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PEOPLE'S REPUBLIC OF CHINA

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GB/T 12428-2005

Replacing GB/T 12428-1990

Laden mass calculating method for buses

客车装载质量计算方法

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Table of Contents

Foreword.....	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	4
4 Average mass of each passenger and crew, average mass of hand baggage and the baggage other than hand baggage	6
5 Surface area available for each standing passenger.....	7
6 Capacity per unit of baggage and allowable laden mass per unit of roof rack area.....	7
7 Determination of the number of passengers and crew	7
8 Bus laden baggage mass	8
9 Maximum design laden mass of bus	9

Foreword

The modification of this Standard mainly referred to the mandatory bus instruction, which was issued on November 20, 2001 by the European Union, 2001/85/EC "Special provisions for vehicles used for the carriage of passengers comprising more than eight seats in addition to the driver's seat" as well as ECE R36, R52, R107 and related content in standards of ten countries in Europe and America. Considering the characteristics of China's human body and relevant standards, it has been adjusted appropriately.

Compared with GB/T 12428-1990, the main changes and differences in this Standard are as follows:

- the application scope of this Standard is M₂, M₃ buses;
- added and deleted normative references;
- added terms and definitions;
- modified the average calculation mass of each occupant and the height of the passenger standing area [Clause 5 and 7.2.8 of the previous edition, Clause 4 and C in 3.5 of this Edition];
- deleted the calculation equation for loadable goods; added the calculation equation for the maximum design laden mass of passenger bag loading baggage and bus;
- all symbols in this Standard are consistent with relevant international standards.

This Standard replaces GB/T 12428-1990 *Laden mass calculation of buses*.

This Standard was proposed by Ministry of Communications of the People's Republic of China.

This Standard shall be under the jurisdiction of National Technical Committee on Automobile of Standardization Administration of China.

Main drafting organizations of this Standard: Changan University, Guilin Guilian Bus Industry Co., Ltd., Chengdu Bus Co., Ltd., Ningbo Technical College.

Main drafters of this Standard: Shen Fulin, Xie Jinming, Yang Min, Li Weiwei.

Version of standard substituted by this Standard is: GB/T 12428-1990.

Laden mass calculating method for buses

1 Scope

This Standard specifies the average calculating mass of every member of the bus as well as his/her hand baggage and carry-on baggage, the calculating methods for the effective area occupied by each standing passenger, allowable baggage mass per unit of baggage compartment volume and per unit of roof rack area, as well as the number of occupants and passenger baggage laden mass and the maximum design laden mass of bus.

This Standard is applicable to M₂, M₃ buses. Other vehicles shall refer to this Standard for the implementation.

2 Normative references

The following standards contain the provisions which, through reference in this Standard, constitute the provisions of this Standard. For dated references, subsequent amendments (excluding corrections) or revisions do not apply to this Standard. However, the parties who enter into agreement based on this Standard are encouraged to investigate whether the latest versions of these documents are applicable. For undated reference documents, the latest versions apply to this Standard.

GB/T 3730.1-2001, *Motor vehicles and trailers - Types - Terms and definitions*

GB/T 3730.2-1996, *Road vehicle - Masses - Vocabulary and codes*

GB/T 15089-2001, *Classification of power-driven vehicles and trailers*

3 Terms and definitions

For the purposes of this document, the terms and definitions defined in GB/T 3730.1-2001, GB/T 3730.2-1996 and the followings apply.

3.1 passengers and crew

a general name of passengers, drivers and team members on bus

3.2 passengers

- b) the area in front of the vertical plane passing through the center of the seat surface and the center of the exterior mirror installed on the other side of the vehicle (non-driver seat side) when the driver's seat is adjusted to the last position;
- c) the area at the rear axle and the area of which the net height above the lower floor of the following passage and double-decker bus is less than 1770 mm, all area of which the net height in the bus is less than 1850 mm (excluding armrests);
- d) the area of which the floor slope exceeds the allowable value of the relevant standard;
- e) the area of which the protrusion on the floor is higher than 8 mm and cannot accommodate 400mm x 300mm rectangles;
- f) except stepping at the door, any stepping area with a depth of less than 300 mm;
- g) the area of all areas where standing passengers cannot enter when all seats (excluding folding seats) are full;
- h) the upper double-deck bus area;
- i) the area of space occupied by wheelchair area;
- j) the area of other areas not allowed to stand on bus.

3.6 hand baggage

the articles that are carried around by passengers and can be placed on the side or on the inside luggage rack

3.7 the baggage other than hand baggage

other accompanying baggage other than hand baggage carried by passengers

4 Average mass of each passenger and crew, average mass of hand baggage and the baggage other than hand baggage

The average mass of each passenger and crew Q , the average mass of hand baggage M_{w1} and the average mass of the baggage other than hand baggage M_{w2} are calculated according to Table 1 (the hand baggage mass is not calculated for cabin crew members such as driver, attendants, which shall be

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