

DuPont™ SentryGlas®
Security Testing -
Intrusion/Forced Entry
September 2008



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EN 356

Glass in building. Security glazing. Testing and classification of resistance against manual attack

Testing done at Stazione Sperimentale del Vetro Marghera, Italy

Sample fabrication: AGC Westland in the Netherlands

Test details

Mechanical hammer + mechanical axe impacts

SentryGlas® constructions

Sample size 840 mm x 1040 mm (33" x 41")

Multiple constructions, annealed glass



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Level	Total Number of Strikes	Total PVB Laminate Thickness	Total SentryGlas® Laminate Thickness
P6B	30-50	15 mm	11 mm
P7B	51-70	22.5 mm	15 mm
P8B	Over 70	25 mm	16.5 mm

Significantly thinner glass constructions possible with SentryGlas®

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SentryGlas® laminate construction	Hammer strikes	Axe strikes	Total	Level
4.4.8 4 mm glass / 3.04 mm SG / 4 mm glass	20	24	44	P6B
6.6.8 6 mm glass / 3.04 mm SG / 6 mm glass	20	23	43	P6B
4.4.12 4 mm glass / 4.56 mm SG / 4 mm glass	16	57	73	P8B
6.6.12 6 mm glass / 4.56 mm SG / 6 mm glass	20	45	65	P7B
4.4.4.8 4 mm glass / 1.52 mm SG / 4 mm glass / 1.52 mm SG / 4 mm glass	20	37	57	P7B
4.4.4.12 4 mm glass / 2.28 mm SG / 4 mm glass / 2.28 mm SG / 4 mm glass	20	98	118	P8B



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