

## Personnel Baskets



# PERSONNEL BASKETS

Model #: PB3x3, PB4x4, PB4x6,  
PB4x8, FB4x4

04/2025

Our equipment is designed, manufactured & tested in accordance with current OSHA (1926.1431), ASME, and Canadian WCB (WPL2-2004) standards.

Built to exceed minimum code regulations.

All welding of the Personnel Basket and its components are performed by certified welders, familiar with weld grades, types, and material specified in the design.

It is impossible to compile a list of safety precautions covering all situations. However, there are basic safety precautions that must be followed during your inspections. Please refer to OSHA regulations for Crane Safety Regulations.

For more information, visit [www.OSHA.gov](http://www.OSHA.gov)



Eldco LLC, dba: Cabs-Rops & Attachments  
P.O. Box 158, 8725 S Gravel Pit Road  
Iron River, WI 54847 USA  
(800) 743-3993  
Email: [Info@Cabs-Rops.com](mailto:Info@Cabs-Rops.com)  
<https://Cabs-Rops.com>



This guide is intended as a general usage overview only for this Personnel Basket (hereafter referred to as PB or Personnel Basket). It does not replace, alter or determine compliance responsibilities with OSHA standards or the Occupational Safety and Health Act of 1970.

Employers are responsible for providing a safe workplace for their employees. They must ensure that work zones are inspected for hazards and take corrective actions to eliminate these.

OSHA's role is to ensure safety by setting and enforcing standards. They achieve this by providing training, education, establishing partnerships, and encouraging continual improvement in workplace safety. Because interpretations and enforcement policies may change, you should consult current OSHA administrative interpretations, decisions by the Occupational Safety and Health Review Commission, and the courts for additional guidance on OSHA compliance requirements.

A Personnel Basket is meant to be used to hoist personnel to different locations where no other practicable way is available or safer.

Allow only authorized qualified personnel, who understand and demonstrate proper procedures to use and perform inspections of the Personnel Basket.

Allow only qualified crane or derrick operators when using the Personnel Basket. An untrained operator subjects oneself and others to death or serious injury.

The total capacity MUST NOT exceed the rating as posted on the ID Data Plate - this includes the combined weight of personnel and tools. The Data Plate contains important information. This is attached inside the basket. Do NOT remove, disfigure or cover this information.

-Warning: Death or Serious Injury can result from:

- Fall at elevated level
- Electrical Shock
- Objects falling from Personnel Basket
- Entanglement hazards
- Contact with objects
- Contact with overhead objects
- Tip-over or overturn

**WARRANTY:** Our Personnel Baskets are warranted in the "as shipped" configuration for a period of (1) year / (12) months. The structural integrity of the personnel basket is paramount. Overturns, alterations, and improper repair can impair the capability and integrity of the PB. Do NOT: drill, cut holes, weld, or attach additional equipment to the basket. Any modifications to this equipment or repairs made without prior authorization from the manufacturer will void this agreement and the certification rating of the basket. Any abused or unintended use of this PB is not considered under this warranty and will void this agreement and certification rating also.

## Inspection Checklist



Before each use, an inspection for damage, defects, and unauthorized modifications must be performed on the Personnel Basket. Inspection must consist of, but not to be limited to the following items:

- Visually inspect for damage to structure: dents, corrosion, cracks in frame or welds, and gouges.
- Master link
- Slings
- Sling eyes and upper-end fittings
- Lower sling fittings
- Cotter pins
- Sling attachment points
- Data plate is attached, legible, and not visually blocked
- Top guardrail
- Mid-rail or solid side
- Inner tie off / grab rail and tie off anchors
- Self closing gate, lock and hinge functioning properly
- Floor solid, free of oil, grease, snow & loose items
- Toe-board or solid sides
- Test weight, lifting eyes, and attachment chains

\*Note: Strict observance and execution of all exception procedures set forth on this checklist will better qualify personnel to perform in a safer, more professional manner, but it does NOT release the users from the responsibility of obtaining, reading and fully understanding the applicable OSHA regulations regarding Personnel Baskets, Cranes and Derricks.

### TEST WEIGHT FORMS (Model # TST1250)

The test weight form is a reinforced container designed to accommodate complete fill of concrete; maximum 125% of 1,250 lbs capacity for testing (1,563 lbs). Supplied with 3/8" 80 grade alloy chain for bottom hook & alloy safety shackles, and are secured with bolt, nut, and cotter pin/key.

Required trial lift "proof testing" must be done with 125% of the Personnel Basket (PB) capacity. The test weight for 1,250 lb Personnel Basket is 1,563 lb. It is vital that the test be fulfilled throughout the full range of the intended lift and MUST be done every time the position of the crane or lift, different lifting mechanism used.

### RIGGING / SLING / BRIDLE (Model # RIG2)

Rigging/Sling/Bridle (RIG2) 3/8" D wire rope, 5 leg bridle; 4 leg to master link, 5th attached to above overhaul ball.

\* NEVER attempt to modify the rigging/sling/bridle. Replace the rigging/sling/bridle when damaged.

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## DO:

- ✓ Do know and follow the safety and operating recommendations and training provided by crane manufacturer's manual, your employers work rules, and applicable Government Regulations.
- ✓ Do understand all procedures before using this PB.
- ✓ Do get the necessary and recommended training required before using this PB.
- ✓ Do a complete inspection of the PB before each use.
- ✓ Do the mandatory proof weight test each time the crane is moved, reset, or a different lifting mechanism used.
- ✓ Do wear a hard hat, safety harness, and all personal protection gear required.
- ✓ Do attach lanyard to anchor point and make sure door is securely latched.
- ✓ Do make sure of your surroundings. Maintain adequate distance from electrical lines, cables, and other objects. Be aware of any minimum clearance regulations that need to be followed.
- ✓ Do be aware of overhead clearance and overhead objects.
- ✓ Do know the weight of all individuals, tools, materials, and objects located in or attached to the Personnel Basket. Take this into account when calculating the load. Follow the rated capacity of the PB. Capacity (LBS) is located on ID Data Plate.
- ✓ Do know the weight of all load handling devices – Personnel Basket, load block, overhaul ball, jib and/or extension. Make the proper subtraction according to the Crane manufacturer's load capacity chart. This must not exceed one-half the rated net load of the crane.
- ✓ Do exercise extreme caution and awareness to ensure safety of yourself and others.
- ✓ Do make Safety YOUR PRIMARY RESPONSIBILITY.

## DO NOT:

- ✗ Do NOT drill, cut holes, weld, attach additional equipment, or make any modifications and alterations to this PB.
- ✗ Do NOT use PB that has not been first submitted and verified by the required trial proof testing.
- ✗ Do NOT sit, stand, or climb on the guard rail of the PB.
- ✗ Do NOT use a faulty or damaged PB.
- ✗ Do NOT use faulty or damaged crane.
- ✗ Do NOT lift the PB with any equipment other than a crane or derrick.
- ✗ Do NOT use the PB without having the crane inspected by a qualified crane inspector first.
- ✗ Do NOT use the PB to hoist personnel if another practicable way is available and safer. Not to be used as a convenience, only as a necessity.
- ✗ Do NOT violate the required clearances from electrical power lines. This PB does not provide protection from contact with or proximity to an electrically charged power line.
- ✗ Do NOT permit unauthorized personnel to use the PB.
- ✗ Do NOT permit individuals, who are not qualified and knowledgeable of this manual and applicable OSHA and ASME regulations regarding PB, cranes or derricks.
- ✗ Do NOT allow persons in the PB with test weight attached.
- ✗ Do NOT tie off your body harness lanyard to adjacent structures, boom, or bucket when operating/utilizing the PB.
- ✗ Do NOT use boards, ladders, extensions, or any other devices as a work position in the PB.
- ✗ Do NOT carry objects larger than the PB.
- ✗ Do NOT use the Personnel Basket if the ID Data Plate is missing, illegible, or ruined.



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**(1) Scope, application and definitions**

(i) Scope and application. This standard applies to the design, construction, testing, use and maintenance of personnel platforms, and the hoisting of personnel platforms on the load lines of cranes or derricks.

(ii) Definitions. For the purposes of this paragraph (g), the following definitions apply:

(A) "Failure" means load refusal, breakage, or separation of components.

(B) "Hoist" (or hoisting) means all crane or derrick functions such as lowering, lifting, swinging, booming in and out or up and down, or suspending a personnel platform.

(C) "Load refusal" means the point where the ultimate strength is exceeded.

(D) "Maximum intended load" means the total load of all employees, tools, materials, and other loads reasonably anticipated to be applied to a personnel platform or personnel platform component at any one time.

(E) "Runway" means a firm, level surface designed, prepared and designated as a path of travel for the weight and configuration of the crane being used to lift and travel with the crane suspended platform. An existing surface may be used as long as it meets these criteria.

**(2) General requirements.** The use of a crane or derrick to hoist employees on a personnel platform is prohibited, except when the erection, use, and dismantling of conventional means of reaching the worksite, such as a personnel hoist, ladder, stairway, aerial lift, elevating work platform or scaffold, would be more hazardous or is not possible because of structural design or worksite conditions.

**(3) Cranes and derricks**

(i) Operational criteria.

(A) Hoisting of the personnel platform shall be performed in a slow, controlled, cautious manner with no sudden movements of the crane or derrick, or the platform.

(B) Load lines shall be capable of supporting, without failure, at least seven times the maximum intended load, except that where rotation resistant rope is used, the lines shall be capable of supporting without failure, at least ten times the maximum intended load. The required design factor is achieved by taking the current safety factor of 3.5 (required under 1926.550(b)(2) and applying the 50 percent derating of the crane capacity which is required by 1926.550(g)(3)(i)(F).

(C) Load and boom hoist drum brakes, swing brakes, and locking devices such as pawls or dogs shall be engaged when the occupied personnel platform is in a stationary position.

(D) The crane shall be uniformly level within one percent of level grade and located on firm footing. Cranes equipped with outriggers shall have them all fully deployed following manufacturer's specifications, insofar as applicable, when hoisting employees.

(E) The total weight of the loaded personnel platform and related rigging shall not exceed 50 percent of the rated capacity for the radius and configuration of the crane or derrick.

(F) The use of machines having live booms (booms in which lowering is controlled by a brake without aid from other devices which slow the lowering speeds) is prohibited.

(ii) Instruments and components.

(A) Cranes and derricks with variable angle booms shall be equipped with a boom angle indicator, readily visible to the operator.

(B) Cranes with telescoping booms shall be equipped with a device to indicate clearly to the operator, at all times, the boom's extended length or an accurate determination of the load radius to be used during the lift shall be made prior to hoisting personnel.

(C) A positive acting device shall be used which prevents contact between the load block or overhaul ball and the boom tip (anti-two-blocking device), or a system shall be used which deactivates the hoisting action before damage occurs in the event of a two-blocking situation (two-block damage prevention feature).

(D) The load line hoist drum shall have a system or device on the power train, other than the load hoist brake, which regulates the lowering rate of speed of the hoist mechanism (controlled load lowering.) Free fall is prohibited.

**(4) Personnel Platforms**

(i) Design criteria.

(A) The personnel platform and suspension system shall be designed by a qualified engineer or a qualified person competent in structural design.

(B) The suspension system shall be designed to minimize tipping of the platform due to movement of employees occupying the platform.

(C) The personnel platform itself, except the guardrail system and personnel fall arrest system anchorages, shall be capable of supporting, without failure, its own weight and at least five times the maximum intended load. Criteria for guardrail systems and personal fall arrest system anchorages are contained in subpart M of this Part.

(ii) Platform specifications.

(A) Each personnel platform shall be equipped with a guardrail system which meets the requirements of Subpart M, and shall be enclosed at least from the toeboard to mid-rail with either solid construction or expanded metal having openings no greater than 1/2 inch (1.27 cm).

(B) A grab rail shall be installed inside the entire perimeter of the personnel platform.

(C) Access gates, if installed, shall not swing outward during hoisting.

(D) Access gates, including sliding or folding gates, shall be equipped with a restraining device to prevent accidental opening.

(E) Headroom shall be provided which allows employees to stand upright in the platform.

(F) In addition to the use of hard hats, employees shall be protected by overhead protection on the personnel platform when employees are exposed to falling objects.

(G) All rough edges exposed to contact by employees shall be surfaced or smoothed in order to prevent injury to employees from punctures or lacerations.

(H) All welding of the personnel platform and its components shall be performed by a qualified welder familiar with the weld grades, types and material specified in the platform design.

(I) The personnel platform shall be conspicuously posted with a plate or other permanent marking which indicates the weight of the platform, and its rated load capacity or maximum intended load.

(iii) Personnel platform loading.

(A) The personnel platform shall not be loaded in excess of its rated load capacity. When a personnel platform does not have a rated load capacity then the personnel platform shall not be loaded in excess of its maximum intended load.

(B) The number of employees occupying the personnel platform shall not exceed the number required for the work being performed.

(C) Personnel platforms shall be used only for employees, their tools and the materials necessary to do their work, and shall not be used to hoist only materials or tools when not hoisting personnel.

(D) Materials and tools for use during a personnel lift shall be secured to prevent displacement.

(E) Materials and tools for use during a personnel lift shall be evenly distributed within the confines of the platform while the platform is suspended.



(iv) Rigging.

(A) When a wire rope bridle is used to connect the personnel platform to the load line, each bridle leg shall be connected to a master link or shackle in such a manner to ensure that the load is evenly divided among the bridle legs.

(B) Hooks on overhaul ball assemblies, lower load blocks, or other attachment assemblies shall be of a type that can be closed and locked, eliminating the hook throat opening. Alternatively, an alloy anchor type shackle with a bolt, nut and retaining pin may be used.

(C) Wire rope, shackles, rings, master links, and other rigging hardware must be capable of supporting, without failure, at least five times the maximum intended load applied or transmitted to that component. Where rotation resistant rope is used, the slings shall be capable of supporting without failure at least ten times the maximum intended load.

(D) All eyes in wire rope slings shall be fabricated with thimbles.

(E) Bridles and associated rigging for attaching the personnel platform to the hoist line shall be used only for the platform and the necessary employees, their tools and the materials necessary to do their work and shall not be used for any other purpose when not hoisting personnel.

**(5) Trial lift, inspections and proof testing**

(i) A trial lift with the unoccupied personnel platform loaded at least to the anticipated lift weight shall be made from ground level, or any other location where employees will enter the platform to each location at which the personnel platform is to be hoisted and positioned. This trial lift shall be performed immediately prior to placing personnel on the platform. The operator shall determine that all systems, controls and safety devices are activated and functioning properly; that no interferences exist; and that all configurations necessary to reach those work locations will allow the operator to remain under the 50 percent limit of the hoist's rated capacity. Materials and tools to be used during the actual lift can be loaded in the platform, as provided in paragraphs (g)(4)(iii)(D), and (E) of this section for the trial lift. A single trial lift may be performed at one time for all locations that are to be reached from a single set up position.

(ii) The trial lift shall be repeated prior to hoisting employees whenever the crane or derrick is moved and set up in a new location or returned to a previously used location. Additionally, the trial lift shall be repeated when the lift route is changed unless the operator determines that the route change is not significant (i.e. the route change would not affect the safety of hoisted employees.)

(iii) After the trial lift, and just prior to hoisting personnel, the platform shall be hoisted a few inches and inspected to ensure that it is secure and properly balanced. Employees shall not be hoisted unless the following conditions are determined to exist:

(A) Hoist ropes shall be free of kinks;

(B) Multiple part lines shall not be twisted around each other;

(C) The primary attachment shall be centered over the platform, and

(D) The hoisting system shall be inspected if the load rope is slack to ensure all ropes are properly stowed on drums and in sheaves.

(iv) A visual inspection of the crane or derrick, rigging, personnel platform, and the crane or derrick base support or ground shall be conducted by a competent person immediately after the trial lift to determine whether the testing has exposed any defect or produced any adverse effect upon any component or structure.

(v) Any defects found during inspections which create a safety hazard shall be corrected before hoisting personnel.

(vi) At each job site, prior to hoisting employees on the personnel platform, and after any repair or modification, the platform and rigging shall be proof tested to 125 percent of the platform's rated capacity by holding it in a suspended position for five minutes with the test load evenly distributed on the platform (this may be done concurrently with the trial lift.)

After proof testing, a competent person shall inspect the platform and rigging. Any deficiencies found shall be corrected and another proof test shall be conducted. Personnel hoisting shall not be conducted until the proof testing requirements are satisfied.



**(6) Work practices.**

(i) Employees shall keep all parts of the body inside the platform during raising, lowering, and positioning. This provision does not apply to an occupant of the platform performing the duties of a signal person.

(ii) Before employees exit or enter a hoisted personnel platform that is not landed, the platform shall be secured to the structure where the work is to be performed, unless securing to the structure creates an unsafe situation.

(iii) Tag lines shall be used unless their use creates an unsafe condition.

(iv) The crane or derrick operator shall remain at the controls at all times when the crane engine is running and the platform is occupied.

(v) Hoisting of employees shall be promptly discontinued upon indication of any dangerous weather conditions or other impending danger.

(vi) Employees being hoisted shall remain in continuous sight of and in direct communication with the operator or signal person. In those situations where direct visual contact with the operator is not possible, and the use of a signal person would create a greater hazard for the person, direct communication alone such as by radio may be used.

(vii) Except over water, employees occupying the personnel platform shall use a body belt/harness system with lanyard appropriately attached to the lower load block or overhaul ball, or to a structural member within the personnel platform capable of supporting a fall impact for employees using the anchorage. When working over water the requirements of 1926.106 shall apply.

(viii) No lifts shall be made on another of the crane's or derrick's loadlines while personnel are suspended on a platform.

**(7) Traveling.**

(i) Hoisting of employees while the crane is traveling is prohibited, except for portal, tower and locomotive cranes, or where the employer demonstrates that there is no less hazardous way to perform the work.

(ii) Under any circumstances where a crane would travel while hoisting personnel, the employer shall implement the following procedures to safeguard employees:

(A) Crane travel shall be restricted to a fixed track or runway;

(B) Travel shall be limited to the load radius of the boom used during the lift;

and

(C) The boom must be parallel to the direction of travel.

(D) A complete trial run shall be performed to test the route of travel before employees are allowed to occupy the platform. This trial run can be performed at the same time as the trial lift required by paragraph (g)(5)(i) of this section which tests the route of the lift.

(E) If travel is done with a rubber tired-carrier, the condition and air pressure of the tires shall be checked. The chart capacity for lifts on rubber shall be used for application of the 50 percent reduction of rated capacity. Notwithstanding paragraph (g)(5)(i)(E) of this section, outriggers may be partially retracted as necessary for travel.

**(8) Pre-lift meeting.**

(i) A meeting attended by the crane or derrick operator, signal person(s) (if necessary for the lift), employee(s) to be lifted, and the person responsible for the task to be performed shall be held to review the appropriate requirements of paragraph (g) of this section and the procedures to be followed.

(ii) This meeting shall be held prior to the trial lift at each new work location, and shall be repeated for any employees newly assigned to the operation.

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**CAUTION**  
**KEEP OUT**  
FROM UNDER  
CRANE LOADS

**DANGER**  
WORKERS ABOVE  
WATCH FOR  
FALLING MATERIAL

**CRANE TO BE**  
**OPERATED BY**  
**TRAINED AND**  
**AUTHORIZED**  
**EMPLOYEES ONLY**

**WARNING**  
  
**Workers**  
**Overhead.**  
**Watch out for**  
**falling objects.**

**DANGER**  
**OVERHEAD**  
**POWER-LINE**  
WATCH  
CLEARANCE!

**CAUTION**  
LIFELINE  
MUST BE HOOKED UP  
WHILE  
ON PLATFORM

**DANGER**  
MEN  
WORKING  
BELOW 

**CAUTION**  
  
**Proper PPE Required**  
**Boots, Hardhats, Gloves**  
**(when task requires),**  
**Fall Protection (above 6'),**  
**Safety Vests and Glasses**

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# OVERHEAD CRANE HAND SIGNALS



HOIST



LOWER



BRIDGE TRAVEL



TROLLEY TRAVEL



STOP



EMERGENCY STOP



MULTIPLE TROLLEYS



MOVE SLOWLY



MAGNET DISCONNECTED

# MOBILE CRANE HAND SIGNALS



HOIST



LOWER



USE MAIN HOIST



USE WHIPLINE



RAISE BOOM



LOWER BOOM



MOVE SLOWLY



RAISE THE BOOM  
LOWER THE LOAD



LOWER THE BOOM  
RAISE THE LOAD



SWING



STOP



EMERGENCY STOP



TRAVEL



DOG EVERYTHING



TRAVEL  
(BOTH TRACKS)



TRAVEL  
(ONE TRACK)



EXTENDED BOOM



RETRACT BOOM



EXTEND BOOM  
(ONE HAND)



RETRACT BOOM  
(ONE HAND)



