



INTRODUCTION

BULLETPROOF GLASS / PANEL / SAFETY GLASS
LAMINATED SAFE GLASS



www.aegispear.com



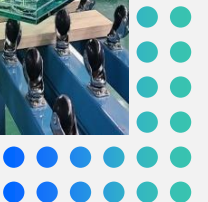
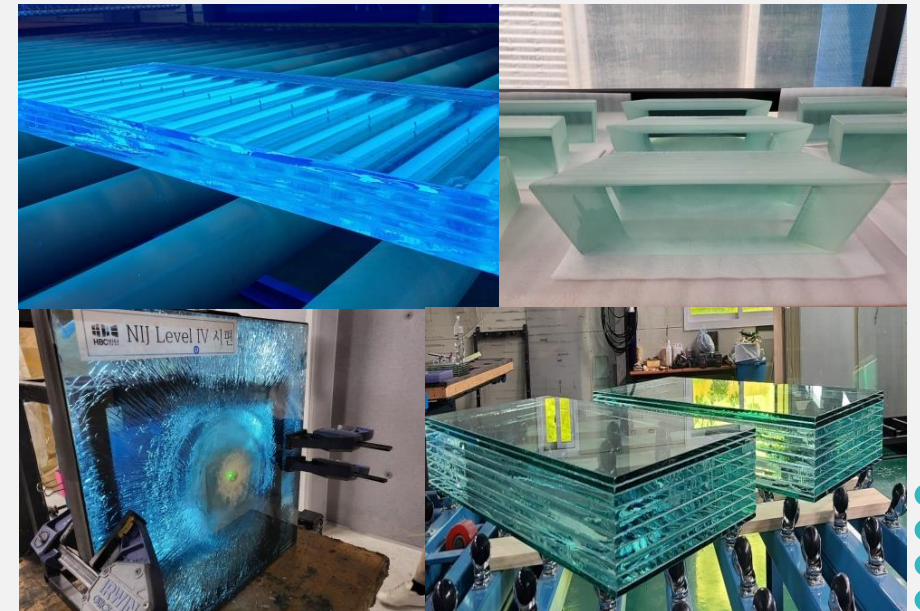
+82-31-373-1303

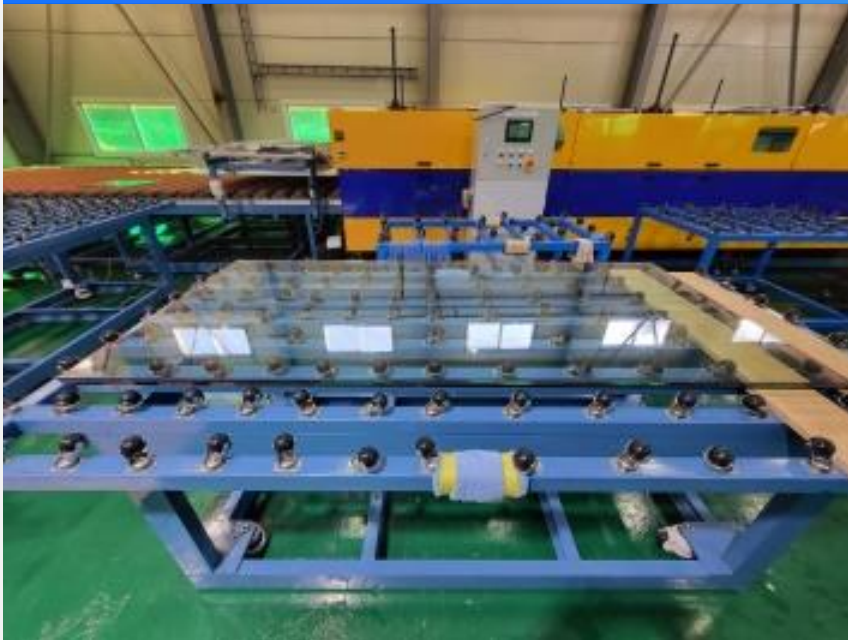


cjh2023@aegispear.com

Hello. We are **AEGISPEAR** with **HBC** .

From the time when bulletproof glass was unfamiliar to the constant research and development, we have achieved the highest performance in producing and distributing bulletproof glass/panels. We manufacture and sell bulletproof glass that meets international standards, rather than typical bulletproof glass, and produce the most ideal bulletproof glass that exhibits optimal performance under any environmental conditions. AEGISPEAR with HBC possesses the unique "RS resin," which is not just any bulletproof glass that anyone can make, but a special type that meets all conditions with the highest performance. We have established factories and equipment lines for mass production, and our experts are always available for detailed discussions to address your inquiries. We produce reliable bulletproof glass that ensures everyone's safety from risks. We are fully prepared to prevent sudden dangers. We are **AEGISPEAR with HBC**.





COMPANY NAME	AEGISPEAR with HBC
COMPANY REGISTER NUMBER	569-30-01301
C E O	Jae Hyun Choi
OFFICE	B-818, Central Ace Tower, 590 Dongtangiheung-ro, Hwaseong-si, Gyeonggi-do
F a c t o r y	581-2 Seokgyo-ri, Mado-myeon, Hwaseong-si, Gyeonggi-do
	Factory 1 – Material storage/management, Factory 2 – Production facility line

600m²

maximum
production per day

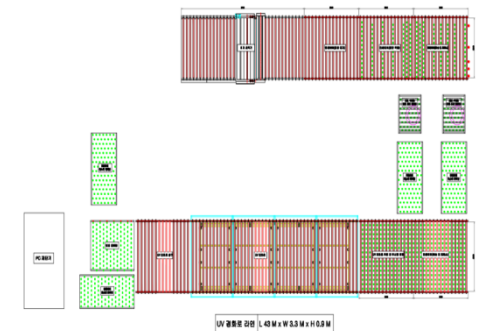
Positive

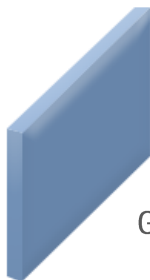
Possibility of small
quantity
production

**4200*
1800**

Maximum production
size

**production line
optimization and
Expansion
planned**

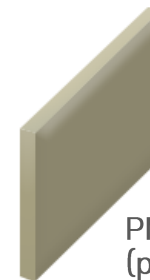
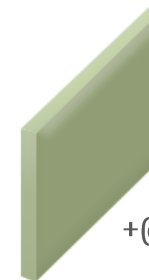




GLASS



RS Resin

PC
(polycarbonate)PMMA
(polymethyl methacrylate)

+@

GG line



GLASS+RN+GLASS multi-ply bulletproof glass

- The standard of the most generalized bulletproof glass
- RN resin bonding, not PVB film bonding.
- High visible light transmittance regardless of thickness.

GP line



The most ideal bulletproof glass using the only RS resin in the world

- GLASS + RS + PC(polycarbonate)
- RS resin is a GLASS + PC bonding developed by AEGISPEAR with HBC. It is a special solution that implements High-performance bulletproof glass that is thin and light at the same level, but exhibits superior performance

Colored Glass



Heat shield Glass



PP line(bulletproof pannel)



RS Bonding using resin Bulletproof products according to special environment and use

- *PC(polycarbonate) + RS + PC
- *PC(polycarbonate) + RS + PMMA(polymethyl methacrylate)
- PC + PC Multi-junction possible.

BP line



Explosion-proof glass GLASS + RS + PC(polycarbonate)

- Bonding system according to explosives.
- Explosion-proof line that compensates for primary damage and secondary damage from explosives when explosives explode

Heating Glass



Heating function + EMI shielding function

- Technical bulletproof glass that complements environmental issues, quick customization according to specifications.
- Combining bulletproof performance with heat and EMI shielding performance.

AEGISPEAR with HBC Bulletproof glass produces the strongest and safest bulletproof glass with our own proven technology

These are key materials for realizing self-developed bulletproof performance and product performance by AEGISPEAR with HBC.

RS Resin

AEGISPEAR's best technology that implements GLASS+PC

Product line: GP line / PP line / BP line / Thermal bulletproof glass

RSC Resin

An essential material for producing high-quality three types of colored glass.

Product Line: Color Glass

RSB Resin

The only core material in Korea that realizes heat shielding glass.

Product Line : Heat shield Glass

RS Resin

Necessary material for GLASS+GLASS multi-junction.

Product line: GG line

AEGISPEAR with HBC Bulletproof glass produces the strongest and safest bulletproof glass with our own proven technology

AEGISPEAR with HBC Technology

GLASS+RS+POLYCARBONATE multiple junction

KEY . 1

RS Resin was developed by AEGISPEAR with HBC.
It is a special solution that realizes GLASS + PC bonding.

KEY . 2

Outstanding performance compared to general G+G multi-joint strength.

KEY . 3

Possession of unrivaled technology that cannot compete with the same

KEY . 4

High chemical resistance/water resistance/heat resistance/cold resistance
It has durability. High, not limited by thickness
Realize visible light transmittance.

POINT

'RS Resin'
The only bulletproof
glass production

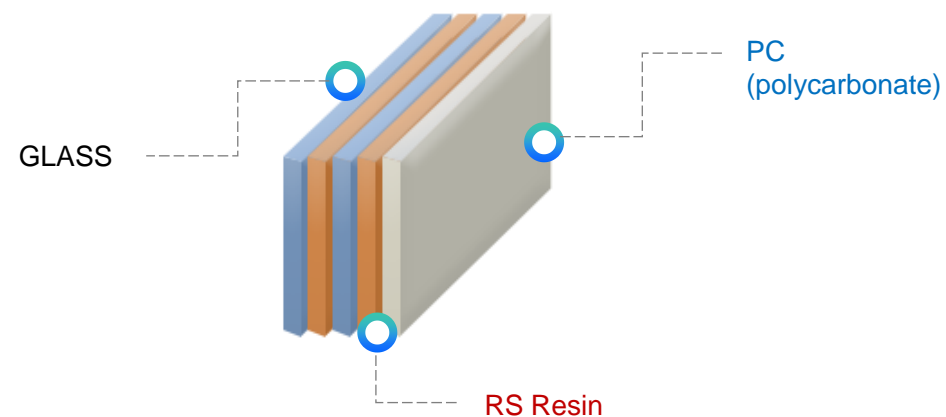
capable of mass
production
Facility line
establishment

NIJ UL752
International report
certification

multiple guns and
bullets
shooting test complete

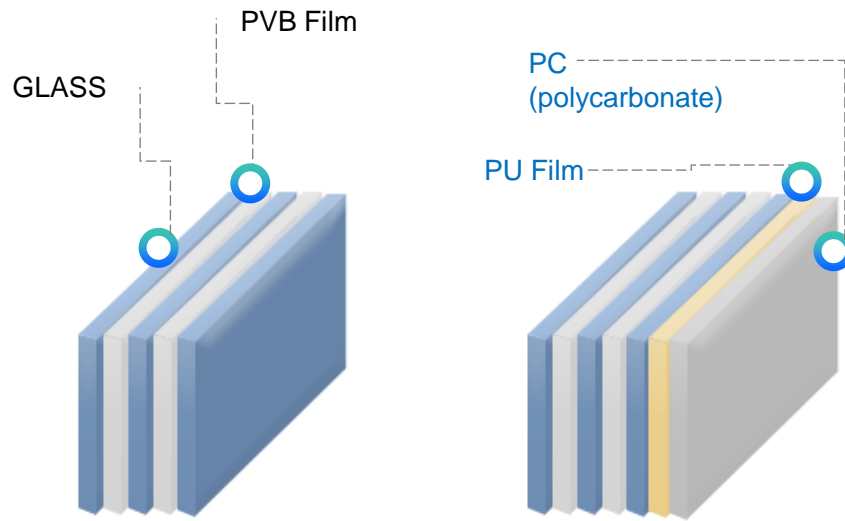
own KNOW-HOW
Establishment of rapid
production response

with continuous
development
Possession of related
patents



AEGISPEAR with HBC Bulletproof glass produces the strongest and safest bulletproof glass with our own proven technology

Other



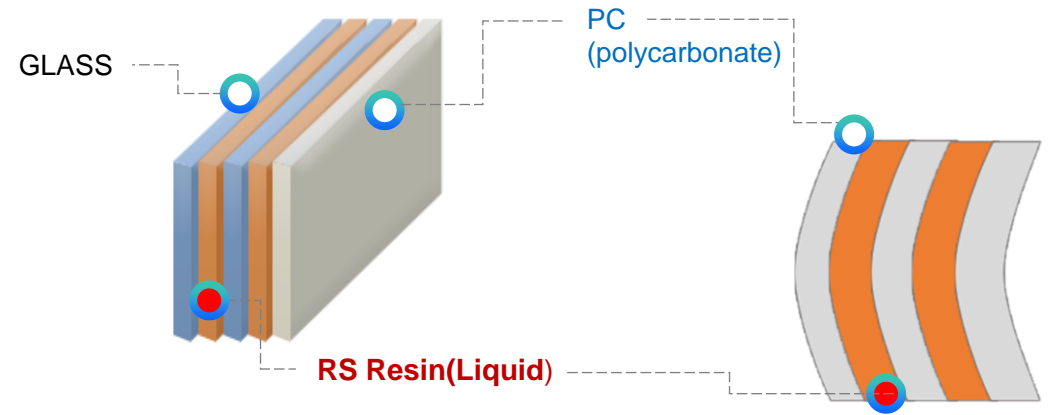
Autoclave

vacuum heat sealing

In the case of Glass+Glass adhesion, there is a risk of internal fragmentation when shooting

- PU Film forms high price by import
- NIJ LEVEL III Correspondence 60mm or more

AEGISPEAR



AEGISPEAR with HBC

RS Resin Curing by AEGISPEAR with HBC

- No concerns about internal fragmentation due to glass + PC bonding
- High productivity / small quantity production possible
- Securing high transparency (over 83%)
- **Applicable to curved shape**
- Fair pricing possible
- NIJ LEVEL III correspondence 38mm

AEGISPEAR with HBC Bulletproof glass produces the strongest and **safest bulletproof glass** with our own proven technology

RS Resing Technology

PC+PC/PMMA
adhesive

GLASS+PC/PMMA
adhesive

RS+HEAT-BLOCKER
(Mixing Technology)

STRONG
adhesive

OPTIMAL DESIGN
New Color mixing

Energy SAVE / SAFE

Curved Bulletproof Glass / Panel(NIJ Lv IIIA)

- 16mm thick curved surface.
- No internal fragmentation when shooting.

- bulletproof helmet / gas mask.
- personal bulletproof vehicle.

Curved Bulletproof Glass / Panel(NIJ Lv IIIA)

- 38mm thick.
- No internal fragmentation when shooting.

- military vehicle / trap.
- protective facility.
- Porch / terrace for private house.

General bulletproof glass / panel(NIJ Lv III)

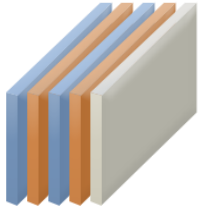
- 50mm thick.

- army truck
- protective facility.

UL 752 (LEVEL1 ~ 8)

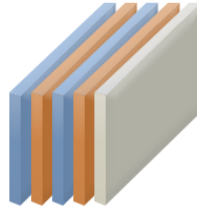
± 3mm

LEVEL 1



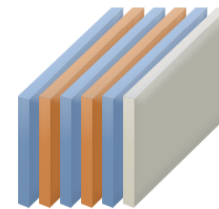
1) G5+G5+PC3
2) G10+PC3
TOTAL 14mm

LEVEL 2



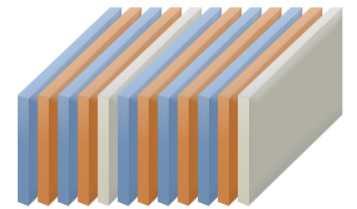
1) G6+G6+PC5
2) G10+PC5
TOTAL 17mm

LEVEL 3



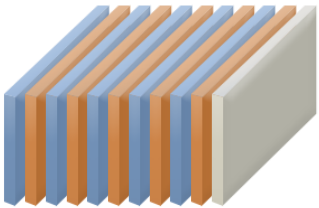
1) G5+G5+G5+PC3
2) G6+G6+PC5
TOTAL 18mm

LEVEL 4



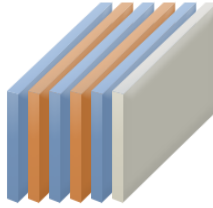
1) G6+G6+PC3+G6+G6+G6+PC3
2) G8+G8+G8+G8+PC5
TOTAL 40mm

LEVEL 5



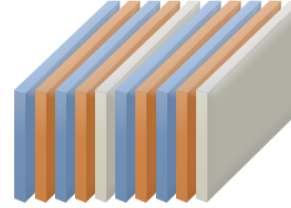
1) G6+G6+G6+G6+G6+PC3
2) G8+G8+G8+G8+PC5
TOTAL 40mm

LEVEL 6



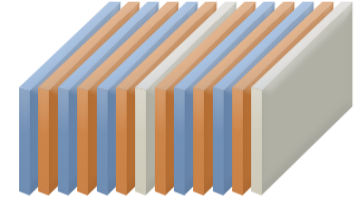
1) G5+G5+G5+PC3
2) G6+G6+PC5
TOTAL 20mm

LEVEL 7



1) G6+G6+PC3+G6+G6+PC3
2) G8+G8+G8+G8+PC3
TOTAL 35mm

LEVEL 8



1) G8+G8+G8+PC3+G8+G8+PC3
TOTAL 50mm

“Possession of Korea’s only RSB resin for bonding heat shielding glass”

Heat shield glass **EI** Block flame/toxic gas/smoke/**radiant heat**

It blocks flame, smoke, and various toxic gases generated in case of fire, as well as radiant heat.

By blocking it, it prevents the spread of fire and helps people evacuate flexibly.

Our AEGISPEAR with HBC's heat-insulating glass does not depend on imports.

Manufactured using self-developed RSB resin.

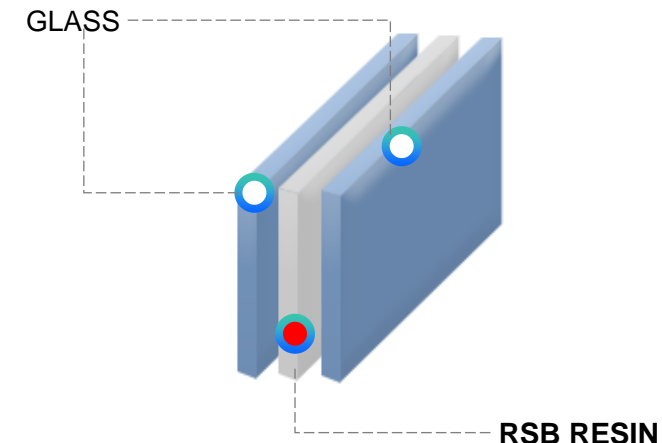
- It is possible to secure a view that can be evacuated through transparent glass rather than a general firewall.
- Ability to adequately block the temperature of about 1000℃ in case of fire
- Interior design can be secured for spaces that require a sense of openness
- Securing safe evacuation time by blocking flame/toxic gas/smoke/radiant heat for more than 60 minutes.
- In case of breakage, it is safe because the glass does not scatter under the influence of RSB resin.

Non-heat shield glass **E** Block flame/toxic gas/smoke



RSB RESIN – Liquid bonding resin that realizes thermal insulation performance

- Own developed AEGISPEAR with HBC Technology (domestic self-production)
- 60 min / 90 min / 120 min Thermal insulation performance



AEGISPEAR with HBC Patent holding

- We produce the most ideal color glass/color bulletproof glass that is differentiated.
- By mixing high-spec paint with RSC resin, it shows a clear color with clear transparency.

TYPE . 1 GLASS + RSC resin(Paint MIX) + GLASS = clear and clean.

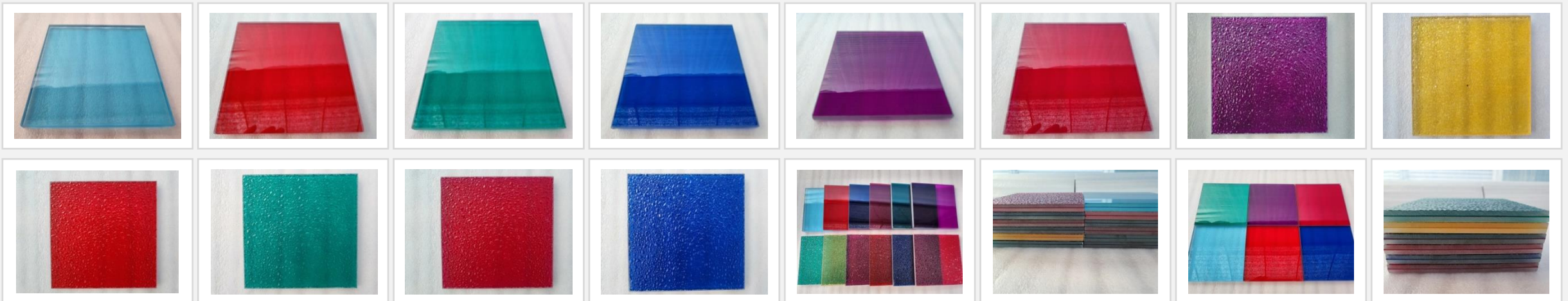
TYPE . 2 GLASS + RSC resin(Paint MIX) + PEARL + GLASS = Subtle and luxurious.

TYPE . 3 GLASS + RSC resin(Paint MIX) +prism + GLASS = Special that depends on the angle.

- Applicable to all specifications.
- Can be made in any color you require.

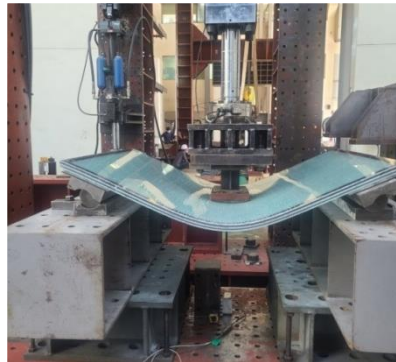
architectural
interior

Beautiful
special
bulletproof glass



GP LINE GLASS + RS + PC (POLYCARBONATE)

AEGISPEAR with HBC Patent holding



Bulletproof glass load test for skywalk

- SIZE – 1471 * 1157 * 30 (Thickness 30mm)
- Point of support 2 points – About 3ton pressure(Approx. 7ton when supported in 4 places)
- Maintain original shape after breakage, not crushing
- Confirmation of restoration after a certain period of time has elapsed after damage

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近期新聞

▲ 香港貿易發展局主辦「2014年香港國際貿易發展局貿易展」
 香港貿發局主辦的「2014年香港國際貿易發展局貿易展」將於2014年11月13日至15日在維多利亞港畔的香港會議展覽中心舉行。歡迎各界人士踴躍參加。

詳情請電：(852) 2538 8888 或瀏覽：
<http://www.tradingchina.org.hk>

香港貿發局 貿易展 2014
 2014年11月13日至15日
 香港會議展覽中心



香港貿易發展局
 Trade Development Council

▲ 香港貿易發展局主辦「2014年香港國際貿易發展局貿易展」



香港貿易發展局
 Trade Development Council





YONG CHIP (S) LIMITED

香港貿易發展局

YONG CHIP (S) LIMITED

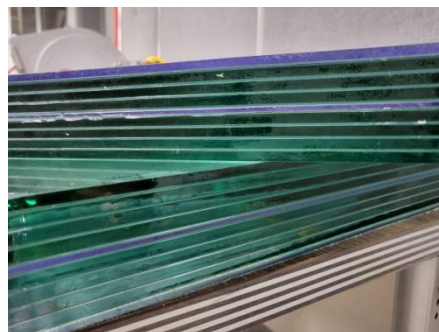
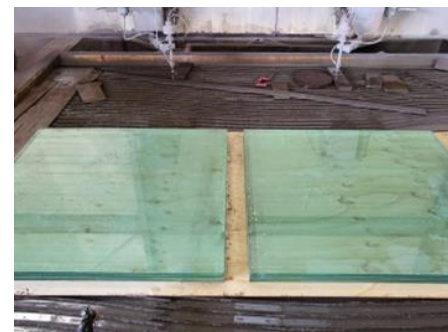
香港貿易發展局

[illegible][illegible]

GP LINE GLASS + RS + PC (POLYCARBONATE)



- Bulletproof glass using PC with tensile strength 250 times stronger than glass
- Even if the tempered glass is damaged by the primary blow of a hard material such as stone or tree due to strong flooding, the bulletproof panel (PC 250 times stronger than glass), which is the secondary defense, is not damaged and prevents water pressure damage by blocking the impact of the material being hit keep function
- Maintain original shape after breakage, not crushing
- Confirmation of restoration after a certain period of time has elapsed after damage
- The laminated structure is tempered glass 10mm + RS resin 1mm + PC5mm + RS resin 1mm + tempered glass 10mm = 27mm total thickness of bulletproof laminated glass to prevent water pressure damage



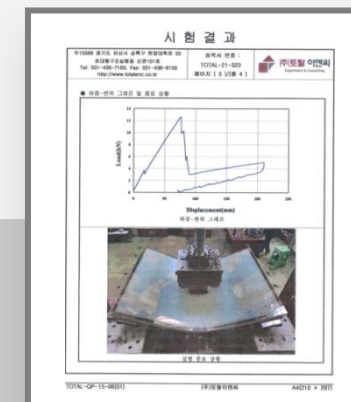
시험 성적서

주요사항: 본 시험은 한국건설기술연구원 (KICT)에서 수행되었습니다. 시험대상: 본 시험은 한국건설기술연구원 (KICT)에서 수행되었습니다. 시험일자: 2021. 10. 27

시험 항목	시험 결과	시험 방법	시험 장비	시험 장소
시행 목적	본 시험은 한국건설기술연구원 (KICT)에서 수행되었습니다.	본 시험은 한국건설기술연구원 (KICT)에서 수행되었습니다.	본 시험은 한국건설기술연구원 (KICT)에서 수행되었습니다.	본 시험은 한국건설기술연구원 (KICT)에서 수행되었습니다.
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2021. 10. 27

(주)토달이엔씨 대표이사



발행처: 부산광역시 / 미진로 / piece408 / 2020-02-09 09:33:46

시험 성적서

(주)삼양테크 방탄시험소 성적서번호 : 2022-E-BTRS-0058
경기도 안성시 공단로 81 페이지 (4) / (총 4)
TEL : 070) 4677-6743 FAX : 031) 673-7161




○ 시험대상 품목

○ 시 료 명 : 방탄유리	○ 재 질 : 유리
○ 시료수량 : 1 개	○ 크 기 : (598 × 600) mm
○ 시료번호 : HBC Sample #3	○ 무 게 : 48 080 g
○ 로트번호 : 202212_03	○ 두께 : 62.87 mm

○ 시험결과

순 번	추진체 (g)	속 도 (m/s)	관통여부 (PP / CP)	비 고
1	3.12	840.0	PP	-
2	3.12	841.8	PP	-
3	3.12	840.5	PP	-
4	3.11	845.3	PP	-
5	3.12	854.9	PP	-

시료 사진






특이사항

• 기준탄속 : (838 ± 15) m/s
• 기준탄속 5발 관통여부 확인

본

BT-P-16-F04 Rev_A (주)삼양테크 방탄시험소 2020. 02. 19.

발행처: 부산광역시 / 미진로 / piece408 / 2020-02-09 09:33:46

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TEL : 070) 4677-6743 FAX : 031) 673-7161




○ 시험대상 품목

○ 시 료 명 : 방탄유리	○ 재 질 : 유리
○ 시료수량 : 1 개	○ 크 기 : (600 × 600) mm
○ 시료번호 : HBC Sample #2	○ 무 게 : 48 100 g
○ 로트번호 : 202212_02	○ 두께 : 62.74 mm

○ 시험결과

순 번	추진체 (g)	속 도 (m/s)	관통여부 (PP / CP)	비 고
1	3.12	844.1	PP	-
2	3.11	846.8	PP	-
3	3.12	849.4	PP	-
4	3.11	847.3	PP	-
5	3.12	846.7	PP	-

시료 사진






특이사항

• 기준탄속 : (838 ± 15) m/s
• 기준탄속 5발 관통여부 확인

본

BT-P-16-F04 Rev_A (주)삼양테크 방탄시험소 2020. 02. 19.

발행처: 부산광역시 / 미진로 / piece408 / 2020-02-09 09:33:46

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경기도 안성시 공단로 81 페이지 (2) / (총 4)
TEL : 070) 4677-6743 FAX : 031) 673-7161




○ 시험대상 품목

○ 시 료 명 : 방탄유리	○ 재 질 : 유리
○ 시료수량 : 1 개	○ 크 기 : (598 × 600) mm
○ 시료번호 : HBC Sample #1	○ 무 게 : 47 460 g
○ 로트번호 : 202212_01	○ 두께 : 61.79 mm

○ 시험결과

순 번	추진체 (g)	속 도 (m/s)	관통여부 (PP / CP)	비 고
1	3.12	845.6	PP	-
2	3.12	838.7	PP	-
3	3.12	850.8	PP	-
4	3.12	849.9	PP	-
5	3.12	850.9	PP	-

시료 사진






특이사항

• 기준탄속 : (838 ± 15) m/s
• 기준탄속 5발 관통여부 확인

본

BT-P-16-F04 Rev_A (주)삼양테크 방탄시험소 2020. 02. 19.

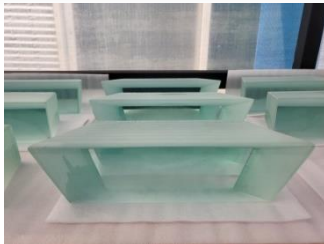
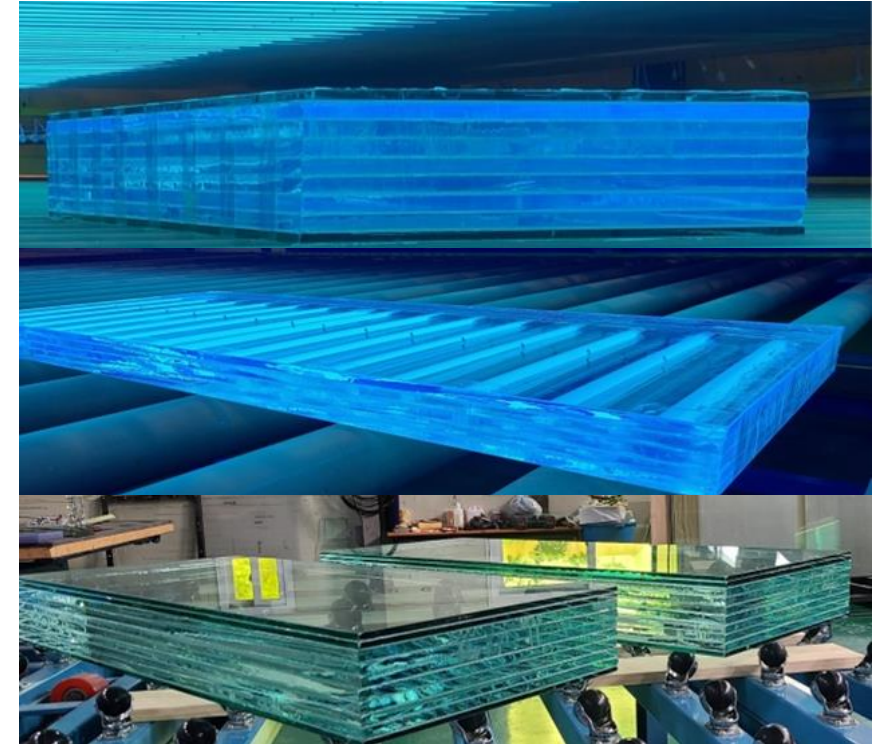
KORAS Certification (주)Samyang tech
Temp(lowest/highest) : 21.8°C / 22.2°C
Humanity(lowest/highest) : 48%R.H. / 52%R.H.

- test standard : NIJ Standard 0108.01 : 1985
- caliber / ammunition: 7.62 mm KM80
- warhead weight: 9.7g

- test guns : 7.62 X 51 NATO
- Checking plate material / thickness : Al2024 / 0.5 mm

KOREA & GLOBAL

- **GLOBAL** – ASIA “K” NATION VIP bulletproof glass – **GP**
- **GLOBAL** – “T” NATION VIP Train - **GP**
- **GLOBAL** – ASIA “INDONESIA” anti-terrorism shield bulletproof glass – **GP**
- **GLOBAL** – ASIA “THAILAND” the National Police Agency riot control vehicle – **GP**
- **GLOBAL** – ASIA “INDONESIA” armored car bulletproof glass – **GP**
- K-9 self-propelled gun / K55 Armored vehicle observation window bulletproof glass - **GP**
- EVERLAND Safari ferris wheel bulletproof glass - **GP**
- Excavator for removing anti-tank mines in Gangwon-do - **PP**
- Battery Factory Electric Forklift Bulletproof Pane I- **PP**
- Excavator bulletproof panel for rock crushing - **PP**
- Excavator bulletproof panel for mine removal – **PP**
- Many other discussions and ongoing



■ A program that proceeds from plant establishment, production, and technology transfer of AEGISPEAR with HBC worldwide.

- Conduct production management for production/distribution in the country and promote joint development of new products suitable for the situation.
- Introduction of qualification system for exclusive sales.
- Manpower input for initial facility and production/technology transfer production management.
- Active support from head office to strengthen competitiveness .
- Please contact us by email for more information. CJH2023@AEGISPEAR.COM

GLOBAL NETWORK

A E G I S P E A R
W i t h
H B C





THANK YOU



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