

# Equivalent Single Axle Load

Yi-Tong Ma

*6. Design Input—Equivalent Single Axle Loads* Standardized vehicle loadings used in highway design are termed “equivalent single axle loads” (ESALs), i.e., the pavement structure will be subjected to a specific number of ESALs during ... **What is ESAL? Guide to equivalent single axle loads** May 16, 2024 · Equivalent single axle load (ESAL) provides a means by which the accumulative traffic load on a road pavement, resulting from multiple vehicle types with different axle ... *Equivalent Single Axle Load - Pavement Interactive* The most commonly used equivalent load in the U.S. is the 18,000 lb (80 kN) equivalent single axle load (normally designated ESAL). **Loads - hawaiiiasphalt.org** Equivalent single axle loads (ESALs). This approach converts wheel loads of various magnitudes and repetitions ("mixed traffic") to an equivalent number of "standard" or "equivalent" loads ... *Comprehensive Truck Size and Weight (TS&W) Study 1.0 ...* By convention, an 18,000-pound single axle is 1.00 ESAL. The ESAL values for other axles express their effect on pavement wear relative to the 18,000-pound single axle. **Microsoft PowerPoint - 2009 Pavement Design** CL, CH, ML, MH, CM, OL, OH soils are often in this category. Loads are characterized in a number of ways. Loads are typically quantified using the Equivalent Single Axle Load (ESAL). ... *Calculation of Equivalent Single-Axle Load (ESAL)* May 25, 2025 · It converts the damaging effect of various axle loads into an equivalent number of standard 80 kN (18,000 lb) single-axle loads. The formula used here is a simplified ... **What Is Esal In Pavement Design** Jul 9, 2025 · ESAL, or Equivalent Single Axle Load, is a standardized term used in highway engineering to quantify the damage caused by varying axle loads on pavement structures. **General Axle Load Equivalency Factors** For convenience, AFs have been related to a standard axle load of 80 kN ( 18,000 lb) carried by a single axle with dual tires called the equivalent single-axle load (ESAL). *CST\_TIPS\_053QTR\_FlexPaveDesFAQ* For these sections, truck traffic will tend to use the inner lanes more often than the two-lane scenario, thus reducing the accumulation of loads on any one lane.

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