



SURFACE VEHICLE STANDARD

J99™**JUN2024**

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Superseding J99 MAR2011

Lighting and Marking of Industrial Equipment on Highways

RATIONALE

This document was previously stabilized but was determined as useful and worth updating.

Add SAE J586, SAE J1029, SAE J1967, SAE J2040, and SAE J2261 to references. Remove cancelled documents SAE J725 and SAE J943.

Add ANSI/ASAE S276, S277, S279, and ISO 12509 as related publications.

Reformatted Section 4, adding subsection titles.

Added Requirement for Side Marking as section 4.5.

Vibration test requirements for off-road machinery applications need to be added, but their appropriate place is in SAE J94 and SAE J95. Automotive vibrations specifications are on vertical axis only and cover milder acceleration values than what is appropriate for off-road machinery. Dust test specifications will be added as well.

1. SCOPE

To provide specifications for lighting and marking of industrial wheeled equipment whenever such equipment is operated or traveling on a highway.

2. REFERENCES

2.1 Applicable Documents

The following publications form a part of this specification to the extent specified herein. Unless otherwise indicated, the latest issue of SAE publications shall apply.

2.1.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or +1 724-776-4970 (outside USA), www.sae.org.

SAE J94 Combination Tail and Floodlamp for Industrial Equipment

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Full document details: SAE J99_202406

For more information on this standard, visit https://www.sae.org/standards/content/J99_202406

Documents

Sharing Hub

SAE J95	Headlamps for Industrial Equipment
SAE J585	Tail Lamp (Rear Position Lamp) for Use on Motor Vehicles Less than, Equal to, or Greater than 2032 mm in Overall Width
SAE J586	Stop Lamps for Use on Motor Vehicles Less than 2032 mm in Overall Width
SAE J594	Reflex Reflectors
SAE J1029	Lighting and Marking of Construction, Earthmoving Machinery
SAE J1967	Retroreflective Materials for Vehicle Conspicuity
SAE J2040	Tail Lamps (Rear Position Lamps) for Use on Vehicles 2032 mm or More in Overall Width
SAE J2261	Stop Lamps and Front- and Rear-Turn Signal Lamps for Use on Motor Vehicles 2032 mm or More in Overall Width

2.2 Related Publications

The following publications are provided for information purposes only and are not a required part of this SAE Technical Report.

2.2.1 ANSI/ASABE Publications

Available from either ASABE, 2950 Niles Road, St. Joseph, MI 49085-9659, Tel: 269-429-0300, www.asabe.org or from ANSI, copies of these documents are available online at <https://webstore.ansi.org/>.

ANSI/ASAE S276 Slow-Moving Vehicle Identification Emblem (SMV Emblem)

ANSI/ASAE S277 Mounting Brackets and Socket for Warning Lamp and Slow-Moving Vehicle (SMV) Identification Emblem

ANSI/ASAE S279 Lighting and Marking of Agricultural Equipment on Highways

2.2.2 ISO Publications

Copies of these documents are available online at <https://webstore.ansi.org/>.

ISO 12509 Earth-moving machinery and rough-terrain trucks - Lighting, signaling and marking lights, and reflex-reflectors

3. DEFINITIONS

3.1 INDUSTRIAL WHEELED EQUIPMENT

Class of tractors and associated equipment used in operations such as landscaping, construction services, loading, digging, grounds keeping, and highway maintenance.

3.2 PROPELLING MACHINES

Tractors or self-propelled units.

3.3 TOWED, SEMIMOUNTED, AND MOUNTED EQUIPMENT

Equipment used in conjunction with propelling machines defined in 3.1 and 3.2.