




ROLLING LOADS

and their connection to entrance flooring systems

The best entrance flooring system for your facility is one that can meet the demands of your building without compromising its integrity. Traffic should be able to pass through your entrance safely and without interruption. Ensuring that all rolling loads can travel through an entrance with ease is paramount to a building's functionality.

Rolling load

A rolling load can be described as a weighted item that is dynamically placed upon an entrance mat or grid that can potentially cause damage to that system. These weights are typically rolled over the mat or grid with a piece of equipment that has multiple sets of wheels.



Considerations when choosing an entrance flooring system

The potential for hazardous rolling loads must be considered prior to entrance flooring selection and installation. If this does not happen, the owner or anyone involved in the construction, including the contractor and architect, could be held liable for damages and injuries. Mats may curl, bow or bend if the proper rolling load weight for an entrance flooring system is disregarded. Damage to the entrance flooring system can prohibit a smooth transition into and out of the building. Examples of items that may cause potential damage include luggage carts, MRI equipment, scissor lifts, forklifts, vending machines or hand trucks. An emergency room entrance where injured patients will be transported should ensure a safe passage. The same goes for schools and other buildings that experience regular foot traffic, large deliveries or heavy equipment.

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Testing criteria for rolling loads

Though there is not an official standard of testing for rolling loads (ASTM, UL, etc.), it is up to each manufacturer to provide the testing criteria used to determine the rolling load performance capabilities. Manipulating testing criteria, such as wheel size or type, will change the outcome and can generate inaccurate results. For example, a large air-filled car tire will perform better on a rolling load test than a hand cart's small, hard caster wheel because it increases the overall surface area on the testing material. Be sure to use the manufacturer's testing method that best reflects the "real-world" loading that your building will receive. Do not hesitate to contact the manufacturer if you are unsure of the correct product choice for your building environment.



Construction Specialties' Entrance Flooring Systems have been the gold standard since 1969. We offer a multitude of entrance flooring systems to meet whatever your rolling load capacity may be. We are proud to be established industry experts that can help you choose the correct entrance flooring system for your facility.

Ready for some entrance flooring options that can meet your rolling load and facility's needs?

[View our product selector page.](#)

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