

TDS01 - NATURAL LEAD PROFILES - May 2008

1. PRODUCT DESCRIPTION

RegaLead have developed an extensive range of oval and flat self-adhesive profiles which, when applied to glass provide the decorative effect of leaded windows. The products can be applied in applications for both single and double glazed (IG) units in regular patterns, diamond and rectangles or more intricately, along with Stained Glass Art Film and RegaBevels to produce sophisticated decorative glass displays in many applications.

RegaLead profiles are approximately 5% thicker than the RegaLead equivalent version at the same nominal width. All profiles are manufactured under procedures of ISO9000:2000 and utilise proven high performance acrylic pressure-sensitive adhesive systems to enable permanent application to glass in normal ambient conditions worldwide.

2. PRODUCT RANGE

The sizes shown(✓) in the table are normally available ex. stock: other sizes are available to order, for details see the lead swatch.

NOMINAL WIDTH (mm)	12		9		6		4.5	3
	Oval	Flat	Oval	Flat	Oval	Flat	Oval	Oval
REGALEAD***	-	-	✓	-	✓	-	✓	✓
50 Metre Plastic Reels per Outer Carton	4	4	5	5	6	6	7	8

Certain RegaLead profiles are also available on 10 metre plastic reels, for details see the lead swatch.

3. TECHNICAL SPECIFICATIONS

LEAD ALLOY: 99.5% pure lead modified with antimony.

LEAD PROFILE DIMENSIONS: typical overall thickness (mm) including adhesive and siliconised liner

PROFILE WIDTH	12mm	9mm	6mm	4.5mm	3mm
REGALEAD OVAL	0.85	0.72	0.72	0.72	0.72

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 Natural 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:

Units manufactured using RegaLead Natural 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

Like any natural lead product exposed to the environment, lead profiles will undergo a certain 'atmospheric' transformation. Details of the process and effects are given in TDS04 Oxidation of Lead.

LONGEVITY

Profiles when applied correctly (see TDS05 Application of Lead Profiles) have a service life in excess of 10 years.

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.