

الهيئة السعودية للمواصفات والمقاييس والجودة

Saudi Standards, Metrology and Quality Org (SASO)



SASO / DS / 33880

المتطلبات العامة لأسرة النوم في الشاحنات

General requirement for sleeper berth in trucks

ICS : 43.080

THIS DOCUMENT IS A DRAFT SAUDI STANDARDS CIRCULATED FOR COMMENT. IT IS, THEREFORE SUBJECT TO CHANGE AND MAY NOT BE REFERRED TO AS A SAUDI STANDARDS UNTIL APPROVED BY THE BOARD OF DIRECTORS.

مقدمة

قامت الهيئة السعودية للمواصفات والمقاييس والجودة بإعداد المواصفة القياسية السعودية " المتطلبات العامة لأسرة النوم في الشاحنات " بعد استعراض المواصفات القياسية العربية والأجنبية والدولية والمؤلفات المرجعية ذات الصلة.

Foreword

Saudi Standards, Metrology and Quality Organization (SASO) has prepared the Saudi Standard " General requirements for sleeper berth in trucks " based on relevant ADMO, International and National foreign Standards and references.

المتطلبات العامة لأسرة النوم في الشاحنات

General requirement for sleeper berth in trucks

Table of Contents

SCOPE	4
COMPLEMENTARY REFERENCES	4
TERMS AND DEFINITIONS	4
GENERAL REQUIREMENTS	5
REFERENCES.....	8

المتطلبات العامة لأسرة النوم في الشاحنات
General requirement for sleeper berth in trucks

1 Scope

This standard is concerned with the general requirements for sleeper berths in trucks categories N3 to ensure safety, comfort, and proper installation. It applies to tractors of the N3 category, model year 2028 and onward, and covers aspects such as location, dimensions, occupant protection, ventilation, and structural strength.

2 Complementary References

2.1 **SASO GSO 42** “Motor Vehicles – General Requirements”

2.2 **SASO 469** “Motor Vehicles – Dimensions and Weights”

3 Terms and definitions

3.1 For the purposes of this standard, the following terms and definitions are applied:

3.2 **Truck:** A motor vehicle intended for carrying goods, or towing a trailer.

3.3 **Tractor:** A truck (provided with fifth wheel) designed primarily for drawing a semitrailer and not so constructed as to carry a load other than a part of the weight of the semitrailer

3.4 **Trailer:** A vehicle of which, on account of its design, no substantial part of the total weight is supported by the towing vehicle. A semi-trailer with dolly is considered as a trailer

3.5 **Semi-trailer:** A trailer which is designed to be coupled to a tractor by fifth wheel and to impose a part of its total weight on the tractor.

3.6 **Trucks categories N3:** Vehicles designed for transporting goods with a total weight exceeding 12 tons.

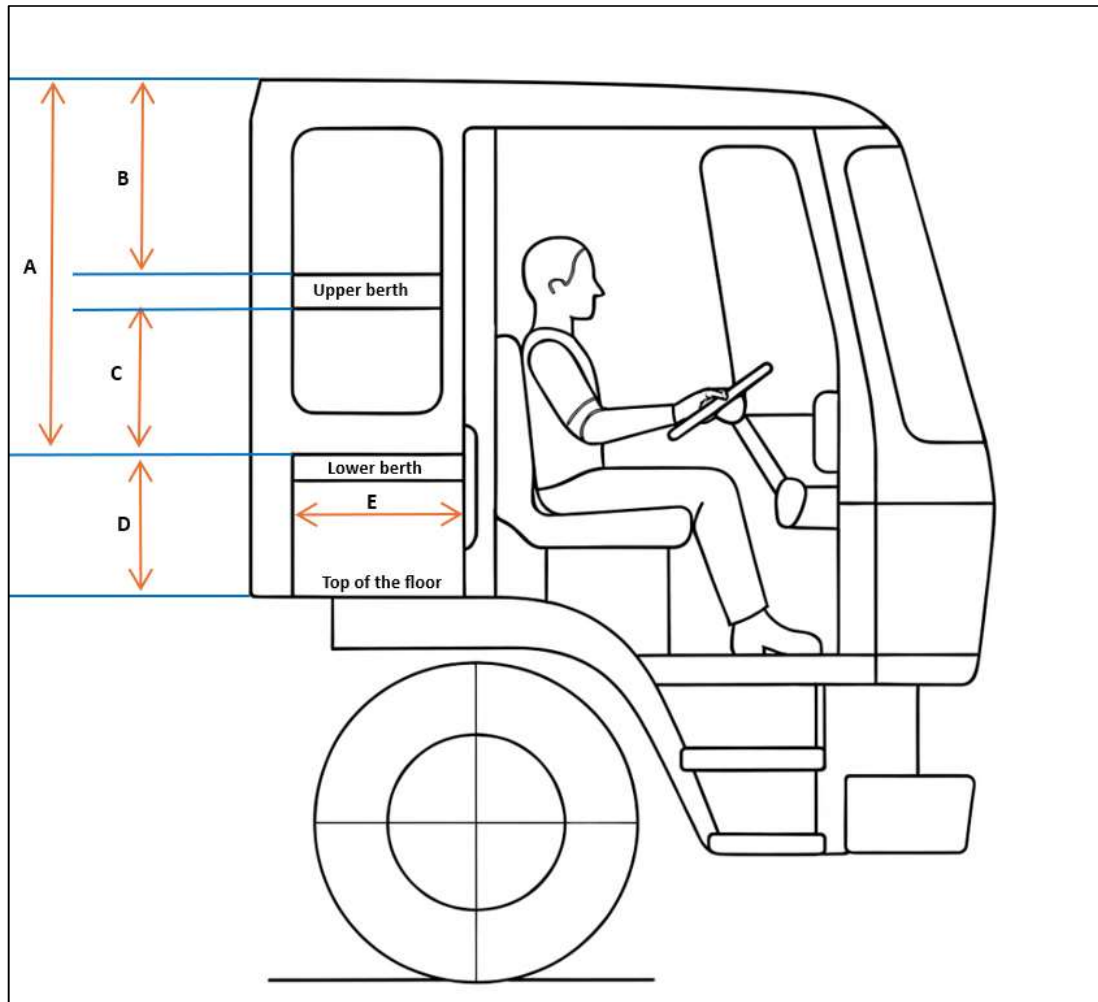
3.7 **Sleeper berth:** A dedicated compartment or space within the driver’s cab of a motor vehicle, designed and constructed to provide a resting or sleeping area for the vehicle’s occupants.

4 General Requirements

- 4.1 All tractors of category N3 shall be equipped with a sleeper berth.
- 4.2 The sleeper berth shall be located within the cab. No sleeper berth shall be permitted in any other area in the truck including cargo area.
- 4.3 Sleeper berth must be equipped with a means of preventing ejection of the occupant of the sleeper berth during deceleration of the vehicle. The restraint system must be designed, installed, and maintained to withstand a minimum total force of 26.7 kN applied toward the front of the vehicle and parallel to the longitudinal axis of the vehicle.
- 4.4 A 'Sleeper Berth' must not be so located as to: permit the ready entrance of gases from the exhaust system; or be overheated or damaged by reason of its proximity to the exhaust system.
- 4.5 A 'Sleeper Berth' must not be so located that defects in the fuel system would result in fuel leakage on or into it.
- 4.6 Every 'Sleeper Berth' must be provided with proper ventilation and be tight against dust and rain.
- 4.7 A sleeper berth must be constructed so that an occupant's ready entrance to, and exit from, the sleeper berth is not unduly hindered.
- 4.8 A single sleeper berth shall meet the following dimensional requirements (Annex A):
 - 4.8.1 The total length of the sleeper berth shall not be less than 1900 mm.
 - 4.8.2 The total width of the sleeper berth shall not be less than 530 mm (E).
 - 4.8.3 The total height between the top of the floor and the top of the berth shall not be less than 600 mm (D).
 - 4.8.4 The distance between the roof and the surface of the berth shall not be less than 900 mm (A).

- 4.9 In cases where twin berths are arranged one above the other, the sleeper berths shall meet the following dimensional requirements (Annex A):
- 4.9.1 The total length of each sleeper berths shall not be less than 1900 mm.
 - 4.9.2 The total width of each sleeper berth shall not be less than 530 mm(E).
 - 4.9.3 The distance between the roof and the surface of the upper berth shall not be less than 490 mm (B).
 - 4.9.4 The minimum pitch between the two berths (measured from top face of the lower berth with uncompressed cushion and lower face of the upper berth) shall be as follows:
 - 4.9.4.1 In case the upper berth is folding type - 490 mm
 - 4.9.4.2 In case the upper berth is fixed type - 770 mm
 - 4.10 All sleeper berths must be capable of supporting a total occupant weight of 250 kg.
 - 4.11 The fire resistance of the bed mattress, its accessories, and the bed bases shall comply with the following requirements:
 - 4.11.1 Resistance to ignition source: smouldering cigarette, as specified in EN 597-1
 - 4.11.2 Resistance to ignition source: match flame equivalent, as specified in EN 597-2
 - 4.11.3 Resistance to ignition source 5, as specified in EN 6807 – Clause 9
 - 4.11.4 The fabric of the bed mattress shall meet the performance requirements specified in Tables (2) and (3) of the European Standard EN 14976.

Annex A
(Informative)



Dimension	Description	Value (mm)
A	The minimum distance between the roof and the surface of the lower berth <u>in case of a single berth only</u>	900 mm
B	The minimum distance between the roof and the surface of the upper berth.	490 mm
C	The minimum distance between two berths, <u>in case of twin berths arranged one above the other.</u>	folding type - 490 mm fixed type - 770 mm
D	The minimum distance between the top of the floor and the top of the lower berth.	600 mm
E	The minimum width of the berth (Lower berth & Upper berth)	530 mm

References

- Title 49, Code of Federal Regulations (CFR), Part 393 – Subpart G – Section 393.76
- Australian Design Rule 42/05 – General Safety Requirements
- AIS-093(Rev.1) & Amds. 1 to 3 and Corri. 1
- SASO GSO 2337

DRAFT