

## Approval & Reception Procedure

CA - Coordination and Technical Support	
<b>Exterior Wall Coating Systems</b>	Document no. <b>ARP/CA/04</b>
	Rev. no. <b>A</b>
	Date: <b>26.05.2022</b>
	Page no. <b>1 of 2</b>

### 1 Reference standards/publications

The reference standards are:

- Project specifications
- GB 50210-2001: 建筑装饰装修工程施工质量验收规范 Code for Construction Quality Acceptance of Building Decoration
- ISO 2808:2019: Paints and varnishes — Determination of film thickness
- HKCI:TM1: Detection of Building Surface Defect by Infrared Thermography
- CECS 204-2006: 红外热像法检测建筑外墙饰面层粘结缺陷技术规程 Technical specification for inspecting the defects of exterior walls cementing coats of building using infrared thermograph method
- ARP/DMC/04: 防水膜 Waterproof Membrane

### 2 Approval Procedure

Proposal of paint system: including number of coats and nominal dry film thickness of each coat.

For approval of the proposed materials, the following basic information of paintwork should be considered:

- Design specification of complete coating system, including:
  - Paint materials
  - Constituent elements
  - Type of substrate
  - Material catalogues and technical data sheets
- Original or a certified true copy of ISO 9001 and ISO 14001 certifications of the manufacturing plants.
- Original or certified true copy of test reports showing compliance of the rendering material with declared properties as indicated in the respective material catalogues and data sheets.
- Original or certified true copy of test reports showing compliance of paint materials with declared properties as indicated in the respective material catalogues and data sheets.

## Approval & Reception Procedure

CA - Coordination and Technical Support	
<b>Exterior Wall Coating Systems</b>	Document no. <b>ARP/CA/04</b>
	Rev. no. <b>A</b>
	Date: <b>26.05.2022</b>
	Page no. <b>2 of 2</b>

- Waterproofing material evaluation shall be performed in accordance with ARP/DMC/04.

Before works start on site, the Contractor is required to lay a sample panel (with dimensions to be agreed between all involved parties) including the complete external wall system, and perform dry film thickness of each coating layer and waterproofing layer. Works should only start after approval of the sample panel and conformity of tests results with project requirements is assessed.

### 3 Reception Procedure

Inspection of paintwork: Inspection results of substrate preparation, application of coatings and cured paint should be recorded.

One thickness test shall be made per each 500 to 1000 m<sup>2</sup> of coated external wall area.

After cleaning and removal of the scaffolding, it is recommended that the infrared imager test be performed in areas where test conditions are appropriate (refer to CECS 204, HKCI TM1 or equivalent standards).

The test area should have no obvious defects. Where defects are located, the contractor shall submit a report for approval. This report shall include analysis of causes, follow-up action and further test plan.

### 4 Acceptance Criteria

For film thickness tests: The average of all point values recorded should equal or exceed the nominal thickness, and there should be no values less than 80 % of the nominal thickness.