



Cascade Safety and Security's line of industrial safety barriers have been used by manufacturing companies around the world. GuardianCoil® coiled wire fabric systems are installed as both Safeguarding Devices and as MachineGuards. Per OSHA's ANSI B11.19-2003, a safeguarding device is defined as "a device that detects or prevents inadvertent access to a hazard". A guard is defined as "a barrier that prevents exposure to an identified hazard". Operating as a safeguarding device, GuardianCoil systems prevent operators and bystanders from accessing a hazardous area by simply being closed and secured. Operating as a machine guard, our coiled wire fabric systems prevent shop personnel injuries caused by flying, rolling or sliding debris. GuardianCoil has been rigorously tested as a safeguarding device and a machine guard by several of the nation's top manufacturing companies and is currently being used at their facilities. (1)

Hydraulic Press Installment:

GuardianCoil is widely used in the manufacturing and fabrication industry to guard operators from ejected parts and debris during machine use. An Oregon based manufacturing company uses GuardianCoil operable double mesh curtains on several of its large hydraulic presses. The guards can easily be opened to load and inspect a part then closed and secured during press operation. The mesh characteristics allow visibility of the machine process without sacrificing the operator's safety. Cascade Safety and Security supplies hydraulic press guards to numerous manufacturing companies throughout North America. (1)



100-ton Press (Open)



100-ton Press (Single Closed)



100-ton Press (Double Closed)

R & D Facility quote:

"Yesterday two people working for us were using our 50 Ton press when the object they were pressing broke and was ejected at speed from the press. Fortunately one of your screens was in place saving them from injury"



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Glass Shard and Flying Debris Containment:

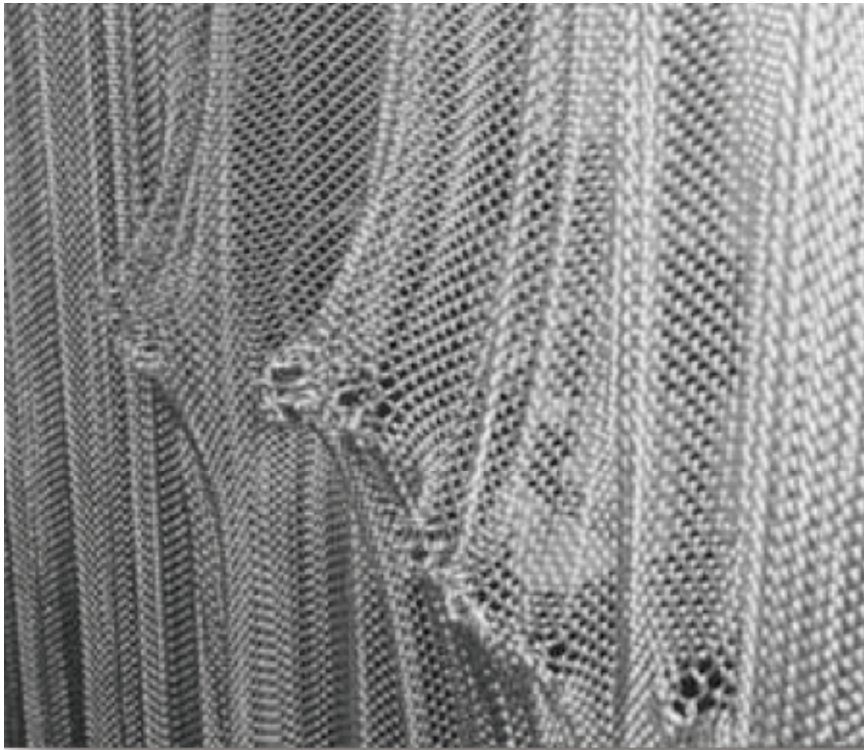
GuardianCoil has proven itself in GSA and UFC level tests as an exceptional barrier between a building's imploding window materials and its occupants. Through a live arena blast scenario using 600lbs. [272kg] Ammonium Nitrate with fuel oil and multiple shock tube tests ranging from 4psi to 10psi [27.58kPa to 68.95kPa], the mesh has kept over 90% of the glass fragments and 100% of the framing to within 10ft [3048mm] of the window base. GuardianCoil mesh drapery is currently being used by the National Guard based on these test results. ⁽¹⁾



ARA Live Blast Test 1/4"-19ga. Steel



Baker Shock Tube Blast Test 1/4"-19ga. Steel



Aircraft Fuselage Ballistics Test 3/32"- 21ga Steel Mesh

Airliner Fuselage Testing

During aircraft fuselage testing, GuardianCoil is used to wrap the cabin as a precaution to intercept and subsequently stop any debris or shrapnel that may be ejected if the fuselage were to fail. Aircraft engineers verified the strength and effectiveness of our GuardianCoil by projecting several 1.2in diameter x 2.5in long [30.5mm x 63.5mm] steel slugs into draping 3/32"-21gauge steel mesh at 170 feet/sec [51.8 meters/sec]. The woven wire mesh stopped all of the slugs. GuardianCoil was adopted by the world's leading aircraft manufacturer as their primary containment mesh during destructive testing. ⁽¹⁾

⁽¹⁾ Unlike other national and regional standards systems, the United States does not have an approved entity that can certify fully integrated and installed guard systems for safety compliance. The responsibility of ensuring compliance falls to the employer, installer and/or OEM. We are confident in our product, but as all applications are different it is imperative that you test our products for your particular installation. It is recommended that this application-specific analysis include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. All information and technical assistance is given without warranty or guarantee, and is subject to change without notice.