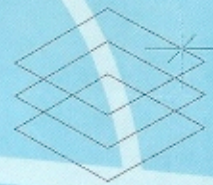


Safety and Security with the Glasslam System



Glasslam laminated glass offers the safety and security ideal for private residences, storefronts, window displays, banks, and many other applications. Almost every building has an area where building codes require the use of safety glass. Traditionally, tempered glass has been used in these areas, however, the use of Glasslam laminated glass meets all the safety requirements while automatically providing security to the building. Glass laminated with a minimum of 0.030" Glasslam interlayer classifies as safety glass according to the highest standards set by the US and the UK.

- US safety standards ANSI Z97.1
- Consumer Products Safety Commission (CPSC) CFR 1201 Category II
- UK standard BS 6206, class A

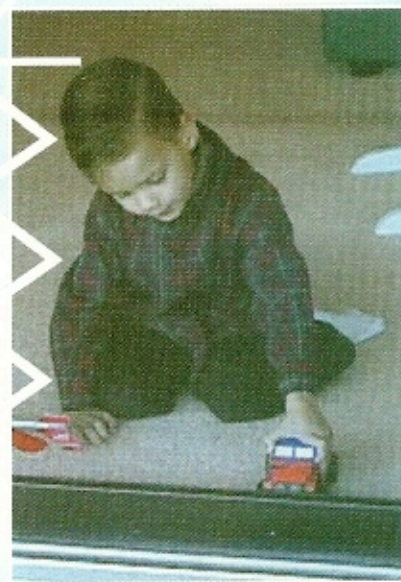
Another feature offered by the Glasslam system is resistance to explosions and blasts. After having been broken by the force of an explosion or bomb blast, broken glass will be held together by the interlayer, eliminating the flying debris which leads to the majority of injuries in this kind of situation. A higher degree of security in this type of incident can be provided through the use of thicker interlayers and multiple interlayers.

continued on back

OLD NAVY STOREFRONT, PEMBROKE PINES, FL USA



OCEANVIEW ROOFTOP, PANAMA



PRIVATE RESIDENCE, POMPANO BEACH, FLORIDA, US

Safety and Security with the Glasslam System

TEST RESULTS WITH THE GLASSLAM SYSTEM

Laminated glass products produced by N.G.I., Inc. or its licensed fabricators of the Glasslam system have passed many independent tests, here are just some of the test standards met.

Impact:

- ANSI Z97.1-1984 (100 lb.)
- C.P.S.C.16 C.F.R. 1201 CATH (400lb)
- B.S. 6206 1981 Class A (400lb)
- B.S. 6206 1981 Class B (150lb)
- B.S. 6206 1981 Class C (100lb)

BOIL TEST: ANSI Z97.1-1984 - Complies

FEDERAL MOTOR VEHICLE SAFETY STANDARD 205 1966 AND C.S.A STANDARD D-263

Test Result:

1. Light Stability - Complies
2. Luminous Transmittance-Complies
3. Humidity-Complies
4. Boil-Complies
7. Impact Dart, 30 Feet-Complies
12. Impact Ball, 30 Feet-Complies
15. Deviation and Distortion-Complies
18. Penetration Resistance-Complies

SOUTH FLORIDA BUILDING CODE SECTIONS 2309, 2314, AND 2315

- Large Missile Impact Test (50/sec) - Complies
- Small Missile Impact Test (80/sec) - Complies
- Cyclic Wind Pressures (9000 cycles)- Complies
- Self Ignition ASTM D-1929-Complies
- Rate of Burning ASTM D-635-Complies
- Smoke Density ASTM E-84-Complies
- Weather Test 6500 Watt Lamp for 4500 hrs.-Complies
- Tensile Test ASTM D-638-Complies

ARCHITECTURAL SPECIFICATIONS

There are over 500 fabricators of the Glasslam system, and many of these have their own unique product lines. Many of these fabricators produce the whole range of these laminated glass products produced with the Glasslam system. Contact your nearest Glasslam office for a list of fabricators that can give you the best service for your specific needs. To specify laminated glass please follow the recommendations.

Laminated architectural glass consisting of (number) lites of (thickness of glass) e.g. 1/4 inch (type) e.g. Solex, heat strengthened to 1/4 inch clear heat strengthened with clear (or state color) Glasslam interlayer by N.G.I., Inc.

The glass laminate shall be with a chemical cure and be chemically bonded.

The glass shall comply with (e.g. C.P.S.C. 16 C.F.R. 1201 CATH), or code specifications for product. The laminate shall have a U.V. absorption of 99% wave length range 190-400NM.

For security/bullet resistant add the level of resistance required.

For bomb blast, hurricane resistant and security glass, state all laminate shall be mechanically fixed within the glazing system. For patterned (art glass), state pattern required, laminated to, pattern to run in direction of [e.g. 3/16" reeded to 1/8" clear annealed, pattern to run lengthwise (vertical), cobalt blue) Glasslam interlayer by N.G.I., Inc.

For Sand Seal state pattern required, thickness of glass, type, laminated to, pattern to run direction of (if applicable), color of Glasslam interlayer by N.G.I., Inc.

Laminated glass to have a 10 year warranty against delamination or discoloring.