Overview

The PALSHIELD product line offers various levels of ballistics and forced entry protection.

Due to its layered structure, the laminate withstands both physical attack and multi-shot assault, absorbing the entire impact energy without shattering or spalling.

PALSHIELD features an abrasion resistant coating, which ensures long-term clarity for applications in accessible areas.

Main Benefits

- No spall design
- Abrasion resistant surface
- Complies with various ballistic and forced entry standards (see table on reverse side)
- Low weight: nearly half the weight of glass-equivalent
- Clear - good optical quality
- Colors: clear, bronze, grey

Typical Applications

- Security glazing in banks and government facilities
- Public institutions
- Gas stations and convenience stores
- Drive-up windows
- Ticket booths and kiosks
- Prisons and detention centers

www.palram.com
A Growing Line of Products

PALSHIELD is engineered to meet a variety of forced entry and ballistic test standards. Palram’s PALSHIELD line of products is destined to expand over time. The information listed below represents the Palram products that meet or exceed the various testing standards at the time of this printing. Please visit Palram.com/PALSHIELD for the most up-to-date information and test approvals.

Regulatory Code Compliance Certification

<table>
<thead>
<tr>
<th>Organization</th>
<th>Standard</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSI</td>
<td>Z97.1-09</td>
<td>Approved Impact and Weathering</td>
</tr>
<tr>
<td>CPSC</td>
<td>16 CFR 1201</td>
<td>Category I or II</td>
</tr>
</tbody>
</table>

Forced Entry Products

<table>
<thead>
<tr>
<th>Protection Level</th>
<th>Thickness (mm)</th>
<th>Plies</th>
<th>Kg/m²</th>
<th>Light Transmission</th>
</tr>
</thead>
<tbody>
<tr>
<td>PALSHIELD FE 375</td>
<td>9.5mm</td>
<td>2</td>
<td>11.7</td>
<td>86%</td>
</tr>
<tr>
<td>PALSHIELD FE 500</td>
<td>12.7mm</td>
<td>3</td>
<td>16.1</td>
<td>83%</td>
</tr>
<tr>
<td>PALSHIELD FE 750</td>
<td>19mm</td>
<td>3</td>
<td>23.9</td>
<td>77%</td>
</tr>
</tbody>
</table>

* Contains Acrylic  
* Tested by an accredited independent lab according to UL specs.

Ballistic Products

<table>
<thead>
<tr>
<th>Protection Level</th>
<th>Thickness (mm)</th>
<th>Plies</th>
<th>Kg/m²</th>
<th>Light Transmission</th>
</tr>
</thead>
<tbody>
<tr>
<td>PALSHIELD 318 (UL1-750*)</td>
<td>19mm</td>
<td>3</td>
<td>23.9</td>
<td>88%</td>
</tr>
<tr>
<td>PALSHIELD 425 (UL2-1000)</td>
<td>25.4mm</td>
<td>4</td>
<td>31.7</td>
<td>72%</td>
</tr>
<tr>
<td>PALSHIELD 432 PC (UL3-1250)</td>
<td>32mm</td>
<td>4</td>
<td>39.5</td>
<td>67%</td>
</tr>
<tr>
<td>PALSHIELD 432 PMMA (UL6-1250**)</td>
<td>32mm</td>
<td>4</td>
<td>39.5</td>
<td>78%</td>
</tr>
</tbody>
</table>

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Testing Std. Reference  
ASTM F1915-05 Standard Test Method for Glazing for Detention Facilities  
HP White TP-0500-03 Transparent Material for Use in Forced Entry or Containment Barriers  
UL 752 Bullet Resistant Equipment

Dimensions* (mm)  
Width: 1220, Length: 1830, 2440  
Colors  
Clear, bronze, grey

Manufacturer’s Limited Warranty

PALSHIELD offers a 7-Year manufacturer’s limited warranty against coating failure, structural delamination, yellowing, and loss of light transmittance. Visit www.Palram.com/PALSHIELD for complete warranty and technical details.

Layer Detail

Polycarbonate with abrasion-resistant outer surface

Adhesive

Core made of single or multiple plies of polycarbonate, and or acrylic

Adhesive

Polycarbonate with abrasion-resistant outer surface

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