



Revert Pb

Battery Recycling Program

1-800-543-8630, Ext 309

Revert Pb

C&D Technologies Battery Recycling Program

Revision 5.0

Overview



- To obtain a quote, the customer simply needs to fill out and submit the online Recycling Quote Form (RQF). Separate line items **MUST** be filled out for each battery type including the following information: Number of skids, number of battery type, item description, and total weight. Quote to be provided within 24 hrs. of receipt
- All batteries will be recycled in the United States in accordance with EPA regulations. A recycling certificate will be provided back to the customer once batteries are weighed and recycled at smelters' locations. C&D's preferred Third Party Logistics Provider (3PL), will handle all loads
- Flooded and Industrial batteries are the main acceptable batteries under this program. Absolyte, Steel Case, SLI and Motive used batteries will be determined on a case by case basis. Non-lead batteries are **Not** acceptable.
- Any non-approved material sent with load will be returned to customer at customer's expense or will result in a recalculation of credit if applicable. The following are some of the materials considered **NOT ACCEPTABLE**: Wheel weights, Spill cleanup materials (i.e. towels, cloths, absorbent, neutralizer, gloves, etc.), Styrofoam, etc.
- C&D will create bill of lading with customer's assistance to ensure transport and recycling certification compliance. C&D will fill this document out with the assistance of customer as needed.

Overview (cont'd)



- BCI guidelines are recommended to be used when preparing used Pb/Acid batteries for transport. If you have an alternative method for packaging, please detail within the Recycling Quote Form under “Special Requirements”. Otherwise, the minimum requirements are per DOT Regulation CFR Title 49
- All attachments to batteries must be removed prior to shipment (metal cases, racks, cables, etc.). Failing to do so may result in additional expenses to be charged to the customer
- Seals to secure load in trailer are mandatory to guarantee negotiated weights are delivered to smelter. Seal number must be written on bill of lading at time of pick up.
- Loads of less than 40,000 lbs. may involve additional logistics charges than full truckload quantities.
- Final weights and battery type will be determined by smelters. Recycling Certificates will reflect these values.

Battery Types: Acceptable vs. Unacceptable



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Acceptable:

- **Flooded Batteries (VLA: Vented Lead Acid typically found in UPS, Switchgear and Telecom applications):** Pb/acid Jars that are removed from steel case or racks.



- **Industrial Batteries (VRLA: Valve Regulated Lead Acid):** Non metal case Pb/acid batteries. Can be AGM (Absorbent Glass Mat) or Gel as well.



Unacceptable:

- **Non lead Batteries:** Chemistries containing Nickel Cadmium, Lithium, Hybrid, Alkaline, are **NOT** acceptable material .
- **SLI Batteries (Starting, Lighting, Ignition):** Typically a lead/acid battery used for starting motors and powering the lighting and ignition systems of automobiles

Battery Types



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Industrial Pb Acid Batteries Only



WARNING

"NOT ALL BATTERIES ARE ALIKE"

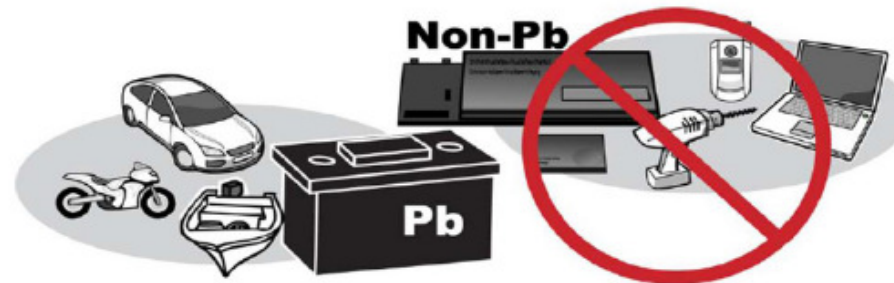
LEAD BATTERY RECYCLING SAFETY

DO NOT MIX NON-LEAD BATTERIES WITH LEAD BATTERIES FOR RECYCLING.

Non-lead batteries pose a fire/explosion hazard at lead battery recycling facilities. Lead and non-lead batteries are recycled at different factories.

LEAD BATTERIES

Lead batteries are used to start cars, trucks, motorcycles, boats and lawnmowers, and in many industrial applications including in forklift trucks and emergency and telecom backup power systems. All lead batteries are identified with either the word "LEAD" or the symbol "Pb."



NON-LEAD BATTERIES

Non-lead batteries are used in cameras, flashlights, laptops, cell phones, power tools, PDAs, camcorders, and in many other uses. They include and may be labeled as alkaline, nickel cadmium (Ni-Cd), nickel metal hydride (Ni-MH), nickel zinc and lithium ion (Li-ion) batteries. **DO NOT SEND NON-LEAD BATTERIES TO SECONDARY LEAD SMELTERS.**

Recommended Packaging Requirements



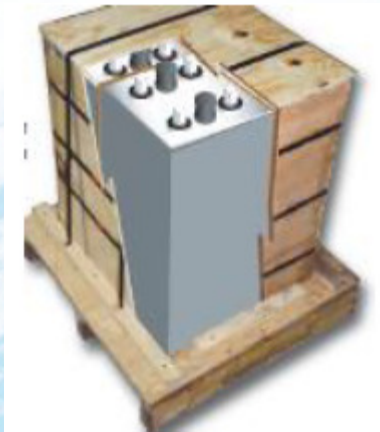
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Flooded Batteries (VLA)

Skid/Pallet Specifications

- Maximum skid/pallet size: 40" x 48" or 44" x 48"
- 5/8" minimal thickness
- Must contain 3 runners at minimum
- Must be durable enough to handle battery load
- Not to be double stacked during loading



Packaging Guidelines: Flooded

- All vent caps must be in place to prevent spillage
- Place cells on acceptable skid/pallet.
- Batteries must be upright and secured with wooden cleats on pallet
- Batteries must be banded with plastic banding with a minimum of 3 horizontal and 2 vertical bands
- Adequate reinforcement, such as plywood, must be placed on the top and sides of the batteries to prevent distortion, cutting into or shorting of batteries

Note: *If your current packaging practice deviates from recommendation please outline on request for quote form*

Please visit the BCI Website for full details of packaging stationary batteries :

<http://batteryCouncil.org/?Transportation>

CD TECHNOLOGIES
Power Solutions

Recommended Packaging Requirements



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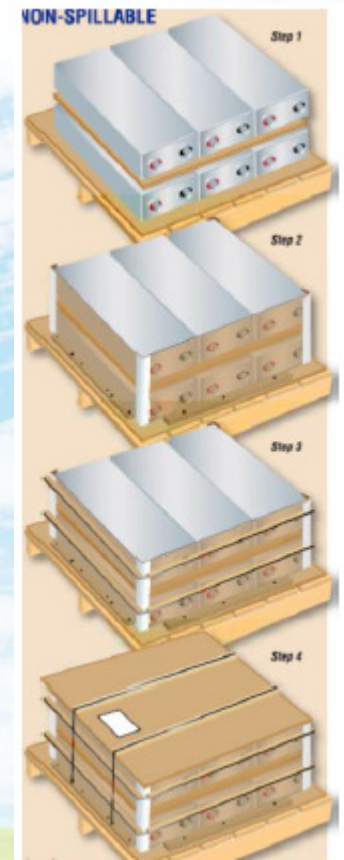
Industrial Batteries (VRLA)

Skid/Pallet Specifications

- Maximum skid/pallet size: 40" x 48" or 44" x 48"
- 5/8" minimal thickness
- Must contain 3 runners at minimum
- Must be durable enough to handle battery load
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Packaging Guidelines: Non Spillable

- Place cells on acceptable skid/pallet. Use Triwall (3 layer cardboard) or Waffleboard between layers
- Place 1/2" plywood layer on skid/pallet. Place first layer of batteries on top of plywood. Place batteries on their side to prevent them from falling over during transport. Place one layer of 5/8" Triwall or Waffleboard on top of first layer of batteries. Repeat process of stacking batteries and make sure to not exceed maximum skid/pallet weight. Place Triwall or Waffleboard around all sides of batteries
- Secure the batteries by nailing wooden cleats to the pallet on all sides so the Triwall is held tightly against the batteries and will remain vertical. Install cardboard corner supports.
- Install plastic banding horizontally around all battery layers. Place wooden strips under banding to provide support to cardboard
- Place 1/2" plywood on top and secure with two plastic bands running from front to back. Drill holes as close as possible to cleats and skid boards and run banding through holes to secure tightly.



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Recommended Packaging Requirements



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Wrapping/Stacking/Banding Best Practices

Wrapping/Stacking Instructions

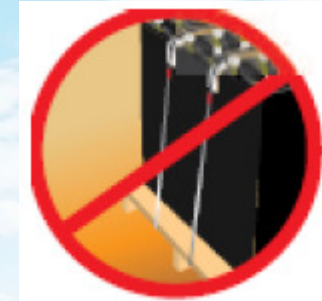


- Shrink wrap pallet at least 3 times to prevent batteries from shifting during transport
- Do not stack more than 3 layers
- Side terminal batteries must be stacked so the posts are facing away from each other and **NOT** facing towards the outside of the pallet. **Side terminals must never touch.**



Banding

- Do **NOT** run banding around the outside of the skid/pallet boards
- Prefer 3/4" polyester strapping, 2500 lb. break strength utilizing friction welds not clips
- Alternative: 3/4" polyester composite strapping, 2000 lb. break strength, utilizing buckle joint



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Logistics: Trailer Seal Process



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Auditable, Compliant Recycling Process

- C&D's 3PL will schedule the pick up with customer after the proposal on terms has been accepted by both parties.
- The Bill of Lading will be created for the customer by C&D Technologies.
- The Bill of Lading will be sent to the customer prior to the scheduled pick up date from C&D.
- C&D's 3PL will contract a carrier and require them to bring a seal upon pick up.
- When the carrier arrives to the pickup site, they will provide a seal to the customer.
- The customer is to write the seal number down on the Bill of Lading.
- When the driver arrives at the smelter, the smelter will receive the paperwork the driver hands them and notate if the seal was intact.
- If the seal is not intact, the smelter will immediately notify C&D. C&D will notify the customer and appropriate actions will be taking to resolve the issue.