



Application solutions from Covestro

Makrolon® 15 sheet foils vandals' attacks on police facility windows again, and again, and again, and again...



Application

Impact resistant windows for metropolitan neighborhood policing center

Challenges

A frequent target for vandalism, the glass windows in the Grandview-Woodland Community Policing Centre in Vancouver BC experienced an exceptionally high rate of breakage. Security risks required that the glass be replaced quickly, often at a premium. After several breakage incidents, officials sought a more lasting solution. They ruled out exterior metal security screens in favor of glazing that would maintain a more positive "store-front" appearance for the neighborhood facility. To provide good visibility and aesthetics after an attack, the windows also had to resist spalling that security glass can exhibit on impact.

Solution

Makrolon® 15 polycarbonate sheet

- Videotape of attacks demonstrated Makrolon 15 sheet's performance on multiple levels:
 - It has withstood numerous rock and bottle throwing incidents due to its exceptional impact resistance over glass and acrylic
 - Unlike security glass, Makrolon 15 does not spall or crack on severe impact
 - Its hard-coated mar resistant surface also makes it easy to remove graffiti
 - Its surface properties also prevented adhesion of paint thrown by an attacker
 - After the paint throwing incident, cleanup was done quickly with a high-pressure washer system that can crack glass
- Its optical quality satisfies appearance requirements for the "store-front" windows
- An unprecedented 15-year warranty backs Makrolon 15 sheet's performance on abrasion, breakage, and weather resistance



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