EUROPEAN COIL COATING ASSOCIATION A.I.S.B.L

**ECCA PREMIUM® QUALITY AND SUSTAINABILITY LABEL**

 **SELF DECLARATION CHECK LIST, PREPAINTED ALUMINIUM SUBSTRATES**

## Product quality, LIQUID COATINGS

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| **Properties** | **Value/limits** | **Additional information** | **OK?** |
| **Mechanical performance** | Aluminium substrate type and thickness tolerances | Substrate type according to EN 1396, no out-of-tolerances |  |  |
| Certificate according to EN 10204 |
| Total film thickness | Min. total film thickness ≥ 17 μm |  |  |
| Total thickness tolerances | EN 1396, Clause 6.1, Table 2 |  |  |
| Top coat, gloss tolerances | EN 1396, Clause 6.2, Table 3 |  |  |
| Top coat, colour consistency | On-line or off-line colour consistency control shall be demonstrated. |  |  |
| Adhesion | EN 1396, Clause C.4, Result: Class 0 acc. ISO 2409 |  |  |
| Bendability | T-Bend value shall correspond to the customer order and requirements. |  |  |
| **Durability** | Resistance to corrosion, accelerated test (AASS) | Index 2 as defined in EN 1396, Table C.4 | See 1) |  |
| Resistance to corrosion, natural weathering | Index 2 as defined in EN 1396, Table C.4 | See 2) |  |
| Resistance to UV radiation, accelerated test (QUV-A) | Min. RUV2 as defined in EN 1396, Table C.5:* 2000h QUV-A test: max. deltaE = 5, min. gloss retention 30%
 | See 3) |  |
| Resistance to UV radiation, natural weathering | Min. RUV2 as defined in EN 1396, Table C.5* 2 years outdoor exposure: max. deltaE = 5, min. gloss retention 30%
 | See 4) |  |
| Fire reaction | PE 17-25μm: no requirement (preapproved) |  |  |
| PE > 25μm, other coatings: A2-s1,d0 (EN 13501) | See 5) |  |

## AASS test is optional if Index 2 performance level can be shown by a certificate from an accepted outdoor test field. AASS test alone can be accepted as proof of corrosion resistance in case of a new product.

1. Result not required in a case of a new product with outdoor tests on-going (= no results yet) on the condition that AASS test result is approved.
2. QUV-A test is optional if minimum RUV2 performance level can be shown by a certificate from an accepted outdoor test field. QUV-A test alone can be accepted as proof of UV resistance in case of a new product.
3. Result not required in case of a new product with outdoor tests on-going (= no results yet) on the condition that accelerated QUV-A test result is approved.
4. One test certificate is valid for one product for all production lines of one company.

## Product quality, POWDER COATINGS

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| **Properties** | **Value/limits** | **Additional information** | **OK?** |
| **Mechanical performance** | Aluminium substrate type and thickness tolerances | Substrate type according to EN 573-3, no out-of-tolerances |  |  |
| Certificate according to EN 10204 |
| Total film thickness | Min. total film thickness ≥ 45 μm |  |  |
| Total thickness tolerances | EN 1396, Clause 6.1, Table 2 |  |  |
| Top coat, gloss tolerances | EN 1396, Clause 6.2, Table 3 |  |  |
| Top coat, colour consistency | On-line or off-line colour consistency control shall be demonstrated. |  |  |
| Adhesion | EN 1396, Clause C.4, Result: Class 0 acc. ISO 2409 |  |  |
| Bendability | T-Bend value shall correspond to the customer order and requirements. |  |  |
| **Durability** | Resistance to corrosion, accelerated test (AASS) | Index 2 as defined in EN 1396, Table C.4 | See 1) |  |
| Resistance to corrosion, natural weathering | Index 2 as defined in EN 1396, Table C.4 | See 2) |  |
| Resistance to UV radiation, accelerated test (QUV-A) | 1500h QUV-A test: max. deltaE = 5, min. gloss retention 30% | See 3) |  |
| Resistance to UV radiation, natural weathering | 1 year outdoor exposure: max. deltaE = 5, min. gloss retention 30% | See 4) |  |
| Fire reaction | All coatings: A2-s1,d0 (EN 13501) | See 5) |  |

## AASS test is optional if Index 2 performance level can be shown by a certificate from an accepted outdoor test field. AASS test alone can be accepted as proof of corrosion resistance in case of a new product.

1. Result not required in a case of a new product with outdoor tests on-going (= no results yet) on the condition that AASS test result is approved.
2. QUV-A test is optional if minimum RUV2 performance level can be shown by a certificate from an accepted outdoor test field. QUV-A test alone can be accepted as proof of UV resistance in case of a new product.
3. Result not required in case of a new product with outdoor tests on-going (= no results yet) on the condition that accelerated QUV-A test result is approved.
4. One test certificate is valid for one product for all production lines of one company.

## Product sustainability

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| **Requirements** | **Legislation** | **Additional information** | **OK?** |
| Labelled product does not intentionally contain any substances included in the Annex XIV of REACH, which shall be proven by suppliers’ declarations. | EC 1907/2006, “REACH” | See 1) |  |

1. All substances currently included in the Annex XIV of ECHA are listed on the website of the European Chemical Agency: <http://echa.europa.eu/web/guest/addressing-chemicals-of-concern/authorisation/recommendation-for-inclusion-in-the-authorisation-list/authorisation-list>. List is regularly updated and ECCA Premium® members will be informed of any upcoming change with due notice.

## Manufacturing quality

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| **Requirements** | **Standard** | **Additional information** | **OK?** |
| ISO 9001 certification: The applicant shall have the quality management system ISO 9001, certified by an independent organization including the scope of the assessed product. | ISO 9001 |  |  |
| ISO 14001 or EMAS certification:The applicant shall have the environmental management system ISO 14001 or EMAS, certified by an independent organization including the scope of the assessed product. | ISO 14001 or EMAS |  |  |
| Adoption of a safety management system:The applicant shall have a health and safety management system (OHSAS 18001 similar) | OHSAS 18001 or similar |  |  |

## Manufacturing sustainability

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| **Requirements** | **Standard/ legislation** | **Additional information** | **OK?** |
| Energy efficiency:Continuous follow-up of energy consumption of the production activities shall be proven |  | See 1) |  |
| VOC destruction: The curing ovens on the coil coating lines need to be equipped with a solvent destruction system, e.g. a thermal oxidizer. The maximum carbon content in the exhaust gas shall not exceed 50 mg/m3. | 2010/75/EU, Industrial Emissions Directive |  |  |
| VOC emissions: fugitive emissions from the coil coating process ≤ 5% for new installations and ≤ 10% for old installations | 2010/75/EU, Industrial Emissions Directive  |  |  |
| Water consumption: continuous follow-up of total water consumption on the coil coating process shall be demonstrated |  | See 2) |  |
| Waste management: the applicant shall demonstrate separation of hazardous and non-hazardous waste in the coil coating process, and treatment of both in proper ways. | 2008/98/EC, Waste Framework Directive  |  |  |

1. Follow-up can be applied to whole production or only the coil coating line. Energy consumptions to be listed are: natural gas, electricity, steam, compressed air, oil, LPG
2. Follow-up can be applied to whole production or only the coil coating line.

## Social Responsibility

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| **Requirements** | **Standard** | **Additional information** | **OK?** |
| UN Global Compact or other social responsibility scheme: Adherence to the UN Global Compact scheme or other social responsibility scheme is desired. In case of no official adherence, a commitment of the company’s management to social responsibility principles shall be demonstrated. | UN Global Compact or similar |  |  |