

CTB COMMERCIAL THERMAL-BREAK
WINDOW SYSTEM

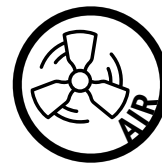
Aluminum Windows



QUALITY WINDOWS AND CERTIFIED
PERFORMANCE FOR COMMERCIAL STRUCTURES

FGIC/AAMA CERTIFIED

ALUMINUM WINDOWS



plyco.com

MAXIMUM STRENGTH

ALUMINUM WINDOWS

The PLYCO Triumph Commercial, pre-assembled aluminum Thermal Break windows save you time and money.

Bringing the strength and durability required for metal clad buildings, the aluminum frame and grids make this window stronger and more durable than other framing materials.

CTB500 Commercial

Aluminum Thermally Broken Windows

- Standard 5/8" insulated glass

CTBE500 Commercial

Aluminum Thermally Broken Windows

- Low-E 5/8" insulated glass with warm edge spacer and Argon fill



STRENGTH

Aluminum frame and sash make this window stronger and more durable than other framing materials.



REDUCE AIR FLOW

Full perimeter weather-stripping reduces air flow.



DURABLE PACKAGING

Doors are shipped with corner padding and fitted box for safer package handling.

Triumph Series Features

- FGIA/AAMA Certification Program Specifications AAMA/WDMA/CSA 101/I.52/A440-17
- Water resistance tested to ASTM E331
- Air penetration resistance for code compliance per NFRC 400/ASTM-E283
- Glass options include Low-E, tinted or tempered. CTBE is Low-E, argon filled with warm edge technology. High altitude optional.
- Security tested against forced entry, AAMA F588
- ASTM E330 structural performance testing to DP50 (60"x48") +/- 75 psf test loads
- Condensation resistance
- Quality control - all components and process
- Quality painted finish for years of performance
- Easy installation with different fin options for most wall applications
- FGIA accredited and inspected factory conditions for a superior, completely pre-assembled window
- Window tilt allows for easy cleaning, includes safety lock

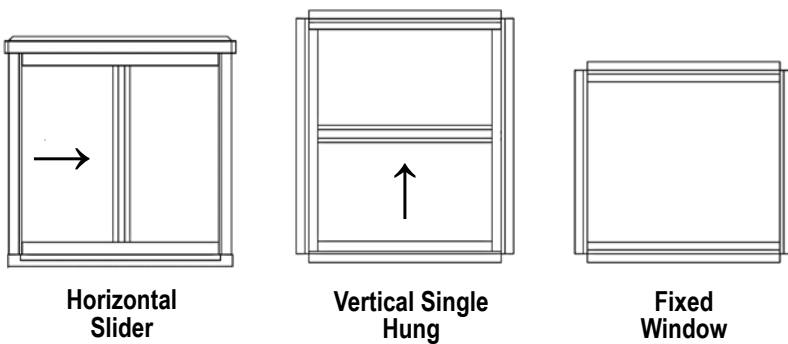
Commercial **Windows** Install Options



BEST POST-FRAME APPLICATION - STEP SAVER



WINDOW TYPES



PEMB Metal Frame Building Application (Sub-Frame System)



Available in:



Polar White



Hickory Moss



Bronze

TRIUMPH SERIES CTB500 WINDOWS

Glazing	
Options	Clear, Low-E, Tinted, Tempered, Safety Cat. II
Grids	Painted aluminum grids, mounted between glass
Framing	
Type	Aluminum, Thermally broken (Field-mulled when applicable)
Color Options	Polar White, Hickory Moss, Bronze AAMA 2603 Pre-finished
Trim Style	Step Saver, nailing flange or J-attached
Sashes	
Types	Horizontal slider fixed/vertical single hung/fixed light
Removable Sash	Sliding Sash (only)
Weather Stripping	
Sashes	Wool Pile/Vinyl Fin
Step Saver Trim	Foam-filled bulb
Recommended Applications	
	Agriculture Light Commercial Heated Facilities, Etc.
Series/Model	
	500 Series - Horizontal Slider Integrated Step Saver Trim 510 Series - Horizontal Slider applied trims 520 Series - Vertical Single Hung applied trims 540 Series - Fixed Lite standard frame applied trim 550 Series - Fixed Lite heavy-duty frame applied trim

Sizes	2/0 x 2/0 3/0 x 2/0 3/0 x 4/0 4/0 x 2/0 4/0 x 4/0 5/0 x 2/0 5/0 x 4/0 6/0 x 2/0 6/0 x 4/0 2/0 x 3/0 3/0 x 3/0 3/0 x 5/0 4/0 x 3/0 4/0 x 5/0 5/0 x 3/0 5/0 x 5/0 6/0 x 3/0 6/0 x 5/0 SPECIAL SIZES MAY BE ORDERED. (VSH up to 4/0 x 6/0)	
Overall Dimensions	Typical out-to-out 4/0 x 3/0 frame size is 47 1/2" x 35 1/2" (Rough Opening 48" W x 36" H)	
Mulling Option	Mulling not available in the CTB500 SHS. If mulling needed, see CTB510HS, CTB520 VSH	
Screens	All operable windows include an aluminum framed, nylon mesh removable insect screen.	
FRAMES/OPERATION		
Depth	2 3/8" frame - 3 15/32" overall with co-extruded exterior Step-Saver casing trim.	
Material	Aluminum 6063 T-5, sash minimum thickness .050", outer frame minimum thickness .062"	
Joints	Die-cut notches, with expanded cellular foam gaskets.	
Thermal Break	Two-part polyurethane, poured and de-bridged. Meets AAMA TIR-A8-16 standards.	
Latch	Face mounted, die-cast zinc, powder coated black.	
Weather-Strip	Double wool pile with vinyl fin at all contacts.	
Glazing	IGCC Certified with Glazing Boot	
INSULATED GLASS UNITS	5/8" double sealed insulating annealed glass units, 5/8" thickness with or without grids. (FL units 3/4") All standard glass is clear, annealed, air filled with standard aluminum spacer. Load resistance/thickness of glass of the insulated glass units is determined by ASTM E-1300. See Series CTBE500 for Lo-E. Tints available: Gray, Bronze	
TESTING		
Operating Force	✓ ASTM-E2068	<25 lbf
Air Infiltration	✓ ASTM-E283	±0.20 CFM/ft
Water Penetration	✓ ASTM-E331	No leakage @ 4.60 psf
Forced Entry Penetration	✓ AAMA F588	Grade 10
De-Glazing Test	✓ ASTM-E987	70 lbf
Wind-Storm Resistance*	✓ ASTM-E330-02(2010)	DP 40 (72x60) - 60 psf test loads
Wind-Storm Resistance*	✓ ASTM-E330-02(2010)	DP 50 (60x48) - 75 psf test loads
Clear Thermal Performance	✓ NFRC 100-2014	U factor = 0.59 SHGC = .65
Low-E Thermal Performance	✓	U factor = .38 SHGC = .35

*Listed CPD #'s at NFRC.org

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