

ICS 11.180
CCS C 30



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

GB/T 40887.2-2022

**Wheelchair containment and occupant retention systems for accessible
transport vehicles designed for use by both sitting and standing passengers -
Part 2: Systems for forward-facing wheelchair seated passengers**

Issued on: October 14, 2022

Implemented on: February 1, 2023

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

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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" drafted.

This document is Part 2 of GB/T 40887 "Wheelchair Vehicles and Passenger Restriction Systems for Barrier-Free Passenger Cars". GB/T 40887 has

The following sections were published.

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

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

This document is equivalent to ISO 10865-2:2015 "Wheelchair vehicles and passenger restraint systems for barrier-free passenger vehicles - Part 2. Forward-facing wheelchair Car Occupant System."

The following minimal editorial changes have been made to this document.

--- Added the description of the symbols in formula (1);

--- Added the description of the index number for Figure C.1 and Figure C.2.

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

Introduction

The wheelchair vehicle and passenger restraint system of the barrier-free bus is a device that provides safety requirements for wheelchair vehicles and passengers in the barrier-free bus.

set. At present, with the gradual development and improvement of barrier-free facilities in

my country, wheelchair vehicles and passenger-only space areas in public transportation are gradually becoming more and more popular.

It is particularly important to standardize the design and installation of wheelchairs and passenger restraint systems. At present, there are no domestic and foreign

There are two main types of wheelchair and occupant restraint systems for handicapped passenger cars, one is a rear-facing wheelchair occupant system, and the other is a forward-facing wheelchair system.

Chair car occupant system. Therefore, GB/T 40887 "Wheelchair Vehicles and Passenger Restriction Systems for Barrier-Free Passenger Vehicles" is planned to be composed of two parts, aiming to ensure

Requirements for the design and production of wheelchairs and passenger restraint systems for barrier-free passenger cars.

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

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

Wheelchair and passenger restraint system for barrier-free passenger cars

Part 2.Forward-facing wheelchair occupant systems

1 Scope

This document specifies the design requirements, performance requirements and related test methods, information, markings and descriptions of forward-facing wheelchair occupant systems.

Statement requirements, test reports and declaration requirements.

This document applies to wheelchairs weighing more than 22kg in accessible coaches that travel on fixed routes and transport seated and standing passengers

The space used for the vehicle occupant to ride facing forward. The prerequisite for this document is the maximum acceleration of the vehicle in any direction in emergency driving conditions

Not more than 1g, and the acceleration rarely exceeds 3g in a frontal collision. In this document, the term "wheelchair" includes both manual wheelchairs and electric wheelchairs

cars, as well as three- and four-wheel scooters.

This document applies primarily to the full forward-facing wheelchair occupant space (FF-WPS), but specified sub-clauses may apply to separate

parts and assemblies sold, as well as intended replacement parts and assemblies for a

specific function.

2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, dated citations

documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to this document.

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

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

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

Note. GB/T 18029.13-2008 Wheelchair Part 13.Determination of the coefficient of friction of the test surface (ISO 7176-13.1989, IDT)

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

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

3 Terms and Definitions

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

3.1

The position of the accelerator relative to the wheelchair reference point.

3.2

gers; ATV-SS

Motor vehicles designed and manufactured primarily for the transportation of seated and standing passengers, taking into account the needs of wheelchair occupants during travel.

3.3

ambulatorypassengers

Passengers who do not need a wheelchair.