

Applications

Metal stair treads and stair pans serve specific purposes in the construction and functionality of staircases, particularly in commercial, industrial, and some residential settings.

1. METAL STAIR TREADS

Durability and Strength:

- Metal stair treads are designed to withstand heavy foot traffic and harsh conditions, making them ideal for industrial and commercial applications.
- They are often made from steel, known for their high strength-to-weight ratio and resistance to wear and tear.

Safety:

- Metal stair treads typically feature non-slip surfaces, such as diamond plate patterns or serrated edges, to provide traction and reduce the risk of slips and falls.
- They can also include nosings (the front edge of the tread) with anti-slip properties to enhance safety further.

Low Maintenance:

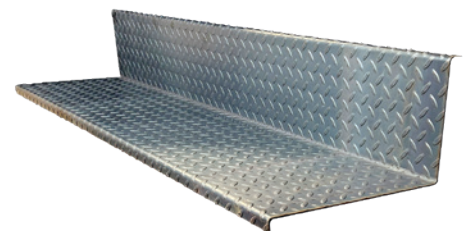
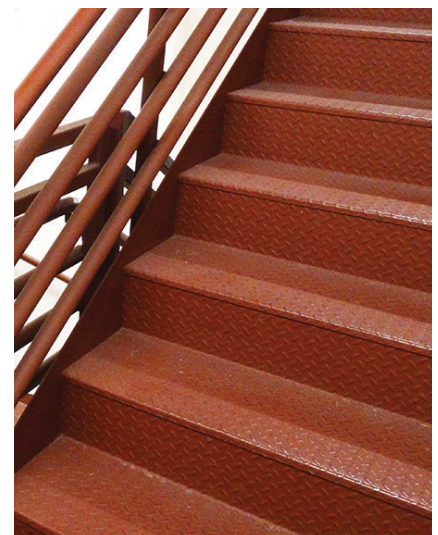
- Metal treads are relatively easy to clean and maintain compared to wood or other materials, making them practical for environments where hygiene and cleanliness are crucial.
- They are resistant to damage from chemicals, spills, and other potential contaminants.

Fire Resistance:

- Metal does not burn, making metal stair treads a safer option in terms of fire safety compared to wooden treads.

Aesthetic Options:

- Metal stair treads can be finished in various ways, including painting, powder coating, or galvanizing, to suit the aesthetic requirements of different spaces.



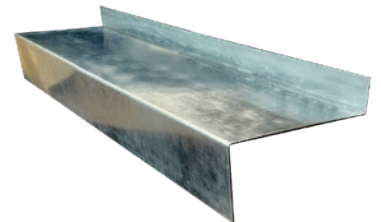
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2. METAL STAIR PANS

Structural Support:

- Stair pans (also known as pan stairs or tread pans) are typically used in the construction of concrete-filled stairs.
- They provide a framework or mold into which concrete is poured, forming the actual tread surface once it hardens.
- This combination of metal and concrete provides a robust and durable stair solution.
- Flat pans provide a support structure for accepting final finish materials such as precast treads, stone, tile, carpet, wood, or rubber finishes.



Ease of Construction:

- Using stair pans simplifies the construction process by providing a ready-made flat surface for finish materials or a form for concrete pours, ensuring uniformity and reducing labor time.
- They can be easily integrated into the stair stringers (the side supports of the stairs).



Customization:

- Stair pans can be fabricated in various sizes and depths to accommodate different architectural requirements and design preferences.
- They can be customized with additional features like riser plates, nosings, and finishes.

Fire Safety:

- Similar to metal stair treads, stair pans contribute to the fire resistance of the staircase, particularly important in commercial and industrial buildings.