

NEW AND BETTER CRASH TEST – UP TO 272 KG

September 4, 2019

Transit Tie Down option for the PDG Eclipse Bariatric Wheelchair

To whom it may concern:

This letter is to confirm that the PDG Eclipse Bariatric Wheelchair has successfully passed a crash test according to the standards and specifications set out below:

- ANSI/RESNA WC-4:2017, Section 19: Wheelchairs Used as Seats in Motor Vehicles
- ISO 7176-19 (2008): Wheeled Mobility Devices for Use in Motor Vehicles.

Detailed test summary:

This frontal-impact test was conducted on the impact sled in accordance with Annex A of WC19 and ISO 7176-19. The Eclipse Wheelchair was placed on the sled platform facing forward and secured using the surrogate four-point, strap-type tiedown specified in Annex D of WC19. The front and rear tiedown straps were hooked to the securement points provided on the wheelchair frame.

The test was conducted using 48-kph (30-mph) and 20-g average impact conditions to determine the frontal-impact response of the wheelchair and compliance with performance criteria in sections 5.3.2 of WC19 and 5.2 of ISO 7176-19.

During the test, the wheelchair was well secured by the four-point tiedown and the ATD was restrained from excessive forward and rearward excursion by the three-point belt and the wheelchair head and back support, respectively.

The results of this test show that the Eclipse Wheelchair with a wheelchair-anchored lap belt meets all of the performance criteria for wheelchair dynamic strength specified in 5.3.2 of ANSI/RESNA WC-4:2017 and of 5.2 of ISO 7176-19.

Based on this test result, PDG Mobility will offer factory-installed transit tie down brackets on its Eclipse chair effective immediately. The maximum occupant weight capacity will be limited to 272 kg (600 lbs) for wheelchairs equipped with the tie downs.