

NEW FROM GUARDIAN

Glass Analytics

ONLINE SUITE OF ENGINEERING AND ANALYTIC TOOLS FOR GLASS

Guardian Industries has developed easy-to-use, advanced software for glass and glazing system analysis. These online tools offer a comprehensive suite of engineering and analytical reports that demonstrate the advantages of high performance glass in building facades.

Guardian Glass Analytic Tools

- *Customize* product options using the *Performance Calculator*
- *Analyze* building performance using the *Building Energy Calculator*
- *Visualize and specify* using Guardian's *BIM Generator*

Customize

SunGuard's **Performance Calculator** simplifies creation of glass make-ups through a simple point-and-click, web-based interface. You can use the calculator to model the thermal and optical properties for a glass make-up ranging from monolithic uncoated glass to highly complex combinations of float glass substrates, coatings and interlayers. Easily create client-ready reports comparing glass options.

		outdoor side	
OUTSIDE 1 2 3 4 5 6 INSIDE	LITE	Clear 1/4" = 6mm	1 - _____ 2 - Guardian SunGuard SNX 62/27
	GAP	100% Air, 1/2" = 12mm	
	LITE	Clear 1/4" = 6mm	3 - _____ 4 - _____
	PVB	0.030" Saflex® Clear PVB	
	LITE	Clear 1/4" = 6mm	5 - _____ 6 - _____
	indoor side		

Analyze

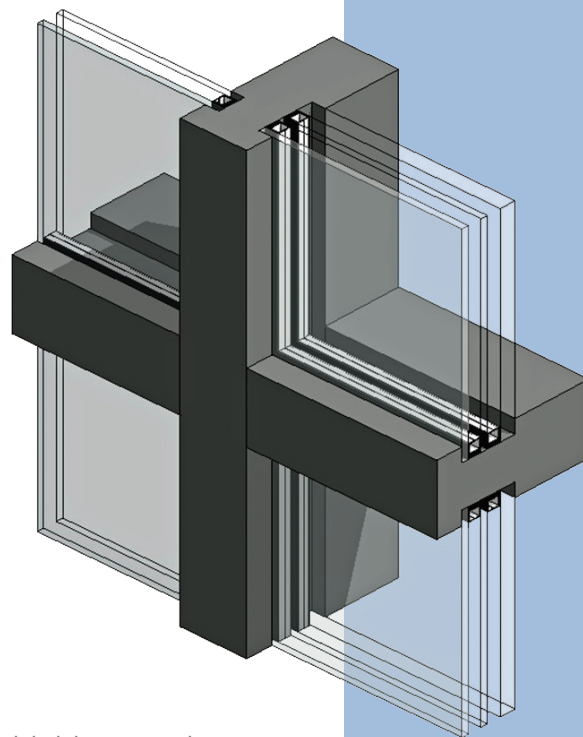
The **Building Energy Calculator** uses the make-ups created in the Performance Calculator to compare energy cost, consumption and financial payback information based on hourly simulations of glazing options, building parameters and project location. The Building Energy Calculator can be used as a schematic design tool to compare annual energy costs for a variety of exterior envelope scenarios.

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Visualize

The Guardian **BIM Generator** provides thermal and optical performances of the project specific custom IG makeups. It is highly detailed content with visibility settings to control the level of detailing depending on the scale of the view. The content is created for Revit 2013 to take advantage of the material analytics within Revit for energy simulations. Parameters give the ability to control the dimensions of the spacer systems as well as control the glass bite of the unit. Any fabrication needs for heat treatment or lamination can be specified which allows for a much more detailed glazing schedule and material takeoffs.



NEW BIM Generator at a glance:

- Models project specific glass make-ups from simple to highly complex with unprecedented detail and control.
- Toggle from accurate reflectance and transmission colors with accurate reflections for amazing renderings.
- Populates content with both thermal and optical data based on installation slope for a complete picture of glass performance.
- Generates standard or custom BIM content for the entire SunGuard product line.
- Models inboard and outboard lites for accurate material takeoffs.
- Content available as Revit curtainwall panels or window-based generic models.
- Only available at SunGuardGlass.com from Guardian.

To learn more, email us at BIMhelp@guardian.com,
call us at **1-866-GuardSG (482-7374)** or
visit us online www.SunGuardGlass.com



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