

Unprecedented Protection

LUXACOTE®

for exterior application

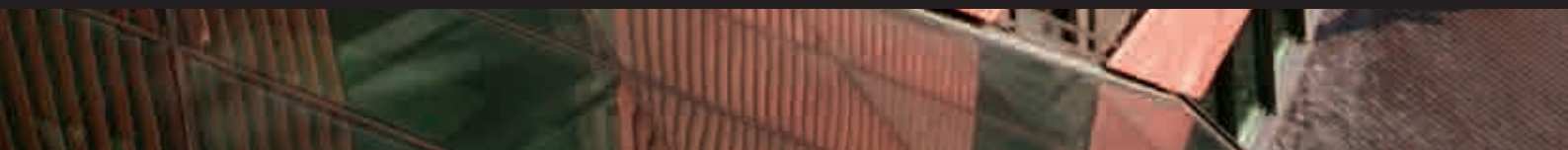


HunterDouglas

CEILINGS

SUN CONTROL

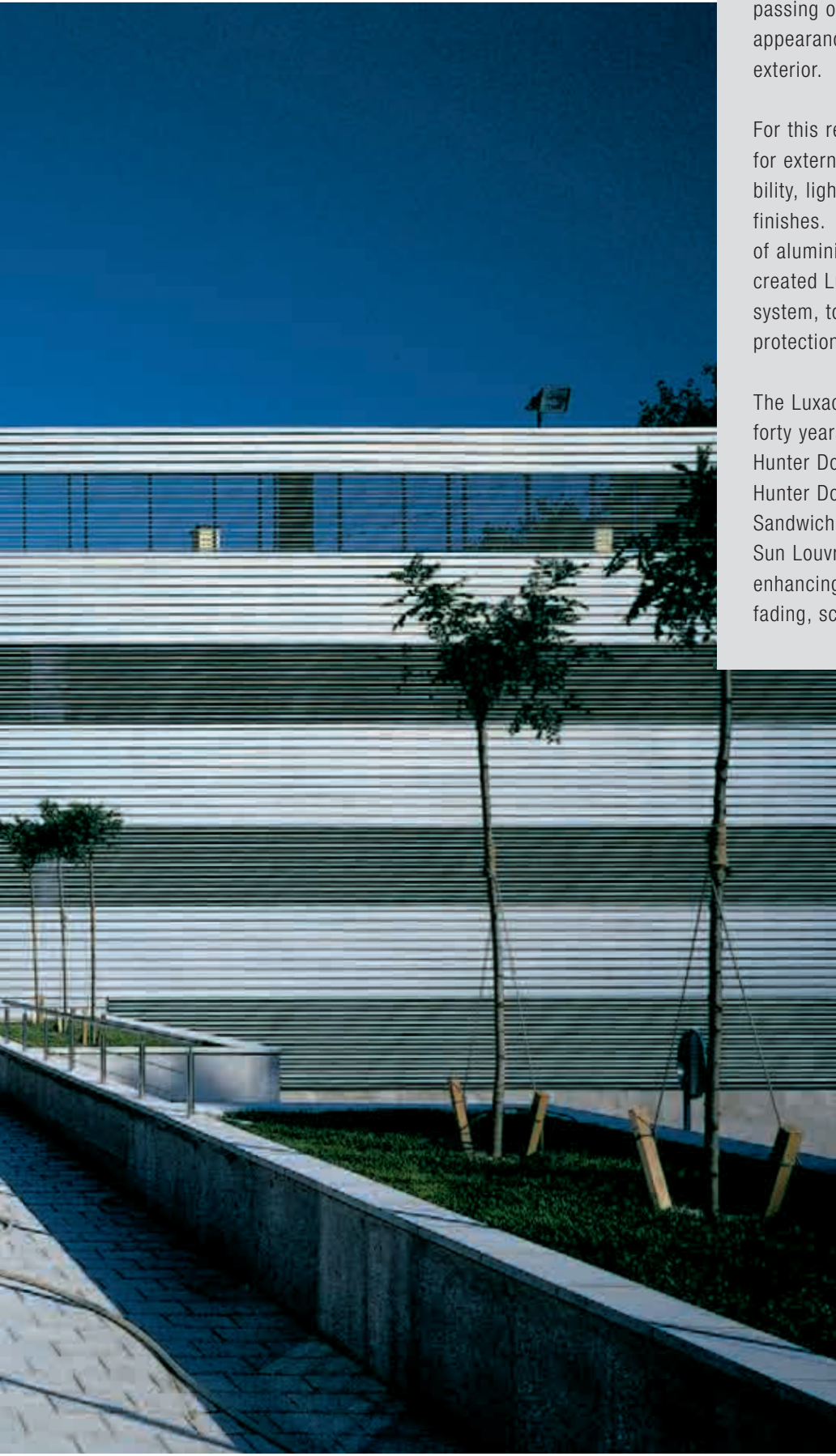
FAÇADES



Luxacote® more than a coating



Project : West End, parking garage, Bratislava, Slovakia
Architect: Arch. Závodný
Product : Linear Façade 84R



Exterior building applications have to withstand a wide range of punishing outdoor conditions. Rain, snow, UV rays, drastic temperature changes, dirt, pollution, and the passing of time can all effect the quality, appearance and performance of the building exterior.

For this reason, aluminium is often the choice for external use, due to its outstanding durability, light weight, and variety of attractive finishes. To further enhance the benefits of aluminium products, Hunter Douglas has created Luxacote®, an innovative coating system, to provide excellent - and integral - protection to exterior aluminium products.

The Luxacote® system is backed by the over forty years of exterior building experience of Hunter Douglas. It is compatible with all Hunter Douglas Façade systems (QuadroClad, Sandwich Wall, and Multiple Panel Façades), Sun Louvres, Exterior Ceilings and Soffits enhancing their durability against colour fading, scratches, and corrosion.

THE LUXACOTE® SYSTEM	2
PRODUCT BENEFITS	4
ENVIRONMENTAL ASPECTS AND SUPERIOR CHARACTERISTICS	6
TECHNICAL SPECIFICATIONS	7

Durability Defined: The Make-up of Luxacote®

Luxacote® is an exclusive Hunter Douglas innovation that enhances the durability of exterior aluminium building applications. Its strength and efficiency comes from a powerful 3-layered system that consists of an anorcoat pretreatment, a colour coating, and a transparent topcoat.

ANORCOAT - The Key to Durability

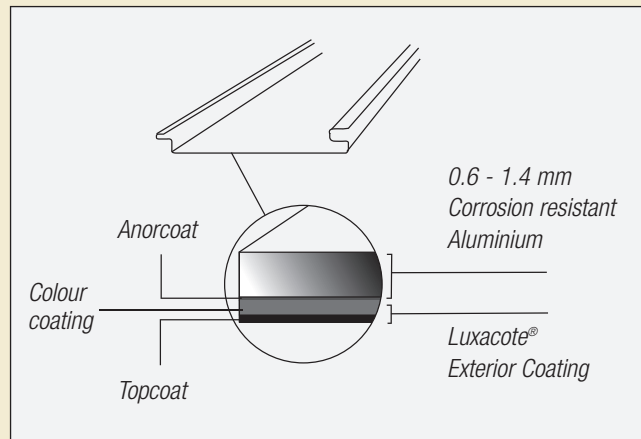
After degreasing and cleaning the aluminium substrate, an anorcoat conversion layer is applied to the product. This conversion layer accomplishes two things:

- Permanently anchors the paint to the aluminium surface
- Protects the aluminium surface from corrosion

Anorcoat is the key to the excellent performance of the Luxacote® system; it provides far superior protection than conventional conversion layers.

COLOUR COATING - Powerful Pigments

The base of the pigmented coating of Luxacote® is polyurethane. The colour coating contains no chlorides, fluorides, or halogens. To ensure optimal colour-fastness, we only use colour-stable pigments.



TOPCOAT - The Final Touch

The transparent polyurethane topcoat with polyamide particles finishes the Luxacote® system, giving products a highly scratch- and wear-resistant surface. Additionally, the topcoat protects from UV rays, improving the durability of the colour and gloss.





Hunter Douglas has completely integrated the application of Luxacote® into the production process. The result: extremely durable products with slightly textured surfaces that manage potentially damaging outdoor conditions.

A SPECTRUM OF STRENGTH: THE COLOURS OF LUXACOTE®

The colours available to the Luxacote® system vary from traditional subtle shades to vivid, bold and exciting colour palettes. A full range of metallic colours are also available.

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Left : Avenue Mall, Zagreb, Croatia
Architect: Laguarda Low Architects LLC (USA)
and Plan d.d. (Croatia)
Product : QuadroClad

Right : Campolide station, Campolide, Portugal
Architect: Mata Guedes
Product : Wide Panel Ceiling 300L



Protection Plus: The benefits of Luxacote®

The durable, protective benefits of Luxacote® are proven by strong results in tests conducted by leading institutes. These benefits include the following.

COLOUR AND GLOSS STABILITY

Beyond passing accelerated erosion tests in a laboratory, the Luxacote® system also proved its strength in additional representative tests for colour and gloss stability in the state of Florida in North America, known for its intense heat and strong sun. The results of these tests qualify Luxacote® for the highest category, in accordance with the EN 1396 standard.

CORROSION RESISTANCE

Corrosion can lead to permanent structural damage. While aluminium is not a traditionally corrosive material, there remain several circumstances which can prove challenging. Coastal or polluted areas and contact corrosion - damage caused by direct contact of aluminium and iron - can take a toll on even the most durable of materials.

The Luxacote® system provides aluminium the highest possible protection against even these influences. Luxacote® meets the requirement for the highest category for corrosion, within the EN 1396 tested according to EN 13523-19. The test site was located on the Dutch coast, another area known for its difficult and intense climate conditions.

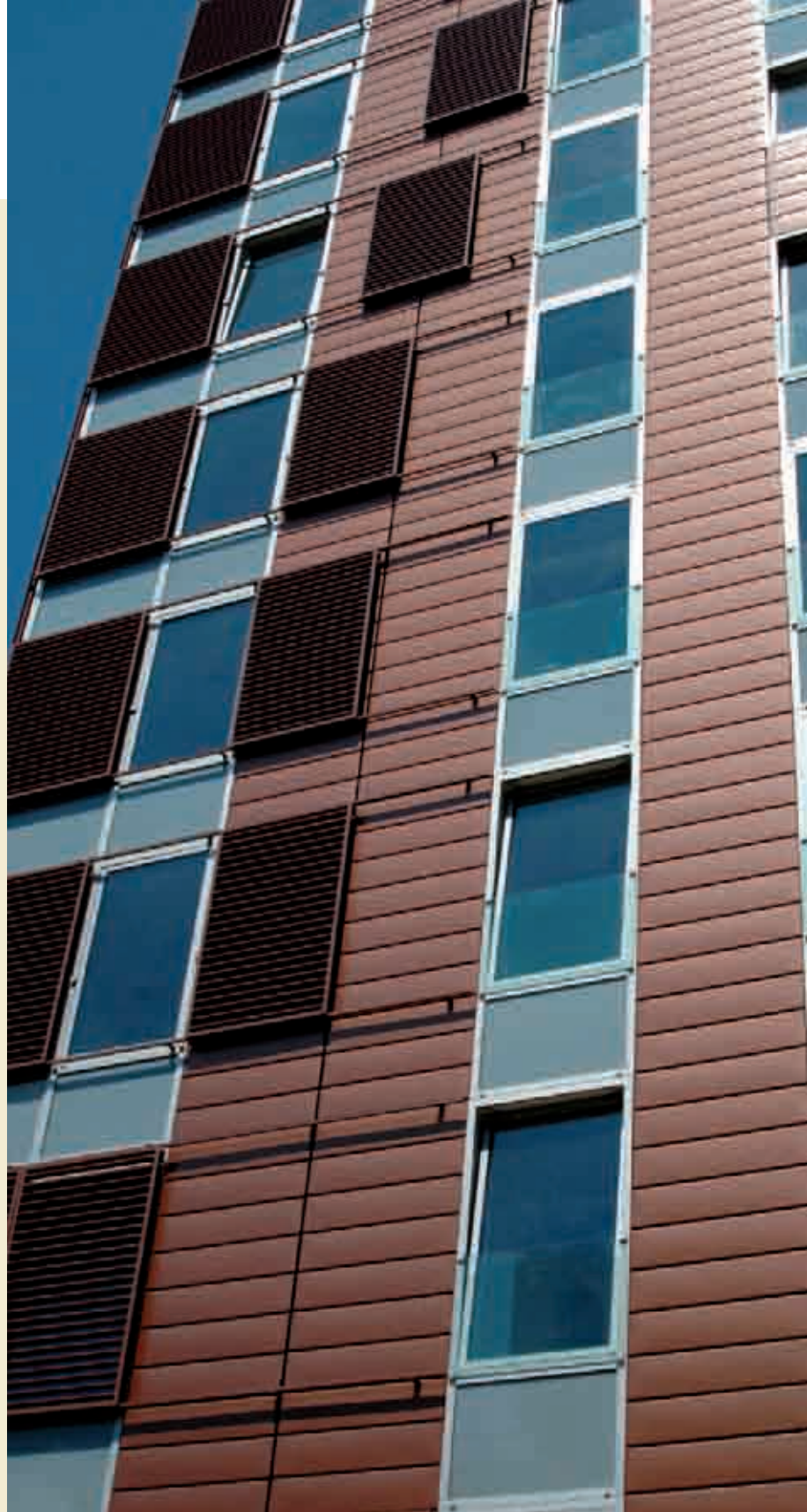


HIGH SCRATCH RESISTANCE

When compared to other metal coatings, the Luxacote® system provides superior resistance to scratches. The slightly textured topcoat surface masks minor damages - including those incurred during installation - and keeps the exterior application looking beautiful.

The right alloy

Excellent pre-treatment and a colour-stable coating is not enough to produce a product that performs well; The right aluminium alloy is equally important. In order to reach the optimal durability level, Hunter Douglas utilizes a highly corrosion-resistant aluminium alloy type - EN AW 3005 or equivalent.



Above : Crown Court, Prague, Czechia
Architect: CMC Architects
Product : Multiple Panel Façade

Architecturally Strong, Environmentally Delicate

DURABILITY

Hunter Douglas exterior building products with Luxacote® are an environmentally friendly choice. Due to their outstanding durability, re-coating is typically unnecessary, which reduces additional impact on the environment. The corrosion resistance of products coated with Luxacote® eliminates the need for early replacement, which reduces the need for use of additional raw materials.

SMARTER, SUSTAINABLE-MINDED PRODUCTION

Hunter Douglas has also taken extensive measures to restrict the environmental effects of production and used materials. Luxacote® is based on polyurethane chemistry and contains no chlorine, fluorine, or other halogens. During the heat process, generated energy is re-purposed to heat the ovens, saving natural gas. The coating is then applied in such a way that no paint is lost, with

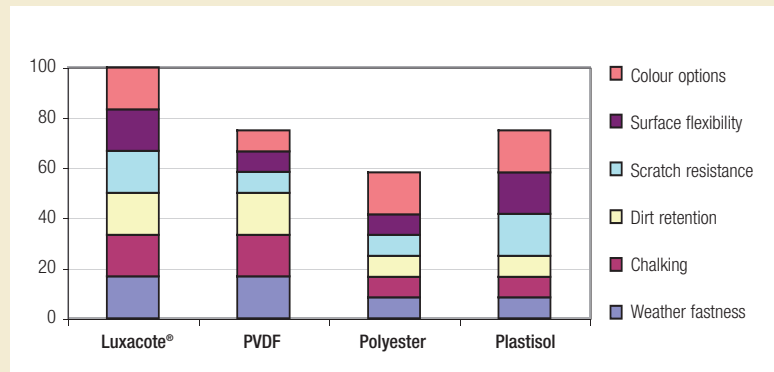
remaining paint being stored in drums that are removed under controlled conditions.

ENERGY-SAVING ALUMINIUM

More and more, aluminium is being recycled worldwide. Reconditioning recycled aluminium expends only 5 to 6 percent of the total energy required to create primary aluminium.

SUPERIOR CHARACTERISTICS

The following graphic gives a comparative and instant overview of the total performance of the most common coating systems. While some products score well on a few characteristics, the Luxacote® system exceeds in every aspect.



TECHNICAL SPECIFICATIONS LUXACOTE®

Characteristic	According standard	Specification
Coating thickness	EN 13523-1, ISO 2360	24-32 microns
Gloss	EN 13523-2, ISO 2813	28 ^{±5} units
Gloss variation within 1 delivery	EN 13523-2, ISO 2813	± 3 units
Colour difference compared to standard	EN 13523-3, ISO 7724, part 3	$\Delta E < 2$ units
Colour variation within 1 delivery	EN 13523-3, ISO 7724, part 3	$\Delta E < 0.7$
Flexibility	EN 13523-7, ISO 1519	depends on chosen aluminium and required profile
Adhesion	EN 13523-5, ISO 6272 EN 13523-7, ISO 1519 ISO 2409	impact: 2T: no loss of adhesion
Pencil hardness	EN 13523-4 ASTM D 3363	≥ HB
Durability	EN 1396, EN 13523-19	highest category (see tabel C3)
Corrosion resistance	EN 1396, EN 13523-19	highest category (see tabel C2)
Humidity resistance	EN 13523-9, ISO 6270 ISO 4628/2	blisters less than size 2 (S2 or S3)
Salt acetic acid spray test	EN 13523-9, IS 4628/2	1000 hours, less than 2 mm. Undercreep and blistering max. S2 or S3
Salt spray test	ISO 7253	test too mild for aluminium



Below : World Trade Centre, Schiphol, the Netherlands
 Architect: Van Benthem en Crouwel/Naco, the Hague
 Product : Wide Panel Ceiling 300C Exterior



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In the last 80 years, we've been fortunate enough to help turn countless innovative sketches into innovative buildings.



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With major operation centres in Europe, North America, Latin America, Asia and Australia, we've contributed to thousands of high-profile projects, from retail and commercial facilities to major transit centres and government buildings.

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ARCHITECTURAL SERVICES

We support our business partners with a wide range of technical consulting and support services for architects, developers and installers. We assist architects and developers with recommendations regarding materials, shapes and dimensions and colours and finishes. We also help creating design proposals, visualisations and mounting drawings. Our services to installers range from providing detailed installation drawings and instructions to training installers and advising on the building site.



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HUNTER DOUGLAS is a publicly traded company with activities in more than 100 countries with over 150 companies.

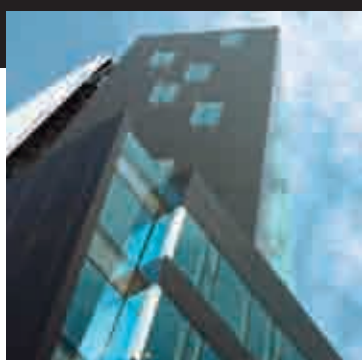
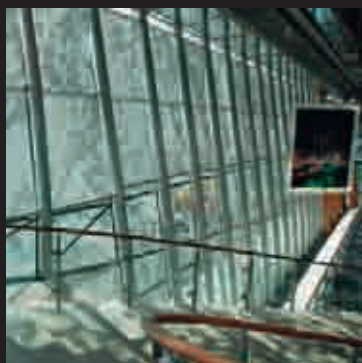
The origin of our company goes back to 1919, in Düsseldorf, Germany. Throughout our history, we have introduced innovations that have shaped the industry, from the invention of the continuous aluminium caster, to the creation of the first aluminium Venetian Blinds, to the development of the latest high-quality building products.

Today we employ more than 20.000 people in our companies with major operation centres in Europe, North America, Latin America, Asia and Australia.

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