



STURDY-LITE

A DIVISION OF ROADMASTER ENTERPRISES, LLC

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RAMP LOADING CAPACITIES

The aluminum ramp load rating value, which is listed on the black warning label placed along each ramp's side and near one end, is based upon several factors, including, but not limited to:

- 1) Use of a trailer with a ground-to-deck height that is within the range of 36.00 inches to 42.50 inches (0.9144 m to 1.0795 m)
- 2) Both of the ramp stand bases and the lower ramp surfaces must sit on the ground in a level and even fashion (i.e. do not use these ramps on inclined, declined, or side-sloping surfaces – find a flat and level area of landscape)
- 3) The trailer receivers must be bolted into the back rail of the trailer being loaded onto, according to the specifications shown in the provided ramp setup instructions. You must verify with the trailer manufacturer that the trailer's back rail is sufficiently strong enough to avoid back rail yield or failure
- 4) The ramp top adapters which are welded to each end of all sections must be secured and fastened into the respective ramp receiver, as discussed and depicted in the provided ramp setup instructions (with the exception of the lower ramp section ends, which sit on the ground)
- 5) The adjustable ramp stands must be set up and secured into a fixed overall height position according to steps (4) and (5) of the provided ramp setup instructions
- 6) Any and all vehicles which will traverse up and down Sturdy-Lite aluminum loading ramps must have a front axle-to-rear axle centerline distance of at least 96.00 inches. That is, the linear distance from the center longitudinal axis of the front axle to the center longitudinal axis of the rear axle of a vehicle which will be loaded onto "16-foot Sturdy-Lite Double Ramps" must be at least 96.00 inches.
- 7) Any and all vehicles which will traverse up and down Sturdy-Lite aluminum loading ramps must have a weight distribution with no greater than a 10% differential between the front and rear axle. For example, a 10,000 lb vehicle must have no more 6,000 lb distributed to one axle, front or rear, when the vehicle is on a flat and level surface
- 8) No track-mounted equipment (e.g. excavators) or closely-spaced multiple axle vehicles (e.g. forklifts) are to be used with standard Sturdy-Lite aluminum loading ramps under any circumstances and/or conditions whatsoever.

Additional explanation: Sturdy-Lite 16' Double Ramps, which are rated at 20,000 lbs per axle as a maximum allowable load, can handle a vehicle with a 40,000 lb gross weight, so long as the front axle-to-rear axle centerline spacing is at least 96.00 inches – this means that for a double ramp assembly which has four (4) eight-foot-long sections, no more than one wheel of a vehicle will make contact with an individual 8'-long section, at a time (e.g. if a vehicle of 40,000 lbs with 2 axles spaced at least 96" apart traverses up a 16' double ramp assembly, the front wheels must reach the ramp stands before the rear wheels make contact with the lower ramp surfaces. Likewise for the upper 8'-long ramp sections, the front wheels must reach the trailer receivers and subsequently the trailer deck before the rear wheels traverse past the ramp stands and onto the upper ramp sections."