

# Bid Specifications

## Apex 1™ 1-Position Bicycle Rack

UNIQUE AND CRITICAL FEATURES

1. The bicycle rack shall transport one (1) bicycle weighing up to 75 lbs. in weight.
  2. The bicycle rack shall feature a single-sided support arm that is linearly extendable, supporting the bicycle tire near the intersection of the front tire and head tube, to minimize lateral movement.
  3. The bicycle rack shall support a full-size bicycle tire at the top +/- 30° to maximize retention of the bicycle.
  4. To maintain operation when the vehicle is in a kneeled position, no parts shall extend below the rack frame that could impede loading or unloading.
  5. To extend the useful life and reduce maintenance costs, replacement parts, and failures - the rack shall not utilize gas springs.
  6. The bicycle rack shall accommodate bicycles with wheelbase dimensions up to 48" and tire widths up to 3.2" with standard wheel trays; wheelbase dimensions up to 51" and tire widths up to 5.5" with optional fat tire kit.
  7. The bicycle rack shall feature durable padded support arm handles and support bikes with wheel diameters 16-29" (standard wheel tray and support arm) or 24-29" (when equipped with fat tire wheel tray and support arm).
  8. To maximize strength and reduce fatigue cracks, the frame tubes to which the trays are affixed shall have no through-holes.
9. The bicycle rack shall support up to 200 lbs. of centrally located static load when the vehicle is not in motion.
  10. The bicycle rack shall be of modular construction with a removable wheel tray, providing the ability for field-upgrade of wheel tray options and to easily replace parts that may be damaged by collision.
  11. All parts of the bicycle rack shall be made of stainless steel, aluminum, or other corrosion-resistant materials to extend the service life of the rack. Plated steel components subject to wear shall not be used.
  12. No straps or cords shall be required to secure the bicycle, eliminating service items that require maintenance and frequent replacement.
  13. The bicycle rack shall only have contact with the bicycle tires, to reduce scratching and/or damage to the bicycle.
  14. The bicycle rack shall be designed and manufactured specifically for commercial transit use by a vendor that has proven successful deployments of at least 10,000 bicycle racks at a minimum of 50 transit authorities in North America.
  15. The bicycle rack shall comply with Buy America requirements and be designed and manufactured in the United States.
  16. The rack shall not require "stowing" eliminating the need to adhere to OSHA and NIOSH limits.
  17. The bicycle rack shall be designed to encourage loading and unloading from the curbside of the vehicle to ensure safety of passengers utilizing the rack.
  18. Additional options and accessories for the bicycle rack shall include:
    - a. Custom colors (special order)
    - b. Standard wheel tray to support bikes with tires up to 3.2" wide; or optional fat tire tray to support bikes with tires up to 5.5" wide
    - c. Bilingual decals

**Part Numbers:** Apex 1 Rack –101451 (Standard), 101451-FAT (Fat tire tray and support arm.)