



Aluminum Honeycomb Barrier For Safety Test Of New Vehicles

Company Profile

Shenzhen CANSINGA Technology Co., Ltd, led by academicians of Chinese Academy of Engineering, is a national level specialized enterprise that produces cutting-edge products, also nicknamed "little giant". We are committed to becoming the world's leading provider of aluminum honeycomb materials and lightweight structural solutions. We provide aluminum honeycomb products and technology development services for new car evaluation, aerospace and maritime, national defense and military industry, rail transportation, automobile safety, transportation infrastructure, intelligent traffic safety and other fields. The products and services have covered more than ten countries and regions in the world, including Europe and the United States.

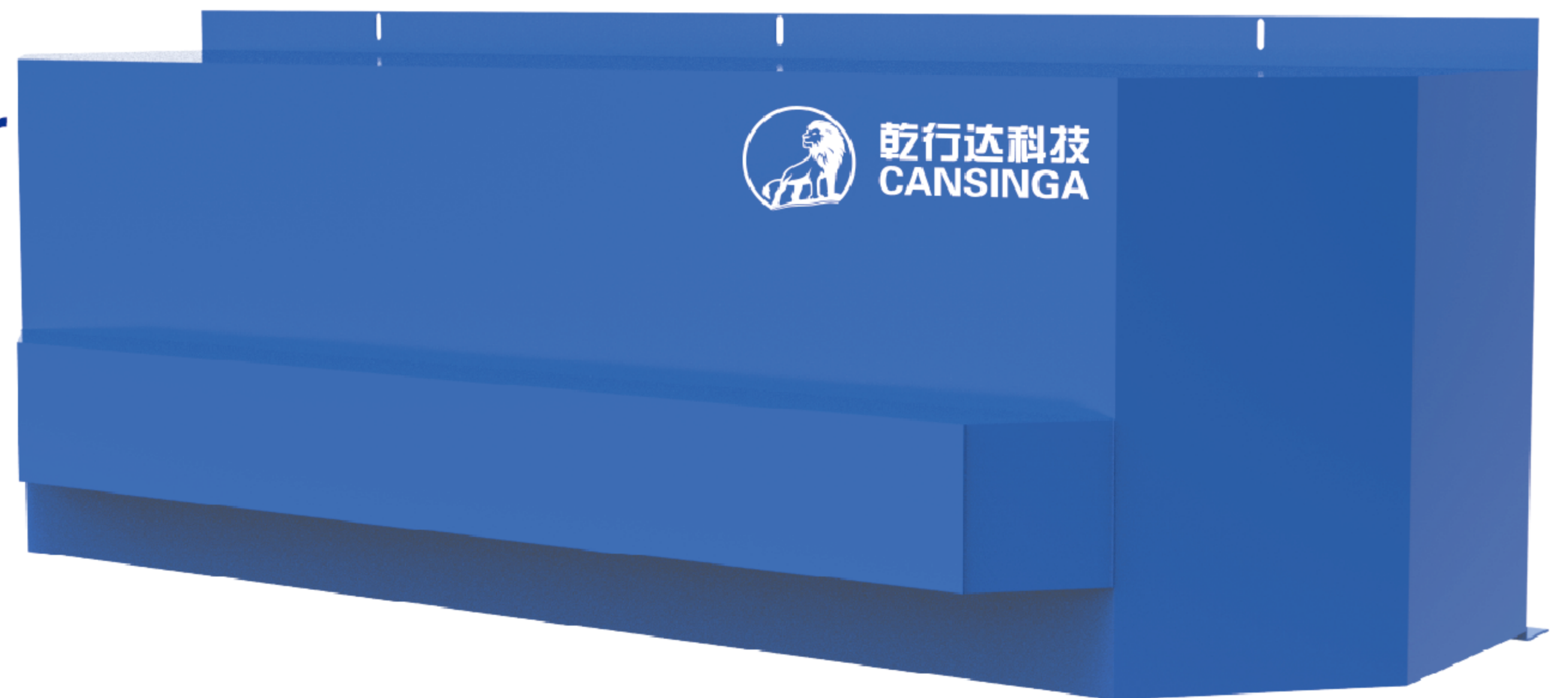
CANSINGA has successively won such honors as the National High-tech Enterprise, the Application Model Enterprise, the "little giant" Enterprise by the MIIT of the People's Republic of China, China Patent Excellence Award, etc. Relying on the Academician Workstation, Postdoctoral Innovation Practice Base, Traffic Safety Protection Laboratory and other innovation carriers, CANSINGA has made efforts to build a diversified innovation platform. Taking the internationally leading safety protection technology as the goal, we have broken the monopoly of many foreign products and technologies.

In 2020, the Company completed round A financing and obtained the capital from China Merchants Group and Shenzhen High-tech Investment. The company has always adhered to the corporate mission of "making travel safer with scientific and technological innovation", and is committed to becoming an outstanding company that contributes to the "zero death" of transportation.



SC-MDB

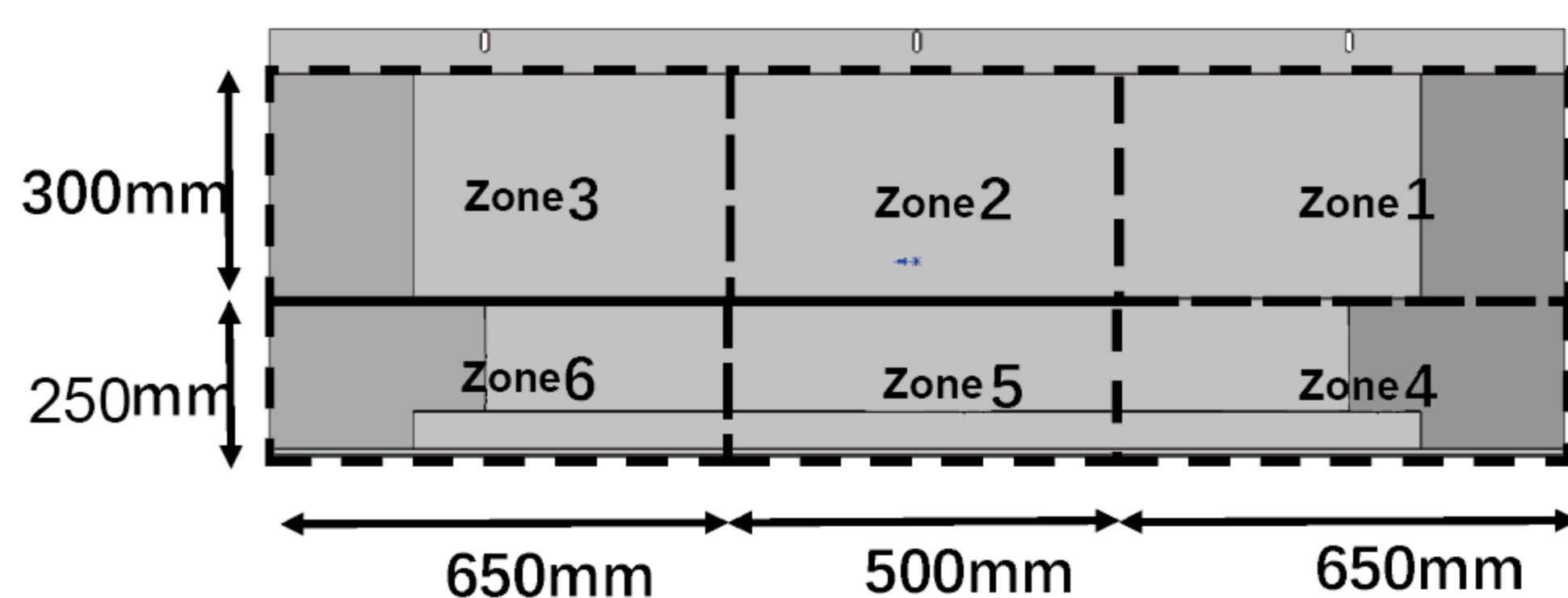
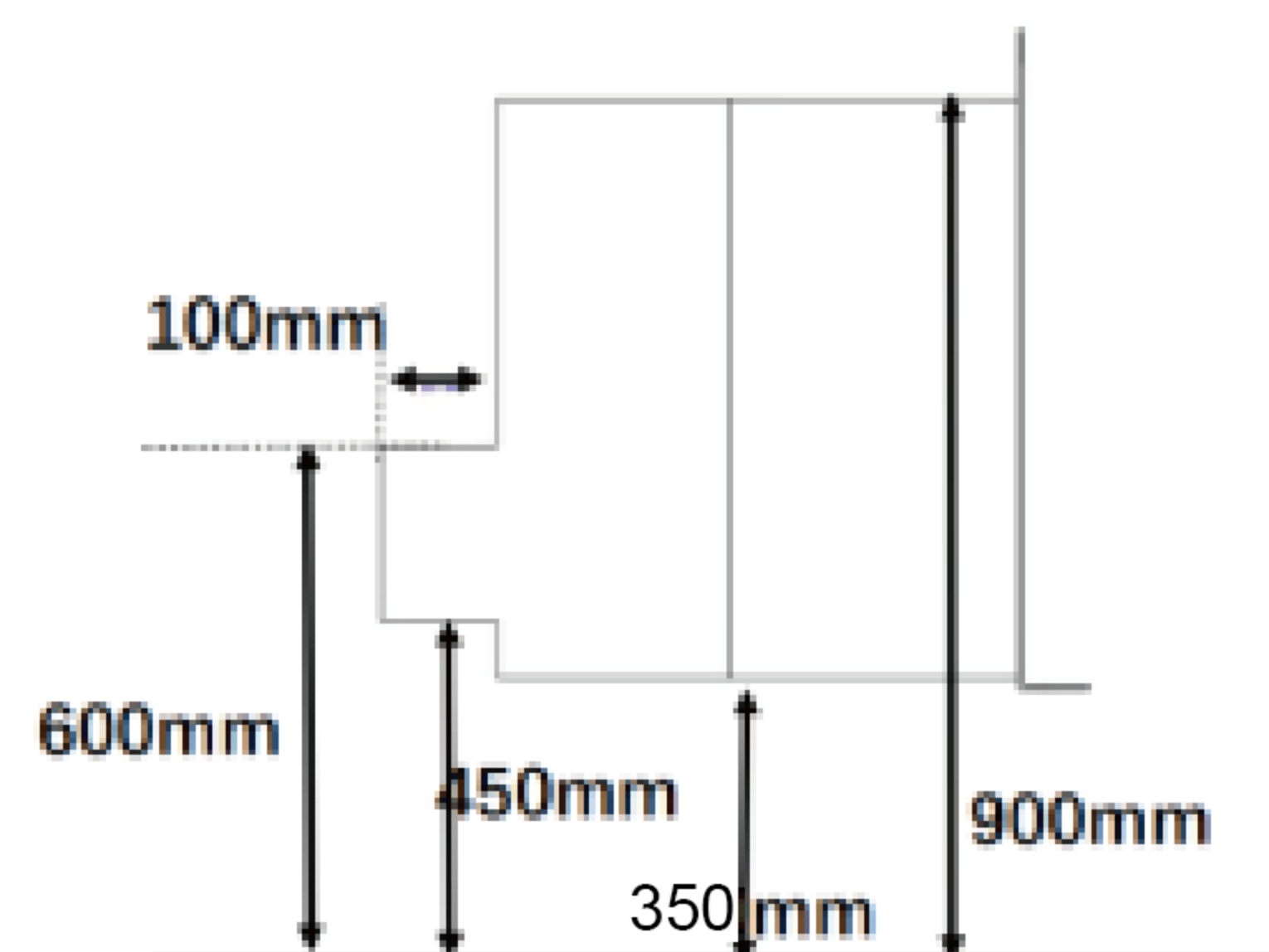
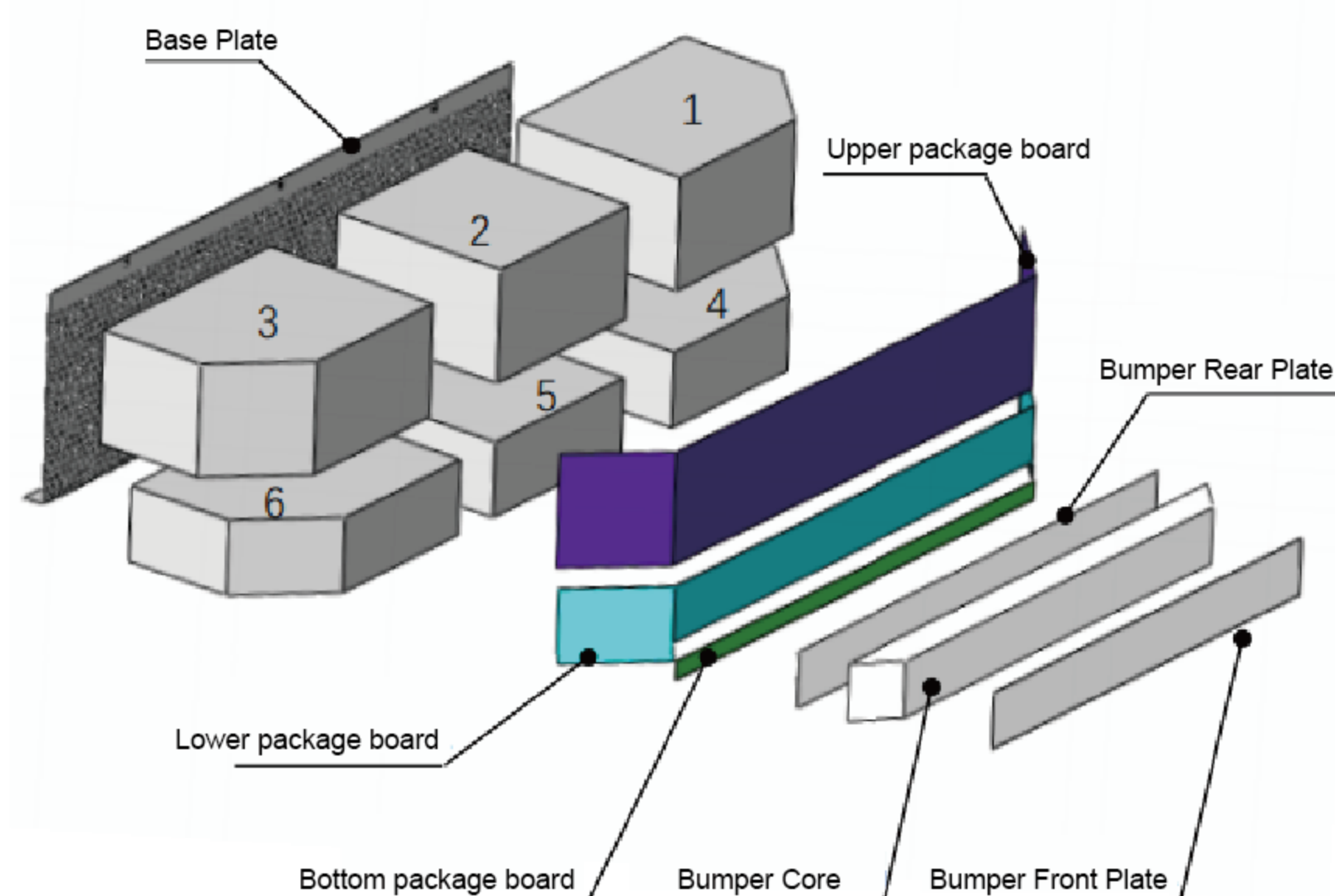
Mobile Deformable Barrier For Side Impact in China



Describe

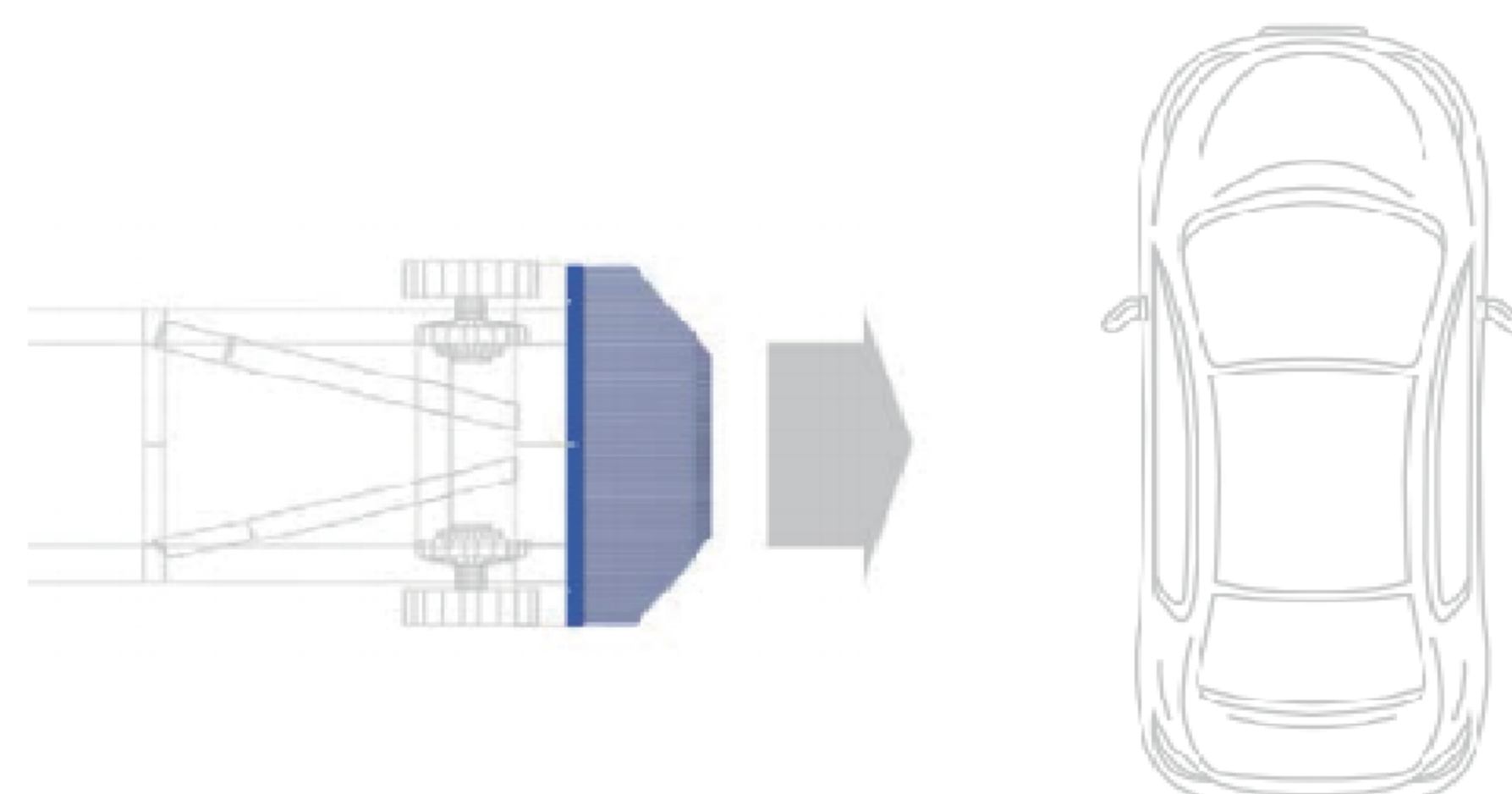
Through the investigation of traffic accidents over the years, the China Automotive Technology & Research Center (CATARC) found that the proportion of SUVs in traffic accidents increased year by year. Through the comprehensive analysis of the front part dimensions of 43 cars and the front part stiffness curves of 25 cars in the accident, the final model of the barrier was finally determined.

CANSINGA is the only company that has participated in the whole development process and is responsible for the realization of the mechanical properties of the barrier and the sample production. Now, it has completed the product development and supply.



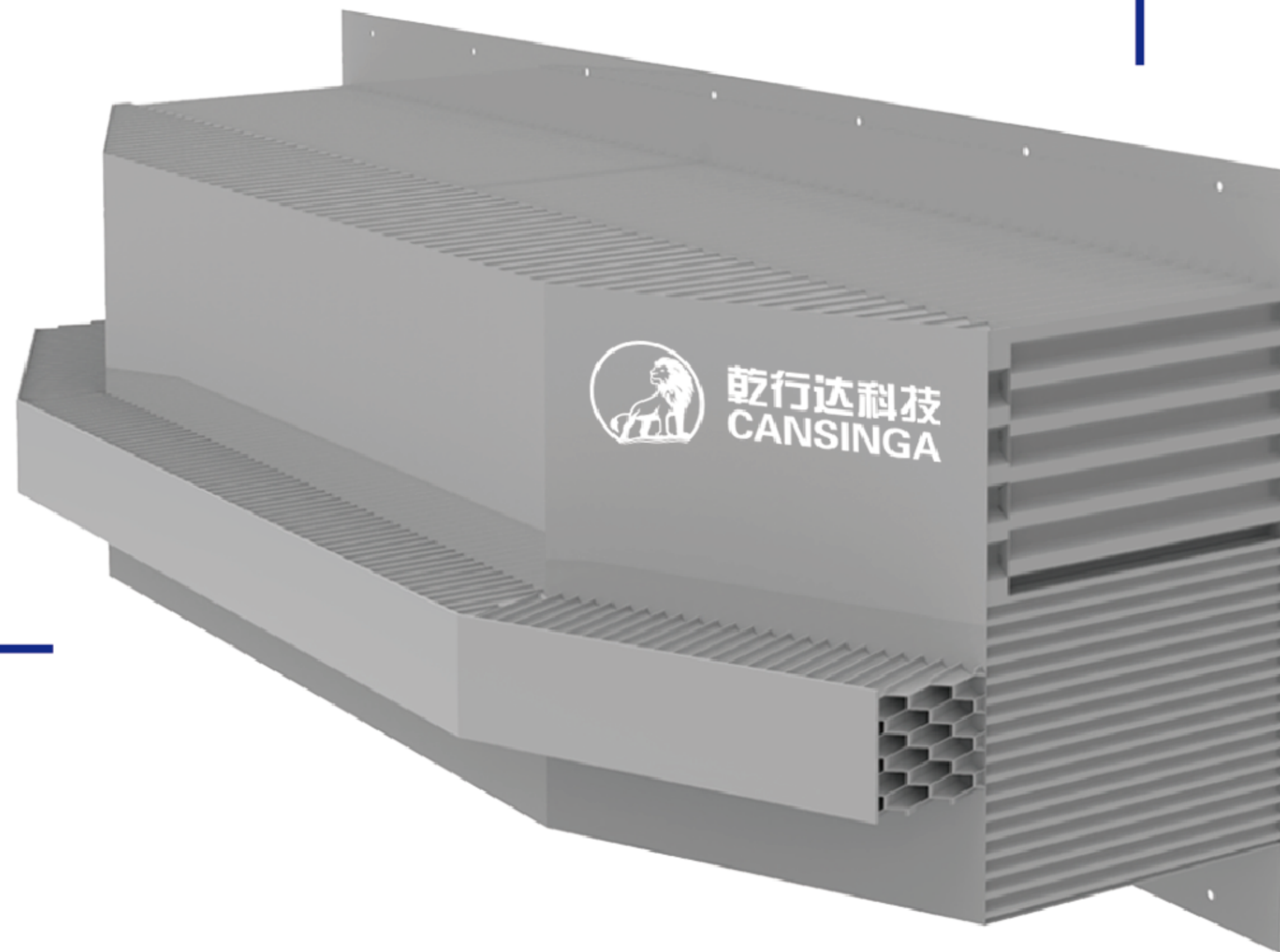
Collision Instructions

Overall weight of sled test vehicle: 1700 kg
Height of bumper unit to the ground: 450 mm
Impact angle: 90 °



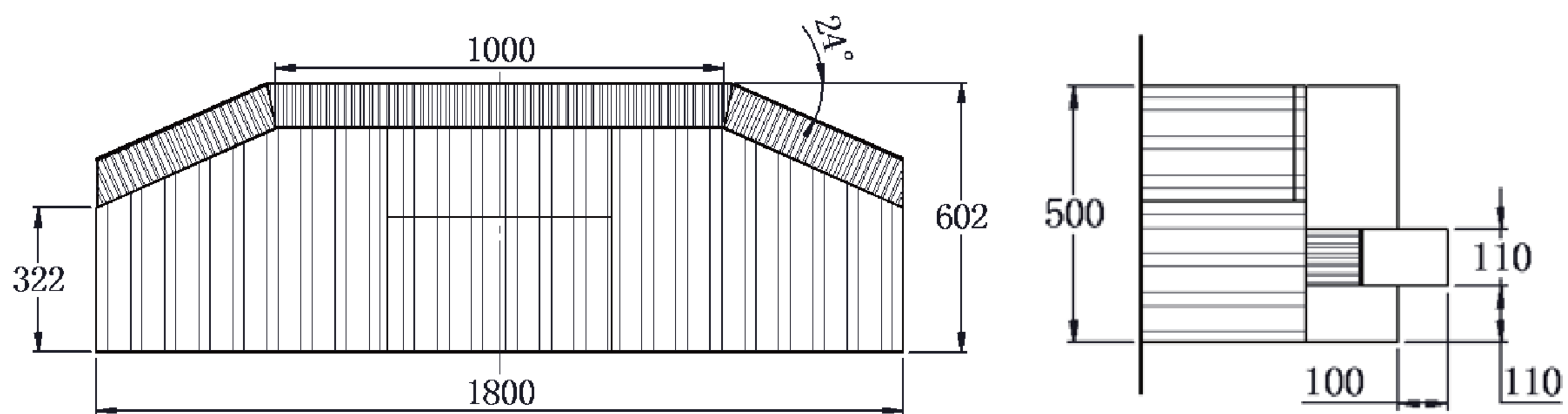
AC-MDB

Advanced Chinese Mobile Deformable Barrier



Describe

A brand new domestic barrier with independent intellectual property rights, newly developed in accordance with the China Insurance Automobile Safety Index (C-IASI) Regulations (2023 Edition), aims to provide a measurement tool with sufficient accuracy to ensure repeatable and highly relevant results under similar test conditions, and can reflect the safety performance of a motor vehicle or a motor vehicle component when people are aboard.



Certificate And Test Data Are Attached With The Delivery Box

A custom color and form of the paint for unique application is available.

Single packaging carton has the size of 1880 mm * 780 mm * 670 mm and the weight of 30 kg.

CANSINGA is the only company that has participated in the whole development process and is responsible for the realization of the mechanical properties of the barrier and the sample production. Now, it has completed the product development and supply.

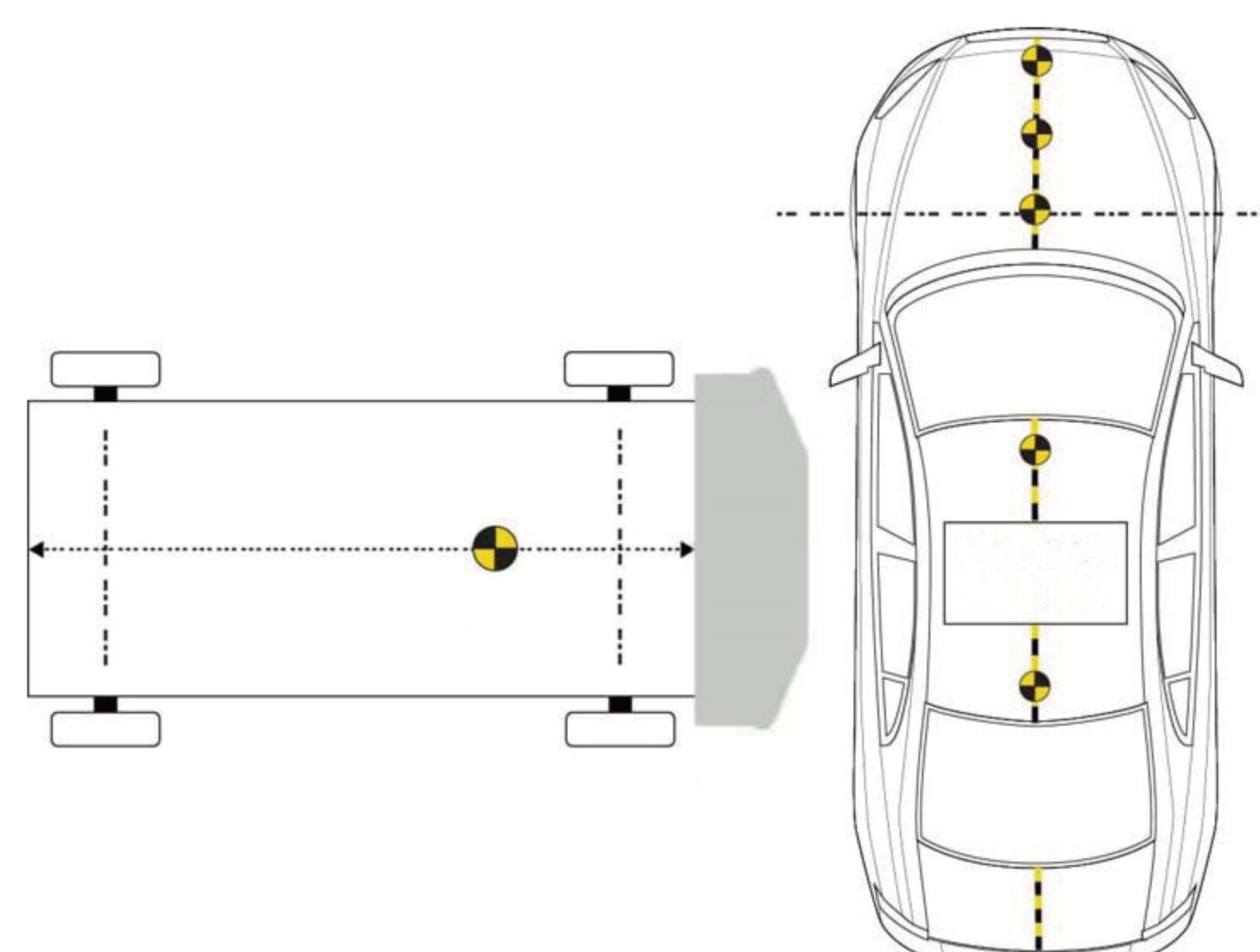
Collision Instructions

Unladen weight: 1658 kg

Impact speed: 50 km/h

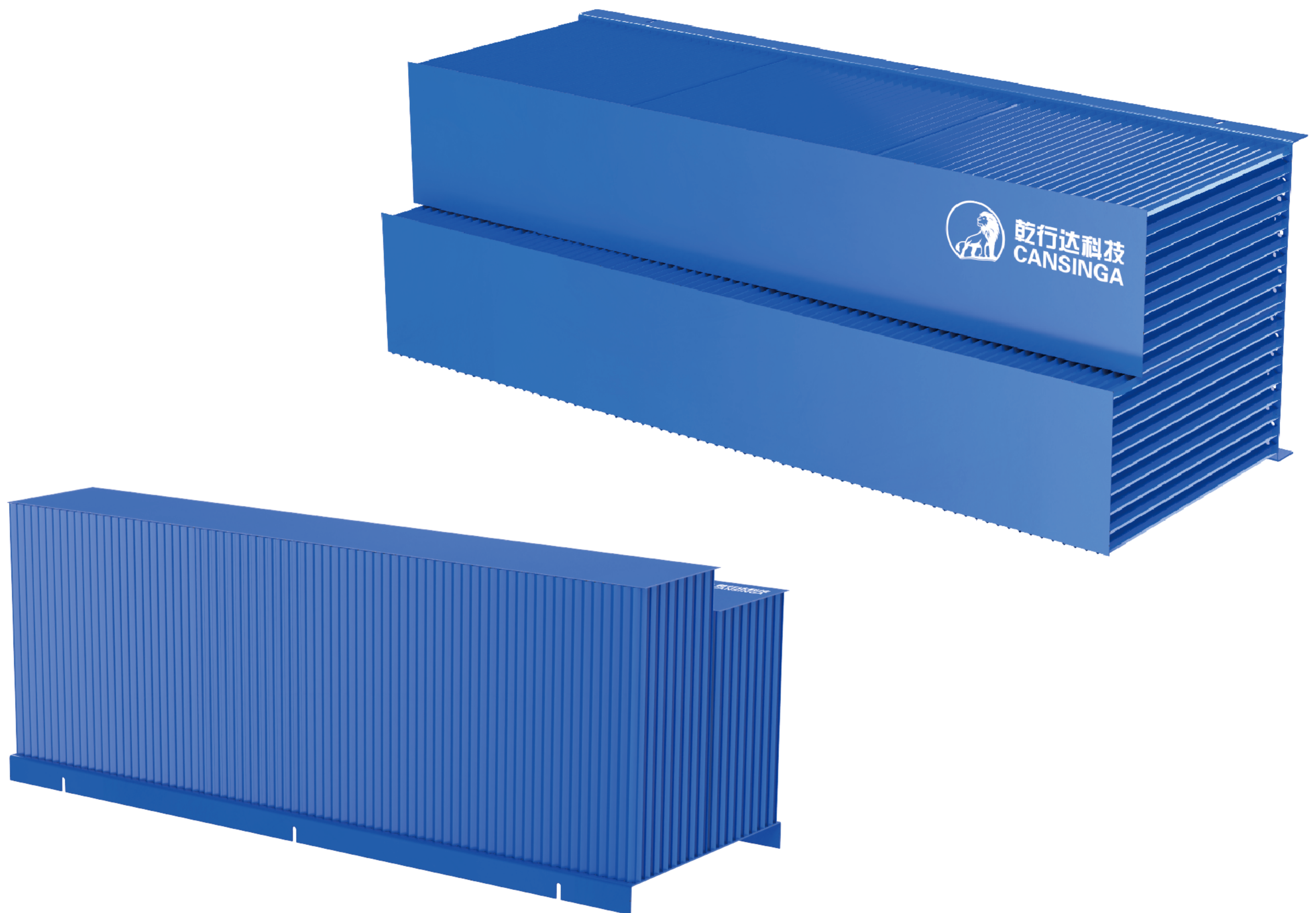
Impact angle: 90 °

Height of the main part to the ground: 400 mm



MDB

100% Side Impact Deformable Barrier



Describe

The side mobile deformable barrier (MDB) is one of several certified honeycomb barriers, which is used for comprehensive crash test in the field of automobile safety. The performance of this product aims to provide a measuring tool with sufficient accuracy to ensure repeated and relevant results to reflect the protection of motor vehicles against passengers.

Technical Norm

United Nations ECE R95 Amendment3

European Directive 96/27/EC

GB/T20071-2006

Structure

Lower group of honeycomb cores (Section 1, 2, 3)

Upper group of honeycomb cores (Section 4, 5, 6)

Aluminum Base Plate

Face Plate

Usability

Certificate and test data are attached with the delivery box

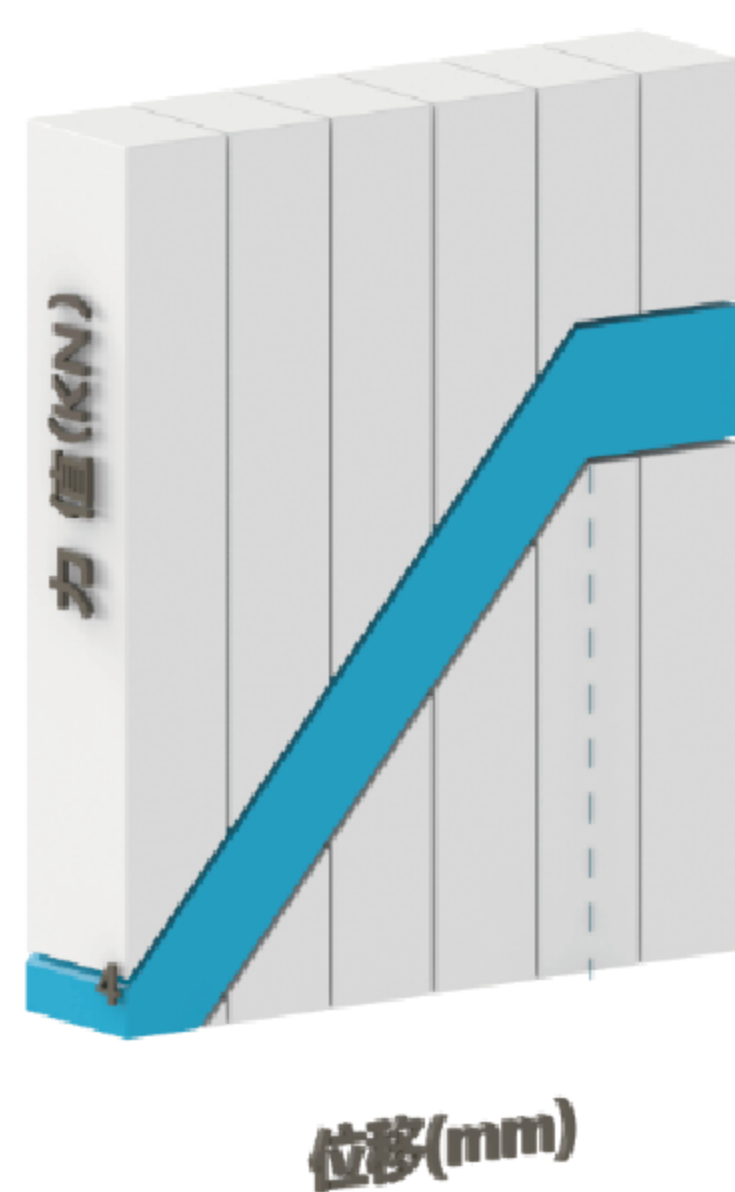
A custom color and form of the paint for unique application is available.

Single packaging carton has the size of 1600 mm

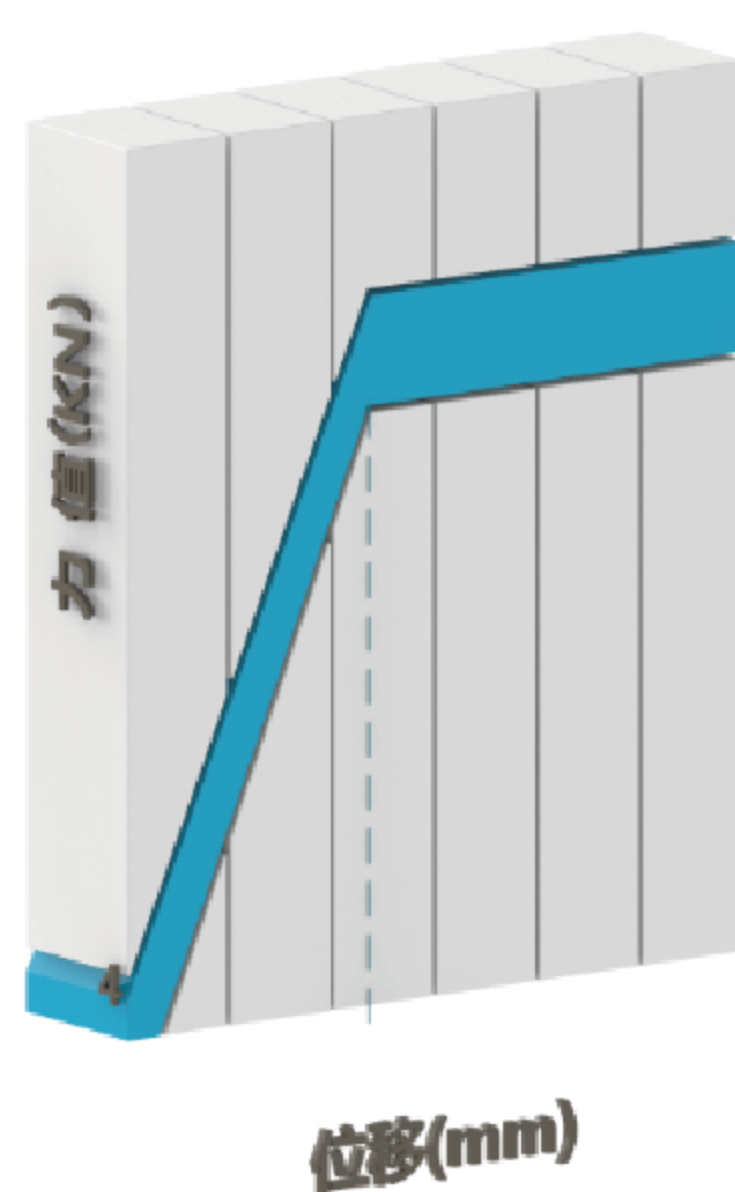
* 560 mm * 600 mm and the weight of 30 kg.

Crush Properties (static state)

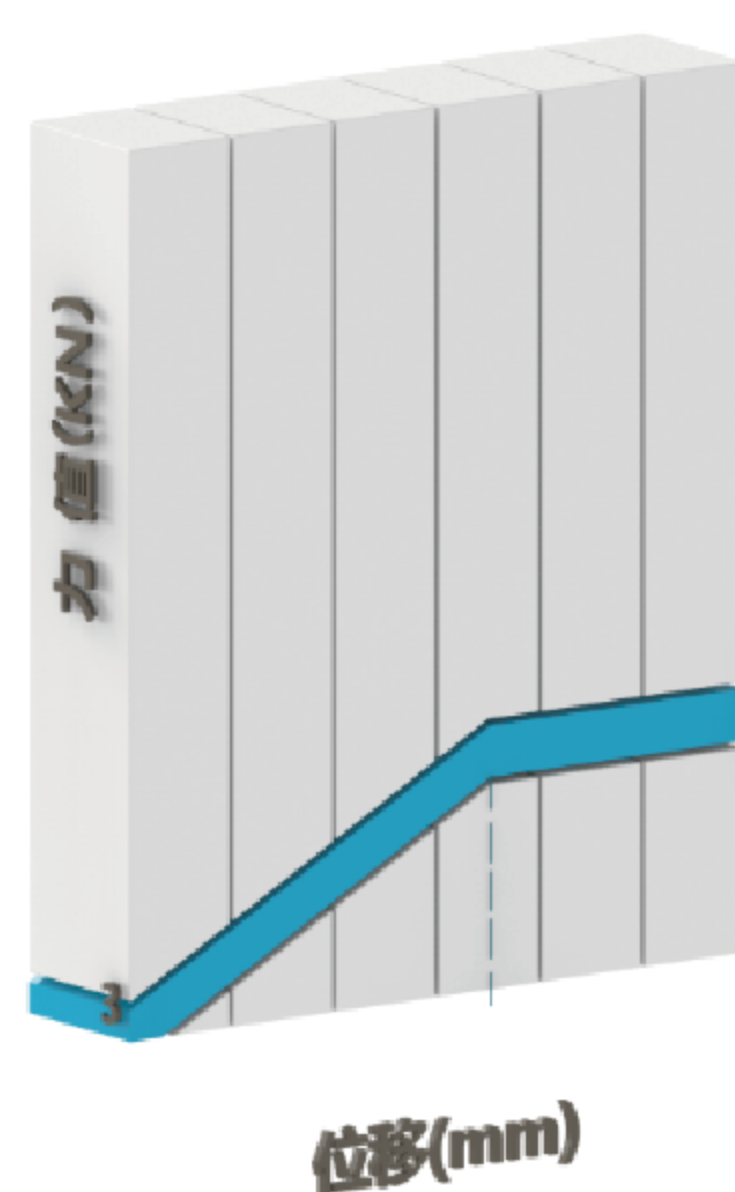
Section 1&3



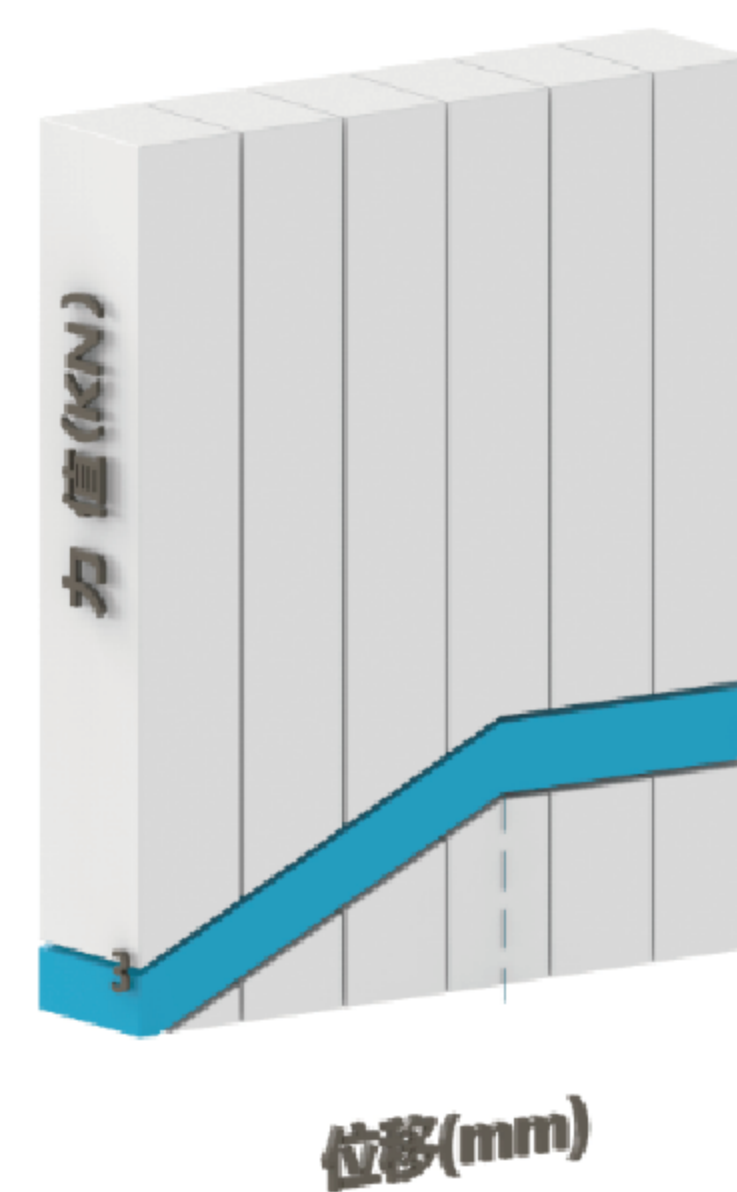
Section 2



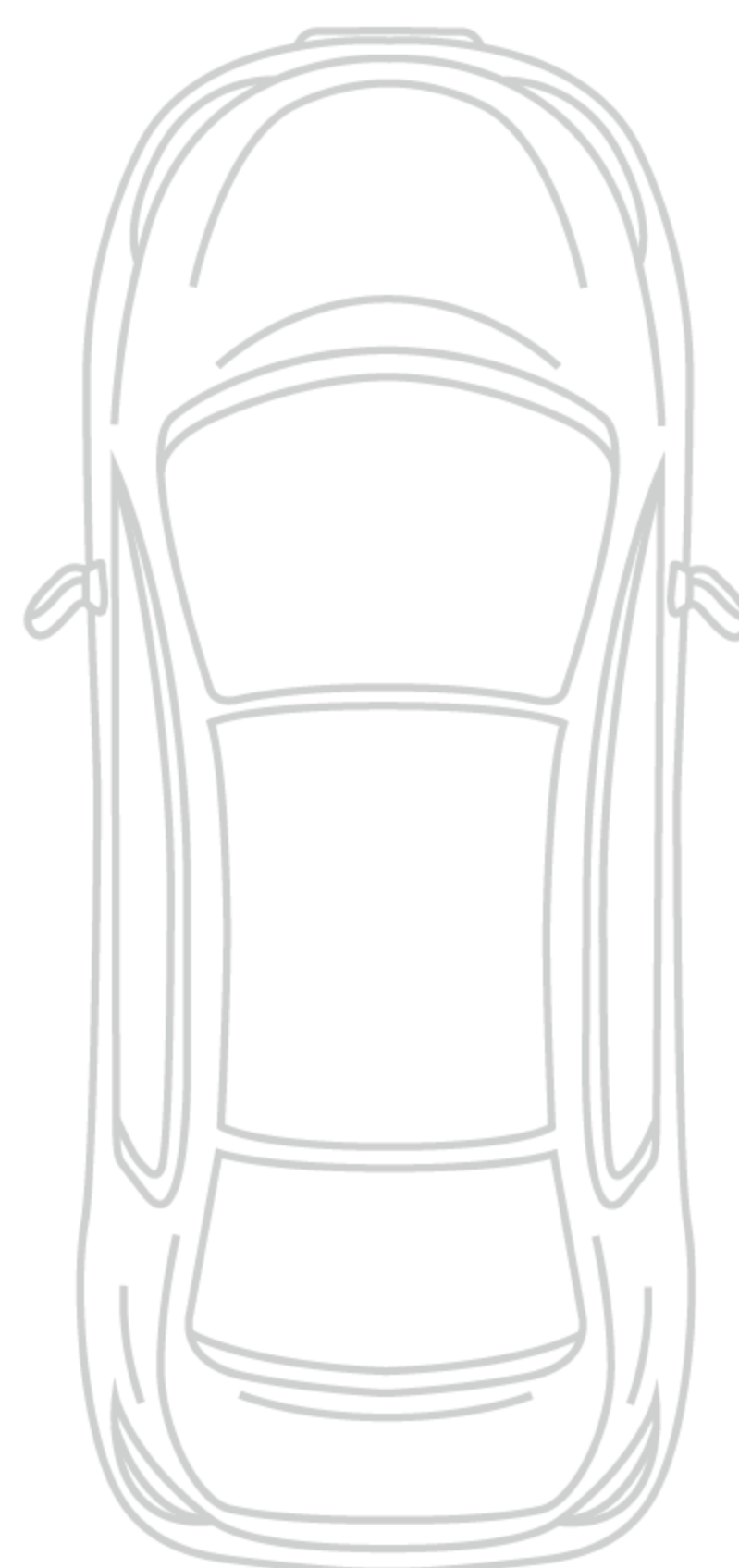
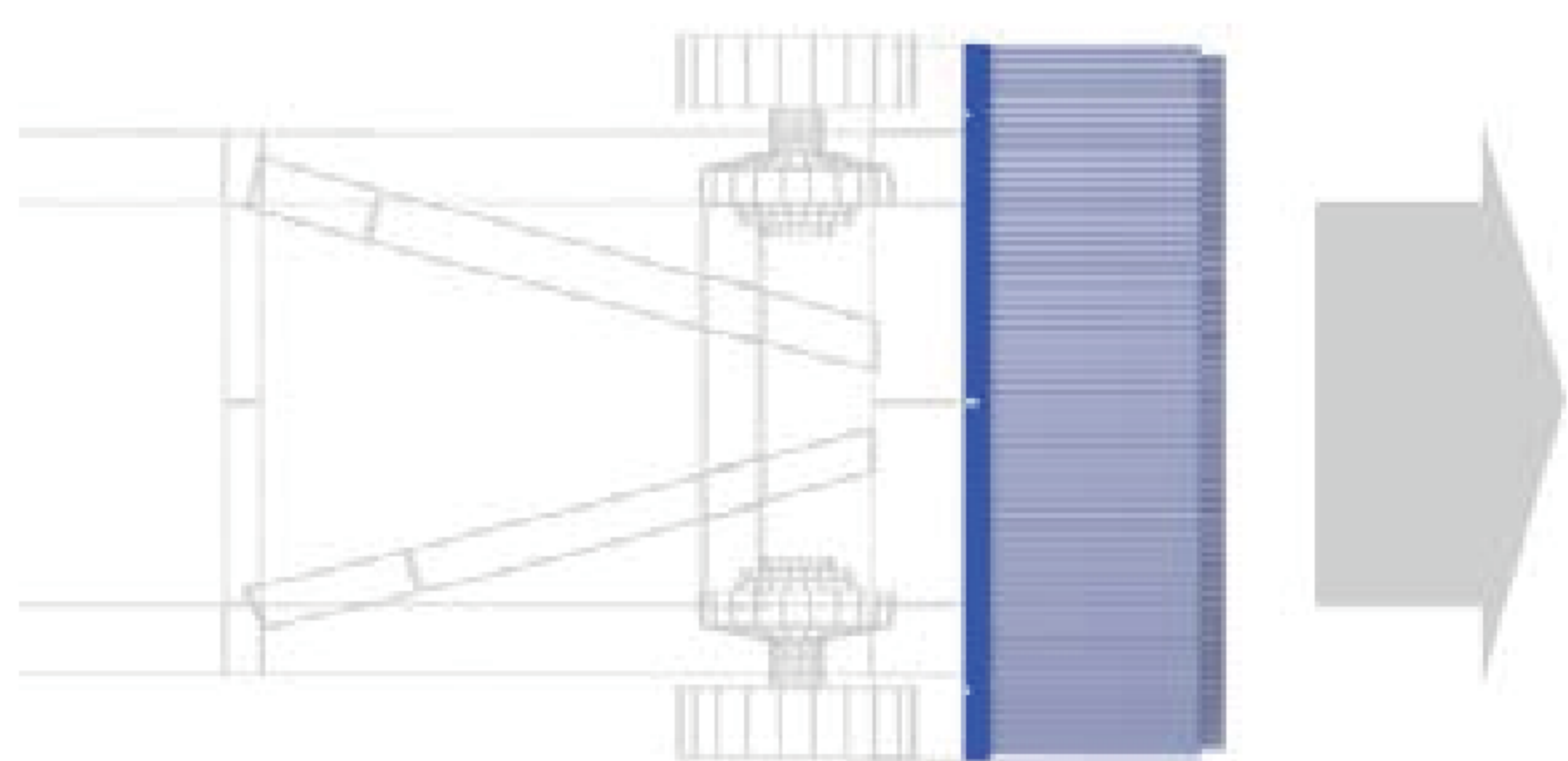
Section 4



Section 5&6

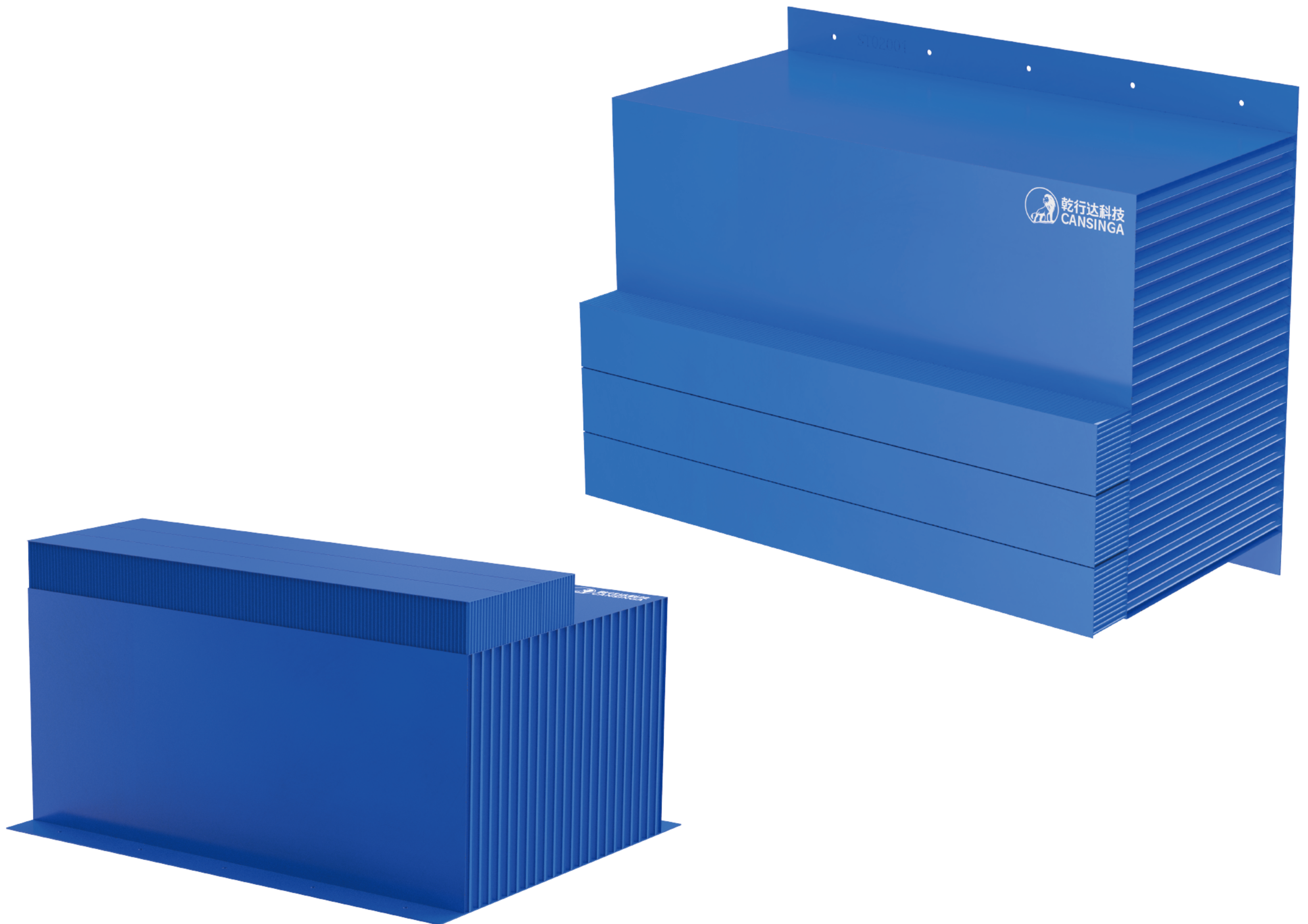


Collision Instructions



ODB

Frontal 40% Offset Deformable Barrier



Describe

The front offset deformable barrier (ODB) is used in the field of vehicle crash test safety. Barrier performance is intended to provide a measurement tool with sufficient accuracy to ensure repeatability and reflect the protective performance of the motor vehicle.

Technical norm

NHTSA Lab Test Procedure Dynamic Side Impact Protection TP214D AppendixC

European Directive 96/79/EC

United Nations ECE R94

GB/T20071-2006

Structure

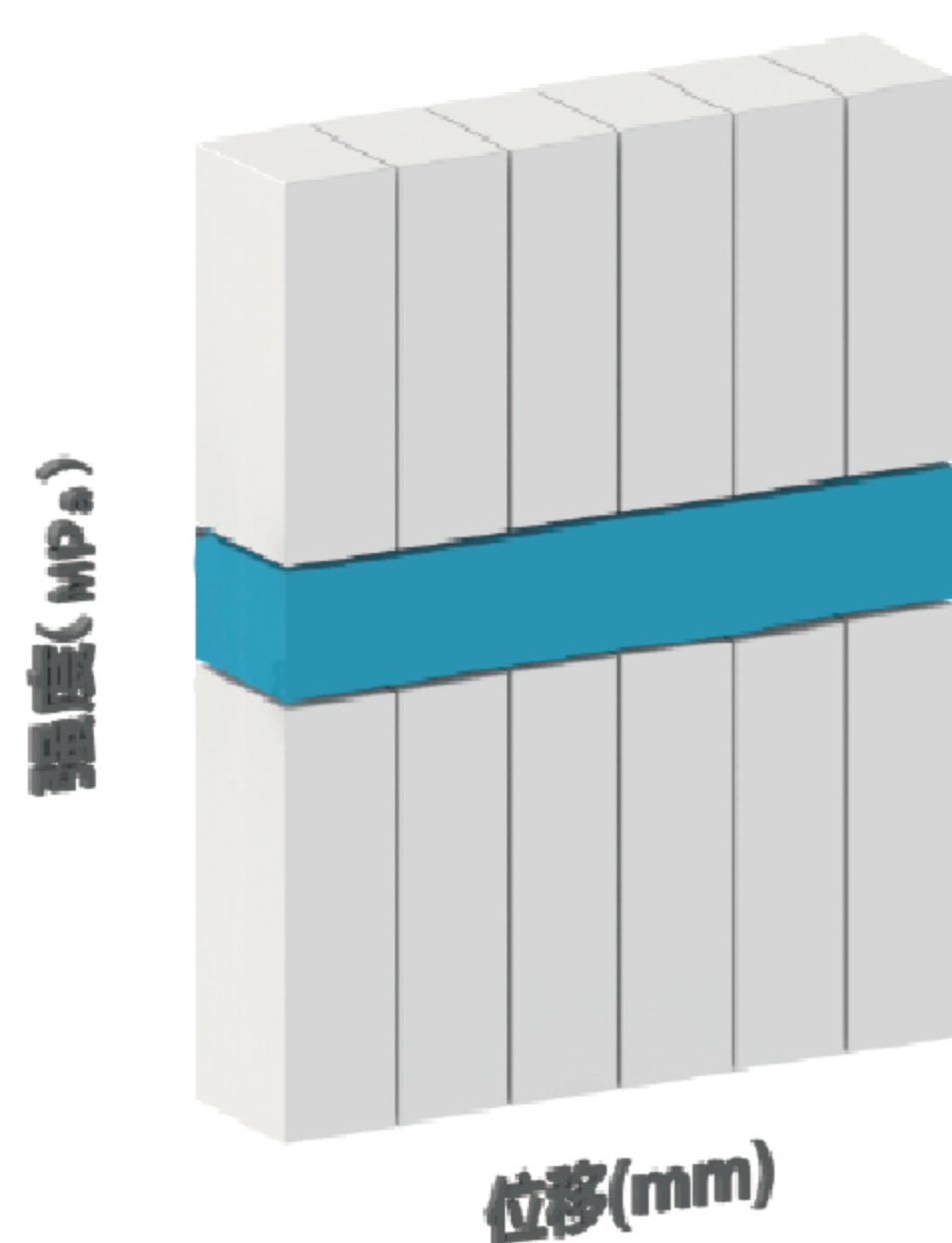
Main Honeycomb Core
Bumper Core
Base Plate
Bumper Cladding
Bumper Unit Plate

Usability

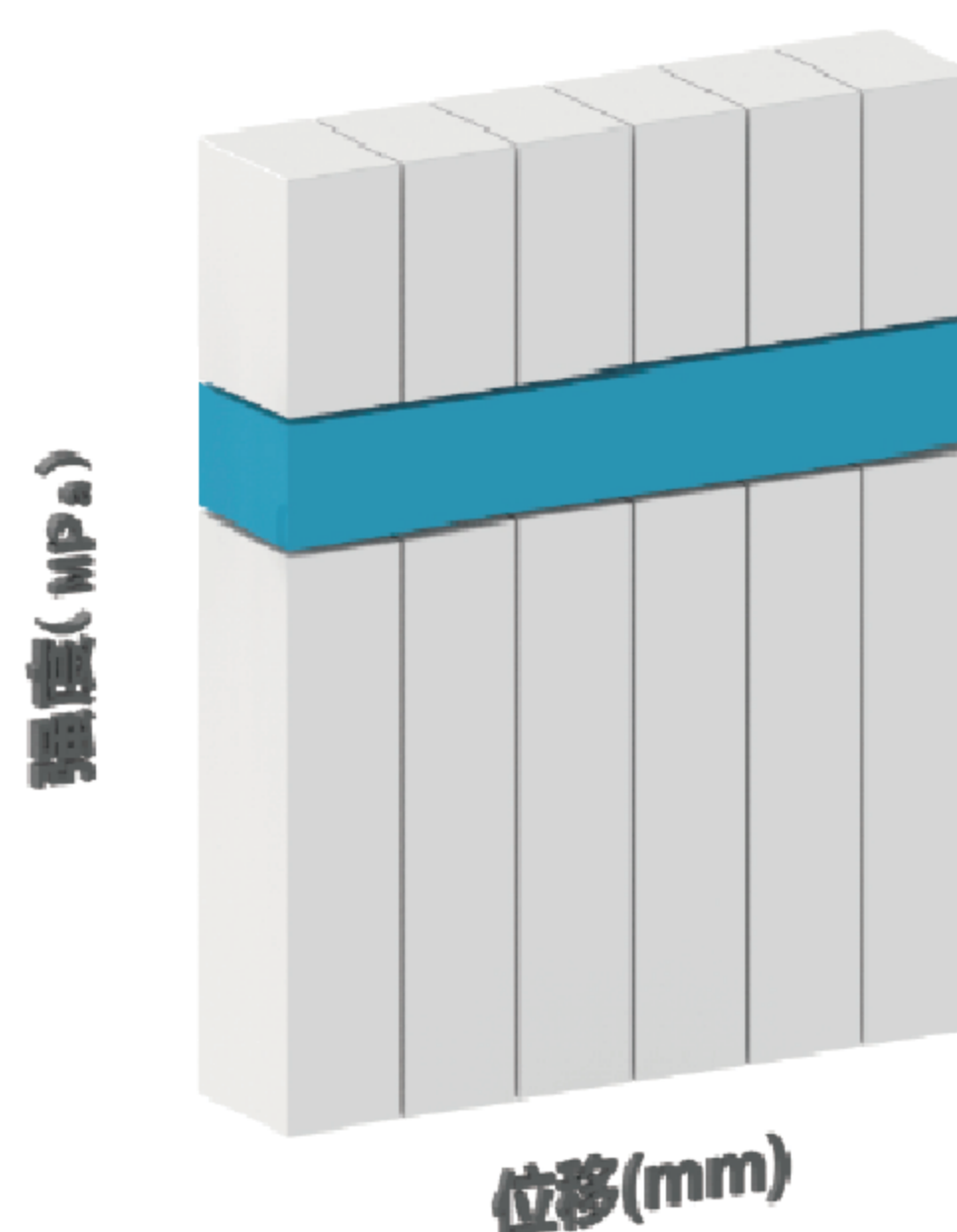
Certificate and test data are attached with the delivery box
A custom color and form of the paint for unique application is available.
Single packaging carton has the size of 1075 mm * 825 mm * 580 mm and the weight of 25 kg.

Crush Properties (static state)

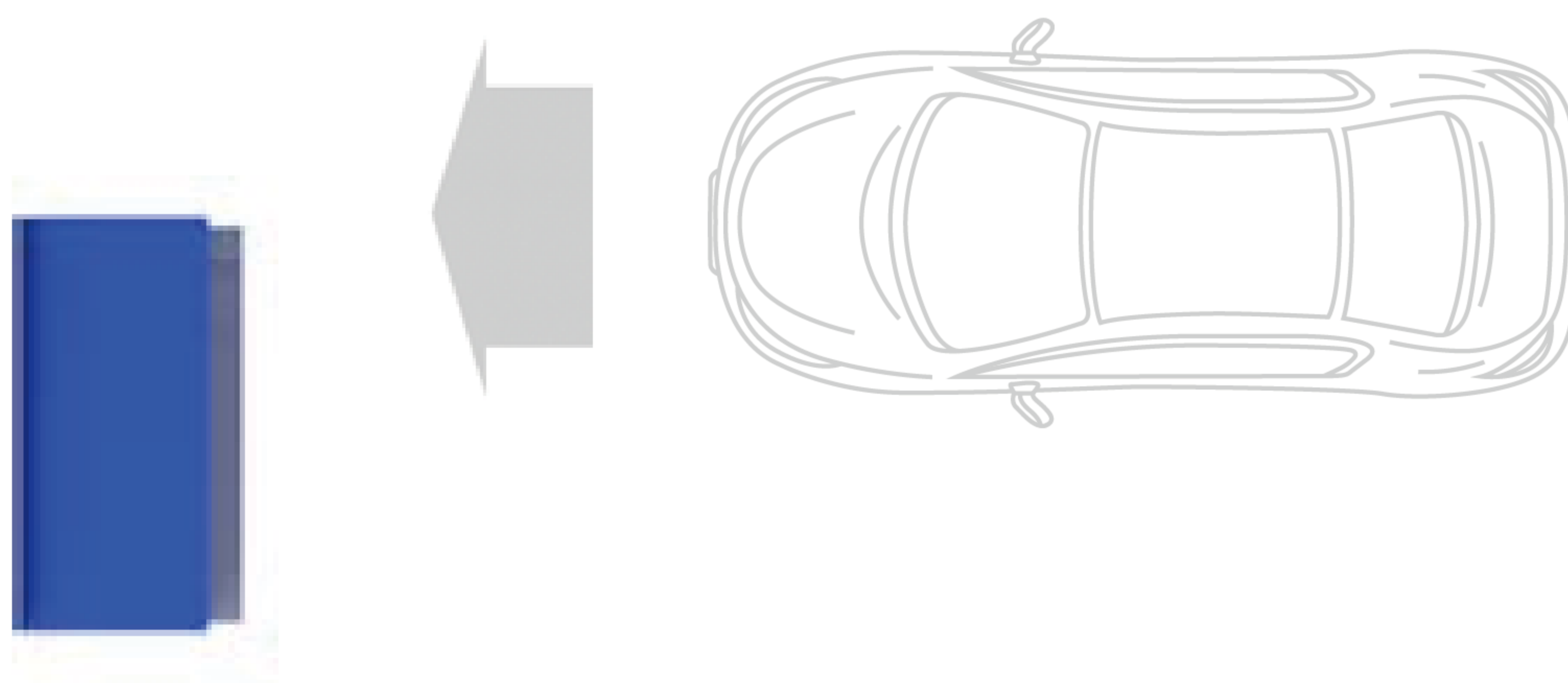
Unit Of Insurance



Main Honeycomb Core

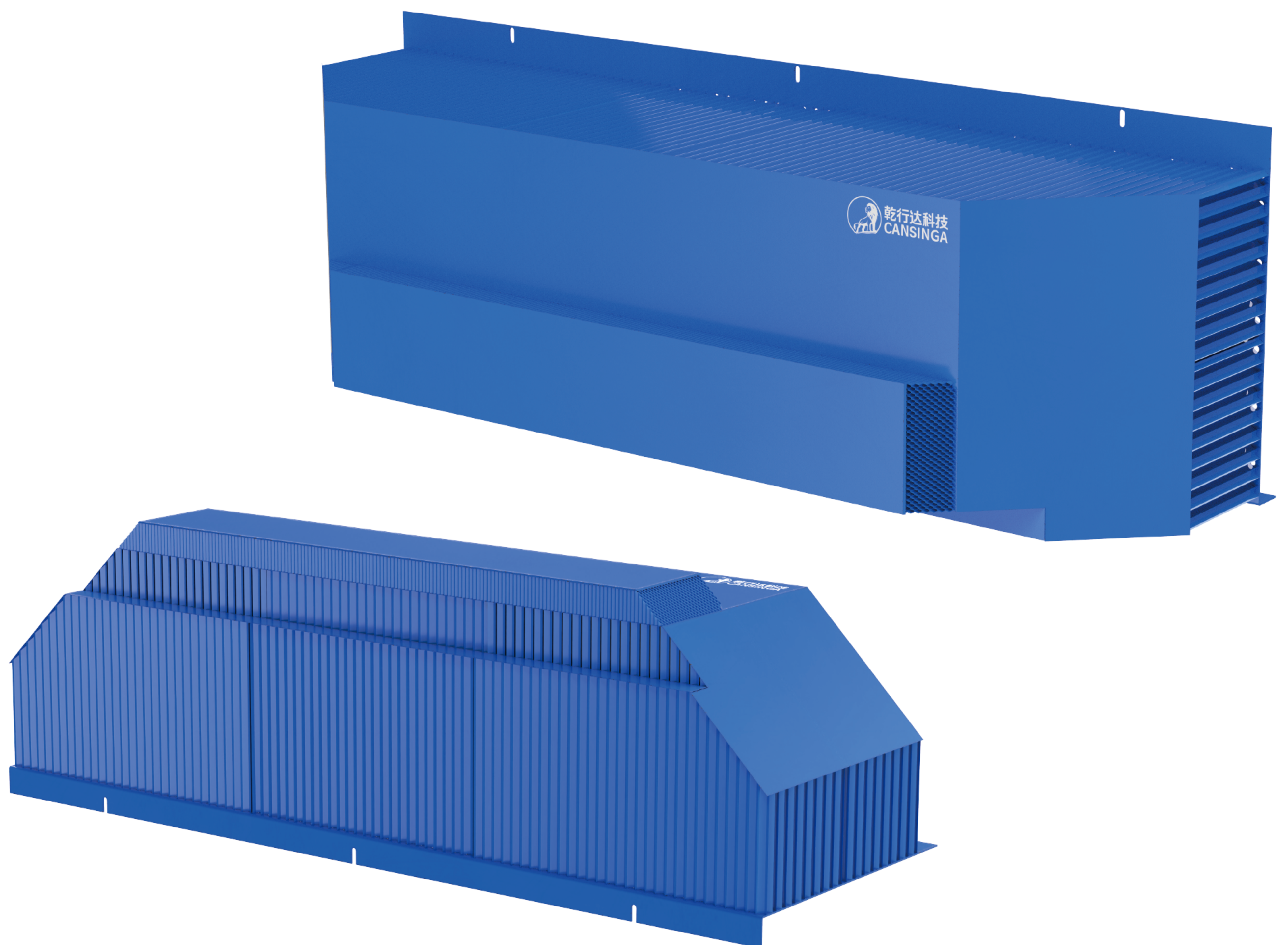


Collision Instructions



AE-MDB

Advanced European Mobile Progressive Deformable Barrier



Describe

AE-MDB is one of several certified honeycomb barrier for crash test in the field of automobile safety. This product is designed to provide a measuring tool with sufficient accuracy and to ensure repeatability and motor vehicle protection for passengers.

Technical norm

Euro NCAP TB014 v1.0

Structure

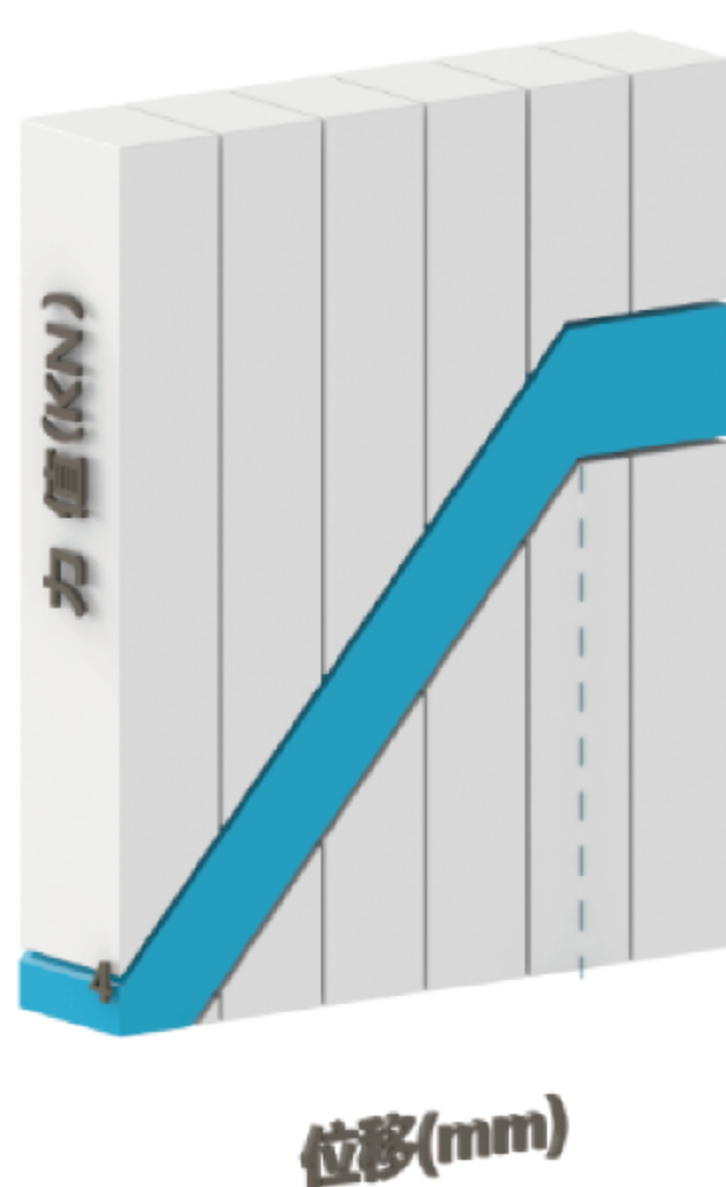
Main Honeycomb Cores (Section A-F)
Bumper Honeycomb Core (one Section)
Base Plate
Face Plate
Bumper Plate

Usability

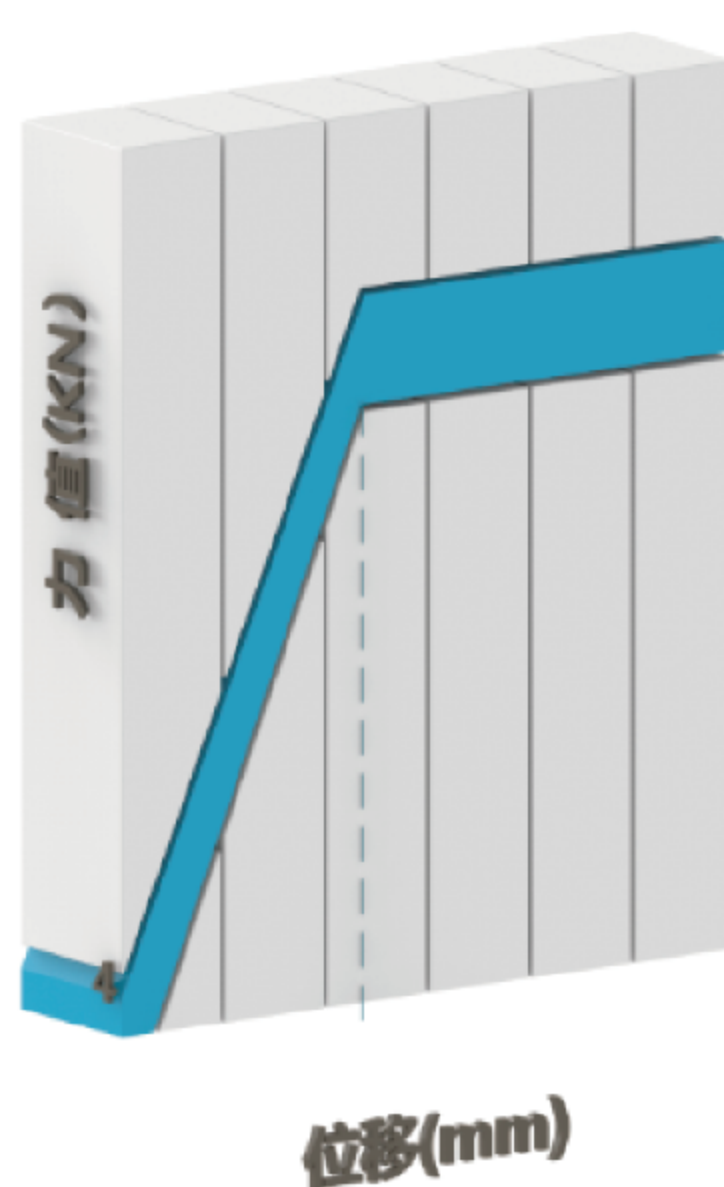
Certificate and test data are attached with the delivery box
A custom color and form of the paint for unique application is available.
Single packaging carton has the size of 1825 mm * 626 mm * 650 mm and the weight of 33 kg.

Crush Properties (static state)

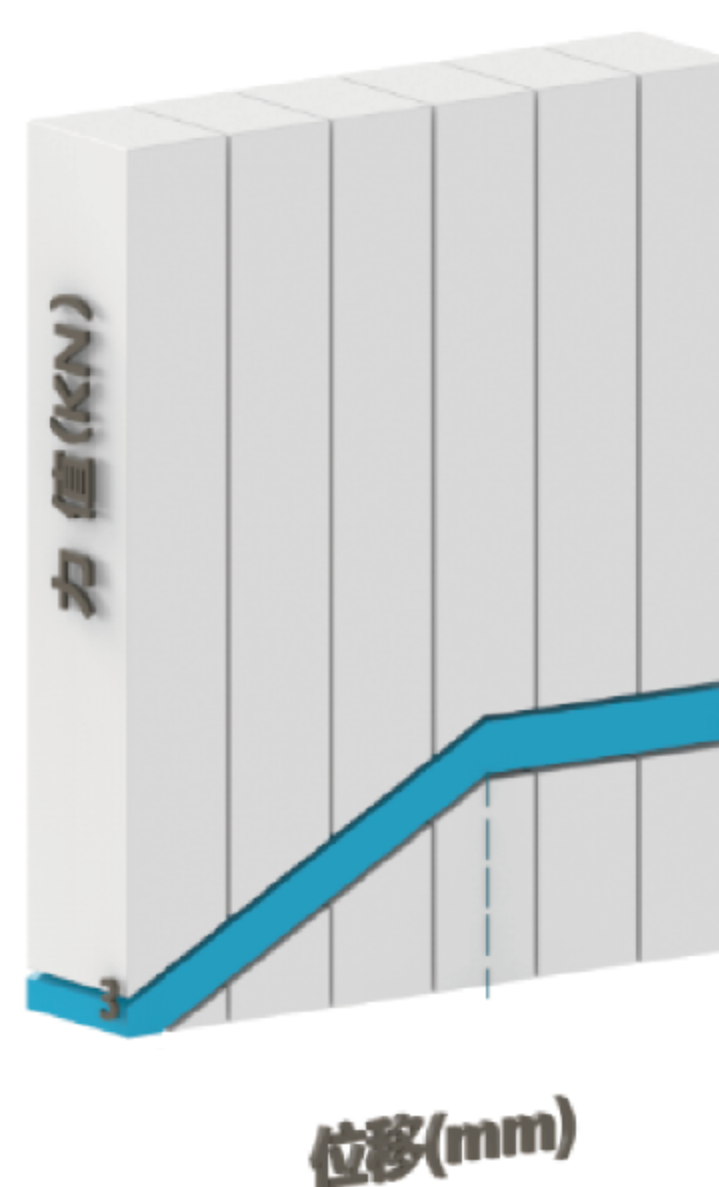
Section A&C



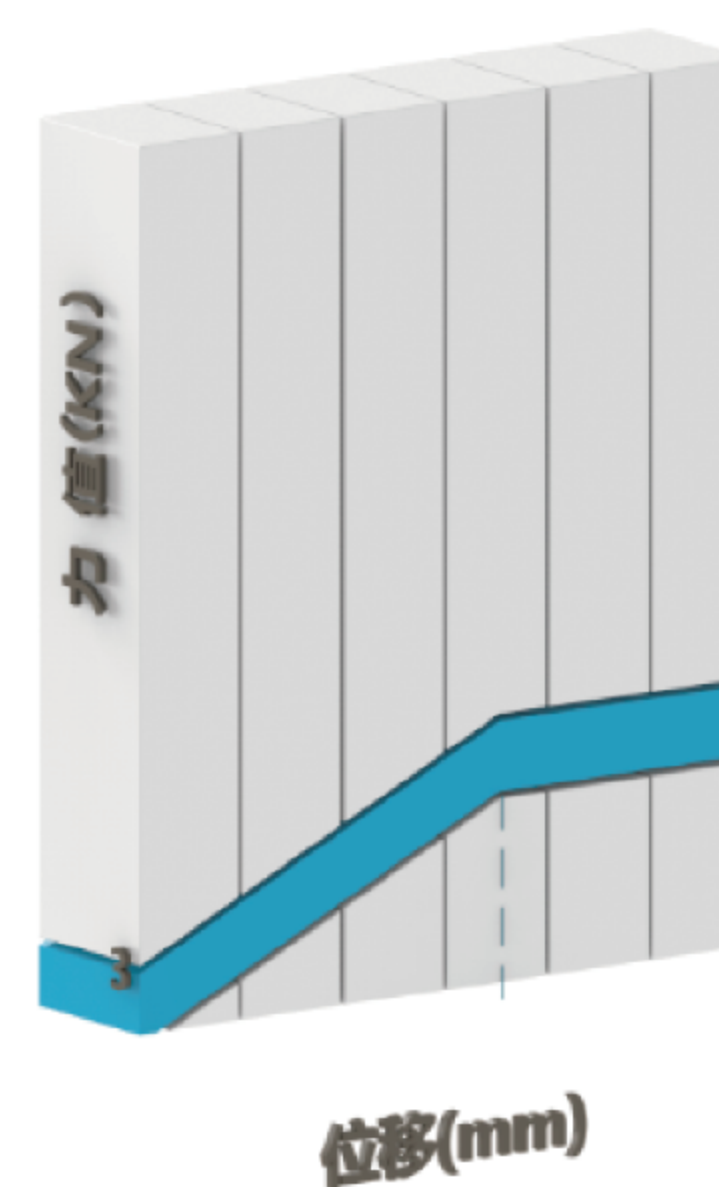
Section B



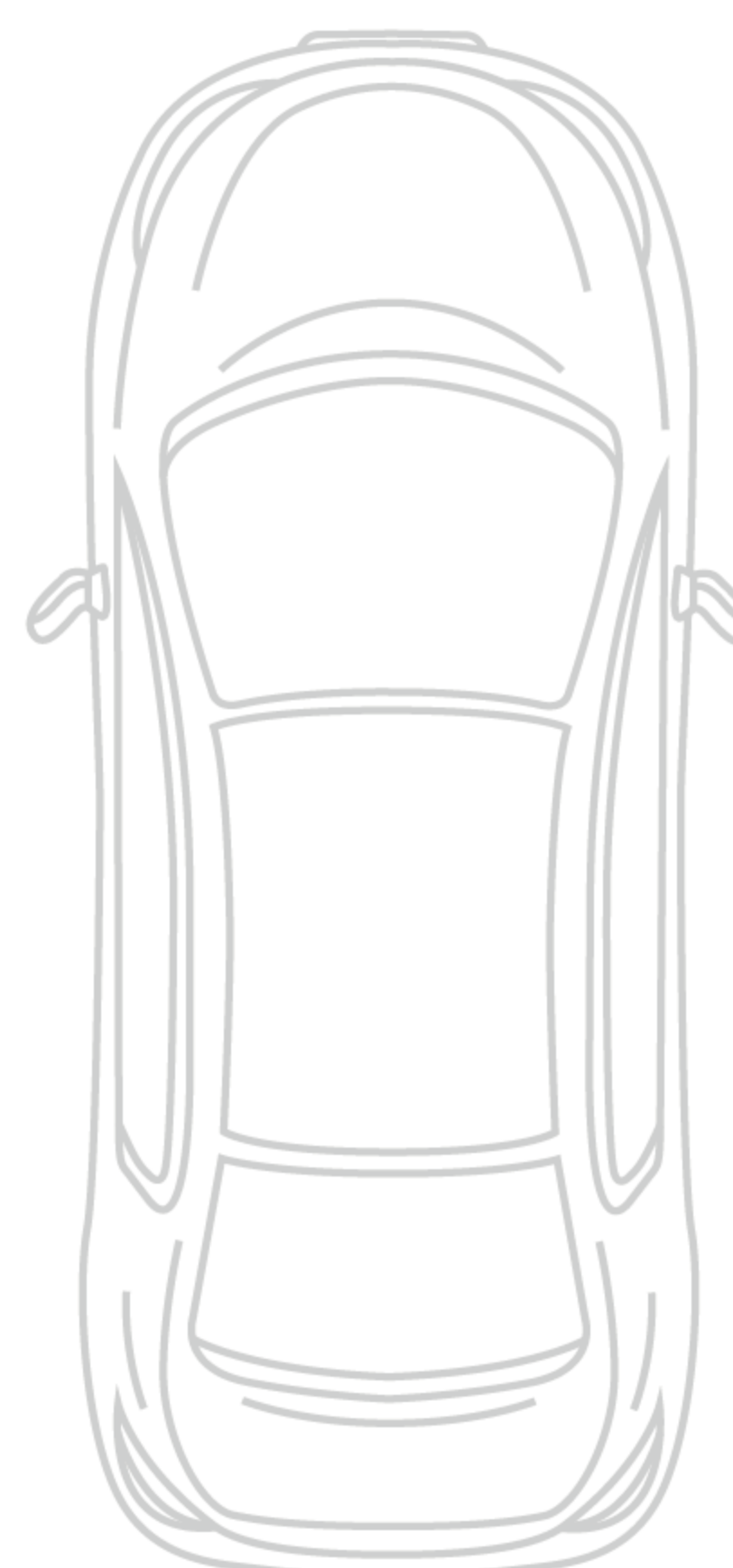
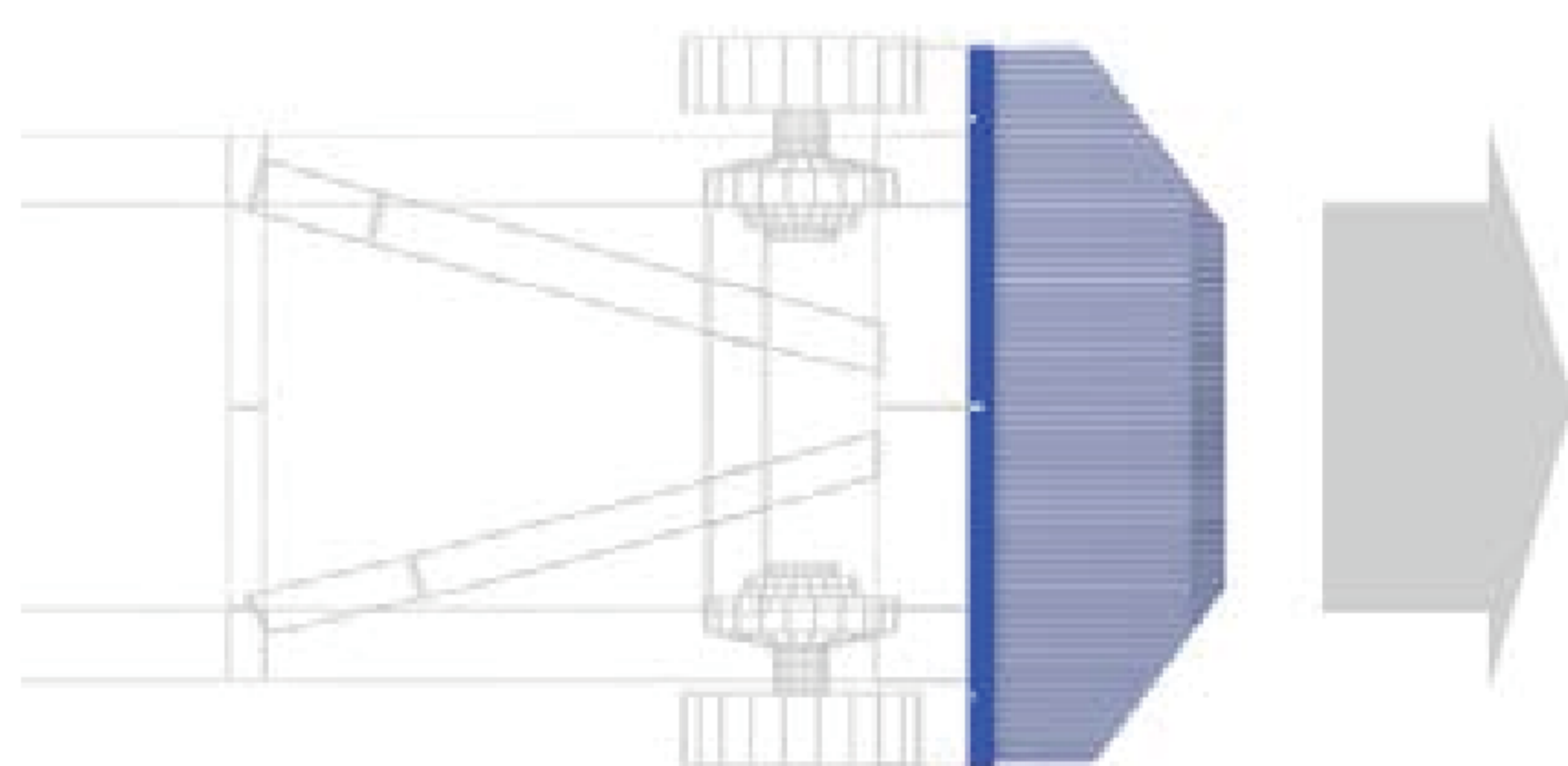
Section D&F



Section E

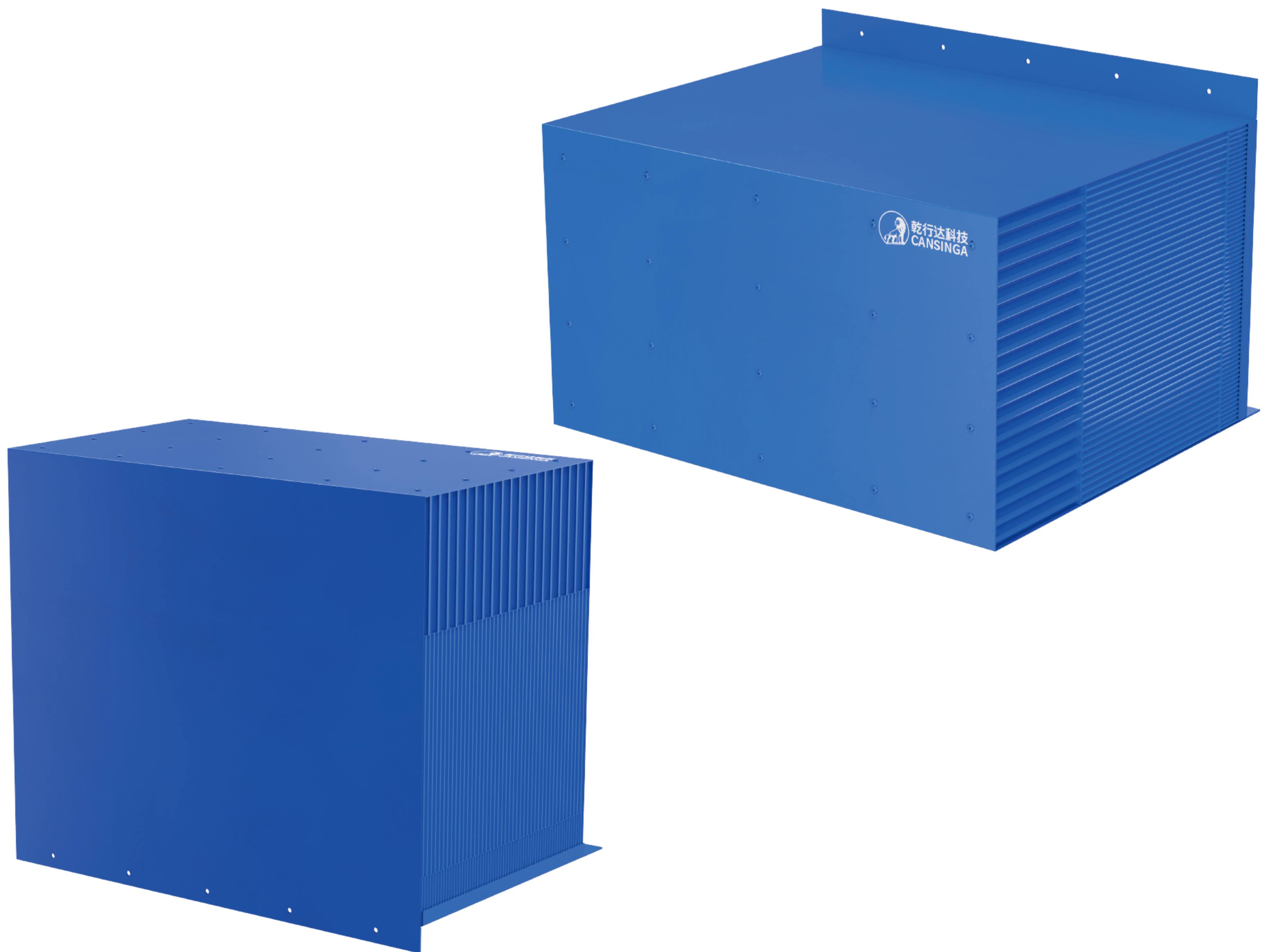


Collision Instructions



MPDB

Mobile Progressive Deformable Barrier



Describe

Based on honeycomb aluminum technology, MPDB is used by automobile manufacturers and laboratories around the world to evaluate occupant protection in the frontal offset crash test procedure.

Technical norm

Euro-NCAP v1.2 TB022

Structure

Honeycomb Cores (Section A, B, C)

Middle Plate

Contact Plate

Base Plate

Usability

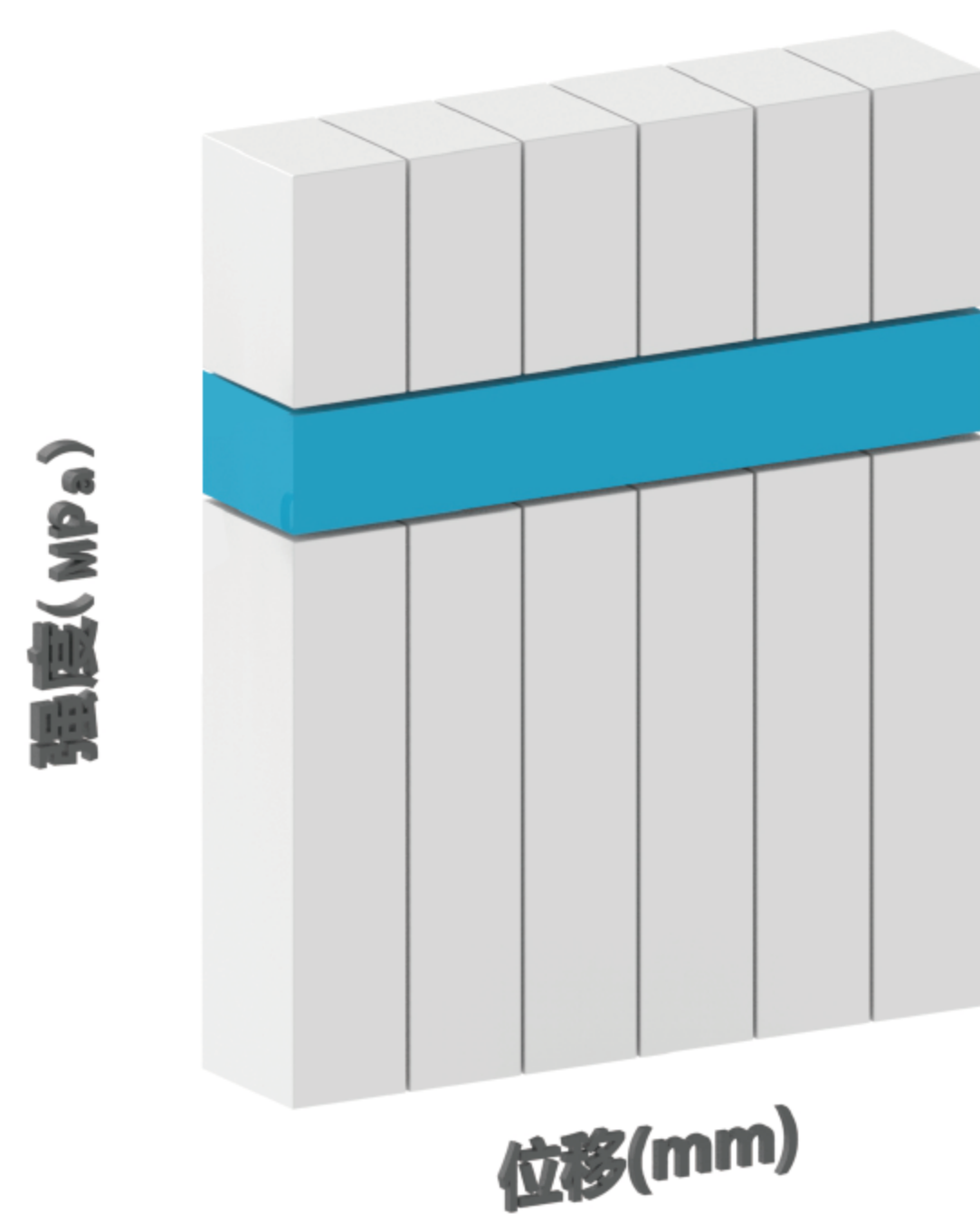
Certificate and test data are attached with the delivery box

A custom color and form of the paint for unique application is available.

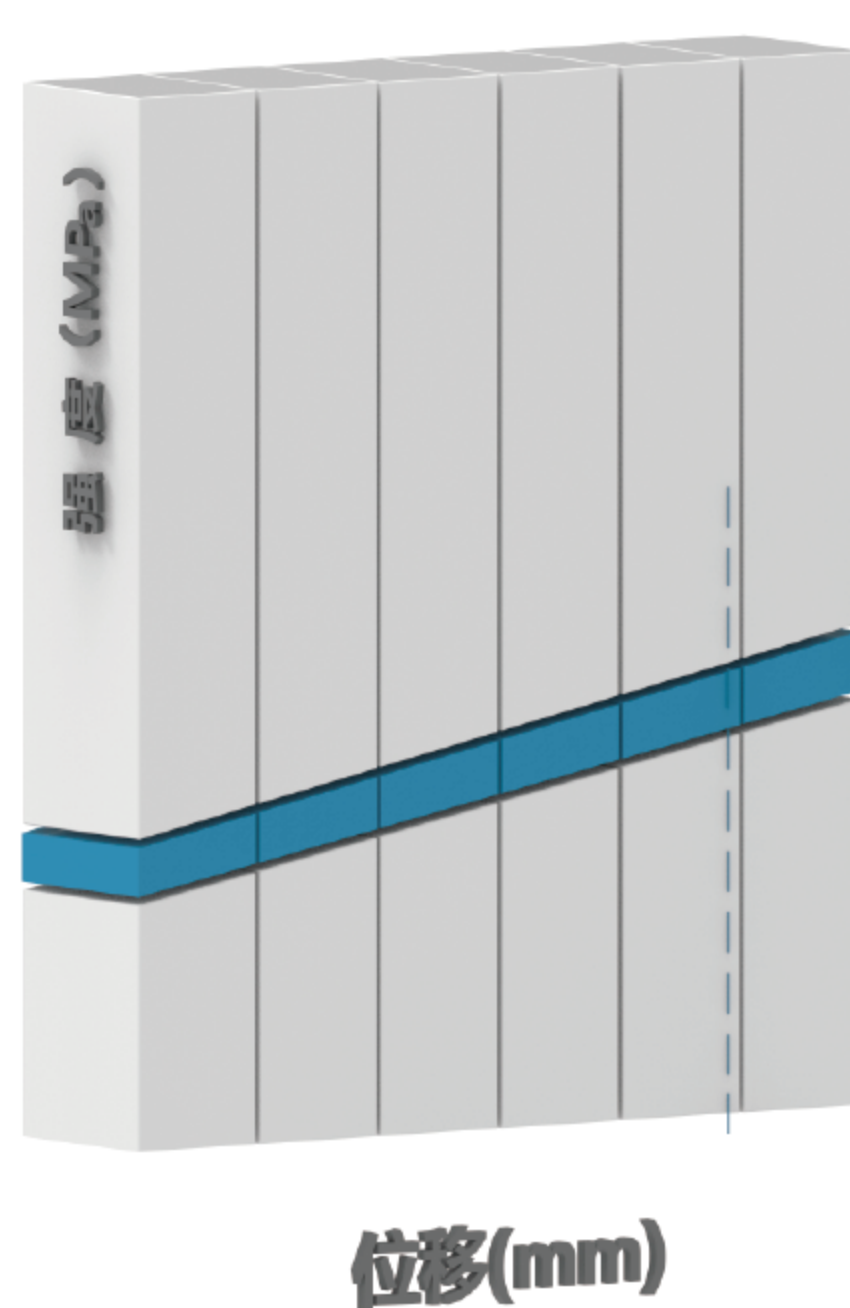
Single packaging carton has the size of 1075 mm * 650 mm * 900 mm and the weight of 33 kg.

Crush Properties (static state)

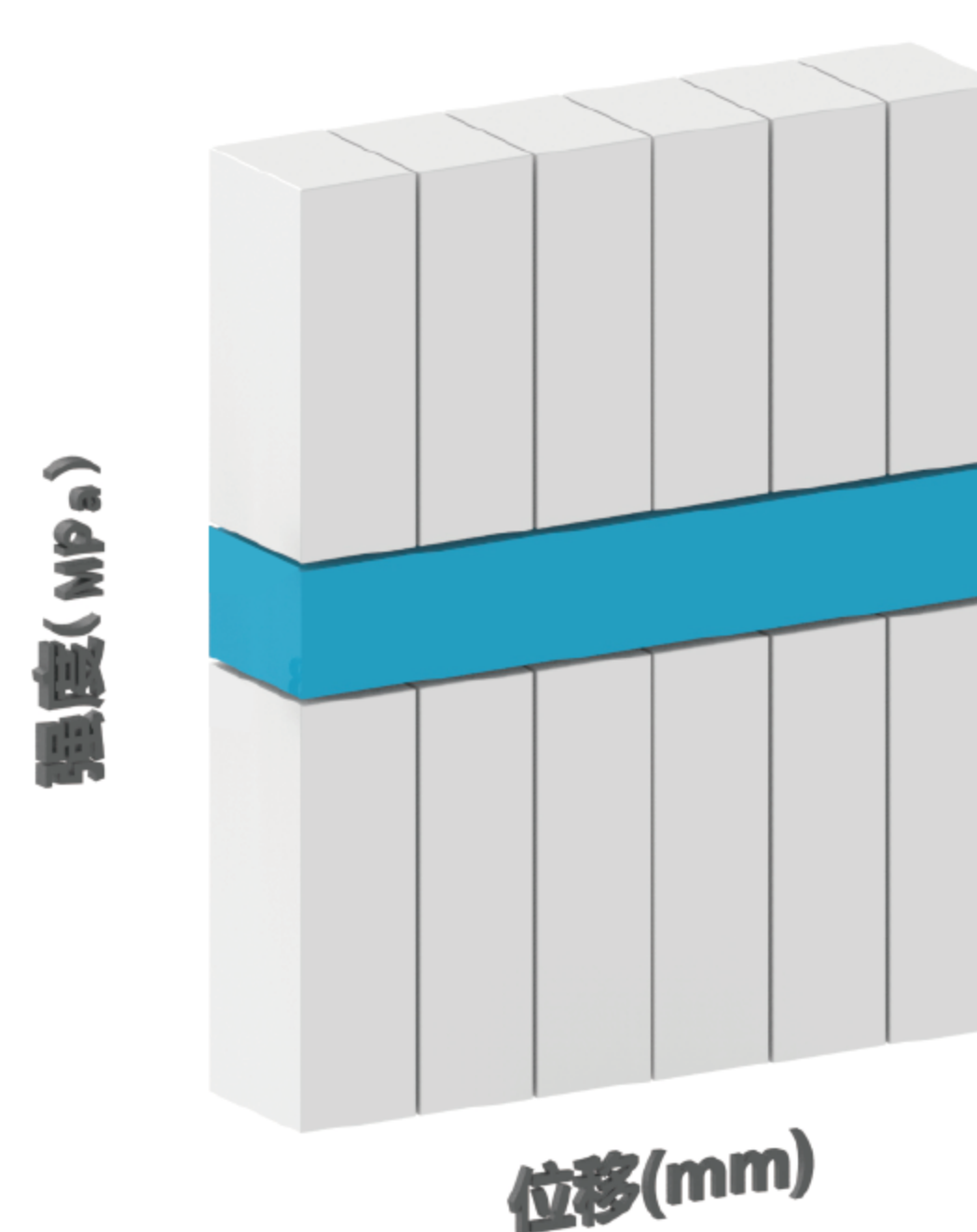
Section A



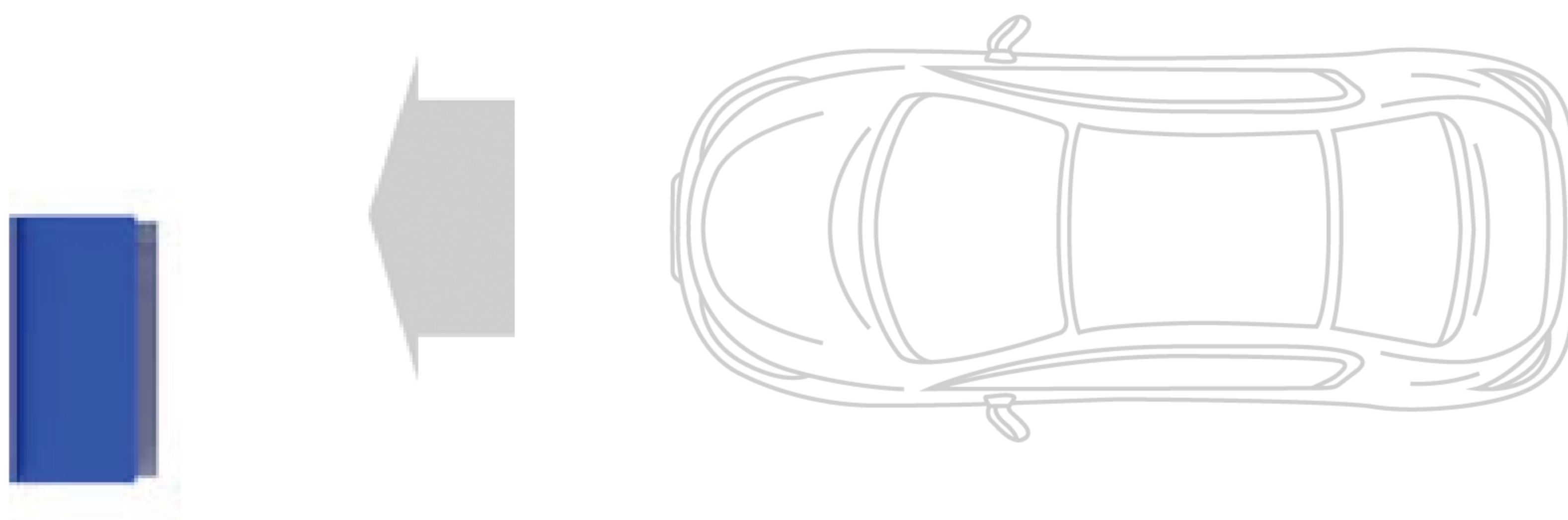
Section B



Section C

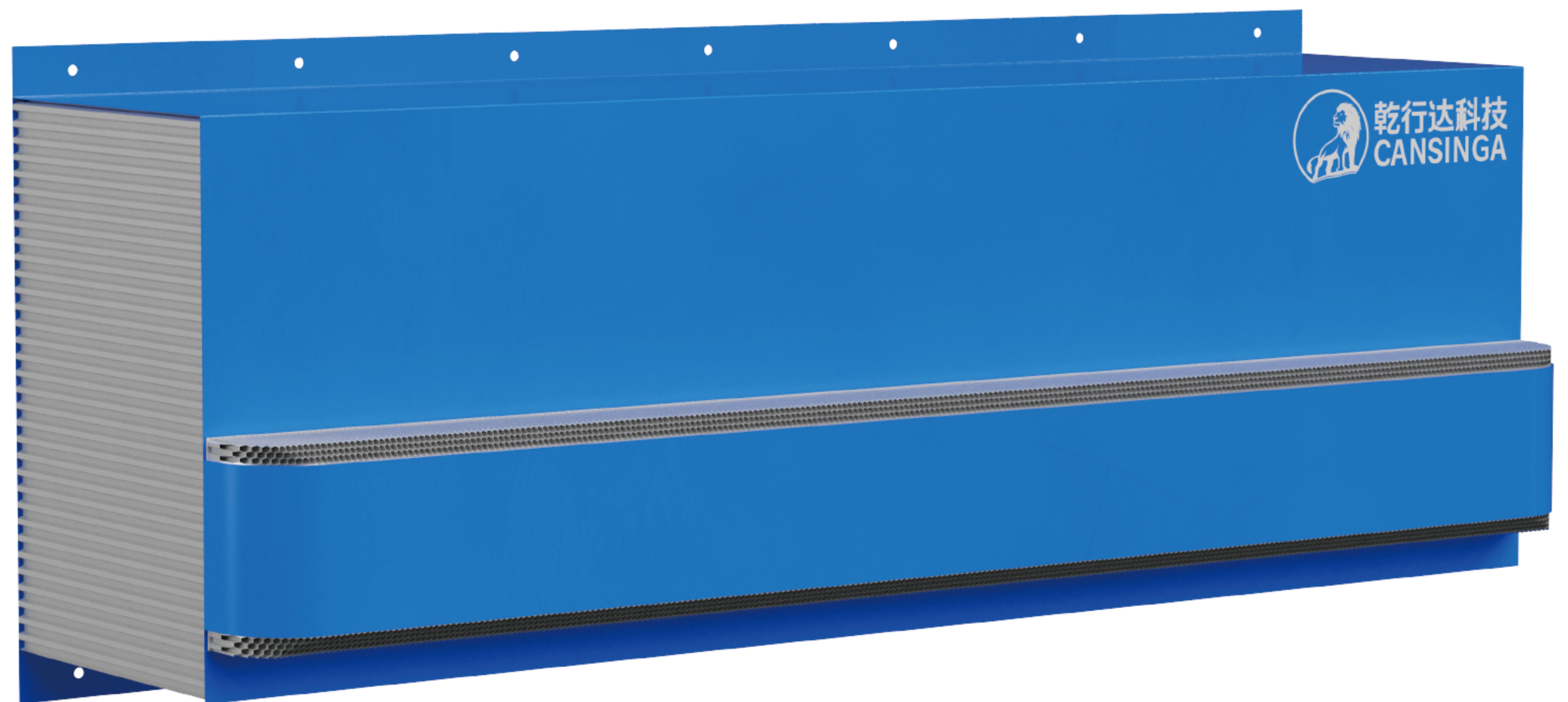


Collision Instructions



NHTSA 214-MDB

NHTSA FMVSS-214 Side Impact Barrier



Describe

NHTSA 214-MDB is used for the full size crash worthiness test of the side and tail of the car. This product is designed to provide a measuring tool with sufficient accuracy, to ensure repeatability of test results and to reflect the protect performance of the vehicles against passengers.

Technical norm

NHTSA TP214-D NHTSA 49CFR571.214

NHTSA Lab Test Procedure

Dynamic Side Impact Protection

TP214D Appendix C

Structure

Main Honeycomb Cores
Bumper Honeycomb Cores
Base Plate
Face Plate

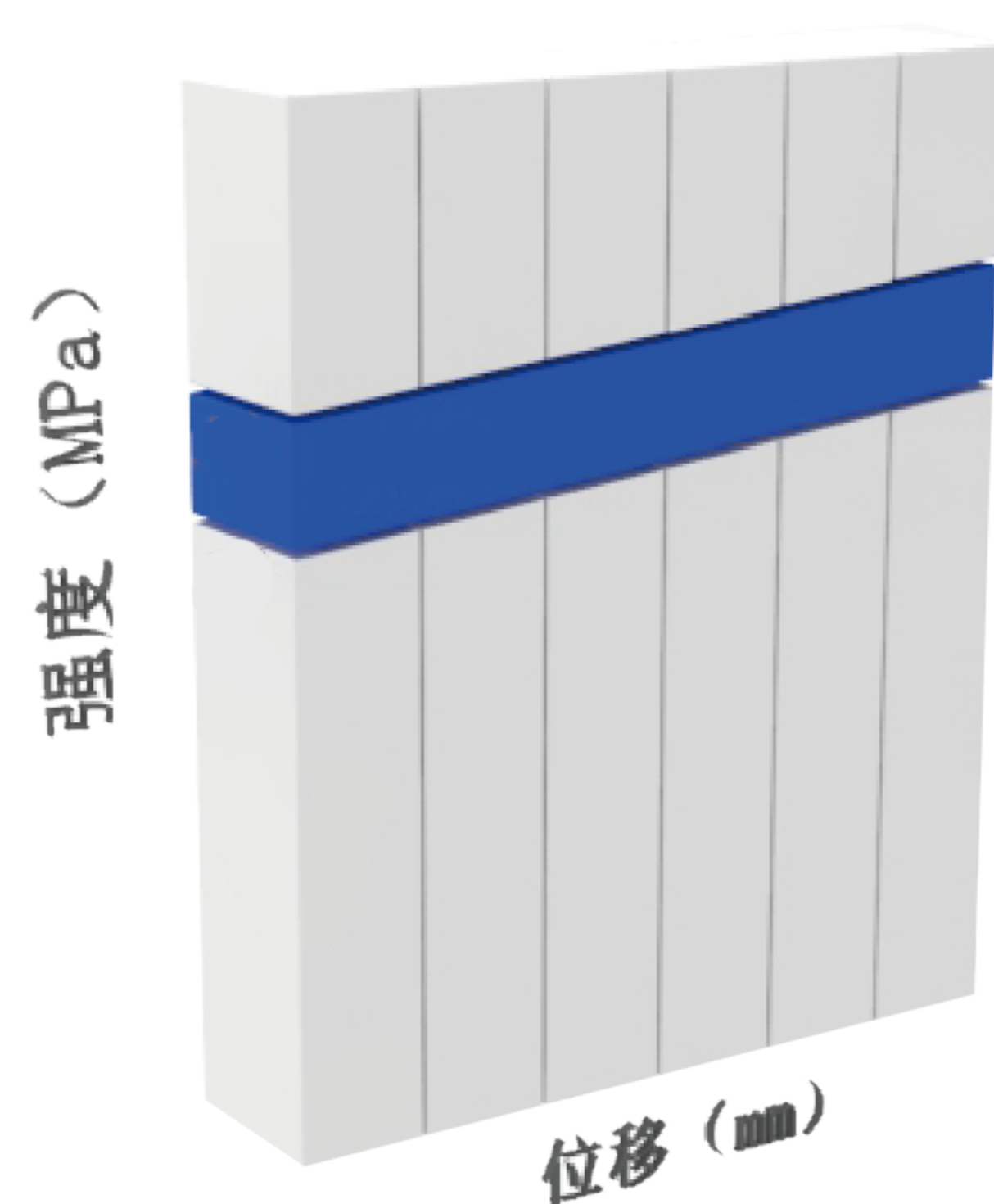
Usability

Certificate and test data are attached with the delivery box

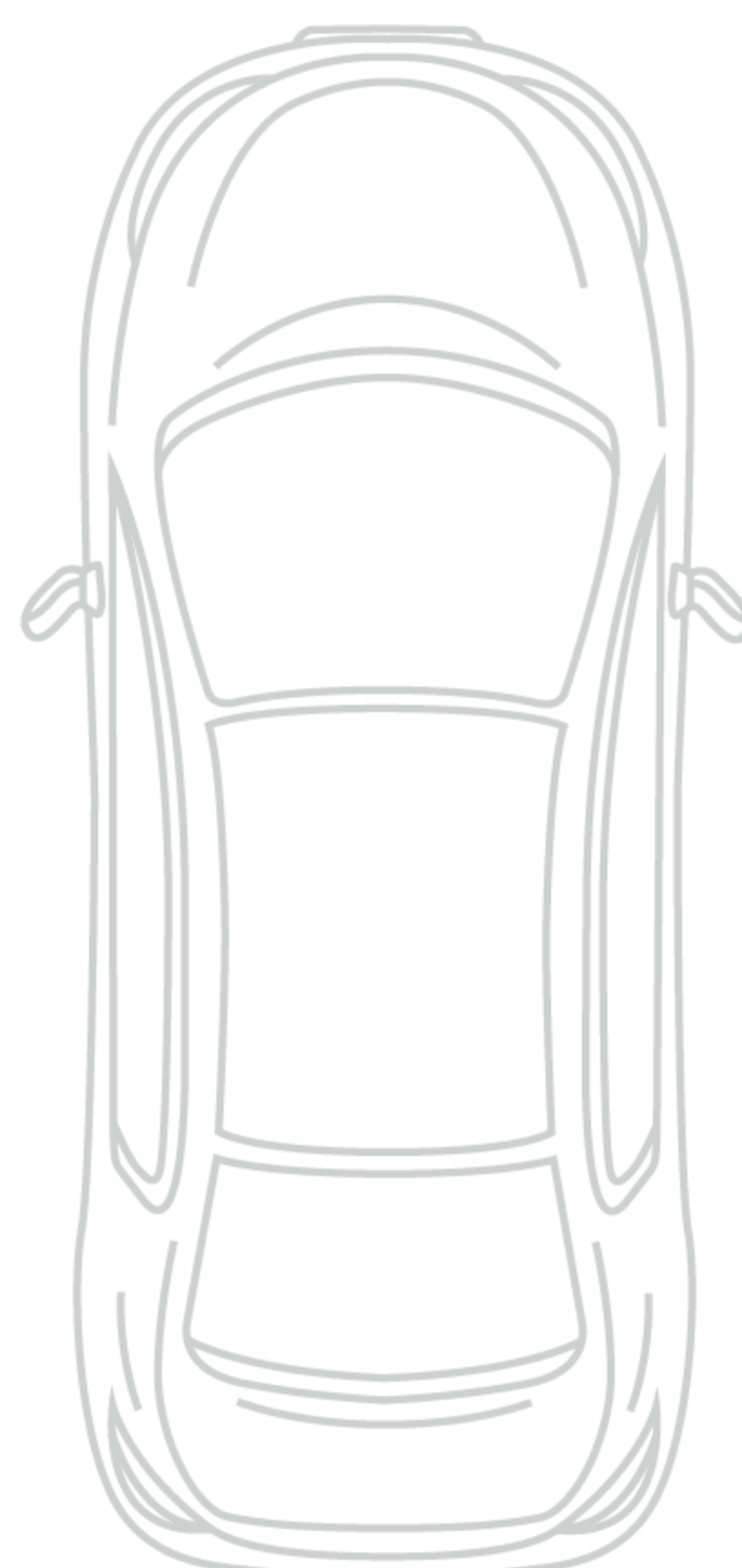
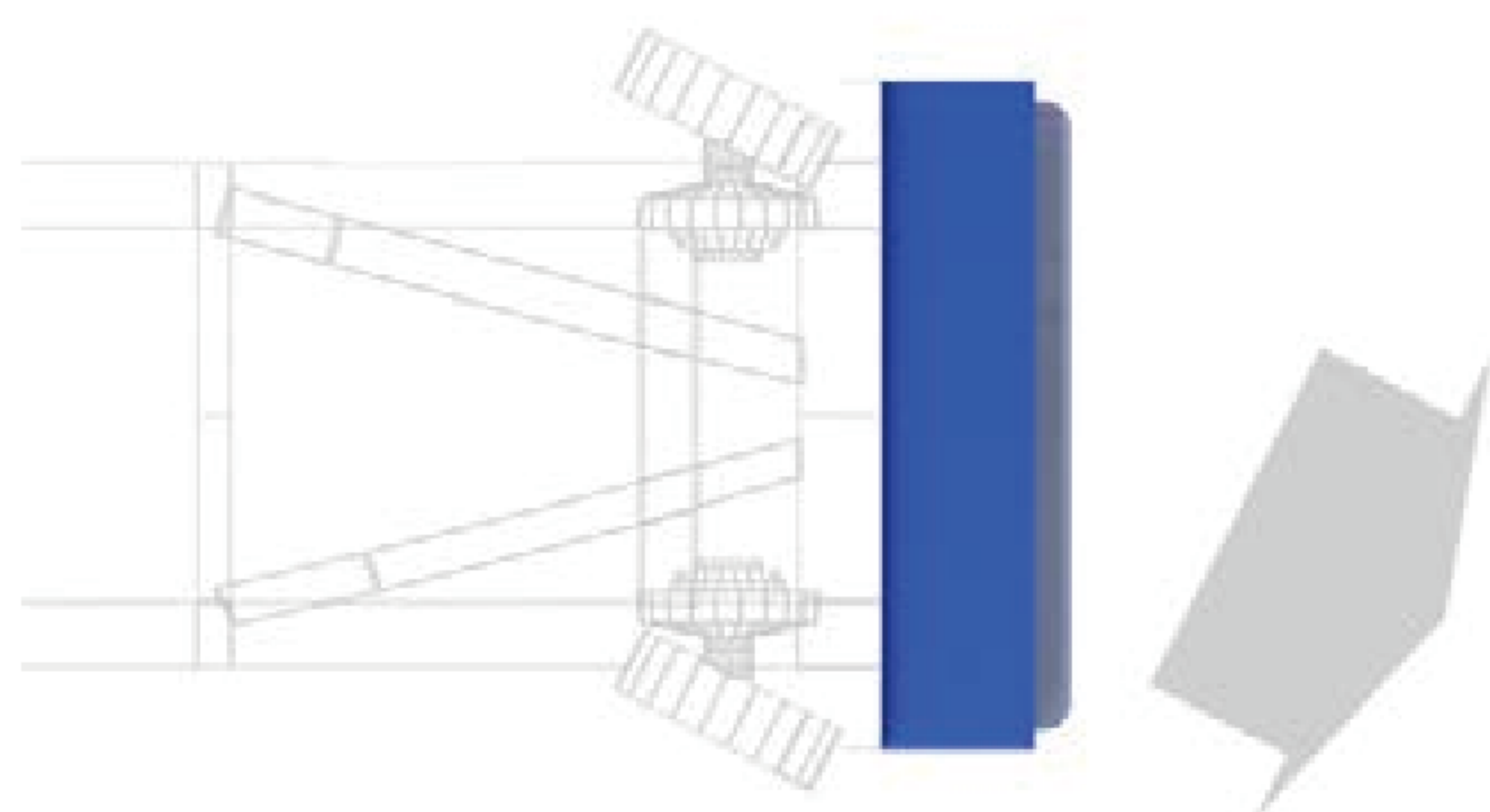
A custom color and form of the paint for unique application is available.

Single packaging carton has the size of 1750 mm * 760 mm * 560 mm and the weight of 30 kg.

Crush Properties (static state)

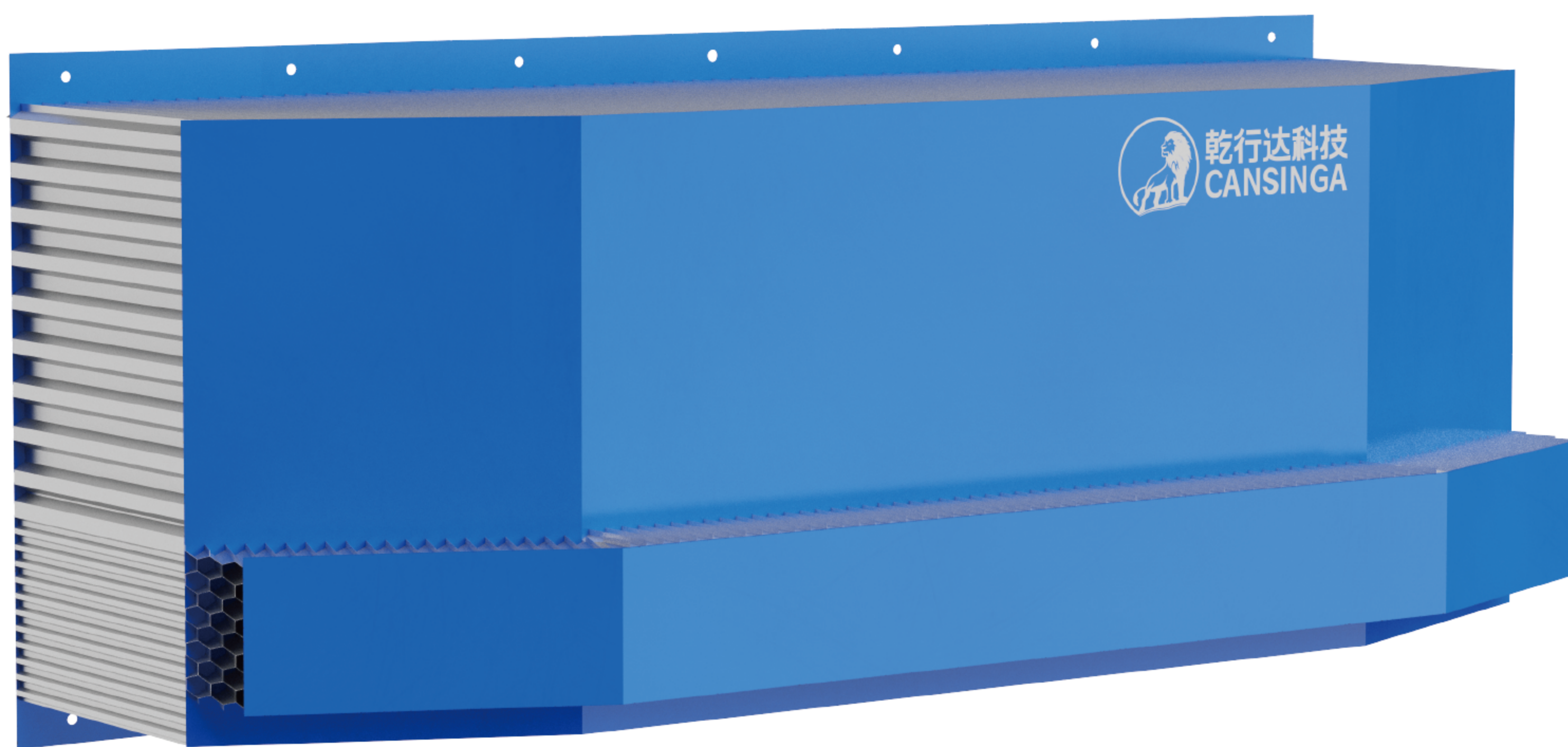


Collision Instructions



IIHS-MDB V2

IIHS2.0 Side Moving Impact Deformable Barrier



Describe

The barrier is designed to provide a measuring tool with sufficient accuracy to ensure the repeatability of the test results and to reflect the protective performance of the vehicle against passengers.

Technical Norm

Insurance Institute for Highway Safety

Moving Deformable Barrier 2 Specification October 2020

Structure

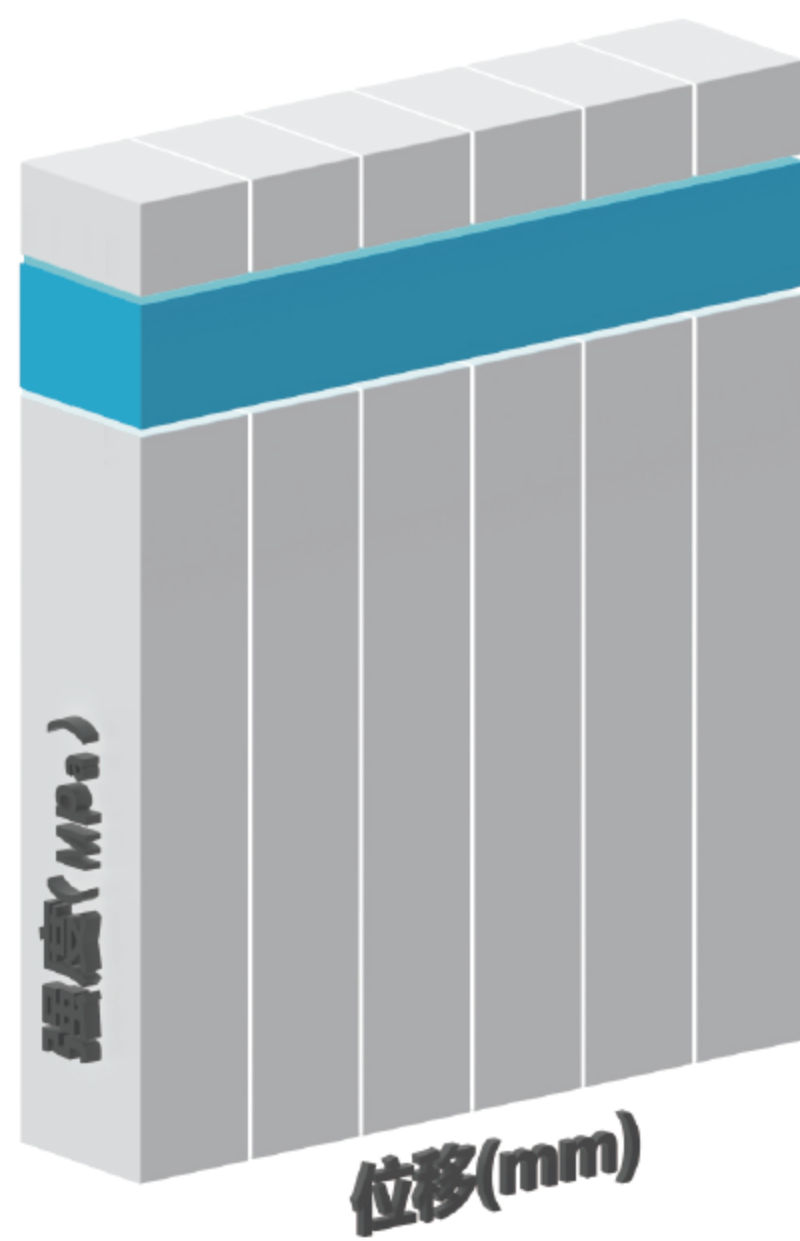
Main Honeycomb Cores (Section A, B, C, D)
Bumper Honeycomb Cores (Section E, F)
Base Plate
Bumper Cladding
Bumper Honeycomb Cores Base Plate

Usability

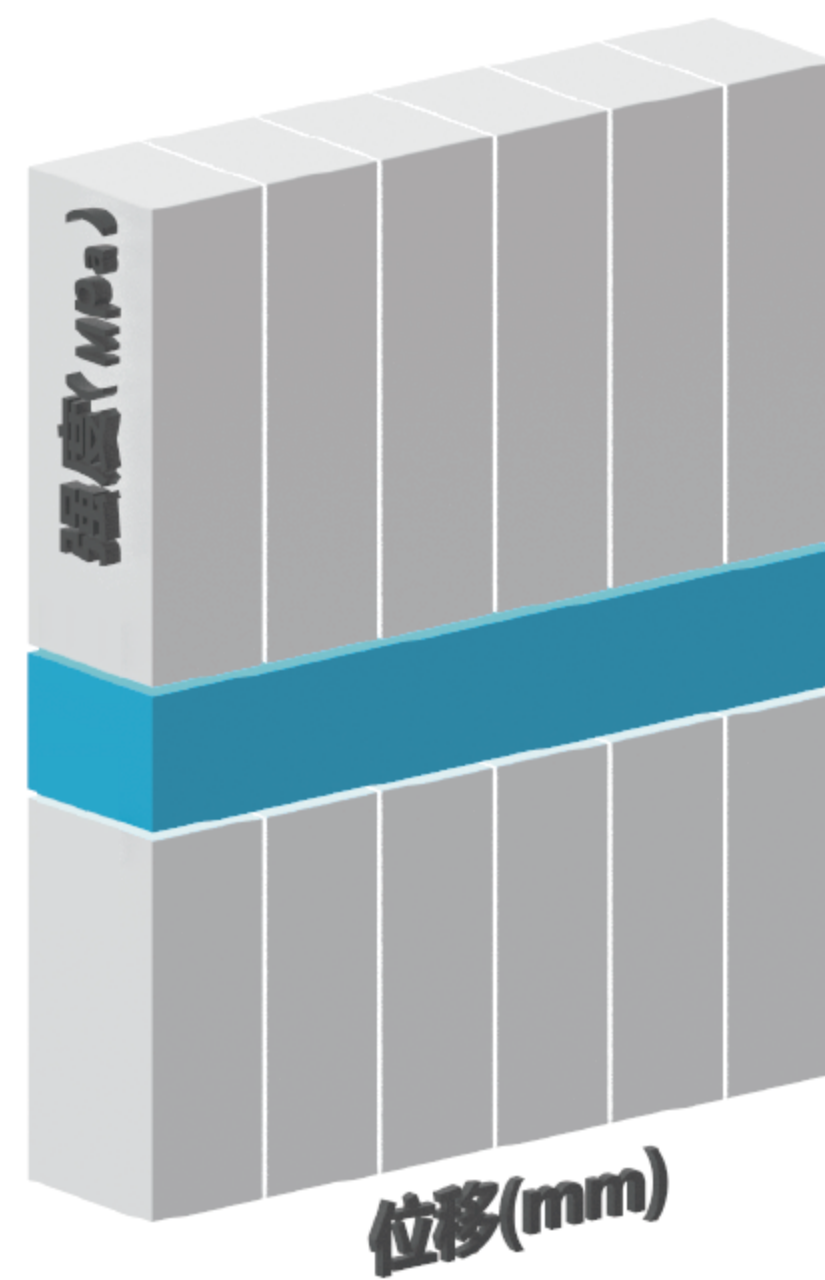
Certificate and test data are attached with the delivery box
A custom color and form of the paint for unique application is available.
Single packaging carton has the size of 1780 mm * 780 mm * 680 mm and the weight of 25 kg.

Crush Properties (static state)

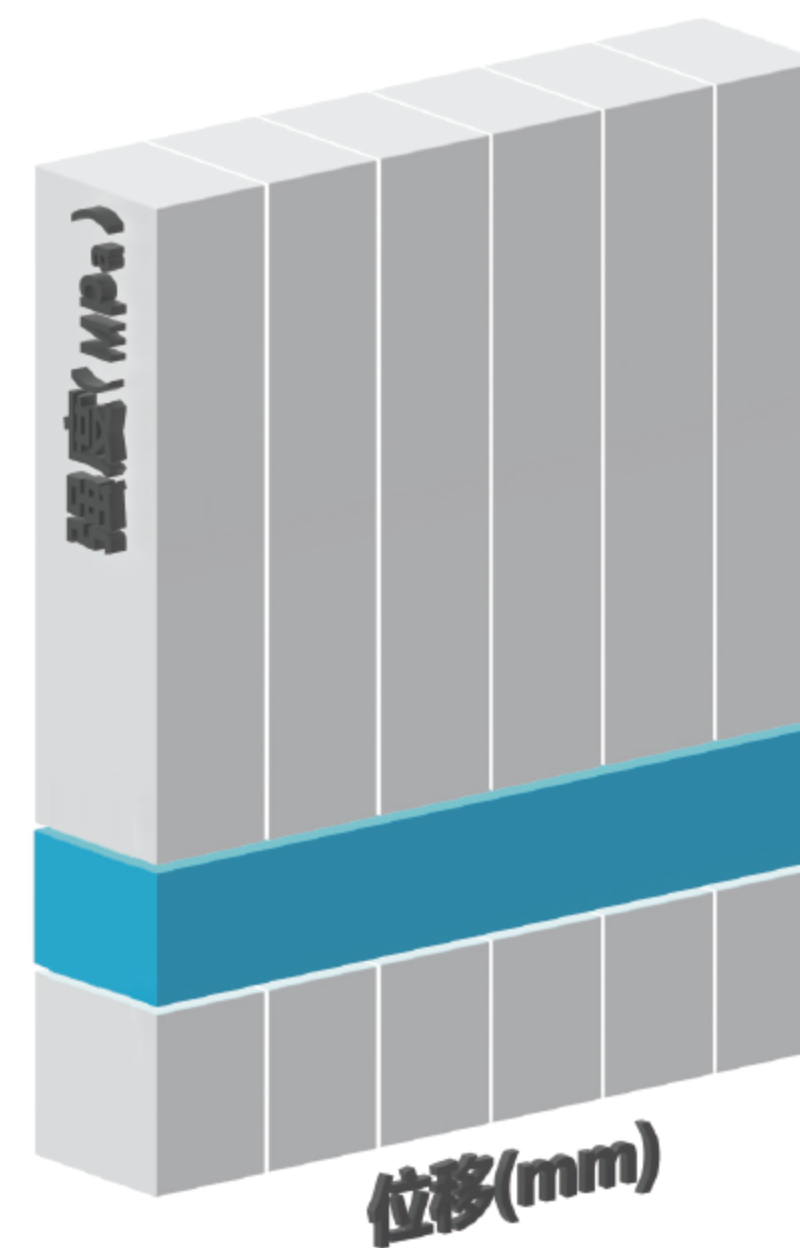
Section A、C



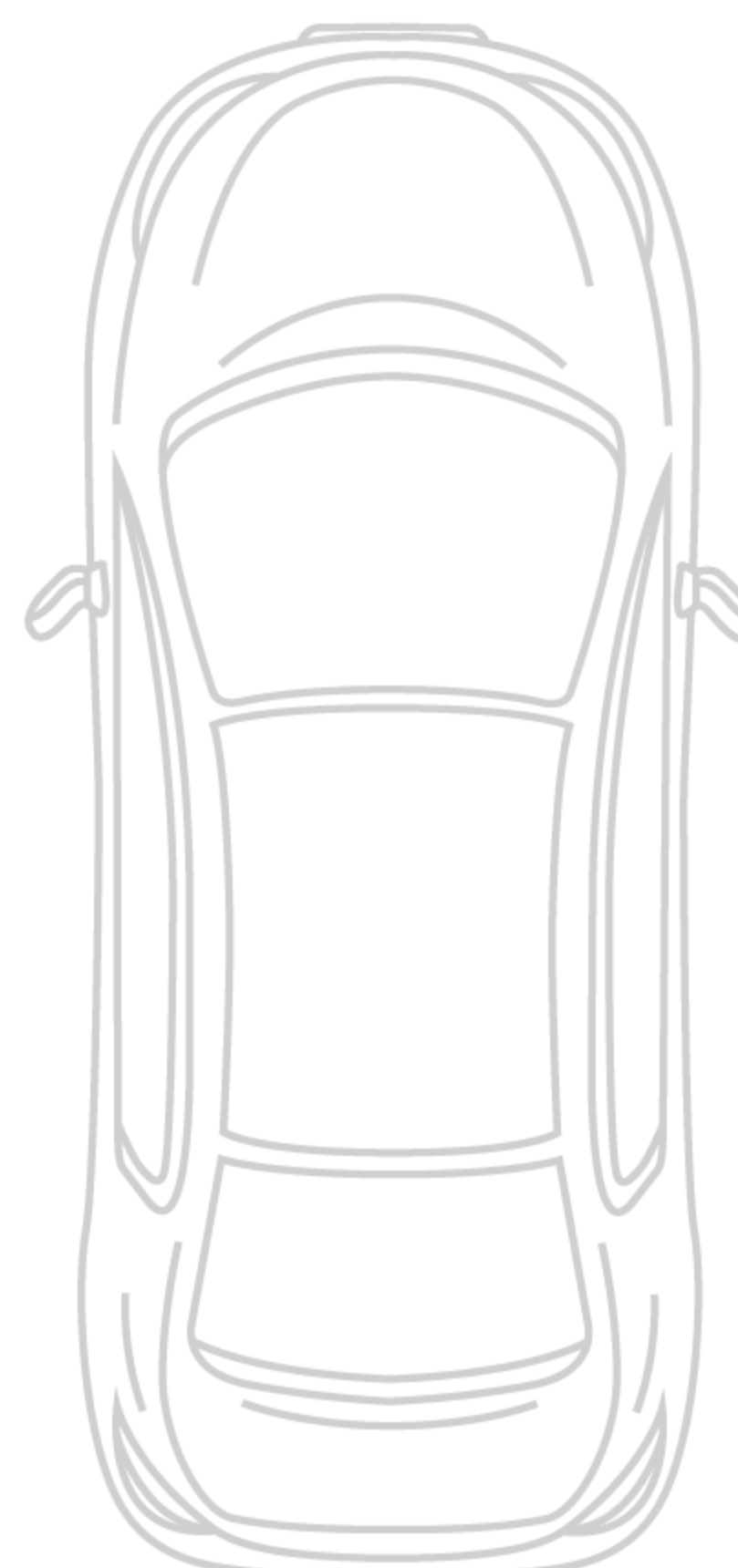
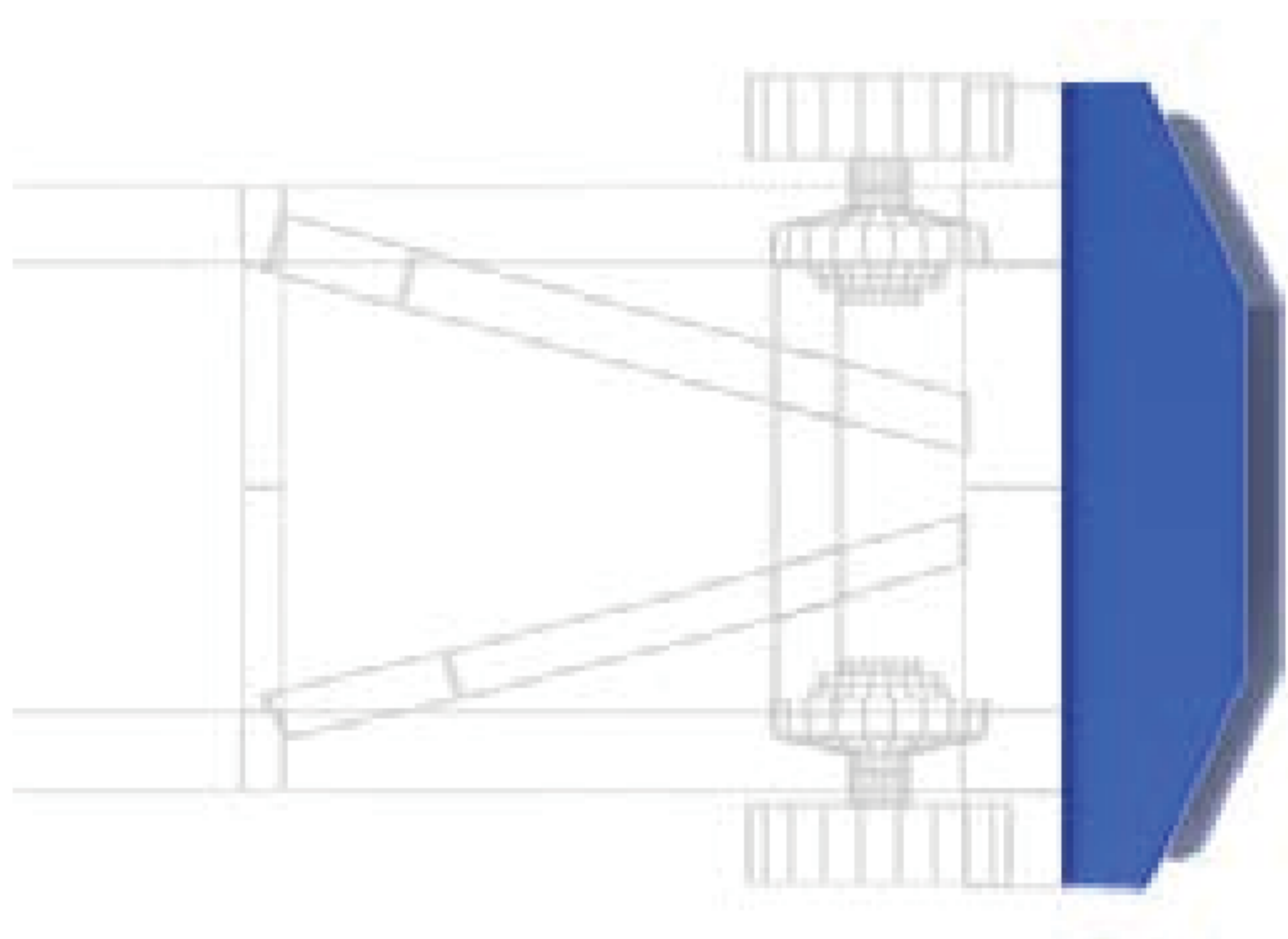
Section B、E、F、G



Section D

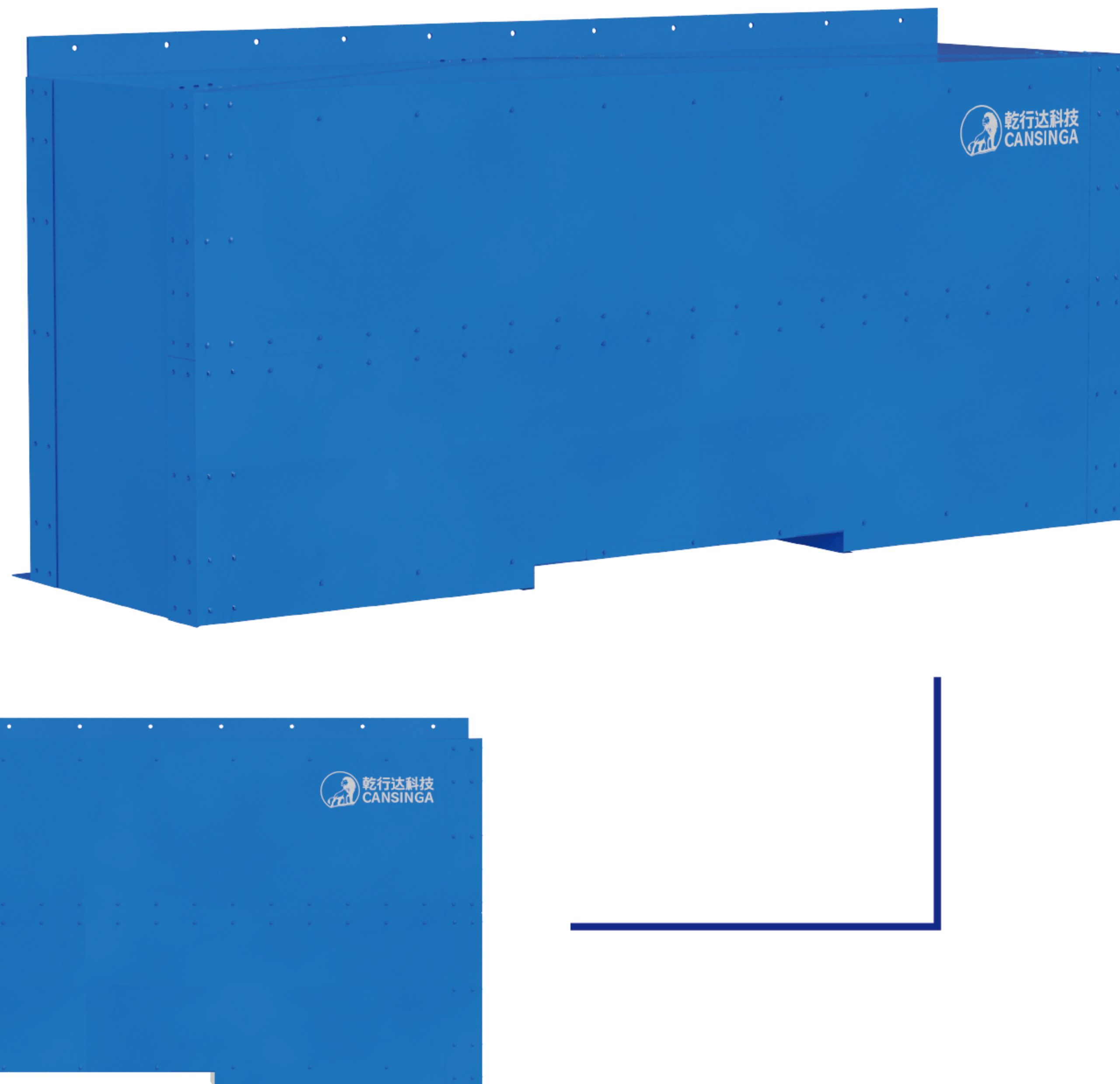


Collision Instructions



NHTSA-OMDB

NHTSA frontal oblique impact aluminum honeycomb barrier



Describe

NHTSA Oblique Offset Moving Deformable Barrier (NHTSA-OMDB) is used for the full scale frontal oblique impact crash worthiness test of automobiles. The barrier is designed to provide a measurement tool with sufficient accuracy to ensure that the repeatability of test results can also reflect the protection performance of the vehicles against passengers.

Technical norm

NHTSA OMDB v2015

Structure

Rear honeycomb core
Front honeycomb core
Base Plate
Middle Plate
Contact plate

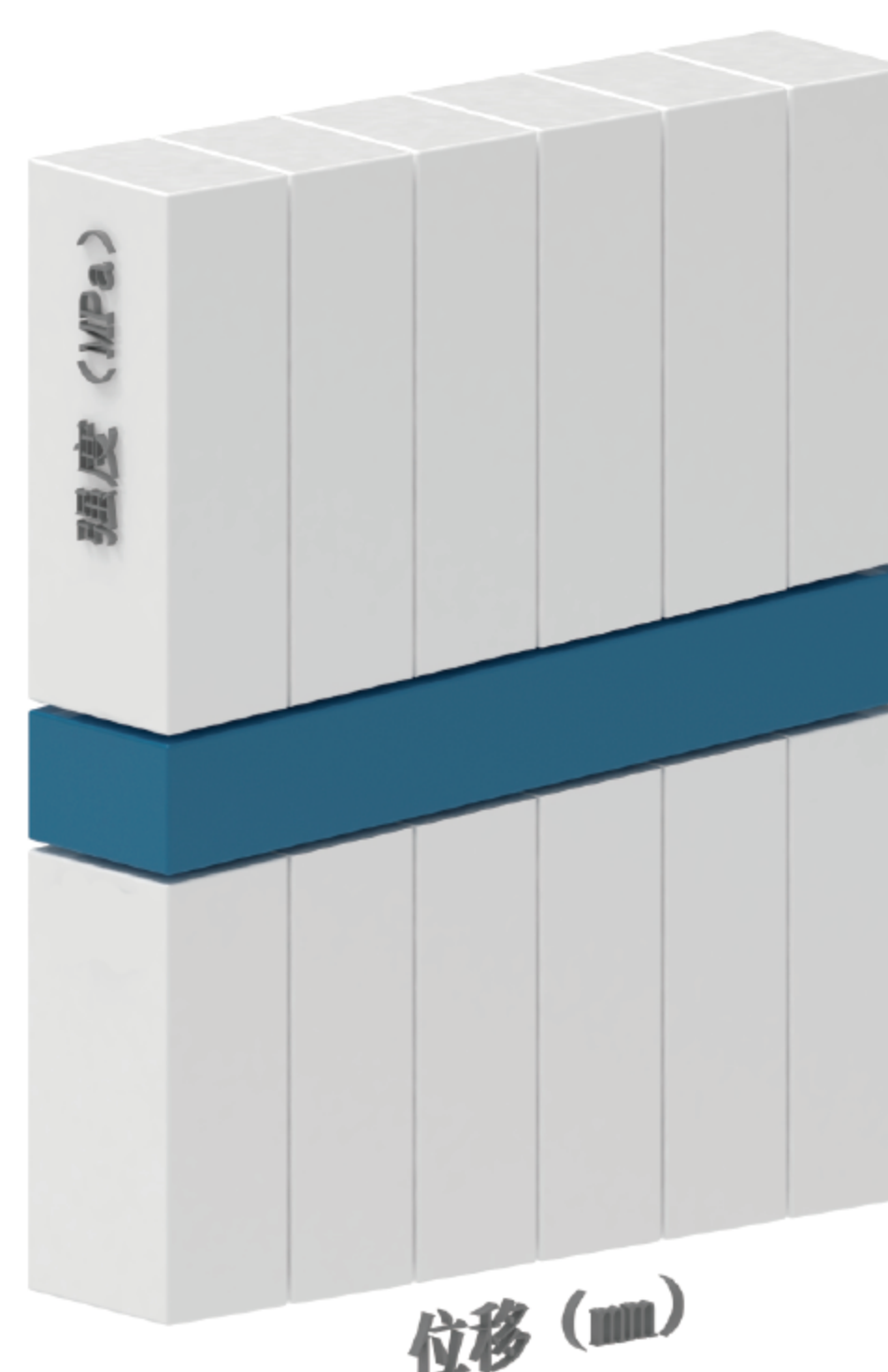
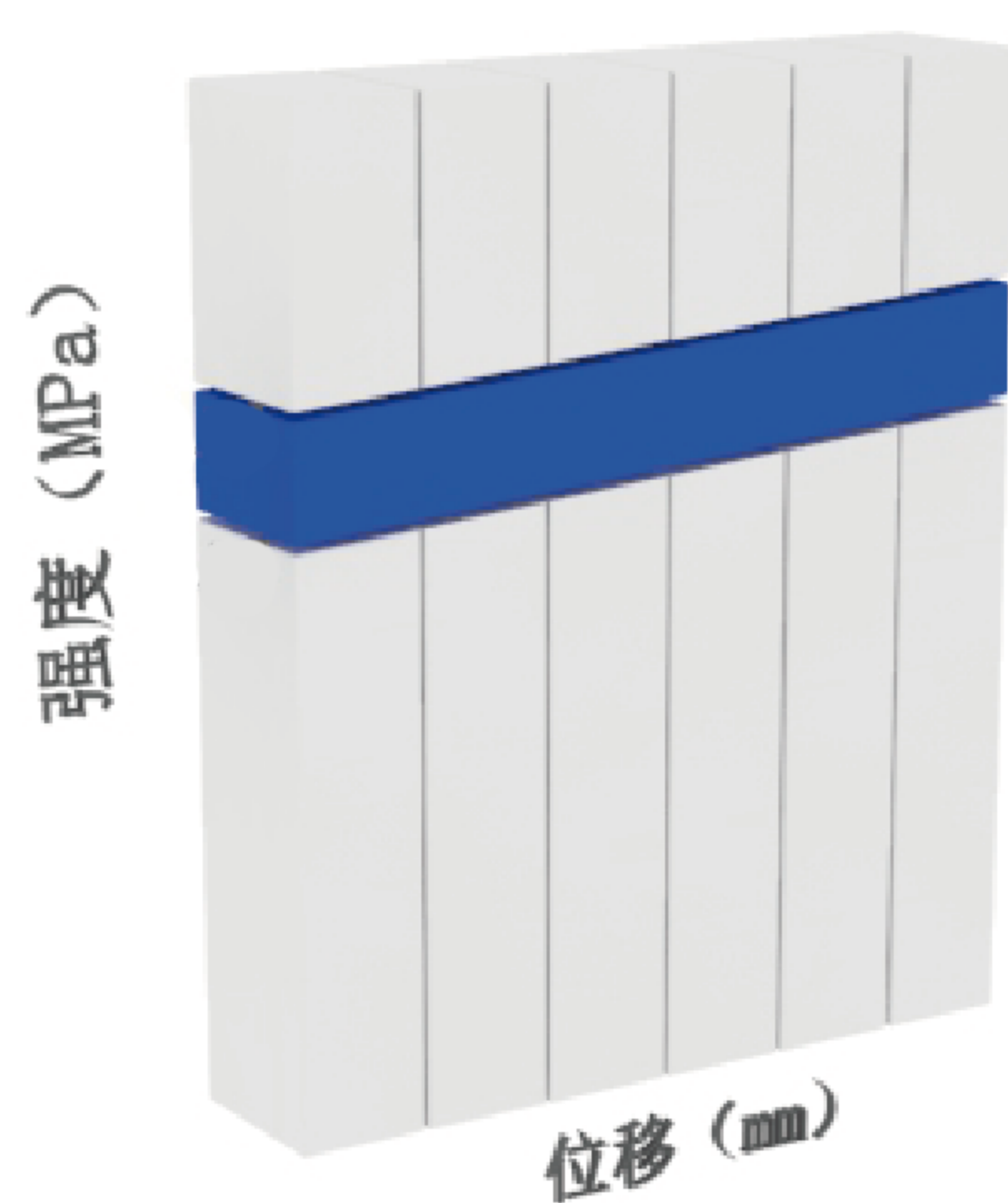
Usability

Certificate and test data are attached with the delivery box

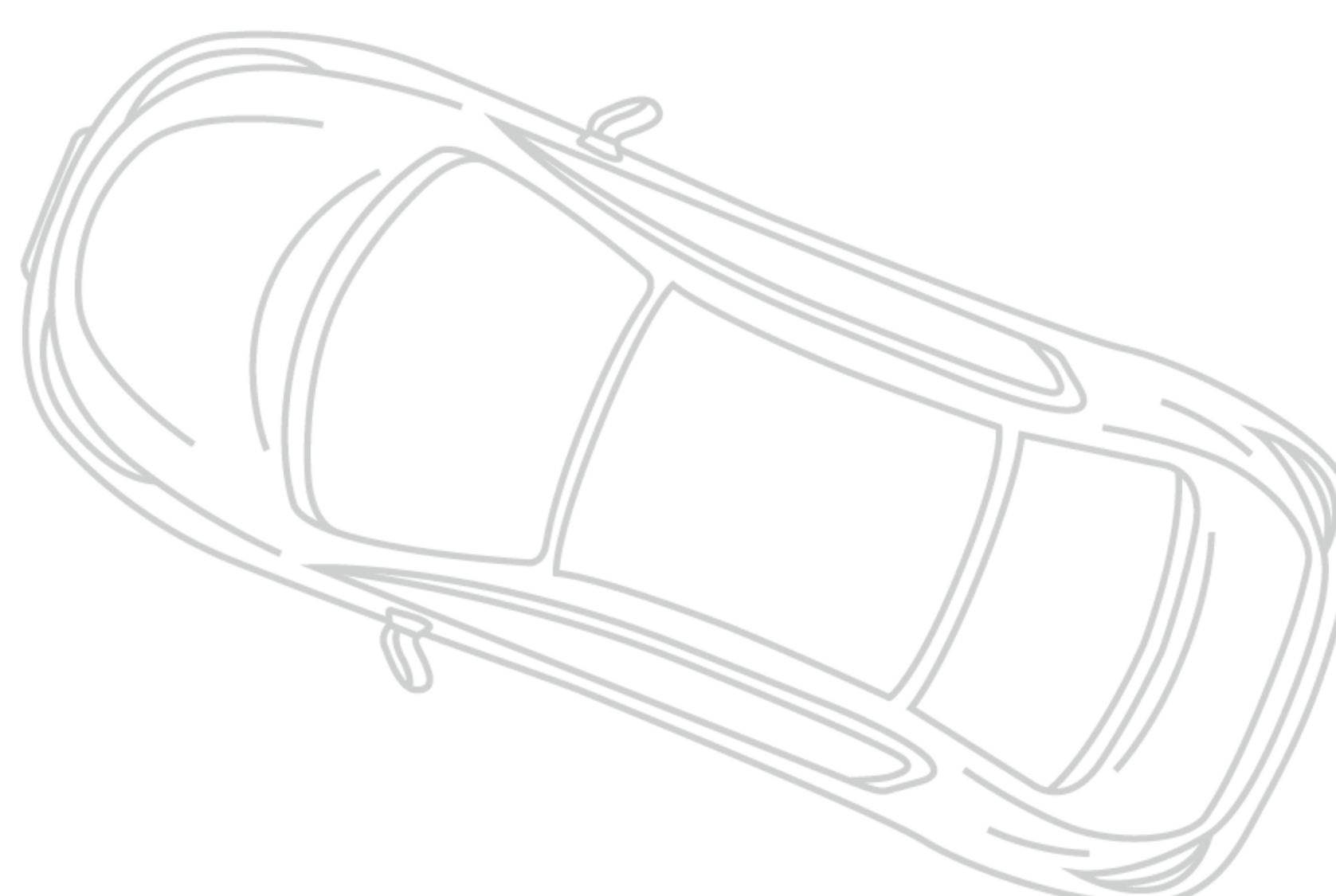
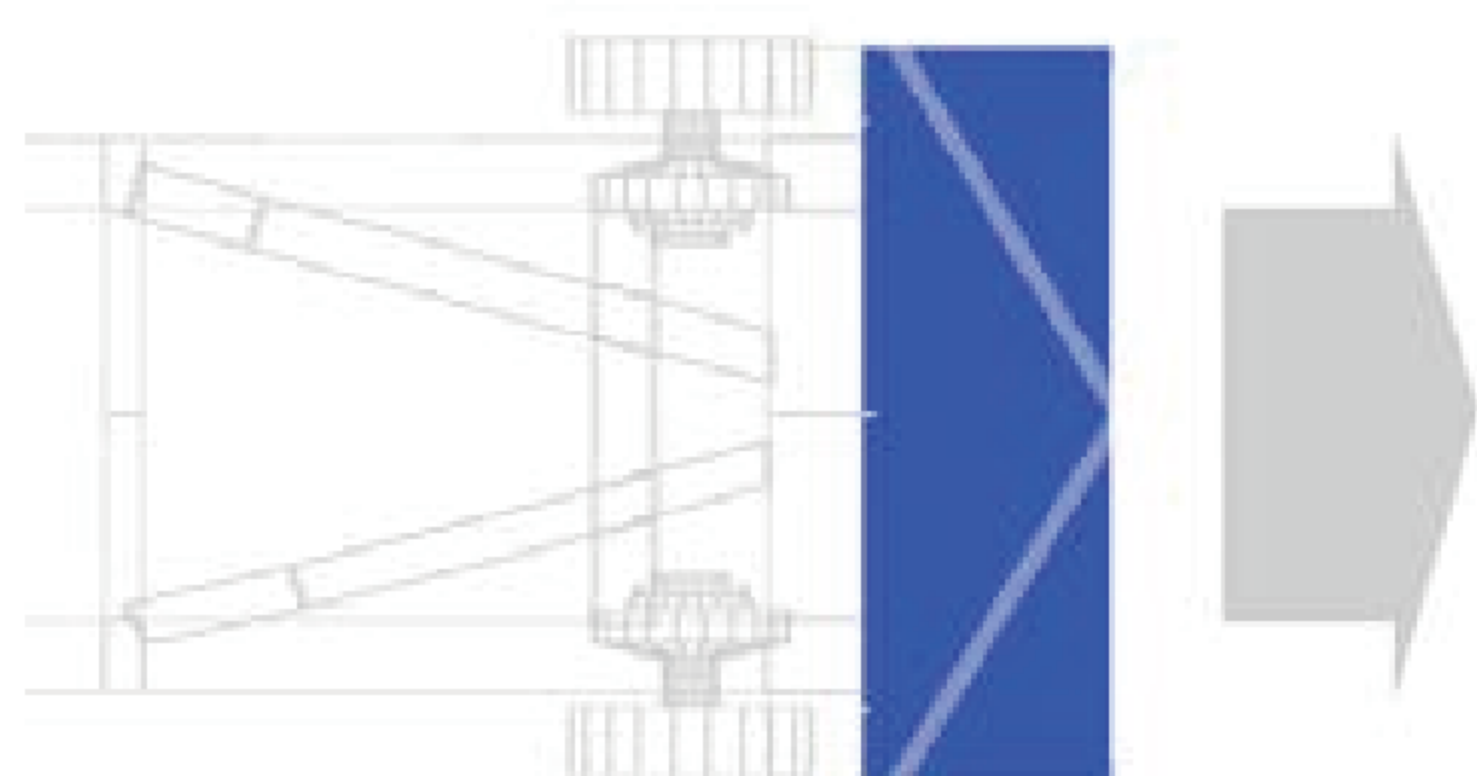
A custom color and form of the paint for unique application is available.

Single packaging carton has the size of 2280 mm * 1200 mm * 750 mm and the weight of 40 kg.

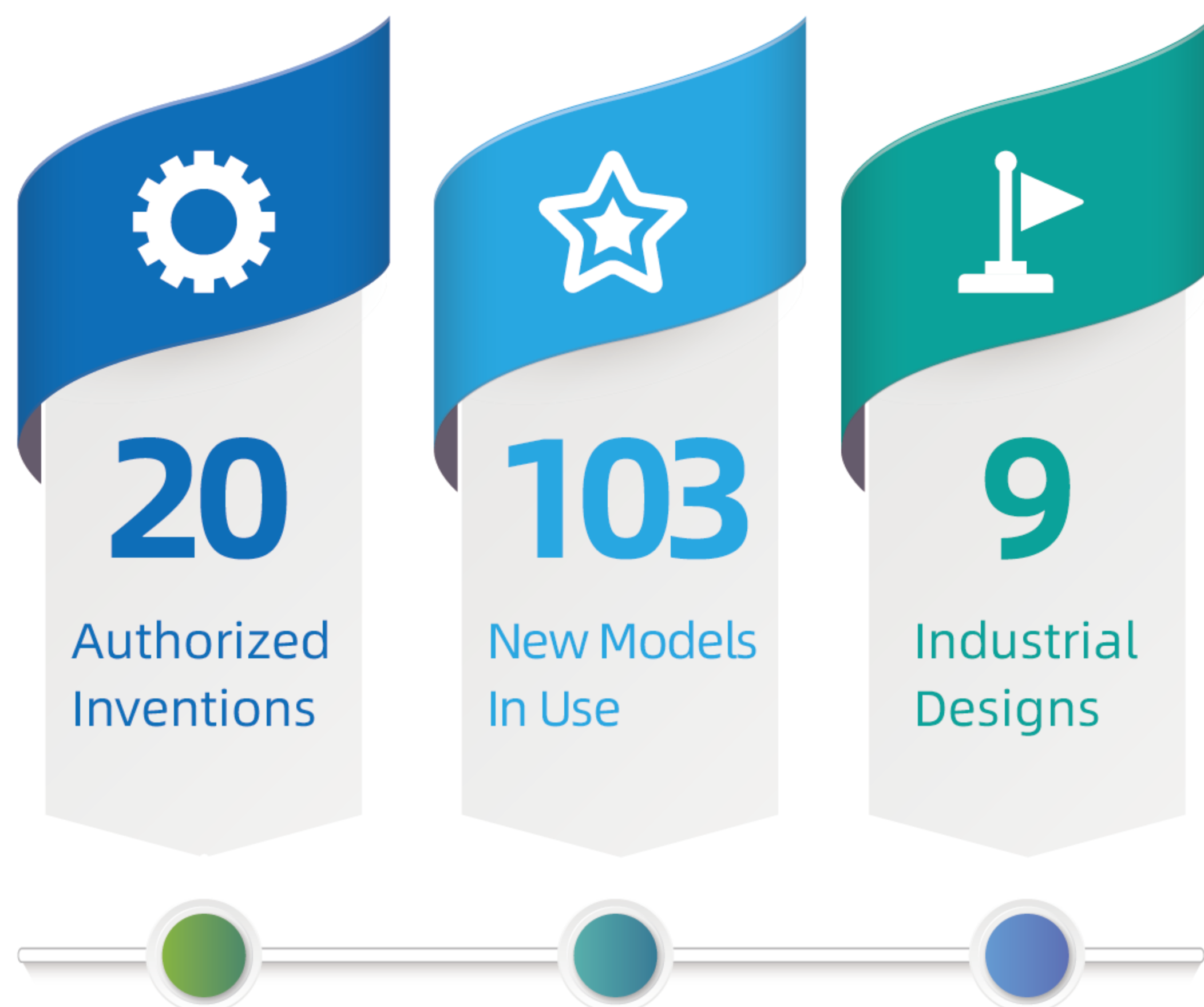
Crush Properties (static state)



Collision Instructions



Group Patents



Until Jun 2022, CANSINGA has applied more than 200 patents and 3 PCT.



Honors

CANSINGA has passed the ISO9001: 2015 quality management system certification. The aluminum honeycomb barrier developed by CANSINGA for the safety test of new vehicles has passed the authoritative test conducted by China Automobile Research Institute Automobile Inspection Center (Tianjin) Co., Ltd., and other relevant testing institutions in Europe, which means the relevant performance indicators meet the test requirements.



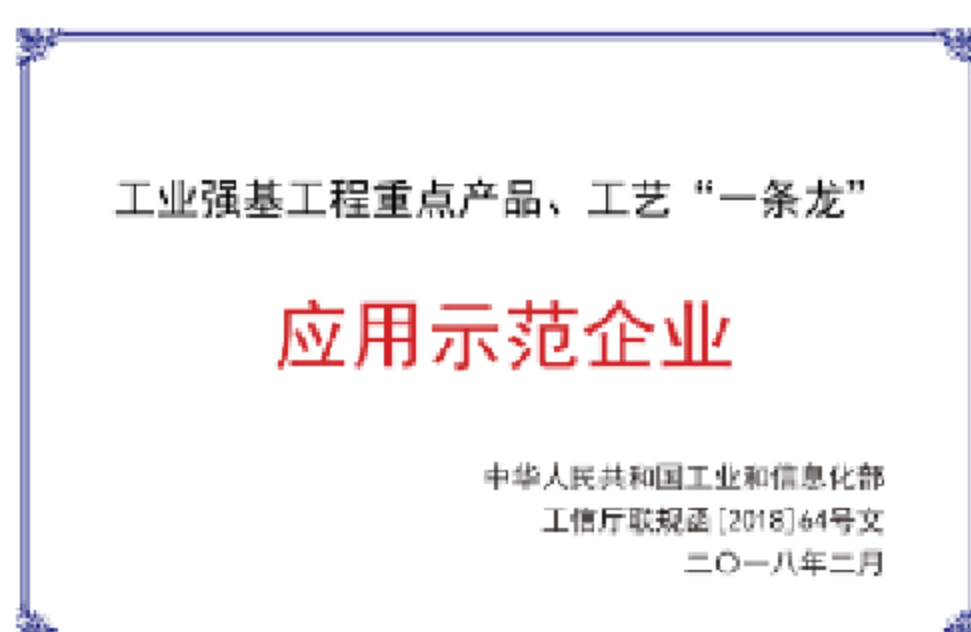
Intellectual Property



Shenzhen Intellectual
Property Advantage Enterprise



China Patent Excellence Award



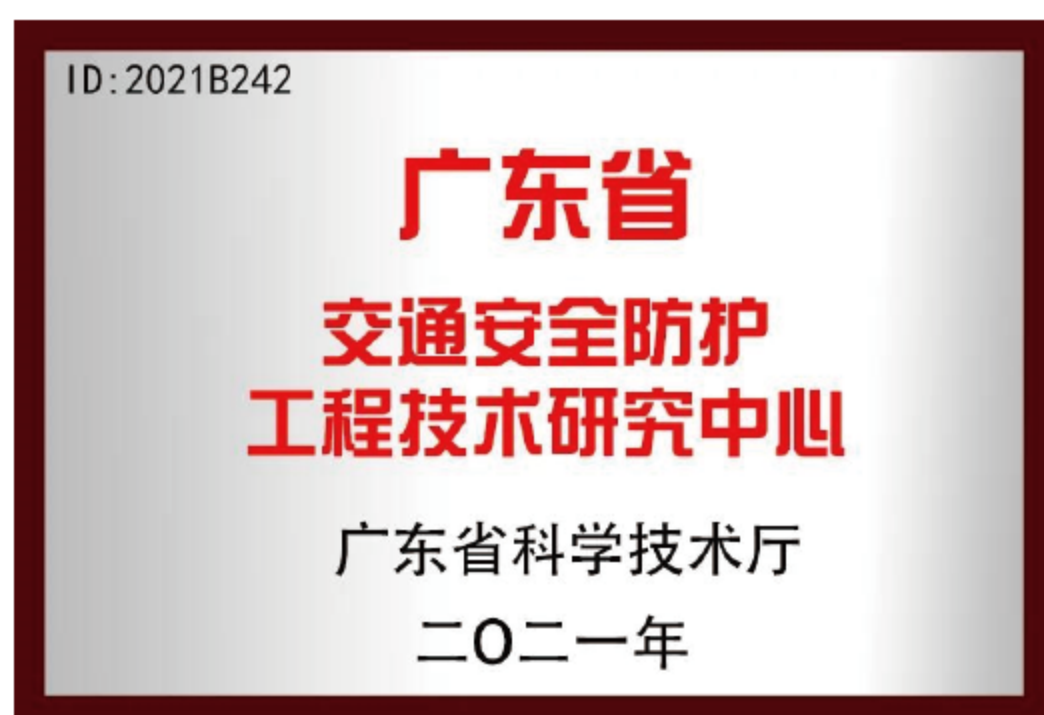
One Stop Demonstration
Enterprise Of Strong
Industrial Foundation



High Tech Enterprises



Heilongjiang Science
and Technology Award



Guangdong Technology
Research Center



Academician expert
workstation



Post doctoral Innovation
Practice Base

Qualification Certification



ISO9001
Certification



ISO14001
Certification



ISO45001
Certification



EN15085
Certification



DIN6701
Certification



IRS 22163
Certification

Aluminum Honeycomb Barrier For Safety Test Of New Vehicles

ShenZhen CANSINGA Technology Co.,Ltd



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