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Bullet Resistance Glass



Auto Commercial International GTD FZCO www.acigtd.com



We Care About Your Safety



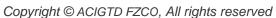


Delivery on time.

Fleet order support

.acigta.

Reliable



Automotive Applications

Architectural applications.



Automotive Spare Parts & Accessories

- Genuine OEM
- After Market
- 4x4 Vehicles
- Civilian Vehicles

Armoured Vehicle Components

- Intercoms & Electronics
- Bullet Resistance Glass
- Run Flats
- Mobility Solutions
- High Performance Materials
- Accessories

Architectural solutions

- Intercoms & Electronics
- High Performance Glass

Logistic Solutions

SERVICE AND SUPPORT

- We pay personalized attention and time in order to meet all your expectations.
- ✓ The products are developed and manufactured professionally and we respond in the shortest time.
- ✓ Our prices and services are competitive.
- ✓ Global Logistics













PRODUCTION PROCESS



Colombia

France

Salvador

Costa Rica

U.A.E

Please click on the links below to view graphical description of the glass production process

http://centigon.com.co/glasses/

https://www.youtube.com/watch?v=8wTZKmbD8N0&feature=youtu.be

Worldwide Representation.

Production plants:

Europe:

Lamballe, France.
America:

- Monterrey , Mexico.
- Distrito Federal, Mexico.
- Caracas, Venezuela.
- Bogota, Colombia.
- Bogota , BRG, Columbia

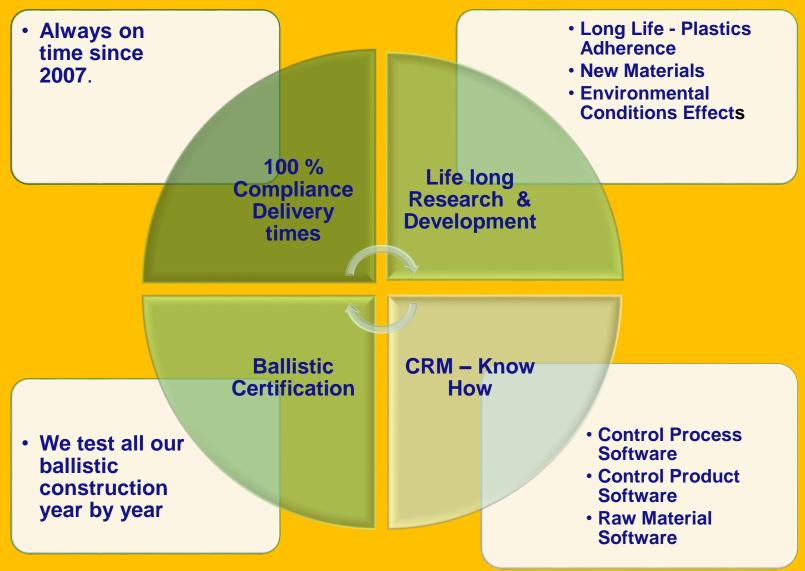


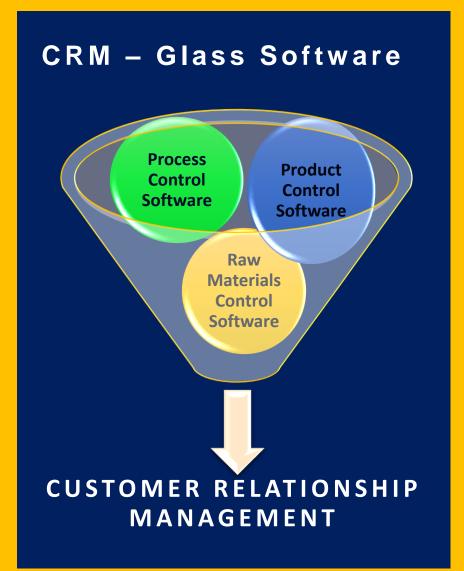
Our Glass Around The World



Why are we different?









Products and Technology



Steel Frame

- Bulletproof glass where the glass offset is replaced by a steel framework.
- Generally this product is requested by the military, where the care of the vehicles is low.
- This type of frame prevents broken glass offset caused by closing the car door too hard with the window down

Various Color - Currently we have the ranges of colors that the market demands

Color	Description
Clear	No Tint
Light Gray	Soft Gray
Medium Gray	Medium Gray
Dark Gray	Strong Gray

Scratch Shield

- Bulletproof glass with translucent glass materials.
- High tech polymers.
- Excellent optical properties.
- In compliance with NATO requirements.
- The inside has high quality polycarbonate, which allows the glass have greater internal resistance against scratches generated in the installation process.

Steel Insert

Bullet proof glass for ballistic resistance of less than .44 magnum ammunition. Offset made of glass & 2mm of ballistic steel

Architecture

Flat armored glass and optical ballistic characteristics identical to those used in the automotive sector, also used for military units and trucks.

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Process Control Software

Production Plan Planning program with agendas with the production capacity Operations

Control

- Production
 Station –
 Sections Plant
- Program
 production by
 day, with all the
 glasses in that
 section order by
 date

GLOBAL PRODUCTION

Production Control, in real time with code bars.

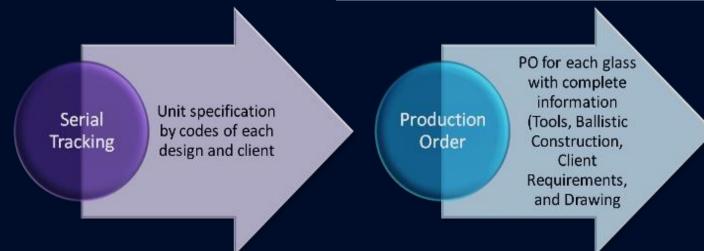




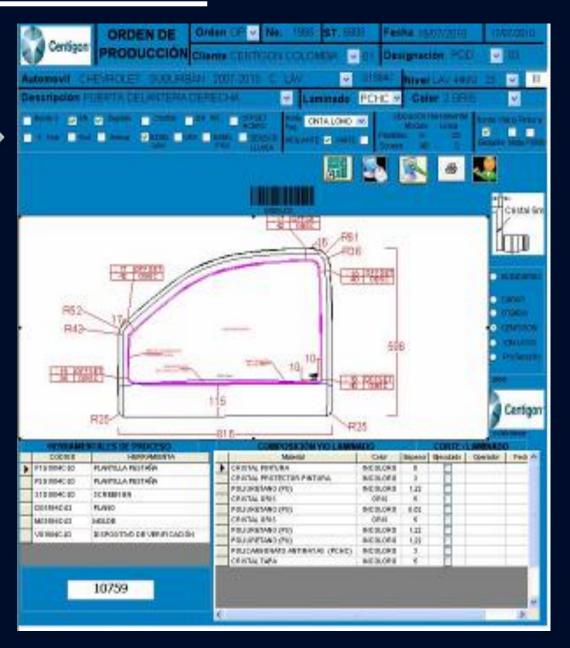




Product Control Software









Process Control Software - Reject Glass





Production Process



Reject Glass in the process



Automatic Electronic Email (operations and Supervisor)



Automatic urgent planning of the reject glass



Alert 1

1 Day late in the process



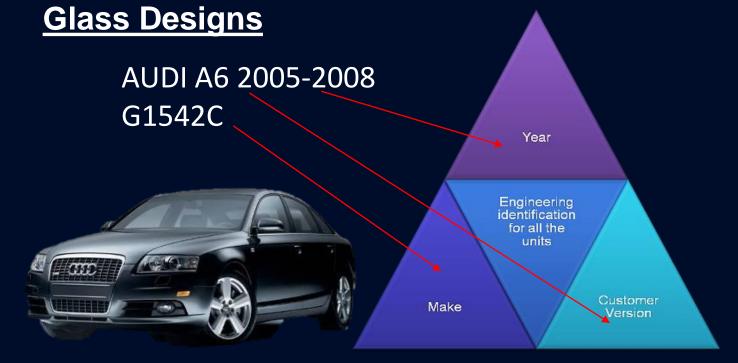
•2 Days late in the process



Alert 3

•3 or more days late in the process

Software BUDGET RAW MATERIAL CONSUMPTION AND CONTROL PLANNING



Research And Development

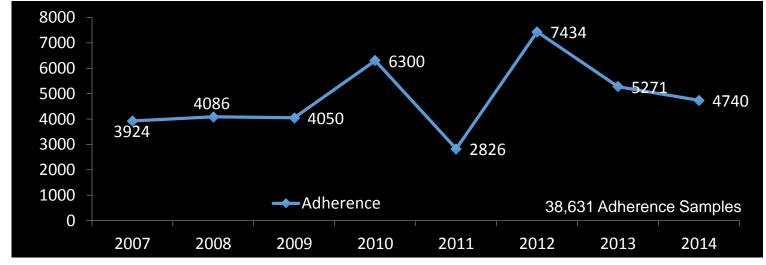








<u>Statistical process control</u> (SPC) is a method of quality control which uses statistical methods. SPC is applied in order to monitor and control which ballistic construction could have delamination problems in the future. Monitoring and controlling the process ensures that it operates at its full potential. The glass process can make as much conforming product as possible with a minimum of quality claims

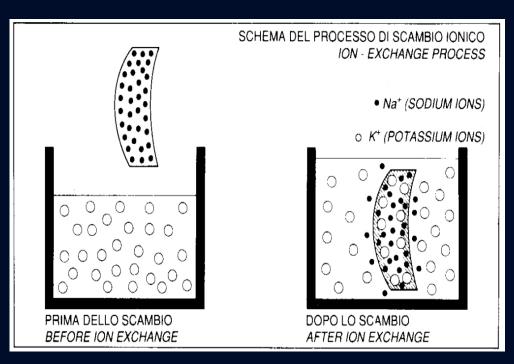


Identification	Peel Adherence Newton's / mmm	Product Durability	, , , , , , , , , , , , , , , , , , ,	
	> 7	> 3 years	Approved Material	
	4,6 >< 6,9	3 years	Approved Material	
	< 4,5	< 3 years	Reject Material	



Products and Technology – Chemical Tempering

Chemical tempering is a surface treatment made at a temperature under vitreous transition. Glasses are dipped into a bath with melted potassium salt at a temperature superior to 380°C for a period of 16 hours. Under these conditions, an exchange takes place between the potassium ions in the salt and the sodium ions at the surface of the glass. The introduction of potassium ions larger than the sodium ones, involves as a consequence, the establishment of residual stress characterized by a compressed tension on the surface compensated by stress tension inside the glass.

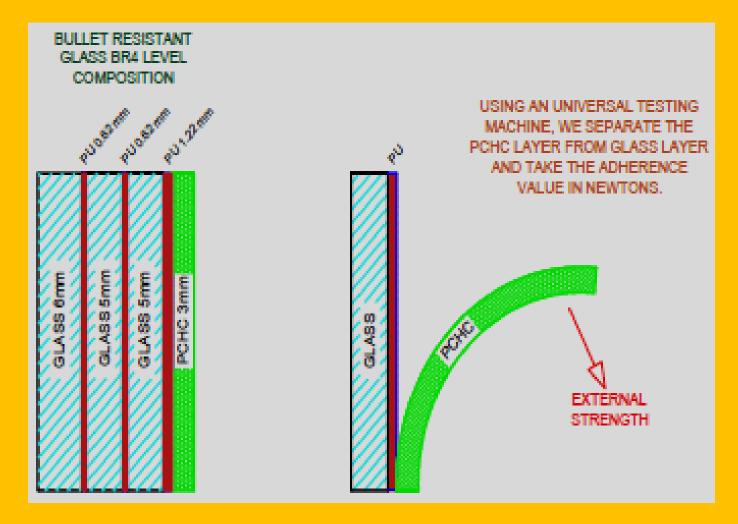








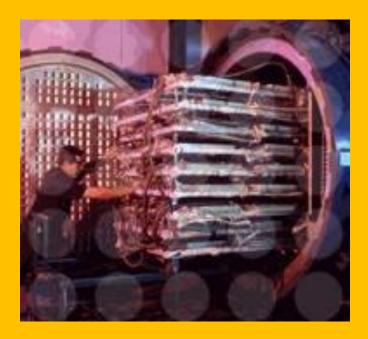
Research And Development - Peel Test





OPA Bullet Resistant Glass

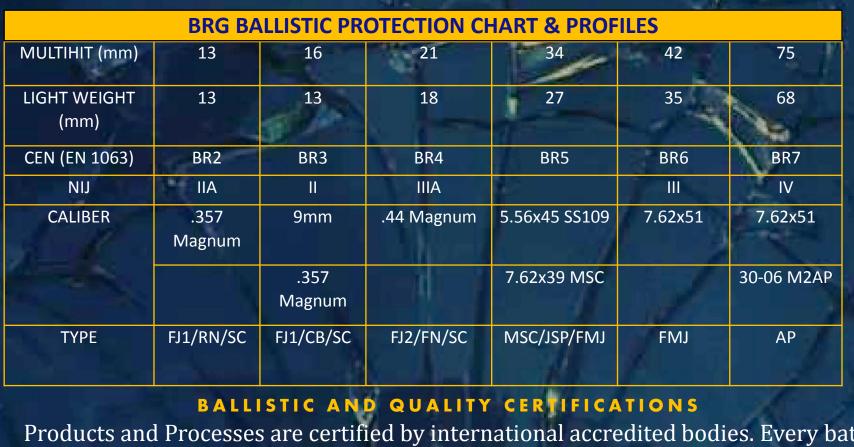
- OPA Bullet Resistant Glass, manufactures its own ballistic glass, reproducing the original Vehicle Features.
- OPA Bullet Resistant Glass exceeds the highest ballistics standards of the market.
- We use translucent and high tech polymers, with an excellent optical properties
- Only the best raw material available in the market is used in our glasses











Products and Processes are certified by international accredited bodies. Every batch meets standards for delamination and Ballistic performance.



NATIONAL



SGS ISO 9001:2008 ANSI SAE Z:26



DAYTON UNIVERSITY

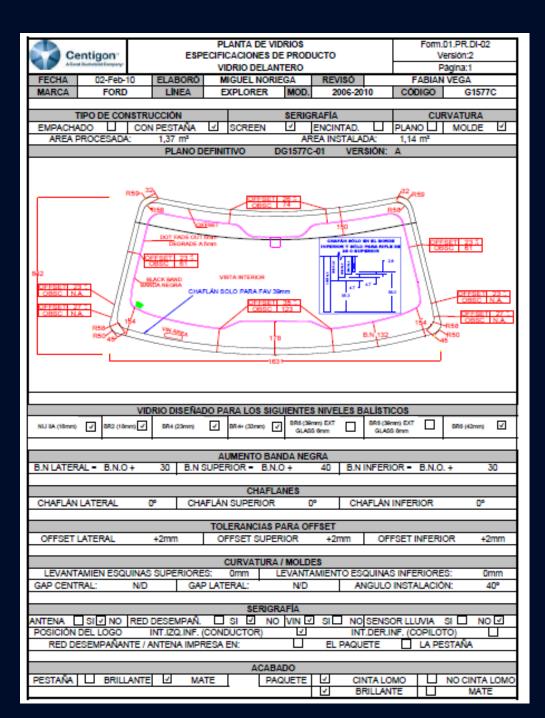


BESCHUSSAMT MELLRICHSTADT



Available Ballistic Constructions

Laboratory	Country	Ballistic level	thicknes. s (mm)	Type of gun	Ammunition	Impacts required	Samples by test
DAYTON UNIVERSITY	USA	NIJ IIA	14	Pistol	9mm / .357 Magnum	5	2
DAYTON UNIVERSITY	USA	BR2	18	Pistol	9mm	3	3
DAYTON UNIVERSITY	USA	NIJ IIIA	19	Pistol	.44 Magnum	5	2
DAYTON UNIVERSITY / BESCHUSSAMT MELLRICHSTADT	USA	BR4	22	Pistol	.44 Magnum	3	3
DAYTON UNIVERSITY	USA	BR4	21	Pistol	.44 Magnum steel Offset	3	3
DAYTON UNIVERSITY	USA	BR4+	33	Rifle	7, 62 X 39mm	3	3
BESCHUSSAMT MELLRICHSTADT	GERMANY	BR 6	39	Rifle	7, 62 X 51mm	3	3
DAYTON UNIVERSITY	USA	BR 6	42	Rifle	7, 62 X 51mm	3	3
DAYTON UNIVERSITY	USA	M193	42	Rifle	5, 56 X 45mm	3	3
DAYTON UNIVERSITY	USA	STANAG II	60	Rifle	7, 62 X 39mm	3	8
DAYTON UNIVERSITY	USA	NIJ IV	70	Rifle	7, 62 X 51mm AP	1	2



Technical Data Sheet





Certified & tested



Extended warranties





Initial

Date

Customer Information



Commitment

Date

RELIABILITY

Centigon takes pride in the promise of superior protection and delivery of your armor package. This promise ensures:

ON TIME DELIVERY – WE know your business depends on it

SHORT LEAD TIMES – Adaptable systems for order processing and delivery

FLEET - deployable order processing – Additional processes and controls added to provide fleet order support



Always on time....

Real Date

<u>Special Projects (Maybach – Bentley - Mercedes)</u>











Affiliated with WCA and ecommerce with 6,476 members in 190 countries, 787 cities and ports worldwide

We notify our clients of current competitive freight rates, priority and scheduled services, as well as full assistance on logistics **Cost effective** solutions for all types of cargo General Cargo DGR / Radio Active Military Cargo Armored Vehicles Out sized Cargo Project cargo Trans shipment Cargo Perishables Emergency relief Consolidation

Logistic Services

✓ Documentation and customs clearance

- √ In-house QA and QC
- √ 3 PL services
- ✓ Door-to-door delivery services
- √ Temperature controlled storage
- ✓ Paperless Logistic support via web-based technology
- ✓ Expert in project handling / Out of gauge cargo handling
- Barcoding / Track by serial number, lot number and/or expiration date
- ✓ Multi country consolidation cargo handling
- √ 24/7 dedicated operations experts
- ✓ Transit facilities Copyright © 2018 ACIGTD FZCO, All rights reserved