# *Certificate of Testing*

**N°: TRA026624CC01A**



SAYFA Systems UK
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Issue Date: 21st July 2015
Our Ref: TRA-026624-01
Client's Order Number: PO 5336
Date(s) of Test: 7th July 2015

Attn.: Roy South

**Specimen(s):**

| | |
|---|---|
| 6 Off | SAYFA Air Deck Fall Arrest Bag |
| TRaC Stores Number: | TRA-026624-S1 to TRA-026624-S6 |
| Receipt Date: | 20th May 2015 |

**Specification:**

Testing was carried out in accordance with TRaC Global Limited quotation TRA-026624-01, dated 30th April 2015 and PAS 59:2014, dated 31st January 2014.

Fall Arrest System Mass Impact Test
Testing was carried out in accordance with PAS 59:2014 Annex A

| | |
|---|---|
| Number of Drops | 3 |
| Drop Height | 2.0 ± 0.05 m above top surface of specimen |
| Drop Weight | 100± 1 kg |
| Deceleration | ≤14g |

**Procedure:**

The bags were installed in accordance with the manufacturer's instructions within a bespoke test enclosure and supported on a flat concrete non-yielding floor. The bags were pressurized with approximately 1 psi of air to achieve the manufacturers recommended inflation level, and joined together using the quick release buckle to form a complete collective fall arrest system, see Figure 1.

A rigid steel mass conforming to specification BS EN 364: 1993, section 4.5 was used incorporating a tri-axial accelerometer. The accelerometer was positioned on the top surface of the steel mass to measure deceleration and out of axis response. A 280mm diameter x 20mm wooden disc was fixed to the underside of the rigid steel mass to protect the specimen from any damage.

Test Engineer Daniel Homan

Daniel Homan Test Engineer

Approval

M. Pitham Environmental Test Manager



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The rigid steel mass was raised using the TRaC Global Ltd overhead crane such that the underside of the rigid steel mass was 2 metres above the top surface of the bags, see Figure 2. The test mass was released utilising a quick release mechanism, to fall onto various positions on the collective fall arrest system. The positions of each drop test are show in Figure 3.

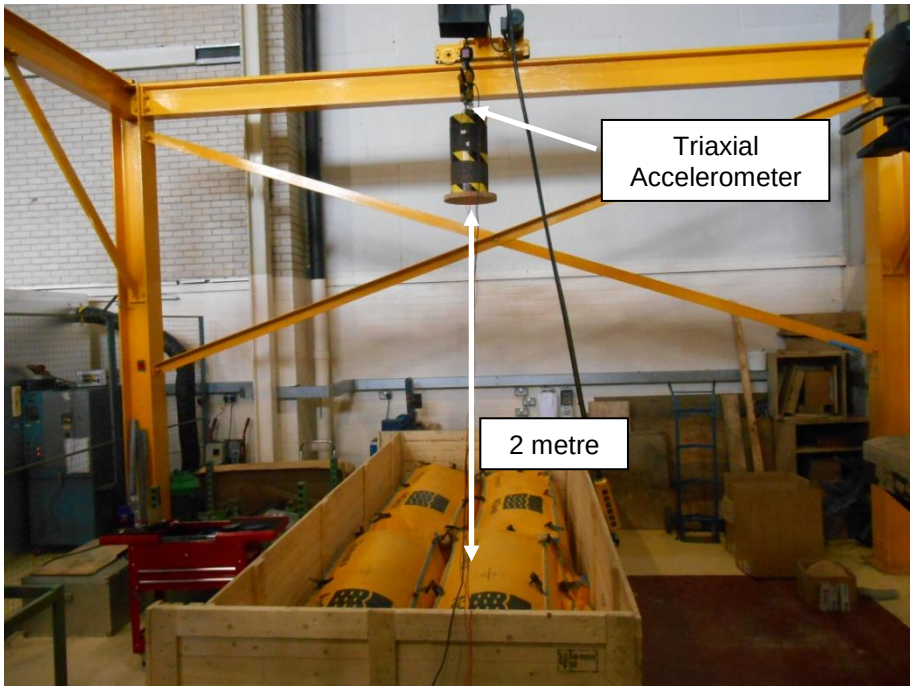
**Results:**

Drop Test

The specimens completed the testing programme and deceleration levels measured were within the limit of 14g.

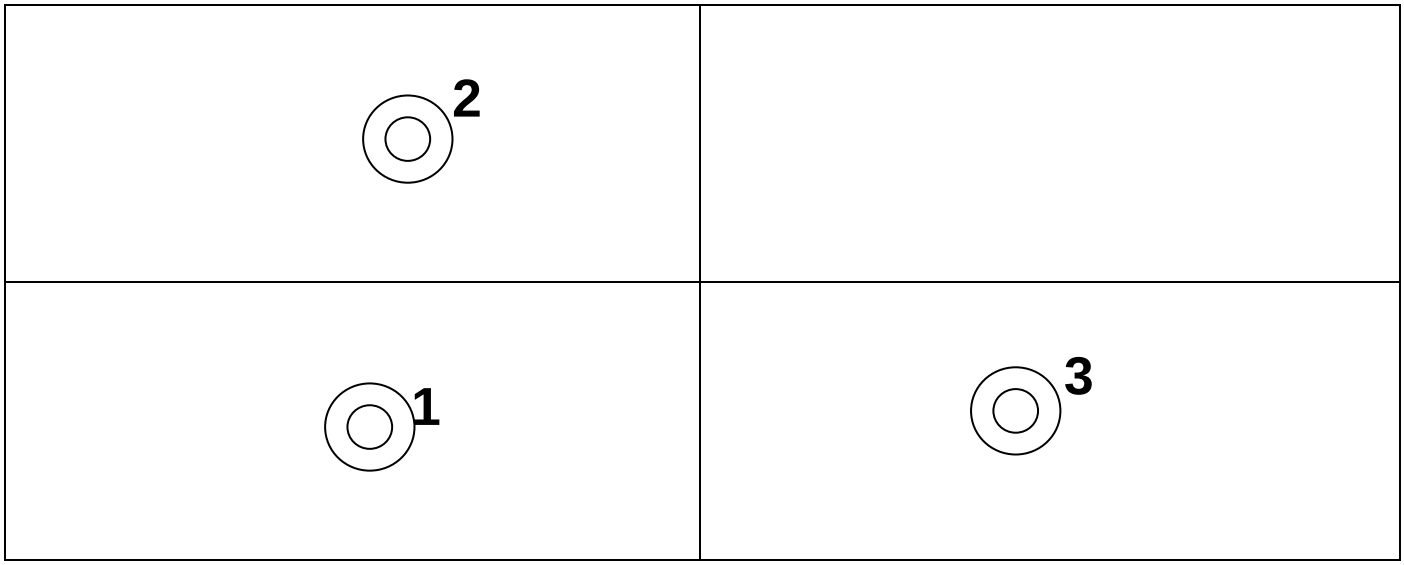
COLLECTIVE FALL ARREST SYSTEM

FIGURE 1




RIGID STEEL MASS FALL ARREST IMPACT TEST

FIGURE 2




**DROP POSITIONS 1, 2 & 3**

**FIGURE 3**