



Architectural Armour

EN1063 BR6/NIJ LEVEL III MULTI - LAYER BOARD CONFIGURATION



Configuration

3 layers of 12mm (nominal thickness)

EN1063 BR4 Boards

Overall thickness 36mm

Refer to installation configuration diagram

Ballistic Rating

EN1063 BR6 - certified to withstand multiple rounds from 7.62 x 51mm

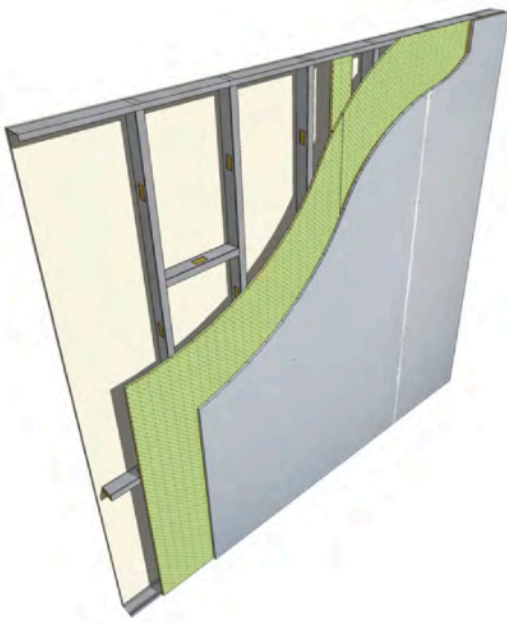
Panel Sizes

12mm Full Board 1220mm x 2440mm

12mm Strips 100mm x 2440mm

Weight approx 24 kg/m²

Each full board approx 72KG



Architectural Armour

For our full range of Bullet, Blast & Attack Resistant Windows Walls and Doors contact
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<http://www.wiltshireballistics.co.uk>

Architectural Armour Ltd
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Suffolk
CB8 9UP
UK

Trial Number 10841dAA

13 February 2020

BALLISTIC TEST REPORT

Please find attached, reports for the following test/s carried out at Wiltshire Ballistic Services on
11 December 2019.

Sample Name	Description	Results
GRP Assembly	R&D - BSEN 1063:2000 BR6 7.62x51mm Steel Jacket Ball MEN	All shots held
GRP Assembly	R&D - NIJ 0108.01 level III 7.62x51mm M80 Ball GGG	All shots held

The results contained in this report are only valid for the samples tested and detailed above. The publication of these results in any abridged form is not allowed without approval by Wiltshire Ballistic Services Ltd. in writing.

For and on behalf of Wiltshire Ballistic Services Ltd

13 February 2020



Wiltshire Ballistic Services Ltd
The Ranges, Station Road,
Devizes, Wiltshire, SN10 1BZ
Tel: 01380 721644
Fax: 01380 721421

TEST REPORT
0841dAA - WBS - 11/12/2019
13 February 2020

Architectural Armour Ltd
4 The Courtyard, Station Road
Dullingham
Suffolk
CB8 9UP
UK

Trial Number 10841dAA
Trial Date 11/12/2019
Trial Start Time 15:00
Trial Finish Time 15:30

Range Temp (°C) 20.8
Range Humidity (%) 65
Range Pressure (mBar) 986
Range Technician Jason Laird
Range Technician Andrew Collins-Frampton
Range Technician

Report Completed

James Philbrook

Approved Signatory

Sharon Pfleger-Taylor

BALLISTIC TEST DETAILS

R&D - BSEN 1063:2000 BR6

Velocity From (m/s) 820 **Witness Type** Aluminium Foil **Configuration - Muzzle to Target (m)** 10.0
Velocity To (m/s) 840 **Ammunition** 7.62x51mm Steel Jacket Ball MEN **Configuration - Muzzle to Chrono Centre (m)** 7.5

SAMPLE DETAILS

3 layers, 12mm thick bullet board

GRP Assembly

Architectural Armour Ltd

Size (mm):

Weight (kg):

Shot No.	Velocity m/s	Held/ Penetrated	Trauma Code/ Spall Rating	Comments
1	825.23	Held		
2	834.68	Held		
3	840.65	Held		Fast

GRP Assembly

RESULTS

R&D - BSEN 1063:2000 BR6

All shots held



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Range Technician Andrew Collins-
Range Technician Frampton

Report Completed

James Philbrook

Approved Signatory

Sharon Pflieger-Taylor

BALLISTIC TEST DETAILS

R&D - NIJ 0108.01 level III

Velocity From (m/s) 823 **Witness Type** 2024 T3 Aluminium Alloy Sheet 0.5mm **Configuration - Muzzle to Target (m)** 15.0
Velocity To (m/s) 853 **Ammunition** 7.62x51mm M80 Ball GGG **Configuration - Muzzle to Chrono Centre (m)** 2.5

SAMPLE DETAILS

3 layers, 12mm thick bullet board

GRP Assembly

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Size (mm):

Weight (kg):

Shot No.	Velocity m/s	Held/ Penetrated	Trauma Code/ Spall Rating	Comments
1	858.84	Held		Fast
2	846.87	Held		
3	859.10	Held		Fast
4	855.70	Held		Fast
5	853.56	Held		Fast

GRP Assembly

RESULTS

R&D - NIJ 0108.01 level III

All shots held

END OF REPORT

BS EN 1063 (2000)

Test & Classification for Ballistic Security Glazing in Buildings

	Class Threat Level	Type of Weapon	Calibre	Ammunition	No of Shots	Velocity (m/s)	Test Range (m)	Spacing (mm)
	BR1	Rifle	.22 LR	L/RN	3	360 +/- 10	10	120 +/- 10
	BR2	Hand Gun	9mm Luger	FJ1/RN/SC	3	400 +/- 10	5	120 +/- 10
	BR3	Hand Gun	.357 Magnum	FJ1/CB/SC	3	430 +/- 10	5	120 +/- 10
	BR4	Hand Gun	.44 Rem Magnum	FJ2/FN/SC	3	440 +/- 10	5	120 +/- 10
	BR5	Rifle	5.56x45	FJ2/PB/ SCP 1	3	950 +/- 10	10	120 +/- 10
	BR6	Rifle	7.62x51	FJ1/PB/SC	3	830 +/- 10	10	120 +/- 10
	BR7	Rifle	7.62x51	FJ2/PB/ HC 1	3	820 +/- 10	10	120 +/- 10
	SG1	Shot Gun	12/70	Solid Slug 3	1	420 +/- 20	10	-
	SG2	Shot Gun	12/70	Solid Slug 3	3	420 +/- 20	10	125 +/- 10

Ammunition Legend:

L - lead

CB - coned bullet

FJ - full metal jacket bullet

FN - flat nose

HC1 - steel hard core

PB - pointed bullet

RN - round nose

SC - soft core (lead)

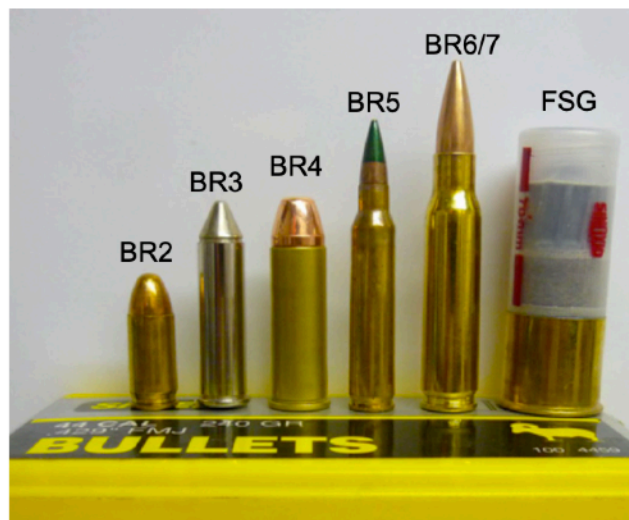
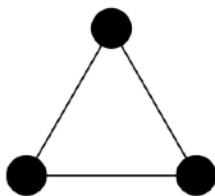
SCP1 - soft core (lead) and steel penetrator (type SS109)

Notes:

1) Full Steel Jacket (plated)

2) Full Copper Alloy Jacket

3) Brenneke 12G solid slug



This information is provided as a simple reference guide and does not contain all the relevant testing criteria. Please contact Architectural Armour for more information about our Ballistic Resistant Products or the appropriate testing standards agency for a full detailed specification.



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