



# Interagency Grizzly Bear Committee

## Bear-Resistant Products Testing Program

### 2022 Testing Season Protocol



*Photo courtesy of the Living with Wildlife Foundation and the Grizzly  
& Wolf Discovery Center*

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# Introduction

Increasing numbers of humans are encountering grizzly and black bears while living in or visiting areas inhabited by bears. In some cases, these encounters lead to conflicts between people and bears, which can end poorly for both species. One way to significantly reduce the likelihood of human-bear encounters is to ensure that bears do not become conditioned to anthropogenic food sources.

The Interagency Grizzly Bear Committee (IGBC) was formed in 1983 to help ensure recovery of viable grizzly bear populations and their habitat in the lower 48 states through interagency coordination of policy, planning, management, and research. The IGBC consists of representatives from the U.S. Forest Service, the National Park Service, the U.S. Fish and Wildlife Service, the Bureau of Land Management, the U.S. Geological Survey, and representatives of the state wildlife agencies of Idaho, Montana, Washington, and Wyoming. In the interest of international coordination and cooperation, the Canadian Wildlife Service is also represented. IGBC's goal of grizzly bear recovery is enhanced by addressing issues that can result in bears being removed from the population. Toward this end, decreasing the availability of attractants such as human food and garbage is an important means of achieving IGBC's goal of reducing human-bear conflicts and recovering grizzly bear populations.

In 1989 the IGBC developed the first consistent protocol for defining, testing, and recommending minimum design standards for grizzly bear-resistant containers (IGBC 1989). Over the past two decades, much progress has been made relative to products used for securing bear attractants. Manufacturers and agency personnel have taken the lead in developing better products for securing food, garbage and other bear attractants and there is now a wide variety of bear-resistant product options available to consumers.

## Program Purpose

The purposes of the IGBC Bear-Resistant Products Testing Program are to:

- 1) Evaluate products for use in grizzly bear habitat on public lands in the lower 48 states that have applicable food storage regulations. Such regulations may vary, so the public is encouraged to check with the specific public land management unit in which they are interested.
- 2) Encourage the use of bear-resistant equipment on private lands where regulations mandating bear-resistant storage might not exist.
- 3) Provide information to the public and to agency personnel to facilitate informed decisions when purchasing grizzly bear-resistant products.

This testing program offers a way to evaluate the relative effectiveness of a wide range of products used to secure potential bear attractants and provides critical information about products that minimize easy access to attractants by grizzly bears. The IGBC testing program helps to identify ineffective products and encourages development of new and improved bear-resistant products and options for deterring grizzly bears. Information obtained through product testing ultimately helps provide consistent and professional guidance relative to the effectiveness of bear-resistant products to the public and government agency personnel.

If a product appears on the list of IGBC-certified bear-resistant products, it means that the commercially available product has met minimum standards relative to the effort that a grizzly bear must expend to access the contents of the product. Testing standards used by the IGBC were established through consultation with human-bear conflict experts and grizzly bear biologists throughout North America and the testing protocol was subjected to a thorough peer-review process. The IGBC only uses grizzly bears to test products. Wildlife professionals do not know if there are differences in the way grizzly bears and other bear species access bear-resistant products.

Designation of a product as bear-resistant by the IGBC does not assert that these products are “bear-proof” or that the containers will never be accessed by bears. IGBC-certification also does not guarantee that small amounts of the contents of the containers won’t be able to leak or spill out. In conjunction with properly utilizing certified bear-resistant products, the IGBC strongly encourages people living or recreating in grizzly bear habitat to take personal responsibility for maintaining a high level of diligence in their sanitation and attractant storage to further minimize the chance of a human-bear conflict.

## **Testing Procedures**

This grizzly bear-resistant product testing protocol pertains to food storage and garbage containment products that are commercially available. Products modified or produced by individuals for their own personal use to comply with food storage orders on public lands may be able to be evaluated through the IGBC courtesy inspection program. This document does not address that process, but more information can be found on the IGBC web site under the “Bear-Resistant Products” tab. Please contact the IGBC for more information about the courtesy inspection program.

Manufacturers submitting commercial products for testing must follow the directions and provide the information as described in the “Get Your Product Tested” document available on the IGBC website (<https://igbconline.org/programs/bear-resistant-products/>). Only one of each product will be tested. If multiples of a product are submitted, they MUST differ from the others in some distinguishable way.

**Products submitted for testing or evaluation must be working prototypes. Any changes to the certified products after testing will likely require re-testing and could result in removal from the IGBC list of certified products.**

**Please note that the test result applies ONLY to the product as it was submitted for testing.** If a product fails testing, it can be modified and re-tested at a later date. If it passes during the subsequent test, the product will be considered for certification. If certified, it will be added to the IGBC list of certified products.

Testing fees are charged for the evaluation of commercially available products. In addition, if a product is certified by IGBC, an annual administrative fee is charged to the manufacturer. A schedule of all fees associated with this program is available on the IGBC website ([www.igbconline.org](http://www.igbconline.org)).

### **Plastic Products and Lightweight Metal Products**

This section outlines the testing process for plastic products, including residential curbside garbage polycarts, and small, lightweight, metal products such as rafting dry boxes and horse panniers. Because of reports of field failures, beginning with the 2022 testing season, all plastic garbage polycarts submitted as “fully automated” will undergo an additional test that involves lifting and tipping (emptying) with a garbage truck to ensure that they will open properly for garbage haulers. More information about the new garbage truck testing component for fully automated polycarts is provided below.

Table 1 below presents various product categories and the tests required for each product type. Descriptions of each test follow the table.

Table 1. Evaluations required by product type.

<b><u>PRODUCT TYPE</u></b>	<b><u>REQUIRED EVALUATIONS</u></b>
Hard-Sided Backpacking Canisters and Small Storage Drums	<ol style="list-style-type: none"> <li>1. visual inspection</li> <li>2. live grizzly bear test</li> </ol>
Coolers and Composters	<ol style="list-style-type: none"> <li>1. visual inspection</li> <li>2. live grizzly bear test</li> </ol>
Soft-Sided Food Storage Products	<ol style="list-style-type: none"> <li>1. visual inspection</li> <li>2. live grizzly bear test</li> </ol>
Plastic Garbage Cans/Polycarts	<ol style="list-style-type: none"> <li>1. visual inspection</li> <li>2. live grizzly bear test</li> <li>3. truck test (fully automated curbside polycarts <i>only</i>)</li> </ol>
Pannier/Kitchen Box, Dry Boxes	<ol style="list-style-type: none"> <li>1. visual inspection</li> <li>2. live grizzly bear test</li> <li>3. technical evaluation (products with less than 60 minutes of bear contact time <i>only</i>)</li> </ol>

***Visual Inspection***

Commercially available products first undergo a visual inspection. Product components (i.e., latches, hinges, lids, coverings, openings, etc.) that might allow a bear to gain entry by breaking, bending, tearing, biting, or pulling with its claws or teeth will be inspected and photographs of the product will be taken.

Products must be clean and free of loose parts and debris, or sharp edges, corners or points that may be harmful to humans or the captive test bears. Testing personnel reserve the right to charge a Product

Safety Modification Fee (see fee schedule) or refuse testing of products that may be dangerous for the captive test bears.

Products that pass the visual inspection will then undergo either a live bear test or a technical evaluation. Products that are made of plastic, and lighter-weight aluminum will undergo a live bear test. Heavy-duty metal products such as garbage dumpsters, food storage lockers and trash can enclosures, will undergo a technical evaluation. The technical evaluation process is described beginning on Page 10.

### ***Live Grizzly Bear Test***

The live bear test will utilize captive grizzly bears at an IGBC-approved facility to evaluate plastic products such as coolers, plastic panniers, backpacking canisters, most residential garbage cans, other types of plastic storage containers, and small, lightweight, aluminum dry boxes, panniers and other aluminum storage boxes and cases. The Grizzly & Wolf Discovery Center (GWDC) in West Yellowstone, Montana is currently the only facility approved to test products for the IGBC.

Live-bear testing will be conducted between April 1<sup>st</sup> and September 30<sup>th</sup>. The GWDC will not accept products prior to March 15<sup>th</sup> due to a lack of available storage on site. The GWDC also reserves the right to decline products prior to September 30<sup>th</sup> due to inclement weather or a high volume of late-season product submissions.

Live grizzly bear testing will be conducted as follows:

1. Testing personnel will prepare test products by placing an appropriate attractant (i.e., food item) inside. Containers that do not rely on an odor-proof barrier or liner might also have a small amount of attractant (i.e., honey, peanut butter, fish oil, etc.) applied to the outside of the product at vulnerable areas.
2. Testing personnel will ensure that products are closed and securely latched, knotted, or padlocked, as appropriate.
3. Products will be placed inside the grizzly bear enclosure and bears will be allowed to interact with them. Products will likely undergo contact by several bears of varying size and levels of experience with bear-resistant products.
4. Products will remain in the bear enclosure and accessible to bears until breached, until a total of 60 minutes of “bear contact time” has been reached, or until bears lose interest in

testing that product. If the bears lose interest in testing a product, the product may undergo a technical evaluation (described on page 11).

“Bear contact time” is defined as biting, clawing, pounding, rolling, compressing, chewing, or scratching by the captive test bear(s). Licking and/or sliding products along the ground do not count toward bear contact time. Bear contact time stops if the bears take the product into the pond.

*A testing session can be terminated at the discretion of the testing personnel.*

5. Testing personnel will monitor and video all product testing. Photos and video will be archived by the IGBC for a period of five years after testing.
6. Testing personnel will photograph products after testing is complete. Photos will show multiple angles and sides of the product, and areas where the bears damaged or breached the products.
7. Descriptions of areas where the product fails, if any, will be made on the product testing form, and this information will be made available to the product submitter upon request.

A determination of whether or not a product passes the live-bear test will be made by the Testing Program Team. This decision is final.

Manufacturers/vendors wishing to obtain an SD card of unedited testing video for an additional fee (see Fee Schedule) must notify the testing facility at the time products are submitted. **Requests for testing video must be indicated on the product submission form.** Requests for testing videos made after the testing process has been completed cannot be accommodated.

### ***Truck Test for Fully Automated Polycarts (new for 2022)***

Fully automated curbside garbage polycarts are designed to have the cart lids unlatch and open automatically as the cart is being lifted, tipped, and emptied by a mechanical arm on a garbage truck. Unlike for other types of bear-resistant polycarts, the waste hauler does not need to manually unlatch the lid on a fully automated polycart. Beginning with the 2022 testing season, when submitting their product to IGBC, manufacturers will indicate if they want their polycart to be evaluated as a fully automated bear-resistant polycart (by selecting “fully automated” on the Product Submission Form). If so, a two-pronged evaluation composed of a live bear test and a garbage truck test will be conducted. The live-bear test component will be conducted as previously described. For the truck test component, a garbage truck will

lift and tip the polycart five times. If the polycart passes the live-bear test, and the polycart opens properly a minimum of four times during the truck test, the product will be considered for certification as a “fully automated bear-resistant polycart.” Polycarts submitted as fully automatic must pass both the live bear test and the truck test to be considered for IGBC certification as a fully automated bear-resistant polycart. We will not be able to accommodate requests to be present during the truck test due to logistical and liability concerns.

**Products submitted for testing become the property of the designated testing facility if appropriate arrangements for disposition have not been made within 60 days after product testing.**

### *Special Testing Procedure for Lightweight Metal Products*

Captive bears used for product testing occasionally experience “testing fatigue” and may lose interest in testing metal products. Testing fatigue can result in an inability to accumulate at least 60 minutes of bear contact time. Testing personnel will use a combination of bear contact time and testing personnel expertise to evaluate lightweight aluminum products such as horse panniers, dry boxes, and small storage boxes.

Lightweight metal products will be evaluated using:

A live bear test consisting of a full 60 minutes of bear contact time; or,

A combination of a live bear test with less than 60 minutes of bear contact time, and a technical evaluation (explained on page 10).

Table 2 contains the criteria needed for plastic and lightweight (i.e., aluminum) products to pass testing. Criteria for large, heavy-duty metal products are described in the section on technical evaluations starting on page 10 of this document.

Table 2. IGBC Criteria for Passing by Product Type (Plastic and Lightweight Metal Products).

PRODUCT TYPE	CRITERIA TO “PASS” TEST
Hard-Sided Backpacking Canisters and Small Storage Drums	1. no gaps, tears, or holes of ¼” or more at any time during the test
Coolers and Composters	1. no gaps, tears, or holes through inner layer of the product of ¼” or more at any time during the test
Soft-Sided Food Storage Products	1. no gaps, tears, or holes of ¼” or more at any time during the test
Plastic Garbage Cans/Polycarts	<ol style="list-style-type: none"> <li>1. the bear does not gain access at any time during the test</li> <li>2. no gaps, tears, or holes of 1” or more at any time during test</li> <li>3. hinges, seams, lids, or doors are not torn, bent, or broken</li> <li>4. product remains functional after 60 minutes of bear contact time</li> <li>5. fully automated polycarts must work properly with garbage truck four times out of five</li> </ol>
Pannier/Kitchen Box, Dry Boxes	1. no gaps, tears, or holes of ¼” or more at any time during the test

## **Heavy-Duty Metal Products**

### ***Technical Evaluation***

Steel products, metal products mounted to a concrete pad or other stationary surface, and lightweight aluminum products that the bears do not show an interest in testing, will undergo a technical evaluation.

Manufacturers must submit the following to have metal products evaluated/tested:

- a set of mechanical drawings, including specifications and a materials list,
- the product being evaluated/tested, and
- a *fully completed* product submission form.

A review of more than ten years of captive grizzly bear testing data identified certain product specifications for metal products that prevented bears from breaching those products. Commonalities between metal products provide a way to evaluate those products by applying a set of standardized criteria. During a technical evaluation, testing personnel will compare criteria to the metal product being evaluated to determine if that product meets IGBC standards of bear-resistance.

Products evaluated through technical evaluation include garbage dumpsters, recreational food storage lockers, residential garbage can enclosures, and other metal enclosures. As mentioned previously, lightweight aluminum products that do not accrue the minimum 60 minutes of bear contact time will have testing completed using the technical evaluation process.

Descriptions of types of heavy-duty metal products and the applicable specific technical evaluation criteria are described in the paragraphs below.

**Garbage Dumpsters:** Garbage dumpsters commonly include 2, 3, 4, 6 and 8 yard<sup>3</sup> commercial garbage dumpsters and can come in front, rear or side-load configurations. These containers are typically placed at commercial enterprises and multiple-unit dwellings such as condos and apartment buildings. Evaluation criteria for dumpsters will focus on gaps between lids and dumpster bodies and latches used to secure lids.

Figure 1 illustrates how users access the dumpster.

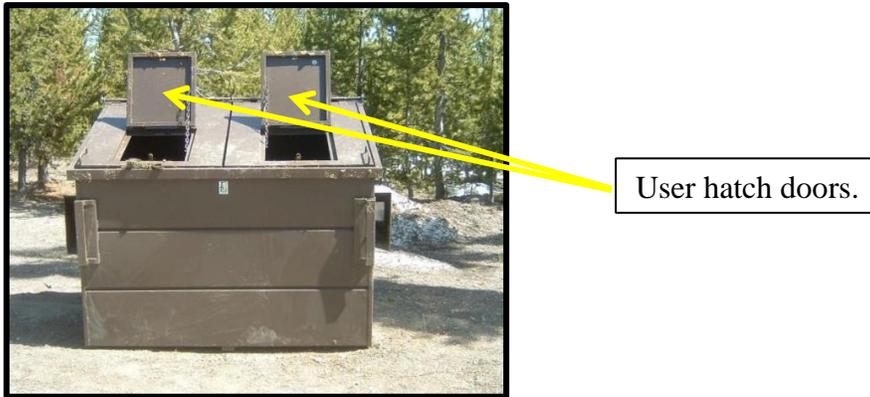


Figure 1. Bear-resistant dumpster.

**Metal Garbage Can and Bag Holders and Garbage Can Enclosures:** Products in this category typically include metal units that are mounted along sidewalks or in residential areas where homeowners are required to store garbage cans along the street in a bear-resistant manner. While these units can come in many variations, they tend to have several things in common.

Metal garbage bag holders and garbage can enclosures are bolted to hard, immovable surfaces like a sidewalk or concrete pad. These units also tend to be smaller and lighter than most garbage dumpsters. They are serviced by hand as opposed to being emptied by a garbage truck. The photos below show an example of a metal garbage bag holder (Figure 2) and a garbage can enclosure (Figure 3).



Figure 2. Metal garbage bag holder (double unit).



Figure 3. Residential garbage can enclosure.

**Recreational Food Storage Lockers:** Recreational food storage lockers on public lands provide a secure place for campers to store coolers and other foods while away from their campsite (Figure 4). Most food storage lockers are similar in construction, although the door latching systems can vary by manufacturer.

Evaluation criteria for food storage lockers focus on overall construction (strength) of the units and the size of gaps between doors and the body of the units. Latches must be bear-resistant, although the actual type of latch can vary from unit to unit. Evaluation criteria are described below.



Figure 4. Recreational food storage locker in a campground in Montana.

### ***Technical Evaluation Criteria***

- **Container Bodies and Main Service Lids**

1. Dumpsters, food storage lockers, garbage can enclosures and garbage bag enclosures must be fabricated of a minimum of 14-gauge sheet steel. Products fabricated from aluminum sheet metal (i.e., rafting dry boxes, truck boxes, and panniers) must be fabricated from a minimum of 12-gauge 5052 aluminum sheet metal.
2. Seams/welds must be tight and free of sharp edges.
3. No gaps between main service lid and dumpster body greater than ½” (see Figure 5 for illustration of service lid, dumpster body and gap size).

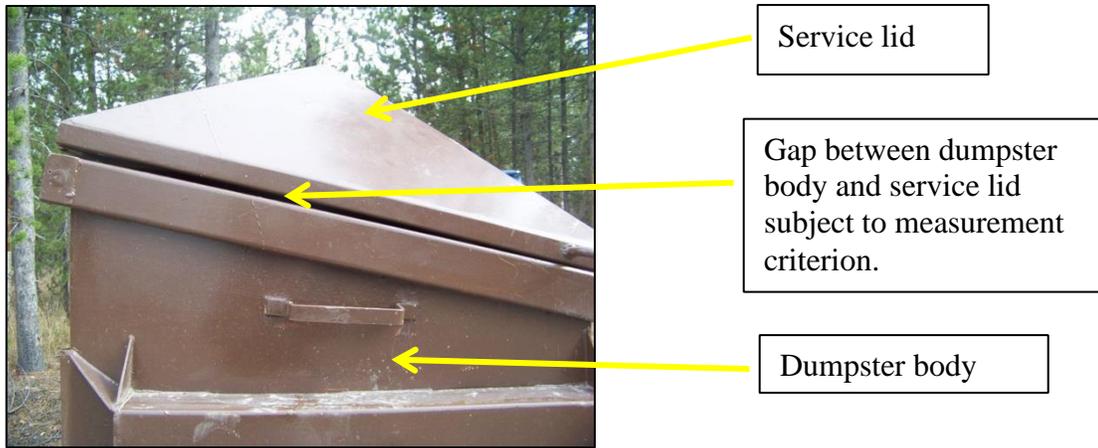


Figure 5. Dumpster showing various components subject to technical criteria.

4. Edges of service lids must be cold rolled or reinforced with angle iron.
5. Service lids must secure to the body via a latch, chain, lock bar or some other mechanism. In other words, there must be a locking or latching mechanism to ensure that the service lid is not able to open or lift off of the dumpster body (Figure 6) such that it creates a gap of more than 1/2”.

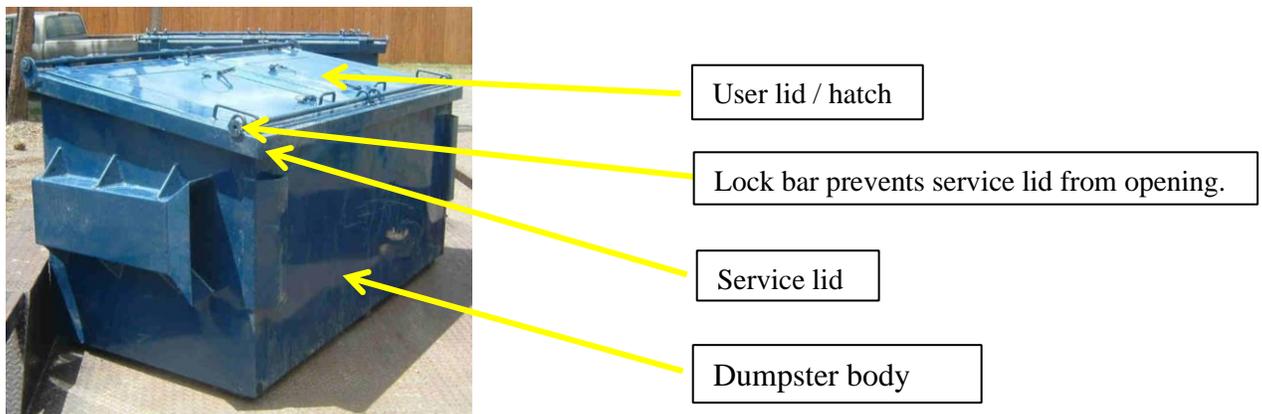


Figure 6. Dumpster with components labeled.

- **User Hatches/Doors**

1. Gaps between user hatches and doors, and the main body of the unit must be 1/4” or less for non-mechanically emptied products (i.e., panniers, dry boxes, food storage boxes and garbage

can enclosures) and ½” or less for products that are emptied by a garbage truck (see Figure 7 for an example of gaps subject to this measurement criterion).

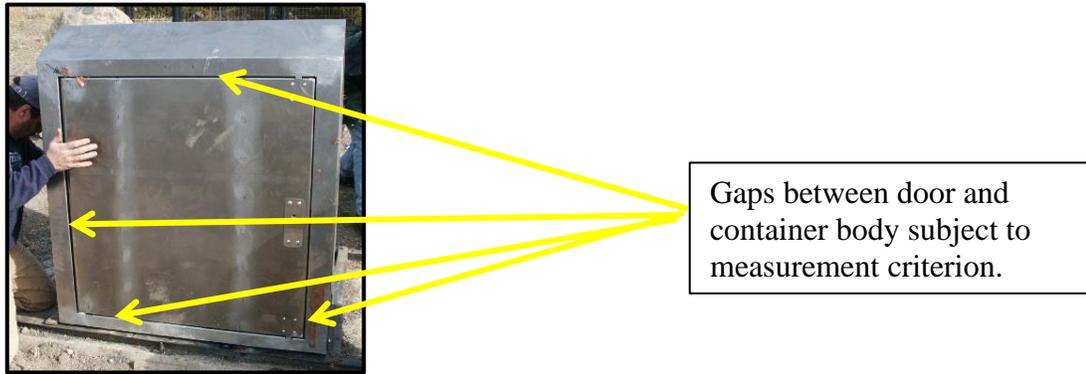


Figure 7. Garbage can enclosure showing gaps subject to measurement during technical evaluation.

2. User hatch doors must secure to the service lid in some way (i.e., chain or metal cable and carabiner clip, paddle latch, “lock and key” system or other type of latch). Carabiner clips must be a minimum of 3” and must be zinc plated or galvanized zinc to prevent them from rusting and must be securely attached to the unit (see Figures 8 and 9 below for examples).



Figure 8. Carabiner clip closure.



Figure 9. Key lock closure.

3. Rods on latches (Figure 10) must be long enough such that any flex in the body of the unit does not result in the rod disengaging from the keeper.

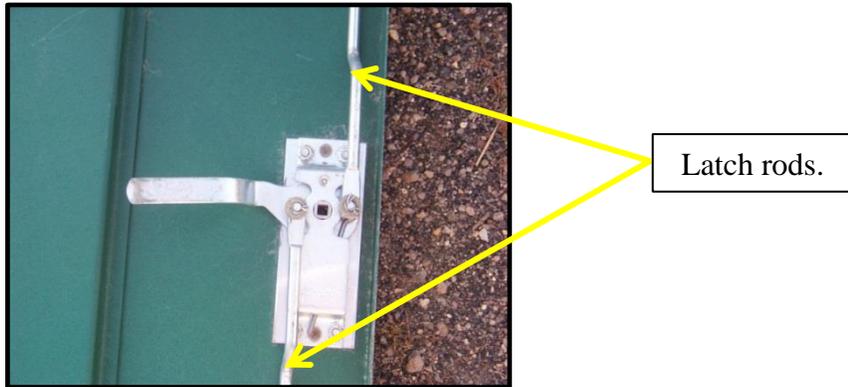


Figure 10. Latch rods on the inside of a garbage can enclosure door.

- **Latches**

1. Latches on user hatches/lids or doors must be designed such that bears are unable to activate them with paws, claws, tongues, or teeth. Figures 11 – 15 provide examples of various latch hoods and latch guards that are effective.

- ❖ An example of an acceptable design includes a metal “hood” or cover over the latch with a metal guard or riser in front of latch and hood (Figure 11). This design has been used effectively for over a decade with a paddle type latch to prevent bears from activating latches on various bear-resistant dumpsters and other food and garbage-related receptacles.

If this design is used, the following guidelines must be followed. It should be noted that these guidelines were developed after years of testing various latching systems with captive grizzly bears at the Grizzly & Wolf Discovery Center in West Yellowstone, Montana.

- **Hoods and Guards**

1. Latch guards must be a minimum of 1½” high and must extend past latch hood openings by at least ½” on each side as shown in Figure 13.
2. The distance between the hood opening and the guard must be between 1½” and 2” and the latch must be set a minimum of 2” inside the opening of the hood (Figure 14) to prevent the bears from easily activating the latch.
3. The latch hood must be between 1” and 1¼” high and ¾” and 4” wide to prevent a bear’s paw from reaching under the latch hood (Figure 15) but allow a human hand to access the latch under the hood.

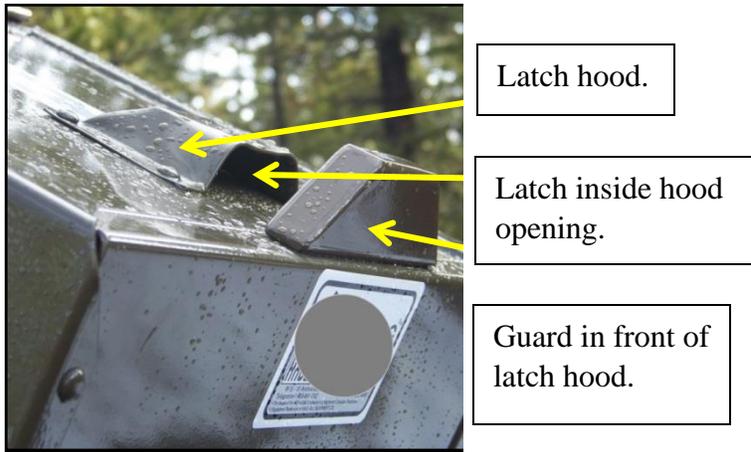


Figure 11. Garbage bag enclosure showing latch hood and guard.

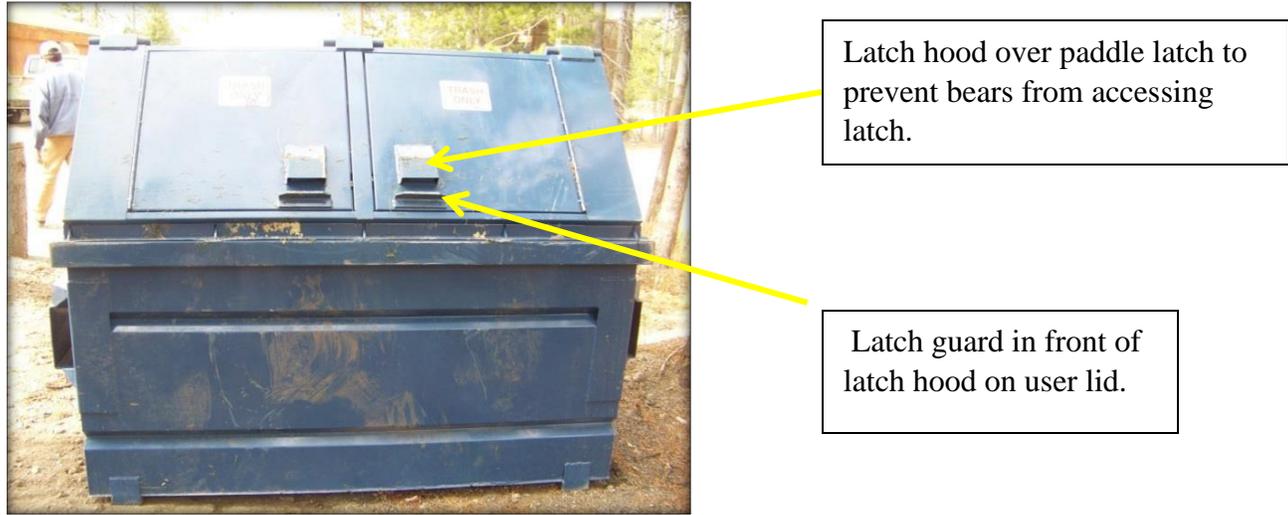


Figure 12. Bear-resistant dumpster showing latch hood and guard.

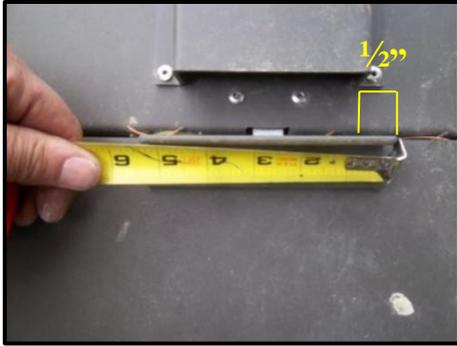


Figure 13. Latch guard must extend at least ½” past the latch hood on each side.



Figure 14. Example of distance needed between guard and latch hood opening. The tape begins at the latch (latch is located 2” inside hood).



Figure 15. Photo demonstrates that the latch hood over paddle latch is smaller than bear paw to prevent the bear from reaching under the hood and activating the latch

## Product Certification and Reporting of Testing Results

A final review of product documentation and test results by the Product Testing Team will determine if the product will be certified as bear-resistant by the IGBC. Products that pass will be considered for IGBC certification as bear-resistant. Certified products will be assigned a unique certification number and will be added to the List of IGBC-Certified Products.

Product submitters (the person named as the contact person on the Product Submission Form) will be notified in writing if their product is certified. If an email address is provided, the official certification letter will be sent electronically.

IGBC certification applies only to the specific products as evaluated. **If ANY of the following changes are made to a product AFTER successfully passing testing, the product will likely require re-testing and re-certification:**

- **changes to a product’s design and/or specifications**
- **product materials or parts are altered**
- **product dimensions are changed**
- **hinges, latches, molds, reinforcements, or any other features of the container are changed or modified**

Contact the IGBC Advisor for the Bear-Resistant Products Testing Program to discuss testing of modified products (please see end of this document for contact information).

Upon completion of testing:

- Testing personnel will notify manufacturers/vendors when testing is complete and will advise whether the product(s) has/have passed or failed testing. This determination is final.
- Manufacturers/vendors will receive a certification letter and a unique IGBC certification number for products that pass the applicable test(s)/evaluation and are certified as IGBC bear-resistant. The assigned certification number is applicable only to the specific product model(s) certified.
- Certification letters will provide instructions for proper display of the IGBC grizzly bear-resistant product logo (Figure 16) and the product’s certification number(s) on the certified product(s). Assigned IGBC certification numbers must be displayed on certified products in a highly-visible location – they can be etched, molded, stamped, or otherwise embossed, stickered or labeled onto the certified product.



Figure 16. IGBC Bear-Resistant Product logo.

Products that fail testing can be modified and re-tested at a later date. Products that pass testing will be considered for certification; and if certified, will be added to the IGBC list of certified products.

**Please note that certification applies ONLY to the product as it was submitted for testing.**

The official list of IGBC-certified bear-resistant products appears on the IGBC web site:

<http://www.igbconline.org/>. If a specific product does not appear on this list, it is not considered to be an IGBC-certified grizzly bear-resistant product.

## Program Disclaimers

- The primary purpose of the IGBC Bear-Resistant Products Testing Program is to provide information related to the effectiveness of grizzly bear-resistant products. As such the IGBC will provide information regarding performance of products tested to the public when requested. Proprietary product design information will be exempted from this requirement.
- Manufacturers/vendors concerned about confidentiality of new product designs should notify testing personnel. Testing personnel will make every effort to ensure confidentiality of product information. Neither the testing facility nor the IGBC are responsible for breach of such information.
- The IGBC and associated partners are not responsible for damage to products that are submitted for testing and are not responsible for negative testing outcomes.
- The IGBC reserves the right to rescind the “certified bear-resistant” status of any or all products listed on their website due to failure in the field, changes to product specifications or product modifications not approved by IGBC, or other issues.
- The IGBC reserves the right to request that manufacturers submit products for re-testing due to field failures or possible changes to product specifications of certified products.
- IGBC testing personnel will determine which grizzly bears will be used for product testing and when an adequate test has occurred.
- IGBC certification of a bear-resistant product means that product meets IGBC grizzly bear-resistant design and structural standards. IGBC recognition of products as “grizzly bear-resistant” is not a guarantee that a grizzly bear cannot gain entry into these products, or that small amounts of contents won’t leak or spill during product usage.
- Use of bear-resistant products is meant to complement, but not be a substitute for, following proper sanitation and attractant storage techniques when in bear habitat. More information related to this topic can be found on the IGBC website ([www.igbconline.org](http://www.igbconline.org)) under the “Be Bear Aware” tab.
- Program administrators reserve the right to review and modify this protocol as needed, or to decline to test certain products.

- The IGBC reserves the right to refuse the testing of products for companies that misrepresent the IGBC certification status of their products or make false statements related to the IGBC Bear-Resistant Products Testing Program.

## **Terms of Program Participation**

**Companies participating in this IGBC product testing and certification program agree to the following:**

1. Representatives from companies who attend product testing must not impede the testing process or distract testing facility staff.
2. Product submitters will not attempt to influence the testing process or product test results in any way.
3. Companies that produce multiple products will make clear on websites and marketing materials which model(s) are certified and agree not to misrepresent products that are NOT IGBC-certified.

## **Contacts for Additional Information**

**To arrange for product testing, to check on the status of a product that is being tested, or to arrange for testing fee payment:**

Randy Gravatt  
Grizzly & Wolf Discovery Center  
406-646-7001 x112 or 800-257-2570  
[randyg@grizzlydiscoveryctr.com](mailto:randyg@grizzlydiscoveryctr.com)

**Questions about the IGBC list of certified products and general program inquiries:**

Patti Sowka  
406-544-5307  
[testing@igbconline.org](mailto:testing@igbconline.org)

**Certification of products or for general program inquiries:**

Scott Jackson  
IGBC Advisor  
406-329-3664  
[scott.jackson@usda.gov](mailto:scott.jackson@usda.gov)

Additional information relevant to this program can be found on the IGBC website ([www.igbconline.org](http://www.igbconline.org)), including under the “Programs/Bear-Resistant Products” tab.

**Reference cited**

IGBC. 1989. Bear-Resistant Containers - Minimum Design and Structural Standards; Inspection and Testing Methodology. 35 pp.