



Providing Architects and Builders with  
Superior Paving, Decking and Pedestal Products

Commercial | Luxury Residential | Civic

## APPLICATION NOTE: Decking Materials and Roof Loading



### How Many Buffalo will Your Rooftop Deck Support?

There are many factors to consider in selecting materials for a rooftop decking application. This application note concerns the load capacity of Buzon screwjack pedestal systems and also explores relative roof loading for various popular rooftop decking materials.



**Buzon**



The Original Srewjack Pedestal. Buzon Products are Often Imitated but Never Duplicated

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## Buzon Pedestals Loading Capacity

Buzon pedestals are capable of supporting loads up to 2,200 lbs (1,000 kg) — 1,000 lb design load. Each part of the Buzon pedestal system uses a minimum thickness of 4 mm or 5 mm of polypropylene. The higher pedestals are equipped with reinforcement ribs to further improve the strength and resistance.







Buzon Pedestals will not likely be the loading limit of your rooftop deck. The decking materials you choose each have weight and consequences. Increased material weight has consequences in structural requirements especially when factoring in active loads. With heavier materials and active loads it's as though your inviting buffalo to roam on your rooftop. That is likely unwelcome to even the most animal-loving owners and occupants.

### American Bison Facts:

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- Bison and “buffalo” are terms often used interchangeable but this is considered to be a misnomer
- Bison are only distantly related to either of the two “true buffalo”, the Asian water buffalo and the African buffalo
- Bison are North American’s largest land animals
- Mature bison stand over 6 feet tall and can be as long as 12.5 feet
- Bison have lived continuously in Yellowstone National Park since prehistoric times
- Bison are able to jump more than 6 feet
- Male buffalo, called bulls, weigh over 2,000 pounds

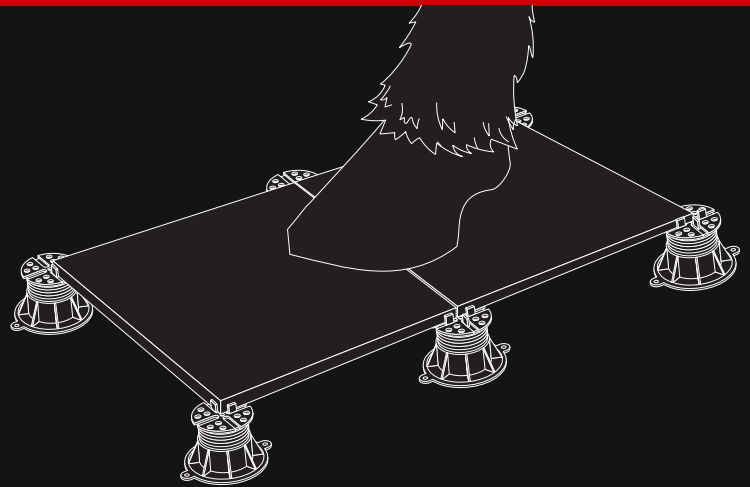
## A Buffalo Comparison of Decking Materials

Stone	Concrete pavers	3cm Porcelain & structural concrete	2cm Porcelain	Ipe pavers	Thermory pavers
16-28 lbs/sf	22 lbs/sf	14 lbs/ sf	9.5 lbs/sf	6 lbs/ sf	4 lbs/sf
28,000 lbs / 1000 sf	22,000 lbs / 1000 sf	14,000 lbs / 1000 sf	9500 lbs / 1000 sf	6000 lbs / 1000 sf	4,000 lbs / 1000 sf
14 buffalo 	11 buffalo 	7 buffalo 	4.75 buffalo 	3 buffalo 	2 buffalo 

## Keep Buffalo off your Rooftop

Use Thermory Pavers on your Rooftop Deck and put Bison in their place. On a 1000 sf deck, using Thermory pavers instead of concrete reduces roof-deck load by 18,000 lbs. That's 9 full-sized buffalo. Less weight means less structure and framing needed, which amounts to reduced cost. Your project budget can afford the Thermory Pavers (**and get your roof-deck for "free"**) owing to the reduction in structural framing materials and labor cost.

Best of all, you get the aesthetic of thermally-modified ash rather than concrete. In your next rooftop decking application consider using Thermory Pavers and leave the Buffalo to roam on the range, where the deer and the antelope play.



Need Help Selecting or Specifying Materials?

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