



Technical **Safety** Walkways 

2026

PRESENTATION

In 2020, as part of Alusín Solar's business, we began manufacturing safety walkways for accessing the roofs of industrial buildings.

Since 2026, we have operated as an independent company, **CAREX® Walkways**, to provide the best service to all our clients.



Having over **5000 m² of factory facilities** in Avilés, Asturias. Industrial heartland of Spain.



290 m/h production capacity with our 12-station roll forming mill.



Supplying over **32 countries**.



100% recyclable materials with CE marking.



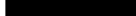
We are **ISO 9001, 14001 and 45001** certified.

“ We are the first and leading Spanish manufacturer of technical roof walkways ”



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**What
is CAREX?**

01



CAREX®

TECHNICAL WALKWAY

“

A technical safety walkway specifically
designed for roof traffic

”

France



Colombia



Spain





SUCCESS STORIES

We have several success stories available to view **actual installations on various roofs**, both nationally and internationally.

In the images on the left:

- **Port of Valencia – Vertice Engineering, Spain:**

- 1215 m of CAREX® 600 mm for safe passage in the solar plant built covered over the vehicle silo of Valencia Terminal Europa with marine environments C5-M.

- **TSK Group in Ivory Coast, Africa:**

- 247 m total of CAREX® fastened with 1200mm long Gulpiyuri 30 rail assembly.

On **our website** the success stories can be **downloaded in PDF format**:



**We have many more
success stories here**





**Why a technical
walkway?**

02



WHY A TECHNICAL WALKWAY?

The **constant activity on industrial rooftops**, whether for equipment projects, solar panel installation or routine maintenance tasks, implies a significant increase in the movement of workers and, as a result, raises the challenges in terms of occupational safety.

With the installation of technical safety walkways:

- **Access and guide** to safe passageways areas is facilitated. Considered as a suitable collective protection measure.
- **Safer working at heights** by preventing mechanical risks. Especially falls at the same level and at different levels.
- **Decreased** deterioration of the roof surface due to **traffic or falling objects**.
- Prevention of accidents due to falls. **31% of fatal accidents** due to falls occur from building roofs and constructions. *

*Data taken from [ASEPEYO's guide Falls from heights, a risk in all companies](#).



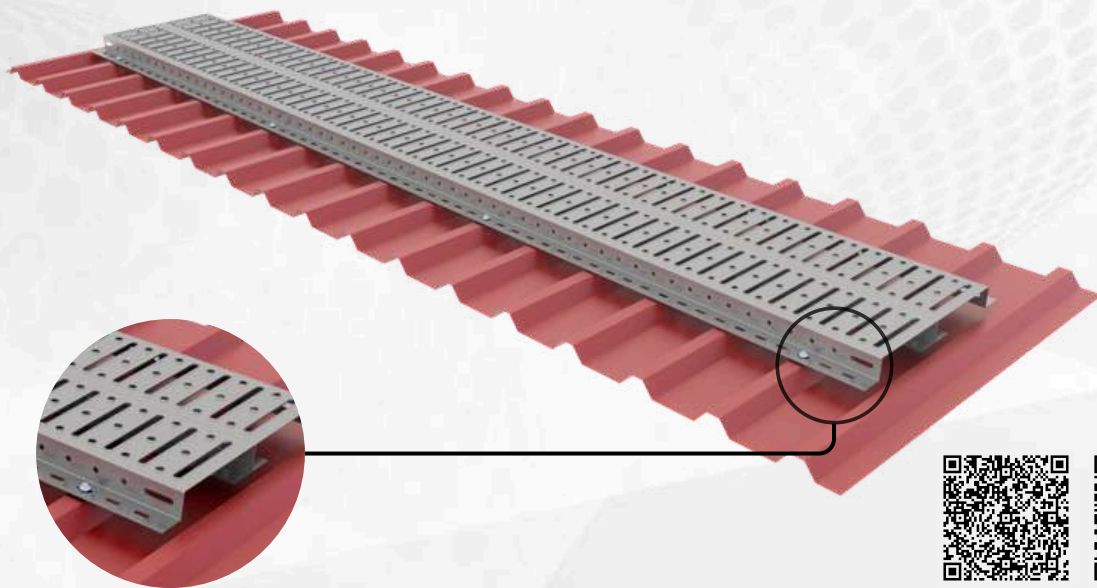
**CAREX® technical
specifications.**

03

**Image provided by our distributor Club Técnico Anticaídas Solutions*

CAREX® TECHNICAL WALKWAY

Anti-slip safety system configurable according to the roof requirements.



CATALOGUE



WARRANTY

TECHNICAL CHARACTERISTICS

- S350GD + ZM620 steel as per UNE-EN 10346.
- MAGNELIS® Steel coating.
- Useful width: 400 mm.
- Weight 9.17 kg/m.
- Available in two lengths: 3 y 1.5 m.
- Length for FCL export: 2.16 m.
- Maximum classification R-13 according to DIN-EN 16165: 2021 Annex B Ramp test with shod foot.
- 50 mm bottom flanges for better weight distribution on the roof.
- Guaranteed watertightness through a double EPDM gasket system.
- 100% compatible with Alusín Solar structures.
- Option of adaptation to the desired width.



Did you know that?

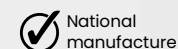
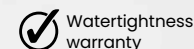
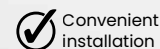
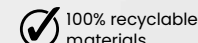
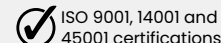
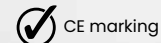
The Cares River route is one of the best known trails in Northern Spain. It runs between the Leonese village of Posada de Valdeón and the town of Poncebo.



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CALCULATED LOADS



OVERLOAD

Maximum use 2 kN/m²



POINT

200 Kg as per UNE-EN 12811-1: 2005

SYSTEM COMPONENTS

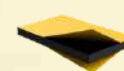
CAREX

EPDM

FASTENING

G30 PROFILE

SUPPORT



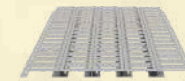
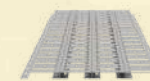
SYSTEM OPTIONS

400

600

800

1000



Spain



Ecuador



Spain





NEW

EXPORT OPTIONS

At CAREX®, we continue to **evolve to adapt to the needs of our international distributors**, optimizing our formats to maximize efficiency in maritime transport.

Thanks to the new export length of 2.16 m, we have doubled the volume per container, increasing from 600 m³ to 1,300 m³ of CAREX® per shipment.

This translates directly into a significant reduction in transport costs per linear meter, improving competitiveness in every project.

In the images on the left, you can see a shipment made to:

- **El Salvador:** 20-foot container with 1,300 m of CAREX® 400 mm in the new 2.16 m export format.

At CAREX® we continuously work to offer more efficient, cost-effective solutions adapted to the demands of the international market.



INSTALLATION OPTIONS

To facilitate the **quick installation** of the service walkways, each element incorporates a specifically designed anchoring tab that ensures secure attachment to the roof.

Installation packs are available that include:

- **Direct installation** to metal sheeting.
- **G30 rails** with screws for connecting to CAREX®.
- **Rubber supports**.



CAREX®400 mm on G30 profile (Gulpiyuri 30)



Direct installation to metal sheeting.



G30 rails with screws for connecting to CAREX®.



Installation on Rubber Supports

NEW

SLIPPERINESS TEST

To certify the grip of CAREX®, laboratory tests were conducted to determine the slip resistance of pedestrian surfaces. Evaluation **methods according to DIN-EN 16165:2021** Annex B Ramp test with shod feet

CAREX®, Safety Technical Walkway, has obtained **Category R13**. This is the highest classification group for this test, as it exceeds a 35° slope.

In other words, using the CAREX® Technical Walkway on slopes of up to 36° is completely safe according to DIN-EN 16165:2021.

We have the relevant **laboratory accreditations** certifying the results available for review.

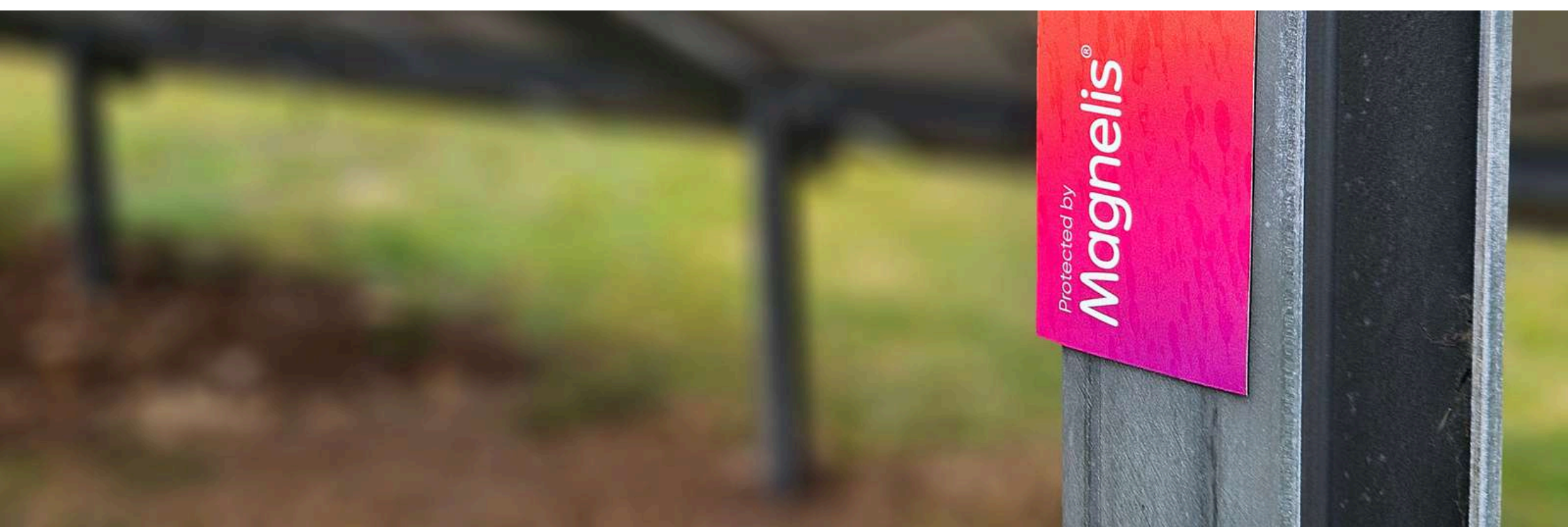


We have more slippery videos here



DIN-EN 16165:2021

**Máxima
clasificación
R-13**



S350GD STEEL + MAGNELIS® ZM620

Magnelis® is a carbon steel coated on both sides with a zinc-aluminum-magnesium alloy. Specifically, it is composed of 93.5% zinc, 3.5% aluminum, and 3% magnesium.

- It offers **excellent corrosion resistance**, at least three times greater than galvanized steel in outdoor applications.
- Complete protection is provided by Magnelis®'s **self-healing properties** on cut edges.
- It provides **high resistance** in very aggressive C5 environments (marine, chloride, or ammonia environments).
- It is **more economical** than batch-galvanized steels due to its simpler production process.
- It has **reduced maintenance costs** compared to post-painted steels.

Magnelis® has a uniform metallic appearance, ranging from slightly matte to bright. Variations in appearance and a tendency to darken may occur. This aesthetic change does not affect corrosion protection.

Furthermore, S350GD steel meets the mechanical and chemical properties specified by **UNE-EN 10346**. The ZM620 coating implies 620 g/m² on both sides.

**Text taken from the website: constructalia.arcelormittal.com/*



NEW

CORROSION TESTS

Salt spray corrosion tests are accelerated tests designed to evaluate the resistance of metallic materials and coatings to corrosion.

They are widely used in the automotive, aerospace, marine, and construction industries to **ensure the durability of materials** in harsh environments.

The images on the left show the results obtained for:

- **Steel with Magnelis® coating.**
- **Hot-dip galvanized steel.**

We have the **relevant laboratory accreditations** that certify the results for consultation.

You can find a full explanation in video format on **our website**.



**We have an
explanatory video
here**





CAREX

**How do we
manufacture CAREX®?**

04



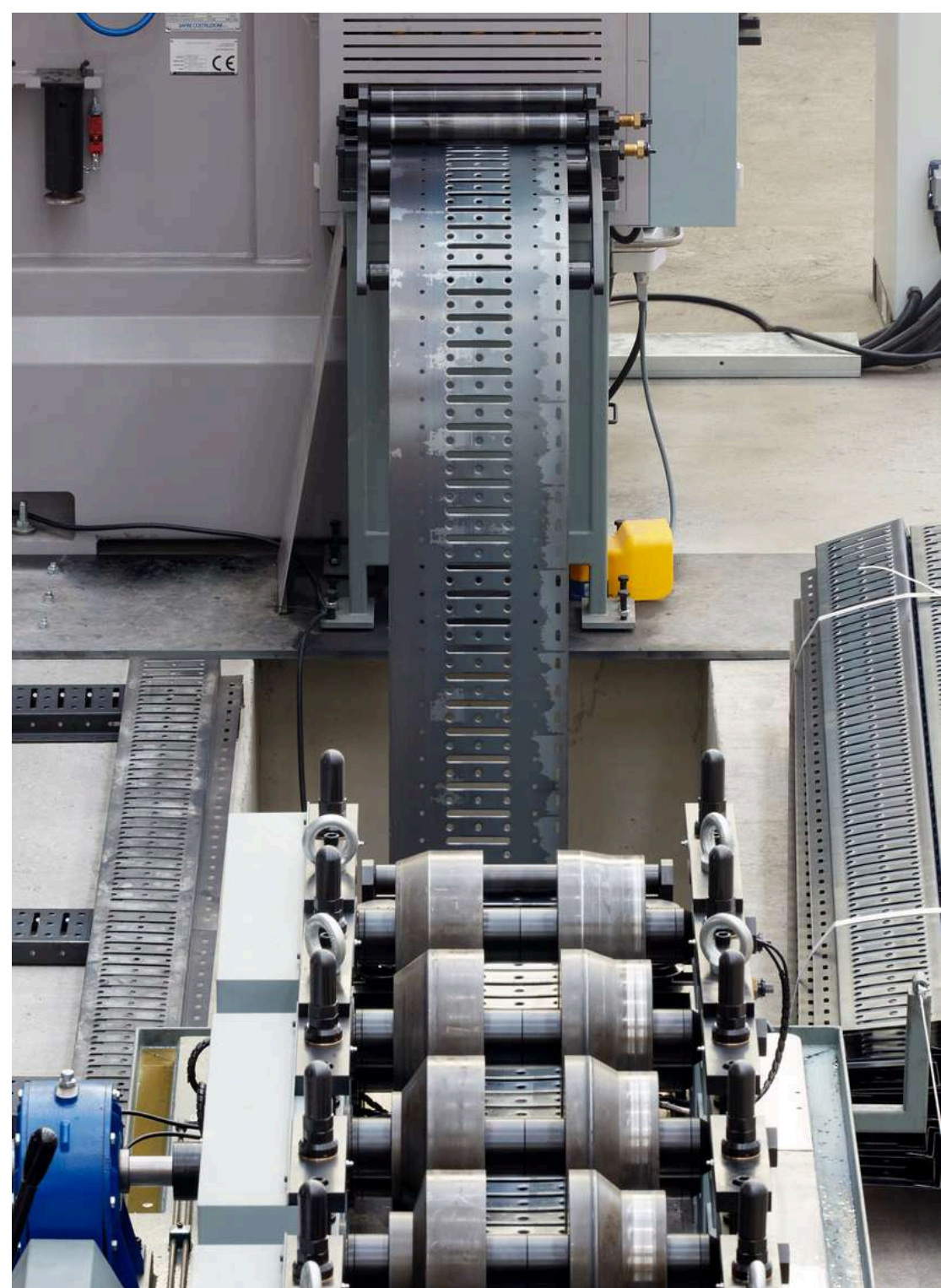
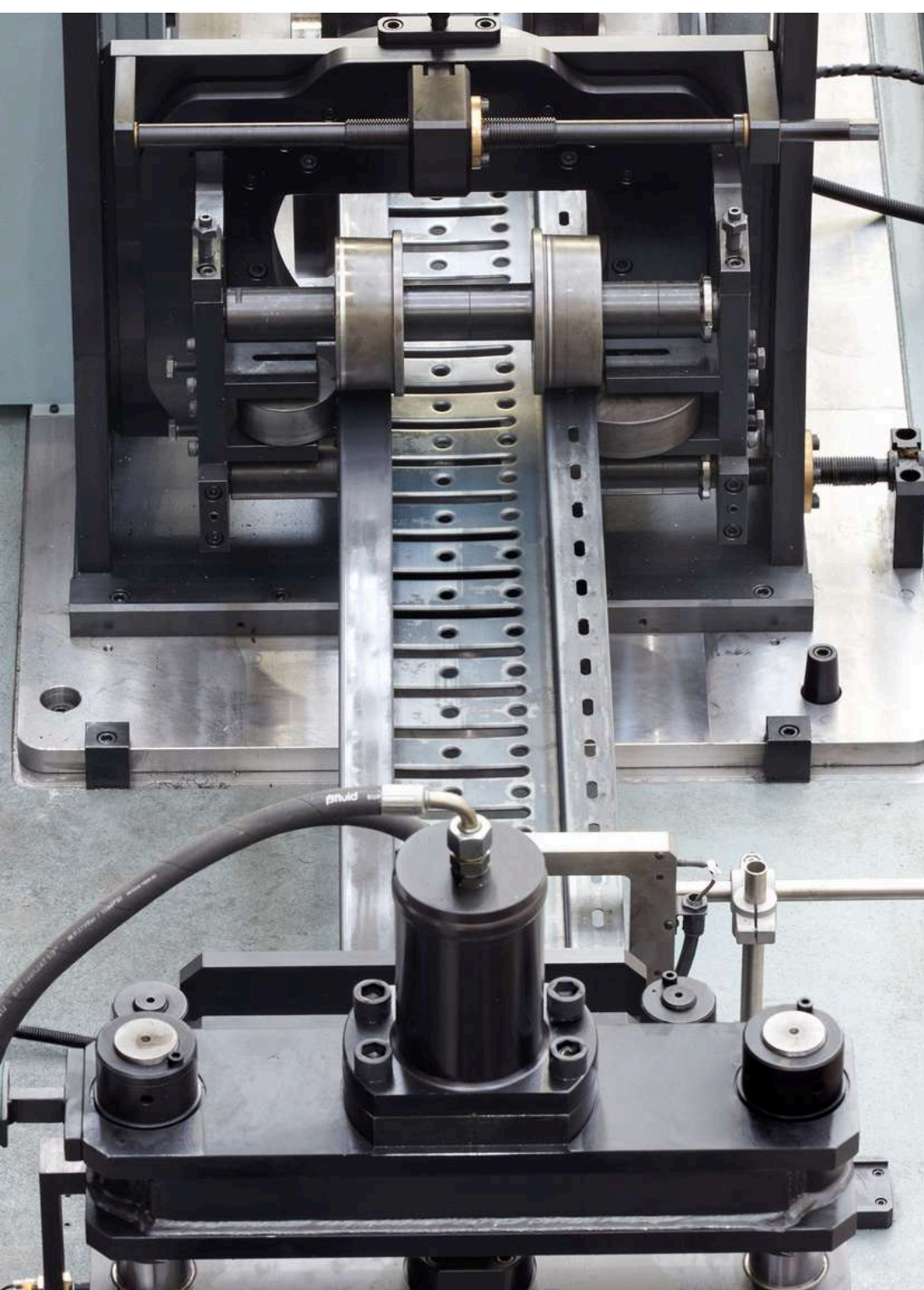
CAREX® MANUFACTURING PROCESS

Since 2020 we have opted for **our own in-house production** since 2020. To this end, possessing all the required infrastructure in a **27-metre long production line**. Noteworthy is the **12-station roll forming mill** to carry out the entire cold forming process with **working thicknesses of between 1.5-3 mm**. The maximum manufacturing length is 5850 mm.

The process is summarised as follows:

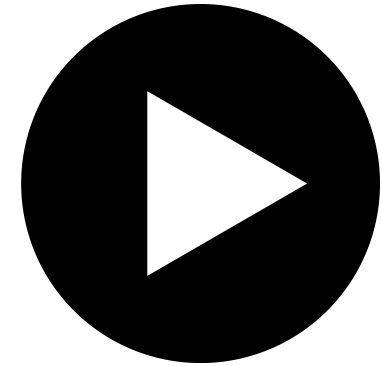
- Arrival of the 5 tonne metal band strip treated with **MAGNELIS protection**.
- Positioned on **Wire feeder** and flattening press to eliminate imperfections.
- Groove and holes machining in the **100 tonne press**. This is the key step in generating the CAREX anti-slip surface.
- **Cold forming** in the 12-station roll forming mill where the CAREX part is shaped into the required shape.
- Finally, in the Grinding part, the **automatic cutting line** confers the required length to the part.

Afterwards, storage. Highlighting the option of **direct shipment** to over 32 countries.





TECHNICAL VIDEO LIBRARY



On our YouTube channel there are explanatory videos

- How do we **manufacture** CAREX?
- What is MAGNELIS?
- **Actual** manufacturing **speed**
- **Assembly** options
- How **many times** do you walk on a roof?



An aerial photograph of a large, sloped roof with light-colored corrugated metal panels. A worker wearing a yellow safety vest and a white hard hat is walking along a long, narrow metal track or channel that runs diagonally across the roof. The track has several small, rectangular distribution points spaced along its length. The text 'CAREX® distribution points.' is overlaid in the bottom left corner.

**CAREX® distribution
points.**

05



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Europe



LATAM

