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a type identified in the installation instructions as appropriate for the platform lift as certified by the platform lift manufacturer.

S4.1.4 The platform lift, as installed, must continue to comply with all the applicable requirements of Federal Motor Vehicle Safety Standard No. 403, Lift Systems for Motor Vehicles (49 CFR 571.403).

S4.1.5 *Platform Lighting on public use lifts.* Public-use lifts must be provided with a light or set of lights that provide at least 22 lm/m² or 22 Lux (2 lm/ft² or 2 foot-candles) of illumination on all portions of the surface of the platform when the platform is at the vehicle floor level. Additionally, a light or set of lights must provide at least 11 lm/m² or 11 Lux (1 lm/ft² or 1 foot-candle) of illumination on all portions of the surface of the platform and all portions of the surface of the passenger-unloading ramp at ground level. In preparation for taking illumination measurements, operate the vehicle engine by idling or driving the test vehicle, with the vehicle's HVAC system turned off, for a minimum of 20 minutes, after which the engine is turned off. Illumination measurements are then recorded no later than 10 minutes after the time the engine is turned off, with the vehicle in a location where there is no apparent ambient light, and with the sensing element of the measuring device within 50 mm (2 inches) of the platform surface being measured.

S4.2 *Vehicle owner's manual insert requirements.* If the vehicle is equipped with an owner's manual, the owner's manual must contain the inserts provided by the lift manufacturer pursuant to S6.12 of 49 CFR 571.403.

S4.3 *Control panel switches.*

S4.3.1 Instructions regarding the platform lift operating procedures, including backup operations, as specified by S6.7.8 of 49 CFR 571.403, must be permanently affixed to a location adjacent to the controls.

S4.3.2 *Public use lift:* In addition to meeting the requirements of S4.3.1, for vehicles equipped with public use lifts, as defined in 49 CFR 571.403, any and all controls provided for the lift by the platform lift manufacturer other than those provided for back-up operation of the platform lift specified in S5.9 of 49

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CFR 571.403, must be located together and in a position such that the control operator has a direct, unobstructed view of the platform lift passenger and/or their mobility aid throughout the lift's range of passenger operation. Additional power controls and controls for back-up operation of the lift may be located in other positions.

[67 FR 79451, Dec. 27, 2002, as amended at 69 FR 58855, Oct. 1, 2004; 69 FR 76870, Dec. 23, 2004; 77 FR 20571, Apr. 5, 2012]

§ 571.500 Standard No. 500; Low-speed vehicles.

S1. *Scope.* This standard specifies requirements for low-speed vehicles.

S2. *Purpose.* The purpose of this standard is to ensure that low-speed vehicles operated on the public streets, roads, and highways are equipped with the minimum motor vehicle equipment appropriate for motor vehicle safety.

S3. *Applicability.* This standard applies to low-speed vehicles.

S4. [Reserved]

S5. *Requirements.*

(a) When tested in accordance with test conditions in S6 and test procedures in S7, the maximum speed attainable in 1.6 km (1 mile) by each low-speed vehicle shall not more than 40 kilometers per hour (25 miles per hour).

(b) Each low-speed vehicle shall be equipped with:

- (1) Headlamps,
- (2) Front and rear turn signal lamps,
- (3) Taillamps,
- (4) Stop lamps,
- (5) Reflex reflectors: one red on each side as far to the rear as practicable, and one red on the rear,
- (6) An exterior mirror mounted on the driver's side of the vehicle and either an exterior mirror mounted on the passenger's side of the vehicle or an interior mirror,
- (7) A parking brake,
- (8) A windshield that conforms to the Federal motor vehicle safety standard on glazing materials (49 CFR 571.205).
- (9) A VIN that conforms to the requirements of part 565 *Vehicle Identification Number* of this chapter, and
- (10) A Type 1 or Type 2 seat belt assembly conforming to Sec. 571.209 of this part, Federal Motor Vehicle Safety Standard No. 209, *Seat belt assemblies*,

installed at each designated seating position.

(11) Low-speed vehicles shall comply with the rear visibility requirements specified in paragraphs S6.2 of FMVSS No. 111.

(12) An alert sound as required by §571.141.

S6. *General test conditions.* Each vehicle must meet the performance limit specified in S5(a) under the following test conditions.

S6.1. *Ambient conditions.*

S6.1.1. *Ambient temperature.* The ambient temperature is any temperature between 0 °C (32 °F) and 40 °C (104 °F).

S6.1.2. *Wind speed.* The wind speed is not greater than 5 m/s (11.2 mph).

S6.2. *Road test surface.*

S6.2.1. *Pavement friction.* Unless otherwise specified, the road test surface produces a peak friction coefficient (PFC) of 1.02 when measured using a ASTM F2493 standard reference test tire, in accordance with ASTM E1337-19, at a speed of 64.4 km/h (40.0 mph), without water delivery (incorporated by reference; see §571.5).

S6.2.2. *Gradient.* The test surface has not more than a 1 percent gradient in the direction of testing and not more than a 2 percent gradient perpendicular to the direction of testing.

S6.2.3. *Lane width.* The lane width is not less than 3.5 m (11.5 ft).

S6.3. *Vehicle conditions.*

S6.3.1. The test weight for maximum speed is unloaded vehicle weight plus a mass of 78 kg (170 pounds), including driver and instrumentation.

S6.3.2. No adjustment, repair or replacement of any component is allowed after the start of the first performance test.

S6.3.3. *Tire inflation pressure.* Cold inflation pressure is not more than the maximum permissible pressure molded on the tire sidewall.

S6.3.4. *Break-in.* The vehicle completes the manufacturer's recommended break-in agenda as a minimum condition prior to beginning the performance tests.

S6.3.5. *Vehicle openings.* All vehicle openings (doors, windows, hood, trunk, convertible top, cargo doors, etc.) are closed except as required for instrumentation purposes.

S6.3.6. *Battery powered vehicles.* Prior to beginning the performance tests, propulsion batteries are at the state of charge recommended by the manufacturer or, if the manufacturer has made no recommendation, at a state of charge of not less than 95 percent. No further charging of any propulsion battery is permissible.

S7. *Test procedure.* Each vehicle must meet the performance limit specified in S5(a) under the following test procedure. The maximum speed performance is determined by measuring the maximum attainable vehicle speed at any point in a distance of 1.6 km (1.0 mile) from a standing start and repeated in the opposite direction within 30 minutes.

[63 FR 33216, June 17, 1998, as amended at 68 FR 43972, July 25, 2003; 79 FR 19249, Apr. 7, 2014; 81 FR 90521, Dec. 14, 2016; 87 FR 34810, June 8, 2022]

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