



## Wired Glass in Schools



In the United States, the 2006 International Building Code (IBC) effectively banned the use of Wired Glass. Across North America, thousands of schools have legacy doors and windows which have been grand-fathered despite these changes to the building code.

The wires embedded in wired glass act as a discontinuity which actually makes wired glass 50% weaker than standard annealed glass.

Further, in events of breakage, the wires in wired glass creates a mesh which entraps limbs, resulting in injury. Nerve and tendon damage are common injuries involving wired glass. According to one study conducted by the Consumer Product Safety Commission (CPSC), 90% of the glass door injuries in schools involved wired glass.

While the ideal solution lies in the full replacement of wired glass in schools, the prevalence of legacy windows and doors presents a logistical and financial challenge in doing so.



ACE offers window laminates  
for all levels of protection.

ACE's 200 Series SL09 or 300 Series SL14 security laminates can be an effective and economical means of reinforcing wired glass.

ACE's SL14 security laminates are tested to both the ANSI-Z97.1 and CPSC Title 16 CFR Part 1201 standard test methods for impact resistant glazing which are the test methods cited by the US Building Code for safety glazing systems.

Further, ACE security laminates are tested to the ASTM-E84 surface burn and smoke generation test standard.

Copies of these tests are available to school boards, consultants and architecture firms upon request.

Together, this body of testing will meet the needs of most school boards and municipalities when it comes to testing of building materials used in public spaces.

**Contact ACE for further details.**

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DISCLAIMER: Installed according to factory specifications, ACE™ security laminates have been shown to reduce injuries from glass breakage. No window security film or laminate should be considered break-proof, bullet-proof or bomb-proof. At no time does ACE promote or lead readers to believe break-proofing, burglar-proofing, bullet-proofing or bomb-proofing can be achieved solely with the use of ACE products.

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