

AliDeck uses the QUALICOAT POWDERCOAT PROCESS

Specification Datasheet

AliDeck uses QUALICOAT which is a global quality label organisation committed to maintaining the quality of lacquering, painting and coating on aluminium and its alloys for architectural applications. QUALICOAT is the world's leading quality label for the coating of aluminium.

BS 6496:1984: Specification for powder organic coatings for application and stoving to aluminium alloy extrusions, sheet and preformed sections for external architectural purposes, and for the finish on aluminium alloy extrusions.

AliDeck extrusions are finished using the following EN standards:

EN 12206-1:2004: Paints and varnishes. Coating of aluminium and aluminium alloys for architectural purposes. Coatings prepared from coating powder

EN ISO 2409:2013: Paints and Varnishes, Cross Cut Test.

Our quality department also perform the following tests on our powder coated profiles.

QUALICOAT 2.1: Visual inspection at 3 metres for internal and 5 metres for external extrusions (Our Inspectors visually inspect at 1 metre as standard)

QUALICOAT 2.2: Gloss level check to within 5% +/- of the manufacturer's stated level. [EN ISO 2813]

QUALICOAT 2.4.1: Cross Hatch cuts are made at 2mm spacing with one being at

90° to the other cut, tape is then applied, left for 2 minutes and removed to check for adhesion of paint. [EN ISO 2409 2013]

QUALICOAT 2.3: Thickness checks to see that the material is coated with at least 60 microns of powder, average. [EN ISO 2360]

QUALICOAT 2.6: Cupping test is carried out to check for adhesion with the substrate [EN ISO 1520]

QUALICOAT 2.8: Impact test with an energy of 2.5Nm to ensure that the coating adheres to the substrate [EN ISO 6272 / ASTM D2794]

QUALICOAT 2.7: Bend test on a 5mm Mandrel to ensure adhesion after bending [EN ISO 1519]

QUALICOAT 2.11: Machu test (Accelerated corrosion test) in a solution made up of Sodium Chloride, Acetic Acid and Hydrogen Peroxide at 37°C. Duration 48 hours

QUALICOAT 2.14: Polymerisation test (Wipe with MEK for 30 seconds)

QUALICOAT 2.16: Resistance to boiling water in a pressure cooker. Duration 1 hour 100Kpa

QUALICOAT 2.18: Sawing and drilling to ensure that there is no flaking after cutting (using sharp tools)

Curing Oven temperatures are checked and recorded on a daily basis External checks carried out by the powder suppliers and our Laboratory in Belgium on random samples of extrusion:

ISO9227: Acetic Acid Salt Spray Test

EN ISO 3231: Resistance to humid atmospheres containing Sulphur Dioxide

EN ISO 11341: Accelerated weathering test

EN ISO 2810: Natural weathering test (Florida Test). (Carried out on Powder type)

EN ISO 12206-1: Resistance to mortar (Carried out on Powder type)

EN ISO 6270-2: Constant Climate Condensation Water test

Our aluminium is sent through a variety of pre-treatment chemical baths that remove a very fine layer off the surface before powder coating.

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