





Introduction

This report describes the testing of the modular unit known as the TS2 Unit (2.5m X 1.8m X 1.3m) to meet the criteria of a maximum deceleration of under 14g as specified in BS PAS15:2014, this test will be carried out by J Southby and M McConnell.

The test will be conducted at 2 meters from the top of the unit to determine the deceleration values of a test mass falling onto the units, we will require three drop tests to be conducted. The test results should show that the maximum decelerations are less than 14g.

The Drop mass shall consist of a 100kg drop test manikin, with anatomically correct weight distribution and a Tri-Axial accelerometer attached to the torso.

The manikin will be dropped in the laying down position

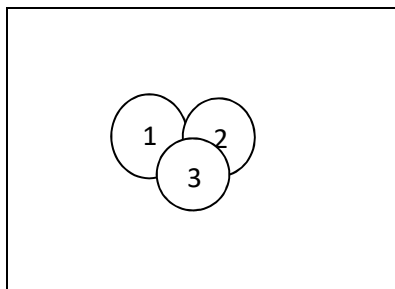
Product Specification

Name: TS2 Unit

Size: 2500mm x 1800mm x 1300mm

Description: Square polypropylene unit with polystyrene fill.

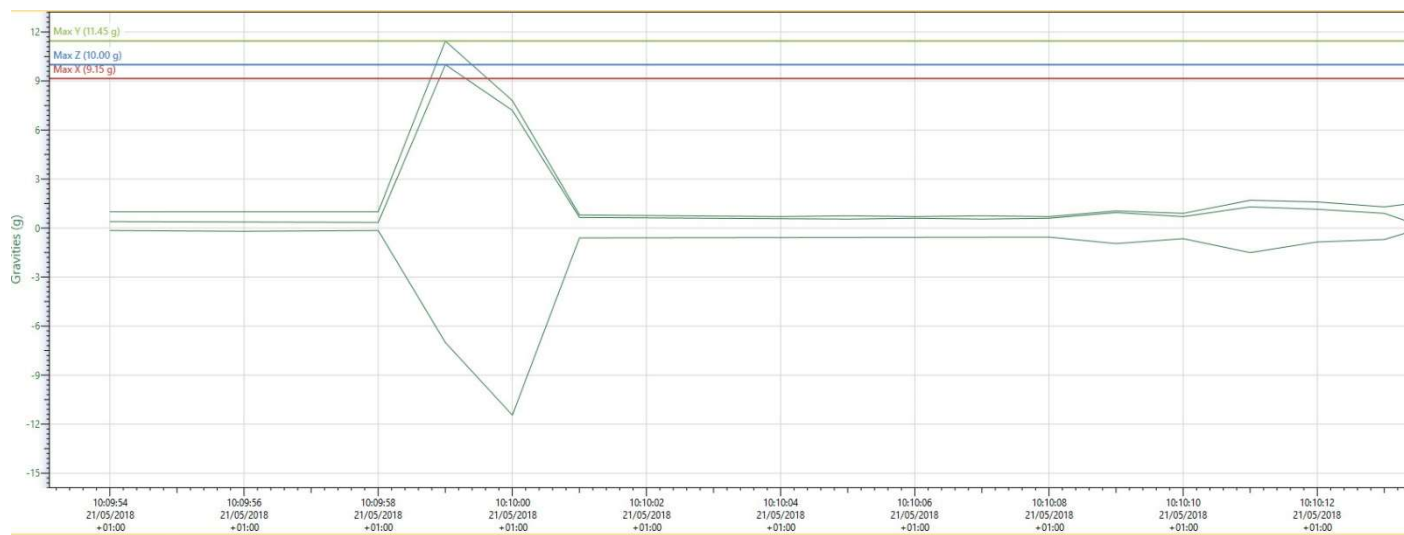
Configuration of system



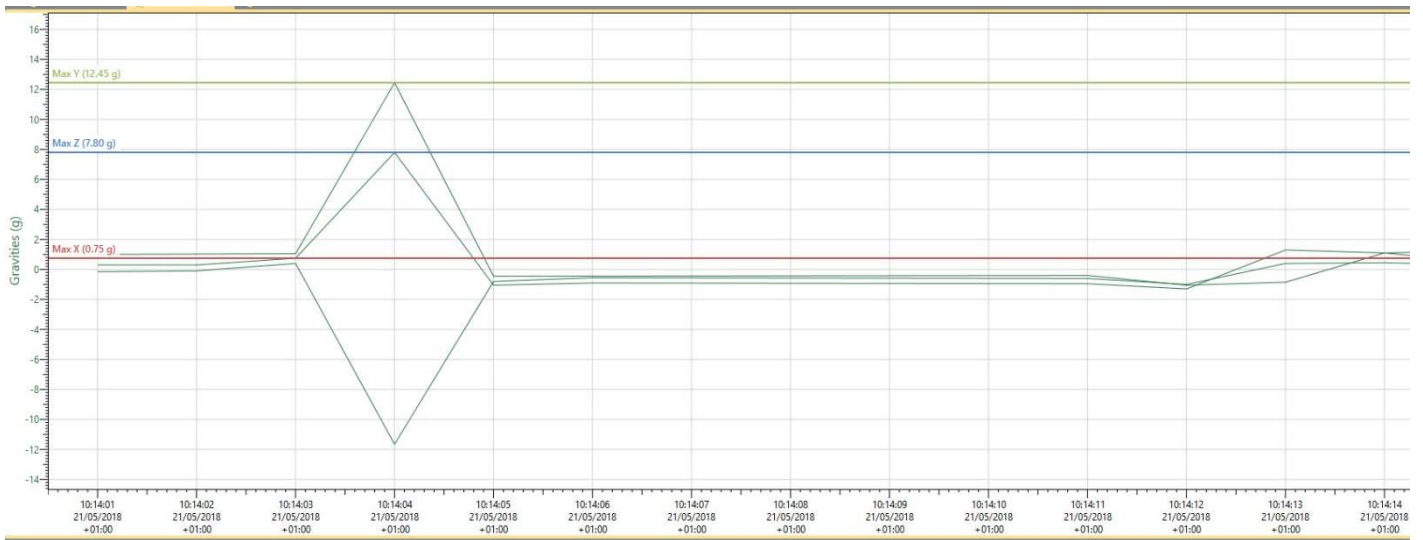
We will be using a triaxle accelerometer attached to the 100kg Manikin, this will then record the X, Y, & Z values of G force.

Test Ref	Product	Height	X (G)	Y (G)	Z (G)
21052018001	TS2	3.3m	9.15	11.45	10.00
21052018002	TS2	3.3m	0.75	12.45	7.80
21052018003	TS2	3.3m	4.60	7.50	0.87

Test Ref:21052018001



Test Ref:21052018002



Test Ref:21052018003

