



## Benefits of Impact Security's **RIOTLITE**® CNC Pre-Cutting Program

**IMPACT SECURITY**  
A LIMITED LIABILITY COMPANY

For more information visit [www.defenselite.com](http://www.defenselite.com) or call 888-689-5502.

# Articulated blade vs non-articulated blade cuts

When cutting any Safety/Security Film, the type of blade you use can significantly impact the quality, precision, and efficiency of the cut and installation. Here's a breakdown of using the two available options: articulated one directional cutting and pivoting blade (**CNC machine**) vs non-articulating bidirectional cutting static blade (**hand cutting or film handler**).

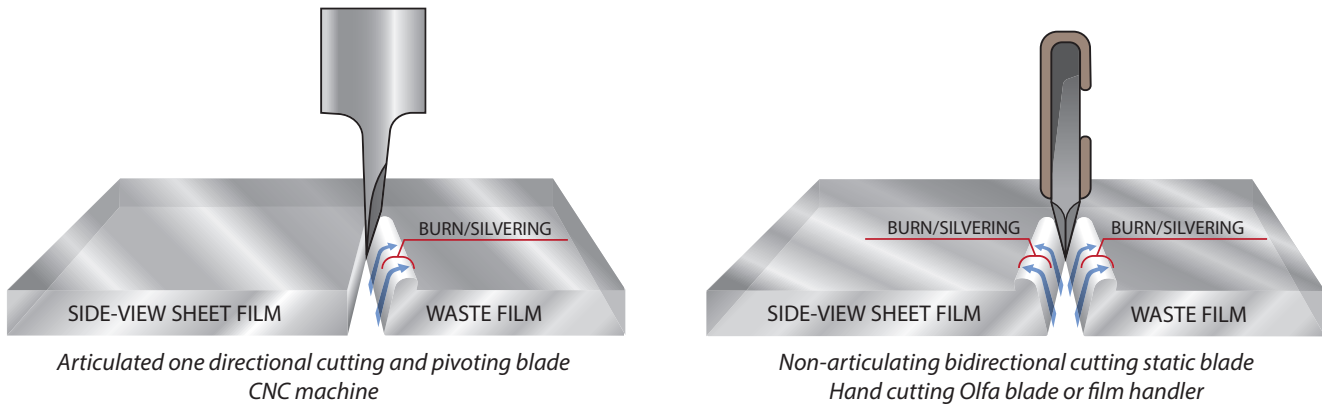


Illustration A

Articulated blade (CNC) cutting adjusts to the angle of movement with consistent pressure, this reduces “stress torquing” pressure resulting smoother cuts with virtually no jagged edges. Another key feature of articulated blades is the fact that they remove the excess material (plowing) to one side only of the blade. This function eliminates the “burn” or excess material that is so common when using non articulating blades like an Olfa knife or Film Handler (**see illustration A**). The “burn/excess material” elevates the film off the glass surface creating a silvering around the entire perimeter. The film does not lay flat and is unsightly in appearance (**see illustration B**).

## MAINTAIN CRITICAL EDGE INTEGRITY

When cutting RIOTLITE® film on a CNC machine with an articulated blade, the machine will cut each piece in one continual motion without stopping. This continual cut ensures edge integrity all while cutting to accuracy within thousands of an inch - unlike cutting film on a table, floor or film handler when you have repetitive start and stop points. These traditional cutting points never “stop and start” in the same location. The ‘hand cutting’ weakens the edge of the film and dramatically reduces a film’s tear strength while creating a failure point from the film’s edge.

## ADDITIONAL BENEFITS

- By utilizing RIOTLITE factory pre-cut program, film is delivered accurately cut and ready for installation.
- Quality of installation is dramatically improved with thicker gauged films.
- Quicker installation with less workflow disruption
- Greatly reduce on site staging area

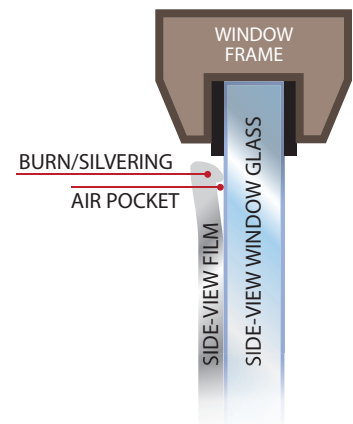


Illustration B



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