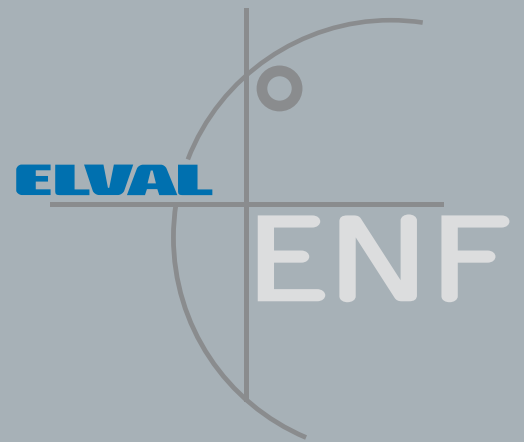


**Aluminium Coated Sheets and Coils  
For Architectural Applications**



## Aluminium Coated Sheets and Coils

Solid pre-painted aluminium for:

- Facades (ELVAL ENF™)
- Roofing
- False and Acoustic Ceilings
- Partitioning Panels
- Decoration and Construction applications
- Outdoor sun blocking systems



## ELVAL ENF™ Specifications

- Solid pre-painted aluminium, in Alloy 5754 (AlMg3). 5xxx series alloys provide higher anticorrosive properties compared to 3xxx series alloys.
- Top side surface coated with PVDF type of paint, thickness approximately 32 µm and reverse side coated with transparent lacquer, thickness approximately 5 µm.
- The top side surface is protected with black & white, UV resistant plastic film, thickness 75 µm, with printed arrows, which show the direction of paint application, to assist correct sheet orientation during final installation.
- Maximum width for sheets or coils is 1,550mm.

PVDF coatings are highly cross-linked paint systems which cure to an extremely weather resistant, easy to clean surface. ELVAL ENF™ facades are dirt-repellent and require very little maintenance. Minor dirt, if necessary, can be regularly cleaned, using warm water and neutral, environmentally friendly detergents.

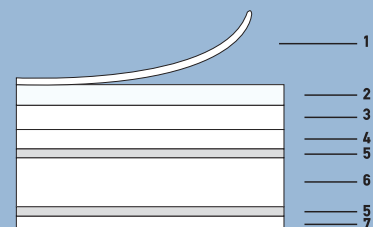
ELVAL ENF™ facades can be easily bent in any shape by the fabricator.

## Technical Specifications for Solid Pre-painted Aluminium Sheets

<b>THICKNESS<sup>1</sup></b>	2 mm (solid aluminium)
<b>WIDTH</b>	0.90m to 1.55m (+5/-0mm)
<b>LENGTH</b>	2.0-6.0m (+6/-0mm)
<b>RECYCLABILITY</b>	100%
<b>ALUMINIUM ALLOY</b>	5754 AlMg3 (min. Mg>2.6%)
<b>FIRE RESISTANCE</b>	Non combustible • Non flammable
<b>TENSILE STRENGTH (Rm) N/mm<sup>2</sup></b>	> 220
<b>YIELD STRENGTH (Rp0.2), N/mm<sup>2</sup></b>	> 140
<b>ELOGATION A<sub>50</sub> %</b>	> 9
<b>MODULUS OF ELASTICITY</b>	70000
<b>THERMAL EXPANSION mm/m/100°C</b>	2,4
<b>WEIGHT</b>	5,4 kgr/m <sup>2</sup>
<b>PAINT DATA</b>	
TOP SIDE THICKNESS OF PAINT	29-32 µm
PAINT SYSTEM (TOP SIDE)	<b>PVDF 2&amp;3</b>
BACK SIDE	Clear protection lacquer

### P.V.D.F LACQUERING SYSTEM

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. Aluminium
7. Protection layer



(1) Other thicknesses can be available upon customer request.

(2) Warranty up to 15 years depending on project location and installation use.

(3) PVDF coatings from well-known global paint suppliers.

## Non Combustible - Solid Pre-painted Aluminium

The ELVAL ENF™ aluminium sheet is non combustible and completely in line with international fire protection regulations for building and construction materials.

The non combustible ELVAL ENF™ is necessary in fire escape staircases as well as in other areas, that could possibly turn into a trap, in case of fire.

For this reason the use of ELVAL ENF™ is recommended in airports, shopping malls, public transport facilities (metro or railway stations), schools, hospitals, etc and especially high rise buildings, which should not be covered by smoke, in case of fire, in order to facilitate prompt and safe evacuation.

Certain aluminium composite panels may come close to the fire resistance properties of the solid ELVAL ENF™ aluminium sheet but at very high cost. In construction projects, where composite panel is chosen, the ELVAL ENF™ selectively may be recommended to cover at reasonable cost, critical areas, where strict fire resistance regulations are needed.





## ELVAL ENF™ Main Advantages

- Non combustible solid pre-painted aluminium.
- High energy performance. Buildings with low energy consumption for both heating in the winter and cooling in the summer. Energy saving performance that fully conforms to the European Commission Directive, contributing to the improvement of the urban environment.
- Maximum longevity, outstanding corrosion resistance.
- Robust, low weight construction with high earthquake resistance
- Low maintenance cost
- Fully recyclable material
- Wide choice of colors and high quality of long life coating
- Contemporary architectural design
- Customized form and fixing system

**ELVAL**

**ENF**

## **ELVAL COLOUR**

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