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## Rheinmetall Ballistic Protection GmbH, Armor Protection Ballistic Resistance Test

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Prepared by:

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### ***NTS-Chesapeake Testing***

*4603B Compass Point Road  
Belcamp, MD 21017*

**10 January 2018**

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Rheinmetall Ballistic Protection GmbH, January 2018.***

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# BALLISTIC RESISTANCE TEST

## NTS-Chesapeake Testing

4603B Compass Point Road  
Belcamp, MD 21017

Client: Rheinmetall Ballistic Protection GmbH  
Job No.: 21124-002  
Test Date: 1/10/2018

### Test Panel

Description: Steel Plate

Manufacturer: Rheinmetall Ballistic Protection GmbH

Sample No.: Back

Size: 10.00 x 14.00 in  
Avg. Thick: NA  
Thickness: NA

Weight: 6.89 lbs  
Plies/Laminates: NA

Date Received: 11/27/2017  
Via: DHL  
Returned: DHL

### Setup

Shot Spacing: Customer request  
Witness Panel: Clay  
Backing Material: 5.5-in clay/plywood  
Condition: Ambient

Primary Vel. Screens (ft): 6.500, 6.833,  
11.166, 11.500  
Primary Vel. Location (ft): 9.000  
Range to Target (ft): 17.200  
Target to Witness (in): 0.000

Range No.: 5  
Temp: 64.0 °F  
BP: 30.3 inHg  
RH: 46.8%  
Barrel/Gun: CT-3090  
Gunner: Bret DeMond  
Recorder: Tony Contreras

### Ammunition

Projectile	Lot No.	Powder
(1) 9-mm, 124-grain FMJ	Remington 23558 Speer B02X FNH USA	Accurate No. 2
(2) .44-mag., 240-grain SJHP		Accurate No. 5
(3) 5.7 x 28-mm, 27-grain SS195 LFHP		Accurate No. 2

### Applicable Standards or Procedures

- (1) NIJ-STD-0101.06 Level IIIA (Modified)
- (2) Customer request

Shot No.	Ammo	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Deformation (mm)	Obliq. (°)	Footnotes
1	1	124.1	3675	1361	3189	1359	1360	None	2.91	0.0	
2	1	124.0	3768	1327	3270	1325	1326	None	2.9	0.0	
3	1	124.2	3781	1322	3281	1321	1322	None	3.7	0.0	
4	2	240.0	3487	1434	3027	1431	1433	None	14.6	0.0	
5	2	240.1	3485	1435	3021	1434	1435	None	1.0	0.0	
6	2	240.3	3468	1442	3010	1440	1441	None	2.4	0.0	
7	3	27.4	2340	2137	2034	2130	2134	None	0.0	0.0	
8	3	27.2	2236	2236	1942	2231	2234	None	0.0	0.0	
9	3	27.1	2331	2145	2025	2140	2142	None	0.0	0.0	

Remarks:

Footnotes: