

## Barriers and Handrail Dynamic Strength Testing Machine



### Application

A sudden horizontal impact stress is applied to the barrier or handrail, through a pad, by a falling load.

Determine of the dynamic strength of barriers and handrails.

### Parameters

Load	25+/-1kg
Drop Height	125+/-10mm
Impact method	free fall
Impact Force	30J
Sample height	90-240cm
Weight	approx 140kg

## Standards

EN 71-8 clause 6.4, ISO 8124-4 6.3

## Procedure

Assemble the toy in accordance with the manufacturer's instructions and place or fix it on a rigid horizontal surface.

Place and secure the pad to the top of the barrier or handrail at the most onerous position and without causing

any damage to the toy. Attach the free end of the rope to the pad.

Arrange the rope and the pulley so that the load hangs freely. Raise the load vertically  $125 \text{ mm} \pm 10 \text{ mm}$  and

let it drop freely (this will give an impact energy of approximately 30 J). Within 10 s, remove all tension from the barrier.

Observe whether the toy still complies with the relevant requirements of this part of ISO 8124.



