

Guide to ISO Testing

per ISO/DIS 16840-3 Wheelchair seating — Part 3: Determination of static, impact & repetitive load strengths for postural support devices

User Mass and Product Size for Hip Belts

Hip Belt Size	X-Small	Small	Medium	Large	X-Large
Maximum user mass intended for use of the Bodypoint PSD	24 kg (53 lb)	39 kg (86 lb)	65 kg (143 lb)	111 kg (244 lb)	135 kg (298 lb)
ISO standard user mass selected for testing	25 kg (55 lb)	25 kg (55 lb)	50 kg (110 lb)	100 kg (220 lb)	> 150 kg (> 330 lb)
Maximum Static Test Load*	250 N (56 lbf)	250 N (56 lbf)	500 N (112 lbf)	1000 N (224 lbf)	1500 N (337 lbf)
Maximum Repetitive Test Load**	125 N (28 lbf)	125 N (28 lbf)	250 N (56 lbf)	500 N (112 lbf)	750 N (168 lbf)
Anchor point separation (Mounting point separation)	280 mm (11 in)	280 mm (11 in)	360 mm (14 in)	480 mm (19 in)	580 mm (23 in)

*maximum load is based on 10 x (mass) expressed in Newtons

**maximum load is based on 5 x (mass) expressed in Newtons

User Mass and Product Size for Shoulder Harnesses

Shoulder Harness Size	X-Small	Small	Medium	Large	X-Large
Maximum user mass intended for use of the Bodypoint PSD	22 kg (49 lb)	32 kg (71 lb)	59 kg (130 lb)	78 kg (172 lb)	133 kg (293 lb)
ISO standard user mass selected for testing	25 kg (55 lb)	25 kg (55 lb)	50 kg (110 lb)	75 kg (75 lb)	100 kg (220 lb)
Maximum Static Test Load*	63 Nm (46 lbf-ft)	63 Nm (46 lbf-ft)	185 Nm (136 lbf-ft)	315 Nm (232 lbf-ft)	460 Nm (339 lbf-ft)
Maximum Repetitive Test Load**	31 Nm (23 lbf-ft)	31 Nm (23 lbf-ft)	92 Nm (68 lbf-ft)	157 Nm (115 lbf-ft)	230 Nm (170 lbf-ft)

*maximum load is based on 7 x (mass) x (pivot length, d/1000) expressed in Newton-metres

**maximum load is based on 3.5 x (mass) x (pivot length, d/1000) expressed in Newton-metres