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Crash testing of the Sunrise Exigo 20 manual wheelchair according to ISO 7176-19:2008

(3 appendices)

Summary

A crash test of the Sunrise Exigo 20 wheelchair has been performed according to ISO 7176-19:2008, chapter 5.2. The wheelchair system was crash tested loaded with a Hybrid III-dummy, 79.2 kg, in 48.8 km/h.

| Standard chapter | | Comment | Fulfilment of requirement |
|------------------|---------------------------|---------|---------------------------|
| 5.2.1a | Horizontal excursion | | OK |
| 5.2.1b | Knee vs. WC excursion | | OK |
| 5.2.1c | Battery movement | | N/A |
| 5.2.2a | ATD torso angle <45° | | OK |
| 5.2.2b | Securement points | | OK |
| 5.2.2c | Separation of <100 grams | | OK |
| 5.2.2d | Sharp edges radius > 2 mm | | OK |
| 5.2.2e | Load carrying components | | OK |
| 5.2.2f | Tilt-in space locking | | N/A |
| 5.2.2g | Removal of ATD, no tools | | OK |
| 5.2.2h | WC removal, no tools | | OK |
| 5.2.2i | Post height diff < 20% | 2% | OK |
| 5.2.2j | No webbing failure | | OK |

The test object fulfilled the requirements according to ISO 7176-19:2008, chapter 5.2.

1 Introduction

On assignment of Sunrise Medical AS a crash test of the Sunrise Exigo 20 wheelchair was performed according to ISO 7176-19:2008, chapter 5.2. The purpose of the test was to evaluate if the wheelchair fulfilled the crash test requirements.

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