

ICS 55.180.10

CCS R 13



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

GB/T 12419-2025

Replacing GB/T 12419-2005

**Level classification, equipment configuration ,and construction
requirements of container highway transit stations**

集装箱公路中转站级别划分、设备配备及建设要求

Issued on: August 1, 2025

Implemented on: November 1, 2025

**Issued by: State Administration for Market Regulation;
Standardization Administration of China**

Table of Contents

1 Scope	1
2 Normative references	1
3 Terms and Definitions	1
4 Main Functions	2
5 Basic principles of site selection	2
6 Level Division	2
7 Building facilities composition and construction requirements	4
12 Reference	13

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 for standardization documents" Drafting. This document replaces GB/T 12419-2005 "Classification, Equipment and Construction Requirements for Container Highway Transfer Stations" and is in compliance with GB/T 12419- Compared with.2005, in addition to structural adjustments and editorial changes, the main technical changes are as follows:

a) The definitions of the terms "standard container", "annual container transport volume", "annual container storage volume" and "flat container space area" have been changed (see 3.1, 3.2, 3.3, 3.5, 3.1, 3.2, 3.3, and

3.6 of the.2005 edition);

b) The definition of the term "annual deconsolidation volume" has been deleted (see 3.4 of the.2005 edition);

c) The level conditions have been changed, and the requirements for facilities and equipment configuration of container highway transfer stations of different levels have been added (see 6.2,.2005 Version 6.2);

d) The requirements for major building facilities, container yards, production support and living service facilities, parking lots, and station roads have been changed (see Chapter 7, Chapter 8 of the.2005 edition);

e) Changed the requirements for transport vehicles, information management systems, metering equipment, safety and firefighting equipment (see 8.1, 8.6, 8.7, 8.8, 2005 edition

7.1, 7.6, 7.7, 7.8);

f) Added requirements for container intelligent identification equipment (see 8.9);

g) The nature of the appendix "Container Conversion Units" has been changed to informational, the content of container conversion units has been changed, and non-Conversion units of standard containers (see Appendix A, Appendix A of the.2005 edition);

h) The nature of the appendix "Calculation method of main building facilities area" has been changed to informational, and the formula of B.7 plane box number has been added. The meaning of D and T, and the value of the Kg coefficient (see Appendix B and Appendix C of the.2005 edition);

i) The nature of the appendix "Calculation Method of Major Equipment Requirements" has been changed to be informative (see Appendix C, Appendix B of the.2005 edition). Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents. This document was proposed by the National Technical Committee for Standardization of Containers (SAC/TC6). This document is under the jurisdiction of the National Technical Committee for Road Transport Standardization (SAC/TC521). This document was drafted by: Anhui Transportation Holding Group Co., Ltd., Ministry of Transport Science and Technology Research Institute, Anhui Xunjie Logistics Co., Ltd. Company, Anhui Gongsheng Logistics Technology Co., Ltd., China Railway Tielong Container Logistics Co., Ltd., Ministry of Transport Water Transport Science Research Institute, Anhui Zhongbiao Intelligent Quality Standard Research Institute Co., Ltd. The main drafters of this document are. Duan Haipeng, Xu Lin, Li Yamin, Wang Jing, Shi Yanlei, Shen Xu, Zhang Chunrong, Diao Kai, Xia Xiulin, Wang Yaping, Liu Yu, Li Jichun, Geng Tianlin, and Lu Lixin. The previous versions of this document and the documents it replaces are as follows:

---First published in.1990 as GB/T 12419-1990 "Classification and Equipment Configuration of Container Highway Transfer Stations";

1 Scope

GB/T 12419-2025 is the Chinese national standard on level classification, equipment configuration ,and construction requirements of container highway transit stations, in the field of packaging and distribution of goods. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 1 August 2025 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 November 2025. Classification: ICS 55.180.10, CCS R 13. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the

numeric limits are in the document itself, which is delivered complete in English translation.

This document stipulates the main functions, basic principles of site selection, level division, building facilities composition and construction requirements of container highway transfer stations, Device configuration and calculation methods. This document applies to the planning, construction and level approval of container highway transshipment stations.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

GB/T 13145 Technical management requirements for refrigerated container yards

GB 13495.1 Fire safety signs Part

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 TEU (twenty-feet equivalent unit) A unit of container statistics conversion based on a 20ft1 container.

Note. For the length conversion method between various types of containers and standard container conversion units, please see Appendix A. [Source: GB/T 8487-2010, 9.2.1, modified] 1) 1ft=12in=0.3048m.

3.2 The total number of standard containers (TEUs) arriving and departing through container road transshipment stations during the year.

3.3 The total number of standard containers (TEUs) stored at container highway transshipment stations during the year.

3.4 Flat box slot The number of TEUs that can be stacked on the container yard surface.