



POC: Mr. Richard Grieves
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Test Date: 3/21/2016
Job No.: 2784-001

**ASAP Walls, Inc.
15-Minute Forced Entry and
Ballistic Resistance Test**

Prepared by:

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Chesapeake Testing

*4603B Compass Point Road
Belcamp, MD 21017*

21 March 2016

*Further dissemination only as directed by
ASAP Walls, Inc., March 2016*

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ASAP WALLS, INC., PROPRIETARY INFORMATION

1 Introduction

ASAP Walls, Inc. provided one wall system to Chesapeake Testing Services, Inc. (CTS) for Forced Entry/Ballistic Resistance (FE/BR) testing on 21 March 2016. All testing was conducted in accordance with (IAW) SD-STD-01.01 Revision G (Amended), dated 30 April 1993. This is a two part report. Section 2 is the Ballistic Resistance Test report. Section 3 is the Forced Entry Test report.

2 Ballistic Resistance Testing

Ballistic resistance testing was conducted on the wall system IAW Section 3.2, Ballistic Testing, of SD-STD-01.01 Revision G (Amended). Per the test standard, all dissimilar areas of the wall system were tested including opaque areas, seams, and edges.

2.1 Threats and Instrumentation

2.1.1 Threats*

- 7.62 x 51-mm, 149-grain M80 full metal jacketed (FMJ) projectiles.
- 5.56 x 45-mm, 55-grain M193 ball projectiles.
- 5.56 x 45-mm, 62-grain M855 ball projectiles.

*All projectiles were fired from a universal receiver which was fitted with the appropriate barrel and mounted on a Chesapeake Testing mount.

*The threat projectiles were required to have no greater than 5° total yaw. Projectile yaw was measured to ensure that the test impacts were within this constraint by placing a yaw card at the appropriate gun-to-target range during velocity verification shots.

An adjustable cart was used in order to manipulate the obliquity and elevation of each shot in relation to the fixed position of the wall system.

2.1.2 Instrumentation

Projectile velocity measurements were obtained using Oehler Research model No. 57 infrared screens with Hewlett-Packard (HP) counter chronographs (universal counters, HP model No. 53131A). A digital still camera was used to document the test. Photographs are presented in Attachment A.

2.2 Details of Test

The objective of this test was to conduct a ballistic resistance test on the samples in accordance with SD-STD-01.01, Revision G (Amended), dated 30 April 1993. All shots were conducted at ambient conditions (Temp: 71.2 °F, RH: 55.0%, Barometric Pressure: 30.27 in-Hg). Shots were placed on the wall system at various impact locations and at various obliquities; the data sheet in Section 2.3 provides details for each shot.

For all testing, the sample was welded into a custom-built test fixture that was in accordance with the referenced performance standard.

A piece of 0.020-in thick, type 2024-T3 aluminum witness was mounted approximately 6 in (± 0.5 in) behind the target, to verify complete penetrations. A complete penetration was scored only when the witness material was perforated (i.e. light was visible through the material).

All firings were conducted at 20.00 ft from the target. The projectile velocities used for the test were in accordance with the referenced performance standard.

2.3 Summary of Results

The results of the ballistic resistance test are presented in Table 1. The round-by-round ballistic data sheet for all testing performed is provided on the following page.

The following definition is used on the data sheets to describe penetrations:

None = No perforation was observed on the 2024-T3 aluminum witness panel.

Table 1. Summary of Ballistic Resistance Test

Shot No.	Threat	Penetration Data		Obliquity (deg)	Shot Location and Remarks
		Velocity (ft/s)	Result		
1	7.62 x 51-mm M80	2799	None	0.0	Opaque area of wall system, on 8.00-in circle with shots 2 and 3.
2	5.56 x 45-mm M193	3157	None	0.0	Opaque area of wall system, on 8.00-in circle with shots 1 and 3.
3	5.56 x 45-mm M855	3003	None	0.0	Opaque area of wall system, on 8.00-in circle with shots 1 and 2.
4	5.56 x 45-mm M193	3164	None	0.0	Left edge of sample. 1.25-in from frame which sample was mounted to.
5	5.56 x 45-mm M193	3180	None	0.0	Left edge of sample. 2.00-in above shot 4.
6	7.62 x 51-mm M80	2783	None	0.0	Left edge of sample. 2.25-in above shot 5. 1.25-in from frame which sample was mounted to.
7	7.62 x 51-mm M80	2792	None	0.0	Left edge of sample. 2.00-in above shot 6.
8	7.62 x 51-mm M80	2766	None	0.0	Center seam between wall panels.
9	5.56 x 45-mm M193	3146	None	0.0	Center seam between wall panels, 2.00-in below shot 8.
10	5.56 x 45-mm M193	3205	None	0.0	Bottom edge below left wall panel, 0.25-in below welded seam.
11	7.62 x 51-mm M80	2792	None	0.0	Bottom edge below left wall panel, 0.25-in below welded seam.

BALLISTIC RESISTANCE TEST

Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: ASAP Walls

Job No.: 278

Test Date: 3/22

Test Panel

Description: Wall System

Manufacturer: ASAP Walls, Inc.

Sample No.: Wall System

Size: 8.00 x 8.00 ft

Weight: NA

Date Received: 3/15/2016

Via: Hand Carr

Returned: Hand Carr

Setup

Shot Spacing: SD-STD-01.01 G
(amended)
Witness Panel: 0.02 in 2024 T3
Aluminum Sheet
Obliquity: See footnotes
Condition: Ambient

Primary Vel. Screens (ft): 5.000, 5.333,
14.666, 15.000
Primary Vel. Location (ft): 10.000
Range to Target (ft): 20.000
Target to Witness (in): 6.000

Range No.: FEBR
Temp: 71.2 °F
BP: 30.27 in-
RH: 55.0%
Barrel/Gun: See foot
Gunner: Brad Sha
Recorder: Kyle Nor

Ammunition

Projectile	Lot No.	Powder
(1) 7.62 x 51-mm, 149-grain M80 FMJ	Military	N133
(2) 5.56 x 45-mm, 55-grain M193 Ball	Military	N110
(3) 5.56 x 45-mm, 62-grain M855 ball	Military	N110

Applicable Standards or Procedures

- (1) SD-STD-01.01 Rev G (Amended), dated 30 April 1993
- (2) Customer request

Shot No.	Ammo	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Footnotes
1	1	3572	2800	3334	2799	2799	None	(a, d)
2	2	3168	3157	2956	3157	3157	None	(b, d)
3	3	3333	3000	3106	3005	3005	None	(c, d)
4	2	3162	3163	2948	3166	3164	None	(b, d)
5	2	3146	3179	2933	3182	3180	None	(b, d)
6	1	3595	2782	3353	2783	2783	None	(a, d)
7	1	3584	2790	3340	2794	2792	None	(a, d)
8	1	3616	2765	3374	2766	2766	None	(a, d)
9	2	3179	3146	2967	3146	3146	None	(b, d)
10	2	3124	3201	2908	3209	3205	None	(b, d)
11	1	3582	2792	3342	2793	2792	None	(a, d)

Remarks:

M80 required velocity: 2700 to 2800 ft/s

M193 required velocity: 3135 to 3235 ft/s

M855 required velocity: 2950 to 3050 ft/s

Footnotes:

(a) Used barrel No. CT-4063 and 40.3-grain N133 powder

(b) Used barrel No. CT-4001 and 18.9-grain N110 powder

(c) Used barrel No. CT-4001 and 19.0-grain N110 powder

(d) 0.02 in 2024 T3 Aluminum Sheet used as witness

3 Forced Entry Testing

The sample that was used for ballistic testing was subsequently used for forced entry testing. Four 15-minute concentrated assaults were conducted on the test sample.

For all testing, the sample was welded into a custom-built test fixture that was in accordance with the referenced performance standard. A platform was constructed so that the attackers were standing on the same plane as the bottom of the wall system.

3.1 Resources and Instrumentation

3.1.1 Resources

The resources used for the Forced Entry test were:

- Personnel – 6
- 2 x Sledgehammer, 12.00 lbs, 30.00 in long
- 2 x Carpenter Hammer, 3.00 lbs
- 2 x Carpenter Hammer, 1.00 lbs
- 1 x 120.00 lbs 2-man ram, with 4.00 x 4.00 in strike face
- 1 x Wood Ax, Single Bit, 3.50 lbs, 36.00 in long
- 1 x Wood Splitting Maul, 9-lbs, 35.00 in long
- 2 x Crowbar, Pinch Bar, 60.00 in
- 2 x Crowbar, Ripping Bar, 48.00 in
- 2 x Crowbar, 24.00 in
- 4 x Wood Splitting Wedge, 9.00 x 2.50 in
- 2 x Hacksaw, 12.00 in
- 1 x Keyhole saw, wood, 12.00 in
- 1 x Bolt Cutters, 48.00 in
- 1 x End Nippers, 14.00 in
- 2 x Cold Chisel, 1.00 in
- 2 x Cold Chisel, 0.75 in
- 2 x Masonry Chisel, 2.25 in
- 2 x Flat Blade Screwdriver, 10.00 in
- 2 x Flat Blade Screwdriver, Medium 0.25 in
- 2 x Phillips Screwdriver, 10.00 in
- 2 x Phillips Screwdriver, No. 1
- 1 x Channel Locks, 10.00 in
- 1 x Adjustable Wrench, 15.00 in
- 2 x Adjustable Wrench, 10.00 in
- 1 x Punch, 0.375 in
- 1 x Punch, 0.25 in
- 1 x Vice Grip, 12.00 in
- 1 x Push Broom, Wooden

3.1.2 Instrumentation

A digital still camera and real-time video camera were used to document the test. Photographs of the test are presented in Attachment A, and the video documentation will be provided on a separate DVD.

3.2 Details of Test

The objective of each of the four concentrated assaults was to attempt to create an opening in the wall system such that either a 12.00 x 12.00 x 8.00 in rigid rectangular shape or a 12.00 x 12.00 in rigid cylindrical shape could be passed through the opening, IAW the referenced performance standard. The following locations were assaulted during this test series:

1. Center of opaque area on the right wall panel.
2. Right edge of the wall panel system.
3. Bottom left edge of the wall panel system.
4. Center seam between wall panels.

3.3 Summary of Results

The results of the forced entry test are shown in Table 2. A detailed data sheet for the testing performed is presented on the following page. The attack team was not able to pass the Rigid Rectangle or Rigid Cylinder through any openings created during this test series.

Table 2. Summary of Forced Entry Test Results

Attack No.	Attack Location	Protection Level	Results
1	Center of opaque area, right wall panel.	15 minutes	The sample had no openings sufficient to permit passage of a rigid rectangular shape or rigid cylinder per Section 3.2 of this report after minutes of testing.
2	Right edge of wall panel system.	15 minutes	The sample had no openings sufficient to permit passage of a rigid rectangular shape or rigid cylinder per Section 3.2 of this report after minutes of testing.
3	Bottom left edge of wall panel system.	15 minutes	The sample had no openings sufficient to permit passage of a rigid rectangular shape or rigid cylinder per Section 3.2 of this report after minutes of testing.
4	Center seam between wall panels.	15 minutes	The sample had no openings sufficient to permit passage of a rigid rectangular shape or rigid cylinder per Section 3.2 of this report after minutes of testing.

FORCED ENTRY TEST - ATTACK 1

Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: ASAP Walls, Inc.
Job No.: 2784-001
Test Date: 3/22/2016

Test Panel

Sample No.: Wall System

Size: 8.00 x 8.00 ft

Model No.: Wall System

Date Received: 3/15/2016
Via: Hand Carried
Returned: Hand Carried

Setup

Protection Level: 15.00 min
Attack Location 1: Center of right wall panel
Condition: Ambient

Test Director: Kyle North
Technicians: Brad Shaffer
Mike Hinder
Cory Blackburn
Tony Contreras
Bryan Shaffer
Jason Siverd

Range No.: FEBR
Temp: 71.2 °F
BP: 30.27 in-Hg
RH: 55.0%

Applicable Standards or Procedures

(1) SD-STD 01.01 Rev G, dated 30 April 1993

Test Resources

Item	Quantity	Footnotes	Item	Quantity	Footnotes
-Sledgehammer, 12.00 lbs, 30.00 in	2		-Cold Chisel, 0.75 in	2	
-Carpenter Hammer, 3.00 lbs	2		-Masonry Chisel, 2.25 in	2	
-Carpenter Hammer, 1.00 lbs	2		-Flat Blade Screwdriver, 10.00 in	2	
-120.00 lbs 2-man ram, with 4.00 x 4.00 in	1		-Flat Blade Screwdriver, Medium 0.25 in	2	
-Wood Ax, Single Bit, 3.50 lbs, 36.00 in	1		-Phillips Screwdriver, 10.00 in	2	
-Wood Splitting Maul, 9-lbs, 35.00 in long	1		-Phillips Screwdriver, No. 1	2	
-Crowbar, Pinch Bar, 60.00 in	2		-Channel Locks, 10.00 in	1	
-Crowbar, Ripping Bar, 48.00 in	2		-Adjustable Wrench, 15.00 in	1	
-Crowbar, 24.00 in	2		-Adjustable Wrench, 10.00 in	2	
-Wood Splitting Wedge, 9.00 x 2.50 in	4		-Punch, 0.375 in	1	
-Wood Keyhole Saw, 12.00 in	1		-Punch, 0.25 in	1	
-Hacksaw, 12.00 in	2		-Portable Propane Torch	1	(a)
-Bolt Cutters, 48.00 in	1		-Vice Grip, 12.00 in	1	
-End Nippers, 14.00 in	2		-Push Broom, Wooden	1	
-Cold Chisel, 1.00 in	1		-Rigid Rectangle, 12 in x 12 in x 8 in	1	
			-Rigid Cylinder, 12 in x 12 in	1	

Footnotes

(a) Used only during test to failure phases; not used during this test program.

Remarks

The test fixture was a custom-made frame constructed from W6x25 I-Beam.

A 6-man attack team was used in accordance with Section 2.5; a 15-minute tool set was used in accordance with Table 2 of SD-STD-01.01G.

The purpose of the attack was to evaluate the ability of the opaque wall section to withstand a 15-minute concentrated assault.

Attack 1 Results

The attack team was not able to pass the Rigid Rectangle or Rigid Cylinder through any openings created during the attack, after 15:00 minutes.

FORCED ENTRY TEST - ATTACK 2

Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: ASAP Walls, Inc.
Job No.: 2784-001
Test Date: 3/22/2016

Test Panel

Sample No.: Wall System

Size: 8.00 x 8.00 ft

Model No.: Wall System

Date Received: 3/15/2016
Via: Hand Carried
Returned: Hand Carried

Setup

Protection Level: 15.00 min
Attack Location 1: Right edge of wall panel system
Condition: Ambient

Test Director: Kyle North
Technicians: Brad Shaffer
Mike Hinder
Cory Blackburn
Tony Contreras
Bryan Shaffer
Jason Siverd

Range No.: FEBR
Temp: 71.2 °F
BP: 30.27 in-Hg
RH: 55.0%

Applicable Standards or Procedures

(1) SD-STD 01.01 Rev G, dated 30 April 1993

Test Resources

Item	Quantity	Footnotes	Item	Quantity	Footnotes
-Sledgehammer, 12.00 lbs, 30.00 in	2		-Cold Chisel, 0.75 in	2	
-Carpenter Hammer, 3.00 lbs	2		-Masonry Chisel, 2.25 in	2	
-Carpenter Hammer, 1.00 lbs	2		-Flat Blade Screwdriver, 10.00 in	2	
-120.00 lbs 2-man ram, with 4.00 x 4.00 in	1		-Flat Blade Screwdriver, Medium 0.25 in	2	
-Wood Ax, Single Bit, 3.50 lbs, 36.00 in	1		-Phillips Screwdriver, 10.00 in	2	
-Wood Splitting Maul, 9-lbs, 35.00 in long	1		-Phillips Screwdriver, No. 1	2	
-Crowbar, Pinch Bar, 60.00 in	2		-Channel Locks, 10.00 in	1	
-Crowbar, Ripping Bar, 48.00 in	2		-Adjustable Wrench, 15.00 in	1	
-Crowbar, 24.00 in	2		-Adjustable Wrench, 10.00 in	2	
-Wood Splitting Wedge, 9.00 x 2.50 in	4		-Punch, 0.375 in	1	
-Wood Keyhole Saw, 12.00 in	1		-Punch, 0.25 in	1	
-Hacksaw, 12.00 in	2		-Portable Propane Torch	1	(a)
-Bolt Cutters, 48.00 in	1		-Vice Grip, 12.00 in	1	
-End Nippers, 14.00 in	2		-Push Broom, Wooden	1	
-Cold Chisel, 1.00 in	1		-Rigid Rectangle, 12 in x 12 in x 8 in	1	
			-Rigid Cylinder, 12 in x 12 in	1	

Footnotes

(a) Used only during test to failure phases; not used during this test program.

Remarks

The test fixture was a custom-made frame constructed from W6x25 I-Beam.

A 6-man attack team was used in accordance with Section 2.5; a 15-minute tool set was used in accordance with Table 2 of SD-STD-01.01G.

The purpose of the attack was to evaluate the ability of the right edge of the sample to withstand a 15-minute concentrated assault.

Attack 1 Results

The attack team was not able to pass the Rigid Rectangle or Rigid Cylinder through any openings created during the attack, after 15:00 minutes.

FORCED ENTRY TEST - ATTACK 3

Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: ASAP Walls, Inc.

Job No.: 2784-001

Test Date: 3/22/2016

Test Panel

Sample No.: Wall System

Size: 8.00 x 8.00 ft

Model No.: Wall System

Date Received: 3/15/2016

Via: Hand Carried

Returned: Hand Carried

Setup

Protection Level: 15.00 min
Attack Location 1: Bottom left edge
of wall panel
system
Condition: Ambient

Test Director: Kyle North
Technicians: Brad Shaffer
Mike Hinder
Cory Blackburn
Tony Contreras
Bryan Shaffer
Jason Siverd

Range No.: FEBR
Temp: 71.2 °F
BP: 30.27 in-Hg
RH: 55.0%

Applicable Standards or Procedures

(1) SD-STD 01.01 Rev G, dated 30 April 1993

Test Resources

Item	Quantity	Footnotes	Item	Quantity	Footnotes
-Sledgehammer, 12.00 lbs, 30.00 in	2		-Cold Chisel, 0.75 in	2	
-Carpenter Hammer, 3.00 lbs	2		-Masonry Chisel, 2.25 in	2	
-Carpenter Hammer, 1.00 lbs	2		-Flat Blade Screwdriver, 10.00 in	2	
-120.00 lbs 2-man ram, with 4.00 x 4.00 in	1		-Flat Blade Screwdriver, Medium 0.25 in	2	
-Wood Ax, Single Bit, 3.50 lbs, 36.00 in	1		-Phillips Screwdriver, 10.00 in	2	
-Wood Splitting Maul, 9-lbs, 35.00 in long	1		-Phillips Screwdriver, No. 1	2	
-Crowbar, Pinch Bar, 60.00 in	2		-Channel Locks, 10.00 in	1	
-Crowbar, Ripping Bar, 48.00 in	2		-Adjustable Wrench, 15.00 in	1	
-Crowbar, 24.00 in	2		-Adjustable Wrench, 10.00 in	2	
-Wood Splitting Wedge, 9.00 x 2.50 in	4		-Punch, 0.375 in	1	
-Wood Keyhole Saw, 12.00 in	1		-Punch, 0.25 in	1	
-Hacksaw, 12.00 in	2		-Portable Propane Torch	1	(a)
-Bolt Cutters, 48.00 in	1		-Vice Grip, 12.00 in	1	
-End Nippers, 14.00 in	2		-Push Broom, Wooden	1	
-Cold Chisel, 1.00 in	1		-Rigid Rectangle, 12 in x 12 in x 8 in	1	
			-Rigid Cylinder, 12 in x 12 in	1	

Footnotes

(a) Used only during test to failure phases; not used during this test program.

Remarks

The test fixture was a custom-made frame constructed from W6x25 I-Beam.

A 6-man attack team was used in accordance with Section 2.5; a 15-minute tool set was used in accordance with Table 2 of SD-STD-01.01G.

The purpose of the attack was to evaluate the ability of the bottom edge of the sample to withstand a 15-minute concentrated assault.

Attack 1 Results

The attack team was not able to pass the Rigid Rectangle or Rigid Cylinder through any openings created during the attack, after 15:00 minutes.

FORCED ENTRY TEST - ATTACK 4

Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: ASAP Walls, Inc.
Job No.: 2784-001
Test Date: 3/22/2016

Test Panel

Sample No.: Wall System

Size: 8.00 x 8.00 ft

Model No.: Wall System

Date Received: 3/15/2016

Via: Hand Carried

Returned: Hand Carried

Setup

Protection Level: 15.00 min
Attack Location 1: Center seam
between wall
panels
Condition: Ambient

Test Director: Kyle North
Technicians: Brad Shaffer
Mike Hinder
Cory Blackburn
Tony Contreras
Bryan Shaffer
Jason Siverd

Range No.: FEBR
Temp: 71.2 °F
BP: 30.27 in-Hg
RH: 55.0%

Applicable Standards or Procedures

(1) SD-STD 01.01 Rev G, dated 30 April 1993

Test Resources

Item	Quantity	Footnotes	Item	Quantity	Footnotes
-Sledgehammer, 12.00 lbs, 30.00 in	2		-Cold Chisel, 0.75 in	2	
-Carpenter Hammer, 3.00 lbs	2		-Masonry Chisel, 2.25 in	2	
-Carpenter Hammer, 1.00 lbs	2		-Flat Blade Screwdriver, 10.00 in	2	
-120.00 lbs 2-man ram, with 4.00 x 4.00 in	1		-Flat Blade Screwdriver, Medium 0.25 in	2	
-Wood Ax, Single Bit, 3.50 lbs, 36.00 in	1		-Phillips Screwdriver, 10.00 in	2	
-Wood Splitting Maul, 9-lbs, 35.00 in long	1		-Phillips Screwdriver, No. 1	2	
-Crowbar, Pinch Bar, 60.00 in	2		-Channel Locks, 10.00 in	1	
-Crowbar, Ripping Bar, 48.00 in	2		-Adjustable Wrench, 15.00 in	1	
-Crowbar, 24.00 in	2		-Adjustable Wrench, 10.00 in	2	
-Wood Splitting Wedge, 9.00 x 2.50 in	4		-Punch, 0.375 in	1	
-Wood Keyhole Saw, 12.00 in	1		-Punch, 0.25 in	1	
-Hacksaw, 12.00 in	2		-Portable Propane Torch	1	(a)
-Bolt Cutters, 48.00 in	1		-Vice Grip, 12.00 in	1	
-End Nippers, 14.00 in	2		-Push Broom, Wooden	1	
-Cold Chisel, 1.00 in	1		-Rigid Rectangle, 12 in x 12 in x 8 in	1	
			-Rigid Cylinder, 12 in x 12 in	1	

Footnotes

(a) Used only during test to failure phases; not used during this test program.

Remarks

The test fixture was a custom-made frame constructed from W6x25 I-Beam.

A 6-man attack team was used in accordance with Section 2.5; a 15-minute tool set was used in accordance with Table 2 of SD-STD-01.01G.

The purpose of the attack was to evaluate the ability of the bottom edge of the sample to withstand a 15-minute concentrated assault.

Attack 1 Results

The attack team was not able to pass the Rigid Rectangle or Rigid Cylinder through any openings created during the attack, after 15:00 minutes.