



## Deck Loading

### Structural Verification

The Water Weights range of flexidams and mattress bags allows uniform surface loadings to be applied. Advantages over traditional solid weights include ease of handling and positioning on site, very low carriage costs and gradual application of load (often over a period of several days).

Loading is measured by means of a calibrated flowmeter to give accuracy of  $\pm 1\%$ . By using our simple manifold arrangement several units can be filled simultaneously.



## Deck Loading

**Water Weights provides specialist products, services and project management for structural testing. This includes verification of structural integrity of buildings, testing of bridges, elevators, loading ramps, gangways and decks.**

**Specific examples of applications include:**

**Roll on, roll off ferry ramps have been tested ranging from 70 to 600 tonnes**

**Ballasting arrangements for ship's conversion up to 300 tonnes**

**General floor testing applications to verify structural integrity on renovation; change of use or suspected structural damage. Examples include, 130 tonnes to an educational establishment and 40 tonnes to an historical monument.**

**Passenger and freight elevator load testing**



Capacity	1 Ton	5 Ton	8 Ton	25 Ton	35 Ton	100 Ton
Length filled	3.0	2.5	3.0	4.15	-	8.4
Height filled	0.3	0.95	0.9	2.5	1.5	1.8
Width filled	1.3	-	2.8	4.15	-	8.4
Base size round dams dia.	-	-	-	-	5.85	-
Empty [+] rolled length	0.5	0.75	1.0	1.5	1.5	2.75
Width empty	0.3	0.8	0.8	0.9	0.95	1.3
Height empty	0.3	0.8	0.8	0.9	0.95	1.0
Empty weight (kgs)	10	20	40	55	60	330

The above specifications apply to the standard range. A wide variety of bags can be designed, engineered and manufactured to meet specific needs or applications.

Please note that under no circumstances should mattress bags be stacked more than two high. Bags should never be loaded beyond their rated capacity.