



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 40887.1-2021

**Wheelchair containment and occupant retention systems for accessible
transport vehicles designed for use by both sitting and standing passengers -
Part 1: Systems for rearward-facing wheelchair seated passengers**

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules of Standardization Documents"

Drafting.

This document is the first part of GB/T 40887 "Wheelchair and occupant limit system for barrier-free passenger cars". GB/T 40887 has

The following sections were released.

---Part 1. Rear-facing wheelchair occupant system.

This document is equivalent to the adoption of ISO 10865-1:2012 "Wheelchair Containment and Ride for Passengers in Sitting and Standing Positions to Convenient Transport Vehicles"

Personnel staying system Part 1. Passenger system in a backward-facing wheelchair".

The Chinese documents that have consistent correspondence with the normatively cited international documents in this document are as follows.

---GB/T 18029.11-2008 Wheelchair Part 11. Test dummy (ISO 7176-11:1992, IDT);

---GB/T 18029.13-2008 Wheelchair Part 13.Determination of Test Surface Friction Coefficient (ISO 7176-13.1989,

IDT);

---GB/T 18029.26-2014 Wheelchair Part 26.Terminology (ISO 7176-26.2007, IDT);

---GB/T 20953-2007 Determination of combustion characteristics of interior materials for agricultural and forestry tractors and machinery (ISO 3795.1989, MOD).

This document has made the following minimal editorial changes.

---In order to facilitate standard users to better understand standard topics, the standard name is changed to

Position System Part 1.Backward Wheelchair Occupant System".

Introduction

The wheelchair and occupant limit system of the barrier-free bus is to provide safety requirements for wheelchairs and passengers in the barrier-free bus.

Set. At present, with the gradual development and improvement of barrier-free facilities in my country, wheelchairs and special space areas for passengers are gradually being used in public transportation.

Increasingly, it is particularly important to regulate the design and installation of wheelchairs and occupant limit systems. There are currently no

The wheelchair and occupant limit system of handicapped buses are mainly divided into two types, one is the rear-facing wheelchair occupant system, and the other is the forward-facing wheel.

Chair car occupant system. Therefore, GB/T 40887 "Wheelchair and occupant limit system for barrier-free passenger cars" is planned to be composed of two parts, aiming to confirm

The design and production of wheelchairs and occupant limit systems for barrier-free buses are required.

---Part 1.Rear-facing wheelchair occupant system.

---Part 2.Forward-facing wheelchair occupant system.

Wheelchair car and occupant limit system of barrier-free passenger car

Part 1.Rear-facing wheelchair occupant system

1 Scope

This document is applicable to wheelchair occupant spaces used by rear-facing wheelchair occupants with a weight greater than 22kg on barrier-free passenger vehicles

(RF-WPS). It is a system suitable for vehicles traveling on a fixed route under normal and emergency driving conditions. Passengers can be seated and

Standing position. The prerequisite of this standard is that the maximum acceleration of the vehicle in any direction under emergency driving conditions does not exceed 1g.

This document specifies the design requirements, performance requirements and related test methods of the rear-facing wheelchair occupant system, the manufacturer's instructions

Requirements, warning information requirements for installers and users, as well as product labeling and test information requirements.

The main purpose of this document is to restrict rear-facing wheelchairs, including scooters with three or more wheels, which may cause dangerous collisions inside the vehicle.

A movement that hits or causes injury to other passengers.

The provisions of this document mainly apply to the complete RF-WPS, but the specified sub-clauses can be applied to separately sold parts and components.

It also applies to the specific functions of the parts and components to be replaced.

2 Normative references

The content of the following documents constitutes an indispensable clause of this document through normative references in the text. Among them, dated quotations

Only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to

This document.

ISO 3795 Determination of combustion characteristics of road vehicles, agricultural and forestry tractors and machinery interior materials (Road vehicles, and tractors

and machinery for agriculture and forestry-Determination of burning behaviour of interior materials)

ISO 7176-11 Wheelchair Part 11. Test Dummies (Wheelchairs-Part 11. Test dummies)

ISO 7176-13 Wheelchairs Part 13. Determination of the coefficient of friction of test surfaces (Wheelchairs-Part 13.

Determination of coefficient of friction of test surfaces)

ISO 7176-26 Wheelchairs Part 26. Terminology (Wheelchairs-Part 26. Vocabulary)

3 Terms and definitions

The terms and definitions defined in ISO 7176-26 and the following apply to this document.

3.1

Ambulatory passengers

Passengers who do not need to use a wheelchair.

3.2

Forward barrier; FEB

A cushion structure designed to restrict the backward movement of wheelchairs and occupants relative to the vehicle.

3.3

Gross vehicle weight rating; GVWR

Determined by the vehicle manufacturer, the maximum total weight at which the vehicle can travel safely and reliably.