

GRADUS

nosing profiles by **eomac**

your guide to
safe stairs





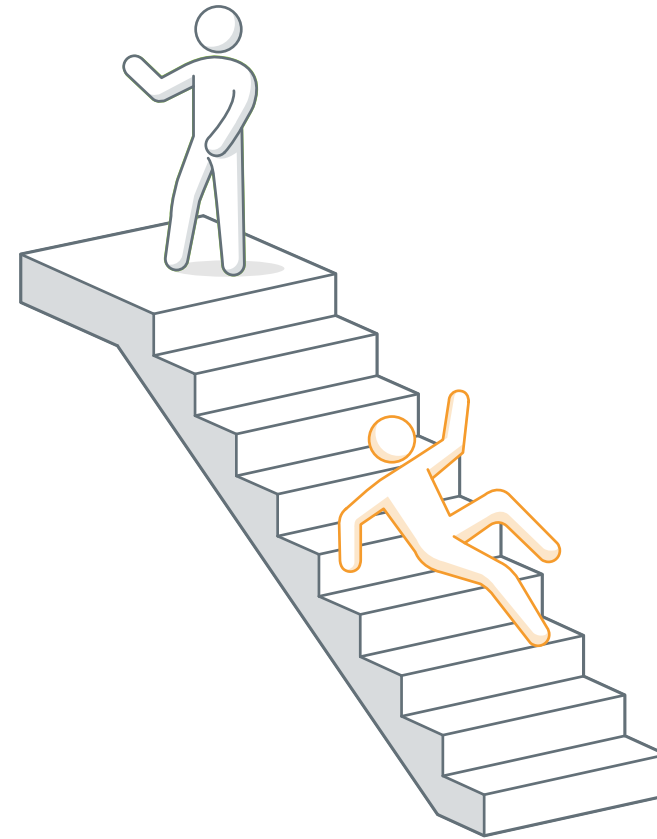
Over 100,000 injuries reported on non-domestic stairs every year, 100 deaths result directly from falls, slips and trips on stairs. Creating safe and accessible staircases matters. Get it wrong, and it could cost a great deal more than just a replacement. Don't take the risk.

All GRADUS nosings are tested and complies with the following standards:

LIFE SAFETY CODE NFPA - PART 7.8.1.33
ADA STANDARD 4.9 & 504

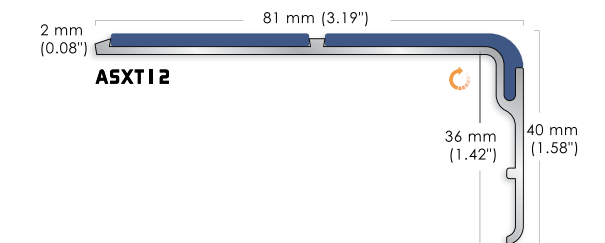
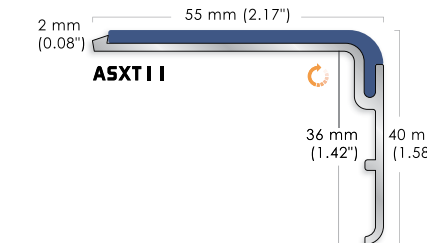
STEP 1: Choose the right nosing for the step.

If the depth of the tread is less than 300mm the risk of an overstep is increased. A stair nosing that wraps around the riser will reduce this risk by increasing the slip-resistance at the step edge. GRADUS stair nosings offer a wide range of profiles that satisfy all the latest building standards and guidelines and accommodate a wide range of floorcoverings. Factory-bonded and extended insert designs ensure maximum safety under foot.

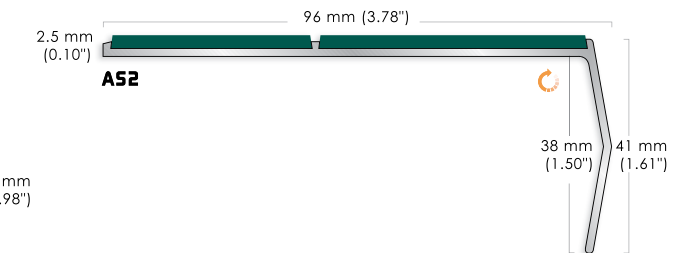
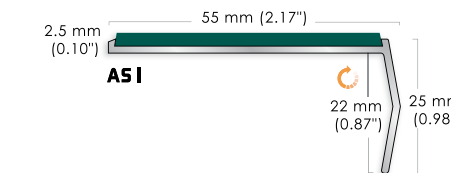


GRADUS NOSING PROFILES* by eomac

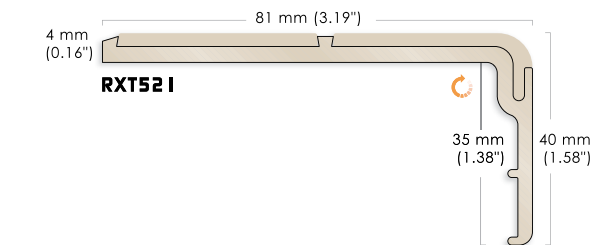
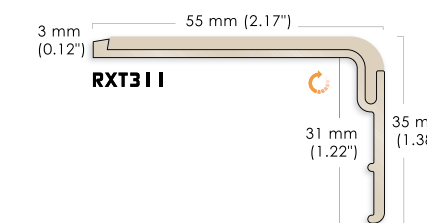
XT™ Aluminium



Traditional Aluminium A Range



XT™ PVC-U Hardnose Satin Finish



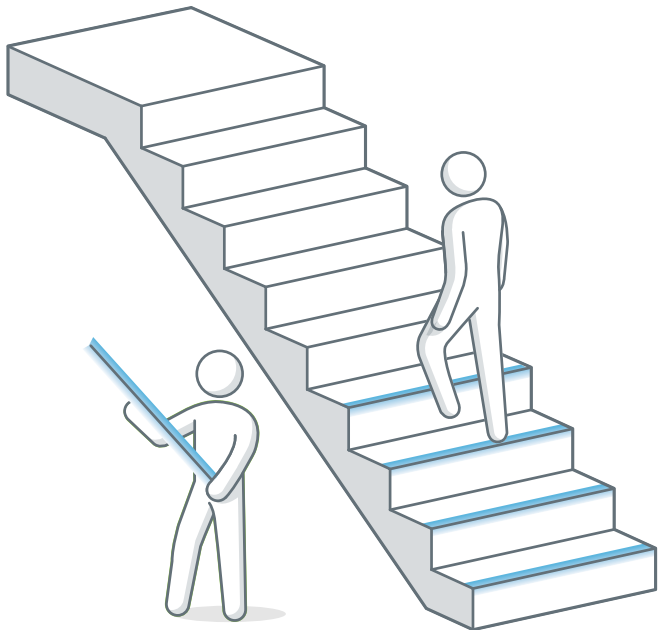
*For illuminated nosing profiles, please visit [eomac.com](https://www.eomac.com) or contact us.

*More nosing profile types available as requested.

STEP 2: Select the correct slip-resistance for the conditions.

Ensure the required level of slip-resistance is achieved by selecting the correct insert for the environment. An insert provides a surface that creates friction between the sole of the shoe and the step edge, hence providing slip-resistance and reducing the risk of slips on stairs.

- Interior installations – not always dry conditions. Consider whether there is a risk of the stair nosing becoming wet and select the correct insert accordingly.
- Safety flooring – select an insert that matches or improves the slip-resistant qualities of the flooring.



GRADUS INSERT TYPES by eomac

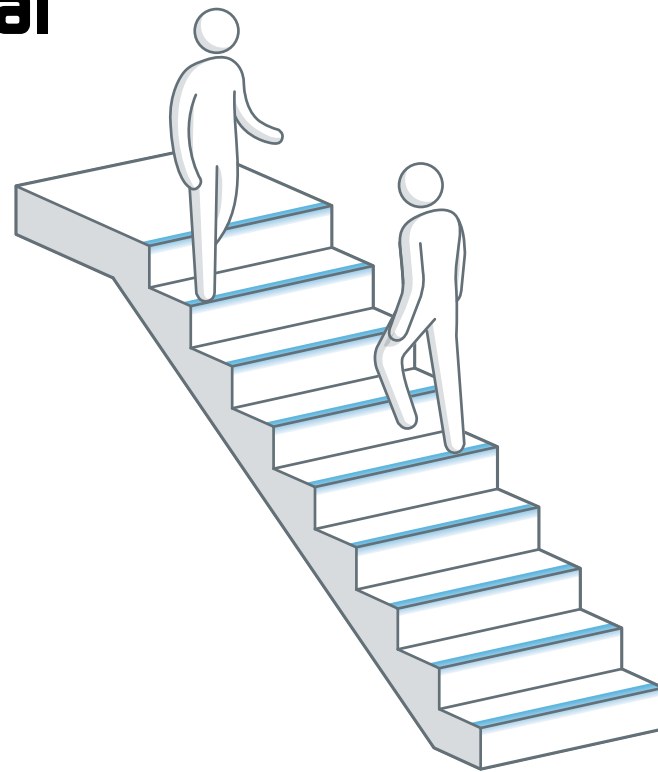
A pendulum test is used to assess slip-resistance. A Pendulum Test Value (PTV) of greater than 36 is required in dry conditions, as well as when the stairs are at risk of becoming wet through walked in moisture and spillages. All GRADUS inserts are tested for slip-resistance.



GRADUS INSERT TYPES	CONDITIONS	APPLICATIONS	MATERIAL
XTRA-GRIP PLUS	Interior Wet/Dry	Enhanced insert bond system for areas subject to more frequent cleaning e.g. catering and food preparation areas.	PVC with mineral aggregate and PVC wear layer.
INTERIOR	Interior Dry	Areas where there is no risk that the stairs will be contaminated by moisture.	PVC with mineral inclusion - standard or grained surface.

STEP 3: Choose a colour that creates a visual and tonal contrast.

Ensure there is sufficient visual contrast at the step edge, providing a safe environment for all building users. It is recommended that there is at least a 30 point difference between the light reflectance values (LRV) of the stair nosing and floorcovering to achieve a suitable contrast.



VISUAL CONTRAST

All GRADUS stair nosing channel and insert colours are measured for LRVs in accordance to help achieve this difference. GRADUS PVC-u Hardnose stair nosings can be selected with the channel and insert in the same colour to provide the ideal solution for creating visual contrast, in line with building safety guidelines.

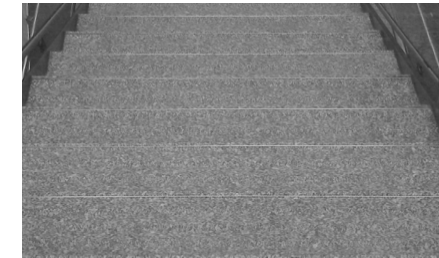
Good Visual Contrast

Installed with GRADUS Stair Nosings



Poor Visual Contrast

No Stair Nosings – Don't Take the Risk



TONAL CONTRAST

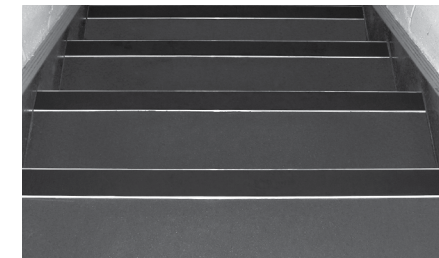
It is important to achieve a tonal contrast between the floorcovering and the stair nosing. People with visual impairments may not be able to see some or all colours, but can perceive light and dark. Colour contrast visible to fully-sighted people may not always offer a tonal contrast for partially-sighted people.

Poor tonal contrast for visually impaired

A Fully-sighted Person's View



A Partially-sighted Person's View



GRADUS XTRA-GRIP PLUS INSERT COLOURS



GRADUS INTERIOR INSERT COLOURS



For larger colour swatches, LRVs and NCS references, please contact us.



Whether installing 20 flights in a commercial office building, or three steps in a doctor's surgery, the same guidelines apply for creating safe, accessible staircases. GRADUS offers over 40 years of experience in the innovation and design of market leading products suitable for use in a wide range of applications covering all sectors including commercial, retail, leisure, healthcare and education. **eomac** is the exclusive North America Distributor.



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