



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

GB 50243-2016

Replacing GB 50243-2002

**Code of Acceptance for Construction Quality of Ventilation and
Air**

通风与空调工程施工质量验收规范

(English Translation)

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Explanation of wording in this code

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1.0.1

This code is developed with a view to unifying the quality acceptance for construction of ventilation and air conditioning and guaranteeing the work safety and quality.

1.0.2

This code is applicable to construction quality acceptance of the ventilation and air conditioning for industrial and civil buildings.

1.0.3

This code shall be used in conjunction with the current national standard GB 50300 Unified Standard for Constructional Quality Acceptance of Building Engineering.

1.0.4

The requirements for constructional quality of work which are specified for ventilation and air conditioning works in engineering technical document and work contract shall not be lower than those specified in this code.

1.0.5

The construction quality acceptance for ventilation and air conditioning works shall comply with not only this code but also the current relevant standards of the nation.

2.0.1 ventilation works

generic term for air supply, air exhaust, smoke control/exhaust, dedusting and pneumatic conveying system works

2.0.2 air conditioning works

generic term for comfort air conditioning, constant temperature and humidity air conditioning, cleanroom air purification and air conditioning system works

2.0.3 duct

duct, made from metallic, nonmetallic sheet or other material, for ventilation.

2.0.4 nonmetallic duct

duct made from such nonmetallic materials as rigid PVC and glass reinforced plastic (GRP)

2.0.5 foil-insulant composite duct

duct with incombustible surface course, made from thermal insulation material of flame resisting grade or above

2.0.6 refractory duct

duct made from composite incombustible and fire-resistant thermal insulation materials and reaching a specific fire endurance limit

2.0.7 duct fittings

components of duct system, e.g. elbow, tee, cross, special pipe, guide vane and flange

2.0.8 duct accessory

functional parts of duct system, e.g. vent, valve, hood, cowl, silencer, air filter, inspection door and determination hole

2.0.9 air channel

channel, made from such building materials as concrete and brick, for ventilation.

2.0.10 ventilating ducts for kitchen and bathroom

channels for discharging the fume generated by cooking appliance from kitchen and foul gas from bathroom in residential building

2.0.11 design working pressure

maximum design working pressure at the main duct of system

2.0.12 air leakage rate

air volume discharged from or infiltrated into the duct system under a certain static pressure over a unit time, through the main structure or joint of duct.

2.0.13 duct system permissible leakage rate

maximum permissible air leakage as per the average unit surface area and unit the specified according to the classification of duct system

2.0.14 duct system leakage ratio

percentage ratio of the air leakage at working pressure, e.g. duct system, air conditioning equipment, deduster, to the rated air flow

2.0.15 jiggle protection support

supports and hangers or pipe racks protecting duct or conduit from jiggling displacement

2.0.16 strength test

determination and inspection on pressure resistance, e.g. pipeline, vessel, valve, carried out at specified pressure and within specified pressure holding time

2.0.17 leakage test

determination and inspection on leakage resistance, e.g. pipeline, vessel, valve, carried out at specified pressure and within holding time

2.0.18 absorption refrigeration device

refrigeration device which is thermally driven and use ammonia-water or water-lithium bromide as refrigerating medium

2.0.19 air cleanliness class

cleanliness level determined by the counts of particles of some size in unit volume of air

2.0.20 fan filter unit

cellular air supply unit for space cleaning which is composed of fan case and high efficiency filter, etc.