



Roller Shutter

coated by **ZAIN ONE**

Pre-painted Aluminum For Roller Shutter

Durable, Aesthetic and High-Performance Coatings Systems

Committed to continuous development and full customer satisfaction, Zain One provides strips for roller shutter in three alternative coating systems. Zain One's material provides excellent mechanical properties and durable surface coatings suitable for roller shutter. Whether for residential or commercial settings, our pre-painted aluminum delivers high performance, reliability, and adaptability, offering excellent resistance to weathering and wear while enhancing the aesthetic appeal of any building.

Production Range

	Coils	Sheets	Roller Shutter
Gauge (mm)	0.01 - 1.20	0.30 – 3.00	0.25 - 0.50
Width (mm)	Max. 1,600	Max. 1,600	Min 80.0

Quality Control

Zain One facilities in Gassim, Saudi Arabia operates under a certified quality management system in compliance with ISO 9001, with ongoing enhancements to quality controls that are continuously refined and enhanced to meet the highest industry standards. These controls are implemented in line with European standards, including DIN, ASTM and BS. In addition to product quality, Zain One places a strong emphasis on environmental responsibility and it is certified according to DIN EN ISO 14001 for Environmental Management System.

Paint System

	SYSTEM 1	SYSTEM 2	SYSTEM 3
Coating	PU Primer + PU/PA Top coat	PU/PA Basecoat + PU/PA Clear coat	PU Primer + HDPE Top coat
Film Thickness	≥ 25 µm	≥ 27µm	≥27 µm
Gloss 60 °	10-30 GU	10-30 GU	30-90 GU
UV Resistance	RUV4 ⁽¹⁾ 2000h UVA (250 cycles); 30-60% GR ⁽²⁾	RUV4 ⁽¹⁾ 2000h UVA (250 cycles); 50-70% GR ⁽²⁾	RUV6 ⁽¹⁾ 2000h UVA (250 cycles); 60-80% GR ⁽²⁾
Corrosion Resistance	Excellent corrosion resistance 10 years warranty ⁽³⁾	Excellent corrosion resistance 10 years warranty ⁽³⁾	High corrosion resistance 15 years warranty ⁽³⁾
Bending Properties	0-0.5 T NPO; 0.5-1 T NC	0-0.5 T NPO; 0.5-1 T NC	0-0.5 T NPO; 1 T NC
Chemical Resistance	Good chemical resistance ⁽¹⁾	Excellent chemical resistance ⁽¹⁾	Excellent chemical resistance ⁽¹⁾
Profile Marking Resistance	Good marking resistance	Excellent marking resistance	Good marking resistance

(1) Performance values varies with saturated and metallic color and substrate types.

(2) Coating integrity warranty excludes damaged surfaces which may result from incorrect cleaning, forming storage, cutting, stamping, joining, assembly, etc. in accordance with EN 1396

(3) Performance can vary based on end user environment.

Δ E = Colour Deviation

GR = Gloss Retention

GU = Gloss Unit

NC = No Cracks

NPO = No Pick Off

Lacquers

Top side: Polyurethane-Polyamide or Polyester-Polyamide.

Bottom side: Protective transparent lacquere suitable for polyurethane foam adhesion.

Colours

Colours as per RAL or NCS range of colours, or as per customers request.

Wood effect finishes as well as special colours can be provided.

Aluminum Mechanical Properties

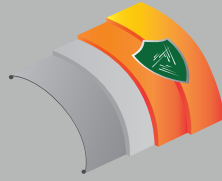
	3005- H46		3005- H48	
	Min.	Typical	Min.	Typical
Tensile Strength (N/mm ²)	190	200-210	220	230-240
Yield Strength (N/mm ²)	160	180	190	200-210
Elongation (%)	3	5	2	4

Product Highlight



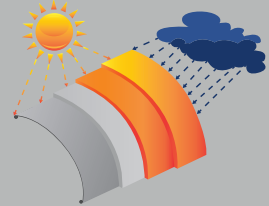
THERMAL INSULATION

PUPA coating has a thermal resistance that is increased by $R > 0,10 \text{ m}^2 \cdot \text{K} / \text{W}$ which can be formulated to enhance thermal insulation properties, reducing heat transfer through the roller shutters and helping maintain indoor temperature stability.



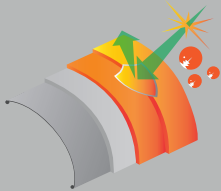
ENHANCED DURABILITY

Our roller shutter coating provides a tough protective layer that resists scratches, abrasions, and impacts, extending the life of the shutter windows even with frequent use and exposure to outdoor conditions.



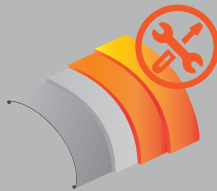
WEATHER RESISTANCE

It offers excellent protection against UV rays, rain, humidity, and temperature fluctuations. This ensures the shutters retain their appearance and structural integrity, preventing issues like fading, cracking, or peeling.



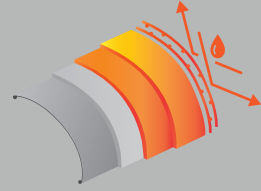
CORROSION RESISTANCE

The PUPA coating acts as a barrier against oxidation and corrosion, which is particularly important for aluminum surfaces that are exposed to moisture or salty air in coastal areas.



LOW MAINTENANCE

With its anti-scratch and dirt-resistant properties, the PUPA surface is easier to clean and maintain, requiring less frequent upkeep to keep the roller shutter looking new.

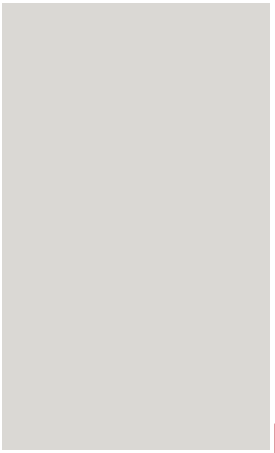


CHEMICAL RESISTANCE

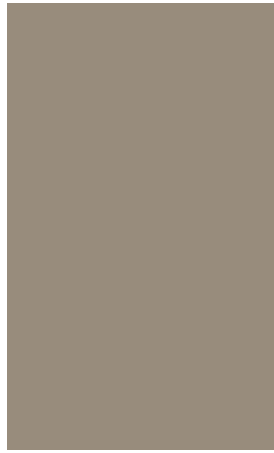
The surface can withstand exposure to a wide range of common cleaning agents, industrial pollutants, and environmental contaminants, ensuring it remains resistant to chemical reactions. This durable coating preserves the material's appearance and integrity over time, even in harsh conditions, making it ideal for outdoor applications.

Mix and Match

ZainOne operates a facility equipped with an advanced mixing station, specifically designed for the precise reproduction of custom colors. This system considers the total color difference (ΔE) and individual colorimetric components (ΔL , Δa , Δb) to ensure accuracy. The station is powered by specialized software for color formulation and efficient recycling of leftover materials, ensuring both precision and sustainability in production.



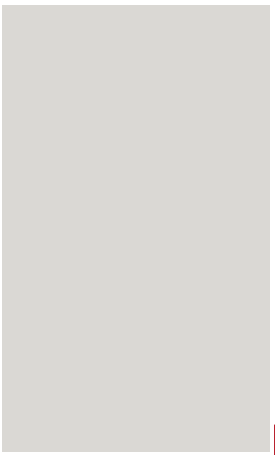
ZN3455R
IVORY WHITE



ZN3544R
BEIGE GRAY



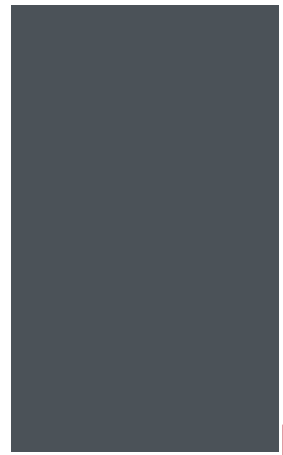
ZN3596R
CAFÉ NOIR



ZN3455M
WHITE ALUMINUM



ZN3354M
WARM GREY



ZN3384M
NAVY GREY

20⁺
YEARS
CUSTOM MADE
SOLUTIONS



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— ISO 9001 —
QUALITY MANAGEMENT

— ISO 14001 —
ENVIRONMENTAL MANAGEMENT

— ISO 45001 —
HEALTH & SAFETY MANAGEMENT

— ISO 17025 —
ACCREDITED LABORATORY