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

GB 50345-2012

Replacing GB 50345-2004

Technical Code for Roof Engineering

屋面工程技术规范

(English Translation)

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1.0.1

This Code is formulated in order to promote the roof engineering level in China, ensure quality, and make the roof engineering of economic feasibility, safety & usability, environmental protection and energy conservation.

1.0.2

This standard is applicable to the design and construction of roof engineering in building construction.

1.0.3

The design and construction of roof engineering shall comply with the relevant requirements of the nation on environmental protection, building energy conservation, fire safety and so on, and be prepared with corresponding measures.

1.0.4

The design and construction of roof engineering shall meet the requirements of the current relevant standards of the nation besides this Code.

2.0.1 Roof project

Design and construction of building roof composed of structural layers such as water proofing, thermal insulation, heat insulation and so on

2.0.2 Vapor barrier

Structural layer that prevents indoor vapor permeating into insulation layer

2.0.3 Thermal insulation layer

Structural layer that reduces heat exchange on roof

2.0.4 Waterproof layer

Structural layer that isolates water from permeating into building inside

2.0.5 Isolation layer

Structural layer that eliminates adverse effects like adhesive force, mechanical snap-in force and chemical reaction between two adjacent materials

2.0.6 Protection layer

Structural layer that protects waterproof layer or thermal insulation layer

2.0.7 Insulation layer

Structural layer that reduces transmission of solar heat into interior

2.0.8 Compound waterproof layer

Waterproof layer composed of sheets and coating compatible with each other

2.0.9 Additional layer

Sheet or film reinforcement layer arranged on position vulnerable to leak or breakage

2.0.10 Waterproof cushion

Structural layer that functions water- and damp-proofing under tiling or metal sheet

2.0.11 Nail-supporting layer

Structural layer of tile roof that hold fixing nails

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