ANSI/ISEA and EN388 Cut Levels are NOT Interchangeable.

To capitalize on today’s technology and innovation, you need to understand our industry’s test methods. Each test method has unique processes and testing equipment (see diagrams for more explanation). Therefore, it is difficult to make comparisons with each of these test methods and results (scores).

**Understanding the ANSI/ISEA 105 Standard Specific to Cut Protection**

ANSI Cut Protection Test Rating Systems

The American National Standards Institute and the International Safety Equipment Association have recently updated our industry’s ANSI/ISEA 105 Standard. Effective early 2016, this updated standard will provide the criteria to better identify levels of cut protection, abrasion, puncture, chemical, heat, vibration, and dexterity. Much of our industry’s attention will be directed toward enhancements in cut protection levels.

These changes are necessary to help our industry move toward establishing an international test method for cut protection. The new test method designation is F2992/F2992M-15. Note going forward there will be nine (9) levels of cut protection performance as opposed to six (6) from the previous test method. Additionally, all levels will reference “A” as a prefix to identify compliance with the new standard.


<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>&lt; 200</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>1</td>
<td>≥ 200</td>
<td>≥ 200</td>
<td>A1</td>
</tr>
<tr>
<td>2</td>
<td>≥ 500</td>
<td>≥ 500</td>
<td>A2</td>
</tr>
<tr>
<td>3</td>
<td>≥ 1000</td>
<td>≥ 1000</td>
<td>A3</td>
</tr>
<tr>
<td>4</td>
<td>≥ 1500</td>
<td>≥ 1500</td>
<td>A4</td>
</tr>
<tr>
<td>5</td>
<td>≥ 3500</td>
<td>≥ 3000</td>
<td>A5</td>
</tr>
</tbody>
</table>

* 20mm (0.8 in.) of blade travel – ASTM F1790-97
* 25mm (1.0 in.) of blade travel – ASTM F1790-97
* 20mm (0.8 in.) of blade travel – ASTM F2992/F2992M-15

### Understanding the EN388 Standard Specific to Cut Protection

**European Standard EN388 Changes Pending**

A revised European directive to harmonize standards for PPE items and mirror more closely the ANSI/ISEA methods is pending. The most significant change would involve cut resistance test methods to more closely match the revised ANSI/ISEA 105 standard. The European Standard EN388 includes four physical tests required for gloves. Our literature and industry identifies this testing information to cut thru material*:

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Performance Guide for EN 388:</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>Abrasion Resistance (Cycles)</td>
</tr>
<tr>
<td>B</td>
<td>Blade Cut Resistance (Index)</td>
</tr>
<tr>
<td>C</td>
<td>Tear Resistance (Newtons)</td>
</tr>
<tr>
<td>P</td>
<td>Puncture Resistance (Newtons)</td>
</tr>
</tbody>
</table>

*Material from palm of glove

**TDM Method**

*Material from palm of glove

**Couptest Method**

*These icons represent the Old ANSI Levels prior to 2016.

**New Icons Effective Early 2016**

Watch for new test scores and product enhancements to be endorsed on our cut protection offerings as inventory is replenished.

**New Icons**

- A2
- A3
- A4
- A5
- A6
- A7
- A8
- A9

**NOTE:** We DO NOT Promote ANSI Level 1 or A1 for Cut Protection

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*Material from palm of glove

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These icons represent the Old ANSI Levels prior to 2016.