

TECHNICAL DATA

COCKPIT WINDOWS

747-100/200/300/400 Airplanes



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PPG Aerospace – Transparencies is a leading and experienced source for original-equipment and replacement windshields and side cockpit windows for airplanes produced by The Boeing Company. As the sole manufacturer of original-equipment cockpit windows for 747-100/200/300/400 airplanes, PPG is the only supplier able to provide the latest enhancements for replacement windshields and glass or lightweight glass-faced acrylic side cockpit windows.

Operators know that PPG transparencies have outstanding service life, as shown in PPG in-service reliability studies. The PPG main windshield for the 747 is the most reliable windshield made today and sets the standard against which all other windows are measured.

PPG offers two designs for the No. 2 and No. 3 side cockpit windows for the 747: all-glass and lightweight glass-faced acrylic windows. The lightweight glass-faced acrylic configuration is a variant of the original cockpit window with proven reliability and offers weight savings of up to 37 pounds.

Operators can buy new replacement windshields and side cockpit windows from PPG and enjoy the convenience and time savings of buying directly from a single source for their entire fleet of airplanes produced by The Boeing Company.

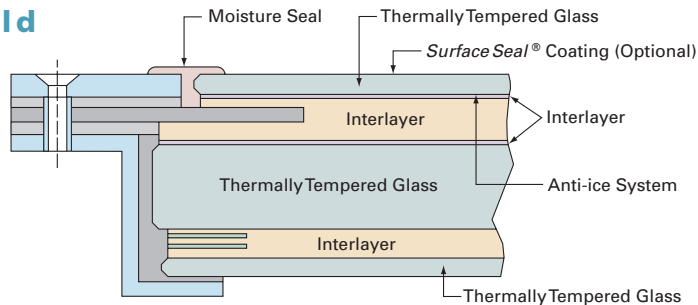
Main Windshield

Features	Benefits
Center Structural Glass Ply with External and Internal Nonstructural Glass Plies	<ul style="list-style-type: none"> Encapsulation of structural ply protects the windshield from structural damage
Thin Thermally Tempered Glass Inboard Ply	<ul style="list-style-type: none"> Acts as a barrier to eliminate potential for glass particles to fly off into the cockpit in the event of a bird strike
Triple Fail-Safe	<ul style="list-style-type: none"> Passes fail-safe pressure test with all glass plies broken Cold dispatch of aircraft in conditions with window heat nonfunctional
Urethane Interlayer	<ul style="list-style-type: none"> Provides maximum adhesion for resistance to delamination and extends service life Elasticity at low temperatures reduces potential for delamination and cold chipping
Nesatron® Anti-ice System	<ul style="list-style-type: none"> Superior heat uniformity and optics

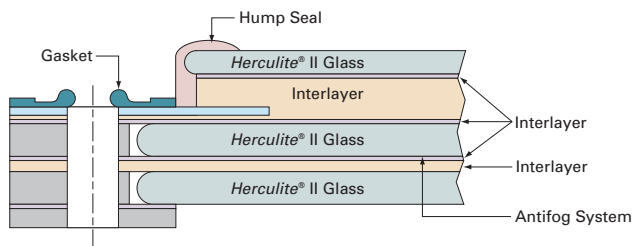
No. 2 and No. 3 Side Cockpit Windows

Features	Benefits
Two Robust Design Options	<ul style="list-style-type: none"> All-glass cross section proven on many other aircraft programs Lightweight glass-faced acrylic configuration has flown on 747 since 1983
Outboard Glass Ply	<ul style="list-style-type: none"> Chemical and abrasion resistance
Two Structural Plies	<ul style="list-style-type: none"> Both are fail-safe for pressurization load
Lightweight	<ul style="list-style-type: none"> Significant weight savings compared with previous configurations
Urethane Interlayer	<ul style="list-style-type: none"> Provides maximum adhesion for resistance to delamination and extends service life Elasticity at low temperatures reduces potential for delamination and cold chipping
Antifog Systems	<ul style="list-style-type: none"> Superior heat uniformity and optics
Full Interchangeability	<ul style="list-style-type: none"> Designed for use on all 747 models Reduced inventory and related costs

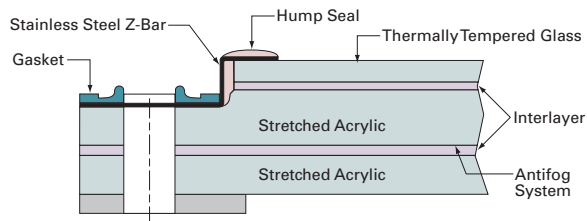
Main Windshield



No. 2 and No. 3 Side Cockpit Windows
Glass



Lightweight Glass-Faced Acrylic



Part Numbers

Pilot Windshield

With <i>Surface Seal</i> Coating	60B10028-11
Without <i>Surface Seal</i> Coating	60B10028-5
With <i>Surface Seal</i> Coating (ramp and handle, new terminal block)	60B10028-23
With <i>Surface Seal</i> Coating (new terminal block)	60B10028-27

Copilot Windshield

With <i>Surface Seal</i> Coating	60B10028-12
Without <i>Surface Seal</i> Coating	60B10028-6
With <i>Surface Seal</i> Coating (ramp and handle, new terminal block)	60B10028-24
With <i>Surface Seal</i> Coating (new terminal block)	60B10028-28

Pilot No. 2 Side Cockpit Window

Glass	141U4822-11
Lightweight Glass-Faced Acrylic	141500-13

Copilot No. 2 Side Cockpit Window

Glass	141U4822-12
Lightweight Glass-Faced Acrylic	141500-14

Pilot No. 3 Side Cockpit Window

Glass	141U4832-11
Lightweight Glass-Faced Acrylic	141600-13

Copilot No. 3 Side Cockpit Window

Glass	141U4832-12
Lightweight Glass-Faced Acrylic	141600-14

Hump Seal Repair Kit HSKBOEINGWB

NOTE: Rebuilt windshields and overhauled acrylic cockpit windows are manufactured to the latest design approved by The Boeing Company and supplied with the latest part numbers. PPG and Sierracin/Sylmar rebuild all prior configurations (dash numbers and revision letters).

SURFACE SEAL® Coating System

Surface Seal coating system by PPG is the supplemental windshield rain removal system approved by The Boeing Company for 747 airplanes and is standard on the latest engineering version of PPG original-equipment and replacement windshields for them. *Surface Seal* hydrophobic coating improves the ability of the windshield to shed water, providing the ultimate in visibility for pilots during wet conditions. *Surface Seal* coating system kits are available for field application.

Stocks Worldwide

With inventories of cockpit windows maintained worldwide, PPG is able to service customers from global stocking locations.

Ordering Information

Orders may be placed through PPG Aerospace's worldwide network of application support centers (ASCs). For the ASC nearest you, visit www.ppgaerospace.com.

In North America, call toll-free +1 (800) AEROMIX.

Pricing, warranty and delivery details are available from your PPG Aerospace – Transparencies sales representative.



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