



Achieva Box Car Rally Construction Specifications

The following requirements apply to construction of all cars racing in both Homemade and All-American Soap Box Derby Style divisions of the Achieva Box Car Rally. All cars are required to pass a safety inspection during the event check-in process. Achieva Credit Union officials reserve the right to refuse any car from competing in the race if deemed to be unsafe for any reason.

POWER

- All cars must move only with the aid of gravity.
- No motors (electric or gas), or any other mode of propulsion may be used and cars must move down the race track with only the aid of gravity.

BRAKING

- Adequate braking system is required.
- Cars must be equipped with a minimum braking capability consisting of a hardwood block connected to a hinge and pedal system, so as to contact the ground when pedal is depressed.

STEERING

- Adequate steering system is required to maneuver slight turning capability while the car is in motion.

DIMENSIONS

- *Car length* - minimum of 48 inches and maximum of 96 inches.
- *Car height* - maximum of 48 inches from ground to highest point of car.
- *Ramp clearance* - Ramp angle is approximately 12-15 degrees. Recommended maximum of 6 inches from front wheels to nose of the car to ensure clearance.

WEIGHT

- The maximum total weight of a box car is one hundred fifty (150) pounds. This includes all removable parts, embellishments and additional weights.
- The weight of the driver is excluded.
- Additional weights are permitted and must be safely secured to the car prior to inspection. Weights are subject to inspection by Achieva Credit Union officials for approval at any point during the race event.
- Additional weights may not be added in the pit area or starting ramp area under any circumstance.
- Carrying weights in pockets/clothing is prohibited for safety reasons.

ADDITIONAL REGULATIONS

- No glass windshields or any other glass materials will be permitted.
- Interior area of the car must be open for inspection purposes.
- It is recommended that all exposed edges of the cockpit opening have pipe insulation or equivalent padding for driver safety.
- Wheels must be secured on axles with cotter pins or locking nuts.
- No alterations to car after the inspection process will be permitted, including in the pit area or on the starting ramp.
- Safety is the primary focus of car inspections to protect drivers. Please ensure your car meets all safety requirements prior to arriving at the event.

HOMEMADE DIVISION CARS ONLY

Cars racing in this division may be built from a variety of materials. Examples may include plywood, surfboards or filing cabinets. Unique design and creativity is encouraged in this category! Cars racing in this division may NOT be based from an AASBD Style car kit.

ALL-AMERICAN SOAP BOX DERBY STYLE CARS ONLY

Cars racing in this division must be built from an All-American Soap Box Derby (AASBD) kit only and must race using standard kit "Z-Glas" wheels. Rubber wheels are not permitted in this division.

QUESTIONS

Please contact Chelsey Wilson, Event Director, at 727.431.7362 or events@achievacu.com.