# FG SERIES FIBERGLASS OPAQUE



#### **PRODUCT DESCRIPTION**

Fiberglass composite panels are manufactured with woven roving ballistic grade fiberglass and resin to form a rigid panel. These panels are designed to be installed directly against a stud wall (typically behind drywall) or overhead in a sub-roof system. The unique design of the panels will stop a variety of projectiles (bullets or shrapnel) and prevent ricochet as well. Offering innovative solutions for bullet, blast, impact and wind resistance.

#### SPECIFICATION

- Underwriters Laboratories UL 752 (Levels 1-8)
- National Institute of Justice (NIJ) (I, II-A, II, III-A, III)
- MIL-P-46593A (ORD) V-50 test
- ASTM E119-ooA (1 hour fire test)
- ASTME-84-91a (Surface Burning Characteristics)
- Nominal weights and thicknesses (see chart)

#### **Available Sheet Sizes**

- 4' x 8′
- 3' x 8'
- 4' x 5'

Consult factory for custom sheet sizes.

#### **APPLICATION INFORMATION**

Butt joints are ballistically weak. Reinforcement is recommended using a 4" wide strip of the same material as a batten. No rigid high-density material should be used

adjacent to the

panel's inner surface (surface opposite side bullet enters). Allow a minimum gap of  $\frac{1}{4}$ ".

#### INSTALLATION

See Drawing

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### Composites Ballistic Chart UL – Underwriters Laboratories

PRODUCT	NOMINAL WEIGHT LBS/SQ FT (KGS/SQ MTR)	NOMINAL THICKNESS INCHES (MM)	LEVEL	WEAPON	AMMUNITION	Velocity Ft/Sec
FG 100	2.9 (14.6)	1/4 (6)	UL 1 (MPSA)	9mm	124 GR FMJ	1175-1295
FG 200	4.1 (20)	3/8 (10)	UL 2 (HPSA)	.357 Magnum	158 GR SP	1250-1375
FG 300	5.3 (25.6)	1/2 (13)	UL 3 (SPSA)	.44 Magnum	240 GR LEAD	1350-1485
FG 400	13.7 (67)	1 3/16 (30)	UL 4 (HPR)	.30 Cal Rifle	180 GR SP	2540-2794
FG 500	14.9 (73)	1 3/8 (35)	UL 5	7.62mm Rifle	150 GR FMJ	2750-3025
FG 600	4.1 (20)	3/8 (10)	UL 6	9mm Uzi	124 GR FMJ MULTIPLE SHOTS	1400-1540
FG 700	12.1 (59)	1 1/16 (27)	UL 7	5.56mm M- 16	55 GR FMJ MULTIPLE SHOTS	3080-3388
FG 800	15.5 (76)	1 7/16 (37)	UL 8	7.62mm Rifle	150 GR FMJ MULTIPLE SHOTS	2750-3025

#### ABBREVIATIONS USED IN THIS CHART

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