

Steel reinforced UPVC windows/doors

The Inoutic Eforte window system was designed in Germany to address the following concerns in the building industry:

1. Thermal Insulation: The goal was to have an affordable window system with an U-Value of less than 0.3. Our standard and double glazed windows have a value of 0.21.
2. Noise Insulation: By using different glazing laminates, we can offer noise control levels from 32 dB for standard glazing to 42 dB with A 3 glazing and 52 dB with our B 1 glazing.
3. Security: With a combination of steel-reinforced extrusions, multi-point locking mechanism and different laminated glazing, we can fabricate windows and doors to specific certified security levels, from burglar proof (A 3) to bullet resistant levels (C 3).

Typical sections of Inoutic Eforte system (window and door):

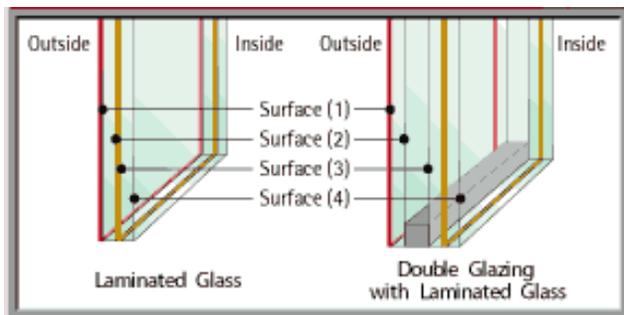


Standard dual pane glass: U value 0.21 Noise control value 32dB
A3 level security glass: U value 0.21 Noise control value 42dB
B1 level security glass: U value 0.21 Noise control value 52dB

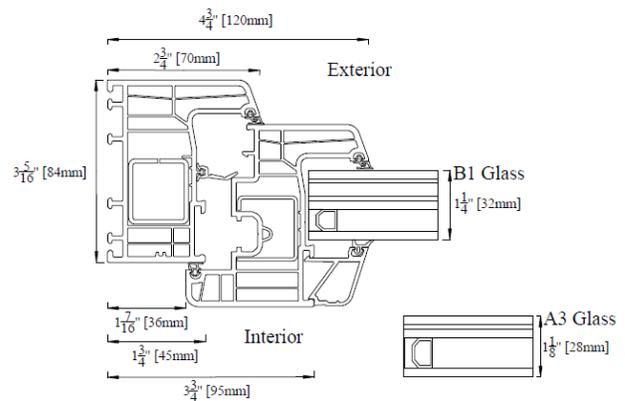
Contracrime Level A	Class of Resistance	Glazing Single Pane Insulated	CC Type	Thickness of glass inch/mm	Weight pounds per sq. yard
Single family residences, multi family dwellings in low risk areas	A 1	Single	A 1.15	0,34 / 8,5	38
		Insulated	A 1.25 WS	0,89 / 22,5	57
Secluded homes	A 2	Single	A 2,15	0,35 / 9	40
		Insulated	A 2,25 WS	0,91 / 23	59
Secluded homes in high risk areas Vacation and weekend homes	A 3	Single	A 3,15	0,37 / 9,5	42
		Insulated	A 3,25 WS	0,93 / 23,5	61
All high risk residences	DH 4	Single	DH 4,15	0,43 / 11	42
		Insulated	DH 4,25	0,97 / 24,5	61

Contracrime Level B	Class of Resistance	Glazing Single Pane Insulated	CC Type	Thickness of glass inch/mm	Weight pounds per sq. yard
Exclusive Homes, Parts of Shopping Malls, Photo and Video stores, Drug Stores	B 1	Single	B 1.14	0,71 / 18	79
		Insulated	B 1.23 WS	1,26 / 32	97
Museums, Art Galleries, Psychiatric Institutions, Abortion Clinics	B 2	Single	B 2,15	0,95 / 24	102
		Insulated	B 2,26 WS	1,5 / 38	121
Data Centers, Jewelers, Energy Plants, Prisons, Banks	B 3	Single	B 3,19	1,1 / 27	108
		Insulated	B 3,31 WS	1,62 / 41	126

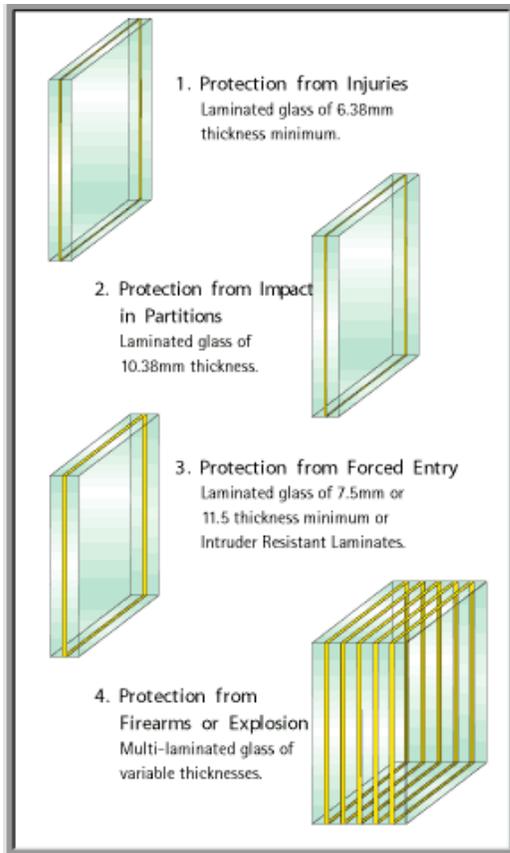
Typical A3 Glass:



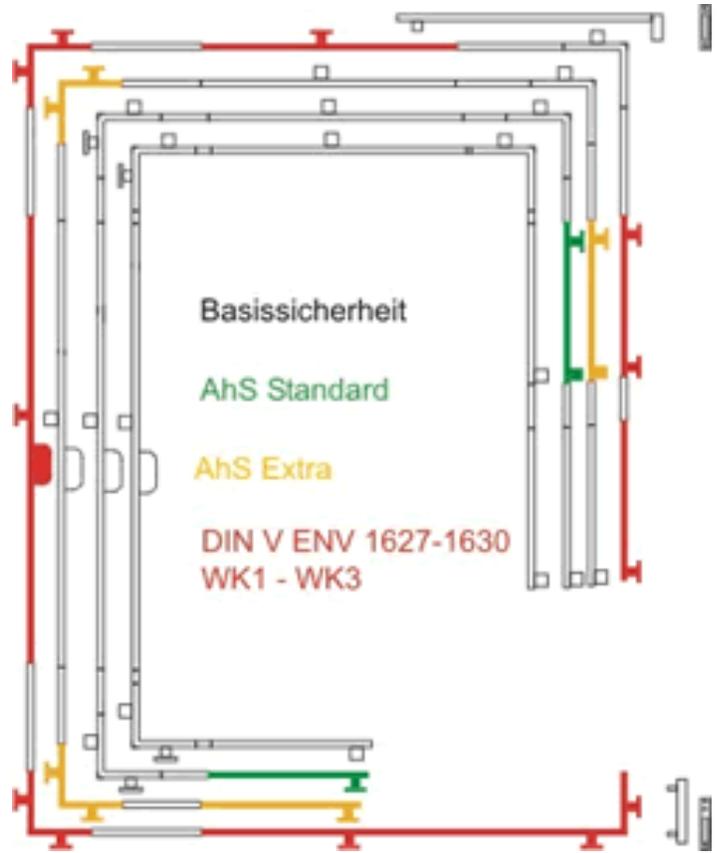
A3 and B1 glass in frame:



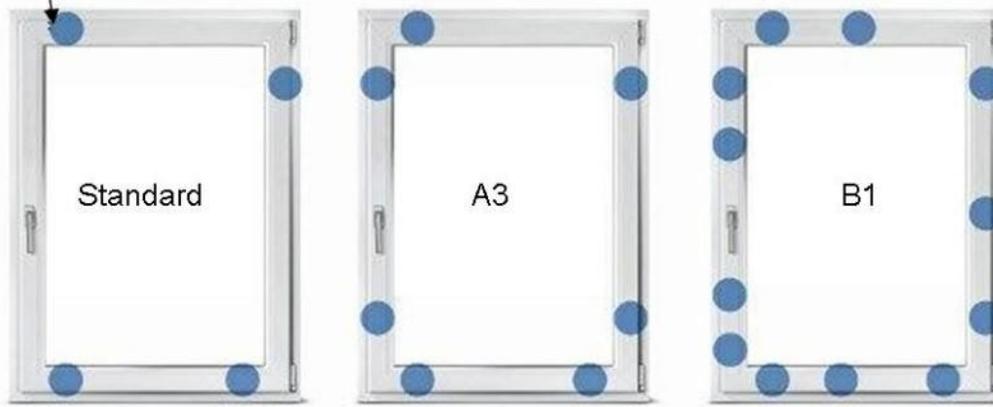
Different lamination levels:



All of our security levels incorporate a minimum of 7 cam locks per opening (red)



Multi-point cam locking mechanism around the perimeter of the frame



The Inoutic Eforte window and door system uses exclusively **Tilt & Turn** opening mechanism: a 90 degree turn of the handle opens the window like a casement, for easy egress/regress and also for easy cleaning. Another 90 degree turn of the handle will tilt the window inside on top. This allows for ventilation while still providing security and also keeping the rain out.

Closed position



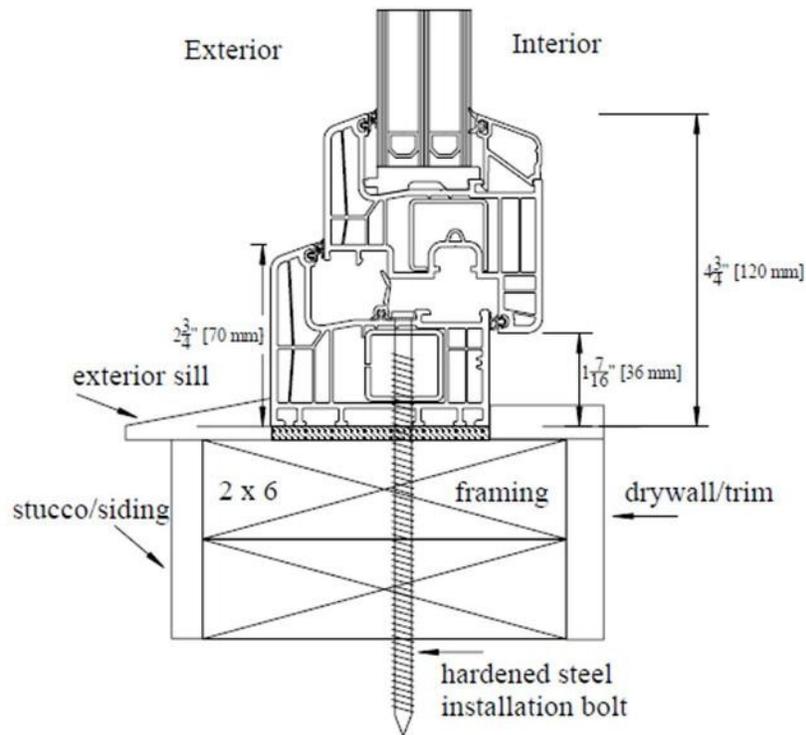
Open position



Tilt position for ventilation



Typical installation of a tilt & turn window into wood framing



Architecture Colors



Aluminium and metal looks of the premium colours Titanium Plus accentuate the modern character of both private homes and commercial buildings.

<http://www.inoutic.de/en/colours/architecture-colors/architecture-colors.html>



Classic Colors



The elegant wood grains available in different colours excellently compliment the architecture of commercial and private home design.

<http://www.inoutic.de/en/colours/classic-colors/classic-colors.html>



Timeless Colors



Delicate wood grain finishes in combination with timeless colour nuances award the façade a special flair.

<http://www.inoutic.de/en/colours/timeless-colors/timeless-colors.html>



Traditional Colors



The natural colour shades of the wood grain designs blend perfectly with both traditional and modern architectural styles.

<http://www.inoutic.de/en/colours/traditional-colors/traditional-colors.html>



Trend Colors

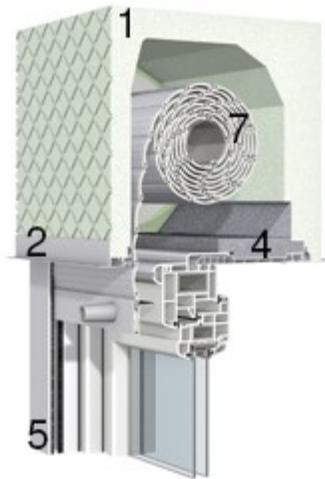


Subdued and stylish grey tones feature an elegant pearl structure, awarding a sophisticated emphasis to the architectural design.

<http://www.inoutic.de/en/colours/trend-colors/trend-colors.html>



Built in Rolling Shutters with optional Flyscreens



Built in rolling shutter with fly screen



Built in Rolling Shutter

1. **Box**-High-grade rugged polystyrene
2. **Plaster base profile, inside and outside** - stucco can be applied over the box, access panel inside
3. **Reinforcement profile of aluminium** - For brick veneer walls.
4. **Inspection cover, inside** PVC hollow chamber profile with glued-on polystyrene insulation
5. **Guide Rails** Extruded plastic in white, optionally laminated powder coated aluminum also available
6. **End rail**—Flat end rail made of aluminium, with integrated groove and sealing lip, includes stoppers, optionally available with two-piece 90°-profile end rail
7. **Roller Shutter Curtain**—made of aluminum or UPVC
8. **Shaft** - Octagonal steel shaft SW 52, for all operating types

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