

Technical datasheet

AluDesign

Performance properties are measured according to ECCA (European Coil Coating Association), EN (Euro Norm) and ASTM (American Standard Test Methods). The ETM's (Euramax Test Methods) are either derived from these standard test methods or are developed by Euramax in order to measure other properties than those prescribed by ECCA, EN and ASTM.

Test methods

EN 13523-1 Coating thickness (ETM 1-026)	Basecoat typical value of 25 µm Decoration, depending on design up to 30 µm Clear coat: 30 µm (Tolerances according to EN 1396 table 3)
EN 13523-2 Specular gloss topcoat (ETM 1-029)	Gloss measured by 60° Gardner: ≥ 80 g.u. (full gloss) (Visual gloss differences may be present depending on coverage's on the decorated areas)
EN 13523-3 Colour differences topcoat (ETM 1-028)	Measured according Cielab D65/10°: ΔE (CMC) ≤2 (For decorated areas and unequal surfaces a visual comparison according EN 13523-22 do apply).
EN 13523-4 Pencil hardness (ETM 1-058)	Minimum: 4H (Indicative value; test does not apply for film thicknesses over 50 µm)
EN 13523-5 Resistance to rapid deformation combined with adhesion (ETM 1-059)	Reverse impact resistance measures by 7.5 Nm/mm: n.a. Only to be used for plane surfaces Loss of adhesion by cross hatch: ≤ GT1 (>95% unaffected) On plane surfaces
EN 13523-6 Adhesion after indentation (ETM 1-059)	Loss of adhesion by cross hatch: n.a. Only to be used for plane surfaces
EN 13523-7 Resistance to cracking on bending (ETM 1-060)	Bending through 180° by folding method: typical value 1,5T (Indicative value; value is initial and only valid for areas without image. Less relevant because of plane surface use only)
EN 13523-8 Resistance to salt acid spray fog (ETM 1-076)	After 1000 hours: Creepage on scribe to bare metal max. 2 mm (corrosion index 2 according EN 1396, table C.4)
DIN EN ISO 6270-2 and ISO 4628/2 Humidity resistance (ETM 1-077)	After 1000 hours: no blistering/no changes



EN 13523-13 M.E.K. / Solvent rubbing test (EMT 1-083)	MEK (methyl ethyl ketone) double rubs: < 100 no base material visible
Light fastness Suntest XXL+	Testing time 1000 hours Colour retention: DE <3(*) Gloss retention: > 50% Chalking: <10% (*)Stronger colours (high chroma) could change in higher excess but will not show an appreciable difference