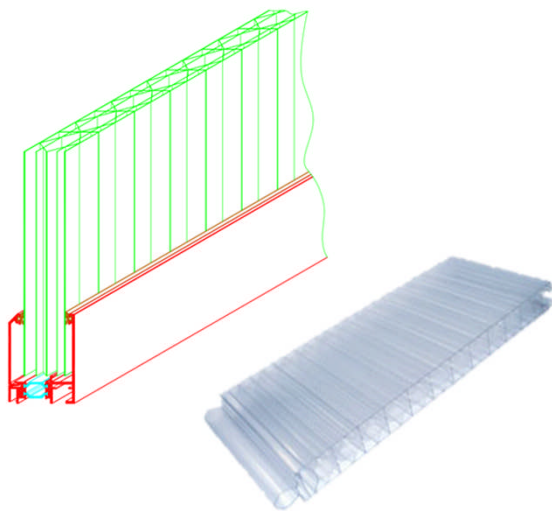# Solutions In Polycarbonate, LLC

Product Data Sheet

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WindowTherm® Wall System
Translucent Vertical Wall Panel System

Designed for application flexibility

What it is an WindowTherm Wall System…

- Thermally broken frame design using the latest in extruded Polyamide technology

- Ability to accept tongue & groove multiwall polycarbonate glazing thickness with primary glazing 40mm in thickness, with 20mm & 60mm thicknesses available.

- Vertical panel heights in windows up to 39' tall long to minimize horizontal breaks

- Excellent diffused light transmission for interior daylighting and the reduction of lighting costs

- Superior insulating performance of glazing panel combined with the frame's thermal break design to further reduce building operating costs through reductions in heating and cooling costs

- WindowTherm Wall panel systems offers great performance values of SHGC to reduce building heat gain

- Translucent glazing offers softer daylighting for working environments and avoids many safety issues related to glare of sunlight

What is its value…

- Designed for longer unbroken window spans, thus reducing framing and the installation costs, increasing uniform natural daylighting to interior areas.

- Design not only allows for wide unbroken spans, also allows for alternate application designs for height and width, especially those applications that need to match other existing windows or to achieve a special look for the building structure.

- Data from the window designs can be placed into a variety of energy modeling tools to determine real energy savings in dollars.

- With addition of diffuse natural daylighting projected deeper into the building and the use of sensors integrated into the lighting system, the WindowTherm wall system can produce additional dollar savings in electricity expense.

WindowTherm Wall System Product Specifications

System designs & widths	Window system configurations	Vertical applications with the ability to make outside and inside 90° or variable degree corners.
System heights	Window system height design range	2' to 39' feet tall. (Taller than 39' applications achieved with horizontal joint)
System models	Model	WindowTherm 40
Weights	Framing	1.43 lbs./lf
	Glazing panel	40mm panel = 0.82 lbs./sf
	System Weight (WindowTherm 40 System vs. framed insulated glass Unit)	2.25 lbs./sf vs. 7.5 lbs./sf
Solar performance	U-value (Thermal Conductivity) VT (Visible Transmittance)	.24 System U-Value (System) Clear 49% Opalescent 38% (Glazing)
Framing finish options	Anodized, Painted or Mill Finishes	Consult factory for various finish options and colors

Glazing material & options: Colors:	Translucent multiwall polycarbonate panels with interlocking tongue & groove connections to adjacent panels.	40mm Tongue & Groove interlocking panels	
		Color	LT%
		Clear	49
		Opalescent	38

WindowTherm® is a Registered Trademark of Solutions in Polycarbonate, LLC

Benefits of WindowTherm Technology:

The WindowTherm Wall system is an Innovative adaption of existing materials, glazing and framing systems, to provide a proven source of non-glare natural daylighting and real dollar energy reduction system through a highly insulating multiwall glazing.

The WindowTherm 40 system can be integrated with a current lighting control and sensor technology to further reduce building energy and electric costs.
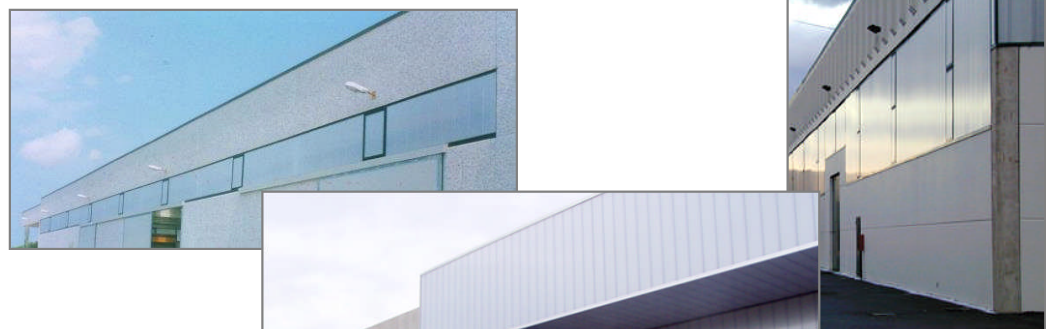
Testing and Standards Compliance

	Test	Compliance Standard	Glazing Material
Testing	U-Factor	NFRC 100	(Values subject to glazing color selection)
	SHGC	NFRC 200	
	Light Transmittance	ASTM 1003	
	Fire Ignition	ASTM D1929	Flash 779° F Spontaneous 1054° F
	Fire Burn Rate	ASTM D635	CC1
	Interior Flame Spread	ASTM E84	Class A
	Sound Transmission Loss - STC	ASTM E90	23 Db

The above tests were performed and verified by certified independent third parties. If you have questions on a specific test or product, please contact a Solutions In Polycarbonate Representative. Solutions In Polycarbonate, LLC does not assure compliance with any plans or specifications and it remains the responsibility of the customer to confirm compliance of the product with applicable local, state, and national codes and other laws or regulations.

Product configuration possibilities:

System width spans

System height spans