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Classification and Planning
Fundamental Requirements of Logistics Center
物流中心分类与规划基本要求

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Classification and Planning Fundamental Requirements of Logistics Center

1 Scope

This Standard specifies the classification and general planning requirements of logistics center, as well as the planning requirements of warehouse, road, yard, parking lot, railway line, dedicated wharf, information platform and the like facilities.

This Standard is applicable to the definition of logistics centre and the planning design of the logistics center.

2 Normative References

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this document.

GB/T 18354-2006 Logistics Terms

GB/T 28581 General Warehouse and Warehouse Area Design Parameter

GB 50009 Load Code for the Design of Building Structures

GB 50016 Code of Design on Building Fire Protection and Prevention

GB 50072 Code for Design of Cold Store

3 Terms and Definitions

For the purpose of this document, the terms and definitions given in GB/T 18354-2006 apply. For the benefit of use, some terms and definitions given in GB/T 18354-2006 are listed as follows:

3.1 Logistics center

The place or organization that is engaged in the logistics activities and has a well-

5.5 The functional area of logistics center generally includes the operation area, administrative office, and living service area; the operation area shall be set separately from the administrative office and the living service area. The different types of logistic centers can build corresponding functional areas according to the type and flow frequency of the incoming and outgoing goods; rationally set the layout of the functional area, ensuring the smooth realization of their main functions and achieving orderly flow of goods and optimal allocation of resources. However, the total land area of the supporting administrative office and the living service facilities shall not exceed 10% total floor area of the logistics center.

5.6 Calculate the proportion of floor areas of administrative office and living service facilities as per the Formula (1):

$$R = \frac{A_x}{A_t} \times 100\% \quad \text{..... (1)}$$

Where:

R – the proportion of the floor areas of the administrative office and the living service facilities;

A_x – the floor areas of the administrative office and living service facilities, in m^2 ;

A_t – the total area of the center, in m^2 .

5.7 When it is impossible to calculate the floor areas of administrative office and living service facilities, respectively; it can be replaced by the allocated land area obtained through calculating the building areas of administrative office and living service facilities accounting for the total building area.

5.8 The plot ratio of the logistics center shall be no less than 0.6; the plot ratio shall be calculated as per the Formula (2). For the building with height more than 8m, when calculating the plot ratio, the building area shall be doubled:

$$PR = \frac{A_c}{A_t} \quad \text{..... (2)}$$

Where:

PR – the plot ratio of the logistics center;

A_c – the total building area within the range of the project land, in m^2 ;

A_t – the total land area of the project, in m^2 .

logistics operations such as specific cargo transportation, warehousing, loading/unloading; and conform to the provisions of relevant national laws, regulations and standards.

6.2 Warehouse

6.2.1 The planning and design of the warehouse shall be carried out according to the following factors such as investment scale, warehouse plot ratio, cargo type, packaging method, operation flow, operation frequency, shelf type, working machinery and ground load, etc.; it shall meet the requirements of GB/T 28581.

6.2.2 The design of warehouses in different types of logistics center shall conform to the corresponding standards. The heat room shall have good sealing properties, good ventilation function and maintain relatively stable air composition; while the design of the cold room shall meet the requirements of GB 50072.

6.2.3 It must have necessary functional features such as anti-wind, anti-snow, anti-earthquake, rain-proof, lightning-proof, fire protection, and burglary-proof; and install necessary monitoring facilities as needed.

6.2.4 The internal passage of the warehouse shall be designed according to the following requirements such as packaging size of the stored goods, the technical performance of the handling equipment, and the spatial position of the internal facilities. It shall minimize the area occupation and operation detours while meeting the requirements of internal operation.

6.2.5 It can set, according to the requirements, the special circulation processing function zones or special processing zones; the design and planning of which shall conform to the provisions of relevant national regulations and standards.

6.2.6 It can be equipped with a fixed or mobile loading/unloading platform as required.

6.3 Roads within the logistics center

6.3.1 It shall meet the requirements of vehicle access and safe driving, and conform to the national road planning and design standards. It should meet the operational requirements of the main vehicle models entering and leaving the logistics center; the special logistics center of specialized products shall meet the traffic requirements of special vehicles.

6.3.2 The roads for cargo transportation should be separated from the road of life and work.

6.3.3 When erecting pipeline racks or other facilities above the roads within the logistics center, the height from the ground shall be no less than 5m.

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