



GRP gratings

OPERATIONS AND MAINTENANCE



Flexi Riste A/S
Hjejlevej 10
DK - 7480 Vildbjerg
(+45) 97 13 32 11
mail@flexiriste.dk
www.flexiriste.dk

Operation and maintenance of GRP gratings

Introduction

GRP-gratings are an essential part of the infrastructure in many industrial and commercial facilities, as it provides a strong 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.

Normal operation

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

Maintenance

Cleaning: GRP-gratings should be cleaned regularly to remove dirt, leaves, and other materials that may accumulate between the openings. This can be done using a high-pressure cleaner or manual sweeping, depending on the level of contamination.

Fixing: Regularly check that the GRP-grating is properly secured and safe. Loose gratings can pose a safety risk and should be fixed or replaced immediately. Fixing is recommended using M8 bolts in strength class 8.8 or higher. The bolts should be retightened to 6–8 Nm at least every 6 months.

Load assessment: Periodic evaluation of the structural integrity of the gratings is necessary to ensure they can continue to carry the required load. Any signs of fatigue, such as cracks or bending, should be investigated and addressed.

Inspection frequency

A visual inspection of the GRP-grating should be carried out at least once a year, or more frequently if the gratings are exposed to particularly demanding conditions. Extended inspections, including assessment of structural integrity, should be carried out every three to five years.

Documentation

All inspections, maintenance activities, and any repairs should be carefully documented. This not only ensures that the gratings maintain their function and safety, but also provides valuable information for future inspections and maintenance planning. By following these guidelines for operation and maintenance, GRP-gratings can continue to provide safe and reliable service for many years. A proactive approach to maintenance minimizes the risk of unforeseen damage and ensures a longer service life of the gratings.

