

BOULDER MATS TESTS AND RESULTS

TESTING PROCEDURE

All of our products are developed and tested following the different safety procedures and standards around the globe. Although not required by the standards, we also tests all of our safety flooring using a precise human analog – Hybrid II human crash test dummy - in order to ensure maximum safety for the climbers.



EN 12572-2 Impactor
 Test mass: 30 kg
 Object diam.: 150 mm
 Drop height: 2.2 m



2 x 2 m (6.5 x 6.5 ft) Test Sample



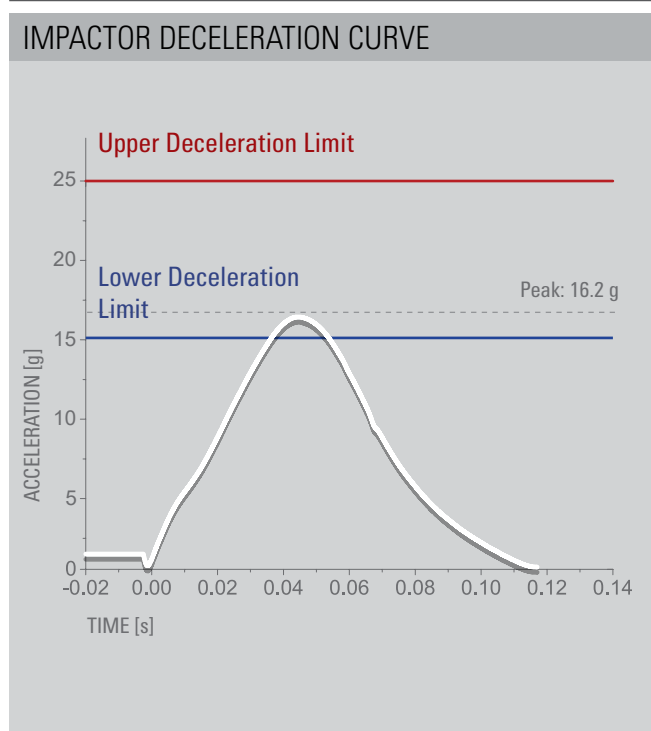
Hybrid II Crash test dummy



The drop

TEST RESULTS

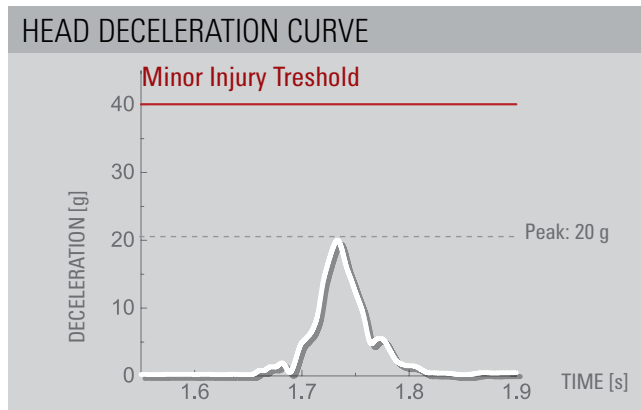
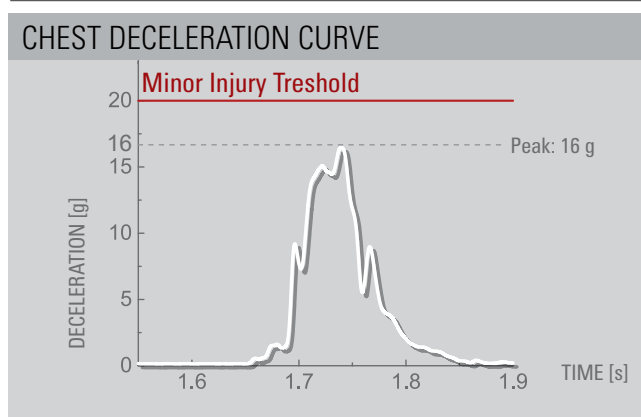
EN 12572-2 Impact Test



EN 12572-2 standard test. The standard impactor is dropped multiple times on specific locations. The impactor is raised to the specified height and then dropped. The deceleration curve of the test's mass upon impact is measured using an integrated 3-axial accelerometer. The following parameters of the mat are determined:

- Peak Deceleration
- Resilience
- Deflection

Crash Test Dummy Test



Using a more accurate human analog – Hybrid II crash test dummy – we conduct a series of drop tests on our products, in order to develop a product, which is much safer for the climbers. The dummy is drop from heights up to 2.5 m and 3.5 m, depending on the position of the fall (falling on its feet or its back) The deceleration curves of the tests object, upon impact, are measured using two integrated 3-axial accelerometers. The following parameters of the mat are then determined:

- Peak Chest Deceleration
- Peak Head Deceleration
- Head Injury Criterion (HIC)

*The shown test results are for BM400