created.

Our seven manufacturing facilities are strategically located throughout the U.S., decreasing the distance it takes to get our products to our customers and reducing the amount of carbon emissions released into the atmosphere. Shorter freight lanes also reduces transportation costs. In addition, our efficient design of carts means that we can fit more product per truckload, reducing the number of required shipments for the same overall amount of product. If you thought that was a big enough improvement for us, then you're probably not very familiar with Rehrig Pacific. When stacked, the barcodes on our carts remain clearly visible, improving work order efficiency and decreasing operating costs for repairs and deliveries.

Shorter distances go a long way. We estimate a carbon emissions reduction of 6.6 million lbs. (an 86% reduction by comparison) when compared to other cart suppliers. Bottom line is, our unique manufacturing footprint, innovation and efficiency in serving every corner of the country means less emissions, less complexity, and a lot more value for our customers—with shorter freight lines, we can get our customers what they need, exactly when they need it.



sustainability

Key Personnel

Kemrey Kidd – National Sales Manager – East Coast
Contact Info: Phone:202-731-3937 Email: kkidd@rehrig.com

Kemrey is Rehrig Pacific's National Sales Manager for the eastern half of the US. She began her career with Rehrig in Feb 2013 as a Sales Representative for the New England territories. She has held multiple leadership roles at Rehrig, including Senior Sales Executive and Regional Sales Manager. In her current roll, she manages a large portfolio of business related to the waste /recycling industries and has successfully increased profits and market share through the implementation of technology and building partnerships with customers.

- 23+ years Solid Waste Industry Sales Experience
- 11+ years Rehrig Pacific Company experience
- B.A, Sc. Graphic Communications and Applied Sciences from Clemson University
- NWRA SWANA Chapter member
- Waste 360 2023 40 under 40 award winner

Stephen Mullis – Territory Manager, Environmental Sales
Contact Info: Phone: (781) 264-5251 Email:smullis@rehrig.com

Stephen joined Rehrig Pacific this year and has over 7 years of sales experience. In his current role as a Territory Sales Manager, he is responsible for developing tailored solutions to optimize custom waste and recycling collection, handling, and hauling for our customers throughout New England and New York. Prior to joining the Rehrig family, Stephen worked in the construction market with Beacon Building Products as an Outside Sales Representative.

- 1+ year Rehrig Pacific Company experience
- 7+ years Plymouth State University
- B.A, Business Administration, Marketing from Plymouth State University, New Hampshire
- New England territory native

Charla Burns- Account Specialist, Environmental Sales
Contact Info: Phone:(814) 462-5247 Email:cburns@rehrig.com

Charla will be the part/service/warranty service contact for this project. She is also the secondary point of contact for customers regarding project details and will assist the sales representative with the project's timely completion. She is the ideal account specialist based on her experience and expertise in managing highly complex accounts and leading post sales efforts to ensure customer needs are met.

- 10+ years of customer service experience
- 3+ years Rehrig Pacific Company experience
- B.A. General Management, Penn State, Behrend

Fully Integrated Services

Offering fully integrated solutions is the key to our customers satisfaction. Providing best in class customer service, along with all the necessary steps and services our partners need and expect. With a large the variety of carts available, sustainable resin and branding options, we also offer assembly and delivery services and tracking software to keep watch over carts, providing ways to optimize and improve routes for our customers.

TECHNOLOGY

SERVICES

CARTS AND CONTAINERS

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SERVICES & TECHNOLOGY

Vision™ provides actionable business intelligence for mobile and non-moblile assets through customized reports and dashboards:

Work Order and Inventory Management
Route optimization and turn-by-turn directions
Automated inventory tracking and system-wide visibility of containers

Asset Service Verfication Module Including RFID and GPS
Everyday audit of containers

Industrial Container Tracking Module
Route optimization
Inventory tracking
System-wide visibility of containers
Maintenance history analysis

Consumer Engagement
Customer educational programs
QR/NFC technology to engage customers

Roll-Out Cart Features:
Sealed catch bar.
Improved durability.

Sustainable Offerings

Up to 40% Post Consumer Recyclate
Including 10% Curbside Bulky Rigid or Oceancore Material

On street services:

In-house assembly & distribution
RFID retrofitting services
Route auditing
Yard cleanups
Cart reclamation
Container maintenance &
Mobile washing programs

Bear Roll-Out Cart Sizes Available
35, 65, and 95 Gallon

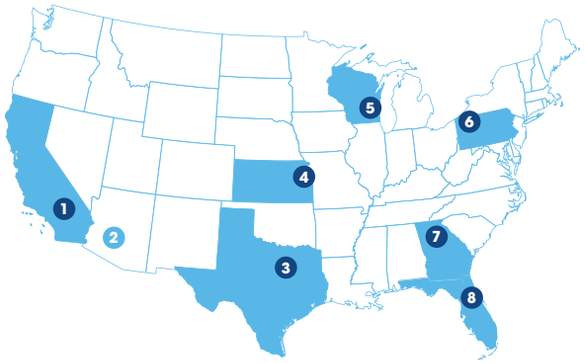
Roll-Out Cart Sizes Available
35, 65, and 95 Gallon
80, 65, and 100 Liter Organics

Commercial Container Sizes Available
1, 2, 3, and 4 Yard Front Load
2, 3 Yard Rear Load

Locations

Cart Producing Plant
- Regional manufacturing
- Shorter freight lanes equals smaller carbon footprint

1. Los Angeles, CA
2. Buckeye, AZ
3. Dallas, TX
4. De Soto, KS
5. Pleasant Prairie, WI
6. Erie, PA
7. Atlanta, GA
8. Orlando, FL



Service Offerings

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Services

Rehrig Pacific's services division can take a load off your shoulders and give you better results. From assembly and distribution to container management and maintenance, we've got your back.

Assembly & Distribution:

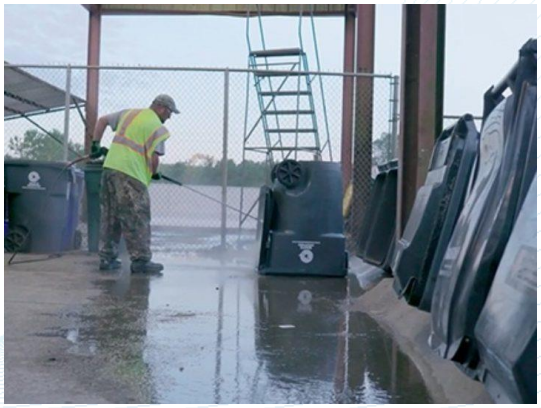
After your rollout carts are manufactured and shipped by Rehrig Pacific, our Assembly and Distribution (A&D) teams load the carts onto our trailers and deliver them to individual customers within your municipality or service area. We have successfully managed A&D projects with up to half a million carts. Using our Vision® software, each cart is scanned to verify delivery accuracy for maximum efficiency and customer satisfaction.

Container Management:

Rehrig Pacific manages the delivery, pickup, repair and maintenance of all roll-out carts in your service area. Based on a monthly fee per cart, we can handle requests from residential customers regarding new pickup service, end of service, additional carts, cart size change out, lost, or stolen carts and cart repair. Our local field service team responds and completes all work in a timely and courteous approach based on your established customer protocols.

Other Services:

- Reclaim/ Cart Removal
- RFID Retrofitting Services
- Route Auditing
- Yard Cleanups
- Mailers
- Mobile Washing Programs



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Assembly & Distribution

Address Accuracy

Advanced address scrubbing backed by APIs validates addresses.

Eliminate Errors

Improved error checking in the application ensures accuracy of deliveries.

Real-Time Updates

Handheld devices instantaneously transfer data, providing customers with immediate feedback.

Incomplete Deliveries

Pictures are taken at addresses where carts aren't able to be delivered.

Visibility

Customers gain visibility on the cart assembly and distribution process via the online dashboard and portal.

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Vision Software Offerings

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Vision Technology

Vision® is a dynamic, easy-to-use software suite that includes applications to track your assets in real time using RFID and GPS. Vision® provides a multi-level visibility that will help reduce operating costs, increase sales and preserve capital. Vision® easily integrates with existing technology and can scale to meet any level of operation.

service verification

Service Verification ensures the work is getting done, alerts in real time saves time, increase efficiencies and reduces driver redundancies.

work order +inventory

Work Order + Inventory enables real time confirmation of container movements without the need for manual reporting. Can provide visibility into container stock, inventory, eliminating the need for manual checks.

industrial container tracking

Industrial Container Tracking. lets you know where your containers are at all times, through an easy-to-use interface that loads onto your existing iOS or Android devices. Reducing the need for manual drivers and physical confirmation.

vision℠

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The eyes and ears of waste industry. Now in the palm of your hand.

work order +inventory

Work Order + Inventory is a software that enables real time confirmation of container movements without the need for manual reporting. As part of the Vision℠ platform, Work Order + Inventory can provide visibility into container stock, inventory, and a lot more.

Boost Revenue Potential

- See accurate snapshot of availability
- Improve customer response
- Ensure continuous inventory availability

Improve Capital Utilization

- Minimize capital loss
- Reduce expenditures
- Improve cash flow through inventory controls
- Mitigate revenue loss

Minimize Operating Costs

- Minimize administrative and labor costs
- Gain visibilty into delivery functions and improve efficiency
- Reduce excess disposal costs
- Optimize routing

vision™

Rehrig Pacific Company

we see physics.

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Manage waste without wasting resources.

service verification

Service Verification helps you make sure the work is getting done. Are your drivers picking up on-schedule? Was the bin left in the correct place at the correct time? As a part of the Vision℠ platform, Service Verification lets you know what's going on in real time to save yourself some real headaches.

Boost Revenue Potential

- Target nonpaying accounts for additional revenue
- Observe and bill overflows, extra pickups, etc.
- Identify opportunities to access fees and surcharges

Minimize Operating Costs

- Minimize container loss
- Improve collection efficiency
- Mitigate false missed pickup claims
- Comply with municipal contract specifications
- Reduce installation and support costs

Enhance Customer Experience

- Improve response and resolution time
- Eliminate hardware/software integration issues
- Streamline implementation and servicing

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Rehrig Pacific Company

we see physics.

See every point from your view.

industrial container tracking

Stop wasting time and resources on lost, misplaced, or mixed-up containers. Industrial Container Tracking from Rehrig Pacific makes sure you can always keep an eye on some of your most valuable assets. As part of the Vision℠ platform, Industrial Container Tracking lets you know where your containers are at all times, through an easy-to-use interface that loads onto your existing iOS or Android devices.

Boost Revenue Potential

- Improve driver productivity
- Increase asset utilization
- Improve revenue generation
- Accelerate return on investment

Minimize Operating Costs

- Reduce capital spend
- Reclaim lost assets
- Eliminate duplicated inventory

Enhance Customer Experience

- Ensure service to all sites
- Reduce service errors
- Strengthen assurance of supply

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Exceptions

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February 20, 2024
Capitol Region Purchasing Council
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241 Main Street, 4th Floor
Hartford, CT 06106

Exceptions to Specifications

Materials: - Wheels will be rubberized on a 10" (for 64/65 gallon) or 12" (for 95/96 gallon) injection molded rim.

Rehrig Pacific Company carts are equipped with 10" Blow Molded Snap On (BMSO) wheels.
We are confident they will be suitable to needs of your members. Having rolled out millions of carts across North America in variety of settings, we've found that they are preferred within the industry for their quick assembly few components to assemble. See Assembly Instructions page in Production Specifications section of submission for more information.

Materials: - The retainer bar shall be a minimum of 1" diameter galvanized free-floating steel bar. There shall be no other metal attachments, framing, nuts or bolts, excluding the metal axle and the wheel's inner lock pin.

The Rehrig Pacific axle is ¾" in diameter. This axle is a solid steel zinc plated axle for high load bearing capabilities and excellent corrosion resistance. Our axle is mounted in the cart body through yokes molded into the cart body, providing permanently lubricated bearing surfaces. We feel that the size and construction of our axle is more than adequate for this application. Our container design has been proven successful in a large number of municipal cart programs throughout the country and should be more than sufficient for your refuse collection program.

Temp. Range: -40 degrees (F) to 130 degrees (f). Include independent laboratory freezer drop test results.
Our carts meet and exceed all industry related ANSI standards. However, the Safety and Test requirements you are requesting are not applicable to the waste and recycling collection industry and therefore have not been conducted. We respectfully request that CRPC accept carts that meet the normal ANSI standards. See ANSI reports section of submission for more information.

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Warranty

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Rehrig Pacific Company - Roll Out Cart Limited Warranty

Rehrig Pacific Company warrants that its standard Roll Out Cart products when purchased new will conform to all applicable manufacturer's specifications, will be free from defects in material and workmanship, and will be fit for normal use in accordance to the terms below from the original date of purchase. The coverage under this warranty includes performance of the cart body, lid, lid attachments, wheels, axles, locks, and all hardware included with the purchased containers, and expressly excludes the normal wear and tear of graphics (including lid graphics). It is the responsibility of the buyer to ensure the product is fit for their specific application, and that proper education and training has been provided throughout their collection process. This warranty applies only to the first purchaser of the covered product.

10 Years	Body, lid and attachments, wheels, axle, grab bar
12 Months	Locks and any other lid restraint devices and associated hardware

Warranty Coverage Exclusions:

(1) use under circumstances exceeding specifications, (2) buyer or user abuse, improper operation, misapplication, induced contamination, overloading, misuse, negligence, vandalism, or use inconsistent with ANSI and manufacturer specifications, (3) damage or failure as a result of incompatible, improperly installed, improperly operated, or defective tipping, lifting, or dumping mechanisms, (4) physical damage caused by wildlife, (5) damage due to handling practice inconsistencies as a result of undefined handling standards and/or training programs, (6) unauthorized or improper repair or alteration, including performance enhancements and/or modifications, (7) damage or failure as a result of neglect in inspections and maintenance in accordance with any published schedules provided by Rehrig Pacific Company, (8) damage or failure caused by natural calamities such as fire, storm, ice, hail, flooding, or high winds, (9) lock or opening issues caused by excessive ice, debris, or residue.

Administration of Warranty:

Any covered component that fails during the applicable warranty period will (at Rehrig Pacific Company's discretion) be repaired or replaced and shipped to Buyer via standard ground shipping at no cost to Buyer provided that:

(1) Buyer notifies Rehrig Pacific Company in writing no later than the end of the applicable warranty period of the claimed defect;

(2) Buyer agrees that Rehrig Pacific Company shall have the right to (i) inspect and test the allegedly defective product(s) and (ii) require Buyer to provide supporting documentation and maintenance records substantiating Buyer's compliance with ANSI and truck manufacturer specifications relating to use of the product(s) in connection with Buyer's other machinery, such as lifting, tipping or dumping mechanisms on trucks;

(3) Determination of the cause of the alleged failure or defect shall be made in the good faith judgment of Rehrig Pacific Company;

(4) Buyer agrees to return to Rehrig Pacific Company any defective product(s) being claimed. In order to receive a replacement part or warranty credit, Rehrig Pacific Company MUST receive the defective products / material. Buyer agrees to empty, disassemble and stack containers for shipment. Rehrig Pacific Company shall be responsible for arranging shipping and associated freight charges.

(5) Warranty claims and any escalation thereof shall be made on Rehrig Pacific's standard electronic warranty form, on which Buyer shall include the serial number of the defective product(s), and the location at which Buyer took delivery of the product(s) at the time of initial purchase. Any warranty claim made by any means other than Rehrig Pacific's standard electronic warranty form shall be rejected.

(6) Any replaced cart or component will assume the remainder of the applicable warranty from the product's original purchase date.

(7) Buyer is responsible for the removal and redeployment and/or reinstallation of any warrantied carts or components.

(8) Buyer is responsible for verifying that Buyer is the "first purchaser" of the defective product(s). "First purchaser" means the legal entity that actually purchased the defective product(s) either directly or through a financing institution that purchased the product(s) solely for Buyer's benefit. Any event or series of events in which the principal owners of Buyer as of the date of purchase collectively no longer own greater than percent (50%) of the beneficial, economic or voting interests of Buyer, or any transfer of Buyer's assets pursuant to which ownership of the product(s) transfers to a third party, shall nullify this warranty.

Buyer may contact their Rehrig Pacific Company Customer Service Representative with questions regarding their Roll Out Cart product and this warranty.

Rehrig Pacific Company will not be liable for any incidental or consequential damages, claims of loss of business, loss of profits, loss of income or any other losses or expense. Rehrig Pacific Company's liability shall not, under any circumstances, exceed the purchase price of the allegedly defective product. This warranty is in lieu of, and Rehrig Pacific Company expressly disclaims, any other warranty, express or implied, including any implied warranty of merchantability or fitness for a particular purpose.

Rehrig Pacific Company reserves the right to deny any claim under this warranty if Buyer is not current on all outstanding invoices.

Many jurisdictions have codes and regulations governing sales, construction, installation, and/or use of products for certain purposes, which may vary from those in neighboring areas. Rehrig Pacific Company cannot guarantee compliance with such codes or regulations and cannot be responsible for how the Roll Out Cart product is deployed or used. Before purchase and use of a Roll Out Cart product, review the product applications, and all applicable national and local codes and regulations, and be sure that the product, installation, and use will comply with them.

Product Specifications

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Innovative Design
Advanced Product Integrity

Internal Lift Skirt
Improves durability and allows for improved freight efficiency by 44%. (702 Carts)

Hinge Flex Channel
Improves durability and deformation in automated lifting

Stress Channel
Reduces stress in the back area by 51%

Catch Bar
This bar is fully captured with no holes in the cart body.
AKA – Leak Proof

Foot Kick
Larger foot kick to accommodate work boots

Carbon Grip
Reduces slipping of automated arms by 20% wet or dry.

Axle box
New design is 80% stronger than before.

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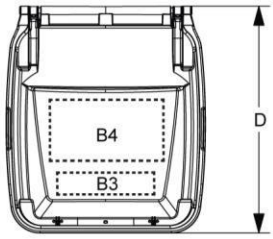
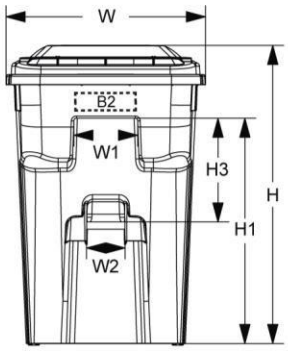
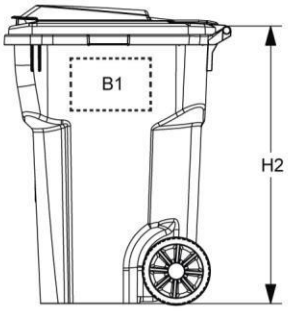
95 Gallon EnviroGuard Roll Out Cart Specifications

Meets and/or exceeds all ANSI Standards for Type B & G containers





Specifications	IN/LB	CM/KG
Capacity (Gallons / Liters)	95 Gal	360 L
Overall Depth (D)	33.3	84.5
Overall Width (W)	29.2	74.1
Overall Height With Lid (H)	43.5	110.4
Lift Skirt Height (H1)	33	83.8
Upper Lift Skirt Width (W1)	9.5	24.1
Catch Bar Width (W2)	5.6	14.2
Handle Height (H2)	40.6	103.1
Distance Between Skirt & Catch Bar (H3)	15.2	38.7
Resin Weight	32	14.5
Assembled Weight	35	15.8
Gripping Diameter	28.1	71.4
Nest Increment	5.7	14.4
Carts Per Stack	13	
53' Trailer Quantity	702	



Decoration Areas	WIDTH (IN)	HEIGHT (IN)
Side Brand - Hot Stamp (B1)	11.5	7.5
Barcode & Serial Number (B2)	9.75	1.25
Lid Hot Stamp Brand (B3)	11	2.25
4 color In Mold Label or Hot Stamp (B4)	8	12

Specifications

- Manufacturing Process - Injection Molding
- Material - High-density polyethylene resin (HDPE) Manufacturer: Exxon or Dow Type: HD-6605 Recycled Content of up to 30% PCR Color pigment and ultraviolet inhibitor compounded at 1.5% - 2% by weight
- Wall Thickness - Cart Nominal: 0.165" Cart Critical Wear Points: 0.19" (Drag Rail and Axle Box) Lid Nominal: 0.140"
- Branding - Hot stamp process permanently imprints logos on cart side body and lid. IML capabilities for the lid
- Visible Bar Code/Serial Number when stacked
- Lid Opening - 270 degrees
- Lid Assembly - Carts are shipped with the lids already attached
- Catch Bar - 1" corrosion resistant zinc plated steel allows favorable nesting ratios. Fully enclosed and doesn't penetrate the cart body.
- Axle - High strength, low alloy steel, 3/4" x 22.625", zinc plated or powder coated equivalent for corrosion protection
- Wheels - 10" Wheels, snap-on with 1.4" integrated spacers. Treaded wheel options are available and subject to additional cost and lead time.
- Handle - Handle attachments are integrally molded part of the container body with a gripping area of 16". Clearance between the cart body and the inside edge of the handle has been maximized to provide optimum control of a fully loaded cart
- Lift System Compatibility - American semi-automated bar-locking lifters and fully automated arm lifters.
- ANSI load rating = 332.5 lbs. (3.5 lbs. Per gallon)
- RFID Enabled Option
- 10 Year warranty
- Decoration Areas: Brands are subject to one time set up fees and IML pricing is dependent on size and the number of colors.

vision

Corporate Headquarte
4010 East 26th St., Los Angeles, CA 90058
(323) 262-5145

Web: www.rehrigpacific.com

Rehrig Pacific Company
SINCE 1913

A FAMILY TRADITION OF GROWTH, SERVICE AND INNOVATION

95 EG REV NC

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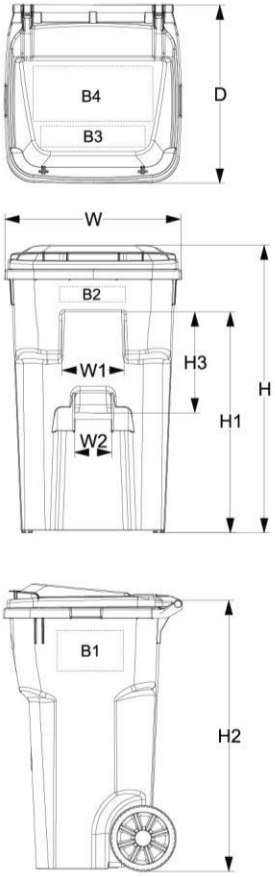
65 Gallon EnviroGuard Roll Out Cart Specifications

Meets and/or exceeds all ANSI Standards for Type B & G containers



Specifications	IN/LB	CM/KG
Capacity (Gallons/Liters)	65 Gal	246 L
Overall Depth (D)	27.0	68.58
Overall Width (W)	26.5	67.31
Overall Height with Lid (H)	43.6	110.74
Lift Skirt Height (H1)	33.25	84.46
Upper Lift Skirt Width (W1)	9.375	23.81
Catch Bar Width (W2)	5.715	14.52
Handle Height (H2)	40.65	103.25
Distance Between Skirt & Catch Bar (H3)	15.25	38.74
Resin Weight	25.5	11.5
Assembled Weight	30.1	13.65
Gripping Diameter	23.15	58.80
Nest Increment	5.7	14.4
Carts Per Stack 13	13	
53' Trailer Quantity	936	

Decoration Areas	WIDTH (IN)	HEIGHT (IN)
Side Brand - Hot Stamp (B1)	11.5	7.5
Barcode & Serial Number (B2)	9.75	1.25
Lid Hot Stamp Brand (B3)	11.0	2.25
4 color In Mold Label or Hot Stamp (B4)	12.0	8.0

Specifications

- Manufacturing Process - Injection Molding
- Material - High-density polyethylene resin (HDPE) Manufacturer: Exxon or Dow Type: HD-6605 Recycled Content of up to 30% PCR Color pigment and ultraviolet inhibitor compounded at 1.5% - 2% by weight
- Wall Thickness - Cart Nominal: 0.155" Cart Critical Wear Points: 0.19" (Drag Rail and Axle Box) Lid Nominal: 0.140"
- Branding - Hot stamp process permanently imprints logos on cart side body and lid. IML capabilities for the lid
- Visible Bar Code/Serial Number when stacked
- Lid Opening - 270 degrees
- Lid Assembly - Carts are shipped with the lids already attached
- Catch Bar - 1" corrosion resistant zinc plated steel allows favorable nesting ratios. Fully enclosed and doesn't penetrate the cart body.
- Axle - High strength, low alloy steel, 3/4" x 22.625", zinc plated or powder coated equivalent for corrosion protection
- Wheels - 10" Wheels, snap-on with 1.4" integrated spacers. Treaded wheel options are available and subject to additional cost and lead time.
- Handle - Handle attachments are integrally molded part of the container body with a gripping area of 16". Clearance between the cart body and the inside edge of the handle has been maximized to provide optimum control of a fully loaded cart
- Lift System Compatibility - American semi-automated bar-locking lifters and fully automated arm lifters.
- ANSI load rating = 227.5 lbs. (3.5 lbs. Per gallon)
- RFID Enabled Option
- 10 Year warranty
- Decoration Areas: Brands are subject to one time set up fees and IML pricing is dependent on size and the number of colors.

Corporate Headquarters
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Cart Features and Customized Options

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Product RFID & Bar Code Integration

Rehrig Pacific Company developed the process to integrate RFID and Bar Code technology into our rollout containers over 7 years ago and our experience in providing RFID enabled containers is unmatched in the industry. Rehrig has produced over 7 million RFID enabled containers for over 200 customers throughout the United States and Canada. All seven of Rehrig Pacific cart container producing plants have the necessary equipment to provide our customers with sophisticated and tested RFID & Bar Code Enabled containers for your collection program.

Rehrig Pacific RFID & Bar Code Enabled Containers – Benefits

- ✓ Our UHF tags are protected in the container body and are not exposed to the outside elements such as weather or the rigorous environments posed by our industry
- ✓ We program the RFID tags in house, which allows for flexibility in customizing an RFID value that will have significance to our customers
- ✓ RFID Tags and Bar Codes are associated and tested at our facilities before the containers ship
    - This ensures that the technology functions properly for your program
    - The association between the bar code/serial number and RFID tag provides a visual identifier for the container
- ✓ The production data collected from our manufacturing facility is stored on our (RVISION) server, which provides a foundation for tracking these container assets in the future
- ✓ The use of bar codes in addition to RFID tags ensures accuracy during the delivery process and decreases the cost of ongoing management in the future

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Graphics and Color Options

Graphic Arts Capabilities

Rehrig Pacific Company takes great pride in their ability to provide graphic material and other pertinent information on their automated roll out carts. With over (39) years of experience, Rehrig Pacific Company employs state-of-the-art equipment to insure legibility and clarity.

The first component begins with camera-ready artwork. Rehrig Pacific Company works with very capable vendors that can take an artistic rendition of a logo all the way to an actual digital file, which results in very clean and crisp artwork. From this point, the vendor turns the artwork into a “brand plate”. Basically, it is a mirror image of the artwork transformed onto a silicone pad capable of withstanding heat up to 500 degrees F. This silicone pad, with a metal backing, is the brand plate.

The second component is the brand tape. The tape is used between the silicone pad and the product being branded, to transfer the logo, in a color of choice, to the product. The tape used is of very high quality to insure color stability and legibility to withstand the extreme temperature variances in various parts of the country.

The third component is the hot-stamping or branding machine. Rehrig Pacific Company uses sophisticated hot-stamping equipment to transfer the artwork from the silicone pad to the roll out cart. This equipment, with its varied adjustment capabilities, allows precise amounts of air pressure, temperature and dwells to provide consistency from brand to brand.

The last component involves Rehrig Pacific Company’s quality assurance. After each individual hot-stamp, an employee inspects the product looking for any defects. If any are found, the product is rejected and adjustments are made. This is ongoing and continuous to insure consistent quality.

In Mold Labeling (IML) Branding Option

We also offer In-Mold Labeling. IML is becoming very popular for recycling carts because it allows a customer to brand detailed pictures and graphics onto the container lid that show acceptable recyclable items and constantly educates the resident throughout the life of the program. If you would like additional information for this option, please contact your sales representative.

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Rehrig Pacific
Roll-Out Carts Color Chart

These charts are for visual estimation only. The colors will vary somewhat due to screen type, printer and PMS sample used. These charts are meant as a guide and are not necessarily an exact depiction of the color.

Additional colors are available but may increase lead time and cost. Please contact a member of your sales team with any questions or to request plastic color chip samples.

Standard colors

Pepsi Blue: 250131
PMS: Reflex Blue C

Navy Blue: 249885
PMS: 281 C

Cocoa Brown: 464032
PMS: 4625 C

Forest Green: 251424
PMS: 447 C

Kelly Green: 251459
PMS: 3425 C

Grasshopper Green: 251441
PMS: 2265C

ROC Electric Lime Green: 251248
PMS: 375C

Black: 249990
PMS: Black C

Grey: 251555
PMS: Cool Grey 11 C

Charcoal Grey: 251491
PMS: 432 C

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95EG ANSI REPORT

Assembly Instructions

Lids: Containers are shipped with the lids completely attached and assembled. However when the need to attach a lid does arise, it will be very easy to accomplish. To assemble the lid, place the lid on top of the container, lining up the two (2) extended pieces of plastic from the lid into the handle area. Then place the hinge pins into the side holes on each side of the handle area making sure the hinge pins pass through the extended piece of plastic from the lid. Finally, push the hinge pins into place using a fair amount of pressure with either your hand or rubber mallet.

Nestable Catch Bar: Carts are shipped with Nestable Catch Bar pre-installed. However when the need arises, simply push metal bar to snap in.

Axle and Wheels: Our containers are shipped in stacks of (9) high with the bottom cart of each stack fully assembled (lids, axles and wheels). All other containers have the axles and wheels with integrated spacers conveniently placed in the bottom of each individual container. To assemble the axle assembly, first slide the axle through all four holes in the axle housing until there is an equal amount of axle space extending beyond the end of the axle housing. Finally, place the wheel onto the axle until it "snaps" firmly into the groove on the axle. It's that easy!

The average wheel assembly time utilizing our integrated spacer snap on wheel is 8 to 10 seconds!

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Lid Design

The Rehrig Pacific Company's lid performance can be attributed to the following design features:

- Our lids are molded from the same material as our containers. The lid design is of such configuration that it will not warp, bend, slump or distort to such an extent that it no longer fits flush on the container properly.

- The lid was designed to fit the container's body air tight, eliminating intrusion from wind, rain and vermin. The body's raised edge aligns the lid, ensuring the container complies with "insect free ordinances" and prevents intrusion of rainwater, rodents, flies, etc. The ¾ inch raised edge prevents the lid from opening in high winds.

- The unique continuous lid handle design allows the resident to easily pick up the lid with one hand.

- The lid hinge design allows the lid to freely open and close with little effort. The lid attachment is a columnar extension of the lid, which greatly reduces the stress at the lid's attachment points. This feature effectively eliminates deformation and breakage commonly seen in other molding processes.

- The lid is crowned to allow for water runoff.

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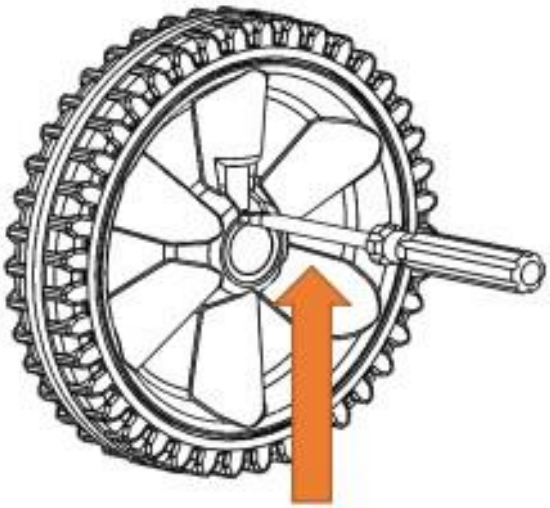
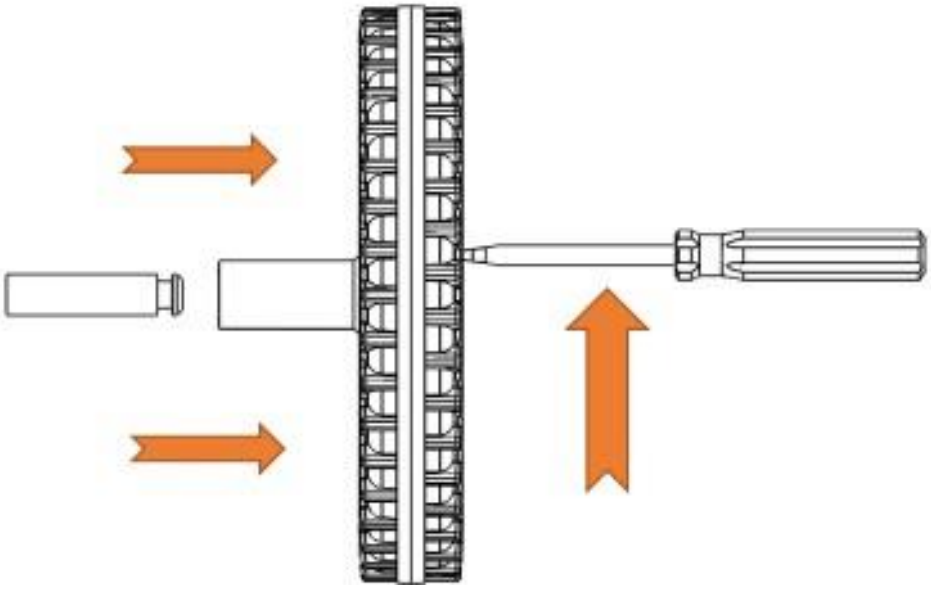
Poly Flex Wheel Removal Instructions

1. Insert a straight blade screwdriver into the slot below the head of the stainless steel pin.



2. While applying pressure to the pin, rotate the screwdriver toward the center of the wheel to release the pin from engagement.

3. Remove wheel from axle while maintaining pressure against pin.



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Rollout Cart & Bin Standard Component Price List

Custom Colored or Branded Lids: (Inclusive of Lid Pins)	Manufacturer:	Part Number	Per Unit Sell Price Excluding Freight	Minimum Quantity
35 Gallon Lids	Rehrig Pacific Company	ROC-35 Lid Custom	$18.00	100
65 Gallon Lids	Rehrig Pacific Company	ROC-65 Lid Custom	$19.00	100
95 Gallon Lids	Rehrig Pacific Company	ROC-95 Lid Custom	$20.00	100
18 Gallon Lids	Rehrig Pacific Company	ROC-18 Lid Custom	$6.00	100
25/32 Gallon Round Bin Lids	Rehrig Pacific Company	ROC-25/32 Lid Custom	$6.00	100
Black Lids: (Inclusive of Lid Pins)			Per Unit Sell Price Excluding Freight	Minimum Quantity
35 Gallon Lids	Rehrig Pacific Company	ROC-35 Lid Black	$17.00	100
65 Gallon Lids	Rehrig Pacific Company	ROC-65 Lid Black	$18.00	100
95 Gallon Lids	Rehrig Pacific Company	ROC-95 Lid Black	$19.00	100
18 Gallon Lids	Rehrig Pacific Company	ROC-18 Lid Black	$5.00	100
25/32 Gallon Round Bin Lids	Rehrig Pacific Company	ROC-25/32 Lid Black	$5.00	100
Lid Options:			Per Unit Sell Price Excluding Freight	Minimum Quantity
Aerated/Perimeter Lid Vents	Rehrig Pacific Company	ROC Lid Vent	Add $5.00 to price of lid	150
Newpaper Slot	Rehrig Pacific Company	ROC News Slot	Add $5.00 to price of lid	150
Round Hole	Rehrig Pacific Company	ROC Round Hole	Add $5.00 to price of lid	150
Domed Lids (fits on 95G Cart)	Rehrig Pacific Company	ROC Domed Lid	$80.00	150
BMSO Wheels:			Per Unit Sell Price Excluding Freight	Minimum Quantity
8" Wheels for 35 G. Only	Rehrig Pacific Company	ROC-8" BWheel	$6.00	50
10" Wheels	Rehrig Pacific Company	ROC-10" Bwheel	$6.00	50
12" Wheels	Rehrig Pacific Company	ROC-12" BWheel	$6.00	50
Treaded Wheels:			Per Unit Sell Price Excluding Freight	Minimum Quantity
8" Wheels for 35G Only	Rehrig Pacific Company	ROC-8" RTWheel	$10.00	50
10" Wheels	Rehrig Pacific Company	ROC-10" RTWheel	$10.00	50
12" Wheels	Rehrig Pacific Company	ROC-12" RTWheel	$10.00	50
Additional Parts:			Per Unit Sell Price Excluding Freight	Minimum Quantity
Axles/All Sizes	Rehrig Pacific Company	ROC-Axle	$6.00	25
Metal Catch Bars	Rehrig Pacific Company	ROC-Metal CB	$4.00	25
Lid Pins	Rehrig Pacific Company	ROC-Lid Pin	$1.00	100
Bar Code Sticker	Rehrig Pacific Company	ROC-Bar Code Stk	Refer to Tech PM	100
RFID Enabled Bar Code Sticker	Rehrig Pacific Company	ROC-RFID Bar Code Stk	Refer to Tech PM	100
In-Mold Label Fees:			Per Unit Sell Price Excluding Freight	Minimum Quantity
In-Mold Label 3" x 13"	Rehrig Pacific Company	In-Mold Label 3"x 13"	$2.00	Full Truck Load
In-Mold Label 8" x 12"	Rehrig Pacific Company	In-Mold Label 8"x 12"	$2.00	Full Truck Load
In-Mold Label 9.5" x 14.5"	Rehrig Pacific Company	In-Mold Label 9.5"x 14.5"	$2.00	Full Truck Load
In-Mold Label 3" x 13"	Rehrig Pacific Company	In-Mold Label 3"x 13"	$3.50	Less Than Truckload
In-Mold Label 8" x 12"	Rehrig Pacific Company	In-Mold Label 8"x 12"	$3.50	Less Than Truckload
In-Mold Label 9.5" x 14.5"	Rehrig Pacific Company	In-Mold Label 9.5"x 14.5"	$3.50	Less Than Truckload
Brand Plate Fees:			Per Unit Sell Price Excluding Freight	Minimum Quantity
65/95G Lid Plate	Rehrig Pacific Company	ROC Lid Plate-65/95	$400.00	1
32/35G Lid Plate	Rehrig Pacific Company	ROC Lid Plate-32/35	$400.00	1
65/95G Body Plate	Rehrig Pacific Company	ROC Body Plate 65/95	$700.00	1
32/35G Body Plate/18G/14G	Rehrig Pacific Company	ROC Body Plate 32, 35, 18, 14	$400.00	1
Custom Options:			Per Unit Sell Price Excluding Freight	Minimum Quantity
Round Side Vent	Rehrig Pacific Company	ROC-R Side Vent	$6.00	112
Lock Options for 95G & 65G Cart:			**Per Unit Sell Price Excluding Freight**	Minimum Quantity
(Gravity Lock)	Rehrig Pacific Company	Gravity Lock	$36.00	10 (Standalone) 112 (When Purchased w/ROC)
(Internal Lock) - Manual or Keyed	Rehrig Pacific Company	Internal Lock	$17.00	10 (Standalone) 112 (When Purchased w/ROC)
Lid Hasp Latch (no lock)	Rehrig Pacific Company	Lid Hasp	$4.00	10 (Standalone) 112 (When Purchased w/ROC)
Custom Options for 35G Cart:			**Per Unit Sell Price Excluding Freight**	Minimum Quantity
35EG - (Gravity Lock)	Rehrig Pacific Company	Automated Disc Lock	$36.00	10 (Standalone) 112 (When Purchased w/ROC)
35EG - (Manual Lock)	Rehrig Pacific Company	Manual Disc Lock	$10.00	10 (Standalone) 112 (When Purchased w/ROC)

All Above Suggested Pricing DOES NOT Include Freight Charges

Material Specifications

© 2020 Rehrig Pacific Company

Material

Plastic Material

Rehrig Pacific Company uses only the highest grade HDPE especially formulated to meet the demands of refuse and recycling bin and cart applications. We currently purchase our resin from DOW Plastics & Exxon Mobil. The DOW material used in the manufacturing of the Rehrig Pacific carts and bins is DMDB-7905 NT 7 and the Exxon material is HD-6605, both materials are a narrow molecular weight copolymer that is designed for a wide range of injection molding applications. The materials provide excellent impact strength, stress crack resistance and process ability. These materials are ideally suited for articles requiring rugged physical performance in cold temperature environments, such as refuse and recycling carts and bins. If you would like to learn more about these materials please reference the Materials Safety Data Sheets (MSDS) attached.

Ultraviolet Stabilization

Rehrig Pacific Company utilizes an H.A.L.S. (Hindered Amine Light Stabilizer) ultraviolet stabilizer (U.V.) package, which is considered a superior U.V. stabilizer package. This master-batch (or concentrate) contains maximum light stable color pigments that have the highest rating possible to prevent fading. The master-batch also contains ultraviolet inhibitors similar to or better than the Chemisorb 944 and thermal stabilizers in final levels to ensure minimal degradation in the field. At Rehrig Pacific we introduce our H.A.L.S. ultraviolet package into our rollout carts and bins at a 1.5%- 2.0% let down ratio by total resin weight of the container. In contrast to “screener” U.V. stabilizers, the H.A.L.S. package protects the plastic resin at the chemical level. The package is designed to seek damaged or broken polymer chains at the chemical level and repair and protect the polymer chains from U.V. rays, thus maintaining the physical material properties of the plastic resin and container. Other U.V. stabilizers act as “screeners”, similar to suntan lotion, in which the stabilizer attempts to screen the plastic and container from U.V. rays. Unfortunately, moisture can wash off “screeners”, leaving the container exposed to harmful U.V. rays.

Color deterioration is controlled by the quality and type of pigment, separate from the deterioration of physical properties. U.V. rays interact with the pigment and can modify the pigment, depending on the amount and intensity of the U.V. rays and the quality of the pigment. Certain color pigments are more difficult to control especially variations of the color red and bright fluorescent colors.

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Hot-Melt Compounding Certification

Rehrig Pacific Company blends high density polyethylene with UV-stabilized colorant using the hot-melt compounding process for the production of our recycling bins and 35, 65, and 95 gallon Huskylite® containers. All materials are in a molted state when injected into the mold in order to ensure uniform distribution of these materials throughout the container.

Address of manufacturing facility:
1738 West 20th Street, Erie, PA 16502
Model & Serial # of Extruding Equipment: KM3200-55000MX 2007 – Serial #61008826

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Statement of Recycle Ability

Rehrig Pacific Company certifies that all material used to manufacture our 35, 65, and 95-gallon containers are 100% recyclable, including plastic resin and steel. When the timing is right, we can assist you in order to close the loop on recycling.

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June 3, 2020

To whom it may concern:

This letter is to certify that The Dow Chemical Company supplies 100% prime HDPE resin (product numbers DMDB-7950 and 06448N) made to our production specifications.

The formulation of both products includes appropriate levels of both Primary and Secondary Antioxidants.

DMDB-7950 and 06448N are used by Rehrig Pacific Company in the manufacture of roll-out carts.

If you have any further questions, please to not hesitate to contact me.

Regards,

James Walley

Sr. Account Executive
Dow – Packaging and Specialty Plastics
6216 E. Pacific Coast Hwy. #227
Long Beach, CA 90803 USA
Phone: (562) 986-7925
Mobile: (562) 547-5435 E-mail: jrwalley@dow.com

Seek Together

TECHMER PM
POLYMER MODIFIERS

Intertek

May 27, 2020

To Whom It May Concern:

Techmer PM, LLC is a world class manufacturer of colorants and outdoor stabilizers and we certify that we supply Rehrig Pacific Company with masterbatch for their Roll Out Carts. This masterbatch (or concentrate) contains maximum light stable color pigments that have the highest rating possible to prevent fading. The masterbatch also contains ultraviolet light protection and thermal stabilizers to ensure minimal degradation in the field.

If you have any questions or concerns, please feel free to contact us.

Sincerely,

Greg Smith
Techmer PM, LLC / Technical Service Representative
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Plastics News Best Places to Work 2014, 2016, 2017, 2019

References

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References – Large Municipal Waste Collection Programs

As a leading provider of waste and recycling containers, service and technology solutions, our company provides products and services for municipalities of all sizes and budgets.
Listed below is a small sample list of governments that have put our products to the test.
We encourage you to contact these references to better determine our quality and level of service compared to other vendors.

Project Name: City of Toronto
Project Owner: City of Toronto
Contact Person: Kevin Vibert: Kevin.Vibert@toronto.ca / 416.397.0203
Scope of Work: 450,000 100L organics containers were Assembled & Delivered to each home and assigned to each home using sophisticated barcode & RFID technology with real time visibility. Additionally, ~450,000 of the old containers were removed.
Project Year: 2017

Project Name: City of Brockton, MA
Project Owner: City of Brockton, MA
Contact Person: Ernie Bethoney: ebethoney@cobma.us / 508.962.9175
Scope of Work: 26,000 each of trash and recycling carts were Assembled & Delivered to each home and assigned to each home using sophisticated barcode & RFID technology with real time visibility.
Project Year: 2018

Project Name: Malden, MA
Project Owner: City of Malden
Contact Person: Ron Cochran: rcochran@CITYOFMALDEN.ORG / 781.570.9139
Scope of Work: 16,700 35 gallon trash carts and 16,700 35 gallon recycle carts were Assembled & Delivered to each home and assigned to each home using sophisticated barcode & RFID technology with real time visibility.
Project Year: 2021

Project Name: Town of Evans, NY
Project Owner: Town of Evans, NY
Contact Person: Mary Holl: mholl@townofevans.org / 716.217.3529
Scope of Work: 6,200 95-gallon trash carts were Assembled & Delivered to each home and assigned to each home using sophisticated barcode & RFID technology with real time visibility.
Project Year: 2023

95EG ANSI Report

Testing performed by:

South East Testing & Engineering

III-rd Party Independent Package Testing Laboratory
2870 North Berkeley Lake Road, Suite 2, Duluth, GA 30096, (678) 886 4864, setelab.com

ARTICLE SUBMITTED BY:	Derick Foster, Rehrig Pacific Company, dfoster@rehrigpacific.com
TEST DATE :	February 1 thru March 3, 2016 and September 5 thru 15, 2016, final report issued September 28, 2016;
TEST NUMBER:	SETE 6E4
TEST CONDITIONS:	55 to 65 F, 65 to 70 % RH in first round, 85 to 90 F, 65 to 70 % RH in second round
TESTED ITEM:	95 EG ROC Overall Dimensions: Width (Left to Right) = 28.61", Depth (Front to Back) = 33.33", Height = 39.13" Tare Weight: 32 lbs
PURPOSE OF TEST:	To qualify the described item to Safety Requirements of American National Standard for Equipment Technology and Operations for Wastes and Recyclable Materials
TEST EQUIPMENT:	5 degree Inclined Ramp, Outer Tank, Cylindric Load, Pull Scale, Metric Measuring Tape, Calibrated Weights, Calibrated Beakers
PRE-TEST INSPECTION:	Cart was inspected by laboratory personnel for cracks and dents prior to testing and found to be in pristine clean condition prior to beginning of test.
POST-TEST INSPECTION:	Item was found in good condition.
CONCLUSION:	Item is adequately structured to meet the safety requirements referenced above.
SUPPORTING DOCUMENTS:	8 individual reports (following below) and photos (in subsequent appendices) for each test of the sequence.

Southeast Testing and Engineering holds an ISTA Certificate # ST 2385.
We are calibrated annually by Applied Technical Services of Georgia.
Address: 2870 N. Berkeley Lake Road, Suite 2, Duluth, GA Phone: 678.886.4864
Test Performed By: Charles Radev

I have performed this test in accordance with good laboratory practices.
I have over 20 years of paper and package testing experience in the US

For the accuracy of this test:

Charles A. Radev

TEST 1: VOLUMETRIC LOADING CAPACITY

DATE: February 10, 2016
SUBJECT: Plastic Refuse Container
PRODUCT IDENTIFICATION: Rehrig 95 EG ROC

TEST DESCRIPTION: To determine the volume of a container

MINIMUM PERFORMANCE STANDARD: The volumetric loading capacity of the container should be measured according to ANSI Z245.30 (paragraph 7.2.4.2.1 and Appendix A).

TEST PROCEDURE:

1. The volume of the ROC is measured using the tank (immersion) method.
2. The empty ROC is placed inside a tank with sufficient capacity to receive the container to be tested. The container must be level (that is, not inclined).
3. Simultaneously fill the tank and the container with water at a standard temperature (60 F).
4. Measure the volume of water inside the container to an accuracy of ±2 percent of the measured capacity of the cart.
5. Repeat the capacity method.
6. The total volume is to be within tolerances on capacity according to product standard.

TEST RESULTS:

The ROC has a capacity of 95 gallons. Manufacturer can determine the difference between design and real physical capacity based on these findings.

SUMMARY: The cart volume is 95 gallons capacity.

Appendix 1: Test setup photos.

TEST 2: SLOPE STABILITY

TEST DESCRIPTION: This test checks the static stability of an empty and loaded Plastic Refuse Container on a defined slope (5 degrees to the horizontal).

DATE: September 7, 2016
SUBJECT: Plastic Refuse Container
PRODUCT IDENTIFICATION: Rehrig 95 EG ROC

MINIMUM PERFORMANCE STANDARD: ANSI Z245.30 (paragraph 7.2.4.2.3 and Appendix B) requires that the ROC must stand, without tipping or moving, in three different orientations on a defined slope.

TEST PROCEDURE:

1. Prepare a ramp with a slope of 5 degrees. The ramp must be of sufficient size that a cart can be moved onto the cart with no portion of the cart overhanging the edges of the ramp.
2. There is to be no wind.
3. Move an empty cart onto the ramp and orient the cart with the front of the cart facing up the ramp. Note any tipping or movement. Turn the cart so that the front of the cart is facing sideways on the ramp. Note any tipping or movement. Turn the cart so that the front of the cart is facing down the ramp. Note any tipping or movement.
4. Repeat step two with the cart loaded to the standard loading as specified in the ANSI standard, paragraph 7.2.4.2.2 (maximum rated/marked load, non-hydroscopic material either loose or in 5 kilogram bags, occupying at least 70% of the capacity of the ROC).
   The rated load for this ROC is 332.5 lbs.

TEST RESULTS:

	Orientation	Result
Empty	Front facing upward	Stable
	Front facing sideways (right)	Stable
	Front facing sideways (left)	Stable
	Front facing downward	Stable
Filled (with 332.5 lbs)	Front facing upward	Stable
	Front facing sideways (right)	Stable
	Front facing sideways (left)	Stable
	Front facing downward	Stable

SUMMARY: The ROC passed the ANSI Z245.30 standards since non-movement in three orientations is met.

Appendix 2: Test setup photos.

TEST 3: CENTER OF BALANCE POSITION

TEST DESCRIPTION: To determine the height of the handle of a two-wheeled ROC at the center-of-balance position. This height affects the ease of operation of the cart.

DATE: September 7, 2015

SUBJECT: Plastic Refuse Container
PRODUCT IDENTIFICATION: Rehrig 95 EG ROC

MINIMUM PERFORMANCE STANDARD: According to the ANSI standard Z245.30 (paragraph 7.2.4.2.6 and Appendix F) when in the center-of-balance position, the height is to be between 29 and 40 inches.

TEST PROCEDURE:

1. The ROC is loaded with the standard load of 332.5 lbs (ANSI standard, paragraph 7.2.4.2.2).
2. The test to be conducted on a hard, flat surface.
3. Block the wheels so that the cart will not roll.
4. Tip the cart slowly, rotating the cart on the wheels, to the center balance position. This position is determined as the position where the cart has a tendency to remain in a balanced (neutral) position, not tipping forward or backward.
5. When in the center balance position, place blocks under the container to maintain in balanced position.
6. Measure the distance vertically from the ground plane to the center line of the handle of the ROC. The accuracy of measurement is to be ±0.25 inches.
7. Repeat steps 4, 5 and 6 and then average the results for the three determinations.

TEST RESULTS:

Average height = 29.83 inches (with 332.5 pounds load)
Test 1 = 30.25”
Test 2 = 29.75”
Test 3 = 29.50”

SUMMARY: The ROC passed the ANSI Z245.30 standard.

Appendix 3: Test setup photos.

TEST 4: FORCE TO TIP

TEST DESCRIPTION: To measure the strength required to start container movement to the balance point and to ensure that the force is not greater than an established limit. This force relates to the ease of operation of the cart.

DATE: September 7, 2016
SUBJECT: Plastic Refuse Container
PRODUCT IDENTIFICATION: Rehrig 95 EG ROC

MINIMUM PERFORMANCE STANDARD: According to ANSI Z245.30 (paragraph 7.2.4.2.7 and Appendix F), the force must not exceed 120 pounds force.

TEST PROCEDURE:

1. The ROC is loaded with the standard load weight of 332.5 lbs (ANSI standard, paragraph 7.2.4.2.2).
2. The ground is to be level and with a smooth horizontal surface having less than a 1 degree slope.
3. The cart is to be blocked to prevent movement of the wheels.
4. A spring scale or other force-measuring device is attached to the handle of the cart. (The force-measuring device to have an accuracy of less than ±3%.) The cart is then tipped by pulling on the force-measuring device, until the cart is in the balanced position. The angle of pull, that is, the tipping force direction, is to be horizontal with less than ±2 degrees to all sides. (The position where the cart does not tend to move either forward or backward but remains in a balanced position.) The maximum force during the pull is noted.
5. Repeat step 4 so that three determinations are made. These results are averaged.
6. The test is to be conducted at room temperature.

TEST RESULTS:

Average force = 95.67 lbs (pull force)
Test 1 = 94.5 lbs
Test 2 = 95.5 lbs
Test 3 = 97.0 lbs

SUMMARY: The ROC passed the ANSI Z245.30 standard.

Appendix 4: Test setup photos.

TEST 5: LID TEST

TEST DESCRIPTION: To determine if a container lid will sustain the weight of an average child (approximately 80 pounds) without collapsing into the container.

DATE: February 9, 2016
SUBJECT: Plastic Refuse Container
PRODUCT IDENTIFICATION: Rehrig 95 EG ROC

MINIMUM PERFORMANCE STANDARD: According to ANSI Z245.30 (paragraph 7.2.4.2.8 and Appendix G), the lid of the cart must withstand a load of 80 pounds without collapsing or allowing the loading weight to fall into the container.

TEST PROCEDURE:

1. The ROC is placed on a smooth, level, horizontal surface.
2. A weight of 80 pounds with a surface area diameter round of 8 inches is placed on the lid of the cart.
3. The test is to be conducted at room temperature.

TEST RESULTS:

The lid did not collapse or excessively deflect during the test.

SUMMARY: The ROC passed the ANSI Z245.30 standard.

Appendix 5: Test setup photos.

TEST 6: DIMENSIONAL TESTING

TEST DESCRIPTION: To determine if the dimensions of the container are within the required dimensions of industry standards.

DATE: February, 2016
SUBJECT: Plastic Refuse Container
PRODUCT IDENTIFICATION: Rehrig 95 EG ROC

MINIMUM PERFORMANCE STANDARD: ANSI Z-245.60 establishes dimensional requirements for the cart. This ROC seems to have features for both type B and type G lifters, so dimensions are recorded for each.

TEST PROCEDURE:
1. The ROC is placed on a smooth, level, horizontal surface.
2. The dimensions of the cart are measured using a calibrated metric measuring tape.

TEST RESULTS:

Dimension (Type B)	Specification	Measurement
a	Min: 26.5", Max: 33.5"	26.563"
c	Min: 14.5", Max: 15.25"	15.252"
d	7"	N/A
e	Max: 2.5"	1.562"
f	Max: 1.25"	0.528"
g	Max: 1.5"	0.514"
h	Min: 1", Max: 2.25"	1.182"
j	Min: 0.5", Max: 1.5"	1.500"
k	Min: 0.5"	2.870"
l	Min: 8"	9.375"
m	Min: 5"	5.715"
n	Max: 0.5"	0.347"
p	Min: 1.875"	2.125"
l- (minus) m	Max: 6"	3.660"

Dimension (Type G)	Specification	Measurement
A	Min: 15"	15.000"
B	Min: 20", Max: 35"	28.125" by Figure 7 in ANSI,

SUMMARY: The ROC passes the ANSI Z245.60 standard.

Appendix 6: Photos of measurement equipment used.

TEST 7: DURABILITY DURING PULLING (CURB TEST)

TEST DESCRIPTION: This test determines whether the cart's handles, wheels, and axles will withstand the repeated pulling forces experienced during a normal 10-year useful life.

TEST DATE: September 12, 2016
SUBJECT: Plastic Refuse Container
PRODUCT IDENTIFICATION: Rehrig 95 EG ROC

MINIMUM PERFORMANCE STANDARD: ANSI standard Z245.30 (7.2.4.2.4 and Appendix C) requires that after testing the handles, wheels, axles, their attachments to the container, and the container itself must remain functional.

TEST PROCEDURE:

1. The ROC is loaded with the standard 332.5 lbs load (ANSI standard, paragraph 7.2.4.2.2) with the volume of material occupying at least 70% of the total capacity of the cart.
2. Using the cart's handles, the loaded cart is pulled off a curb. The curb height is to be 5.5 inches, with a curb radius of 1 inch.
3. ANSI specifies to then unload the cart, pull it back over the curb, and load it again before repeating the drop. This is to be repeated for 520 cycles. It becomes apparent that no practical method was available to remove the 15 kg bags comprising the load and replace them for each of the 520 cycles. Assuming that the unloaded pull up and over the curb is an insignificant contribution to cart damage compared to the loaded drop, the cart is not unloaded between cycles for this laboratory's version of the ANSI test. After a loaded drop off the curb (which is done by dragging the wheels and then bottom of cart over edge of curb), it is merely re-positioned at the top of the curb by pulling the cart and placing it on the curb (using a 4" wide sling strapped around the middle portion of handle on one side, and attached to the fork of a forklift on the other side). This is repeated for 520 cycles (drops).
5. The temperature is to be normal room temperature (75 F).

TEST RESULTS:

ROC passes 520 cycles of curb drops

SUMMARY: The cart passes the ANSI Z245.30 standard for minimum performance (520 cycles of functionality) at the maximum rated load of 332.5 pounds.

Appendix 7: Test setup and wheel photos.

TEST 8: SEMI AUTOMATED LIFECYCLE TEST (TIPPER TEST)

TEST DESCRIPTION: This test determines whether the cart's handles, wheels, and axles will withstand the repeated pulling and inertia forces experienced during a normal 10-year useful life on a semi-automatic hydraulic unloading device.

DATE OF TEST: September 8, 2016
SUBJECT: Plastic Refuse Container
PRODUCT IDENTIFICATION: Rehrig 95 EG ROC

MINIMUM PERFORMANCE STANDARD: ANSI type "B" lifecycle test standard requires that after 520 cycles of lifting and unloading with hydraulic machines suited to perform this cycle, the container itself must remain functional.
Inspection was performed at 520 cycles.
There were some minimal wear scratches and denting, but there was no damage that would prevent normal functionality of cart.

TEST PROCEDURE:

1. The cart is loaded with the standard load 332.5 lbs (ANSI type "B" lifecycle test standard) with the volume of material occupying at least 70% of the total capacity of the cart. Lid of cart is secured to body of cart so that no load can escape during cycling.
2. Using the cart's UAE, the loaded cart is picked up by "tipper" device, then lifted, inverted and "emptied", continuously cycle after cycle.
3. Test Parameters:

Temperature:	80 F
Cycle time:	approximately 6 seconds
Equipment used:	Rehrig Pacific hydraulic tipper machine
	Strapping device for securement of lid to cart
Outcome:	ROC still functioned as designed after 520 cycles
	Normal wear and tear visible around grab bar

TEST RESULTS:

ROC passes 520 cycles of lifting and unloading.

SUMMARY: The cart passes the ANSI Type "B" Lifecycle test standard for minimum performance (520 cycles of functionality) at the maximum rated load of 332.5 pounds.

Appendix 8: Test setup and "tipper" photos.

7.2.4.2.5 Loading and unloading (Type "G")
95 EG ROC

Approved By: Derick Foster	Revision: NC
Responsibility: Design and Sales teams	Effective: 10/26/16

DATE: 10/26/16
Test: ANSI Z245.30 – 2008 7.2.4.2.5 loading and unloading (cycle test)
PRODUCT: Rehrig Pacific Co. 95 Gallon EG ROC

1.0 **PURPOSE**: This testing is to validate the compatibility of the lifter and cart and to determine whether the cart's body, lid, handles, wheels, and axles will withstand the repeated gripping, lifting and inertia forces experienced during a normal 10-year useful life on a fully automatic unloading device.

2.0 MINIMUM PERFORMANCE STANDARD: ANSI Type "G" lifecycle test standard requires that after 520 cycles of lifting and unloading with hydraulic machines suited to perform this cycle, the container itself must remain functional. Inspection was performed at 520 cycles. Minimal wear scratches and denting is acceptable as long as no damage is present that would prevent normal functionality of cart.

3.0 <u>TEST PROCEDURE</u>

3.1. The cart is loaded with the standard load 335 lbs. (ANSI test standard) with the front facing the truck and lifting equipment.
3.2. Using the cart's body and shoulder area, the cart is picked up by the automated arm/device, then lifted, inverted and "emptied", continuously for 520 cycles.

4.0 <u>TESTING PARAMETERS</u>

4.1. Lifting equipment: Amrep model HX-450-ASL Automated Side Loader
4.2. Pressure setting for gripping: Open = 400 psi and Closed (grip) = 1200 psi
4.3. Average Cycle time: 8 seconds
4.4. Testing Environment: Outside at 88° F

5.0 **<u>TEST RESULTS:</u>**

5.1. EG passes 520 cycles of lifting and unloading.
5.2. Normal wear and tear visible around grip points and lid
5.3. Appendix 1: Photos of cart at the end of the testing

SUMMARY: The cart passes the ANSI Type "G" Lifecycle test standard for minimum performance (520 cycles of functionality) at the maximum rated load of 335 pounds.

65EG ANSI Report

Testing performed by:

South East Testing & Engineering

III-rd Party Independent Package Testing Laboratory
2870 North Berkeley Lake Road, Suite 2, Duluth, GA 30096, (678) 886 4864, setelab.com

ARTICLE SUBMITTED BY:	Derick Foster, Rehrig Pacific Company, dfoster@rehrigpacific.com
TEST DATE :	September 19-20, 2018, report issued September 20, 2018;
TEST NUMBERS:	SETE 8L1
TEST CONDITIONS:	78 F to 85 F and 65% to 70 % RH on September 20, 2018
TESTED ITEM:	65 EG ROC (tested September 19-th, 2018) Overall Dimensions: Width (Left to Right) = 26.46", Depth (Front to Back) = 26.98", Height = 43.625" Tare Weight: 30.1 lbs (13.65 kg) in first and second rounds.
PURPOSE OF TEST:	To qualify the described item to Safety Requirements of American National Standard for Equipment Technology and Operations for Wastes and Recyclable Materials
TEST EQUIPMENT:	5 degree Inclined Ramp, Outer Tank, Cylindric Load, Pull Scale, Metric Measuring Tape, Calibrated Weights, Calibrated Beakers
PRE-TEST INSPECTION:	Cart was inspected by laboratory personnel for cracks and dents prior to testing and found to be in pristine clean condition prior to beginning of test.
POST-TEST INSPECTION:	Item was found in good condition.
CONCLUSION:	Item is adequately structured to meet the safety requirements referenced above.
SUPPORTING DOCUMENTS:	8 individual reports (following below) and photos (in subsequent appendices) for each test of the sequence.

Southeast Testing and Engineering holds an ISTA Certificate # ST 2385.
We are calibrated annually by Applied Technical Services of Georgia.
Address: 2870 N. Berkeley Lake Road, Suite 2, Duluth, GA Phone: 678.886.4864
Test Performed By: Charles Radev

I have performed this test in accordance with good laboratory practices.
I have over 20 years of paper and package testing experience in the US

Charles A. Radev

TEST 1: VOLUMETRIC LOADING CAPACITY

DATE: September 19, 2018
SUBJECT: Plastic Refuse Container
PRODUCT IDENTIFICATION: Rehrig 65 EG ROC

TEST DESCRIPTION: To determine the volume of a container

MINIMUM PERFORMANCE STANDARD: The volumetric loading capacity of the container should be measured according to ANSI Z245.30 (paragraph 7.2.4.2.1 and Appendix A).

TEST PROCEDURE:

1. The volume of the ROC is measured using the tank (immersion) method.
2. The empty ROC is placed inside a tank with sufficient capacity to receive the container to be tested. The container must be level (that is, not inclined).
3. Simultaneously fill the tank and the container with water at a standard temperature (60 F).
4. Measure the volume of water inside the container to an accuracy of ±2 percent of the measured capacity of the cart.
5. Repeat the capacity method.
6. The total volume is to be within tolerances on capacity according to product standard.

TEST RESULTS:

The ROC has a capacity of 69.4 gallons. Manufacturer can determine the difference between design and real physical capacity based on these findings.

SUMMARY: The cart volume is 69.4 gallons capacity.

Appendix 1: Test setup photos.

TEST 2: SLOPE STABILITY

TEST DESCRIPTION: This test checks the static stability of an empty and loaded Plastic Refuse Container on a defined slope (5 degrees to the horizontal).

DATE: September 19, 2018
SUBJECT: Plastic Refuse Container
PRODUCT IDENTIFICATION: Rehrig 65 EG ROC

MINIMUM PERFORMANCE STANDARD: ANSI Z245.30 (paragraph 7.2.4.2.3 and Appendix B) requires that the ROC must stand, without tipping or moving, in three different orientations on a defined slope.

TEST PROCEDURE:

1. Prepare a ramp with a slope of 5 degrees. The ramp must be of sufficient size that a cart can be moved onto the cart with no portion of the cart overhanging the edges of the ramp.
2. There is to be no wind.
3. Move an empty cart onto the ramp and orient the cart with the front of the cart facing up the ramp. Note any tipping or movement. Turn the cart so that the front of the cart is facing sideways on the ramp. Note any tipping or movement. Turn the cart so that the front of the cart is facing down the ramp. Note any tipping or movement.
4. Repeat step two with the cart loaded to the standard loading as specified in the ANSI standard, paragraph 7.2.4.2.2 (maximum rated/marked load, non-hydroscopic material either loose or in 5 kilogram bags, occupying at least 70% of the capacity of the ROC).
   The rated load for this ROC is 257.5 lbs.

TEST RESULTS:

	Orientation	Result
Empty	Front facing upward	Stable
	Front facing sideways (right)	Stable
	Front facing sideways (left)	Stable
	Front facing downward	Stable
Filled (with 227.5 lbs)	Front facing upward	Stable
	Front facing sideways (right)	Stable
	Front facing sideways (left)	Stable
	Front facing downward	Stable

SUMMARY: The ROC passed the ANSI Z245.30 standards since non-movement in three orientations is met.

Appendix 2: Test setup photos.

TEST 3: CENTER OF BALANCE POSITION

TEST DESCRIPTION: To determine the height of the handle of a two-wheeled ROC at the center-of-balance position. This height affects the ease of operation of the cart.

DATE: September 19, 2018

SUBJECT: Plastic Refuse Container
PRODUCT IDENTIFICATION: Rehrig 65 EG ROC

MINIMUM PERFORMANCE STANDARD: According to the ANSI standard Z245.30 (paragraph 7.2.4.2.6 and Appendix F) when in the center-of-balance position, the height is to be between 29 and 40 inches.

TEST PROCEDURE:

1. The ROC is loaded with the standard load of 257.5 lbs (ANSI standard, paragraph 7.2.4.2.2).
2. The test to be conducted on a hard, flat surface.
3. Block the wheels so that the cart will not roll.
4. Tip the cart slowly, rotating the cart on the wheels, to the center balance position. This position is determined as the position where the cart has a tendency to remain in a balanced (neutral) position, not tipping forward or backward.
5. When in the center balance position, place blocks under the container to maintain in balanced position.
6. Measure the distance vertically from the ground plane to the center line of the handle of the ROC. The accuracy of measurement is to be ±0.25 inches.
7. Repeat steps 4, 5 and 6 and then average the results for the three determinations.

TEST RESULTS:

Average height = 34.458 inches (with 257.5 pounds load)
Test 1 = 34.875”
Test 2 = 34.375”
Test 3 = 34.125”

SUMMARY: The ROC passed the ANSI Z245.30 standard.

Appendix 3: Test setup photos.

TEST 4: FORCE TO TIP

TEST DESCRIPTION: To measure the strength required to start container movement to the balance point and to ensure that the force is not greater than an established limit. This force relates to the ease of operation of the cart.

DATE: September 19, 2018
SUBJECT: Plastic Refuse Container
PRODUCT IDENTIFICATION: Rehrig 65 EG ROC

MINIMUM PERFORMANCE STANDARD: According to ANSI Z245.30 (paragraph 7.2.4.2.7 and Appendix F), the force must not exceed 70 pounds force.

TEST PROCEDURE:

1. The ROC is loaded with the standard load weight of 257.5 lbs (ANSI standard, paragraph 7.2.4.2.2).
2. The ground is to be level and with a smooth horizontal surface having less than a 1 degree slope.
3. The cart is to be blocked to prevent movement of the wheels.
4. A spring scale or other force-measuring device is attached to the handle of the cart. (The force-measuring device to have an accuracy of less than ±3%.) The cart is then tipped by pulling on the force-measuring device, until the cart is in the balanced position. The angle of pull, that is, the tipping force direction, is to be horizontal with less than ±2 degrees to all sides. (The position where the cart does not tend to move either forward or backward but remains in a balanced position.) The maximum force during the pull is noted.
5. Repeat step 4 so that three determinations are made. These results are averaged.
6. The test is to be conducted at room temperature.

TEST RESULTS:

Average force = 62.1 lbs (pull force)
Test 1 = 62.0 lbs
Test 2 = 59.5 lbs
Test 3 = 63.0 lbs
Test 4 = 62.5 lbs
Test 5 = 63.5 lbs

SUMMARY: The ROC passed the ANSI Z245.30 standard.

Appendix 4: Test setup photos.

TEST 5: LID TEST

TEST DESCRIPTION: To determine if a container lid will sustain the weight of an average child (approximately 80 pounds) without collapsing into the container.

DATE: September 19, 2018
SUBJECT: Plastic Refuse Container
PRODUCT IDENTIFICATION: Rehrig 65 EG ROC

MINIMUM PERFORMANCE STANDARD: According to ANSI Z245.30 (paragraph 7.2.4.2.8 and Appendix G), the lid of the cart must withstand a load of 80 pounds without collapsing or allowing the loading weight to fall into the container.

TEST PROCEDURE:
1. The ROC is placed on a smooth, level, horizontal surface.
2. A weight of 80 pounds with a surface area diameter round of 8 inches is placed on the lid of the cart.
3. The test is to be conducted at room temperature.

TEST RESULTS:

The lid did not collapse or excessively deflect during the test.

SUMMARY: The ROC passed the ANSI Z245.30 standard.

Appendix 5: Test setup photos.

TEST 6: DIMENSIONAL TESTING

TEST DESCRIPTION: To determine if the dimensions of the container are within the required dimensions of industry standards.

DATE: September 20, 2018
SUBJECT: Plastic Refuse Container
PRODUCT IDENTIFICATION: Rehrig 65 EG ROC

MINIMUM PERFORMANCE STANDARD: ANSI Z-245.60 establishes dimensional requirements for the cart. This ROC seems to have features for both type B and type G lifters, so dimensions are recorded for each.

TEST PROCEDURE:
1. The ROC is placed on a smooth, level, horizontal surface.
2. The dimensions of the cart are measured using a calibrated metric measuring tape.

TEST RESULTS:

Dimension (Type B)	Specification	Measurement
a	Min: 26.5", Max: 33.5"	33.25"
c	Min: 14.5", Max: 15.25"	15.25"
d	7"	N/A
e	Max: 2.5"	1.23"
f	Max: 1.25"	1.01"
g	Max: 1.5"	1.01"
h	Min: 1", Max: 2.25"	1.43"
j	Min: 0.5", Max: 1.5"	1.500"
k	Min: 0.5"	3.27"
l	Min: 8"	9.375"
m	Min: 5"	5.715"
n	Max: 0.5"	0.437"
p	Min: 1.875"	2.125"
l- (minus) m	Max: 6"	3.660"

Dimension (Type G)	Specification	Measurement
A	Min: 15"	15.5"
B	Min: 20", Max: 35"	23.15" by Figure 7 in ANSI,

SUMMARY: The ROC passes the ANSI Z245.60 standard.

Appendix 6: Photos of measurement equipment used.

TEST 7: DURABILITY DURING PULLING (CURB TEST)

TEST DESCRIPTION: This test determines whether the cart's handles, wheels, and axles will withstand the repeated pulling forces experienced during a normal 10-year useful life.

TEST DATE: September 19-20, 2018
SUBJECT: Plastic Refuse Container
PRODUCT IDENTIFICATION: Rehrig 65 EG ROC

MINIMUM PERFORMANCE STANDARD: ANSI standard Z245.30 (7.2.4.2.4 and Appendix C) requires that after testing the handles, wheels, axles, their attachments to the container, and the container itself must remain functional.

TEST PROCEDURE:

1. The ROC is loaded with the standard 257.5 lbs load (ANSI standard, paragraph 7.2.4.2.2) with the volume of material occupying at least 70% of the total capacity of the cart.
2. Using the cart's handles, the loaded cart is pulled off a curb. The curb height is to be 5.5 inches, with a curb radius of 1 inch.
3. ANSI specifies to then unload the cart, pull it back over the curb, and load it again before repeating the drop. This is to be repeated for 520 cycles. It becomes apparent that no practical method was available to remove the 15 kg bags comprising the load and replace them for each of the 520 cycles. Assuming that the unloaded pull up and over the curb is an insignificant contribution to cart damage compared to the loaded drop, the cart is not unloaded between cycles for this laboratory's version of the ANSI test. After a loaded drop off the curb (which is done by dragging the wheels and then bottom of cart over edge of curb), it is merely re-positioned at the top of the curb by pulling the cart and placing it on the curb. This is repeated for 520 cycles (drops).
5. The temperature is to be normal room temperature (75 F).

TEST RESULTS:

ROC passes 520 cycles of curb drops

SUMMARY: The cart passes the ANSI Z245.30 standard for minimum performance (520 cycles of functionality) at the maximum rated load of 257.5 pounds.

Appendix 7: Test setup and wheel photos.

TEST 8: SEMI AUTOMATED LIFECYCLE TEST (TIPPER TEST)

TEST DESCRIPTION: This test determines whether the cart's handles, wheels, and axles will withstand the repeated pulling and inertia forces experienced during a normal 10-year useful life on a semi-automatic hydraulic unloading device.

DATE OF TEST: September 19, 2018
SUBJECT: Plastic Refuse Container
PRODUCT IDENTIFICATION: Rehrig 65 EG ROC

MINIMUM PERFORMANCE STANDARD: ANSI type "B" lifecycle test standard requires that after 520 cycles of lifting and unloading with hydraulic machines suited to perform this cycle, the container itself must remain functional.
Inspection was performed at 520 cycles.
There were some minimal wear scratches and denting, but there was no damage that would prevent normal functionality of cart.

TEST PROCEDURE:

1. The cart is loaded with the standard load 257.5 lbs (ANSI type "B" lifecycle test standard) with the volume of material occupying at least 70% of the total capacity of the cart. Lid of cart is secured to body of cart so that no load can escape during cycling.
2. Using the cart's UAE, the loaded cart is picked up by "tipper" device, then lifted, inverted and "emptied", continuously cycle after cycle.
3. Test Parameters:

Temperature:	82 F
Cycle time:	approximately 6 seconds
Equipment used:	Rehrig Pacific hydraulic tipper machine
	Strapping device for securement of lid to cart
Outcome:	ROC still functioned as designed after 520 cycles
	Normal wear and tear visible around grab bar

TEST RESULTS:

ROC passes 520 cycles of lifting and unloading.

SUMMARY: The cart passes the ANSI Type "B" Lifecycle test standard for minimum performance (520 cycles of functionality) at the maximum rated load of 257.5 pounds.

Appendix 8: Test setup and "tipper" photos.

ANSI TYPE "G" LIFECYCLE TEST FOR ROC CONTAINER(FULLY AUTOMATED)

TEST DESCRIPTION: This test determines whether the cart's handles, wheels, and axles will withstandthe repeated pulling and inertia forces experienced during a normal 10-year useful life on a fully automatic hydraulic unloading device.

TEST DATE: September 19, 2018
SUBJECT: Plastic Refuse Container
PRODUCT IDENTIFICATION: Rehrig 65 GallonEG Rollout Cart

MINIMUM PERFORMANCE STANDARD:ANSI type "G" lifecycle teststandard requires that after 520 cycles of lifting and unloading with hydraulic machines suited toperform this cycle, thecontainer itself must remain functional.Inspection was performed at 260 cycles and at 520 cycles. There were visible wear scratches and denting, but there was no damage that would prevent normalfunctionality of cart.

TEST PROCEDURE:
1. The cart is loaded to meet the ANSI max weight standard of 3.5 pounds per gallons with a total load weight of 227.5 lbs.with the volume of material occupying at least 70% of the total capacity of the cart.Load was made up of 10 lbs. sand bags and 50 lbs. bags of pebbled rocks.
2. Test Equipment: Heil Python Automated tipper arm
3. Test Environment: Outside Temperature 78 F.
4. Using the cart's body and shoulder area, the loaded cart is picked up by "tipper" device, then lifted, inverted and "emptied", continuously cycle after cycle. Cart is reloaded at beginning of each cycle.

OUTCOME (OBSERVATIONS):
520 cycle inspection:
• Normal wear and tear
• Rub marks on the body
• Scratch marks on the cart corners
• Slight distortion on upper skirt

TEST RESULTS:
The cart still functioned as designed after test.
ROC passes 520 cycles of lifting and unloading.

Proposal to:
Capitol Region Purchasing Council
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