



**Coated
Aluminium Sheets
and Coils for
Roller Shutters
and other Building
Applications**

Products

Coated Aluminium Sheets and Coils for Roller Shutters and other Building Applications

Painted Aluminium Sheets and Coils for various Building Applications

Having recently completed significant investments in its coating facilities, ELVAL manufactures premium quality painted Aluminium Sheets and Coils for architectural applications in Plain, Corrugated and Stucco-finishes.

ELVAL material is used for:

- **Roofing • Wall-Cladding • False and Acoustic Ceilings**
- **Composite and Partitioning Panels • Facades**
- **Outdoor Venetian Blinds • Rain Gutters**

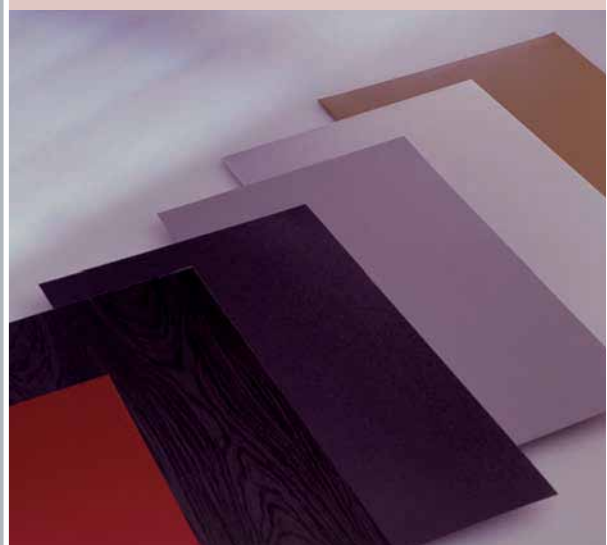
ELVAL's ENF external building façade system based on aluminium sheets of special alloy and coating¹ is suitable for cladding new as well as existing buildings as part of their refurbishment.

Aluminium Strips for Roller Shutters and Roller Cases

Committed to continuous development and full customer satisfaction, ELVAL provides painted strips for roller shutters in four alternative lacquering systems. ELVAL material combines perfect formability during roll forming and high resistance to scratch-abrasion for its use in all roller shutter systems.

Quality Certification

According to EN / ECCA and AA standards.



Coating Line

Production Range (mm)[®]

	Sheets	Coils	Roller Shutters
Gauge	0.30 to 2.00	0.18 to 2.00	0.25 to 0.50
Width[®]	max. 1,600	max. 1,600	min 80.0

Coils can be supplied with inside diameter core of 400 or 500mm

Roller Shutter Strips

Mechanical Properties

	3005-H46		3005-H48	
	Min.	Typical	Min.	Typical
Tensile Strength (N/mm²)	190	200-210	220	230-240
Yield Strength (N/mm²)	160	180	190	200-210
Elongation (%)	3	5	2	4

Lacquers

- Top side** Polyurethane-Polyamide or Polyester-Polyamide.
- Bottom side** Protective transparent lacquer 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.

Lacquering Systems[®]

	SYSTEM 1 Polyurethane/Polyamide	SYSTEM 2 Polyurethane/Polyamide	SYSTEM 3 Polyester/Polyamide	SYSTEM 4 Polyurethane/Polyamide
1st coat	Primer (5 +/- 2 µm)	-	Primer (5 +/- 2 µm)	Base coat
2nd coat	Polyurethane/Polyamide (20 +/- 3 µm)	Polyurethane/Polyamide (25 +/- 5 µm)	Polyester/Polyamide (20 +/- 3 µm)	Clear coat
Gloss	20 - 40%	20 - 40%	20 - 40%	15 - 35%

Exhibition center (roofing sheets)





ELVAL, besides offering a full range of standard colours according to the various commercial classifications, is also able to produce any customer-requested colour through a colour-matching technique, based on modern spectrophotometers and dedicated computer software.

This facility enables the correct reproduction of unclassified custom-made colours, taking into account the total colour difference, as measured by the ΔE parameter, the individual colourimetric components ΔL , Δa , Δb and the effect of metamerism. The above technique guarantees the reproduction of any colour in order to match the characteristics of a particular batch previously produced.



Painted Sheets and Coils

Range of Alloys and Tempers Available for Painted Sheets and Coils^⑤

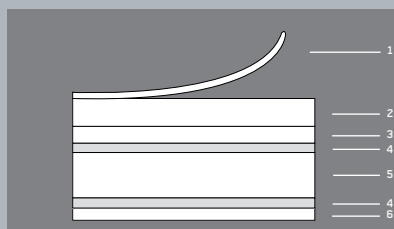
Alloys	-H42	-H44	-H46	-H48
1050	★	★	★	★
1200	★	★	★	★
3003	★	★	★	★
3004/3104	★	★	★	★
3005	★	★	★	★
3105	★	★	★	★
5005 ^⑥		★	★	
5052		★	★	★
5251	★	★		
5754	★	★	★	

Lacquering types and Characteristics^⑦

Painting Processes currently used for one or both sides

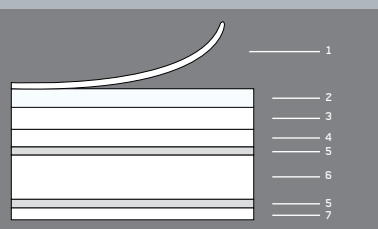
Lacquer type	Coats	Gloss ^⑧
Polyester (also metallics)	2	90% max
P.V.D.F. (also metallics)	2	35%
P.V.D.F. (also metallics)	3	35%

a. POLYESTER COATING



1. PE protection film (optional)
2. Top coat
3. Primer
4. Chromium phosphate layer
5. Al
6. Protection layer

b. P.V.D.F. COATING



1. PE protection film (optional)
2. P.V.D.F. Clear paint (optional)
3. P.V.D.F. Paint
4. Primer
5. Chromium phosphate layer
6. Al
7. Protection layer

Finishes

- Sheets can be produced either with protection PE film or paper interleaved.
- Film Protection: 35-70 mic transparent, 60-80 mic Blue and UV resistant, 50-100 mic Black and White UV resistance
- Sheets and Coils can also be delivered Stucco embossed^⑨

① Gauge 2mm, Alloy 5754 H42, Coating: 2 or 3 layer PVDF.

② Coil weight depends on the alloy and customer specifications.

③ Wider material can be produced upon request.

④ Other systems might be agreed upon customer's request.

⑤ Other tempers can be considered upon request.

⑥ Also produced for façade applications.

⑦ According to RAL colour range or as per customer samples. The thickness of the paint may generally be from 15 to 35mm on one or both sides- other thickness can be considered upon request.

⑧ Other gloss range can be agreed with the customer.

⑨ Depending on the alloy, max. gauge can be 1.5mm and minimum 0.35mm. Max. width 1.500mm





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