

Consumer Product Safety

Advice ♦ Consultancy ♦ Appraisal & Testing ♦ Development ♦ Quality Control & Systems Support ♦ Research ♦ Court Work ♦ Risk assessment

Technical Report

Unique ID code of report:	1352117892P
Name and address of customer:	Distributor Corporation UK Ltd Suite G442 Dean Clough Mills Halifax HX3 5AX
Item tested:	CRUZ PUSHCHAIR 0420-CRZ-UK-BRY VISTA PUSHCHAIR 0320-VIS-UK-BRY
Description of item:	Refer to report details.
Identification of the test carried out:	BS EN 1888-1:2018 8.1.3.1.1 Restraint system of seat units as amended by BS EN 1888-2:2018 6.1.4 Strength of fasteners Additional 500 N strength test
Date(s) of performance of the assessment:	16/08/20
Conclusion: (results relate to the item tested)	COMPLIES
Report authorised by:	 John Trinci Test Laboratory Manager 16 August 2020

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1. SAMPLE DESCRIPTION

Cruz pushchair (figure 1)

4 wheeled folding pushchair with 2 rear fixed wheels with parking device and 2 front, lockable swivel wheels. Underseat storage basket and adjustable height push handle. Reclinable seat unit with adjustable footrest and removable bumper bar and hood. Seat unit can be removed by push buttons on either side of the chassis and can be positioned facing forward or rearwards. Seat unit is fitted with child's safety harness (figure 2) with adjustable height shoulder straps combined with waist straps attached to the seat back (and adjustable in length) and an adjustable crotch strap attached to the seat. The left side waist and shoulder strap is attached to a male fastener which is inserted into the left side of a female fastener attached to the crotch strap. The right side waist and shoulder strap is attached to a male fastener which is inserted into the right side of the female fastener. Both left and right fasteners are released in a single action, by depressing the front of the female fastener. The straps are composed of textile webbing and the fasteners of moulded plastic. The seat cover was marked with the batch date: Jan 2020. Approximate external dimensions: Length: 995 mm – 915 mm, height: 1060 mm, width: 590 mm



Figure 1 Cruz sample

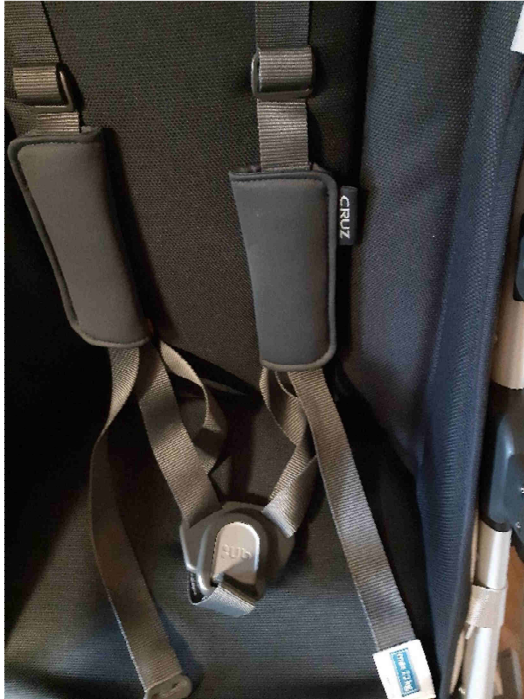


Figure 2 Harness on Cruz

Vista pushchair (figure 3)

4 wheeled folding pushchair, similar description to Cruz. The seat cover was marked with the batch date: Jan 2020. Approximate external dimensions: Length: 1010 mm – 910 mm, height: 1110 mm, width: 670 mm



Figure 3 Vista Sample

Vista and Cruz seat covers

1 Vista seat cover and 1 Cruz seat cover intended to be fitted to seat unit frame. The seat covers were marked with the batch date: Jan 2020.

2. EN 1888 RESTRAINT SYSTEM – STRENGTH OF FASTENERS TEST

2.1 Test Equipment

All test equipment used in the test meet the criteria specified in EN 1888-1 clause 4.3. These criteria and the test equipment (including temperature measuring equipment) used are part of CPSA's scope of UKAS accreditation.

2.2 Test Conditions

The temperature of the test laboratory in the area of storage of sample prior to testing and testing was in conformity with EN 1888-1 clause 4.4:

Storage conditioning prior to testing (12 hr): minimum: 19°C, maximum: 22°C

Temperature of laboratory during testing: minimum: 20°C, maximum: 21°C

2.3 Test Details

Relevant parts of the testing are reproduced in the table below.

BS EN 1888-1:2018

4.4 Test conditions

The vehicle shall be conditioned at a temperature of (23 ± 5) °C for at least 2 h prior to tests. All tests shall be carried out at a temperature of (23 ± 10) °C unless otherwise specified.

8.1.3 Restraint system and fasteners

8.1.3.1 Requirements

8.1.3.1.1 Restraint system of seat units

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When tested in accordance with 8.1.3.2.3 in any orientation, fasteners shall not be released and shall not have suffered damage which impairs their normal operation and function.

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8.1.3.2.3 Strength of fastener

A tensile force of 200 N shall be gradually applied to the straps either side of the fastener. Maintain this force for 1 min.

BS EN 1888-2:2018

6.1.4 Strength of fasteners

Conduct the test in accordance with EN 1888-1:2018, 8.1.3.2.3, applying a 250 N force

2.4 Results

The harnesses on the 2 stroller samples and 2 seat cover samples did not break or deform and were not released when a 250 N force was applied to the fastener via the straps either side of the fastener and maintained for a duration of 1 minute. After the tests there was found to be no signs of damage and the fasteners operated/functioned normally.

3. ADDITIONAL STRENGTH TESTS OF HARNESS

The test described in 2.3 and 2.4 above (250 N x 1 min) was repeated on the separate seat cover samples, except that the male fastener not under tensile load was release for the test (in order to determine whether the presence of the second male fastener affected the test). The fasteners were not released; after the tests there was found to be no signs of damage and the fasteners operated/functioned normally.

Additional tests were carried out on the seat cover samples - test described in 2.3 and 2.4 above was repeated. The load applied was increased from 250 N to 500 N and was maintained for 5 minutes. The fastener was not released; after the tests there was found to be no signs of damage (including deformation) and the fasteners operated/functioned normally.

4. CONCLUSION

The harnesses complied with the EN 1888 test and with an additional test of twice the load and 5 times the load duration of the EN 1888 test. It is inconceivable that these or any identical harness tested would fail EN 1888 were the test to be carried out in accordance with the standard.

**** END ****