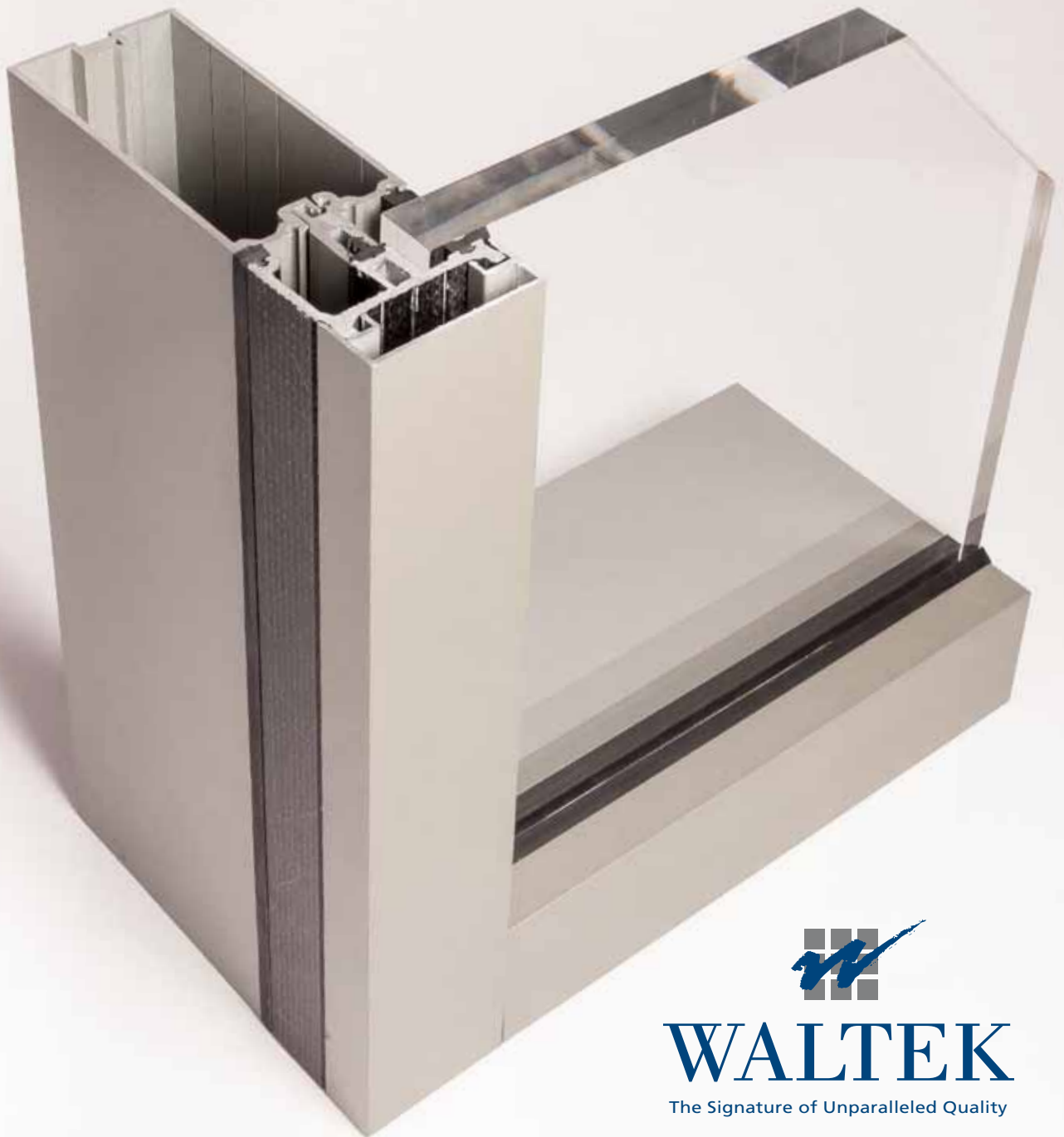


7000 SERIES, UMAX, AND UMAX PLUS CURTAINWALL SYSTEMS



WALTEK

The Signature of Unparalleled Quality

7000 Series Umax and Umax Plus Curtainwall Systems

WALTEK is proud to introduce our latest offering to the architectural and fenestration community to address the ever increasing energy efficiency requirements of today's façade systems. WALTEK's incorporation of a fiberglass, thermal separating pultrusion pressure plate with two standard (custom glazing thickness also available) glazing thickness options, 1 inch dual glaze or 1 ¾ inch triple glaze, further improves our 7000 Series curtainwall system's U Factor to meet and exceed today's stringent energy code requirements including the International Energy Conservation Code (IECC), ASHRAE/IESNA 90.1, 189.1. Using the chart provided herewith, design professionals can quickly establish achievable performance levels for WALTEK's standard 7000 Series Curtainwalls along with our newly introduced Umax and Umax Plus curtainwalls by referencing either the specified center of glass U value for the desired glazing or using the composite U factor of the glazing system to guide the selection of the glass. To learn more about WALTEK's 7000 Series curtainwall and our Umax or Umax Plus options and the benefits they can provide to your project please contact us at 513-577-7980 or on the worldwide web at www.waltektd.com

CLIMATE ZONE CHART

If you are running a whole building simulation, we understand you may need a few options as a starting point. The following chart is intended to provide a basic starting place.

How To Use This Chart

1. Determine your climate zone

ASHRAE Standard 90.1 breaks the United States into zones, to find your project's zone see the Climate Zone Map.

2. Understand the assumptions

Complying with or exceeding ASHRAE involves multiple parameters. To provide a starting point we've made the following assumptions and based calculations on:

- rough openings, not actual sizes
- commercial windows, not residential
- 40% glass to wall ratio
- 2/3 vision, 1/3 spandrel glass area, spandrel excluded

LEED v3, Energy & Atmosphere Prerequisite 2, requires a 10% improvement over ASHRAE Standard 90.1-2007. The resulting assembly performance requirements for each climate zone are as follows:

Climate Zone 1: U-Factor 1.08 / SHGC 0.22

Climate Zone 5: U-Factor 0.40 / SHGC 0.36

Climate Zone 2: U-Factor 0.63 / SHGC 0.22

Climate Zone 6: U-Factor 0.40 / SHGC 0.36

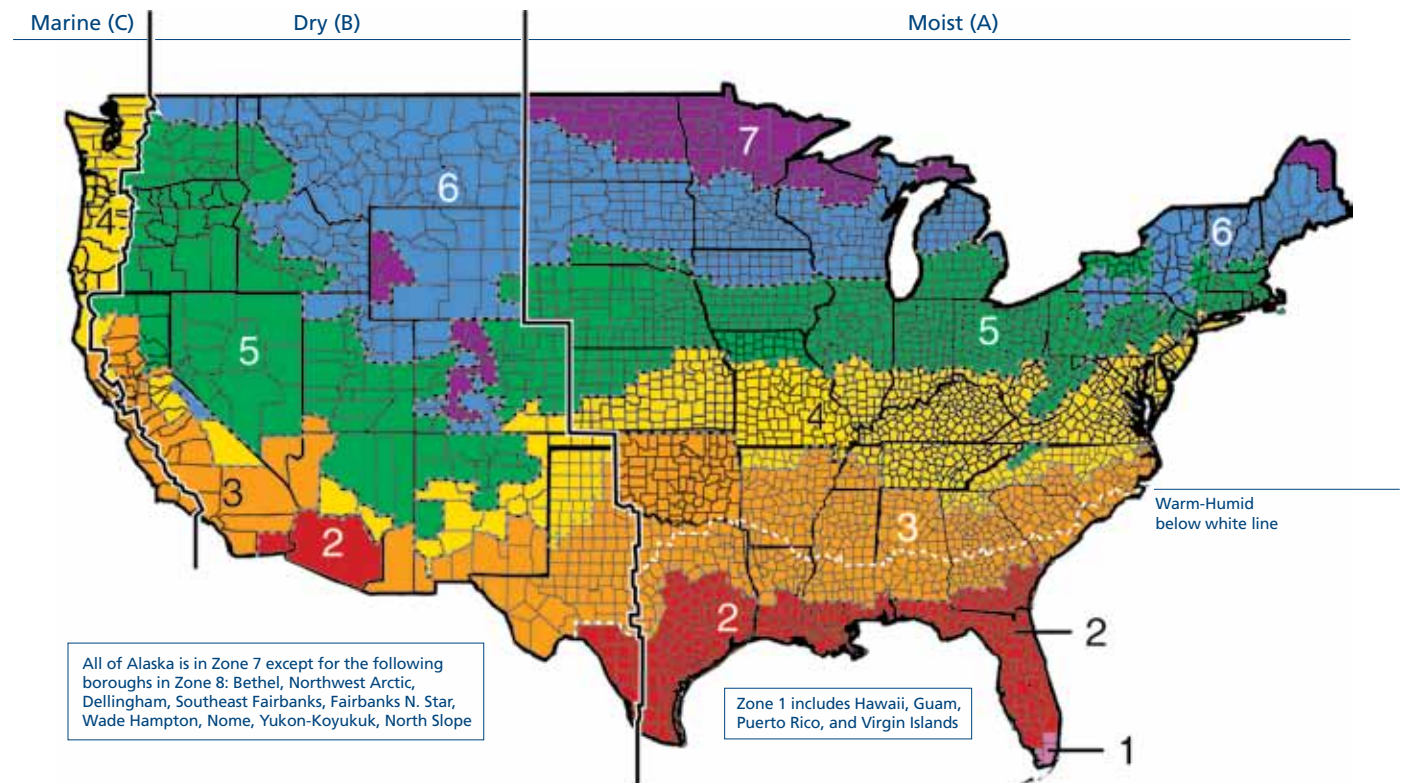
Climate Zone 3: U-Factor 0.54 / SHGC 0.22

Climate Zone 7: U-Factor 0.36 / SHGC 0.40

Climate Zone 4: U-Factor 0.45 / SHGC 0.36

Climate Zone 8: U-Factor 0.36 / SHGC 0.40

U-Value and Solar Heat Gain Coefficient (SHGC) are maximums based on the assumptions. Note: Assembly performance = glass + framing system.



Figur 301.1 Climate Zone Map Excerpted from the 2009 International Energy Conservation Code; Copyright 2009. Washington, D.C.: International Code Council. Reproduced with permission. All rights reserved. www.ICCSAFE.org

WALTEK 7000, 7000 Umax & 7000 Umax Plus Systems Independently Tested U Factors Per:

AAMA 507-12, NFRC 100 2010, NFRC 200 2010

Center of Glass U-Value	7000 Series Assembly U-Factor <i>(Conventional)</i>	7000 Series Umax Assembly U-Factor <i>(Pultrusion/Double Glaze)</i>	7000 Series Umax Plus Assembly U-Factor <i>(Pultrusion/Triple Glaze)</i>
.48	.59	.54	
.46	.57	.52	
.44	.56	.51	
.42	.54	.49	
.40	.52	.47	
.38	.51	.46	
.36	.49	.44	
.34	.47	.42	
.32	.46	.41	.39
.30	.44	.39	.37
.28	.43	.37	.35
.26	.41	.36	.34
.24	.39	.34	.32
.22	.38	.32	.30
.20	.36	.31	.29
.18			.27
.16			.25
.14			.23
.12			.22
.10			.20
.08			.18
.06			.17
.05			.16

Project
Indiana University Global Studies
Location
Bloomington, Indiana
Architect
Ennead / Browning Day Mullins Dierdorf
Contractor
Messer Construction

WALTEK Products
7000 Umax Curtainwall and Window Wall



WALTEK'S SERIES 7000 FRAMING SYSTEMS THERMAL PERFORMANCE OPTONS

WALTEK'S 7000 SERIES

**Aluminum Framing System
Standard Profile Sizes**

Captured (shown),
Vertical Butt-joint,
Horizontal Butt-Joint,
&
Four side structurally glazed
versions of this system
are available

WALTEK'S 7000 SERIES - UMAX

**Aluminum & Fiberglass System
Standard Profile Sizes**

Captured (shown),
Vertical Butt-joint,
Horizontal Butt-Joint,
&
Four side structurally glazed
versions of this system
are available

WALTEK'S 7000 SERIES - UMAX PLUS

**Aluminum & Fiberglass System
Standard Profile Sizes**

Captured (shown),
Vertical Butt-joint,
Horizontal Butt-Joint,
&
Four side structurally glazed
versions of this system
are available

System and component design notes:

Project specific custom profiles and sizes are available upon request.

Projecting sunshades and/or light shelves available upon request.

Project specific custom interior sill, trim, and shade pocket profiles available upon request.

Baseline Air and Water Performance Levels for all WALTEK Series 7000 Framing Systems

Air infiltration: 0.06 cfm/sqft. maximum infiltration when tested in accordance with differential static air pressure of 6.24 lbs./sqft.

Water penetration: No uncontrolled water on interior face of any one component when tested in accordance with:

- ASTM E 331 (at a static air pressure of 12 lbs/sq.ft.)
- AAMA 501.1 (at a dynamic air pressure of 12 lbs/sq.ft.)

Higher performing versions are available for specific project needs.

The above information is for a typical application. Customization of components and performance level are available to meet specific design criteria.



WALTEK

The Signature of Unparalleled Quality

Please contact us if you would like to learn more about WALTEK or discuss project-specific details.

WALTEK Company, Ltd.

2130 Waycross Road • Cincinnati, Ohio 45240

P - 513.577.7980 • F - 513.577.7990

www.waltekld.com