

ISO7176-19	Customer: Dietz Power	
paragraph	Testdate: 19-12-2017	
5.2	DYNAMIC test – Acceleration Sled	
	Type	Sango F Advanced
	Wheelchair mass	140 Kg
	ATD used, dummy mass	H3-95th large male, 102kg
	Seat base adjustment / angle	8.5°
	Seatback adjustment / angle	75.5°
	Impact	Frontal
	Orientation	Frontal facing
	Anchorage used	Supplied by testhouse
	Headrest used yes/no	yes
4.2.1	Wheelchair anchored pelvic-belt restraint	no
4.2.2	Wheelchair-anchored shoulder-belt restraint	no
4.2.3	Accommodation of vehicle-anchored occupant belt restraints	no

		Limits	Pass/Fail
	Impact speed (delta v)	49.1	48-50 km/h
5.2.1.a	Horz. Excursion limits [mm]:		
	Point P:	51	200mm
	ATD knee:	191	375mm
	Front head:	281	550mm
	Rear head:	-385	-450mm
5.2.1.b	ATD knee/Point P	3.7	≥ 1.1
5.2.2.a	Torso angle after [°]:	16	<45° from vertical
5.2.2.c1	Batteries of powered wheelchair did not remove outside the wheelchair footprint		pass
5.2.2.c2	Batteries of powered wheelchair did not move into the wheelchair user's space (e.g. no contact with the back of the ATD's legs)		pass
5.2.2.i	H-point ATD [mm]:		
	Before vert:	609	
	After vert:	602	
	Difference [%]:	1.1	≤ 20 %
	Remarks:		
5.2.2.b	The wheelchair securement points shall not show visible signs of material failure.		pass
5.2.2.c	Rigid components, fragments or accessories of the wheelchair with a mass in excess of 100 g shall not be completely separated from the wheelchair.		<100gr
5.2.2.d	Wheelchair components that may contact the occupant shall not fragment or separate in a manner that produces sharp edges, defined by as having a radius of less than 2 mm.		pass
5.2.2.e	Primary load-carrying components of the wheelchair shall not show visible signs of failure, unless there is a backup system to provide support.		pass
5.2.2.f	Locking mechanisms of tilting seating adjusters shall not show signs of failure.		n/a
5.2.2.g	Removal of the ATD from the wheelchair shall not require the use of tools, other than a hoist to lift the ATD.		pass
5.2.2.h	Release of the wheelchair from the tiedown system shall not require the use of tools.		pass
5.2.2.j	The wheelchair and its components shall not cause partial or complete failure of the webbing of any of the WTORS assemblies during the test.		pass
5.3a	Accessibility of securement points: allow one-handed attachment and engagement of the hook gauge within a time period of 10 s,	4s	<10s
5.3b	Accessibility of securement points: allow one-handed disengagement and removal of the same hook gauge within a time period of 10 s,	4s	<10s

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<b>Accommodation of <u>vehicle-anchored</u> belt restraints. Static assessment.</b>				
5.4 Annex D1	Overall ease of belt positioning		Score 0 = Poor 1 = Acceptable 2 = Good	2
5.4 Annex D2	Pelvic-belt-restraint contact area		Score 0 = Poor 1 = Acceptable 2 = Good	2
5.4 Annex D3	Shoulder-belt-restraint contact area		Score 0 = Poor 1 = Acceptable 2 = Good	2
5.4 Annex D4	Pelvic-belt-restraint contact location		Score 0 = Poor 1 = Acceptable 2 = Good	2
5.4 Annex D5	Shoulder-belt-restraint contact location		Score 0 = Poor 1 = Acceptable 2 = Good	2
5.4 Annex D6	Pelvic-belt-restraint angle	37°	Score 0 = Poor 1 = Acceptable 2 = Good	1
5.4 Annex D7	Pelvic-belt-restraint clear paths to anchor points		Score 0 = Poor 1 = Acceptable 2 = Good	2
5.4 Annex D8	Belt-restraint proximity to sharp edges		Score 0 = Poor 1 = Acceptable 2 = Good	1