

**TABLE I**  
**Brake Performance**

Passenger carrying vehicles with seating capacity of 10 persons or less and built on passenger frame:

	<b>SERVICE BRAKE SYSTEM</b>		<b>EMERGENCY BRAKE</b>
Percent braking force	Deceleration in feet/seconds	Stopping distance in feet at 20 MPH	Stopping distance in feet at 20 MPH
65.2	21	20	54

Passenger carrying vehicles with seating capacity of over 10 persons built on passenger car chassis; vehicles built on truck or bus chassis with manufacturer's gross weight of 10,000 pounds or less:

Percent braking force	Deceleration in feet/seconds	Stopping distance in feet at 20 MPH	Stopping distance in feet at 20 MPH
52.8	17	25	66

All other passenger carrying vehicles:

Percent braking force	Deceleration in feet/seconds	Stopping distance in feet at 20 MPH	Stopping distance in feet at 20 MPH
43.5	14	35	85

Property-carrying vehicles having manufacturer's gross weight of 10,000 pounds or less:

Percent braking force	Deceleration in feet/seconds	Stopping distance in feet at 20 MPH	Stopping distance in feet at 20 MPH
52.8	17	25	66

Single property-carrying vehicles having manufacturer's gross weight over 10,000 pounds except truck tractors. Combinations of 2-axle towing vehicle and trailer having GVRW of 3,000 pounds or less:

Percent braking force	Deceleration in feet/seconds	Stopping distance in feet at 20 MPH	Stopping distance in feet at 20 MPH
43.4	14	35	85

All other property-carrying vehicles and combinations of property carrying vehicles:

Percent braking force	Deceleration in feet/seconds	Stopping distance in feet at 20 MPH	Stopping distance in feet at 20 MPH
43.5	14	40	90

**TABLE II**  
**Required Motor Vehicle Lighting Equipment**

(as adopted in Chapter 153)

ITEM	MULTI-PURPOSE PASSENGER VEHICLES, TRUCKS AND BUSES-80" OR MORE OVERALL WIDTH
Headlamps . . . . .	2 white, 7" Type 2 headlamp units or 2 white, 5 ¾" Type 1 headlamp units and 2 white, 5 ¾" Type 2A headlamp units and 2 white, Type 1A headlamp units.  2 white headlamps, Type 2B1 or Type 2D1; or 4 white headlamps; 2 each Type 1C1 and Type 2C1, Type 2A1.
Taillamps . . . . .	2 red
Stoplamps . . . . .	2 red
License Plate Lamp . . . . .	1 white
Reflex Reflectors . . . . .	4 red; 2 amber
Side Marker Lamps . . . . .	2 red; 2 amber
Backup Lamp . . . . .	1 white
Turn Signal Lamps . . . . .	2 red or amber; 2 amber
Turn Signal Operating Unit . . . . .	1
Turn Signal Flasher . . . . .	1
Vehicular Hazard Warning Signal Operating Unit . . . . .	1
Vehicular Hazard Warning Signal Flasher . . . . .	1
Identification Lamps . . . . .	3 amber; 3 red
Clearance Lamps . . . . .	2 amber; 2 red
Intermediate SideMarker Lamp . . . . .	2 amber
Intermediate ReflexReflectors . . . . .	2 amber

### TABLE III

## Location of Required Equipment

Multi-purpose Passenger Vehicles, Trucks, Trailers and Buses-80" or More Overall Width

ITEM	LOCATION ON	Height above road surface measured from center of item on vehicle
	<b>Multi-purpose passenger vehicles, trucks and buses</b>	
Headlamps . . . . .	Type 1 headlamps at the same height. . . . . 1 on each side of the vertical centerline. Type 2 headlamps at the same height. 1 on each side of the vertical centerline, as far apart as practicable.	Not less than 24" nor more than 54"
Taillamps . . . . .	On the rear, 1 on each side of the vertical centerline, . . . . . at the same height, and as far apart as practicable.	Not less than 15" nor more than 72"
Stoplamps . . . . .	On the rear, 1 on each side of the vertical centerline, . . . . . at the same height, and as far apart as practicable.	Not less than 15" nor more than 72"
License Plate Light .	At rear license plate, to illuminate the plate from the . . . . . top or sides.	No Requirement
Backup Lamp . . . . .	On the rear . . . . .	No Requirement
Turn Signal Lamps .	At or near the front 1 amber on each side of the vertical . . . . . centerline, at the same height and as far apart as practicable. On the rear 1 red or amber on each side of the vertical centerline, at the same height, and as far apart as practicable.	Not less than 15" nor more than 83"
Identification . . . . . Lamps	On the front and rear 3 lamps, amber in front, red in rear, . . . . . as close as practicable to the top of the vehicle, at the same height as close as practicable to the vertical centerline, with lamp centers spaced not less than 6" or more than 12" apart.	No Requirements
Clearance Lamps . .	On the front and rear 2 amber lamps on front, red in rear, . . . . . as close as practicable to the top of the vehicle, 1 on each side of the vertical centerline, at the same height, and as near the top as practicable.	No Requirements
Intermediate Side . . Marker Lamps	On each side 1 amber located at or near the midpoint . . . . . between the front and rear side marker lamps.	Not less than 15"
Intermediate Side . . Reflex Reflectors	On each side 1 amber located at or near the midpoint . . . . . between the front and rear side reflex reflector.	Not less than 15" nor more than 60"
Reflex Reflectors. . .	On the rear 1 red on each side of the vertical center- . . . . . line, as far apart as practicable, and at the same height.	Not less than 15" nor more than 60"
Side Marker . . . . . Lamps	On each side 1 red as far to the rear as practicable, . . . . . and 1 amber as far to the front as practicable.	Not less than 15" and on the rear of trailers not more than 60"

**TABLE IV**  
**Required Motor Vehicle Lighting Equipment**

(as adopted in Chapter 153)

ITEM	<b>PASSENGER CARS, MOTORCYCLES AND MULTI-PURPOSE VEHICLES, TRUCKS, TRAILERS, AND BUSES OF LESS THAN 80" OVERALL WIDTH</b>
Headlamps . . . . .	2 white, 7", Type 2 headlamp units or 2 white 5¾", Type 1 headlamp units or 2 white 5¾" Type 2A headlamp units and 2 white Type 1A headlamp units.  2 white headlamps, Type 2B1 or Type 2D1; 4 white headlamps, 2 each Type 1C1 and Type 2C1, or Type 1A1 and Type 2A1.
Taillamps . . . . .	2 red
Stoplamps . . . . .	2 red
License Plate Light . . . . .	1 white
Parking Lamps . . . . .	2 amber or white
Reflex Reflectors . . . . .	4 red; 2 amber
Intermediate Side Reflex Reflectors . . . . .	2 amber
Intermediate Side Marker Lamps . . . . .	2 amber
Side Marker Lamps . . . . .	2 red; 2 amber
Backup Lamp . . . . .	1 white
Turn Signal Lamps . . . . .	2 red or amber
Turn Signal Operating Unit . . . . .	1
Turn Signal Flasher . . . . .	1
Vehicular Hazard Warning Signal Operating Unit . . . . .	1
Vehicular Hazard Warning Signal Flasher . . . . .	1

## TABLE V Location of Required Equipment

### MOTORCYCLES

ITEM	LOCATION ON MOTORCYCLES	Height above road surface measured from center of item on vehicle
Turn Signal Lamps . . . . .	<p>At or near the front 1 amber on each side of the vertical centerline at the same height, and having a minimum horizontal separation distance (centerline of lamps) of 16". Minimum edge to edge separation distance between lamp and headlamp is 4".</p> <p>At or near the rear 1 red or amber on each side of the vertical centerline, at the same height and having a minimum horizontal separation distance (centerline to centerline of lamps) of 9". Minimum edge to edge separation distance between lamp and tail or stop lamp is 4".</p>	Not less than 15" nor more than 83"
<p><b>NOTE:</b> A portion of Table V was inadvertently omitted from the official text of Chapter 175. The remainder of Table V is as follows:</p>		
Headlamps . . . . .	On the vertical centerline, except if two are used, they shall be symmetrically disposed about the vertical centerline.	Not less than 24" nor more than 54"
Taillamps . . . . .	On the rear, on the vertical centerline except that if two are used, they shall be symmetrically disposed about the vertical centerline.	Not less than 15" nor more than 72"
Stoplamps . . . . .	On the rear, on the vertical centerline except that if two are used, they shall be symmetrically disposed about the vertical centerline.	Not less than 15" nor more than 72"
License Plate Lamp .	At rear license plate . . . . .	No Requirement
Reflex Reflectors . .	On the rear 1 red on the vertical centerline except that if two are used on the rear, they shall be symmetrically disposed about the vertical centerline. On each side, 1 red as far to the rear as practicable, and 1 amber as far to the front as practicable.	Not less than 15"

*(Table V continued on next page)*

**TABLE V - Location of Required Equipment (continued)**

PASSENGER CARS, MULTI-PURPOSE PASSENGER CARS, TRUCKS, TRAILERS,  
AND BUSES OF LESS THAN 80" OVERALL WIDTH

ITEM	LOCATION ON Passenger Cars, Multi-Purpose Passenger Cars, Trucks, Trailers and Buses	Height above road surface measured from center of item on vehicle
Turn Signal Lamps	At or near the front 1 amber on each side of the vertical centerline, at the same height, and as far apart as practicable.  On the rear, 1 red or amber on each side of the vertical centerline, at the same height, and as far apart as practicable.	Not less than 15" nor more than 83"  Not less than 15" nor more than 83"
Headlamps	Type 1 headlamp at the same height, 1 each side of the vertical centerline, at the same height, and as far apart as practicable.	Not less than 24" nor more than 54"
Taillamps	On the rear, 1 on each side of the vertical centerline, at the same height, and as far apart as practicable.	Not less than 15" nor more than 72"
Stoplamps	On the rear, 1 on each side of the vertical centerline, at the same height, and as far apart as practicable.	Not less than 15" nor more than 72"
License Plate Light	At rear license plate, to illuminate the plate from the top or sides.	No Requirement
Reflex Reflectors	On the rear, 1 red on each side of the vertical centerline, at the same height, and as far apart as practicable. On each side, 1 red as far to the rear as practicable, and 1 amber as far to the front as practicable.	Not less than 15" nor more than 60"
Parking Lamps	On the front, 1 on each side of the vertical centerline, at the same height, and as far apart as practicable.	Not less than 15"
Backup Lamps	On the rear	No Requirement
Side Marker Lamps	On each side, 1 red as far to the rear as practicable, and 1 amber as far to the front as practicable.	Not less than 15"
Intermediate Side Marker Lamps	On each side, 1 amber located at or near the midpoint between the front and rear side marker lamps.	Not less than 15"
Intermediate Side	On each side, 1 amber located at or near the midpoint between the front and rear side marker reflector.	Not less than 15"

*\*Front Turn Signal Lamps Not Required for Trailers.*

## TABLE VI Vehicle Glazing

### ADDITIONAL GLAZING INFORMATION

- NOTES:**
- Table below is an appendix in ANSI Glazing Standard Z26.1
  - Glazing marked AS10 or AS11 has bullet resisting qualities.
  - Acceptable numbers shown in the two columns to the right, are marked on the glass and are preceded by the letter “AS”

#### Position of Glazing in Motor Vehicle Passenger Cars and Taxicabs

	Glazing Material Applicable When Marked with “AS” Designation Indicated Below	
	At Levels Requisite for Driving Visibility	At Levels Not Requisite for Driving Visibility
<b>Passenger Cars:</b>		
Windshields .....	1,10	1*, 10*
Interior partitions, auxiliary wind deflectors, flexible curtains, readily removable windows, ventilators used in conjunction with readily removable windows, rear windows in tops of convertible cars. ....	1, 2, 4, 10, 11	1, 2, 3, 4, 5, 10, 11
Openings in roofs not required for driving visibility .....	1, 2, 3, 4, 5, 6, 7, 10, 11	1, 2, 3, 4, 5, 10, 11
All other glazing .....	1, 2, 10,11	1, 2, 3, 10, 11
<b>Taxicabs:</b>		
Windshields .....	1,10	1*, 10*
Interior partitions, auxiliary wind deflectors, windows in rear doors. ....	1, 2, 4, 10, 11	1, 2, 3, 4, 5, 10, 11
Openings in roofs not required for driving visibility .....	1, 2, 3, 4, 5, 10, 11	1, 2, 3, 4, 5, 10, 11
Flexible curtains, readily removable windows, ventilators used in conjunction with readily removable windows. ....	1, 2, 4, 6, 10, 11	1, 2, 3, 4, 5, 6, 7, 10, 11
All other glazing .....	1, 2, 10, 11	1, 2, 3, 10, 11

\* *Glazing material which is intentionally made so that only a portion of a single sheet has a luminous transmittance of not less than 70 percent shall be marked at the edge of the sheet to show the limits of the area that may be used at levels requisite for driving visibility. The marks AS1 or AS2 etc., shall be used with the arrow pointing to the portion of the sheet having a luminous transmittance of not less than 70 percent and the number indicating the item with which that portion of the sheet complies.*

## TABLE VII Vehicle Glazing

### ADDITIONAL GLAZING INFORMATION

- NOTES:**
- Table below is an appendix in ANSI Glazing Standard Z26.1
  - Glazing marked AS10 or AS11 has bullet resisting qualities.
  - Acceptable numbers shown in the two columns to the right, are marked on the glass and are preceded by the letter “AS”

#### Position of Glazing in Motor Vehicle Trucks and Truck-Tractors and Buses

	Glazing Material Applicable When Marked with “AS” Designation Indicated Below	
	At Levels Requisite for Driving Visibility	At Levels Not Requisite for Driving Visibility
<b>Trucks and Truck-Tractors:</b>		
Windshields . . . . .	1,10 . . . . .	1*, 10*
Windows to immediate right or left of driver . . . . .	1, 2, 10, 11 . . . . .	1, 2, 3, 10, 11
Rear most window if used for driving visibility . . . . .	1, 2, 10, 11 . . . . .	1, 2, 3, 4, 5, 8, 9, 10, 11
Glazing to rear of driver where other means to visibility of the highway is provided . . . . .	1, 2, 3, 4, 5, 8, 9, 10, 11 . . . . .	1, 2, 3, 4, 5, 8, 9, 10, 11
Folding Doors . . . . .	1, 2, 4, 8, 10, 11 . . . . .	1, 2, 3, 4, 5, 8, 9, 10, 11
All other glazing . . . . .	1, 2, 10,11 . . . . .	1, 2, 3, 10, 11
<b>Buses:</b>		
Windshields . . . . .	1,10 . . . . .	1*, 10*
Glazing to immediate right and left of driver . . . . .	1, 2, 10, 11 . . . . .	1, 2, 3, 10, 11
Rear most window if used for driving visibility . . . . .	1, 2, 8, 10,11 . . . . .	1, 2, 3, 8, 9, 10, 11
Interior partitions and auxiliary wind deflectors . . . . .	1, 2, 4, 10, 11 . . . . .	1, 2, 3, 4, 5, 10, 11
Folding Doors . . . . .	1, 2, 4, 8, 10, 11 . . . . .	1, 2, 3, 4, 5, 8, 9, 10, 11
Standee Windows . . . . .	1, 2, 3, 4, 5, 8, 9, 10, 11 . . . . .	1, 2, 3, 4, 5, 8, 9, 10, 11
Openings in roof not required for driving visibility . . . . .	1, 2, 3, 4, 5, 10, 11 . . . . .	1, 2, 3, 4, 5, 10, 11
Flexible curtains readily removable windows, ventilators used in conjunction with readily removable windows. . . . .	1, 2, 4, 6, 10, 11 . . . . .	1, 2, 3, 4, 5, 6, 7, 10, 11
All other glazing . . . . .	1, 2, 3, 10, 11 . . . . .	1, 2, 3, 10, 11

\* Glazing material which is intentionally made so that only a portion of a single sheet has a luminous transmittance of not less than 70 percent shall be marked at the edge of the sheet to show the limits of the area that may be used at levels requisite for driving visibility. The marks AS1 or AS2 etc., shall be used with the arrow pointing to the portion of the sheet having a luminous transmittance of not less than 70 percent and the number indicating the item with which that portion of the sheet complies.



## TABLE VIII - Vehicle Glazing

### ADDITIONAL GLAZING INFORMATION

- NOTES:**
- Table below is an appendix in ANSI Glazing Standard Z26.1
  - Glazing marked AS10 or AS11 has bullet resisting qualities.
  - Acceptable numbers shown in the two columns to the right, are marked on the glass and are preceded by the letter “AS”

**Position of Glazing in Motor Vehicle House Trailers and Property-Carrying Trailers**

**Glazing Material Applicable When Marked with “AS” Designation Indicated Below**

At Levels Requisite for Driving Visibility	At Levels Not Requisite for Driving Visibility
---	---

**House Trailers and Property-Carrying Trailers:**

All glazing . . . . . 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11

\* *Glazing material which is intentionally made so that only a portion of a single sheet has a luminous transmittance of not less than 70 percent shall be marked at the edge of the sheet to show the limits of the area that may be used at levels requisite for driving visibility. The marks AS1 or AS2 etc., shall be used with the arrow pointing to the portion of the sheet having a luminous transmittance of not less than 70 percent and the number indicating the item with which that portion of the sheet complies.*

## TABLE IX - Vehicle Glazing

### ADDITIONAL GLAZING INFORMATION - MOTORCYCLES

- NOTES:**
- Table below is an appendix in ANSI Glazing Standard Z26.1
  - Glazing marked AS10 or AS11 has bullet resisting qualities.
  - Acceptable numbers shown in the two columns to the right, are marked on the glass and are preceded by the letter “AS”

**Glazing Material Applicable When Marked with “AS” Designation Indicated Below**

At Levels Requisite for Driving Visibility	At Levels Not Requisite for Driving Visibility
---	---

**Motorcycles:**

Windscreens . . . . . 1\*, 6, 10\*, 11 . . . . . 1, 6, 7, 10, 11

\* *Glazing material which is intentionally made so that only a portion of a single sheet has a luminous transmittance of not less than 70 percent shall be marked at the edge of the sheet to show the limits of the area that may be used at levels requisite for driving visibility. The marks AS1 or AS2 etc., shall be used with the arrow pointing to the portion of the sheet having a luminous transmittance of not less than 70 percent and the number indicating the item with which that portion of the sheet complies.*

**TABLE X**  
**Acceptable Light Transmittance Levels for Vehicle Glazing**

All light transmittance levels listed below assume a 3% accuracy (+ 3%)\*

Vehicle Type	Windshield	Front Side Windows/Wings	Rear Side Windows/Wings	Rear Window
Pre-1998 Passenger Cars	70%	70%	70%	VEESC-20*
1998 & Newer Passenger Cars	70%	70%	70%	70%
Trucks & Multi-Purpose Passenger Vehicles	70%	70%	No Requirement	No Requirement
Medium/Heavy Trucks & Buses	70%	70%	No Requirement	No Requirement
All Other Vehicles	70%	70%	No Requirement	No Requirement

\* A label, permanently installed between the sun screening device or other material and the glazing to which it is applied, shall contain the name of the device or material manufacturer or a registration number and the statement, "Complies with VEESC-20."