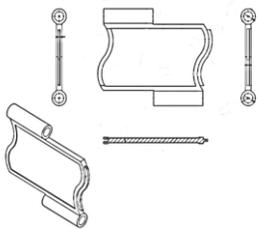




JlianJ Shutter Roller (J-Shutt)



+**JlianJ Shutter Roller (J-Shutt)** is a heavy-duty window shade which made by Polycarbonate and with articular hinges of steel which is designed, formulated and fabricated by the R&D department of JlianJ Industrial Group for unique Forced Entry applications. This product is designated for two markets, the first one public market and the second one is allocated to security and protection uses.

+The highest level security certificate issued by **Prevention Police NAJA IRI** for this novel shades in security matters that insures that this product offers maximum protection for so many special applications such as Military areas, Governmental organizations, Banks, Museums, Security vehicles, Exchanges, Jewelry stores, Zoos and etc.

+**J-Shutt** indeed formulated with a specific grade of Polycarbonate with some hybrid impact modifying additives which leads to reach individual properties such as more impact resistance into other common similar products.

+**J-Shutt** vouch that in the event of Forced Entry attacks will not have any shreds even in extreme impacts.

+It is worth mentioning that all tests which had performed by the Police, were upper than laboratory standards for instance the weight of blunt tool and Axe based on ASTM F 1233 shall be respectively 5.5 and 3 kg but in the real situation was 8 and 5 kg respectively.

+The Chemical tests in lab standard is Gasoline and Acetone but in the real condition this test was done by Gasoline, Nitric Acid and Sulfuric Acid 98% that the result was resistance of the **J-Shutt** against them.

+laboratory condition test required to sequence all kinds tests (Physical, Chemical, Thermal) but in the real circumstances all test was accomplished simultaneously.

+All test was implemented in aflame state of **J-Shutt** with Gasoline and also dispensed Sulfuric Acid 98%.

+The Protection Level of Forced Entry of **J-Shutt** is reported at minimum Lab-standard level (Table-1).

+In accordance with certificate issued by **Prevention Police NAJA IRI**, this product is the best and successful alternative for any kind of Shutter Rollers in terms of

security and high level protection specially against riot and demonstration. Specially that they had an additional detonation test that in the true sense of the word this test was passed.

Table-1 J-Shutt Forced Entry Protection Properties

J-Shutt Forced Entry Protection		
Standard	Thickness	Security Class
EN 356 Forced Entry test	8 mm	P7B
ASTM F 1233 Forced Entry test	8 mm	Level 3- 16
HPW TP 0500.02 Forced Entry test	8 mm	Level 3- 16
General Specifications		
Property	Unit	Value
Light Transmission	%	89.0
Puncture Maximum Force	N	6700
Extreme impact strength (ISO-179) kJ/m ²		Non-break
Resistant against a high thermal expansion		-80 to 120°C
Safety of Flammability (UL-94)		V-0

JlianJ Industrial Group
 No.10- 3th Floor- Melat Tower- Opposite to Melat
 Park- Valiasr Ave- Tehran- Iran
 Tel: +982174616
 Fax: +982122034215
 www.jlianj.com