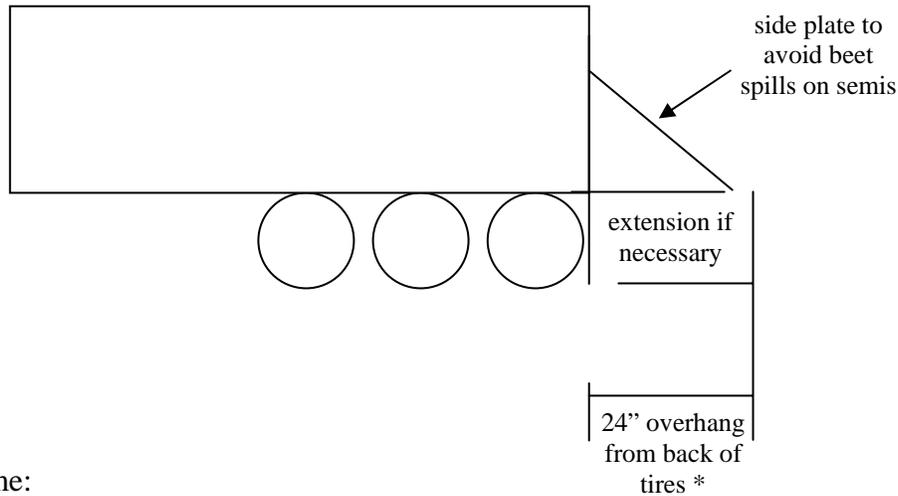


# AMERICAN CRYSTAL SUGAR COMPANY TRUCK SPECIFICATIONS



## Total Unloading Time:

- Tandems - 2.25 minutes
- Tri-axles - 2.75 minutes
- Semis - 3.50 minutes

## Hoist Guidelines:

- 30 seconds hoist downtime tandems and triples
- 45 seconds hoist downtime semis

## Other:

- A minimum ground clearance between front and rear axles should be 13" inches. This should prevent possible damage to the truck such as fuel tanks. Trucks with less than 13" of ground clearance may access the piler at their own risk of damage.
- Maximum opening of endgates should not exceed 40". This will help prevent spillage of beets over the back of the end dumps, which slows down harvest. Chains or some other means of limiting the end gate opening is required.
- The truck must have sufficient ground clearance (24") behind the rearmost tire to clear the end dump doors. Hitches or any other structure that will cause point contact with the end dump doors behind the rearmost tires must either be removed or altered to include a bumper.
- The truck should have an overhang of 24" from the back of the rear tire to the end of the box. This helps prevent beet spillage. \*
- Install mudscrapers between the duals to reduce the amount of mud on the roads.
- Pay full attention when driving on to the pilers and unloading. TVs or cell phones should not be used.
- To reduce wasted time at the piling sites, we ask that drivers, after unloading and lowering their boxes, drive straight forward under the dirt belt to receive their tare dirt. Then backup and drive away from the piler.
- Frameless end dump trailers are not allowed to unload beets on ACSC pilers. This type of trailer is unsafe because the tractor moves while unloading.
- If your truck spills beets, more adjustments may be required beyond these specifications.
- You are entering a high traffic industrial work zone. Anyone under the age of 14 must remain in their vehicle.

\* Please see "Truck Bumper Specifications" on back.

# TRUCK BUMPER SPECIFICATIONS

## I. Any truck that is not a semi.

- a. This category covers all sizes of straight trucks, which are single axle, tandem, tri-axle, and quad-axle.
- b. Each truck in which the vertical distance between the rear bottom edge of the body (or the chassis assembly if the chassis is the rear most part of the vehicle) and the ground is greater than 30” when the motor vehicle is empty, shall be equipped with a bumper.
- c. The bumper must be installed and maintained in such a manner that the vertical distance between the bottom of the bumper and the ground does not exceed 30” when the motor vehicle is empty.
- d. The maximum lateral distance between the closest points between bumpers, if more than one is used, may not exceed 24”.
- e. The outermost surfaces of the horizontal part of the bumper may not be more than 18” from each side extremity of the truck.
- f. The bumper may not be more than 24” forward of the rear extremity of the truck.
- g. The bumper must be “substantially constructed” and attached by means of bolts, welding, or other comparable means.
- h. A truck that is constructed and maintained so that the body, chassis, or other parts of the truck itself provide the rear end protection comparable to bumpers conforming to the requirements stated above will be considered to be in compliance with those requirements.
- i. Federal Law: The rules must be followed for any straight truck that crosses state lines.
- j. North Dakota Law: The rules must be followed for any straight truck that operates in North Dakota.
- k. Minnesota Law: The rule does NOT need to be followed for trucks operating solely in Minnesota that do not cross state lines.

## II. Semi-trailers manufactured before January 26, 1998.

- a. This category of truck covers any semi-trailer manufactured before January 26, 1998.
- b. The bumper rule for this category of truck is the same for these semis as it is for straight trucks (see I.).
- c. Please remember that any chute attached to the rear of the truck box to avoid spillage on beet pilers needs to be considered as the rear most extremity of the truck.

## III. Semi-trailers manufactured after January 26, 1998.

- a. This category covers any semi-trailer manufactured after January 26, 1998.
- b. Each semi-trailer in this category with a gross vehicle weight rating of 10,000 pounds or more must be equipped with a bumper that meets the requirements of Federal Motor Vehicle Safety Standard No 223 in effect at the time the vehicle was manufactured.
- c. The outermost surfaces of the horizontal part of the bumper must extend to within 4” of the side extremities of the truck and shall not extend beyond the side extremity of the truck.
- d. The vertical distance between the bottom edge of the horizontal part of the bumper and the ground shall not exceed 22” at any point across the full width of the bumper.
- e. Bumpers with rounded corners may curve upward within 10” of the longitudinal vertical planes that are tangent to the side extremities of the truck.
- f. At any height of 22” or more above the ground, the rearmost surface of the horizontal part of the bumper must be within 12” of the rear extremity of the truck.
- g. Bumpers with rounded corners may curve forward within 10” of the side extremity.
- h. The horizontal part of each bumper must have a cross sectional vertical height of a least 3.94” at any point across the bumper width.
- i. ACSC has a need for consistency when these bumpers are mounted because the “A” door on the end dump of the piler requires a certain clearance, the bumper has to be 22” above the ground.
- j. ACSC would prefer a 4” round tube rather than a 4” square tube for the horizontal piece on the bumper. This will cause less wear on the belting attached to the “A” door.
- k. **Most importantly, bumpers on these trailers must be certified.**