

# EDGES MATTER TOO

Fans with **Magnelis<sup>®</sup>** coating



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Advanced corrosion protection, even on cut edges.

Casals incorporates the **Magnelis® ZM310** finish into a selection of fans and ventilation boxes designed for demanding environments.

- Increased durability
- Enhanced reliability
- Reduced maintenance

## What is Magnelis®?

**Magnelis®** is an advanced metallic coating that provides superior corrosion protection compared to traditional galvanizing.

Its composition includes:

- **Zinc (Zn)**
- **3,5% Aluminium (Al)**
- **3% Magnesium (Mg)**

Magnesium creates a stable protective layer that limits the spread of corrosion, even in critical areas such as cut edges, perforations, or joints.

**Magnelis® ZM310** features a coating mass of 310 g/m<sup>2</sup> (approx. 25 µm per side), providing high corrosion resistance for industrial applications.

## Active protection on cut edges

One of the main advantages of **Magnelis®** is its ability to protect cut edges without the need for additional treatments.

Tests have shown that the coating generates stable protection even when the steel is exposed during cutting, reducing the need for repainting or subsequent treatments.

This aspect is especially relevant for products manufactured from folded sheet metal, such as ventilation boxes.

**Magnelis®**

## Superior durability in demanding environments

**Magnelis®** offers superior corrosion resistance compared to standard galvanizing, especially in humid or aggressive environments.

It is particularly suitable for:

- Outdoor installations
- Industrial environments
- Coastal areas
- High-humidity environments
- Agricultural and livestock facilities
- Wastewater treatment plants
- Food industry
- Applications with difficult maintenance access

Corrosion tests indicate that **Magnelis® ZM310** can be used in environments with high corrosivity categories **C4** and **C5** according to **ISO 12944-2**.

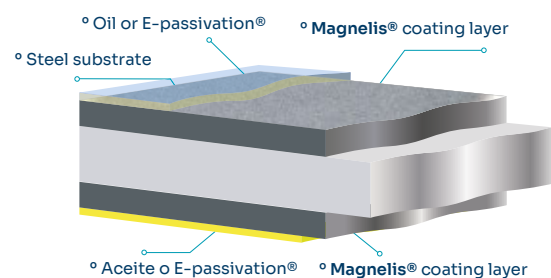


RISE certification



EPD certification

Under certain conditions, the coating can achieve a service life of more than 50 years.



SOURCE: Magnelis® DIBt Certificate (ArcelorMittal)

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Magnelis®

## Advantages of the Magnelis® finish

- Higher corrosion resistance than standard galvanizing
- Cut-edge protection
- Longer equipment service life
- Reduced maintenance costs
- High stability in humid environments
- Good formability and mechanical strength
- Compatible with painting and other treatments
- 100% recyclable material

**Magnelis®** optimizes the Total Cost of Ownership (TCO) of the equipment, especially in installations where durability is a key factor.

## Ventilation applications

The **Magnelis®** finish is available on a selection of Casals fans and ventilation boxes designed to operate in demanding conditions.

Recommended applications:

- Outdoor ventilation boxes
- Roof-mounted fans
- Industrial facilities
- Farms and the livestock sector
- Air handling plants
- High-humidity environments
- Installations near the sea

## Product availability

The **Magnelis®** finish is available upon request for various models.

Consult our technical team to select the best solution based on the installation environment.



◦ Additional models and configurations with MAGNELIS® finish available on request



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