

Report Number: 1067-17-01 Report Date: July 19, 2017

Test Date: July 18, 2017

Test Conducted By: Calspan Corporation Transportation Test Operations 4455 Genesee Street Buffalo, New York 14225 716.632.7500 1.800.CALSPAN

Prepared For: Braxx Sp. Z o.o Warzawska 976 05-083 Borzecin maly Poland



Testing

www.calspan.com

CHILD RESTRAINT SLED TEST CMVSS 213 Frontal Impact

Report Number: 1067-17-02 Report Date: July 19, 2017

Test Date: July 18, 2017

Test Conducted By:

Calspan Corporation Transportation Test Operations 4455 Genesee Street Buffalo, New York 14225 716.632.7500 1.800.CALSPAN

Prepared For: Braxx Sp. Z o.o Warzawska 976 05-083 Borzecin maly, Poland



Testing

www.calspan.com

Pass	<mark>19.3</mark>		÷) past Z-poin	<mark>6"</mark> (915mm)	o more than <mark>3</mark> t	/ knee pivot point to go	71.213 2015) Allow	of CFR 5	⁸ .1(a)(2) c	(\$5.1.3	Forward Knee Excursion
Pass	<mark>13.7</mark>	nless	t Z-point - ui	313mm) past	; than <mark>32"</mark> (8	ad to go more	r any portion of the he	71.213 2015) Allow mm) past Z-point.	of CFR 5 3.3" (720	3.1(a)(1) c 1, then 28	(S5.1.3) tethered	Forward Head Excursion
Pass	<mark>558.9</mark>	;eed	shall not exc	me interval s	vr a 36ms tir	ury criterion fo lummy).	m calculated head inju weighted 6-year-old d	.213 2015) Maximu ests using 10YO &	CFR 571 able for t	t applica	(S5.1.2 <mark>1000 (</mark> n	Head Acceleration:
Pass	<mark>47</mark>	Iration	imulative du	ils whose cu	<mark>g f</mark> or interva	10t exceed <mark>60</mark> (st acceleration shall n	.213 2015) The che	CFR 571 IS.	1.1(b) of C than 3 m	(S5.1.2 is more	Chest Acceleration:
NA	NA	vlash)	n seat (whip	hen placed ir	degrees wh	e less than 45	torso angle difference	213 2015) Head to	CFR 571	.1(c) of C	(S5.2.1	Head Support
NA	NA						less than 70 degrees	2015) Equal to, or	571.213	of CFR :	(S5.1.4	Max. Back Support:
NA	NA	head-	or shall the	int system n	of the restra	d-most edge c	not beyond the forward and	3 2015) Head CG i 45 degrees rearwa	R 571.21 Iore than	3.2 of CFF Igle be m	(S5.1.3) torso ar	RF Head Excursion:
Pass	Vo Change	from N	g Openings	se in Existin	ו or Decrea	nge of Positior	71.213 2015) No Char	(b)(2)(ii) of CFR 57	d S5.1.1	(b)(1) an	(S5.1.1 change	Adjustment Positioning During Impact:
NA	lo Structure	z			n (3/8")	rusion> 9.5mm	Separation with Protr	13 2015) No Partia	R 571.2	(a) of CF	(S5.1.1	
NA	Jo Structure	z		ım (1/4")	dius < 6.4m	sed Edge Rau	Separation with Expc	13 2015) No Partia	R 571.2	(a) of CF	(S5.1.1	Structural Integrity:
NA	lo Structure	z					lete Separation	13 2015) No Comp	R 571.2	(a) of CF	(S5.1.1	
NA	No Buckle				est	the dynamic to	did not release during	.213 2015) Buckle	CFR 571).5(e) of C	(S5.4.3	Buckle
Pass/Fail	est Result	Te				uirement	Compliance Requ	•				Test
ı	'		x24")	24" and 4";	oam (2"x2	Back Fo	-	-		")	1 4"x20	Bottom Foam (2"x20" an
										-	st issues	mments : - Lap shield is used. No post-tr
23.2 29.9	ł	19.3	13.7	47	558.9	56	N 6-YO HYB II SN 141	FF Type 2		1	Belt	07/18/2017 F P6 Smart Kic
Test G's Velocity (g's) (mph)	Ex Vertical SB Head CG Exceeded 1 (Y/N)	k Knee (in) Post s Angle (deg)	Head E (in) Pre sB Angle (deg)	Chest ^{3ms} ^(g's)	HIC ^{36ms} ^(g's)	Canadian Head Clip 3ms (g's)	3 Tether (Y/N) A TD	M Restraint Syste	Recline Position	Harness Position Crotch Position	raint	led Test # Date FMVSS / CMVSS Veh. Seat Position
				1RY	V SUMMA	ST - DATA	MPACT SLED TE	< - FRONTAL II	Brax			

Customer: Braxx Report No: 1067-17-01 Test Date: 07/18/2017

SLED TEST RUN: BX07-17-002

Calspan

3-24

DISCLAIMER

The contents of this report relate only to the specific product evaluated under the specific test conditions, as defined within this report. Any changes to the contents of this report (including, but not limited to: modifications, deletions, additions, etc) are expressly prohibited. If such changes occur without the prior knowledge or expressed written consent of Calspan, Calspan will take actions to disclaim the validity of the changes and report same to the appropriate authorities. The findings and conclusions are those of the author(s) and not necessarily those of Calspan Corporation. For the purposes of this report, Calspan Corporation provided test services only and was not involved with the consulting, design or manufacture of any product. Calspan Corporation does not endorse products or manufacturers. Further, Calspan Corporation (to include: any of its affiliates, parent companies or subsidiaries) assumes no liability associated with the contents of this report or the use of this report.

Prepared by:

Adam Hardbattle, SLED Engineer

Date: July 19, 2017

Authorized by:

Date: July 19, 2017