



# INTRODUCTION

**BULLET PROOF GLASS / PANEL / SAFETY GLASS**  
LAMINATED SAFE GLASS



[www.aegispear.com](http://www.aegispear.com)



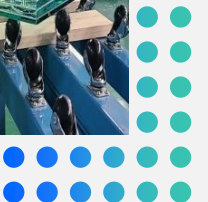
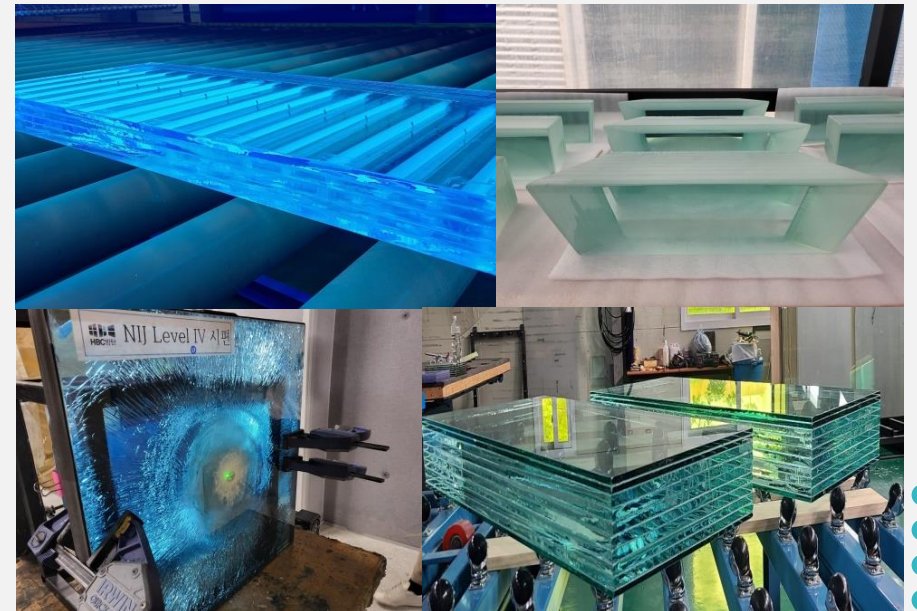
+82-31-373-1303

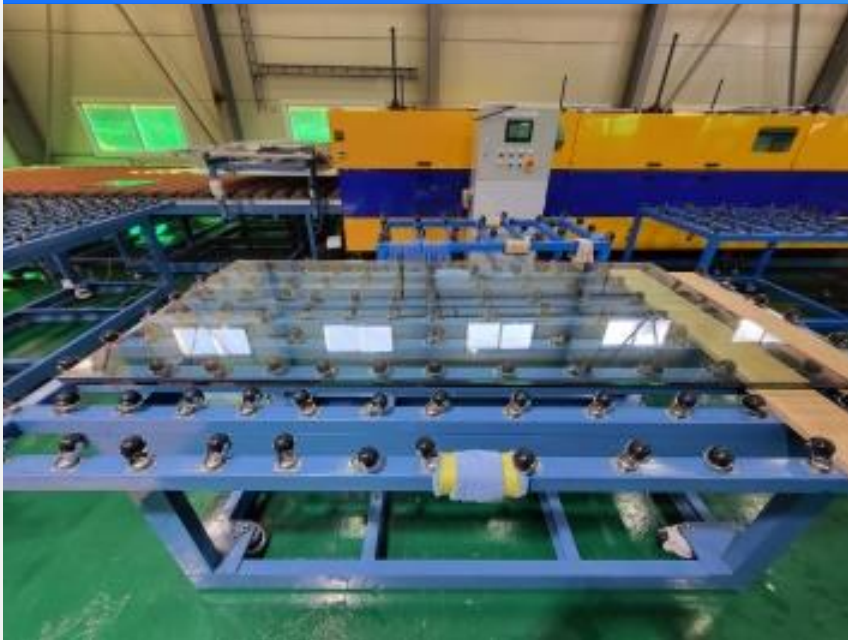


[cjhcyj@gmail.com](mailto:cjhcyj@gmail.com)

# 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	801, Building B of Prugio City Works, 11, Dongtan Circulation-daero 1-gil, Hwaseong-si, Gyeonggi-do, Republic of Korea
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

**600m<sup>2</sup>**

maximum  
production per day

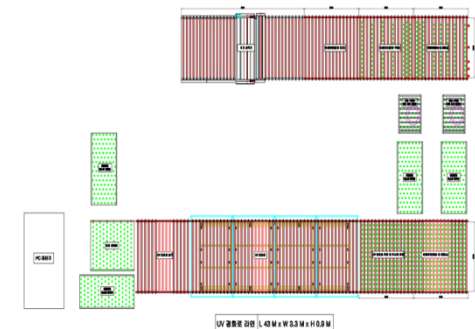
**Positive**

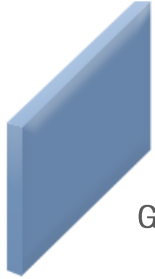
Possibility of small  
quantity  
production

**4200\*  
1800**

Maximum production  
size

**production line  
optimization and  
Expansion  
planned**

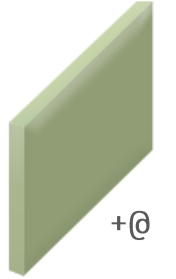




GLASS



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

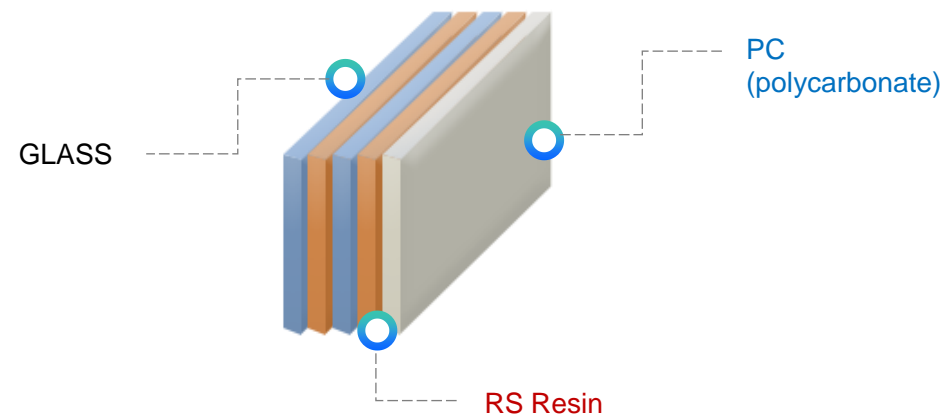
capable of mass production  
Facility line establishment

NIJ UL752  
International report certification

multiple guns and bullets  
shooting test complete

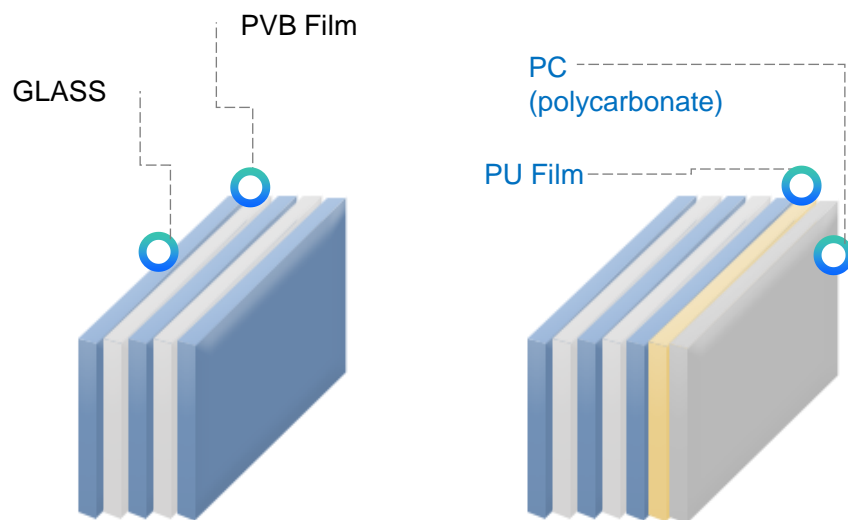
own KNOW-HOW  
Establishment of rapid production response

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



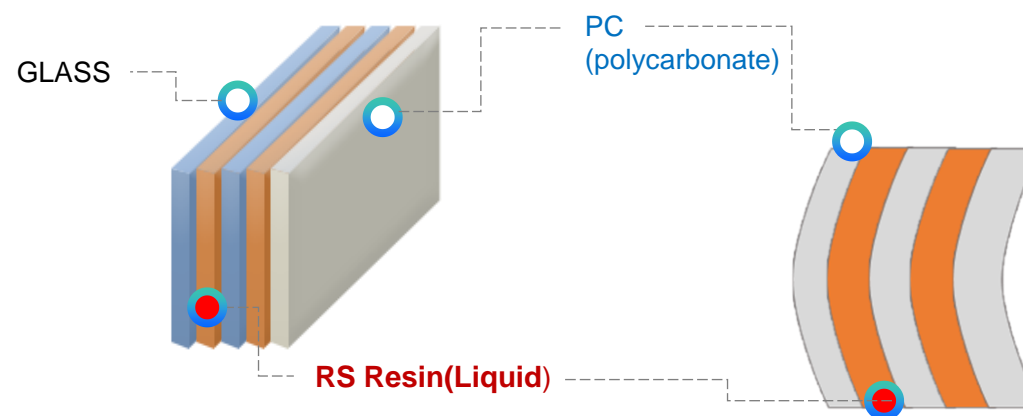
### Autoclave

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)**

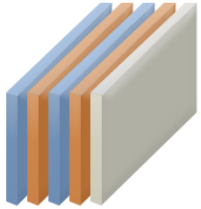
- 50mm thick.

- army truck
- protective facility.

## UL 752 ( LEVEL1 ~ 8 )

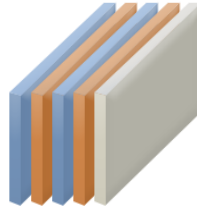
± 3mm

### LEVEL 1



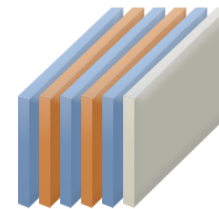
1) G5+G5+PC3  
2) G10+PC3  
TOTAL 14mm

### LEVEL 2



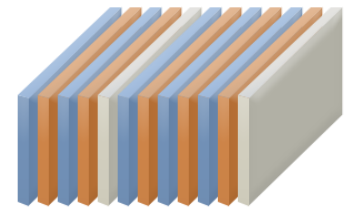
1) G6+G6+PC5  
2) G10+PC5  
TOTAL 17mm

### LEVEL 3



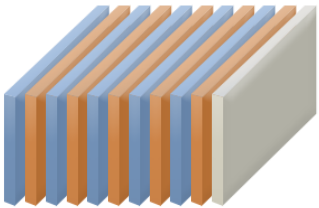
1) G5+G5+G5+PC3  
2) G6+G6+PC5  
TOTAL 18mm

### LEVEL 4



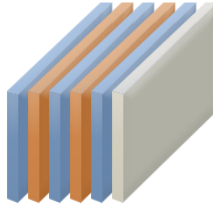
1) G6+G6+PC3+G6+G6+G6+PC3  
2) G8+G8+G8+G8+PC5  
TOTAL 40mm

### LEVEL 5



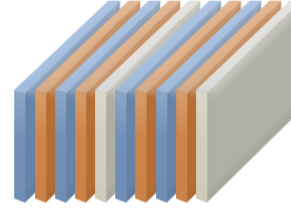
1) G6+G6+G6+G6+G6+PC3  
2) G8+G8+G8+G8+PC5  
TOTAL 40mm

### LEVEL 6



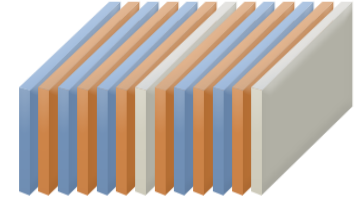
1) G5+G5+G5+PC3  
2) G6+G6+PC5  
TOTAL 20mm

### 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.

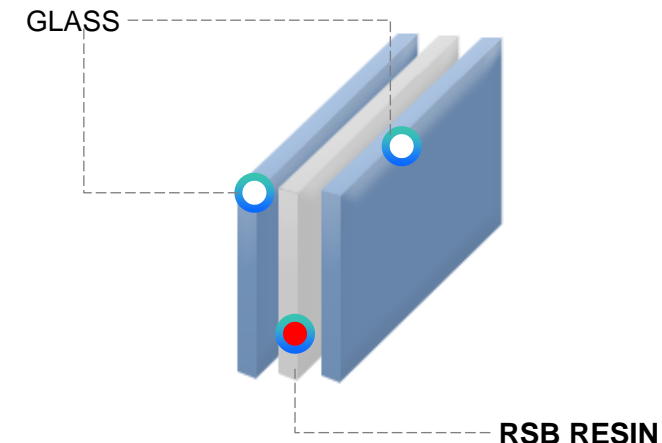
- It is possible to secure a view that can be evacuated through transparent glass rather than a general firewall.
- Ability to adequately block the temperature of about 1000℃ in case of fire
- Interior design can be secured for spaces that require a sense of openness
- Securing safe evacuation time by 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.

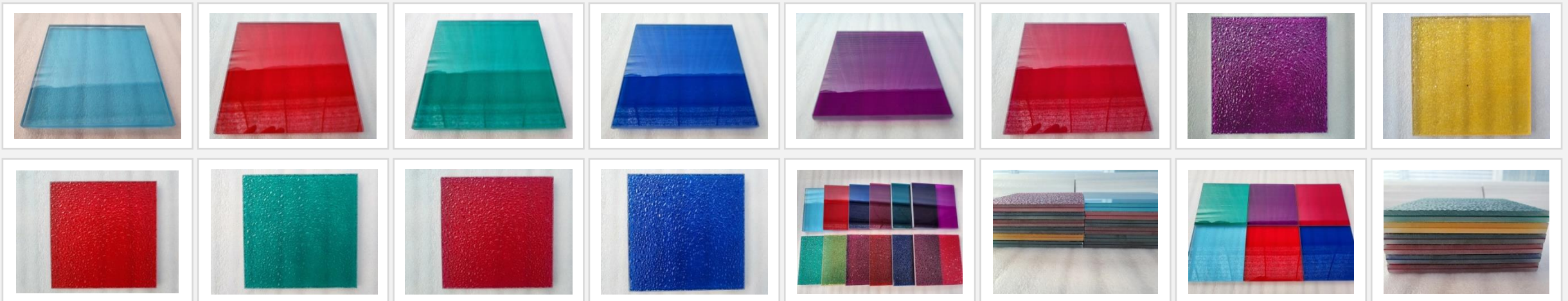
**TYPE . 2** GLASS + RSC resin(Paint MIX) + PEARL + GLASS = Subtle and luxurious.

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

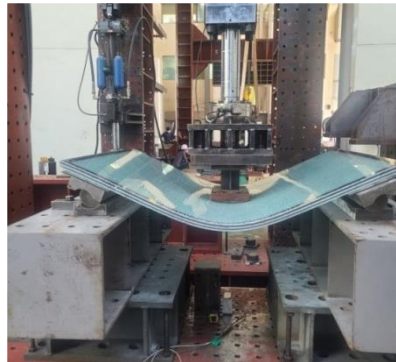
- Applicable to all specifications.
- Can be made in any color you require.

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

**시험 성적서**

주요사항: 본시험은 한국건설기술연구원(KICT)에서 실시된 시험 결과에 따라 수행되었습니다. 시험결과에 대한 문의는 본시험을 주관한 기관에 연락하십시오.

시험일자: 2021. 09. 27

시험장소: (주)도달이엔씨

시험대상: GP LINE GLASS + RS + PC (POLYCARBONATE)

시험결과: 시험결과에 대한 상세한 내용은 시험보고서를 참조하십시오.

(주)도달이엔씨 대표이사

**시험 결과**

시험일자: 2021. 09. 27

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(주)도달이엔씨 대표이사

**시험 결과**

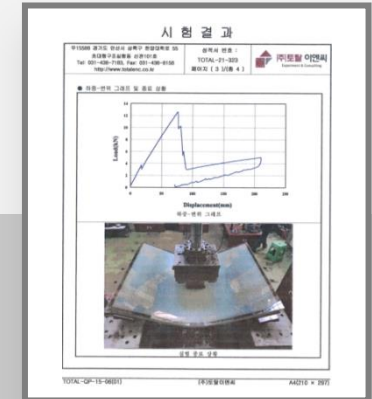
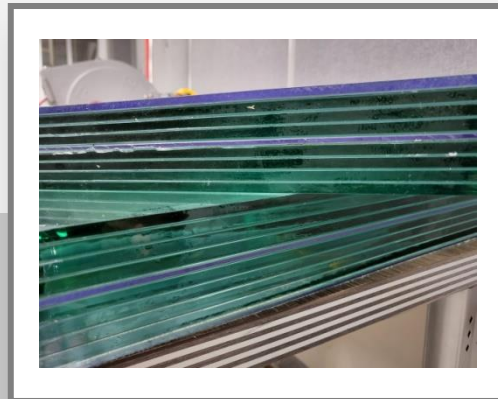
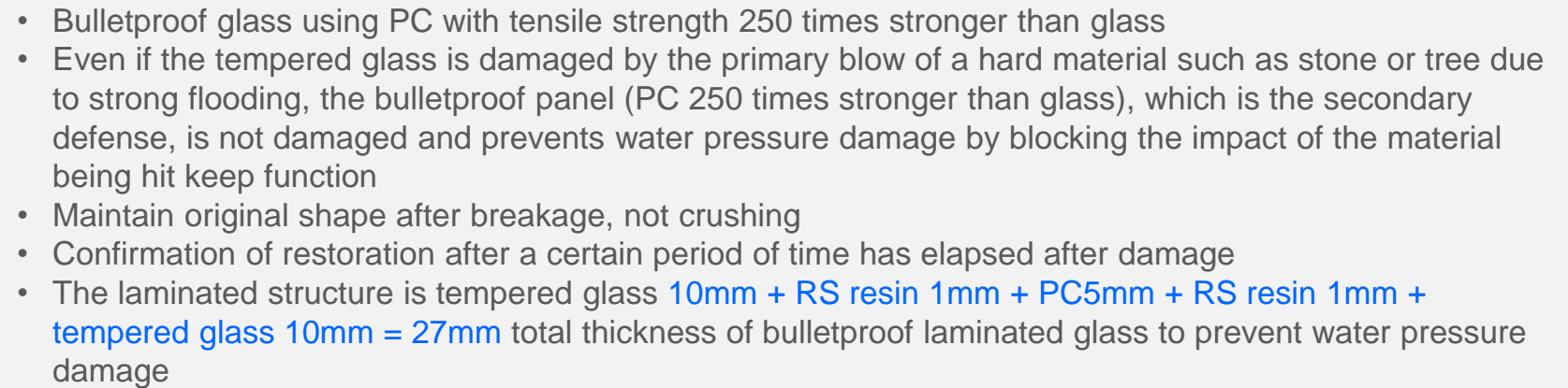
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(주)도달이엔씨 대표이사



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

## 시험 성적서

(주)삼양컴텍 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	주진폭 (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

관

BT-P-16-F04 Rev\_A    (주)삼양컴텍 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	주진폭 (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

관

BT-P-16-F04 Rev\_A    (주)삼양컴텍 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	주진폭 (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

관

BT-P-16-F04 Rev\_A    (주)삼양컴텍 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



## AEGISPEAR'S New Shooting Test for October 2023

TEST REPORT					
[ 433 Company] 433-1, Bongsong-ro (Chilgok-gil) Songjeong- myeon-Paju-si, Gyeonggi-do, Republic of Korea Tel. 433-11-1444 Fax. 433-11-1444		Test Report No. 2023-1004-003-41 Issued Date 2023-10-17 Page No. 2 / 2			
					
1. Sample Info					
Sample Name	ACQUADRIE SP-1000	Sample Lot	100-072321 + 100-072329		
Size / Thick	200*100 cm / 1.8 mm	Weight (g)			
Material	Glass + PE	Encrustation	Alch		
Sample Type	Glass	Condition	As-received		
2. Test Setup					
Test Type	K/L Test	Standard	ISO 9712-0108-01 LUKA		
Oblique	0°	Wavelength (nm)	2524 T3 5.57		
Test Beam	100*100 mm	Test Programme (Setting)	P30 10.0 0.0		
Env. Humidity	40% RH ± 5%	Measuring	3.0 m		
Beam / Sensor / Target Distance	Beam To Sensor 1	Sensor 1 To 2	Sensor To Target		
	2.2 m	1.5 m	3.0 m		
Testing Temp (°C)	22.0 ± 0.1 °C	Humidity (%)	45 ± 0.5 % RH		
Test Job No.		KC-221017-0034			
3. Test Result					
Order No.	Location	Measured Value (mV)	Result	SPC (mm)	Pass Rate
1	#1	0.1	<0.03	pass	0.00
2	#2	0.1	<0.03	pass	0.00
3	#3	0.1	<0.03	pass	0.00
4	#4	00.1	<0.03	pass	0.00
5	#5	00.1	<0.03	pass	0.00
3. SP 202307 production - CP / Company Admission					
Test Result / Special Note					

2023-10-17 (PM)

2023-10-17 (PM)

AEGISPEAR		AEGISPEAR		AEGISPEAR	
<b>TEST REPORT</b>					
<b>[40] Company</b> 40 S. Kensington Rd. Singapore 115081 Email: info@ae.com.sg   Phone: 65 6334 1888		<b>Test Report No.</b> 2023-1004-031-42		<b>Report Date</b> 23-10-17	
<b>Project No.</b> 2		<b>Page No.</b> 2		<b>Page No.</b> 2	
<b>1. Sample Info</b>					
<b>Sample Name</b>	AEGISPEAR SPYGLASS		<b>Sample Lot</b>	H01-07003-1 H010-0300	
<b>Size / Truck</b>	Ø190mm x 145mm		<b>Weight (g)</b>	N/A	
<b>Material</b>	Glass + PC		<b>Environment</b>	Ambient	
<b>Sample Type</b>	Glass		<b>Condition</b>	Ambient	
<b>2. Test Setup</b>					
<b>Test Type</b>	N/A Test		<b>Standard</b>	MSD-070-010-011 LoA	
<b>Height</b>	0.1"		<b>Witness Photo</b>	2024-10-17-031	
<b>Test Speed</b>	0.1mm/min		<b>Test Program (Image)</b>	750mm (Image) 0.03g	
<b>Ring Velocity</b>	0.00175 m/s		<b>Distance</b>	0.03 m	
<b>Name / Sensor / Target</b>	<b>Name To Sensor 1</b>	<b>Sensor 1 - 2</b>	<b>Sensor To Target</b>		
<b>Distance</b>	0.1m	0.1 m	0.8 m		
<b>Testing Temp (°C)</b>	22.0 ± 0.5 °C		<b>Humidity (%)</b>	30 ± 5 (N, S, A)	
<b>Site Job Info</b> H01-07003-1 Q003					
<b>3. Test Result</b>					
<b>Site No.</b>	<b>Location</b>	<b>Altitude (°)</b>	<b>Measured Value</b>	<b>Pass</b>	<b>MPD (mm)</b>
1	#1	0.1"	0.0136	PP	0.00
2	#2	0.1"	0.0137	PP	0.00
3	#3	0.1"	0.0136	PP	0.00
4	#4	0.1"	0.0137	PP	0.00
5	#5	0.1"	0.0137	PP	0.00
0.1" = 2.54mm precision (0.1" = 2.54mm precision)					
<b>4. Test Result / Special Note</b>					

		Test Report No.		2023-1004-035-43	
		Revision No.		43.10.17	
(KQI Company) 40-8 Bongeom-ro, Euiwang-gu / Seongnam Metropolitan City, Gyeonggi-do Republic of Korea Tel : 031-350-1001 Fax : 031-350-1002					
<b>1 Sample Info</b>					
Sample Name	HMI Submerged Valve	Sampert Lot	HMI-0720A / HMI-0720B		
Size / Thick	ØP100 mm x 14 mm	Weight (g)			
Material	Steel = FC	Element	N/A		
Sample Type	None	Condition	Assemble		
<b>2 Test Setup</b>					
Test Type	B/A Test	Standard	ISO 5129-01B-01 Lat		
Chamber	0°	Witnessing Place	2023 TR 5.17		
Test Barrel	Ø1.5x25.1mm	Test Program / Integrator	20-08-027 ver.01.01.01		
Ring Velocity	1425(175) m/s	Strikes	0.07kg		
Actual - Sensor - Target Distance	0.2 mm	Sensor 1 - 2	Sensors To Target		
		0.2 mm	0.8 - 4m		
Testing Temp (°C)	(22 ± 0.5) °C	Humidity (%)	(65 ± 2) % R.H.		
Head File No.	KC-210101-Q008				
<b>3 Test Result</b>					
Shot no	Location	velocity*	Mitigated Vids	Result	MPD points
1	#1	0.7	075.BA	PP	0.00
* MP: Effective penetration; BA = Complete Penetration					
<b>4 Test Remarks / Special Note</b>					

KQI-QR-TR-02008

제출일자/시간: 2023.10.17 14:00

NIJ-STD-0108.01 5.3 (LV 3A)

**★PASS**

AEGISPEAR MODEL.GP  
Thick. 18mm (Glass + PC)  
Test Ammo . 9mm FMJ (8.0g)

## NIJ-STD-0108.01 5.3 (LV 3)

**★PASS**

AEGISPEAR MODEL.GP  
Thick. 45mm (Glass + PC)  
Test Ammo . 7.62 KM80 (9.6g)

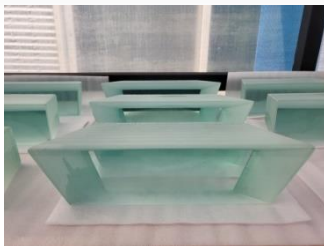
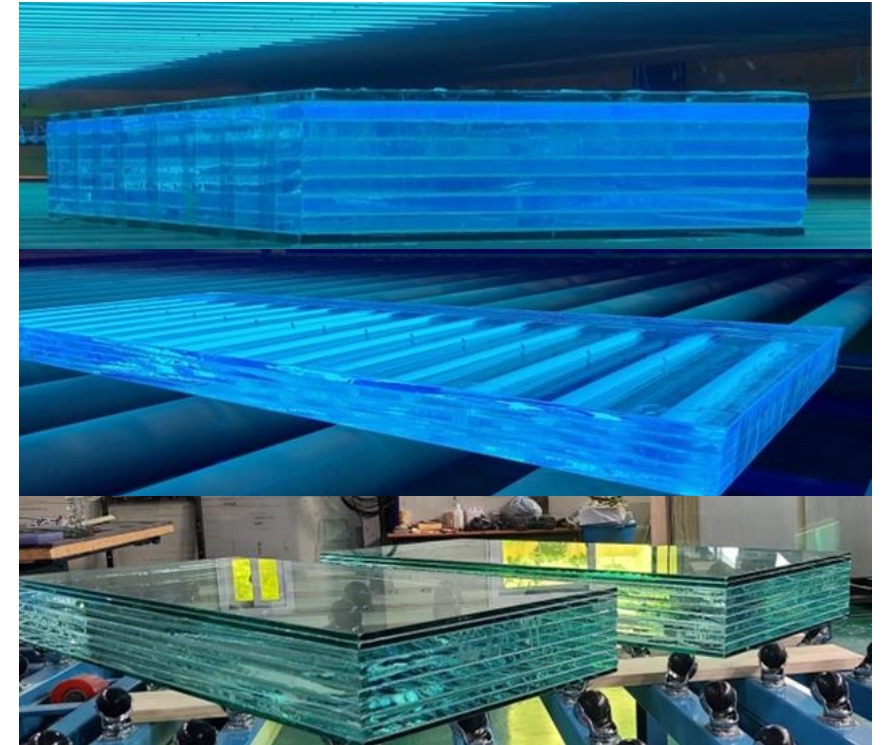
## NIJ-STD-0108.01 5.3 (LV 4)

**★PASS**

AEGISPEAR MODEL.GP  
Thick. 56mm (Glass + PC)  
Test Ammo . 30-06 M2 AP (10.8g)

## 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](mailto: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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