

**#THE >> ASU << CHALLENGE**  
**Universal Accessibility and Safety**

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[ENGINEERING]

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# # THE >> ASU << CHALLENGE

## Universal Accessibility and Safety

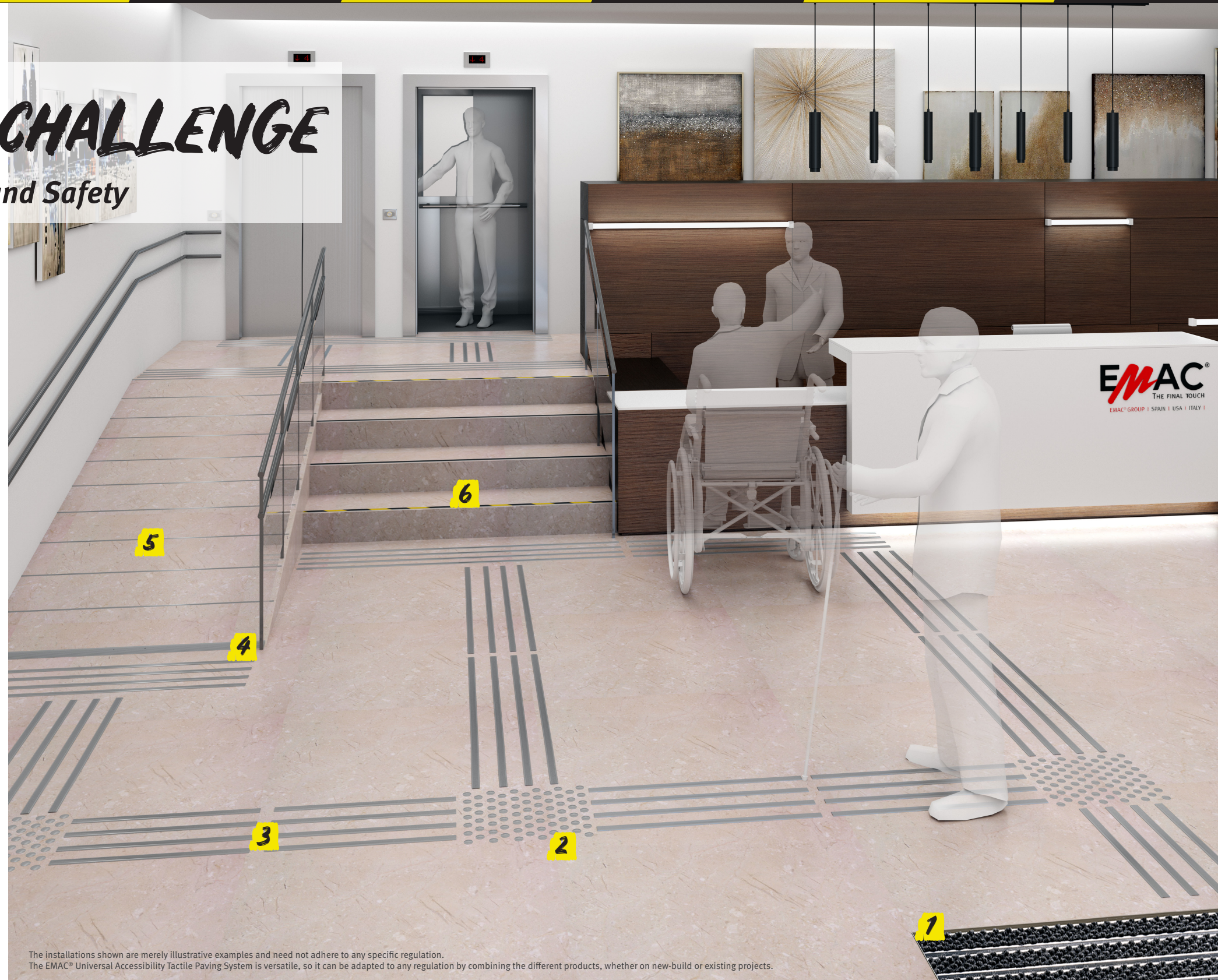
Today's world is a dynamic one, so the movement of people across the length and breadth of countries has become a right. That is why different facilities must be conditioned so all individuals may enjoy them equally. People experience many diverse situations in their lifetime. For example, you may use crutches or a wheelchair temporarily after an accident, find yourself pulling a shopping trolley or pushing a baby carriage. You might suffer reduced mobility in old age. So at some point you may need to use **facilities that are accessible and safe.**

This is why the concept of accessibility is no longer solely linked to people with some sort of disability but to anyone of any condition. It has evolved towards what we call **Universal Accessibility – this means accessibility for everyone.**

In recent years many regulations have emerged (and continue to do so) on the subject of accessibility. While some are mandatory, others are merely installation recommendations. There is a growing trend for more and more projects to declare it obligatory to install elements ensuring accessibility, whether at the owner's discretion, following local ordinances or due to the awareness-raising of project executors.

**The solutions to Universal Accessibility and Safety are many, and** their application should not be limited to large projects such as airports, stations or shopping centres. They should also extend to smaller installations like offices, shops and public buildings to ensure and provide any person's transit at any time. We must contribute to the development and evolution of spaces by promoting the creation of **more accessible, inclusive and safe urban environments.**

**It is the responsibility of every stakeholder with decision-making power in the construction sector to foment and promote the use of such solutions. Only then can we build fairer and more inclusive societies for everybody.**



The installations shown are merely illustrative examples and need not adhere to any specific regulation. The EMAC® Universal Accessibility Tactile Paving System is versatile, so it can be adapted to any regulation by combining the different products, whether on new-build or existing projects.

- 1 Novomat® Fosa | Technical Entrance Mat
- 2 Novotop Access Aluminium | Podotactile System | Tactile Nails
- 3 Novoband Access | Podotactile System | Guidance Bands
- 4 Novonivel® Access | Accessibility and Safety in ramps and unevenness
- 5 Novostrip SP | Accessibility and Safety in ramps and unevenness
- 6 Novopletina® Safety | Accessibility and Safety in ramps and unevenness





## APPLICATION OF PODOTACTILE SYSTEM



### Inner Guidance path

- Guidance bands 3 mm high
- Total guidance bands width and number of parallel bands as per regulations. In the example, 4 bands and width greater than 40 cm
- Intersections / forks / turns:**
  - Tactile nails 3 mm high laid out in offset rows or grid as per regulations. In the example, offset rows.
  - Total width of the intersection island as per regulations. In the example, 50 x 50 cm
- Hazard point / warning / information:**
  - Bands running transversely to the pathway 3 mm high and width as per regulations. In the example, the width of the element to be indicated
  - Depth as per applicable regulations. Example of 80 cm



### Outside guidance path

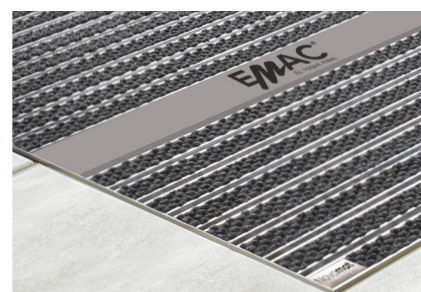
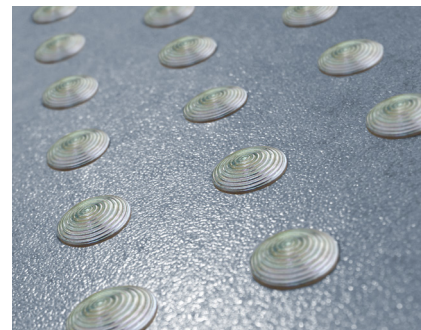
- Guidance path bands 5 mm high
- Total guidance bands width and number of parallel bands as per regulations. In the example, 4 bands and width greater than 40 cm.
- Intersections / forks / turns:**
  - Tactile nails 5 mm high laid out in offset rows or grid as per regulations. In the example, offset rows.
  - Total width of the intersection island as per regulations. In the example, 420x420 cm
- Hazard point / warning / information:**
  - Tactile nails 5 mm high laid out in offset rows or grid as per regulations. In the example, offset rows.
  - Width as per regulations. In the example, the width of the element to be indicated
  - Depth as per applicable regulations. Example of 42 cm



### Guidance path - Reduced spaces

- Guidance path bands 5 mm high
- Total guidance bands width and number of parallel bands as per regulations. In the example, 3 bands and width greater than 30 cm.
- Intersections / forks**
  - Tactile nails 5 mm high laid out in offset rows or grid as per regulations. In the example, offset rows.
  - Total width of the intersection island as per regulations. In the example, 420 x 420 cm
- Hazard point / warning / information:**
  - Bands running transversely to the pathway 5 mm high and width as per regulations. In the example, the width of the element to be indicated
  - Depth as per applicable regulations. Example of 80 cm

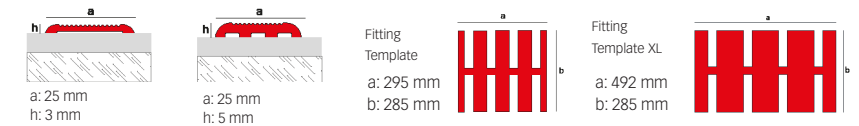
## PODOTACTILE SYSTEM



### Novoband Access Aluminium

**Novoband Access** is a profile made of natural aluminum designed to be installed as an element of guidance for people with visual disabilities within the EMAC®'s Universal Accessibility and Safety System. This profile

Is easy to install on finished floorings. Highly resistant, allows intense traffic and serves not only as an element of guidance for the disabled but also to warn of potential dangers.

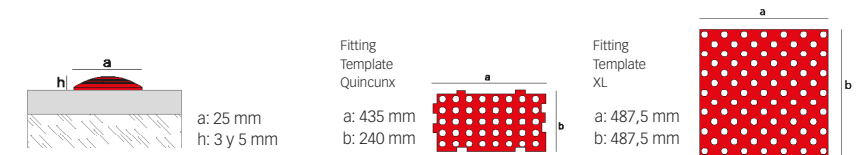


### Novotop Access Aluminium

The **Novotop Access aluminum** tactile nails provide a warning solution to identify areas with obstacles, or areas where there is a change of level or an unprotected gap, such as staircases and open platforms.

According to its tactile texture, and its anti-slip design, they are easily identified by users.

With the fitting template, the nails layout is adjusted optimally for the tactile function and the installation is simplified.



### Novotop Access Zinc-Plated Steel

The **Novotop** tactile nails provide a warning solution to identify areas with obstacles, or areas where there is a change of level or an unprotected gap, such as stairs and open platforms.

Made of zinc-plated steel, are ideal for outdoor and indoor places, and have tactile and anti-slip designed texture, so they are easily identified by users.

Its exclusive installation, with no adhesives, allows an important saving cost. They can be installed by using the fitting template (in option).

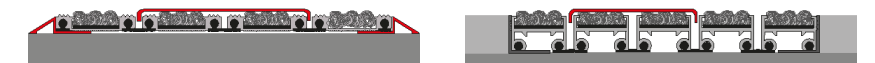


### Novomat® Technical Entrance Mats

They support an intense traffic of people and favor the accessibility to people with reduced mobility.

For people with visual impairment it allows them to differentiate entry / exit of establishments.

They act as a safe transition zone between wet outdoor spaces and dry interiors or pavements with different degrees of slipperiness as indicated by the CTE in the DBSUA.

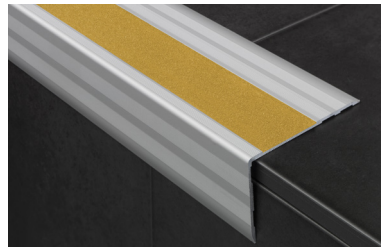




# ACCESSIBILITY & SAFETY SOLUTIONS



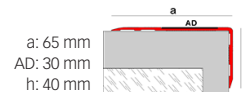
## Novopeldaño® Safety



Stair nosing to be installed after tiling, made of anodized aluminum silver matt finish. This profile has a non-slip strip that helps to fulfill the DB-SUA from CTE (Spanish Technical Building Code) as it improves the value of slip resistance of the flooring where it is installed.

The non-slip strip is classified as R13 according to the DIN 51130 standard. Available in four different colors: black, yellow, black/yellow, grey.

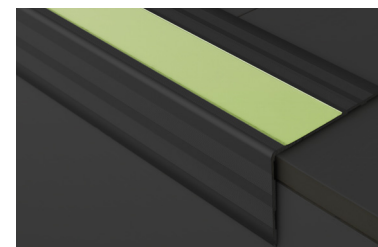
The contrast between the profile and the band guarantee its adaptation to the Accessibility Guidelines.



# ACCESSIBILITY & SAFETY SOLUTIONS

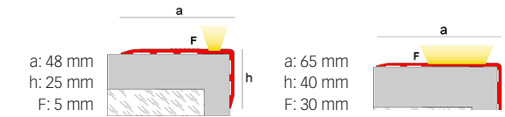


## Novopeldaño® Lumina



Stair nosing to be installed after tiling work, made of anodized aluminum silver matt finish. This profile has a luminescent strip useful as a guide in case of sudden darkness. With striated surface, it is light and easy to install after tiling.

The photoluminescent strip exceeds the requirements of luminescence (class B) of UNE 23035/4:2003 standard related to photoluminescent marking systems in fire safety.



## Novopletina® Safety

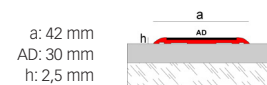


Plate profile made of anodized aluminium, matt silver finish, with an insert of non-slip strip with different colors.

This plate can be installed as a flooring separator, in entrances, stairs or ramps...

The non-slip strip is classified as R13 according to the DIN 51130 standard. Available in four different colors: black, yellow, black/yellow, grey.

The contrast between the profile and the band guarantee its adaptation to the Accessibility Guidelines.



## Novopletina® Lumina

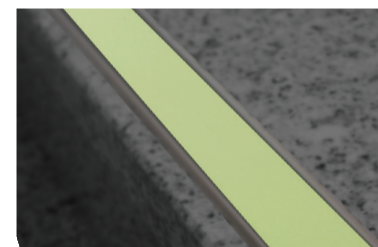
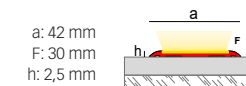
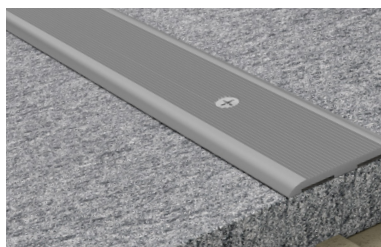


Plate profile made of anodized aluminium with a photoluminescent strip that serves as a guide in case of sudden absence of light. It can be installed as a flooring separator, in entrances, stairs or ramps and also as a luminous guide in walls.

The photoluminescent strip exceeds the requirements of luminescence (class B) of UNE 23035/4:2003 standard related to photoluminescent marking systems in fire safety.

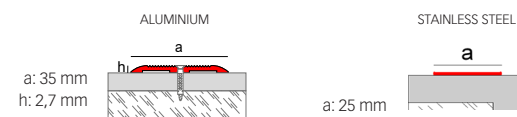


## Novopletina® Aluminium / St. Steel



**Novopletina® aluminium** is a striated plate profile made in anodized matt silver aluminum designed to be installed in stairs, ramps or in areas where the safety against falls wants to be assured. This highly resistant profile is delivered with countersunk holes and is easy to install on finished floorings by using fixing screws.

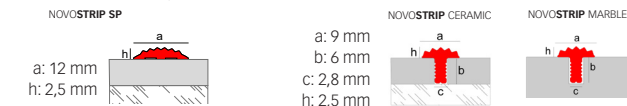
**Novopletina® st. steel** with non-slip surface is for stair nosing and ramps. Its installation does not require work so it is a profile suitable for rehabilitation or reform works.



## Novostrip SP / Novostrip

**Novostrip SP** is a profile made of extruded aluminium intended to be installed in stairs, ramps or passage areas with marble, terrazzo or similar floorings, to guarantee safety against eventual falls. This profile is easy to install on finished floorings, it will be enough by applying adhesive. Due to its geometry, it's ideal for installing it in any environment, specially in old areas which need a better safety transit in already tiled stairs. Thanks to its tiny design, can be integrated on the flooring. Available in matt silver and champagne finishes, two colors wich perfectly fits with the latest trends.

**Novostrip** is a profile made of extruded aluminium intended to be installed in stairs, ramps or passage areas with marble, terrazzo or similar floorings, to guarantee safety against eventual falls. Very easy to install. You will only need to make a groove by using a marble saw cutter, and then insert the profile into it. It is recommendable reinforcing the installation with adhesive.

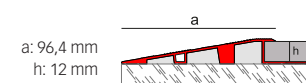


## Novonivel® Forte



Transition profile with wide face side, whose surface has been striated to offer better resistance to slip. Its reinforced base, allows it to support loads and a high level of transit.

**Novonivel® Forte** helps to fulfill with the DB-SUA from CTE (Building technical code) and it is available in matt silver.



## Novonivel® Access

Transition profile made of aluminum and designed to avoid discontinuities in the pavement. The profile has a wide and smoothed visible side with small grooved that favor the slide resistance. Delivered with countersunk holes to improve its fixing by using screws (not included). The inner part is reinforced to improve its load support.

Available in anodized aluminum silver mat color with protective film.

