



Galvanized gratings

OPERATIONS AND MAINTENANCE



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Operations and maintenance of galvanized gratings

Introduction

Galvanized steel gratings are an essential part of the infrastructure in many industrial and commercial facilities, providing a robust and durable surface for walkways, platforms, and drainage systems. To ensure optimal performance and long service life, it is important to follow the recommended procedures for operation and maintenance.

General Operation

The gratings are designed to withstand heavy loads and corrosive environments. During normal operation, it is important to ensure that the gratings are not subjected to loads exceeding their specified maximum capacities. Regular inspection should be carried out to identify any signs of damage or deformation, especially after heavy loads or extreme weather conditions.

Maintenance

Cleaning: Gratings should be cleaned regularly to remove dirt, leaves, and other debris that may accumulate between the openings. This can be done using a high-pressure washer or by manual sweeping, depending on the extent of the debris.

Corrosion Control: Galvanization protects the grating against rust, but regular inspection of the zinc coating is essential. If areas of rust or coating damage are detected, they should be treated immediately. Minor damage can be repaired with zinc-rich paint or spray, while larger areas may require professional repair or replacement.

Fastening: Regularly check that the gratings are securely fastened. Loose gratings can pose a safety risk and should be tightened or replaced immediately. Fastening is recommended with M8 bolts of strength class 8.8 or better. Bolts should be retightened to 6–8 Nm at least every six months.

Load Assessment: Periodic evaluation of the structural integrity of the grating is necessary to ensure it continues to withstand the required load. Any signs of metal fatigue, such as cracks or bending, should be inspected and repaired.

Inspection Frequency

A visual inspection of the gratings should be carried out at least once a year, or more frequently if subjected to demanding conditions. A comprehensive inspection, including assessment of the galvanization and structural integrity, should be performed every three to five years.

Documentation

All inspections, maintenance activities, and repairs should be thoroughly documented. This not only ensures that the gratings maintain their function and safety, but also provides valuable information for future inspections and maintenance plans.

By following these operation and maintenance guidelines, galvanized steel gratings can continue to deliver safe and reliable performance for many years. A proactive maintenance approach minimizes the risk of unforeseen damage and ensures a longer service life for the grating.

