



Report of Impact Drop Testing

on behalf of

**Enviro Mulch (UK)
(Brett Valley Maintenance Services Ltd)**

on 11 November 2008

Product: Enviro-Husk



RoSPA drop test are an independent safety assessment of the playground surfacing and are produced for RoSPA by

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TESTING PROCEDURE

The following procedure is followed for the testing of loose impact attenuating materials, in accordance with BS EN 1177:2008 and BS EN 1176-1:2008.

1. Principles – a test specimen is struck by an instrumented headform in a series of defined tests. The signals from an accelerometer are processed to yield a Head Injury Criterion (HIC) for each drop that is an indication of the severity of the impact. The lowest drop height from all of those taken will be used as the critical fall height of the surface tested.
2. Equipment – the test rig is a Uniaxe II employing an ISO J size impact head in a guide rail system with a single vertical accelerometer for ease of calibration.
3. Testing is carried out at a temperature of 23 ± 5 degrees Celsius.
4. Testing is carried out on a flat concrete surface of thickness at least 200 mm such that it has no effect upon the test result. The material is contained within a test frame of internal dimensions not less than 1000 mm \times 1000 mm.
5. The particulate material is laid to a thickness of 200 mm, or other dimension as specified by the supplier. It is evenly distributed within a test frame and is not compacted.
6. Testing procedure – nine test drops are conducted. A batch of three tests is conducted in the same position, without redistribution of the material, to account for compaction. This procedure is repeated twice, with redistribution of the material between each batch.

TEST RESULTS

| Product: | | Enviro-Husk | |
|----------------------------|-------------|-------------|--------------|
| Material thickness: | | 200 mm | |
| Drop Number | Height (mm) | HIC | Pass or Fail |
| 1 | 3000 | 825 | Pass |
| 2 | 3000 | 825 | Pass |
| 3 | 3000 | 845 | Pass |
| 4 | 3000 | 902 | Pass |
| 5 | 3000 | 926 | Pass |
| 6 | 3000 | 918 | Pass |
| 7 | 3000 | 841 | Pass |
| 8 | 3000 | 802 | Pass |
| 9 | 3000 | 836 | Pass |

The tested product complies with the essential requirements of EN 1177:2008 such that it achieves a critical fall height of 3.0 metres when installed to a layer thickness of 200 mm.

This material shall also conform to the requirements of EN 1176-1, in particular, Clauses 4 and 6.

Photograph of the tested material:



