

RACK SAFETY

HOW TO MEET ANSI-MH31.1

Steel Mesh Containment Panels Used In Vertical Storage System Applications: Performance and Testing Requirements

Information sourced from ProGMA | MHI.org/ProGMA

Rack Safety Panels are attached to the uprights, backs, and sides of individual industrial steel pallet racks and vertical storage systems. When properly secured, these panels contain and reduce the potential for items stored overhead to fall and potentially strike pedestrians or

equipment below. They can also be deployed to guard and secure automated systems used within the racking, such as automated storage and retrieval systems including cranes and shuttles. Ultimately, the use of these panels protects personnel, products, and property.

BEASTWIRE MEETS ANSI-MH31.1

TESTING FOR THE STANDARD

The goal of the recommended testing process “is to apply a quantifiable impact load at both the geometric center and an offset quadrant of a steel wire mesh containment panel and indicate wire or weld failure, if they occur. Deflection of the mesh during impact is also quantifiable in a risk assessment.” For further specifications, visit the ProGMA website to purchase the standard.

PURPOSE OF RACK SAFETY PANELS



Protect Pedestrian Aisleways and Employee Work Cells

Adding rack safety panels prevents items from dropping into these high traffic areas.



Secure Non-Unitized, Loose Loads

Rack safety panels can be installed from the floor to the ceiling, including extending above the top of the rack columns in applications where the height of the upper-most stored pallet load is taller than that of the rack structure.



Protect Facility Structure Vulnerable to Impact

Utilizing rack safety panels on the back of the rack protects structural features and utility lines from an impact by a load or pallet placed too far back in the rack by a forklift driver.



NFPA Compliant

With the addition of rack safety panels, an operation can be assured that the flue space will remain clear and in compliance with the flue space requirement.

AS A FOUNDING MEMBER OF THE PROGMA, SPACEGUARD PRODUCTS PLAYED AN INTEGRAL ROLE IN THE DEVELOPMENT OF THIS STANDARD.

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