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Flexible tile for decoration

柔性饰面砖

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Flexible tile for decoration

1 Scope

This standard specifies the terms and definitions, classification and marking, requirements, test methods, inspection rules, marking, packaging, transportation, storage and accompanying documents of flexible tiles for decoration.

This standard applies to flexible tiles for wall decoration of industrial and civil buildings. It is mainly suitable for the finishing layer of the external thermal insulation system of the external wall. The application of other occasions may refer to this standard.

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) is applicable to this standard.

GB/T 191 Packaging - Pictorial marking for handling of goods (GB/T 191-2008, ISO 780:1997, MOD)

GB/T 1766 Paints and varnishes - Rating schemes of degradation of coats

GB/T 1865 Paints and varnishes - Artificial weathering and exposure to artificial radiation - Exposure to filtered xenon-arc radiation (ISO 11341:1994, EQV)

GB/T 2918 Plastics - Standard atmospheres for conditioning and testing

GB/T 3810.2-2006 Test methods of ceramic tiles - Part 2: Determination of dimensions and surface quality

GB/T 6388 Transport package shipping mark

GB/T 6682-2008 Water for analytical laboratory use - Specification and test methods (ISO 3696:1987, MOD)

GB 8624-1997 Classification on burning behavior for building materials

GB/T 9265 Determination for alkali resistance of film of - Architectural paints

and coatings

GB/T 9780-2005 Test method for dirt pickup resistance of film of architectural coatings and paints

GB/T 17146-1997 Test methods for water vapor transmission of building materials

GB 50210-2001 Code for construction quality acceptance of building decoration

JG/T 25-1999 Determination for freeze-thaw resistance of film of building coatings

3 Terms and definitions

The following terms and definitions apply to this document.

3.1

Flexible tile for decoration

A lightweight decorative tile with a certain flexibility which uses high molecular polymers and inorganic non-metallic aggregates as the main raw materials, through a certain production process.

4 Classification and marking

4.1 Classification

According to the combustion performance, it is divided into ordinary type and flame-retardant type. According to the artificial aging resistance and stain resistance, it is divided into level I and level II.

4.2 Marking

4.2.1 Code

Ordinary type, code G; flame-retardant type, code FR.

4.2.2 Marking

Products are marked in the following order: product name, classification, standard number.

Example: Level I flame-retardant flexible tiles for decoration are marked as:

Test according to the requirements of water method in GB/T 17146-1997; it shall meet the following requirements:

- a) The effective measuring area of the breathable cup is at least 25 cm²;
- b) The test temperature is (23 ± 2) °C; the test relative humidity is $(50 \pm 2)\%$;
- c) The surface of the specimen faces the side with low humidity.

6.14 Combustion performance

Test according to the provisions of 5.1 in GB 8624-1997.

7 Inspection rules

7.1 Exit-factory inspection

Each batch of products shall undergo exit-factory inspection. The inspection items include surface quality, color difference, dimensional deviation, apparent density, water absorption, alkali resistance, flexibility.

7.2 Type inspection

Type inspection shall include all items specified in Chapter 5. Type inspection shall be carried out in the following situations:

- a) Under normal production conditions, the type inspection is once a year;
- b) When the trial production of new product is subject to type finalization;
- c) When changes in product raw materials and large changes in process may affect product performance;
- d) When the product resumes production after six months of suspension;
- e) When the exit-factory inspection results are significantly different from the last type inspection;
- f) When the national quality supervision agency puts forward a requirement for type inspection.

7.3 Group-batching and sampling rules

7.3.1 Group-batching

Take 3000 m² of products of the same variety, same specification and same color as one batch; those less than 3000 m² is considered as a batch.

8.1.1 Each product shall be marked with product mark, production or installation direction, factory name and address, trademark, batch number, production date and quality inspection qualification mark.

8.1.2 The product shall be packed in a packing box; its packaging mark shall comply with the provisions of GB/T 191 and GB/T 6388. The following signs shall be displayed on the obvious part of the packing box:

- a) Enterprise name;
- b) Product name;
- c) Product specifications;
- d) Color;
- e) Production batch number;
- f) Quantity packed inside;
- g) Implemented standards;
- h) Quality inspection qualification mark.

8.2 Packaging

8.2.1 The packaging box shall have sufficient strength to ensure that it will not be damaged during transportation, handling and stacking. Each batch of products shipped shall have a product certificate and instruction manual.

8.2.2 There shall be a product certificate and packing list in the packing box.

8.2.2.1 The following content shall be included on the certificate:

- a) Enterprise name;
- b) Production batch number;
- c) Inspection results;
- d) Inspection department or personnel code;
- e) Date of inspection.

8.2.2.2 The packing list shall include the following contents:

- a) Enterprise name;
- b) Product name and color;

Appendix A

(Informative)

Key points of construction technology of flexible tile for decoration

A.1 Mobilization acceptance

A.1.1 Before construction, materials such as flexible tiles for decoration, adhesives, jointing agents shall be subject to mobilization acceptance.

A.1.2 After the acceptance, the leveling, bonding and jointing materials shall be tried out; small-area trial attaching shall be carried out. Large-area construction can only be carried out after passing the inspection.

A.2 Construction conditions

The construction environment temperature should not be lower than 5 °C, nor higher than 40 °C. Avoid rain and hot sun exposure during outdoor construction.

A.3 Construction procedures

A.3.1 Base treatment and acceptance

Before construction, it is necessary to check and accept the concealed works such as the pasted base, embedded parts, connection joints, waterproof layer. All leveling parts of the pasted bases must be, after leveling, flat, free of chalking, oil stains, sand protrusions. The allowable deviation and inspection method of the base quality shall meet the requirements of the corresponding standard for ordinary plastering in the GB 50210-2001 General plastering engineering.

A.3.2 Trial layout and line marking

- a) According to the design requirements and construction model, carry out trial layout; determine the width of the joints; the whole block should be used for grid division and trial layout. For parts where non-whole bricks must be used, the width of non-whole bricks should not be less than 1/3 of the width of the whole brick;
- b) Taking the specifications and dimensions of the flexible tiles for decoration as the standard, mark the vertical and horizontal lines as the pasting control lines according to the trial layout effect and the multiple of the whole block.

A.3.3 Paste

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