

nationalTM
ramp

FREEDOM NOW

Ramp Features
TESTING SERIES



**TRUST
YOUR RAMP,
TRUST
NATIONAL
RAMP**

Our ramps offer a variety of safety features, from weight capacity to handrail strength and non-slip traction. While we know what the engineers said, we needed to see for ourselves just what our ramps could handle. Plus, we believe in our ramps so much that we had to put them to the test.

**Please note: These tests are for entertainment and illustrative purposes only and should not be replicated at home. We conducted these tests in controlled environments with safety precautions in place. Test results do not guarantee future success.*



Slope

The Americans with Disabilities Act (ADA) guidelines call for a 1:12 slope (for every inch of elevation, you need 12 inches of ramping), which is a 4.8° angle. We wanted to see just how steep our ramp could go before a scooter started to slide on a snowy day.

Our volunteer for this experiment was our company's president, Garth Walker. We increased the slope of the ramp to a stunning 20° before the scooter tipped back.

If your space requirements and mobility device will allow for a ramp shorter than 1:12, the Liberty Series™ can still support you.



Traction

Winter weather is unpredictable across the country, so you need to be confident that your ramp will hold up to whatever precipitation is thrown your way. We put our Liberty Series™ to the test to see how well the traction would hold up in the snow.

The power scooter was able to keep its grip on the extruded aluminum treads of the ramp surface. Slow and steady, safely up the ramp!

While you can have peace of mind that your ramp will keep its traction, we still advise extreme caution during slick weather and strongly recommend that the ramp be swept clean before use.



Strength of Handrails / Side Impact Test

Unfortunately, people can sometimes lose their footing or steer their power chair into a handrail. We want to know that our handrails will help prevent accidents. We stacked 1,600 lb of concrete along the ramp's travel surface to act as an anchor to keep the pressure from the forklift focused on the handrails.

ADA specifications require ramp handrails to withstand 200 lb of side force. In our test, the forklift pulled the equivalent of 582 pounds of pressure before the railings sheared off our universal brackets.

Everyday use of our handrails can stand up to the test of time.





Weight

The Liberty platform has a weight capacity of 1,200 lb, but we wanted to see how much we could pile on before the ramp failed. And not just a platform near the ground, we put ours 4ft in the air.

After installing and bracing the platform to the same standards required for all of our residential ramps, we started loading the platform with 1,000 lb pallets of concrete. It easily held 2,000 lb, twice the capacity, without issue.

We continued to stack on the weight. After 4,000 lb the platform was stretched beyond the allowable point of metal flex, but was still standing. It remained standing even after 10,000 lb of concrete!

Rest assured that the Liberty™ can handle the normal stress that most users will need for safe travel. If there are specific concerns about your situation, speak with your dealer about our other ramp solutions.



Fire Resistance

In a house fire, every minute matters. According to the National Safety Council, once a smoke alarm alerts you to a fire, you only have a minute or two to safely escape.

At a fire testing facility, we connected the ramp to wooden pallets which were then lit on fire, reaching temperatures over 1500°. The ramp sustained the heat of the fire for more than 15 minutes from the time of fire ignition, which is ample time to get you out of your home.

This test subjected the ramp to a much higher direct flame than an average house fire condition. This extreme example shows that a ramp would easily sustain the residual heat that most ramps would be faced with, and that so long as you can get out of your house and onto the ramp, the ramp will bring you to safety.



Strength of Elbows

We set out to see how many pounds of pressure our newly designed locking elbow could withstand before coming loose.

Keeping the ramp in place with 2,000 lb of concrete, we connected a chain from the elbow to a forklift and pulled it until it slipped out of place. Our crane scale registered 451 lb of pressure before the elbow finally gave way.



As you can see, our **Liberty Series™** ramp can outperform its own ratings. While the ramps are not indestructible, our ramps can withstand the normal use that someone will subject it to, and maybe a little more.

We designed the ramp to provide safety and peace of mind, so ***please always do your part in exercising caution when on the ramp.***



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ADA
COMPLIANT

WRITE
info@nationalramp.com

COMMUNICATE
P 877 269 8172
F 845 358 1469

VISIT
www.nationalramp.com