



NSAI

ECE TYPE-APPROVAL CERTIFICATE

E24

Communication concerning:² Approval granted,
Approval extended,
Approval refused,
Approval withdrawn
Production definitively discontinued,

of restraining devices for child occupants of power-driven vehicles, pursuant to Regulation No. 129.

Approval No: **E24*129R03/07*0053*00**

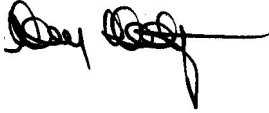

Reason(s) for extension: *N/A*

- | | |
|---|---|
| 1.1. Forward facing child restraint/ rearward facing child restraint/carry cot: ² | <i>Forward facing child restraint</i> |
| 1.2. Integral/non-integral/partial /booster cushion: ² | <i>Booster cushion</i> |
| 1.3. Belt type: ² | <i>(adult) three-point belt
(adult) lap-belt/
special type belt/retractor</i> |
| 1.4 Other features:
(Chair assembly/impact shield) | <i>N/A</i> |
| 2. Trade name or mark: | <i>CMC</i> |
| 3. Manufacturer's designation of the child restraint: | <i>CL002</i> |
| 4. Manufacturer's name and address: | <i>Ningbo CMC Invesment Co. LTD.
No.508 Tonghui Road, Investment Zone C,
Hongtang Town, Jiangbei, Ningbo,
315033 P. R. CHINA.</i> |
| 5. If applicable, name of his representative: | <i>N/A</i> |
| 6. Address: | <i>N/A</i> |
| 7. Submitted for approval on: | <i>21.02.2023</i> |



NSAI

Approval No: E24*129R03/07*0053*00

8. Technical service conducting approval tests: *TÜV SÜD Auto Service GmbH,
Westendstraße 199,
D-80686 München
Germany*
9. Type of device: *Deceleration/Acceleration²*
10. Date of test report issued by that service: *18.02.2023*
11. Number of test report issued by that service: *23-00297-CX-SHA-00*
12. Approval granted/~~extended/refused/withdrawn²~~
for size range 125cm to 150cm for i-Size ~~specific vehicle or~~
~~for use as a "special needs restraint",~~ position in
vehicle *Approval granted for for size range
125cm to 150cm for i-Size*
13. Position and nature of the marking: *See information folder for details.*
14. Place: *Dublin.*
15. Date: *15th March, 2023*
16. Signature:  
17. The following documents, bearing the approval number shown above, are attached to this communication:
- (a) drawings, diagrams and plans of the child restraint, including any retractor, chair assembly, impact shield fitted.
 - (b) ~~drawings, diagrams and plans of the vehicle structure and the seat structure, as well as of the adjustment system and the attachments, including any energy absorber fitted.~~
 - (c) photographs of the child restraint ~~and/or vehicle structure and seat structure.~~
 - (d) instructions for fitting and use.
 - (e) ~~list of vehicle models for which the restraint is intended.~~

¹ Distinguishing number of the country which has granted/extended/refused/withdrawn approval (see approval provisions in the Regulation).

² Strike out what does not apply



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Approval No: E24*129R03/07*0053*00

Index to the Information Package

Date of issue:	<i>15th March, 2023</i>
Date of latest amendment:	<i>N/A</i>
Reason for extension/revision:	<i>N/A</i>
1. Test report(s)	
- numbers(s):	<i>23-00297-CX-SHA-00</i>
- date of issue:	<i>18.02.2023</i>
- date of latest amendment:	<i>N/A</i>
2. Information document	
- number(s):	<i>CL002-00</i>
- date of issue:	<i>09.02.2023</i>
- date of latest amendment:	<i>N/A</i>
Documentation:	<i>45 pages.</i>



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Appendix: **Additional conditions, and advisory notes on legal alternatives**

A: Additional conditions:

1. The device, Type CL002, shall be marked as prescribed by the regulation.
2. Fitting instructions shall be supplied with each device, giving details of any limitations in the use of the device.
3. The device should be fitted in accordance with the fitting instructions.
4. The attached technical report, with any of its attachments, forms part of this Type Approval certificate.
5. Each type from series production shall be to the measurements specified in the attached drawings, and shall be manufactured only from the materials specified in the Approval documents.
6. Changes in the type are permitted only with the explicit permission of NSAI. Breaches of this requirement will lead to a withdrawal of the Type Approval, and in addition may be subject to criminal prosecution.
7. At regular intervals, any tests or associated checks prescribed by the applicable legislation to verify continued conformity with the approved type shall be carried out. The manufacturer shall demonstrate compliance with this by submitting to NSAI evidence of adequate arrangements and documented control plans for each type approved.
8. Any set of samples or test pieces showing evidence of non-conformity shall give rise to further sampling and testing and all steps shall be taken to restore conformity of production.
9. This Type Approval will expire when it is surrendered by the holder, or withdrawn by NSAI, or when the approved type no longer conforms to legal requirements. The recall of the Type Approval can be issued by NSAI when the conditions required for the issuing or continuation of the Type Approval are no longer current, or when the Approval holder is in breach of the duties attached to the Type Approval, or when it is established that the approved type no longer meets the requirements of traffic safety.
10. Changes in the company name, address or manufacturing site, as well as in any of the sales or other agents specified in the issuing of the approval must immediately be notified to NSAI.
11. The duties imposed by the issuing of this certificate are not transferable. The legal protection of third parties is not affected by this certificate.
12. When the manufacture or sale of the system, component or separate technical unit has not been started within one year of the date of issue of this certificate, then NSAI is to be informed. This requirement also applies when the manufacture or sale has been halted for more than one year, or when it ought to have been halted for more than one year. The initial commencement of manufacture or sale, or the resumption of manufacture or sale, shall then be notified to NSAI within one month of commencement or resumption.

B: Legal Options:

Any objection to the requirements set out in this certificate shall be made within one month of the date of issue. The objection shall be made, in writing, to NSAI in Dublin.

Test report No.: 23-00297-CX-SHA-00
Manufacturer: NINGBO CMC INVESTMENT CO. LTD.
Type: CL002



Auto Service

Test Report

No.: 23-00297-CX-SHA-00

Test of a type of component
with regard to UN/ECE Regulation No.
129
including all amendments up to
supplement 7 to the 03 series of amendments

Approval subject:
Enhanced Child restraint system

Approval status	
<input checked="" type="checkbox"/>	Granting of a type approval
<input type="checkbox"/>	Extension/correction to type approval no. : ---



Auto Service

Test report No.: 23-00297-CX-SHA-00
Manufacturer: NINGBO CMC INVESTMENT CO. LTD.
Type: CL002

I. General

Make (trade name of manufacturer) : CMC
Type : CL002
Variant(s) : N/A
Name and address of manufacturer : NINGBO CMC INVESTMENT CO. LTD.
NO.508 TONGHUI ROAD, INVESTMENT ZONE
C, HONGTANG TOWN, JIANGBEI, NINGBO,
315033 P. R. CHINA.
Name and address of manufacturer's
representative (if applicable) : N/A
Address(es) of assembly plant(s) : Ningbo Juyu Plastic Products Co., Ltd.
No.12, Xinzhi Road, Xinliangting Industrial
Zone, Daxu Town, Xiangshan County, Ningbo
City, Zhejiang Province, P.R. China
Location and method of affixing of the
approval mark : Stick-on label on the booster cover left and right
side

II. Test results

Refer to the Annex II

III. Enclosures

Information folder No. CL002-00 dated 09.02.2023 (dd.mm.yyyy)

IV. Statement of conformity

The mentioned information folder and the type described therein are in accordance with the test basis mentioned above. Sampling plan or method result from the requirements of the test basis. The worst-case configuration was selected in accordance with process description "Requirements for Test Reports (AS-PB-T-02)". Valid decision rule in accordance with ILAC G8:2019, 4.2.1: in question of meeting the limits the measurement uncertainty was ignored.

The manufacturer is responsible for the information (III.) and the test specimens provided by him. The test results relate only to the test specimens as received and mentioned (II.). The test specimens are representative for the type described (III.).

The test report may be reproduced and published in full and by the client only. It can be reproduced partially with the written permission of the test laboratory only.

TÜV SÜD Auto Service GmbH is designated as Technical Service by:

Approval authority	Country	Registration number
Kraftfahrt-Bundesamt (KBA)	Germany	KBA-P 00100-10
Vehicle Certification Agency (VCA)	United Kingdom	VCA-TS-006
Approval Authority of the Netherlands (RDW)	The Netherlands	RDWT-082-xx
National Standards Authority of Ireland (NSAI)	Ireland	Technical Service Number: 49
Société Nationale de Certification et d'Homologation (SNCH)	Luxembourg	13/B(g)
Swedish Transport Agency (STA)	Sweden	TT 0024



München, 18.02.2023 (dd.mm.yyyy)

Zhang, Lei



Auto Service

Test report No.: 23-00297-CX-SHA-00
Manufacturer: NINGBO CMC INVESTMENT CO. LTD.
Type: CL002

Annex I Reason of Extension

Correction of : ---

Modification of : ---

Addition of : ---

Deletion of : ---

Annex II Test results

Appendix 1 Test data

1. Description of the test object

- | | | |
|-------|--|---|
| 1.1. | Category(ies) | : Universal booster cushion |
| 1.2. | Size range | : 125 - 150 cm |
| 1.3. | Maximum occupant mass allowed for integral ECRS | : N/A |
| 1.4. | CRS orientation | : 125-150cm: forward-facing |
| 1.5. | Class of the retention system | : 125-150cm: booster cushion |
| 1.6. | Belt type | : (adult) three-point belt / (adult) lap belt / special type belt / retractor / not applicable |
| 1.7. | ISOFIX size envelope | : ISO/F2X / ISO/R2 / ISO/B2 / ISO/B3 / not applicable |
| 1.8. | Anti-rotation device | : top-tether / support leg / not applicable |
| 1.9. | Class of lock-off device | : A / B / not applicable |
| 1.10. | Shoulder strap positioner | : applicable / not applicable |
| 1.11. | Load limiting device | : applicable / not applicable |
| 1.12. | Type of retractor | : applicable / not applicable |
| 1.13. | Other features | : chair assembly / impact shield |
| 1.14. | Drawings, diagrams and plans of the child restraint, including any retractor, chair assembly, impact shield fitted | : see manufacturer's information document |
| 1.15. | Declaration on toxicity in accordance with EN 71-3 | : see manufacturer's information document |
| 1.16. | Declaration on flammability in accordance with EN 71-2 | : see manufacturer's information document |
| 1.17. | Instruction for use of CRS in the vehicle | : see manufacturer's instruction manual |
| 1.18. | Mass of the complete CRS | : 0.75-0.95kg |



Test report No.: 23-00297-CX-SHA-00
 Manufacturer: NINGBO CMC INVESTMENT CO. LTD.
 Type: CL002

2. Test conditions

- 2.1. Type of the test sample : CL002
- 2.2. Test procedures used : General specifications described in paragraph 6, tests described in paragraph 7, production qualification described in paragraph 9, compulsory markings and instructions described in paragraphs 4/5/14, according to the requirements of ECE Regulation No. 129
- 2.3. Test equipment : Used equipments fulfill all requirements of ECE Regulation No. 129
- 2.4. Remarks : N/A

3. Test results

Following numbering is according to ECE Regulation No. 129 / marked in italic /

Description	Result
4. <i>Markings</i>	:
4.1. Manufacturer's name, initials or trade mark	: pass / fail / not applicable
4.2. Year of production	: pass / fail / not applicable
4.3. Orientation, size range, maximum occupant mass, adult safety belt path marked by colour coding	: pass / fail / not applicable
4.4. Airbag warning label for rearward facing ECRS	: pass / fail / not applicable
4.5. "15 months" warning label in the case of ECRS that can be used forward facing	: pass / fail / not applicable
4.6. Webbing path	: pass / fail / not applicable
4.7.1. i-Size logo	: pass / fail / not applicable
4.7.2. Specific vehicle ISOFIX ECRS	: pass / fail / not applicable
4.7.3. Approval mark; Its location in case ECRS containing module(s)	: pass / fail / not applicable
4.7.4. Module mark and its location	: pass / fail / not applicable
4.8.1. "i-Size booster seat" label	: pass / fail / not applicable



Test report No.: 23-00297-CX-SHA-00
Manufacturer: NINGBO CMC INVESTMENT CO. LTD.
Type: CL002

- 4.8.2. "Specific vehicle booster seat" label : ~~pass~~ / ~~fail~~ / not applicable
- 4.8.3. "Universal booster cushion" label : pass / ~~fail~~ / ~~not applicable~~
- 4.8.4. "Specific vehicle booster cushion" label : ~~pass~~ / ~~fail~~ / not applicable
- 4.8.5. "Booster cushion" label : pass / ~~fail~~ / ~~not applicable~~
- 4.9. "Impact shield" label : ~~pass~~ / ~~fail~~ / not applicable
- 4.10. "Removable insert" label : ~~pass~~ / ~~fail~~ / not applicable
- 4.11. "Booster seat removable backrest" label : ~~pass~~ / ~~fail~~ / not applicable
- 4.12. "Stature range" label : pass / ~~fail~~ / ~~not applicable~~
- 4.13.1. "Universal Belted" label : ~~pass~~ / ~~fail~~ / not applicable
- 4.13.2. "Specific vehicle Belted" label : ~~pass~~ / ~~fail~~ / not applicable
- 4.13.3. Approval mark; Its location in case ECRS containing module(s) : ~~pass~~ / ~~fail~~ / not applicable
- 4.13.4. Module mark and its location : ~~pass~~ / ~~fail~~ / not applicable
- 4.14. Additional markings: a) steps needed for making CRS ready for installation; b) position, function and interpretation of any indicator; c) symbols of anti-rotation device; d) adjustment; e) permanently attached and visible to a user; f) reference symbol
6. *General specifications*
- 6.1. Positioning and securing on the vehicle
- 6.1.1. Enhanced Child Restraint Systems in the i-Size category are... are to be used according to manufacturer's instructions : pass / ~~fail~~ / ~~not applicable~~
- 6.1.2. Integral ECRS shall be secured to vehicle structure or to vehicle seat structure : ~~pass~~ / ~~fail~~ / not applicable
- 6.1.2.1. For i-Size, two ISOFIX attachments with an anti-rotation device ... : ~~pass~~ / ~~fail~~ / not applicable

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Type: CL002

- 6.1.2.2. For "Specific Vehicle ISOFIX", ... : ~~pass~~ / ~~fail~~ / not applicable
secured to ISOFIX anchorage
system as designed by vehicle
manufacturer
- 6.1.2.3. For the "Universal Belted" category, : ~~pass~~ / ~~fail~~ / not applicable
this shall be by means of the adult
safety-belt only
- 6.1.2.4. For the "Specific vehicle Belted" : ~~pass~~ / ~~fail~~ / not applicable
category, this shall be primarily by
means of the adult safety-belt
- 6.1.2.5. Integral Enhanced Child Restraint : ~~pass~~ / ~~fail~~ / not applicable
Systems of the Belted categories
Record: --- mm
shall have a main load-bearing
contact point, ... not be less than
150mm from Cr axis ... all
adjustment configurations and
variable belt paths
- 6.1.2.6. The adult safety-belt required to : ~~pass~~ / ~~fail~~ / not applicable
secure a Belted Integral Enhanced
Child Restraint System ... 50±5N ...
4±3N ...

Where the retractor belt is used, this : ~~pass~~ / ~~fail~~ / not applicable
condition shall be met with at least
Record: --- mm
150mm of belt remaining on the
spool
- 6.1.2.7. For children under 15 months only : ~~pass~~ / ~~fail~~ / not applicable
lateral or rearward facing shall be
used.
(a) rearward facing ... 83cm;
(b) forward facing ... 76cm;
(c) A convertible seat in its rearward
facing ... 83 cm. This shall not
preclude a child stature greater than
83 cm.
Rearward facing may be applied to
any age of child
- 6.1.2.8. An infant-carrier shall be designed : ~~pass~~ / ~~fail~~ / not applicable
to accommodate children up to 87
cm as a maximum stature
- 6.1.3. Non-integral ECRS shall be secured : ~~pass~~ / ~~fail~~ / not applicable
in a vehicle seating position



- 6.1.3.1. For i-Size booster seat and Universal booster cushion categories, by means of adult safety seat belt ... : ~~pass~~ / fail / not applicable
- 6.1.3.2. For specific vehicle booster seat and specific vehicle booster cushion categories, by means of adult safety seat belt ... : ~~pass~~ / fail / not applicable
- 6.1.3.3. For non-integral ... shall not be granted for a stature below 100cm; ... not be approved with an upper stature limit of 105cm or below; Booster seat shall insure lateral protection up to 135cm; ... uninterrupted range of child statures : ~~pass~~ / fail / not applicable
- 6.1.3.4. ECRS of the booster seat and booster cushion categories shall have a main load-bearing contact point, ... not be less than 150mm from Cr axis ... all adjustment configurations and variable belt paths : ~~pass~~ / fail / not applicable
Record: 160mm
- 6.1.3.5. The adult seat belt required to secure... at least 150 mm of belt remaining on the spool. A clamping mechanism used according to paragraph 7.1.3.5.2.2. shall not have any influence on the belt path. : ~~pass~~ / fail / not applicable
- 6.1.3.6. For booster cushions, type approval shall not be granted for a stature below 125 cm... Booster cushions shall ensure that ... described in Annex 6. : ~~pass~~ / fail / not applicable

Stature	Minimum sitting height	Test value
125-150cm	66.2cm	66.2cm



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Manufacturer: NINGBO CMC INVESTMENT CO. LTD.
Type: CL002

6.2. Configuration of the CRS

- 6.2.1.1. The restraint of the child shall give the required protection in any position specified : ~~pass~~ / fail / ~~not applicable~~
- 6.2.1.2. ... easily and readily restrained or removed. ... a harness belt or a Y-shaped belt without a retractor each shoulder restraint and lap strap ... movement relative to each other; ... designed with two or more connecting parts : ~~pass~~ / fail / ~~not applicable~~
- 6.2.1.3. Change in inclination shall not require manual readjustment of any other part. A deliberate hand-action shall be necessary ... : ~~pass~~ / fail / not applicable
- 6.2.1.4. To prevent submarining, a crotch strap shall be required on all forward-facing restraints incorporating an integral harness belt system : ~~pass~~ / fail / not applicable
- 6.2.1.5. All restraint devices utilizing a lap strap shall... The assembly shall...; In the case of non-integral ECRS, the angles α and β between the tangent line in which the belt touches the thighs and the horizontal shall be greater than 10° : ~~pass~~ / fail / ~~not applicable~~
Record: $\alpha_1=21.4$
 $\alpha_2=20.0$
 $\beta_1=31.5$
 $\beta_2=31.7$
- 6.2.1.6. ... not become disengaged from any guide or locking device utilized for the test conducted; however, for the shoulder portion of the standard safety-belt... the dummy is reached. : ~~pass~~ / fail / ~~not applicable~~
- 6.2.1.7. All straps ... discomfort ... or assume a dangerous configuration. Y-shaped belts are not permitted on forward facing ... only be used in dedicated rearward facing or lateral facing ECRS. The distance between ... appropriate dummy : ~~pass~~ / fail / ~~not applicable~~



- 6.2.1.8. With the crotch strap attached and in its longest position if adjustable, ... not ... adjust the lap strap to lie above the pelvis of both the smallest and largest dummy within the size range : pass / fail / not applicable
- 6.2.1.9. During dynamic test, the lap belt shall not ... An assessment shall be carried out... : pass / fail / not applicable
- 6.2.1.10. At least the worst case of the dynamic test for the Enhanced Child Restraint System shall be performed after conditioning (para. 7.2.6.) : pass / fail / not applicable
- 6.2.2.1. Not exhibit sharp edges or protrusions liable to cause damage to vehicle-seat covers or to occupant's clothing : pass / fail / not applicable
- 6.2.2.2. Its rigid parts do not, ... exhibit sharp edges capable of abrading the straps : pass / fail / not applicable
- 6.2.3. ... remove or detach without use of specific tools ... avoid any risk of incorrect assembly and use ... Any harness belt shall ... : pass / fail / not applicable
- 6.2.4. Special Needs Restraints may have additional restraining devices : pass / fail / not applicable
- 6.2.5. ECRS may be designed for use in any size range provided that it satisfies the requirements : pass / fail / not applicable
- 6.2.6. ... inflatable elements ...the conditions of use (pressure, temperature, humidity) have no influence on their ability to comply with the requirements : pass / fail / not applicable
- 6.3. ECRS specifications
- 6.3.1.1. Declaration on toxicity of materials in conformity with EN 71-3 : pass / fail / not applicable



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6.3.1.2. Declaration on flammability of materials in conformity with EN 71-2 : ~~pass / fail / not applicable~~
 Signed Declaration Received and
 Test Report Reference: EFSH20010598-CG-01+Rev2

6.3.2.1. Internal geometric characteristics in conformity with Annex 18 : ~~pass / fail / not applicable~~

Testing parameter	Unit	Result	Requirement
Configuration Measured	cm	125-150	-
ISO volume used to confirm external dimensions	-	B2	-
Calculated Stature Range	cm	125-150	-
D) Hip breadth measurement	cm	33.0	≥32.0

6.3.2.2. External dimensions : ~~pass / fail / not applicable~~

Configuration measured	125-150cm
ISO volume used to confirm external dimensions	B2
ECRS Adjustments that fit within volume	N/A
Head rest position	N/A
Recline position	N/A
Side wing position	N/A
Verification photos of physical check	Fulfilled
Verification image if checked using CAD drawing	Fulfilled

6.3.2.3. Mass of an integral ISOFIX ECRS combined with the largest child (≤33 kg) : ~~pass / fail / not applicable~~
 Mass of CRS: --kg
 Max. Mass of Occupant: --kg

For module systems the combined mass of the module & base shall be recorded. : ~~pass / fail / not applicable~~
 Mass of System: ---kg

6.3.3.1. Type of ISOFIX attachments : ~~pass / fail / not applicable~~

6.3.3.2. Dimensions of ISOFIX attachments : ~~pass / fail / not applicable~~

- 6.3.3.3. Partial latching indication : ~~pass~~ / ~~fail~~ / not applicable
- The ISOFIX ECRS shall : latch [Y/N]
 incorporate means by which ... indicator
 ISOFIX lower anchorages.
- The indication means may be : check [Y/N]
 audible,
- tactile or : check [Y/N]
- visual or : check [Y/N]
- a combination of two or more. : check [Y/N]
- In case of visual indication, it : check [Y/N]
 shall be detectable under all
 normal lighting conditions.
- 6.3.4. ISOFIX ECRS top tether strap
 specification
- 6.3.4.1. Type of top tether connector : ~~pass~~ / ~~fail~~ / not applicable
- 6.3.4.2. The ISOFIX top tether strap shall : ~~pass~~ / ~~fail~~ / not applicable
 be supported by webbing (or its
 equivalent), having a provision
 for adjustment and release of
 tension.
- 6.3.4.2.1. ISOFIX Enhanced Child Restraint : ~~pass~~ / ~~fail~~ / not applicable
 System top tether strap length Record: TT strap length --mm
 shall be at least 2,000 mm.
- 6.3.4.2.2. The ISOFIX top tether strap or : ~~pass~~ / ~~fail~~ / not applicable
 the ISOFIX ECRS shall be
 equipped ... device.
- 6.3.4.2.3. Engagement dimensions for : ~~pass~~ / ~~fail~~ / not applicable
 ISOFIX top tether hooks are
 shown in Figure 3(c).
- 6.3.5.1. Support-leg and support-leg foot : ~~pass~~ / ~~fail~~ / not applicable
 geometrical requirements

Test report No.: 23-00297-CX-SHA-00
 Manufacturer: NINGBO CMC INVESTMENT CO. LTD.
 Type: CL002

6.3.5.1. The support leg, including its attachment to the ECRS and the support-leg foot shall ... defined as follows : ~~pass~~ / fail / not applicable

Testing parameter	Unit	Result	Requirement
Width in Y	mm	-	≤200
Min Distances in X	mm	-	≥585
Max Distances in X	mm	-	≤695
Min Height in Z	mm	-	≤70
Max Height in Z	mm	-	≤285

6.3.5.2. The support leg foot assessment volume is defined as follows : ~~pass~~ / fail / not applicable

Testing parameter	Unit	Result	Requirement
Adjustment increments	mm	-	≤20
Width in Y	mm	-	≤200
Min Distances in X	mm	-	≥585
Max Distances in X	mm	-	≤695
Min Height in Z	mm	-	≤285
Max Height in Z	mm	-	≥540

6.3.5.3. Support-leg foot dimensions : ~~pass~~ / fail / not applicable

Testing parameter	Unit	Result	Requirement
Contact Surface	mm ²	-	≥2500
Min X'	mm	-	≥30
Min Y'	mm	-	≥30
Min Radius	mm	-	≥3.2

6.3.5.4. Support-leg foot jig or computer simulation : ~~pass~~ / fail / not applicable

6.4. Markings conform to the requirements of paragraph 4 : pass / fail / ~~not applicable~~

6.5. Instructions on installation and instructions for use conform to paragraph 14 : pass / fail / ~~not applicable~~

6.6. Provisions applicable to the assembled ECRS

6.6.1. Resistance to corrosion (NSS, 50 hours) : ~~pass~~ / fail / not applicable

Description of parts tested	Result
Buckle, Adjuster, Connector sheet, ISOFIX, Support leg, Top tether hook, Metal skeleton	no signs of deterioration likely to impair the proper functioning and no significant corrosion

Test report No.: 23-00297-CX-SHA-00
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6.6.2. Energy absorption : ~~pass~~ / fail / not applicable
 (mass of 2.75kg, height of 100mm)

	Head impact area	Result	Requirement
Peak acceleration [g]	Head support middle	-	≤ 60
	Head support left	-	
	Head support right	-	
Depth of side wings [mm] (for rearward-facing device)		-	≥ 90

Note: the height of the adult safety belt or the child harness is directly controlled by the adjustable head support.

6.6.3. Overturning : ~~pass~~ / fail / not applicable
 (angle of 540°, speed of 2-5 degrees /s)

Load applied to the ECRS : 4 times the weight of below dummy respectively

Configuration	Dummy	Head vertical movement [mm]				Requirement
		clock-wise	counter-clockwise	roll ahead	roll back	
125-150 cm, Forward facing, Installation: (adult) three-point belt, retention of child: (adult) three-point belt	Q6 23kg	50	50	70	70	No fully ejected; Head vertical movement ≤ 300mm
	Q10 36kg	30	30	40	40	

Test report No.: 23-00297-CX-SHA-00
 Manufacturer: NINGBO CMC INVESTMENT CO. LTD.
 Type: CL002

- 7.1.3. *Dynamic test* : pass / fail / not-applicable
Mass of the trolley used : 420kg
Type of dynamic test device : Acceleration / deceleration
Deceleration or acceleration curve of frontal or rear impact : fulfilled
Relative velocity curve of lateral impact : fulfilled / not applicable

Testing parameter	Unit	Result		Requirement
Size range	cm	125 - 150		-
ECRS Configuration	-	universal booster cushion		-
Orientation	-	forward / rearward facing		-
Installation	-	adult 3-point belt		-
Restraint of dummy	-	adult 3-point belt		-
Backrest position	-	n/a		-
Support leg	-	in use / not in use / n.a.		-
Top tether	-	in use / not in use / n.a.		-
Impact direction	-	frontal impact		-
Test Reference Number	-	CL-1	CL-2	-
Dummy size	-	Q6	Q10	-
Bar representing the facia	-	-	-	-
Installation	N	Load cell 1	50.8	50 ±5
Belt Forces		Load cell 2	51.6	
Total Velocity Change	km/h	50.17	50.32	52 +0/-2 (F); 32 +2/-0 (R)
Head performance criterion	-	294	118	≤800
Res. Head acceleration 3 ms	g	61.89	39.77	≤80
Res. Chest acceleration 3 ms	g	40.81	33.64	≤55
Chest deflection	mm	44.28	43.93	-
Upper neck tension force	N	1815.02	1478.39	-
Upper neck flexion moment	Nm	33.62	13.40	-
Head displacement	x (horizontal)	mm	319	≤500/550
	at time	ms	114	≤300
	z (vertical)	mm	777	≤800/840
	at time	ms	201	≤300
Exceeding BA / FG (forwards)	-	no	no	no
Exceeding DA / FD (upwards)	-	no	no	no
Exceeding DE / DE (rearwards)	-	no	no	no
Contacting with Ø100mm bar	-	-	-	-
Lap belt beyond the pelvic fully	-	no	no	no
Buckle opening force under load	N	-	-	≤80
Failure or brakeage	-	none	none	none
Abdominal pressure	Bar	0.30	0.94	≤1.0/1.2
Remark: ---				

6.6.5. Resistance to temperature : ~~pass~~ / ~~fail~~ / not applicable

	Result	Requirement
<input type="checkbox"/> Buckle	No signs of deterioration likely to impair the proper functioning	No signs of deterioration likely to impair the proper functioning
<input type="checkbox"/> Retractor		
<input type="checkbox"/> Adjuster		
<input type="checkbox"/> Lock-off device		

6.7. Provisions applicable to individual components of the restraint

6.7.1. Buckle

6.7.1.1. To preclude any incorrect manipulation, not possible to exchange the buckle parts, contact width : ~~pass~~ / ~~fail~~ / not applicable

6.7.1.2. Remain closed. Easy to operate and to grasp. Open it by pressure on a button : ~~pass~~ / ~~fail~~ / not applicable

Buckle type	Button	Result	Requirement	
-	<input type="checkbox"/> enclosed	Width [mm]	-	≥ 15
		Area [cm ²]	-	≥ 4.5
	<input type="checkbox"/> non-enclosed	Width [mm]	-	≥ 10
		Area [cm ²]	-	≥ 2.5

6.7.1.3. The release area shall be coloured red, no other part of the buckle shall be of this colour : ~~pass~~ / ~~fail~~ / not applicable

6.7.1.4. A single operation on a single buckle. Allowed to remove the child together with devices such as infant carrier/carry-cot if CRS can be released by operation of a maximum of two release buttons : ~~pass~~ / ~~fail~~ / not applicable

	Result	Requirement
Force to fasten the shoulder strap positioner [N]	-	≤ 15
Force to release the shoulder strap positioner [N]	-	≤ 15
Height of the shoulder strap positioner [mm]	-	≤ 60

6.7.1.5. Opening the buckle shall enable the child to be removed independently : ~~pass~~ / ~~fail~~ / not applicable

6.7.1.6. 5000 ± 5 cycles before dynamic test : ~~pass~~ / ~~fail~~ / not applicable

6.7.1.7. Buckle opening force : ~~pass~~ / ~~fail~~ / not applicable

Buckle type	Test	Result	Requirement
-	Under load	-	≤ 80 N
	No load	-	40~80 N

6.7.1.8. Strength of the buckle : ~~pass~~ / ~~fail~~ / not applicable

Buckle type	Sample	Result	Requirement
-	No. 1	-	4kN if the mass limit ≤ 13kg; 10kN if the mass limit > 13kg
	No. 2	-	

6.7.2. Adjusting device

6.7.2.1. Range of adjustment : ~~pass~~ / ~~fail~~ / not applicable

6.7.2.2. Quick adjuster : ~~pass~~ / ~~fail~~ / not applicable

6.7.2.3. Easy to reach : ~~pass~~ / ~~fail~~ / not applicable

6.7.2.4. Force to operate a manual adjusting device : ~~pass~~ / ~~fail~~ / not applicable

		Result	Requirement
Force [N]	Pull out	-	≤ 50
	Pull in	-	

6.7.2.5. Microslip test : ~~pass~~ / ~~fail~~ / not applicable

		Result	Requirement
Microslip [mm]	Sample 1	-	≤ 25
	Sample 2	-	

6.7.2.6. No broken or detached when ease of adjustment : ~~pass~~ / ~~fail~~ / not applicable

6.7.2.7. 5000 ± 5 cycles before dynamic test : ~~pass~~ / ~~fail~~ / not applicable

6.7.3. Retractors : ~~pass~~ / ~~fail~~ / not applicable



- 6.7.4. Straps : ~~pass~~ / ~~fail~~ / not applicable
- 6.7.5. ISOFIX attachment specifications
- 6.7.5.1. 2000 ± 5 cycles before dynamic test : ~~pass~~ / ~~fail~~ / not applicable
- 6.7.5.2. Locking mechanism of ISOFIX attachment : ~~pass~~ / ~~fail~~ / not applicable

Type	Result	Requirement
(a)	Two consecutive actions	Two consecutive actions
(b)	Opening force = N	Opening force ≥ 50N

- 6.7.6. Lock-off device
- 6.7.6.1. The lock-off device shall be permanently attached to the Enhanced Child Restraint System. : ~~pass~~ / ~~fail~~ / not applicable
- 6.7.6.2. The lock-off device shall not impair the durability of the adult belt and shall undergo the temperature test operation requirements given in paragraph 7.2.7.1. : ~~pass~~ / ~~fail~~ / not applicable
- 6.7.6.3. The lock-off device shall not prevent the rapid release of the child. : ~~pass~~ / ~~fail~~ / not applicable
- 6.7.6.4. Class A Device : ~~pass~~ / ~~fail~~ / not applicable
The amount of slip of the webbing shall not exceed 25mm after the test prescribed in Paragraph 7.2.9.1. below.
- 6.7.6.5. Class B Device : ~~pass~~ / ~~fail~~ / not applicable
The amount of slip of the webbing shall not exceed 25mm after the test prescribed in Paragraph 7.2.9.2. below.
- 6.8. ECRS may cover any size range : ~~pass~~ / ~~fail~~ / not applicable

Test report No.: 23-00297-CX-SHA-00
 Manufacturer: NINGBO CMC INVESTMENT CO. LTD.
 Type: CL002

9. Production qualification

9.1. Tests to qualify production : pass / fail / not applicable

9.2. Qualifying the production of CRS

9.2.1. Dynamic tests for frontal and rear impact : pass / fail / not applicable

Testing parameter	Result					Requirement
CRS orientation	forward / rearward facing					-
Installation	adult 3-point belt					-
Restraint of dummy	adult 3-point belt					-
Backrest position	n/a					-
Support leg	in-use / not in-use / n.a.					-
Top tether	in-use / not in-use / n.a.					-
Type of test device	acceleration / deceleration					-
Impact direction	frontal / rear impact					-
Dummy size	Q6					-
Test Reference Number	CL-3	CL-4	CL-5	CL-6	CL-7	-
Dashboard bar	-	-	-	-	-	-
Installation Belt Forces	Load cell 1	51.2	50.7	52.2	50.6	50 ±5
	Load cell 2	52.1	49.6	52.1	50.4	
Total Velocity Change [km/h]	50.11	50.03	50.09	50.03	50.02	52 +0/-2 (F)
Head performance criterion	181	255	195	291	299	≤ 800
Res. head 3ms [g]	47.96	57.32	48.85	60.90	63.48	≤ 80
Res. chest 3ms [g]	33.59	43.17	44.33	37.46	48.33	≤ 55
Abdominal pressure [Bar]	0.58	0.31	0.09	0.35	0.34	≤ 1.0
Fz [N]	2377.6	2979.3	2854.5	2664.7	2739.3	-
My [Nm]	32.89	37.96	36.52	11.19	10.25	-
Horizontal head excursion [mm /ms]	311/ 111	291/ 112	286/ 113	305/ 117	296/ 116	≤ 1.05L ⁽¹⁾ , L = 500
	762/ 201	764/ 198	755/ 187	771/ 188	756/ 197	
Vertical head excursion [mm /ms]						≤ 800
Lap belt (6.2.1.8)	no	no	no	no	no	no
Buckle opening force under load [N]	-	-	-	-	-	≤ 80
Failure or brakeage	none	none	none	none	none	none
-	Horizontal head excursion[mm]		Res. head 3ms [g]		Res. chest 3ms [g]	-
Mean of values X	297.80		55.70		41.38	-
Standard deviation S	9.11		6.28		5.22	-
X + S	306.91		61.98		46.60	≤ L ⁽²⁾ , L = 500

(1) L = the limit value prescribed; (2) the limit value only used for Horizontal head excursion



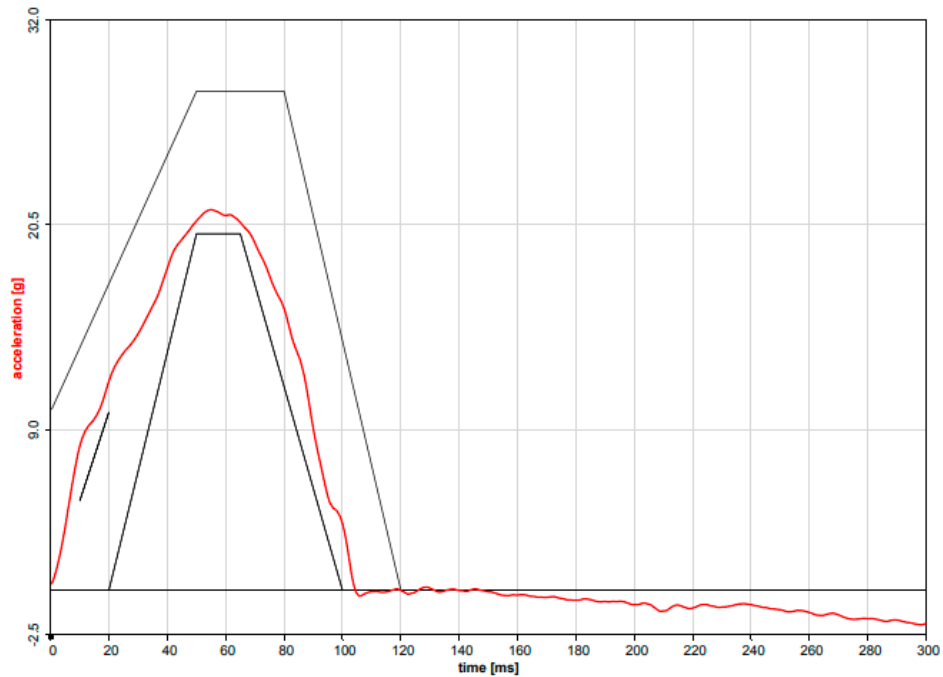
Auto Service

Test report No.: 23-00297-CX-SHA-00
Manufacturer: NINGBO CMC INVESTMENT CO. LTD.
Type: CL002

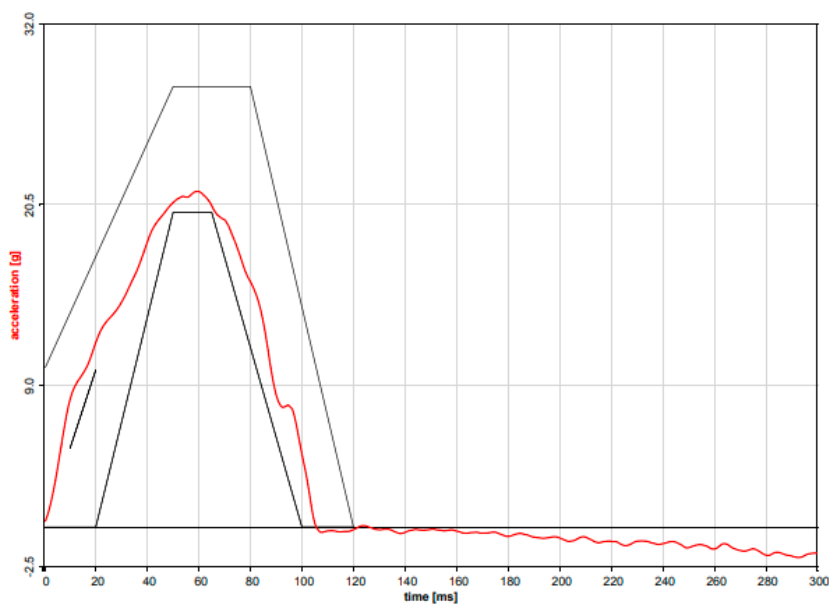
-
- 9.2.2. Dynamic tests for lateral impact: : ~~pass~~ / ~~fail~~ / not applicable
- 9.2.3. Control of markings: : ~~pass~~ / ~~fail~~ / not applicable
14. Information for users
- 14.1. Instructions in the language of the country : ~~pass~~ / ~~fail~~ / not applicable
where the device is sold:
- 14.2. Instructions on installation: : ~~pass~~ / ~~fail~~ / not applicable
- 14.3. Instructions for use: : ~~pass~~ / ~~fail~~ / not applicable
- 4. Place and date of the test** : CATARC Automotive Component Test
Center (Ningbo) Co., Ltd.
25.01.2023 to 10.02.2023 (dd.mm.yyyy)

Annex II Test results Appendix 2 Acceleration curve

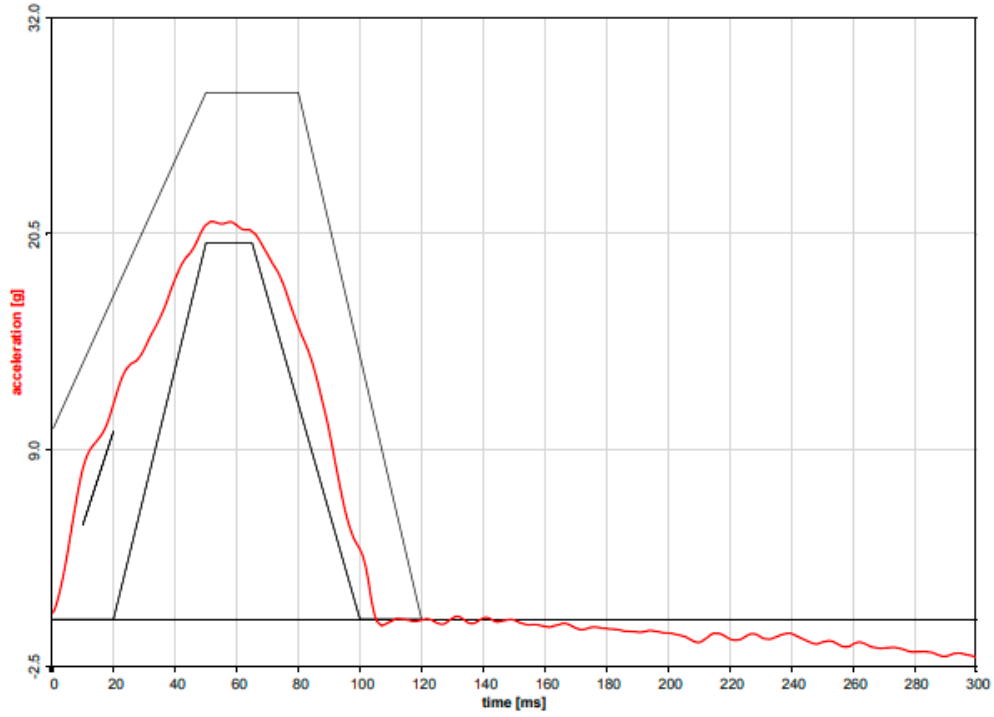
1 CL-1



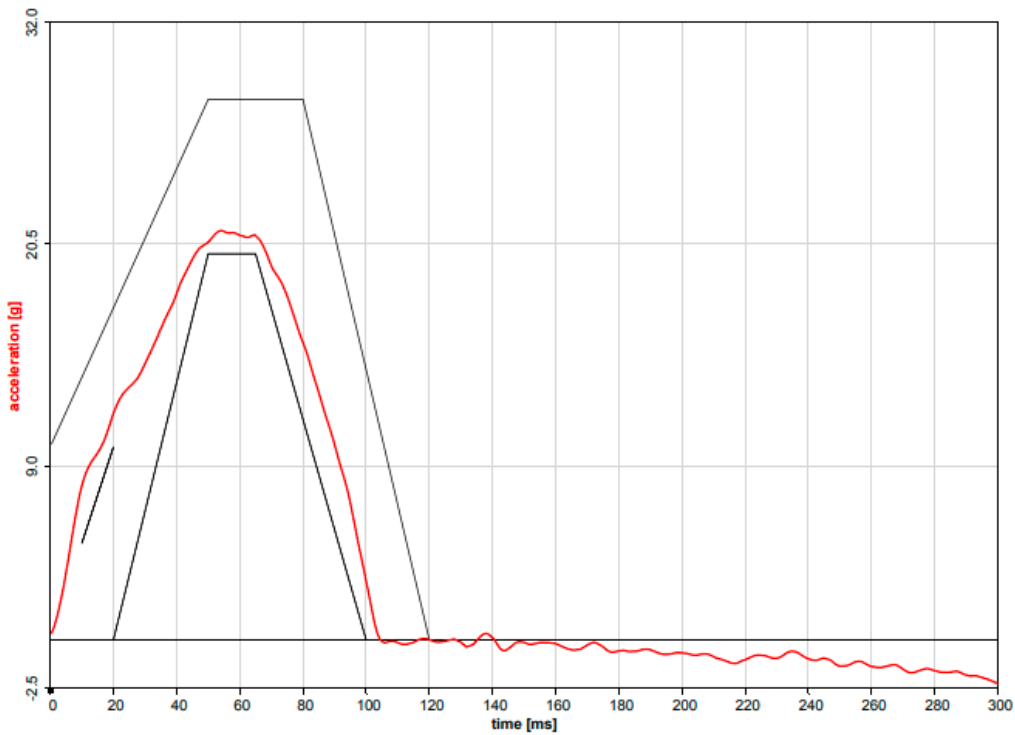
2 CL-2



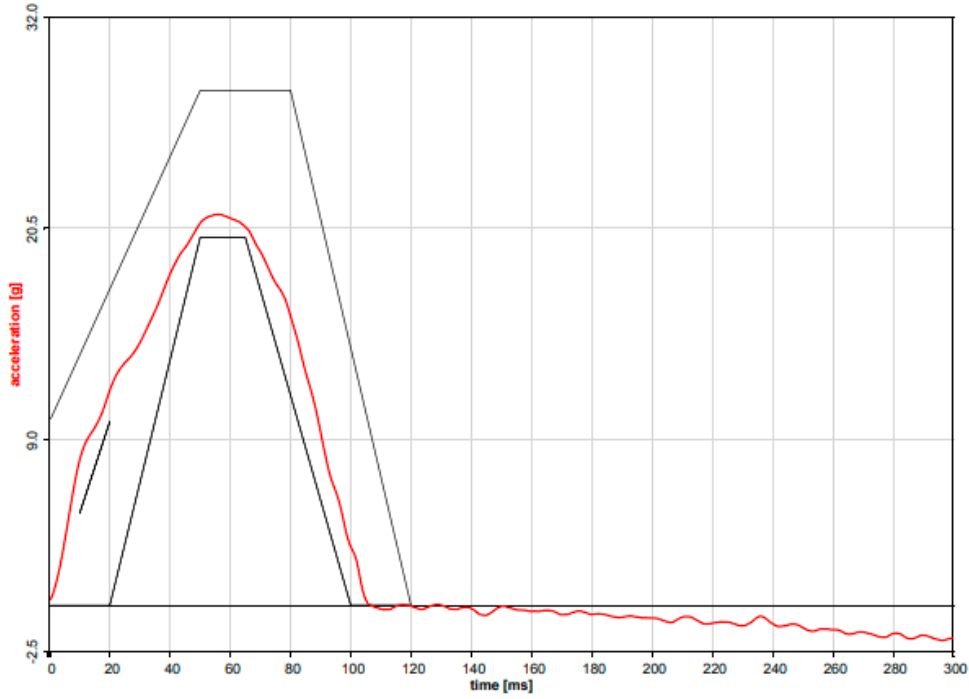
3 CL-3



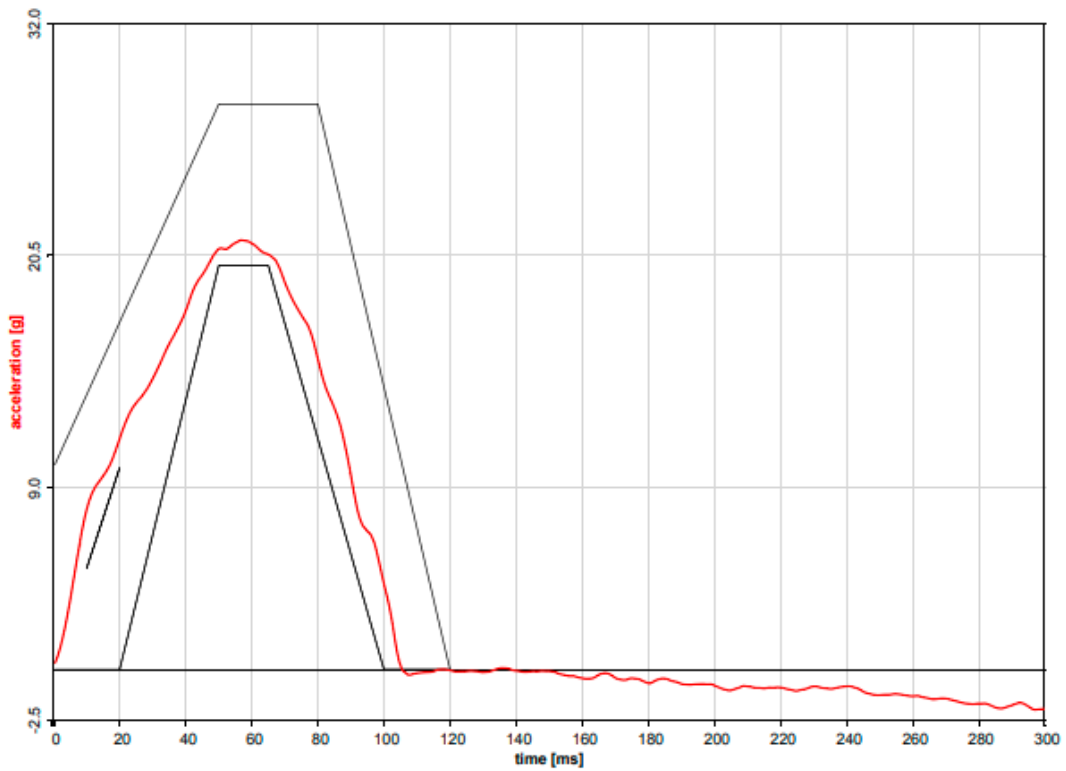
4 CL-4



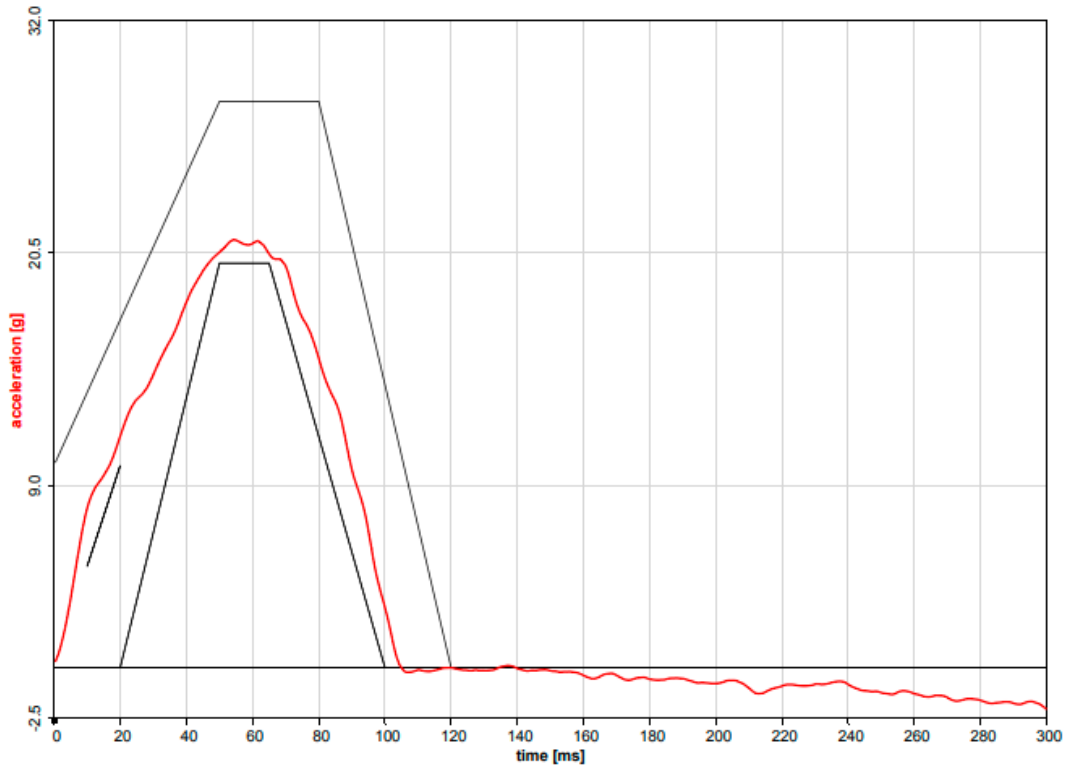
5 CL-5



6 CL-6



7 CL-7



	NINGBO CMC INVESTMENT CO. LTD.	Type: CL002
		Information document No.: CL002-00
		Date: 2023-02-09
		Page No.: 1 of 7

**UNIFORM PROVISIONS CONCERNING
THE APPROVAL OF ENHANCED CHILD RESTRAINT SYSTEMS
USED ON BOARD OF MOTOR VEHICLES**

(UNECE Regulation No. 129. 03)

**FOR PRODUCT TYPE
CL002**

- Application for type approval**
- Application for extension of type approval**
Number of approval: ---

	NINGBO CMC INVESTMENT CO. LTD.	Type: CL002
		Information document No.: CL002-00
		Date: 2023-02-09
		Page No.: 2 of 7

Confirmation

We declare hereby that the specimens of Child Car Seat submitted for this type approval test have been manufactured and assembled on conditions of ordinary mass production and that they are compatible with enclosed documentation.

宁波翔宏工贸有限公司
NINGBO CMC CO., LTD.



	NINGBO CMC INVESTMENT CO. LTD.	Type: CL002
		Information document No.: CL002-00
		Date: 2023-02-09
		Page No.: 3 of 7

0 GENERAL

- 0.1 Trade name or mark: CMC
- 0.2 Type or designation of ECRS: CL002
- 0.2.1 Variant(s): n/a
- 0.5 Name of manufacturer: NINGBO CMC INVESTMENT CO. LTD.
- 0.5.1 Address of manufacturer: NO.508 TONGHUI ROAD, INVESTMENT ZONE C, HONGTANG TOWN, JIANGBEI, NINGBO, 315033 P. R. CHINA.
- 0.7 In the case of components and separate technical units, location and nature of ECE approval mark: Stick-on label on the booster cover left and right side
- 0.8 Address(es) of assembly plant(s): Ningbo Juyu Plastic Products Co., Ltd. No.12, Xinzhi Road, Xinliangting Industrial Zone, Daxu Town, Xiangshan County, Ningbo City, Zhejiang Province, P.R. China

1 DESCRIPTION OF THE DEVICE

- 1.3 Child restraint system
 - 1.3.1 Category(ies): Universal booster cushion
 - 1.3.2 Size range in centimeters: 125-150cm
 - 1.3.3 Maximum occupant mass allowed for integral ECRS: n/a
 - 1.3.4 CRS orientation: 125-150cm: forward-facing
 - 1.3.5 Class of the retention system: 125-150cm: booster cushion
 - 1.3.6 Belt type: (adult) three-point belt
 - 1.3.7 ISOFIX size envelope: ISO/F2x ISO/R2 ISO/B2
 n/a
 - 1.3.8 Anti-rotation device: n/a

	NINGBO CMC INVESTMENT CO. LTD.	Type: CL002
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- 1.3.9 Class of lock-off device: A B n/a
- 1.3.10 Shoulder strap positioner: applicable not applicable
- 1.3.11 Load limiting device: applicable not applicable
- 1.3.12 Type of retractor: ~~automatically-locking /emergency-locking~~ /n/a⁽¹⁾
- 1.3.13 Other features: ~~chair assembly /impact shield~~⁽¹⁾
- 1.3.14 Drawings, diagrams and plans of the child restraint, including any retractor, chair assembly, impact shield fitted: see corresponding drawings attached according to BOM list
- 1.3.15 Declaration on toxicity of materials in accordance with par. 6.3.1.1 of ECE R129: n/a
- 1.3.16 Declaration on flammability of materials in accordance with par. 6.3.1.2 of ECE R129: see Statement concerning the Flammability in page 6
- 1.3.17 User guide: see Instruction manual and Installation label
- 1.3.18 Mass of the complete CRS: 0.75-0.95kg
- 1.3.19 Brief description of installation in vehicle: 125-150cm: adult 3-point belt
- 1.3.20 Brief description of the retention of the child within the restraint system: 125-150cm: adult 3-point belt
- 1.3.21 Backrest inclination adjustment of CRS: n/a
- 1.3.22 Module: n/a
- 1.3.23 Other description: n/a

⁽¹⁾ Strike out what does not apply.

	NINGBO CMC INVESTMENT CO. LTD.	Type: CL002
		Information document No.: CL002-00
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2 PHOTOGRAPHS OF THE DEVICE



Front view



Back view



left side view



right side view

	NINGBO CMC INVESTMENT CO. LTD.	Type: CL002
		Information document No.: CL002-00
		Date: 2023-02-09
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Statement concerning the Flammability

We hereby declare that the materials used to manufacture the ECRS are in conformity with the requirements of paragraph 6.3.1.2 (EN71-2:2011+A1:2014 section 5.4) in ECE regulation No. 129.03 regarding to the toxicity and flammability.

Responsible person:

(Position) / (Name): General Manager/Sam Song

(Company name): NINGBO CMC INVESTMENT CO. LTD.

宁波翔宏工贸有限公司
NINGBO CMC CO., LTD.



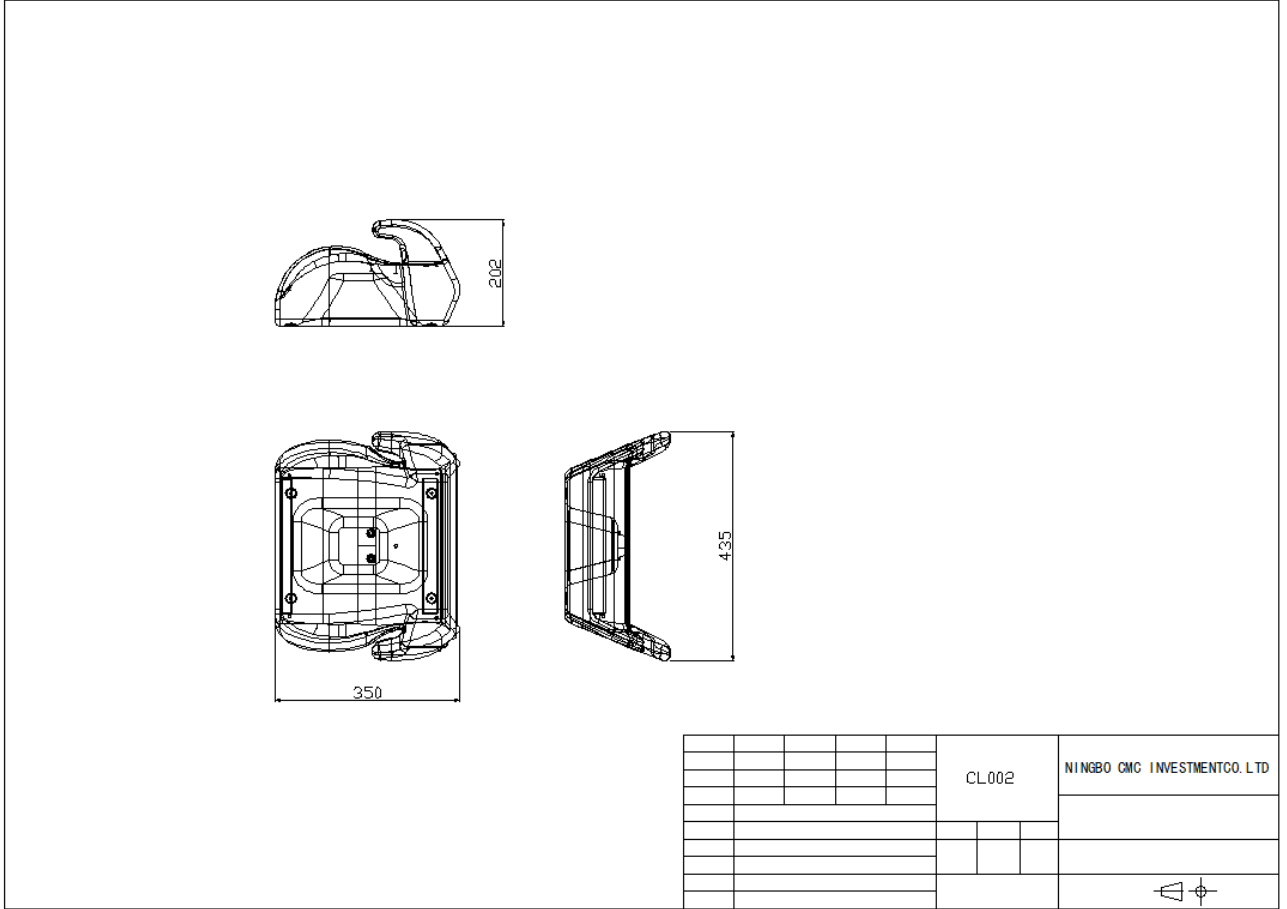
	NINGBO CMC INVESTMENT CO. LTD.	Type: CL002
		Information document No.: CL002-00
		Date: 2023-02-09
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Annex list

Content		Page No.
BOM		1
Drawings	CRS assembly diagram	-
	CRS exploded view	-
	Parts	2
ISOFIX size envelope		3
Labels / markings on a product and their locations		4-5
Instruction manual		6-12
Packing information		13

BOM LIST

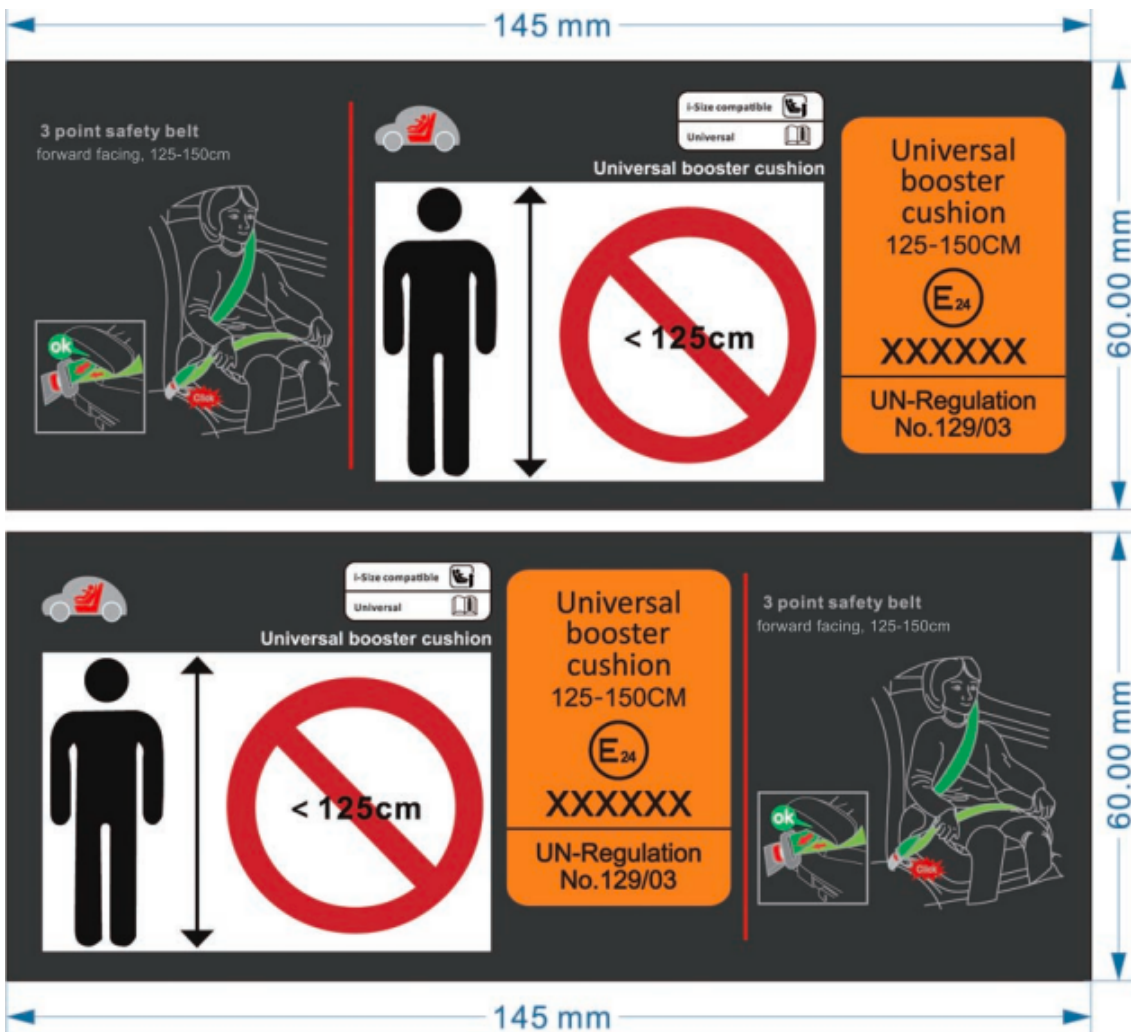
Type: CL002					
No.	Part Name	Drawing No.	Material	Mass	Quantity
1	booster body	CL-002	HDPE	750-950g	1
2	booster cover	/	Foam+polyester	80-160g	1



CL002 in B2 Box



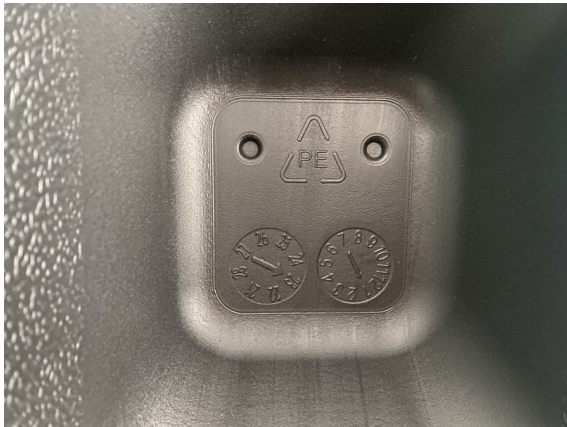
Labels / markings on a product and their locations



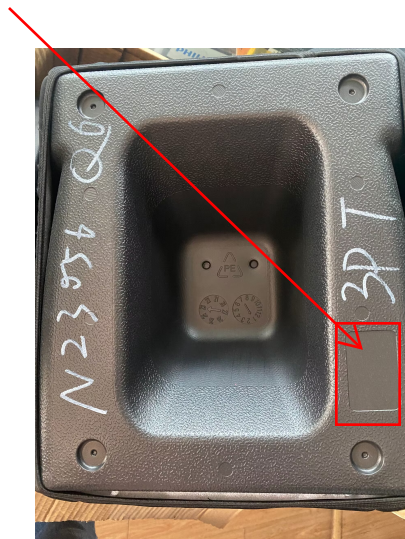
E-mark label range:45mm*30mm



Production date:



trade name, on the bottom of the base:



NINGBO CMC
INVESTMENT CO. LTD
CL002
Use manual





Warning!

In order to provide your child with greatest security, please read this instruction manual carefully:

The rigid items and plastic parts of an Enhanced Child Restraint System shall be so located and installed that they are not liable, during everyday use of the vehicle, to become trapped by a movable seat or in a door of the vehicle.

Any straps holding the restraint to the vehicle should be tight.

It is important to ensure that any lap strap is worn low down.

The Enhanced Child Restraint System should be replaced when it has been subject to violent stresses in an accident.

It is danger to make any alterations or additions to the device without the approval of the Type Approval Authority, and it is also danger not following closely the installation instructions provided by the Enhanced Child Restraint System manufacturer.

- Be sure that children are not left in their Enhanced Child Restraint System unattended
- Be sure that any luggage or other objects liable to cause injuries in the event of a collision shall be properly secured.
- Be sure that the Enhanced Child Restraint System shall not be used without the cover.
- Be sure that the Enhanced Child Restraint System cover should not be replaced with any other than the one recommended by the manufacturer, because the cover constitutes an integral part of the restraint performance.
- Product description

Type	Stature	Facing direction	Installation	Approval type
1	125-150cm	Forward	adult three point belt	Universal booster cushion

Notes

This is a Universal booster cushion Enhanced Child Restraint System. It is approved according to UN Regulation No.129, for use in i-Size compatible and universal vehicle seating positions as indicated by vehicle manufacturer in the vehicle user's manual.

If in doubt, consult the Enhanced Child Restraint System manufacturer or the retailer.

125-150cm:adult safety-belt only.

Use in the vehicle

- Never use this child restraint system in seating positions where an active frontal airbag is installed.
- An active frontal airbag may cause death or seriously injury of your child in an accident.
- Please read the instructions carefully and keep safely for future reference. There is an instructions compartment in the back of the child car seat for storage of the instructions manual.
- You can use your child car seat as follows:

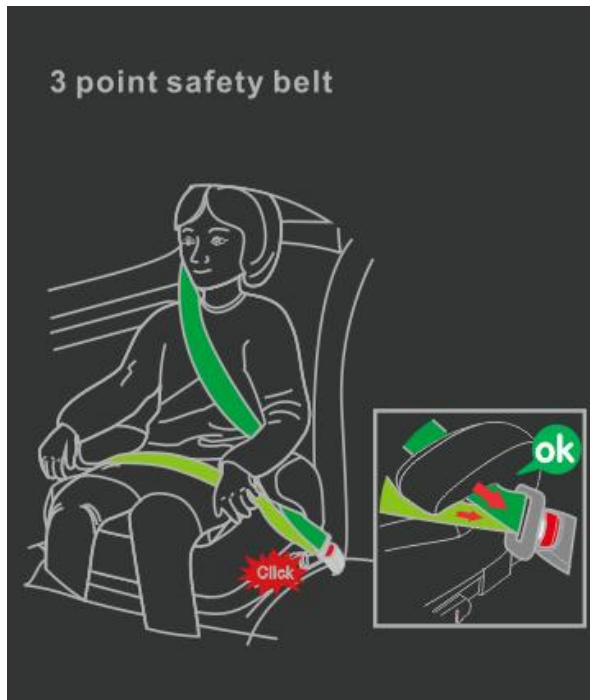


Installation in the vehicle with 3 point belt

Place the child in the booster booster seat.

Shoulder belt limit hook must be adjusted so that the shoulder strap is at the same level as your child' s shoulder.

Fasten the safety belt buckle until you hear a click. Be sure the safety belt is not twisted and the lap belt shall be worn over the hips.



Maintenance

1. Washing

The covers can be removed and washed under 30°C clean water;
Clean the shell using a damp cloth.

2. Safety Self-Checking

If you have trouble on installation, please contact manufacturer.

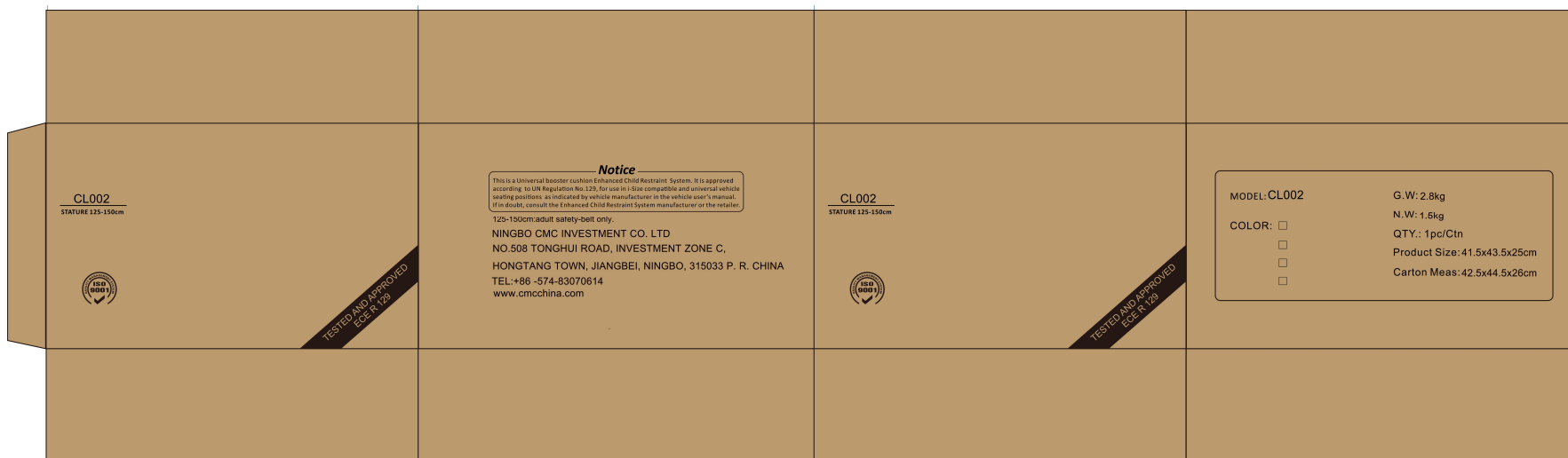
Checking car belt on time to make sure the safety, once find the broken, please contact manufacturer.

3. Handle after accident

After colliding by accident, please change baby car seat. Or contact manufacturer.

4. contact

TEL: 86 574-83070614



外箱尺寸:42.5x44.5x26cm