

TRANSPARENCY BULLETIN

WINDSHIELDS, WINDOWS, CANOPY AND BLAST BARRIER

Boeing AH-64 Apache



PPG Aerospace – Transparencies is a leading and experienced manufacturer of windshields, canopies, windows, blast barriers and specialty transparencies for military applications. With a broad range of capabilities, PPG is able to design and produce advanced-technology transparencies to meet the demanding requirements of military air and surface operations.

PPG offers a variety of transparent structural materials to meet specific design and performance requirements. **HERCULITE®** aerospace glass offers impact and thermal shock resistance as well as high load-carrying capabilities. **Herculite® II** aerospace glass provides superior strength and durability. Special-composition glasses incorporate enhanced optical properties such as high light transmittance. Plastic substrate materials include acrylic that is strong and lightweight, and polycarbonate that has superior impact resistance and a high strength-to-weight ratio. PPG proprietary interlayers bond the plies together and provide ballistic properties, bird-impact resistance and pressure “failsafe” capability. In-house capabilities allow PPG to engineer and produce interlayers specially tailored to aerospace applications.

PPG offers advanced coatings that protect transparencies and aircrews from various operational or environmental threats. **SIERRACOTE™**, **NESA®** and **NESATRON®** electrical heating systems provide anti-ice/anti-fog protection. Other PPG coatings and technologies offer low-observables performance, solar heat reduction, laser protection and electromagnetic pulse (EMP) shielding. These technologies are designed to be compatible with night vision systems.

PPG transparencies have flown numerous military missions. The company is a leader in its transparency technical capabilities and infrastructure, OEM and operator support, and ability to supply parts worldwide on a timely and affordable basis.

Additional Information

Details on pricing, warranty and delivery are available by contacting your PPG Aerospace – Transparencies sales representative or customer service representative.

Main Windshields

Features	Benefits
Glass Plies	<ul style="list-style-type: none"> • Structural strength • Demonstrated durability • Excellent maintainability
<i>Herculite®</i> Aerospace Glass	<ul style="list-style-type: none"> • Chemical, abrasion and scratch resistance • Superior optical quality • High load-carrying capabilities • Excellent resistance to foreign object damage • Resists thermal shock
<i>Nesatron®</i> Anti-ice Heating System	<ul style="list-style-type: none"> • Full-coverage heating • Excellent heating uniformity • Optical clarity • No failures from localized heating • Graded heat zones

Side Window Overhead Canopy

Features	Benefits
Aerospace-Qualified Stretched Acrylic	<ul style="list-style-type: none"> • Lightweight

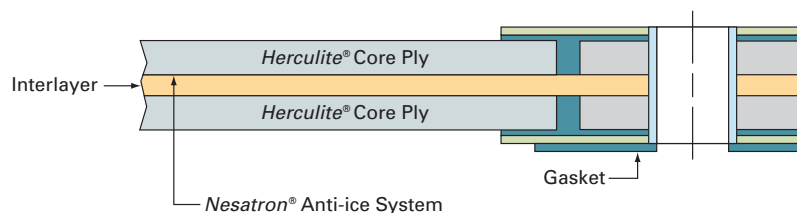
Blast Barrier

Features	Benefits
Advanced Composite Laminate	<ul style="list-style-type: none"> • Combines superior impact resistance of polycarbonate with strength of acrylic
Optical Urethane Interlayer	<ul style="list-style-type: none"> • Provides maximum adhesion for increased resistance to delamination and extends service life • Elasticity at low temperatures

BOEING AH-64 APACHE

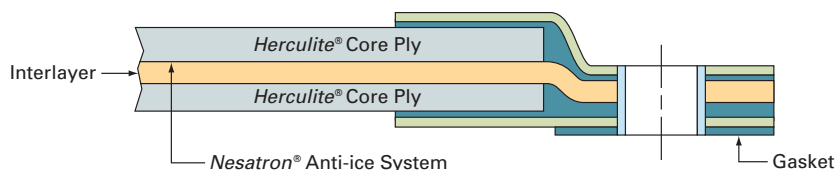
Main Windshield

Pilot

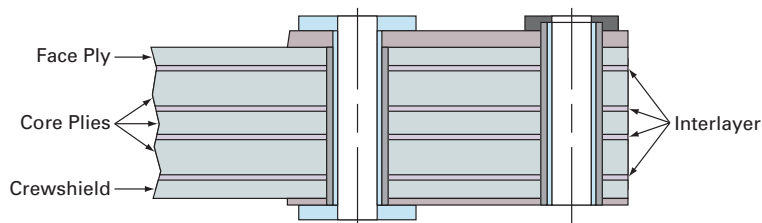


Main Windshield

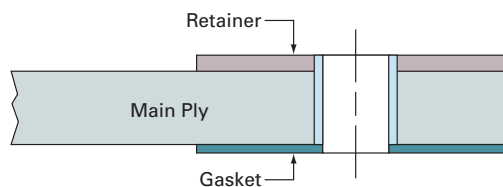
Copilot



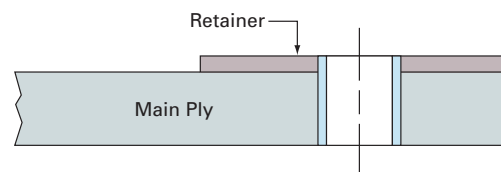
Blast Barrier



Overhead Canopy



Side Window



Part Numbers

Transparencies	U.S. National Stock Number	Boeing Part Number
Main Windshield, Pilot	1560-01-170-7474	7-311112015-19
Main Windshield, Copilot	1560-01-170-7475	7-311112015-17
Blast Barrier	1680-01-161-1182	7-311920210
Lower/Forward Side Window, Right-Hand	1560-01-160-1296	7-311112015-9
Lower/Forward Side Window, Left-Hand	1560-01-160-1297	7-311112015-7
Upper/Aft Side Window, Right-Hand	1560-01-160-6768	7-311112015-13
Upper/Aft Side Window, Left-Hand	1560-01-163-5182	7-311112015-11
Overhead Canopy	1560-01-163-9621	7-311112015-15

For the PPG Aerospace transparencies sales office or application support center nearest you, please visit our website at www.ppgaerospace.com.



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