

TDS02 - COATED LEAD PROFILE - May 2008

1. PRODUCT DESCRIPTION

RegaLead have developed a range of electrophoretically polymer coated self-adhesive lead profiles to provide customers with new colours, to obviate issues relating to the uncontrolled oxidation of lead profiles and to minimise physical contact with the lead metal during application.

The products are manufactured to the same dimensional specifications as RegaLead Natural Profiles, detailed in TDS01, and under the procedures of ISO9000:2000. Coated lead profiles are available in the following colours: Brass, Satin Brass, Ebony (Black), Antique (Medium Grey), Satin Antique, Platinum (Light Grey) and Satin Platinum. The profiles are laminated with high performance acrylic pressure-sensitive adhesives to enable permanent application to glass in normal ambient conditions worldwide.

2. PRODUCT RANGE

The Oval sizes shown (✓) in the table are normally available ex. stock. Flat profiles are made to order on a 100 reel (50m) minimum basis.

NOMINAL WIDTH (mm)	12		9		6		4.5	3 *
	Oval	Flat	Oval	Flat	Oval	Flat	Oval	Oval
BRASS	✓	-	✓	✓	✓	✓	✓	✓
EBONY	✓	-	✓	-	✓	-	✓	✓
ANTIQUE	✓	-	✓	✓	✓	✓	✓	✓
PLATINUM	✓	-	✓	-	✓	-	✓	✓
Supplied on 50m spools per outer	4	4	5	5	6	6	7	10

* 3mm lead is supplied as 25 metres x 2 strands and is kiss cut.

For the full range of sizes and colours, see the Lead swatch.

3. TECHNICAL SPECIFICATIONS

COATING SPECIFICATION: Cross-linked polyurethane paint system utilising UV stable pigments and dyes.

THICKNESS RANGE: 10-15 Microns

LEAD ALLOY: 99.5% Pure Lead modified with antimony.

LEAD PROFILE DIMENSIONS: Typical overall thickness (mm) includes coating adhesive and siliconised liner.

PROFILE WIDTH	12mm	9mm	6mm	4.5mm	3mm
REGALEAD OVAL	0.85	0.81	0.81	0.78	0.78
REGALEAD FLAT	0.55	0.55	0.55	-	-

ADHESIVE SPECIFICATION: Modified Acrylic (solvented)

THICKNESS: Adhesive 0.06mm typically
Siliconised Liner 0.08mm

TEMPERATURE RANGE: -40°C to 120°C

SHEAR PERFORMANCE TO STEEL: 35N/625mm²
(DIN EN 1946) @ 23°C +/-2°C

PEEL ADHESION TO STEEL: 29N/25mm
(DIN EN 1939) @ 23°C +/-2°C

4. PERFORMANCE

BS5713 / BSEN1279

RegaLead Coated Lead Profiles are used in the production of double glazed (IG) units under BS5713 and also recently introduced in the UK, BSEN1279.

The requirements of BSEN1279 Part 6 are met in the following ways:

Annex C (normative): Fogging Tests:

Unit manufactured using RegaLead Coated Lead Profile can conform to this test method.

Annex G (informative): Volatile Test:

Data is being collated and will be available to be issued to customers when available.

Annex J (informative): Adhesion Test:

Regular testing under the operating procedures outlined in ISO9000:2000 are carried out at RegaLead Ltd.

A Certificate of Conformity to Annex J can be issued for the Peel and Shear requirements of this specification, by request, to our Quality Manager.

WEATHERING

The performance and integrity of RegaLead Coated Lead profiles have been proven in application over the past 10 years.

Coating performance has been tested and monitored on a regular basis using the ASTM G154 – 00 accelerated weathering test.

The test method is 1000 hours exposure using UVB 313 lamps, 4 hours @ 60°C / 4 hours condensation @ 50°C undertaken at an approved laboratory.

After cycling test samples show no signs of surface corrosion and retain a level of colour retention/gloss consistent with other externally applied decorative paint systems.

5. APPLICATION AND STORAGE

The correct application of RegaLead profiles is important to obtain optimum performance. Full details are given in TDS05 Application of Lead Profiles. Correct storage conditions are important to reduce deterioration. The products will have a shelf life of 12 months if stored at room temperature 20°C and normal humidity (50% - 70% RH).

6. HEALTH & SAFETY

Lead is a stable metal but the correct handling of the product is important to avoid inhalation or ingestion of dust or fumes. Under normal application conditions the most important precaution relates to personal hygiene, ie washing hands after application. Further important specific details are given in the HSE Leaflet "Lead and You"

Information and recommendations are given in good faith and based on practical tests. No warranty or guarantee is given as to the fitness of any Goods for any particular purpose and the buyer shall have satisfied himself as to the fitness of the Goods for the purpose for which they are so required. Product covered by Standard Conditions of Sale.