



# HEAVY EQUIPMENT ARMOR

PROTECTION YOU CAN COUNT ON!



## DEFENDER STYLE BALLISTIC WINDOW

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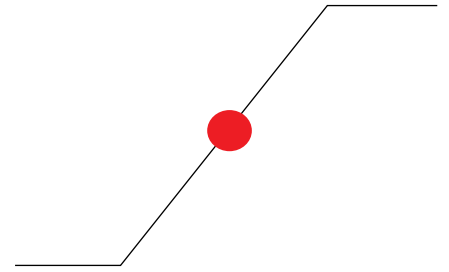
FOR CATERPILLAR D, E, F AND NEXT GEN MODELS

Protection you can count on!

208.304.0002 [WWW.HEARMOR.COM](http://WWW.HEARMOR.COM)



# WELCOME.



## *Why Heavy Equipment Armor?*

### **Who is Heavy Equipment Armor?**

Heavy Equipment Armor was founded by the owner of Advanced Forest Equipment, Engineer of the original disc mulcher for skid steers. Being a mulching contractor for over 36 years, and safety always being a priority, he designed and built custom guarding to protect his operators and equipment. Eventually, this guarding became available to purchase through Advanced Forest Equipment. Due to the inquiries received about heavy equipment guarding, it became apparent there was a need in the industry that was not being filled; Heavy Equipment Armor was established. Guarding that was available through Advanced Forest Equipment is now under the HEA name. With new guarding products continually being engineered and coming to the market.

### **What types of guarding are currently offered?**

HEA manufactures steel guarding and UL752 Level 1 ballistic guarding for CAT skid steers and excavators. Bolt on steel front door guards and cab guards are available for skid steers. HEA manufactures enhanced guarding for both skid steers and excavators.

For excavators, we deliver a bolt-on line of guarding products that include steel front window screens, top guards, and rock guards, and a bolt on UL752 Level 1 ballistic front window. Custom cab guard packages include running boards, light kits, box guards and more are available. Custom guarding is fabricated to the machine at our Northern Idaho facility.

### **What makes HEA different from other guarding manufactures?**

HEA products are designed to fit each model of machine specifically. Our products are not a universal fit or cookie cutter fit. This allows for the best potential fit. HEA polycarbonate products are made of UL752 Level 1 polycarbonate that can stand a ballistic attack. They are not milled or drilled. Most polycarbonate, offered by other companies are not ballistic rated, they are only impact rated and have been milled and drilled to fit hinges and handles. Milling & drilling polycarbonate leaves it susceptible to micro-fractures.

# DEFENDER STYLE BALLISTIC WINDOW



The new HEA defender ballistic window for excavators, protects operators from flying debris that may be encountered while operating heavy equipment. These innovative windows were designed by contractors who run heavy equipment and have been tested using ballistic standards. Our window is a UL752 rated, level 1 ballistic polycarbonate window. Unlike the OEM window that comes on your machine, these windows can withstand a ballistic attack. They are mounted to the machine using the factory locations on the front of the cab.

Fits Current CAT D, E, F, and Next Gen Model Cabs. Step-up the safety on your excavator with a UL752 Level 1 ballistic bolt-on window better known as the Defender Ballistic Window. Whether you are operating a hammer, auger, mower, mulcher, or a log processor you can feel secure in knowing there is a 3/4" bullet resistant door in place, to help protect your **BIGGEST ASSET – YOU!**

The ballistic front window for excavators, are designed with a unique fitment. They are bonded to a steel frame and are not milled and drilled. This makes them less susceptible to flex and micro-fractures.

Ballistic excavator windows are currently available for most CAT D, E, F, and Next Gen excavators. The product line is continually expanding to other makes and models of equipment.

NOTE: The optional wiper blade for the bottom of the window will NOT work with the Defender Ballistic Window replacement.

# DEFENDER STYLE BALLISTIC WINDOW

## BE AWARE. NOT ALL POLYCARBONATE IS CREATED EQUAL.

The Defender Ballistic Window for excavators has not been drilled or milled making it less susceptible to micro-fractures and is bonded to a steel frame making it flex less. Unlike most excavator windows that might be rated for heavy impact, the Defender Window is rated to withstand a ballistic attack and is designed to install with your factory window components. No matter the industry your machine may be in, its time to put real protection in place for you and your operators!

\*Bullet resistant does not mean “bullet proof”, the Level 1 polycarbonate installed in the Defender Ballistic Window is rated to withstand a ballistic attack from a 124 grain, 9mm FMJ lead core projectile from 15 feet with a shot spacing of 4 inches. This test is performed in a controlled environment at varying temperatures as low as -26 F and as high as 120 F (outside temperature).

### Saw chain shot

- 26.13.4** (1) In this section, “**saw chain shot**” means one or more parts of a saw chain traveling at a high speed as a result of the saw chain breaking.
- (2) This section applies to mobile equipment that is
- used in mechanical falling activities or log processing,
  - equipped with a saw that cuts using a saw chain, and
  - manufactured on or after May 1, 2019.
- (3) Mobile equipment referred to in subsection (2) must meet one of the following requirements:
- the mobile equipment must have protective guards or other devices that prevent the mobile equipment’s cab windows from being directly struck by saw chain shot from the mobile equipment’s saw chain;
  - each cab window that could be directly struck by saw chain shot from the mobile equipment’s saw chain must
    - be made of one or more sheets of polycarbonate that have a total thickness of at least 32 mm (1.25in), or
    - meet or exceed the requirements of the level 1 out door use ballistics tests of ANSI/UL 752, Standard for Bullet-Resisting Equipment, 11th edition (with revisions up to and including December 11, 2015).
- (4) For the purposes of subsection (3), saw chain shot that ricochets off an object and then strikes a cab window is not considered to have directly struck the cab window.

[en. B.C. Reg. 9/2017, App. N, s. 2.]

**The excerpt on the left was taken from the British Columbia Occupational Health & Safety Regulations, B.C. Reg. 296/97**

British Columbia has some of the strictest regulations when it comes to heavy equipment guarding in North America. The HEA Defender Ballistic Window exceeds these safety regulations.

**PLEASE NOTE: This guard is intended as a brush guard only. It is not a certified FOPS/ROPS guard.**

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