

AFL Architects

# NMGH -MULTI STOREY CAR PARK

20200-AFL-MSCP-ZZ-SP-A-0957 P1

NMGH -MULTI STOREY CAR PARK

Tender Issue

P1

04-03-2022

Contents

Z33 Anodizing .....1

Status A, No Comments (S3-DO NOT CONSTRUCT TO)

## Z33 Anodizing

### Clauses

#### 001 Revision

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1. P1 - First Issue

To be read with preliminaries/ general conditions.

#### 110 Anodic coating

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1. Anodizer: Select one only of the following: .....
2. Selected anodizer: Submit details before commencement of anodizing, including:
  - 2.1. Name and contact details.
  - 2.2. Details of accreditation schemes.
  - 2.3. Technical data of product including current Agrément certificates.

#### 210 Working procedures

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1. Standard: To BS 3987 for anodic coatings on wrought aluminium.

#### 220 Anodizer requirements

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1. Processing
  - 1.1. Approved: By the Aluminium Finishing Association.
  - 1.2. Certified: To BS EN ISO 9001.
  - 1.3. Anodizing plant: Each anodizer to use only one plant.

#### 230 Guarantees

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1. Anodizer guarantees: Submit sample copies before commencement of anodizing.
2. Project specific guarantees: Submit signed copies on completion of work.
3. Guarantees to cover
  - 3.1. Life expectancy.
  - 3.2. Colour: Opacity and consistency.
  - 3.3. Texture: Gloss, satin or matt.
  - 3.4. Quality of coating.

#### 240 Control samples

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1. Sequence: Prior to ordering materials for the works, obtain approval of appearance for:
  - 1.1. Anodic coated samples: Showing colour and texture variation.
  - 1.2. Fabrication samples: Showing joint assembly, how anodic coating is affected and how cut metal edges are finished and protected.

#### 250 Independent inspection at plant

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1. Requirement: Contractors/ suppliers of the following designated components must commission an approved Independent Inspection Authority to carry out acceptance inspections to confirm that anodic coating application complies with this specification.
  - 1.1. Designated components:

2. **Acceptance inspections:** Carry out for each variation of colour and finish of each component work package at anodizer's plant prior to any fabrication of units, in accordance with the following:
  - 2.1. Where three or more production runs are required for application of coatings, not less than three acceptance inspections must be carried out in accordance with BS 6001-1, general inspection level 2, with an acceptance quality limit of 1%.
  - 2.2. Where less than three production runs are required for application of coatings, one acceptance inspection must be carried out in accordance with BS 6001-2, with a limiting quality of 5% where the probability of acceptance is 10%.
3. **Components failing inspection:** Reprocess or replace and reinspect.
4. **Inspection reports:** Independent Inspection Authority must submit copies.

## 255 Quality assurance system

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1. **Requirement:** Powder and coating application to the following designated components is to be tested and approved in accordance with the Qualanod system.
  - 1.1. Designated components:

## 270 Component design

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1. **Condition of components to be anodized**
  - 1.1. To comply with relevant recommendations of BS 4479-1, and -5.
  - 1.2. Of suitable size to fit plant capacity.

## 310 Pretreatment

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1. **Condition of components to be anodized**
  - 1.1. Free from corrosion and damage.
  - 1.2. Suitable for and compatible with the pretreatment and anodizing process.
2. **Process:** In accordance with the specification requirements for the finish.

## 410 Extent of anodic coatings

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1. **Application:** To visible component surfaces, and concealed surfaces requiring protection. Coated surfaces will be deemed 'significant surfaces' for relevant BS 3987 performance requirements.

## 420 Application of anodic coatings

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1. **Surfaces to receive anodic coatings:** Clean.
2. **Commencement of anodic coating:** To be continuous from pretreatment.
3. **Jig points:** To be agreed. Not on visible areas of anodic coated components.
4. **Use of touch-up paint:** Not acceptable.

## 430 Performance and appearance of anodic coatings

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1. **Standard:** To BS 3987.
2. **Visual inspection after anodizing:** Significant surfaces to be free from visible coating/ defects when viewed from a distance of not less than 5 m for external and 3 m for internal applications.

## 440 Fabrication

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1. **Units may be assembled**
  - 1.1. Before anodizing, providing sufficient drainage holes are included in components to fully drain components.
  - 1.2. From components anodized after cutting to size.
  - 1.3. Where approved, from components anodized before cutting to size.

- 1.4. Exposure of uncoated background metal: Not acceptable.
- 1.5. Assembly sealants: Compatible with anodic coatings. Obtain approval of colour if sealants are visible after fabrication.

#### **450 Damaged components – repair/ replacement**

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1. Before delivery to site: Check all components for damage to anodic coatings. Replace damaged components.
2. Site damage: Submit proposals for repair or replacement.

#### **510 Protection**

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1. Anodic coated surfaces of components: Protect from damage during handling and installation, or by subsequent site operations.
2. Protective coverings: Must be:
  - 2.1. Resistant to weather conditions.
  - 2.2. Partially removable to suit building in and access to fixing points.
3. Protective tapes in contact with anodizing to be
  - 3.1. Low tack, self adhesive and light in colour.
  - 3.2. Applied and removed in accordance with tape and anodizers recommendations.
4. Inspection of protection: Carry out weekly. Promptly repair any deterioration or deficiency.

#### **530 Documentation**

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1. Submit the following information for each batch of anodic coated components
  - 1.1. Supplier.
  - 1.2. Trade name.
  - 1.3. Colour (if required).
  - 1.4. Batch and reference number.
  - 1.5. Statutory requirements.

#### **540 Completion**

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1. Protection: Remove.
2. Cleaning and maintenance of anodic coatings: Carry out in accordance with procedures detailed in anodizer's guarantees.

#### **545A Flat Panel & Expanded mesh samples is showing**

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1. Dark Umber - Type C - All perforated panels &  
Type B - All upper floor mesh

#### **545B Expanded Mesh sample is showing**

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1. Dark Bronze (black) - Type A - GF only colour (mesh only)

Ω End of Section

Status A, No Comments (S3-DO NOT CONSTRUCT TO)



Specification created using NBS Chorus