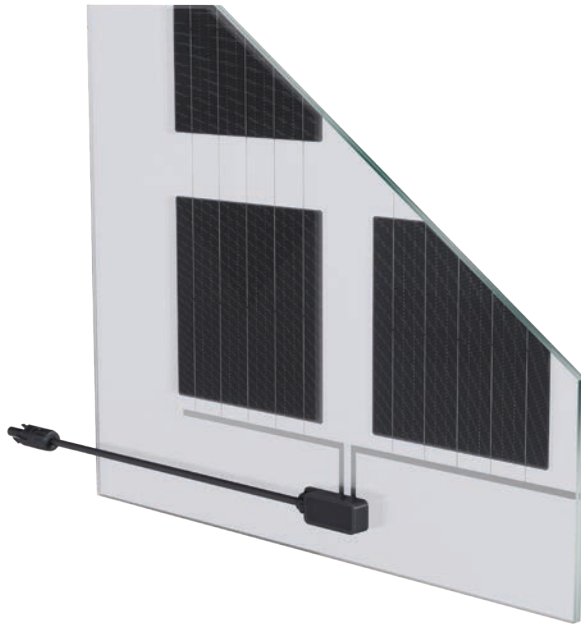




Designing With Mitrex BIPV: Solar Cell Layout Options

Glass Types

Solar Glass¹ Laminated Glass

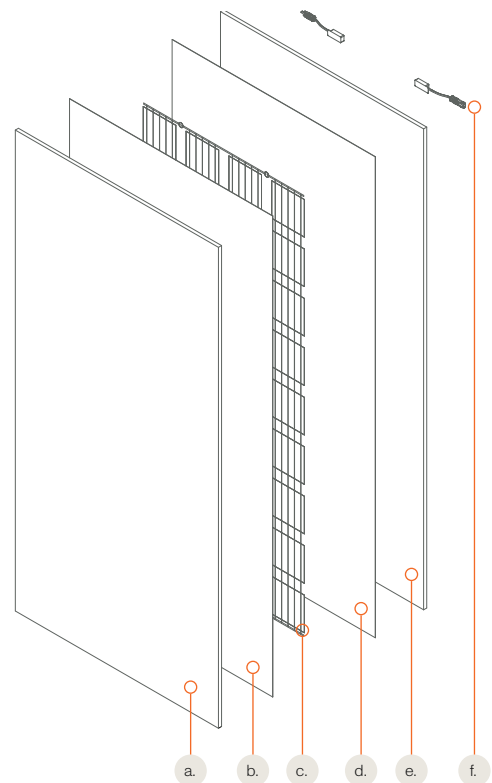


Laminated glass redefines architectural possibilities with its unmatched strength, impact resistance, and smooth, exquisite finish. In today's architectural world, laminated glass is the cornerstone of current architecture, seamlessly fusing safety and style. Its benefits range from improving structural integrity to offering soundproofing and security.

These Laminated Glass layers can exhibit various configurations such as the following:

Laminated Solar Glass Layers

	• Imperial	• Metric
a./e. Low Iron Glass	0.11in (Opaque only), 0.15in, & 0.23in	3mm (Opaque only), 4mm, & 6mm
b./d. Encapsulant	Ethylene Vinyl Acetate: Good radiation transmission and low degradability to sunlight as an encapsulating agent or other interlayer specified.	
c. Solar Cells	Mono-crystalline (6.25in x 6.25in)	Mono-crystalline (158.75mm x 158.75mm)
f. Junction Box	Junction box is an enclosure where the PV strings are connected through bypass diodes. The cables carry MC4 connectors and work as PV outputs.	



Glass Types

Solar Glass² Double Layer Insulated Glass Unit (IGU)

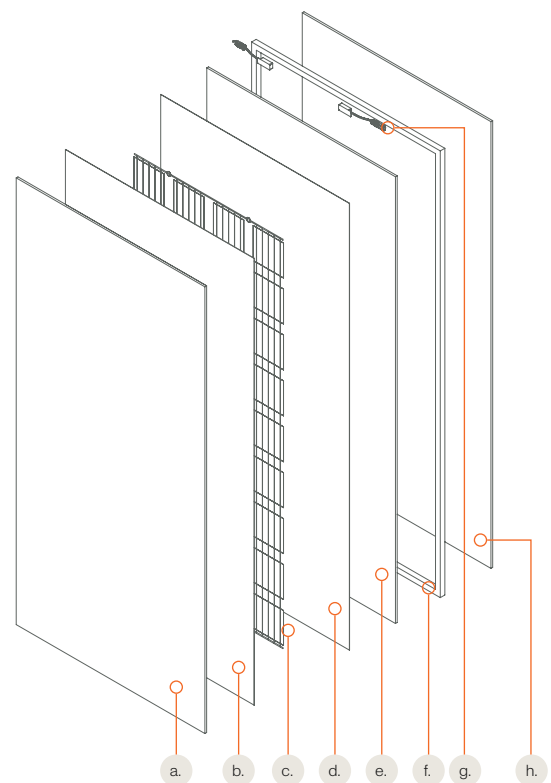


As architectural solutions progress, Insulated Glass Units (IGUs) become a revolutionary invention that redefines the purpose of windows and facades. These state-of-the-art units, made of several glass panes divided by an insulating gas-filled gap, transform buildings with their increased comfort, noise reduction, and greater thermal efficiency. IGUs are a crucial component of sustainable and cozy living spaces since they improve energy efficiency while also adding a contemporary aesthetic touch.

This Insulated Glass Units features a Laminated Solar Glass as a first layer plus a spacer and a second Laminated Solar Glass layer. These layers can exhibit various configurations, such as the following:

Double Layer Insulated Glass Unit (IGU) Layers

	• Imperial	• Metric
a./e./h. Low Iron Glass	0.11in (Opaque only), 0.15in, & 0.23in	3mm (Opaque only), 4mm, & 6mm
b./d. Encapsulant	Ethylene Vinyl Acetate: Good radiation transmission and low degradability to sunlight as an encapsulating agent or other interlayer specified.	
c. Solar Cells	Mono-crystalline (6.25in x 6.25in)	Mono-crystalline (158.75mm x 158.75mm)
f. Junction Box	Junction box is an enclosure where the PV strings are connected through bypass diodes. The cables carry MC4 connectors and work as PV outputs.	
g. Spacer	0.47in. (0.23in to 0.98in)	12mm. (6mm to 25mm)



Glass Types

Solar Glass³ Triple Layer Insulated Glass Unit (IGU)

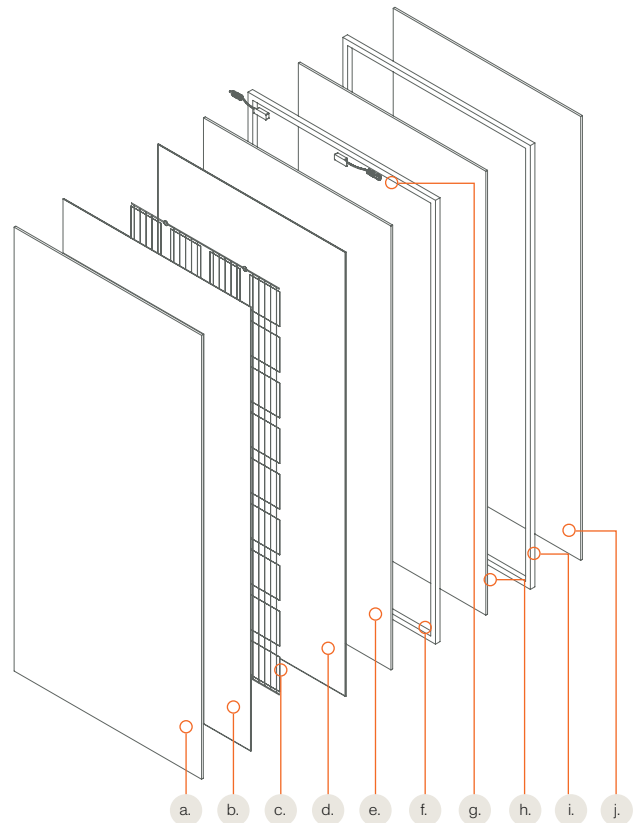


This technique, which consists of three layers of glass divided by insulating voids, raises the bar for environmental sustainability, soundproofing, and thermal insulation. For the most demanding architectural designs and ecologically sensitive settings, the triple-layer IGU is more than just a window—it’s a testament to excellent performance, providing enhanced comfort, noise reduction, and exceptional energy efficiency.

This Insulated Glass Units features a Laminated Solar Glass as a first layer, a spacer, a second Laminated Solar Glass layer and a third Laminated Glass layer. These layers can exhibit various configurations, such as the following:

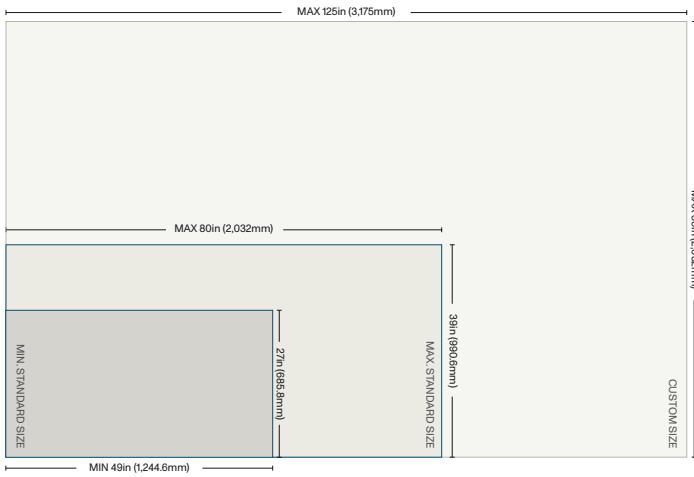
Double Layer Insulated Glass Unit (IGU) Layers

	• Imperial	• Metric
a./e./h./j. Low Iron Glass	0.11in (Opaque only), 0.15in, & 0.23in	3mm (Opaque only), 4mm, & 6mm
b./d. Encapsulant	Ethylene Vinyl Acetate: Good radiation transmission and low degradability to sunlight as an encapsulating agent or other interlayer specified.	
c. Solar Cells	Mono-crystalline (6.25in x 6.25in)	Mono-crystalline (158.75mm x 158.75mm)
g. Junction Box	Junction box is an enclosure where the PV strings are connected through bypass diodes. The cables carry MC4 connectors and work as PV outputs.	
f./i. Spacer	0.47in. (0.23in to 0.98in)	12mm. (6mm to 25mm)



Glass Shapes

Rectangular



- Standard And Custom Sizes



- Flat Standard Size

Mitrex standard flat glass panels serve as versatile canvases for integrating various solar cell arrangements, providing a spectrum of options for harnessing solar energy.

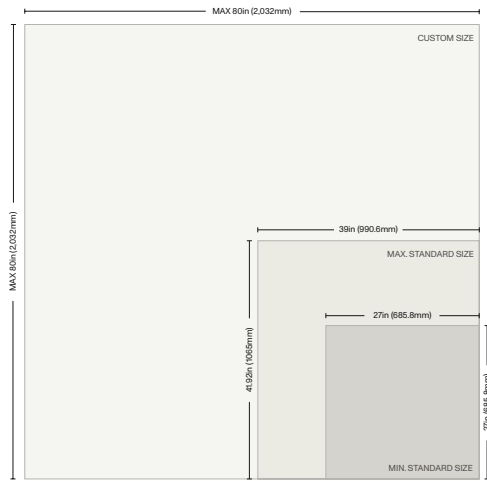


- Curved Standard Size

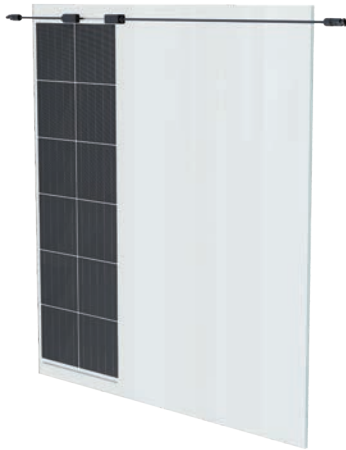
Mitrex standard curved glass panel, set at a subtle 20-degree angle, offers a sleek and contemporary aesthetic while also providing a unique platform for solar cell arrangements. Different solar cell configurations can be strategically placed across the glass surface, maximizing sunlight absorption throughout the day.

Glass Shapes

Square

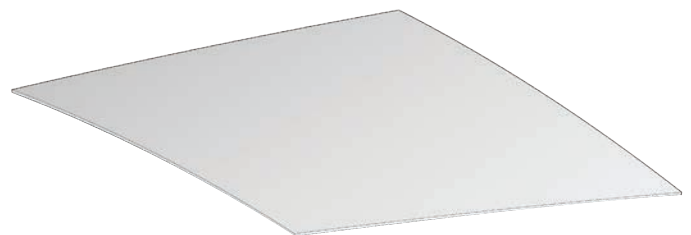


- Standard And Custom Sizes



- Flat Standard Size

Mitrex's square-shaped flat glass panels offer a flexible platform for incorporating different configurations of solar cells, presenting a wide range of possibilities for capturing solar energy.



- Curved Standard Size

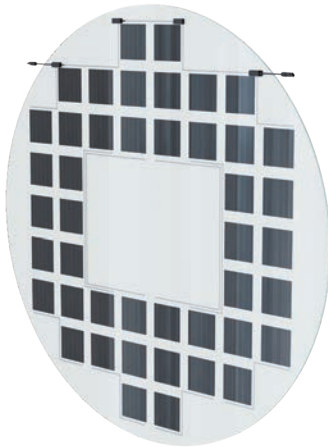
Mitrex's square-shaped curved glass panels, angled at 20 degrees, offer a sleek design and a unique platform for placing solar cells strategically, maximizing sunlight absorption.

Glass Shapes

Circle

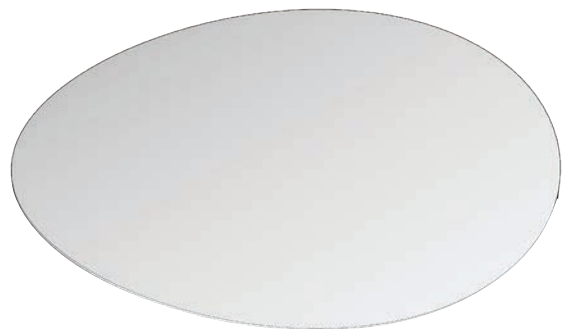


- Standard And Custom Sizes



- Flat Standard Size

Mitrex's circular-shaped flat glass panels provide versatility for integrating various arrangements of solar cells, offering numerous opportunities to capture solar energy.

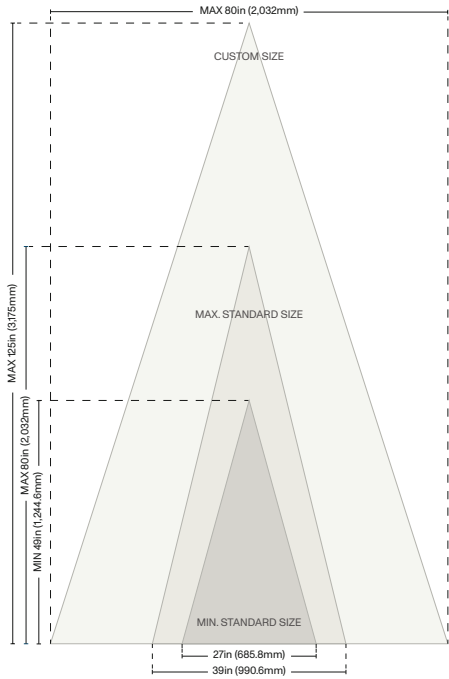


- Curved Standard Size

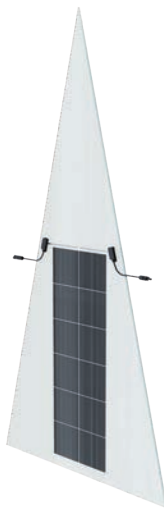
Mitrex circular-shaped curved glass panel, set at a subtle 20-degree angle, offers a sleek and contemporary aesthetic while also providing a unique platform for solar cell arrangements. Different solar cell configurations can be strategically placed across the glass surface, maximizing sunlight absorption throughout the day.

Glass Shapes

Isosceles Triangle

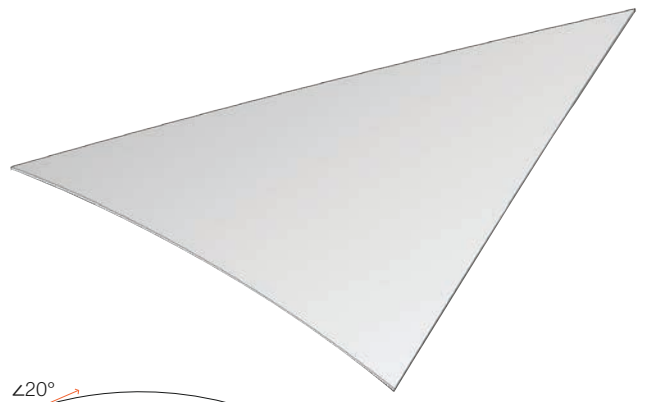


- Standard And Custom Sizes



- Flat Standard Size

Mitrex isosceles flat glass panels offer distinct design possibilities for integrating diverse solar cell arrangements, catering to both aesthetic appeal and power optimization. The isosceles panels, with their asymmetrical shape, enable creative placements of solar cells, allowing for unique and unconventional configurations that can enhance the visual appeal of structures.

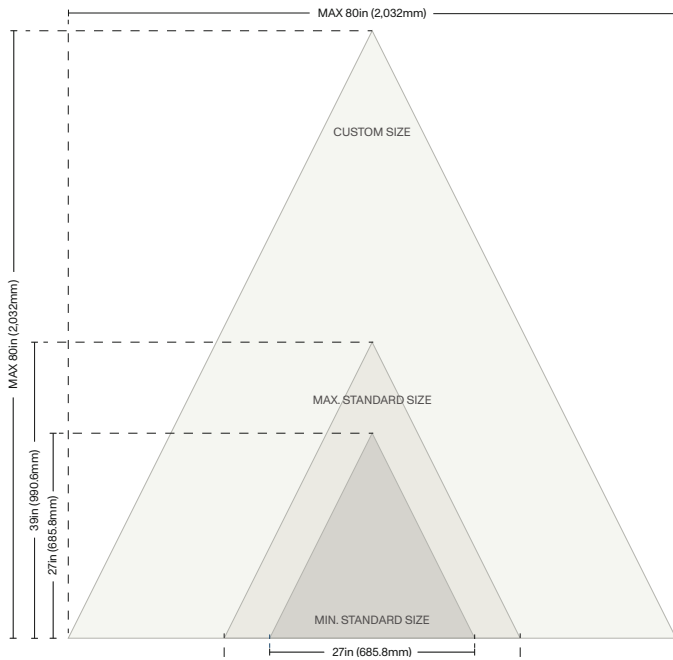


- Curved Standard Size

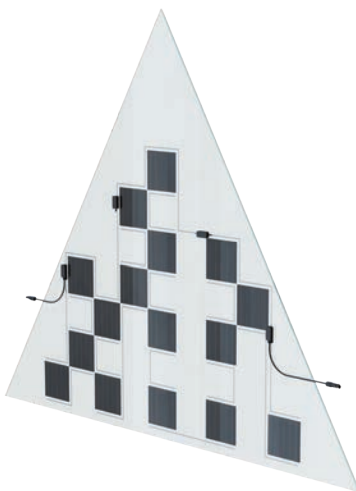
Mitrex's triangular-shaped curved glass panels, angled at 20 degrees, offer a sleek design and a unique platform for placing solar cells strategically, maximizing sunlight absorption.

Glass Shapes

Equilateral Triangle

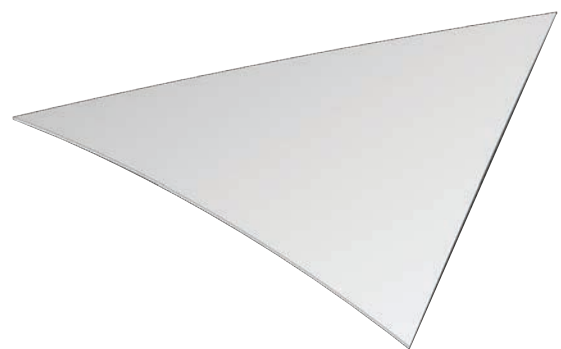


- Standard And Custom Sizes



- Flat Standard Size

Mitrex equilateral triangle flat glass panels offer distinct design possibilities for integrating diverse solar cell arrangements, catering to both aesthetic appeal and power optimization. Equilateral panels, on the other hand, provide a symmetrical and uniform canvas for arranging solar cells in standard or tailored patterns, maximizing power generation while maintaining a clean and consistent design.

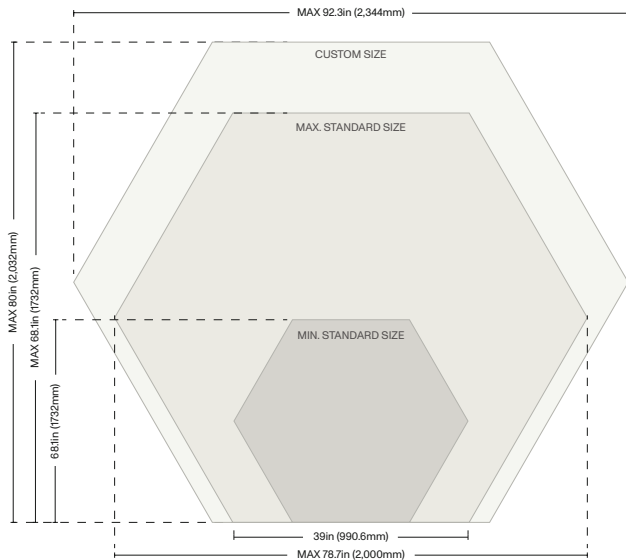


- Curved Standard Size

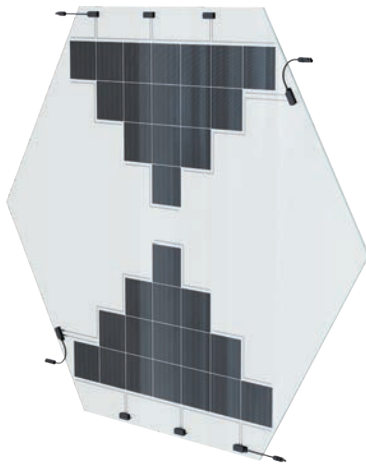
Mitrex's triangular-shaped curved glass panels, angled at 20 degrees, offer a sleek design and a unique platform for placing solar cells strategically, maximizing sunlight absorption.

Glass Shapes

Hexagonal



- Standard And Custom Sizes



- Flat Standard Size

Mitrex hexagonal glass shapes represent a dynamic canvas for integrating diverse solar cell arrangements, offering an innovative blend of design flexibility and enhanced power generation. The unique geometry of hexagonal panels allows for creative configurations of solar cells, adapting seamlessly to unconventional patterns that augment both the aesthetics and functionality of installations.



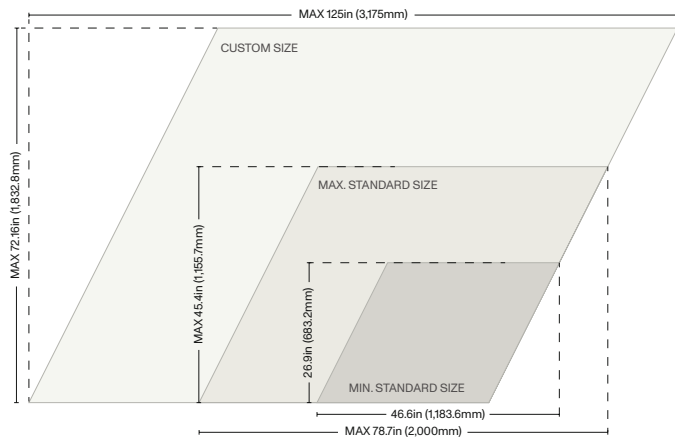
∠20°

- Curved Standard Size

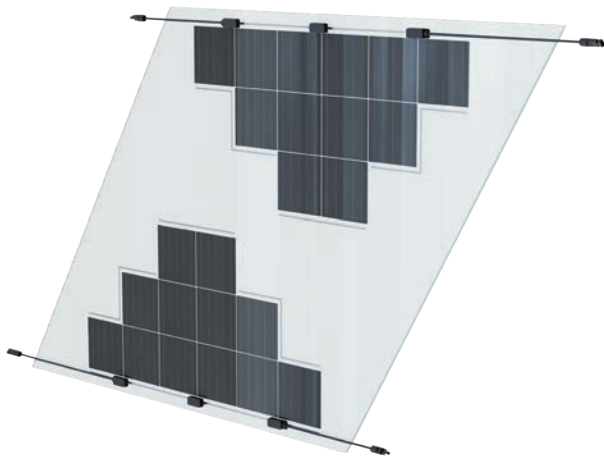
Mitrex's hexagonal-shaped curved glass panels, angled at 20 degrees, offer a sleek design and a unique platform for placing solar cells strategically, maximizing sunlight absorption.

Glass Shapes

Parallelogram

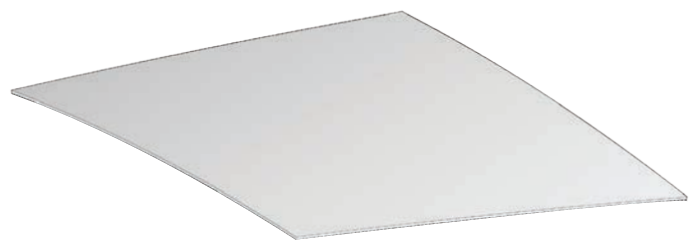


- Standard And Custom Sizes



- Flat Standard Size

Mitrex parallelogram-shaped glass panels introduce a new dimension of design versatility, offering a canvas for diverse solar cell arrangements that amplify both the aesthetic allure and energy efficiency of structures. The unique angles and lines of parallelogram panels provide an unconventional yet adaptable space for creative configurations of solar cells. This shape allows for tailored arrangements, maximizing exposure to sunlight and optimizing energy generation.

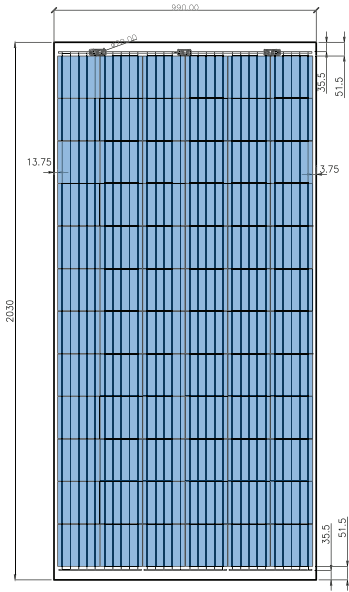


- Curved Standard Size

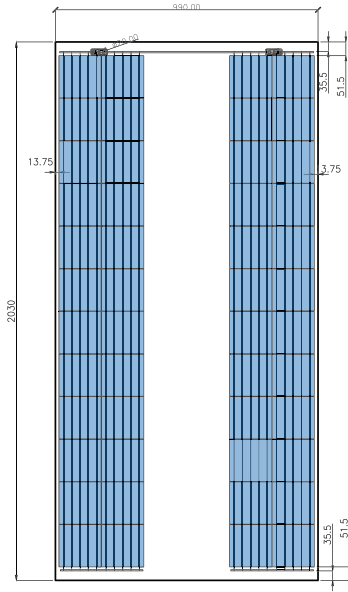
Mitrex's parallelogram-shaped curved glass panels, angled at 20 degrees, offer a sleek design and a unique platform for placing solar cells strategically, maximizing sunlight absorption.

Cells Arrangement

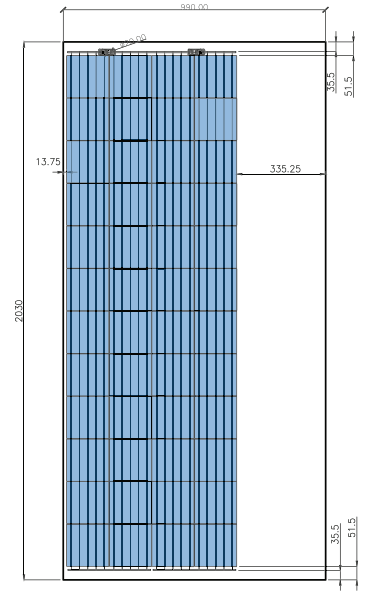
Rectangular Shape



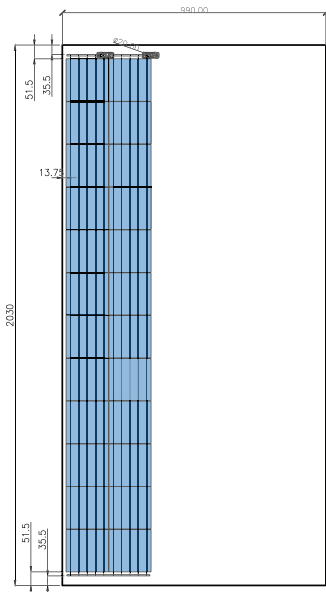
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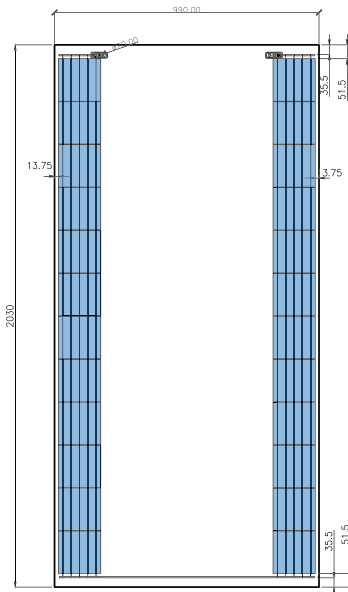
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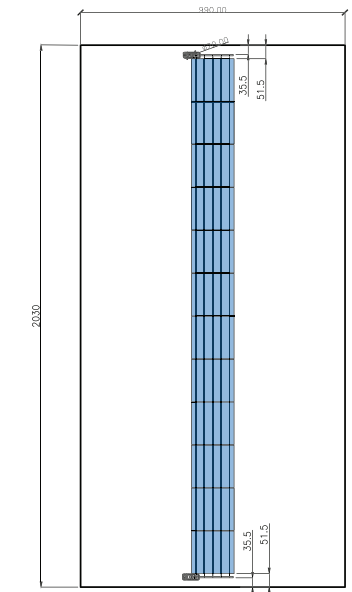
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A4



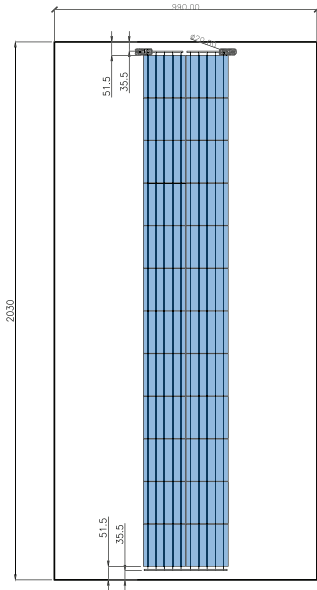
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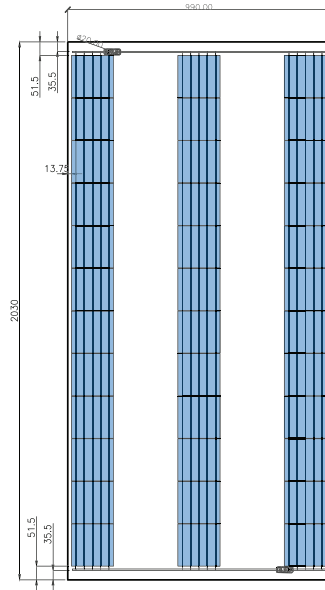
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Cells Arrangement

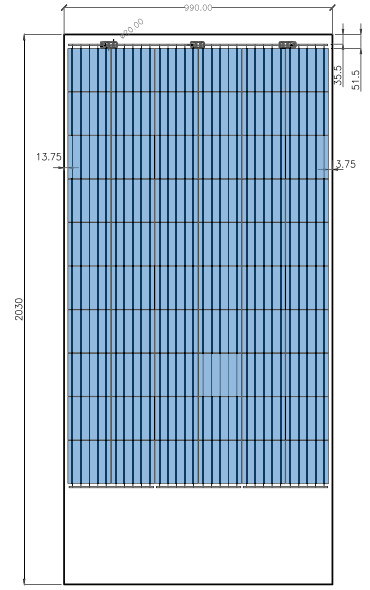
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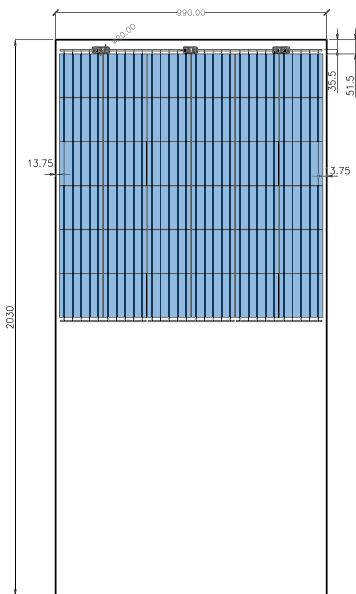
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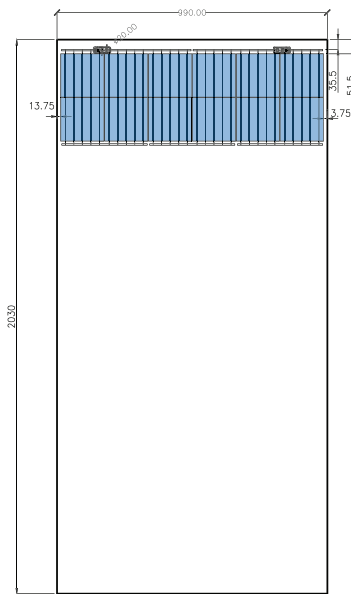
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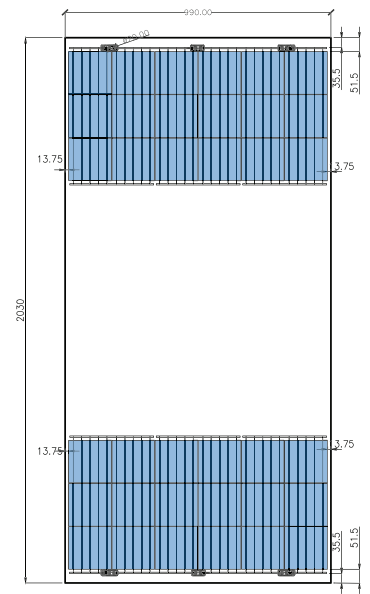
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A22



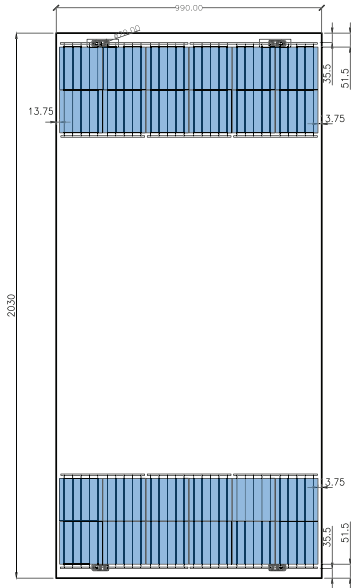
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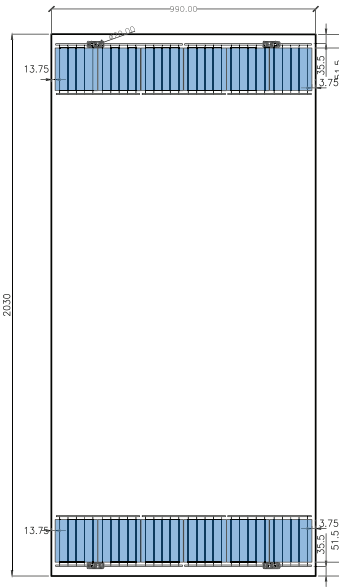
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Cells Arrangement

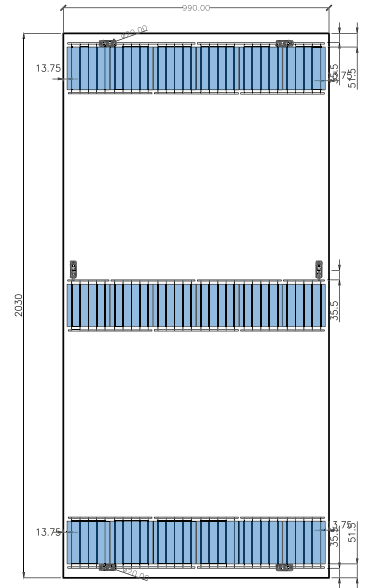
Rectangular Shape



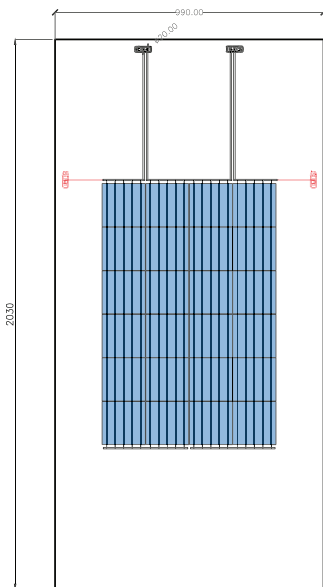
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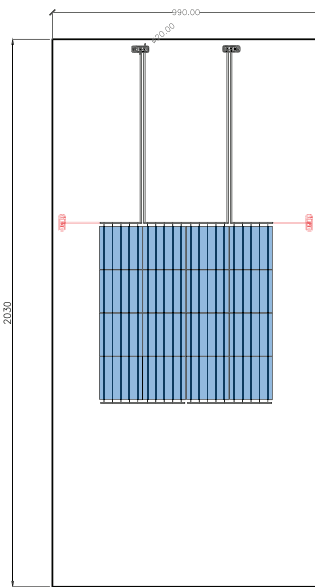
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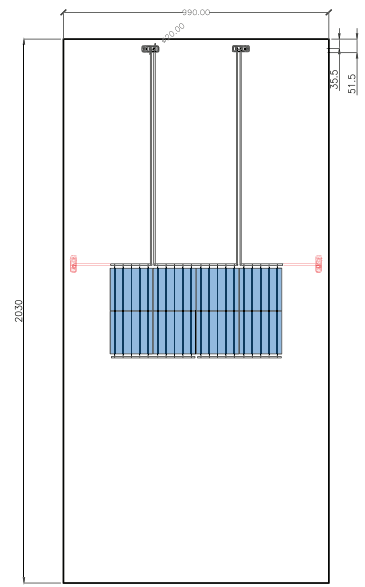
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A31



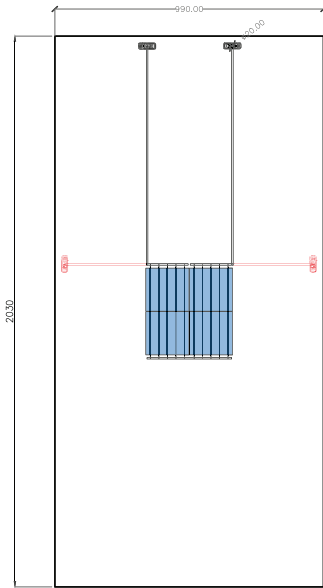
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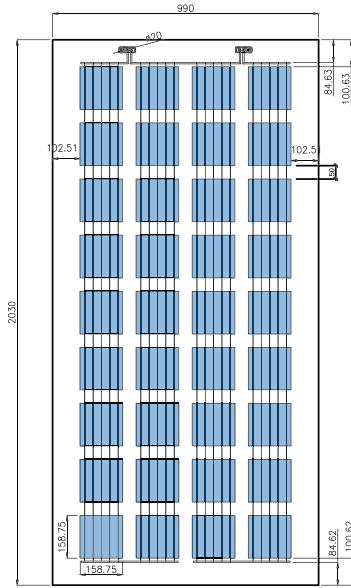
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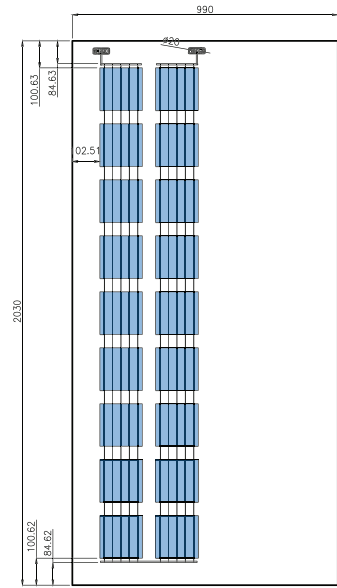
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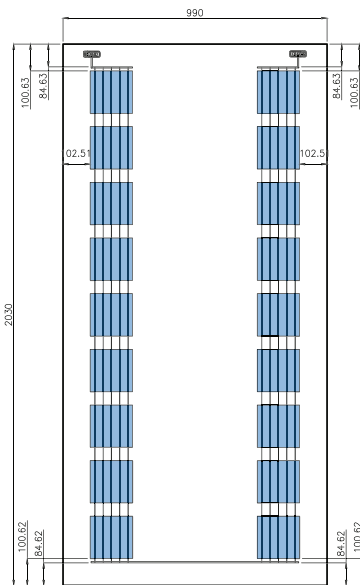
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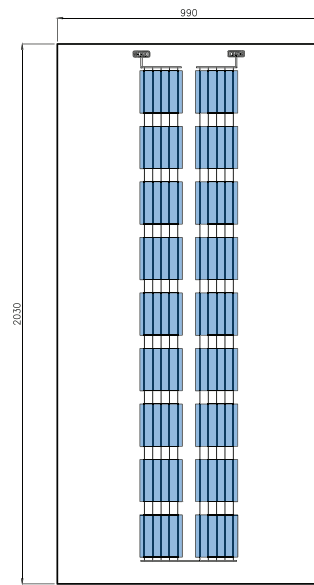
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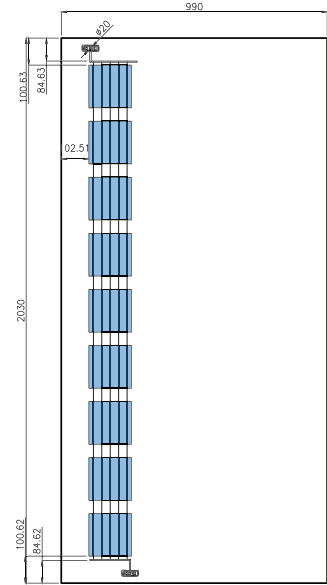
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A113



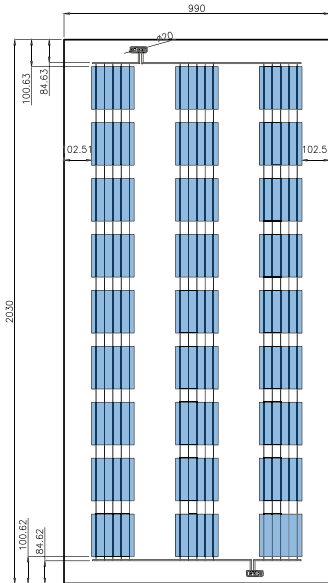
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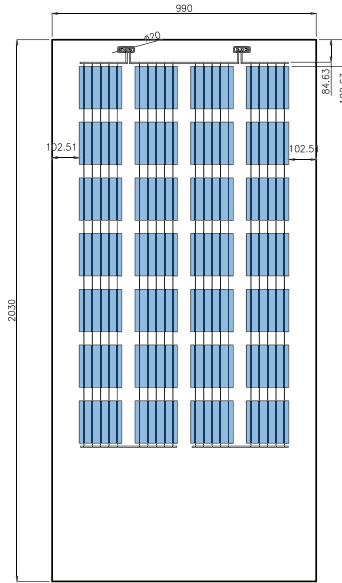
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Cells Arrangement

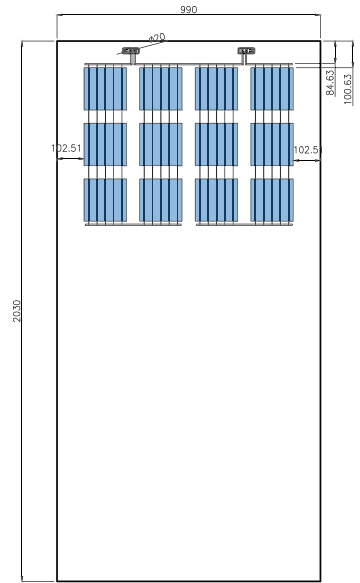
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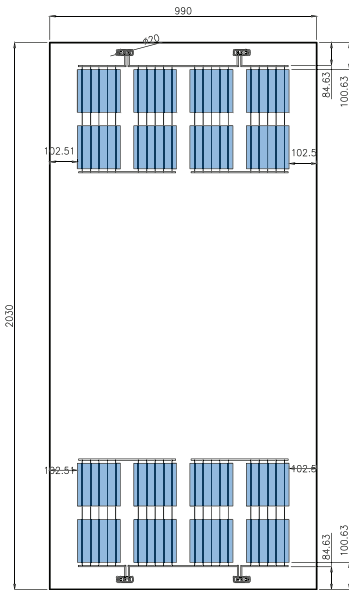
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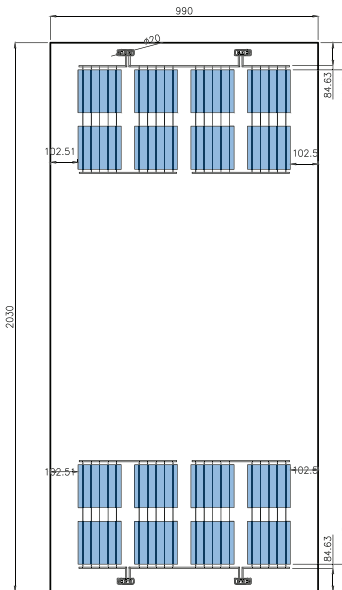
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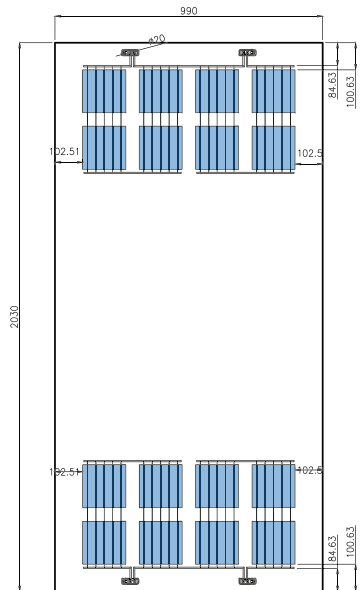
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A123



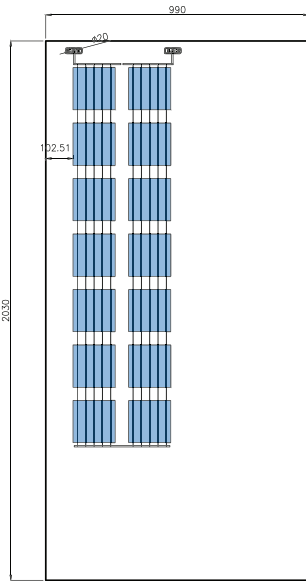
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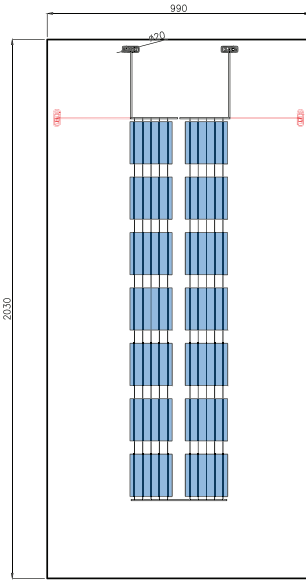
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Cells Arrangement

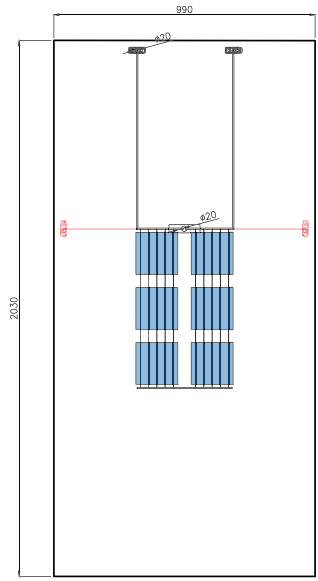
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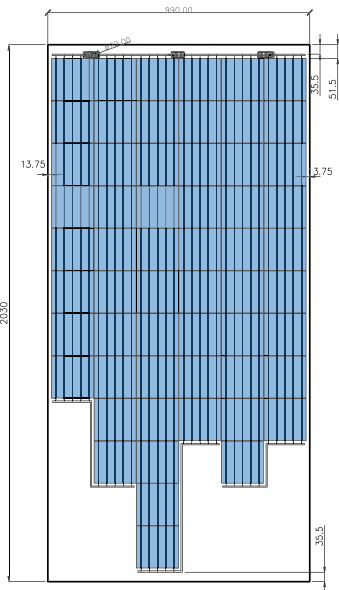
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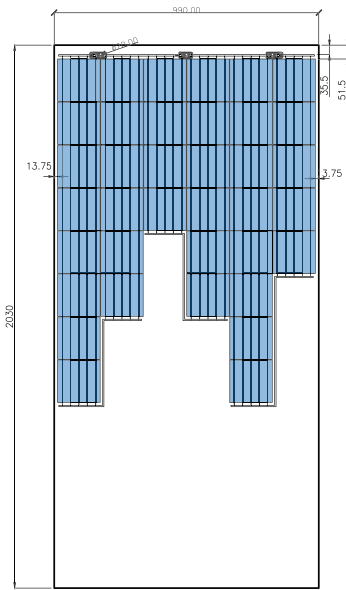
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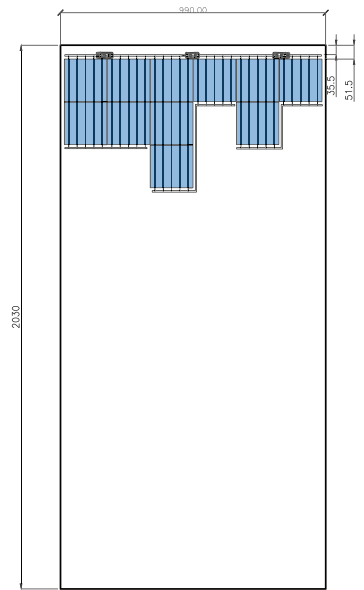
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A41



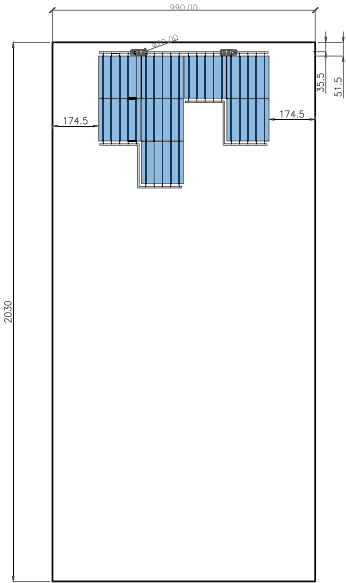
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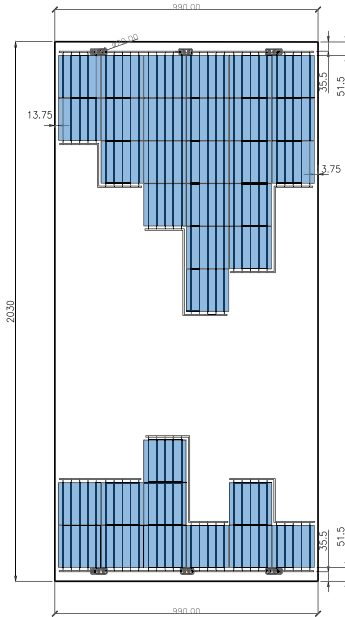
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Cells Arrangement

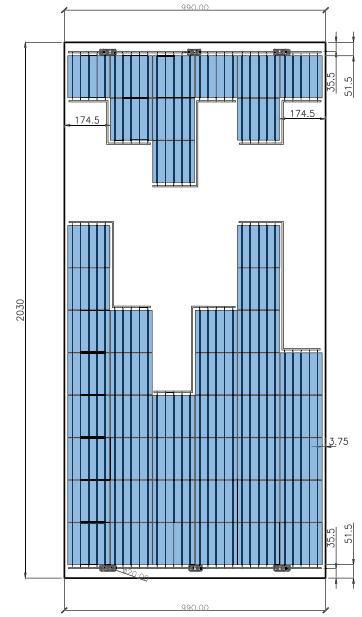
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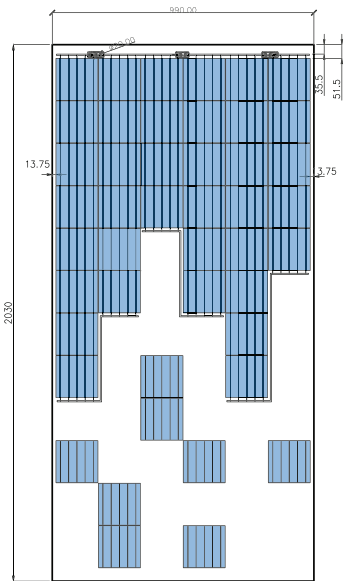
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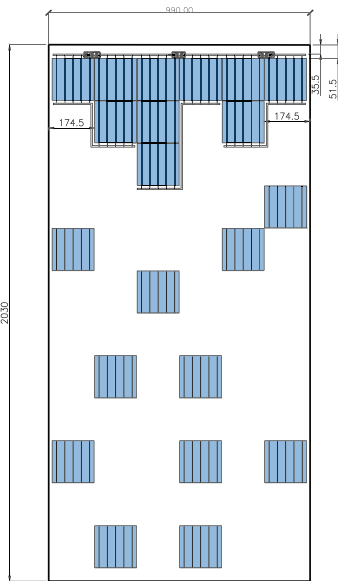
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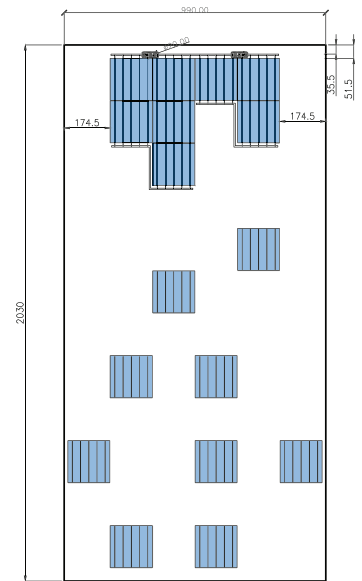
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A51



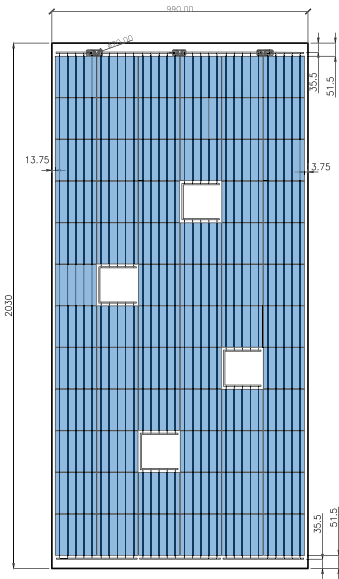
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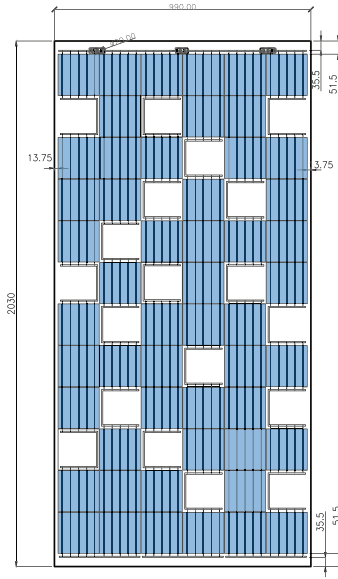
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Cells Arrangement

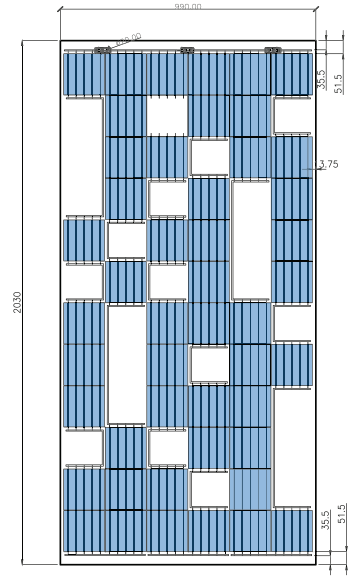
Rectangular Shape



A54



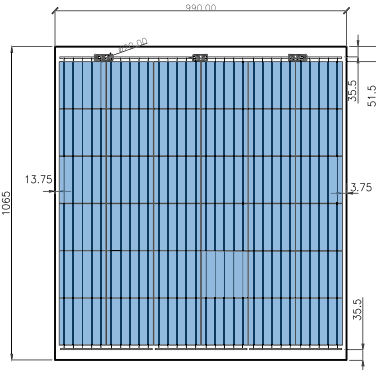
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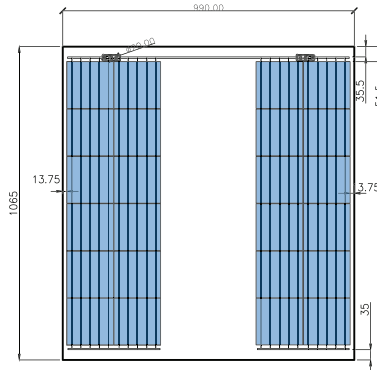
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Cells Arrangement

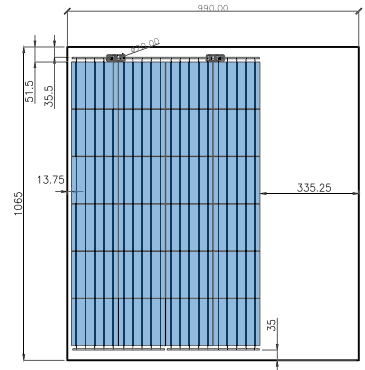
Square Shape



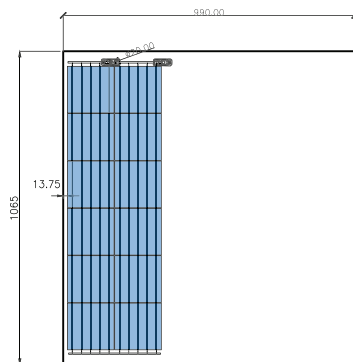
B1



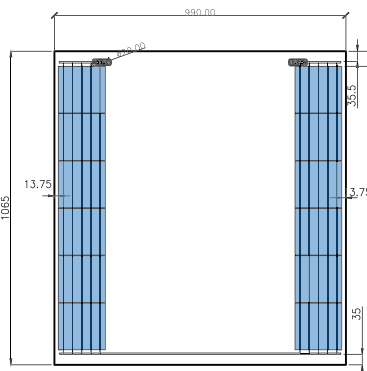
B2



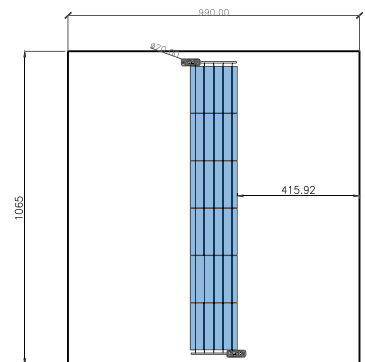
B3



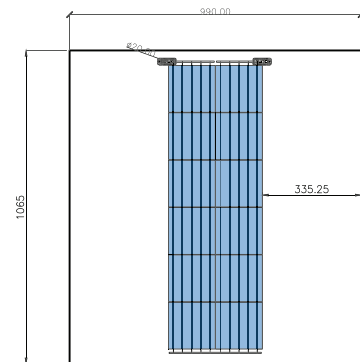
B4



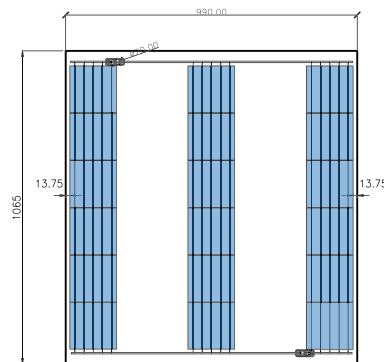
B5



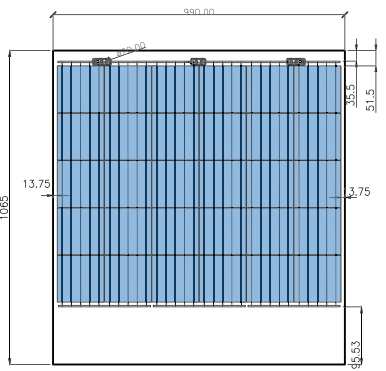
B6



B7



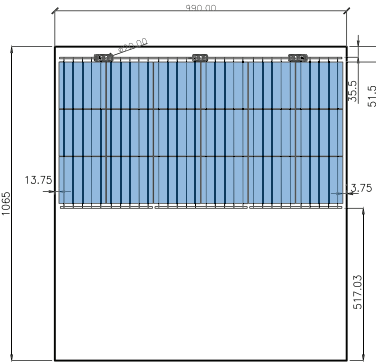
B8



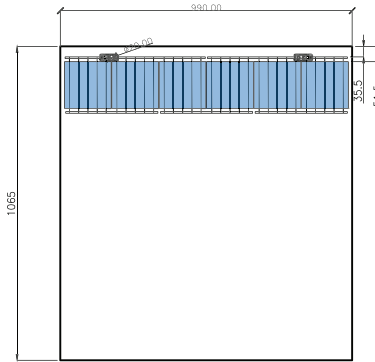
B21

Cells Arrangement

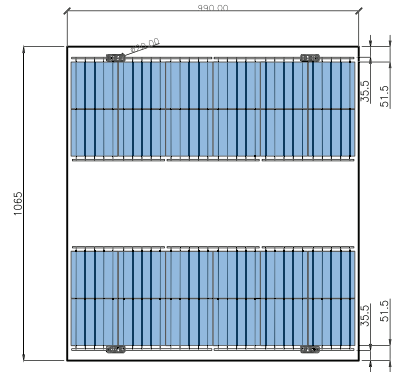
Square Shape



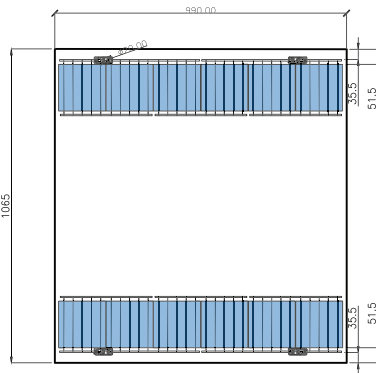
B22



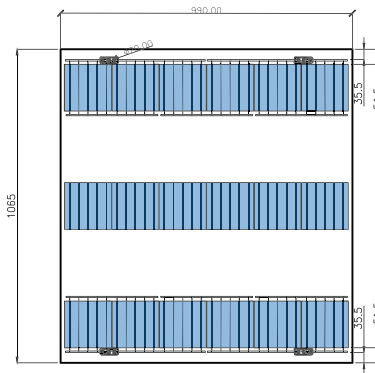
B23



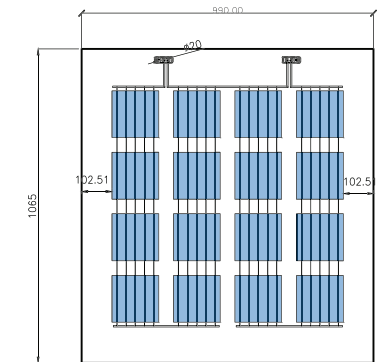
B24



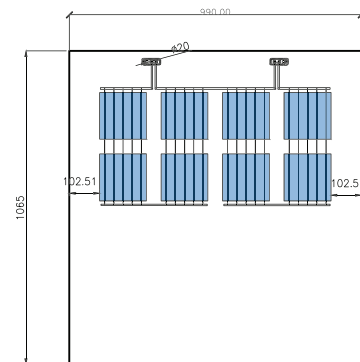
B25



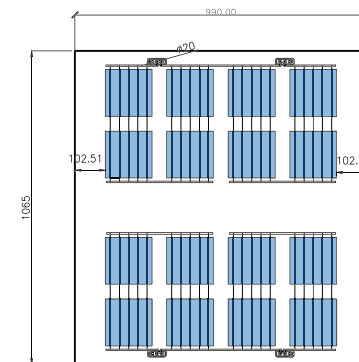
B26



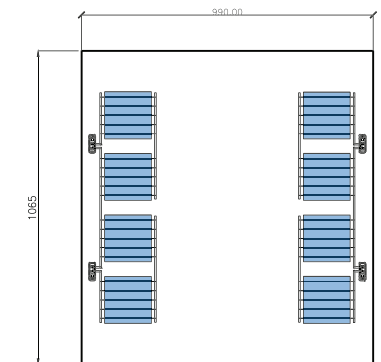
B31



B32



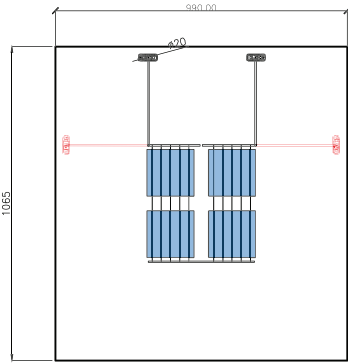
B33



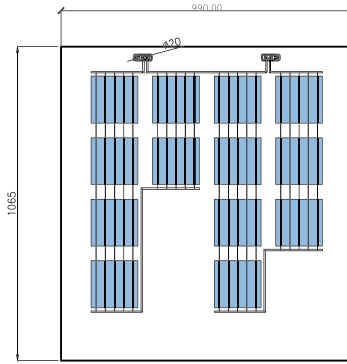
B34

Cells Arrangement

Square Shape



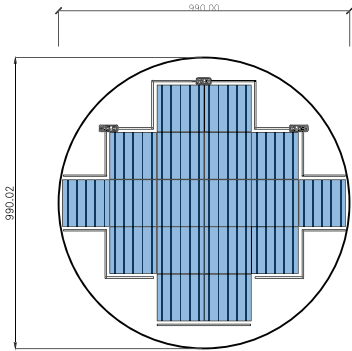
B35



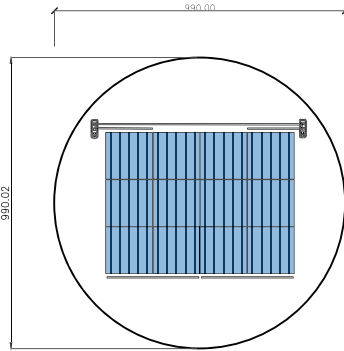
B36

Cells Arrangement

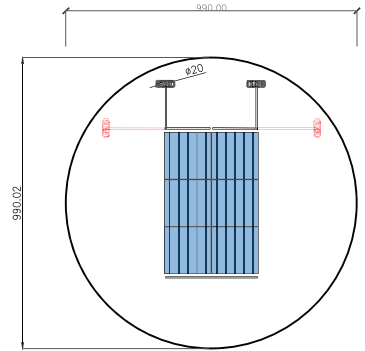
Circular Shape



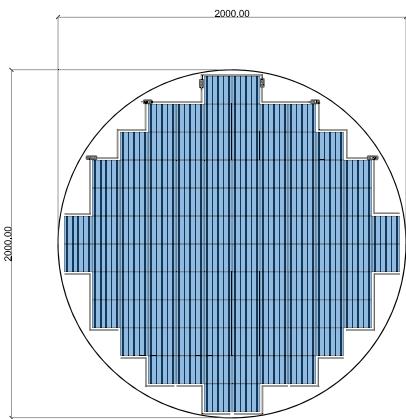
C11



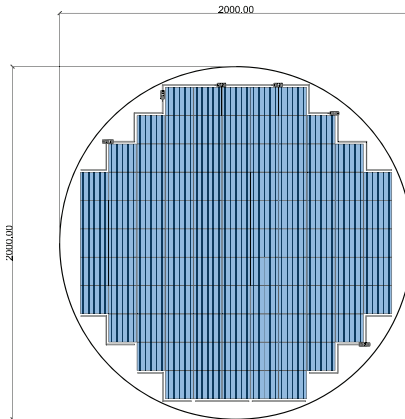
C12



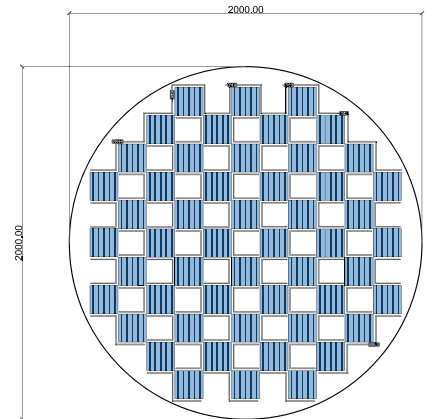
C13



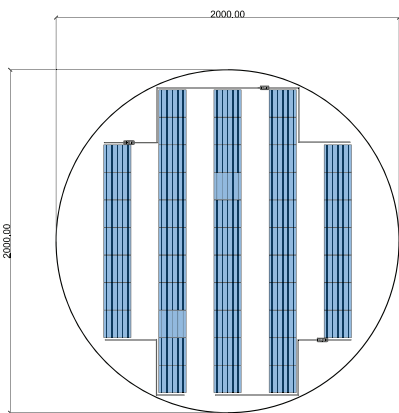
C21



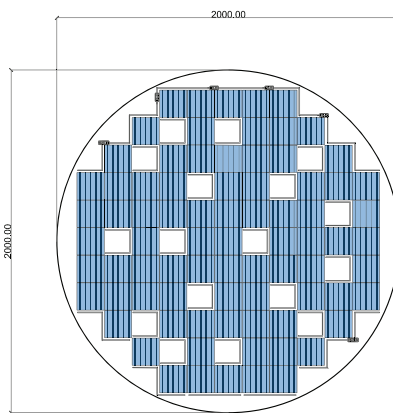
C22



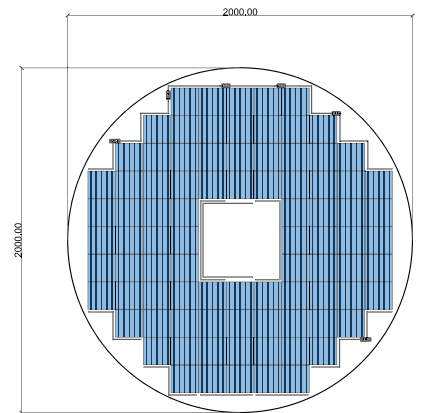
C23



C24



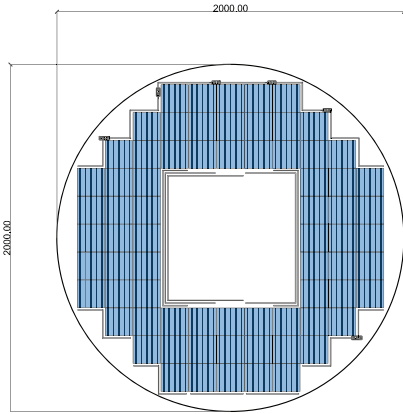
C25



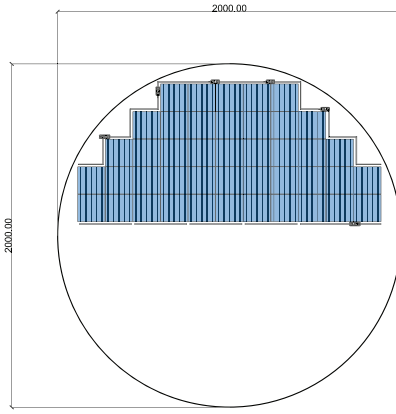
C31

Cells Arrangement

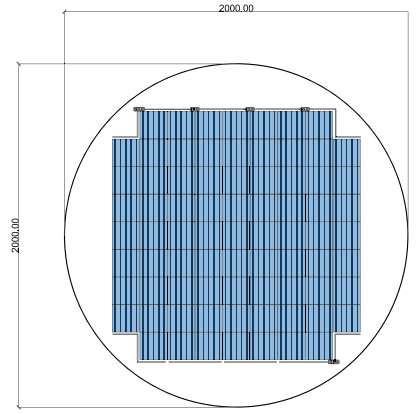
Circular Shape



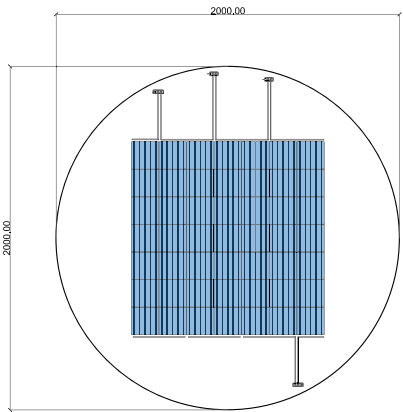
C32



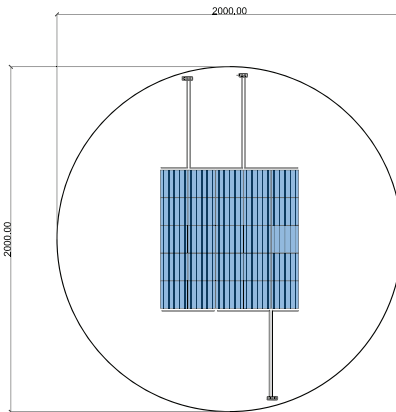
C33



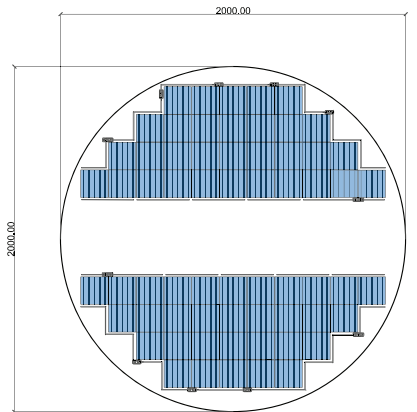
C34



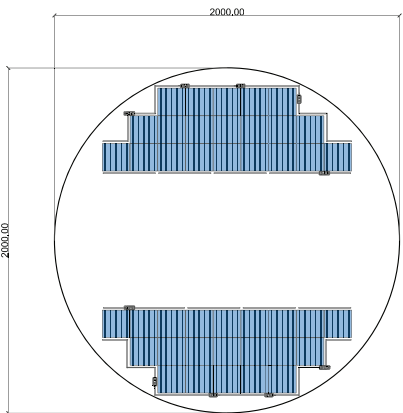
C35



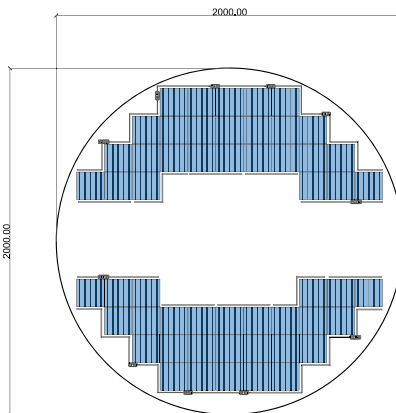
C36



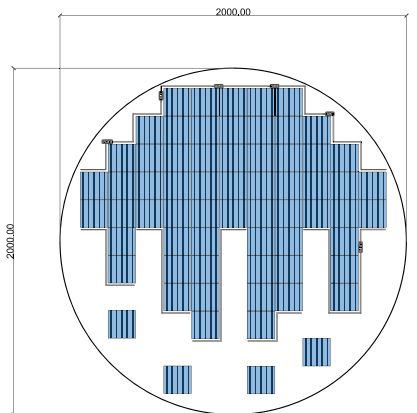
C41



C42



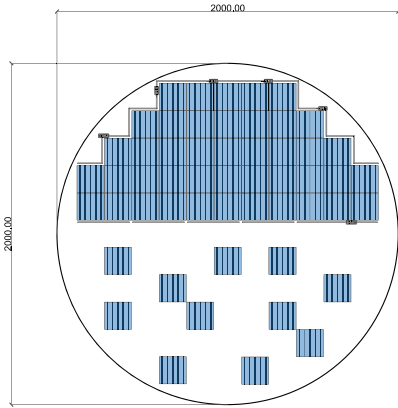
C43



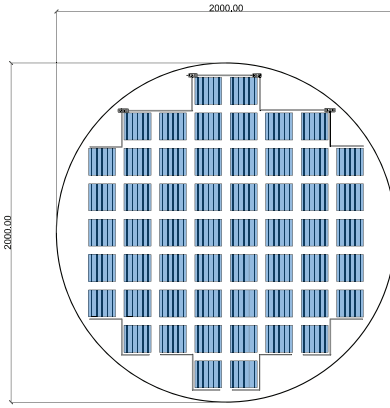
C51

Cells Arrangement

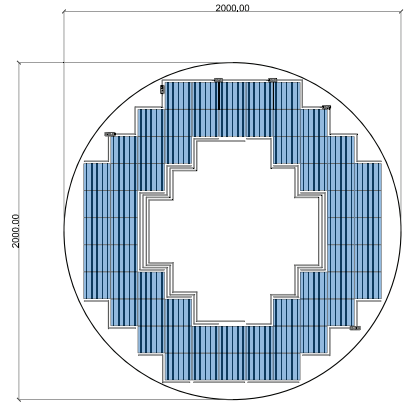
Circular Shape



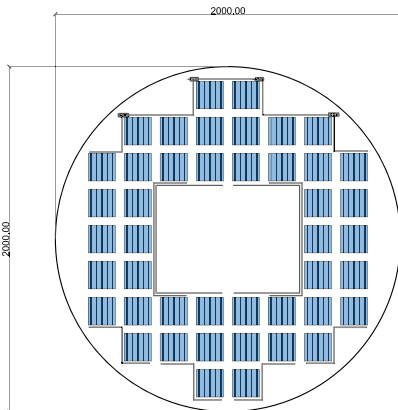
C52



C53



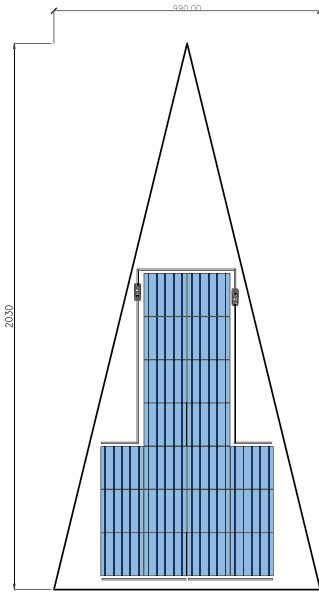
C54



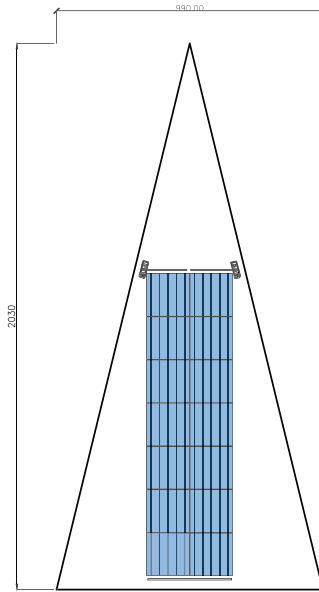
C55

Cells Arrangement

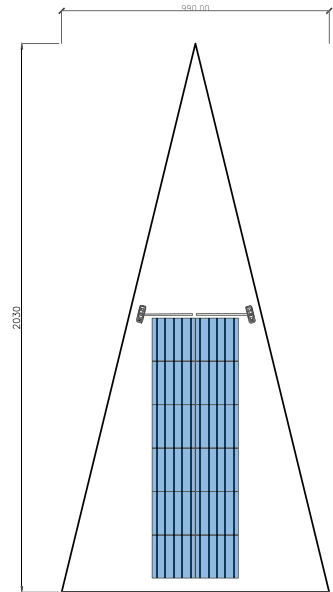
Isosceles Triangle Shape



C14



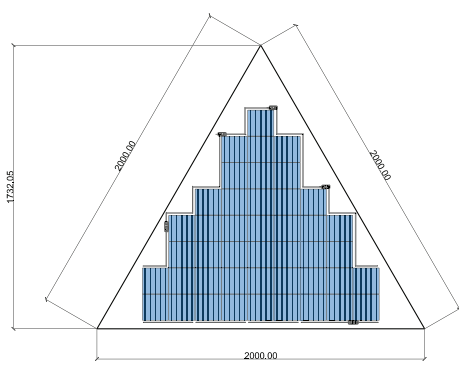
C15



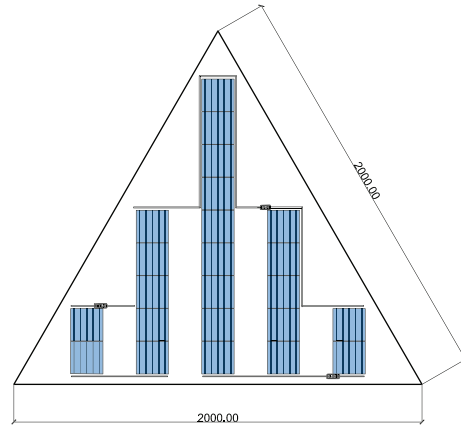
C16

Cells Arrangement

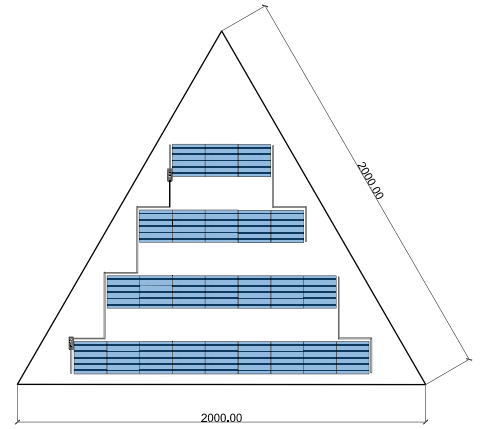
Equilateral Triangle Shape



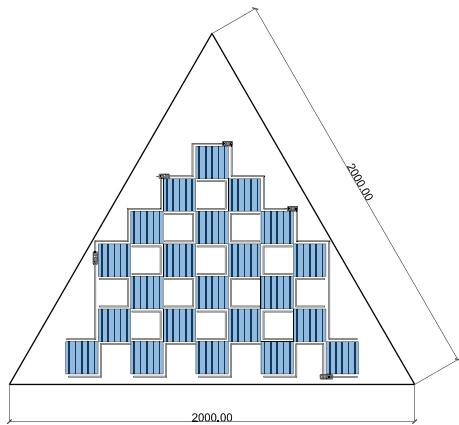
C61



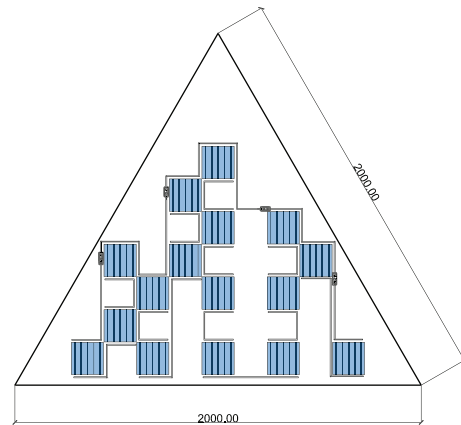
C62



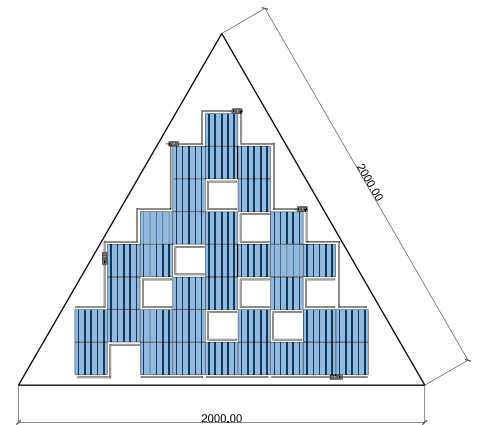
C63



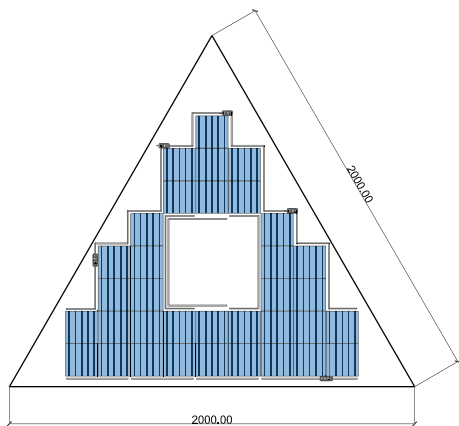
C64



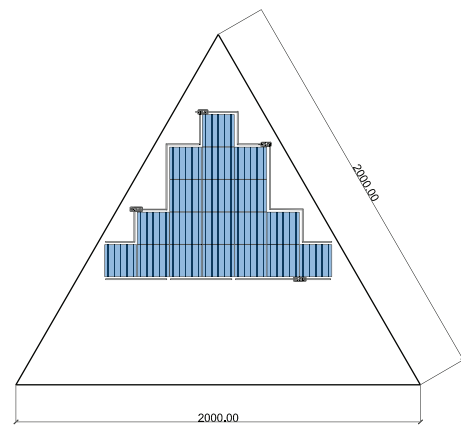
C65



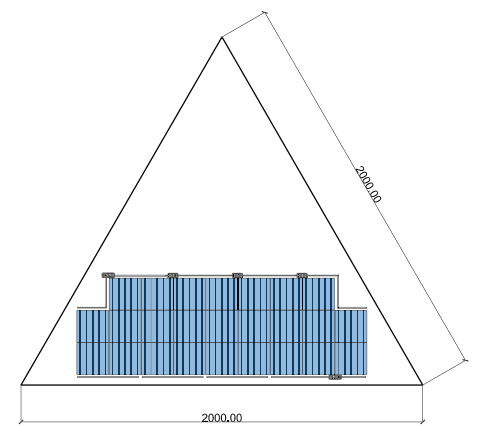
C66



C71



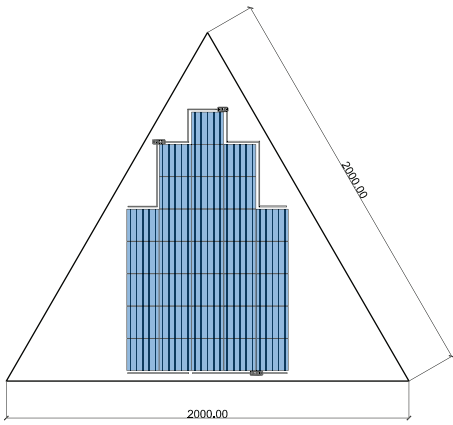
C72



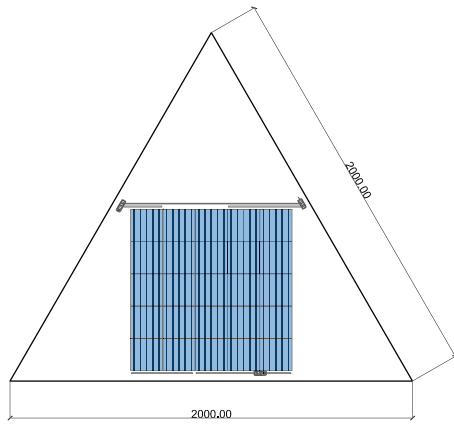
C73

Cells Arrangement

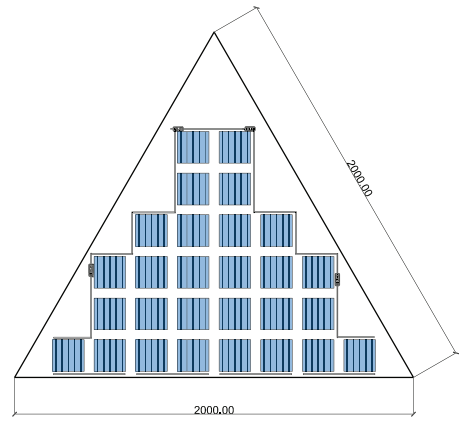
Equilateral Triangle Shape



C74



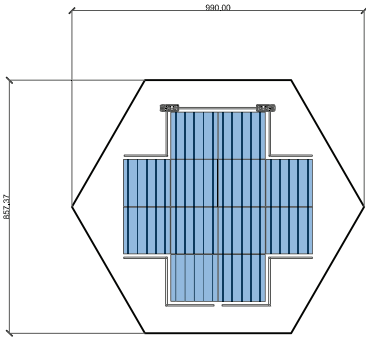
C75



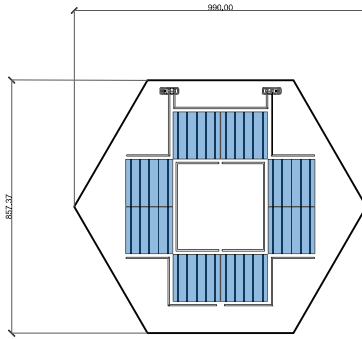
C76

Cells Arrangement

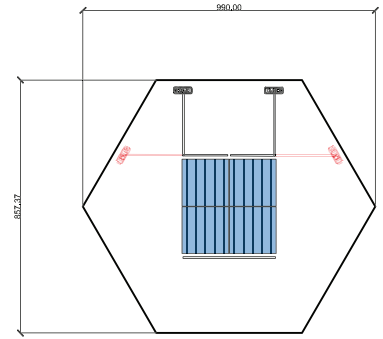
Hexagonal Shape



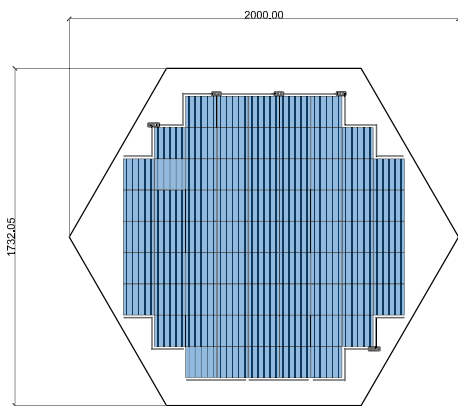
C17



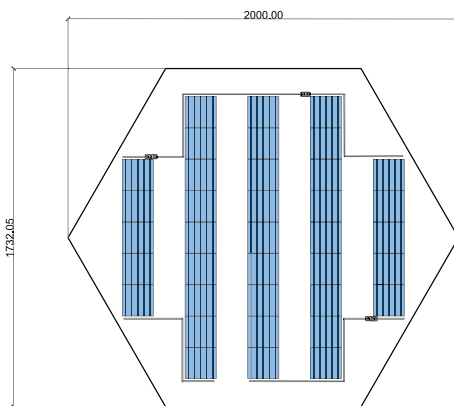
C18



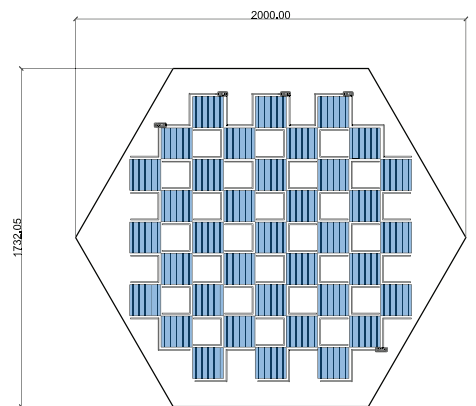
C19



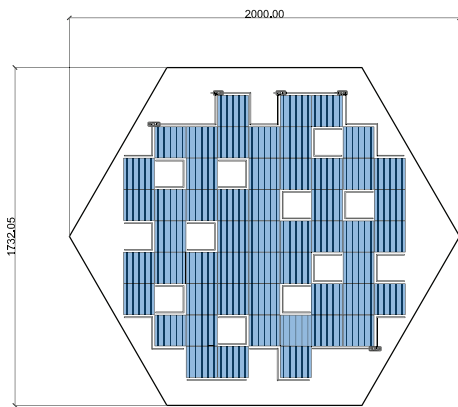
C81



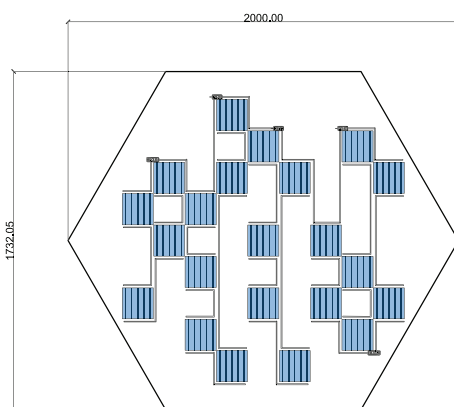
C82



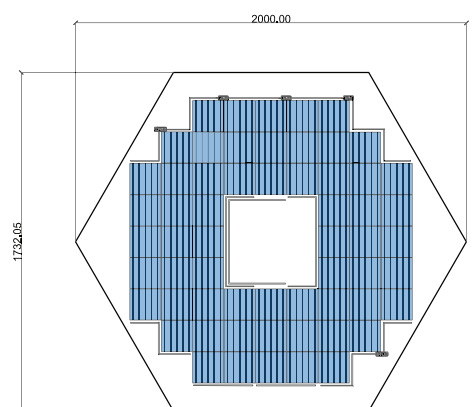
C83



C84



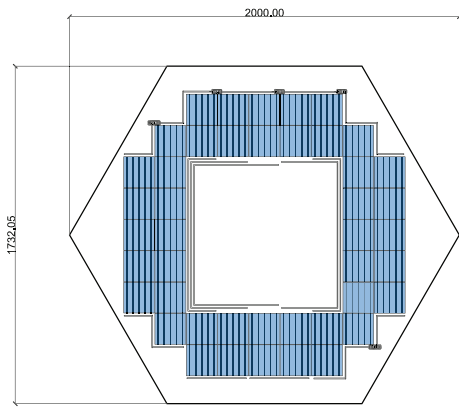
C85



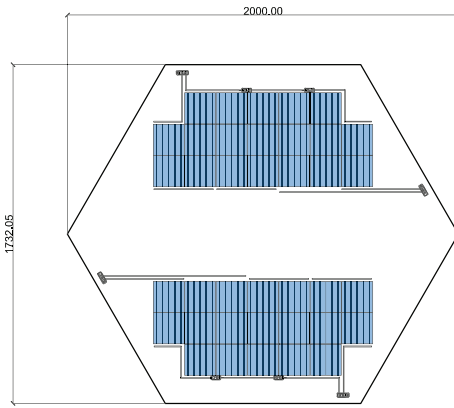
C91

Cells Arrangement

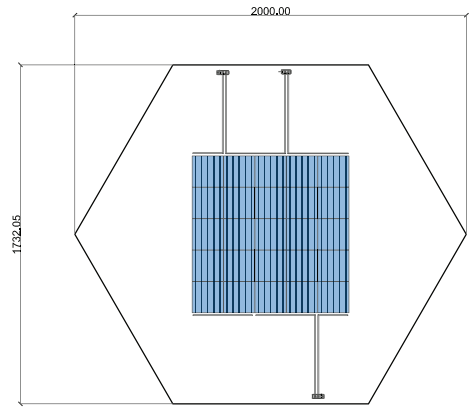
Hexagonal Shape



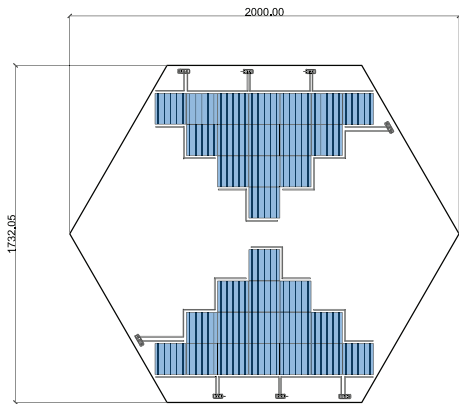
C92



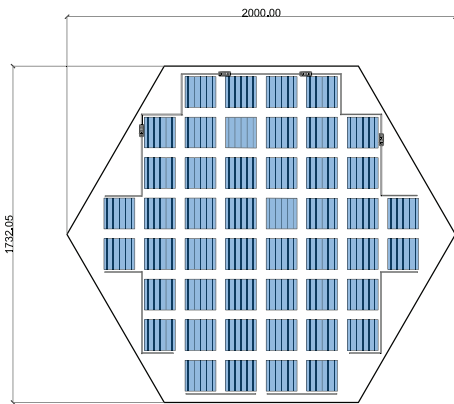
C93



C94



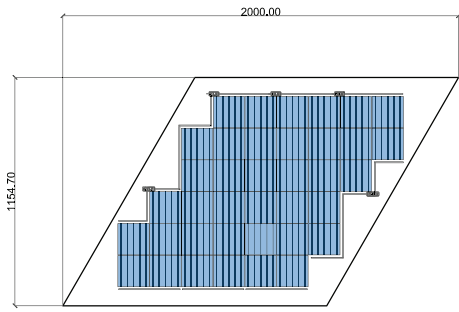
C95



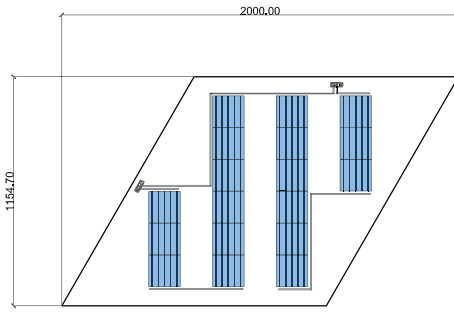
C96

Cells Arrangement

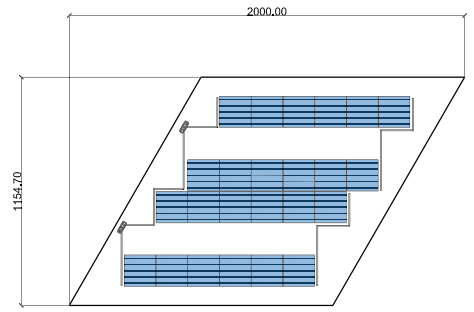
Parallelogram Shape



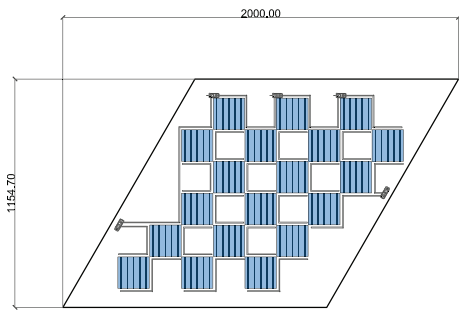
C101



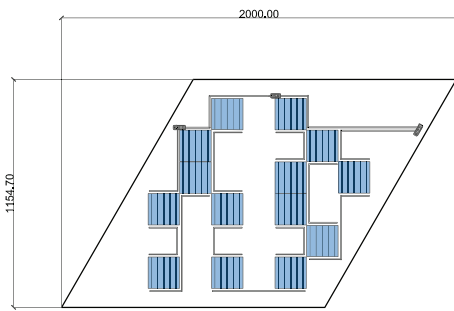
C102



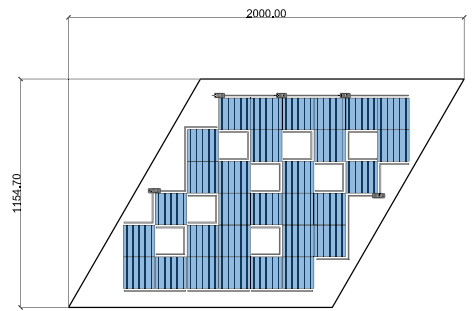
C103



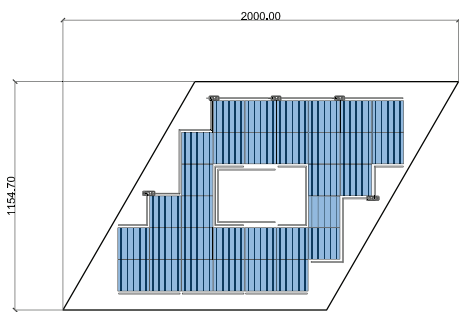
C104



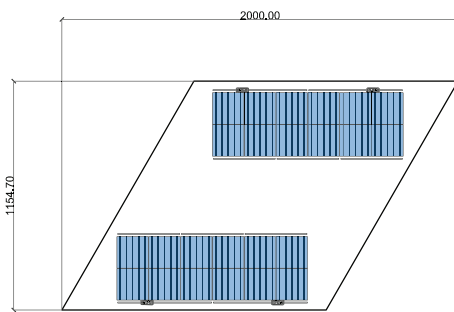
C105



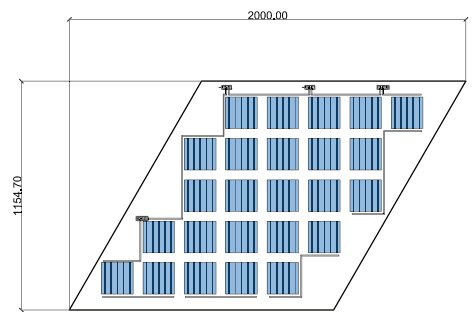
C106



C111



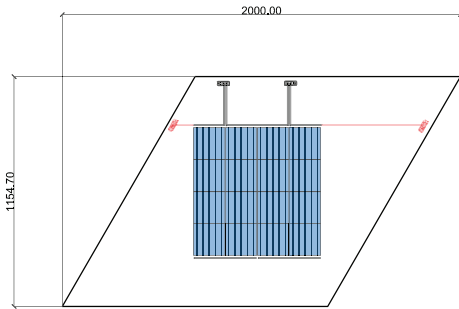
C112



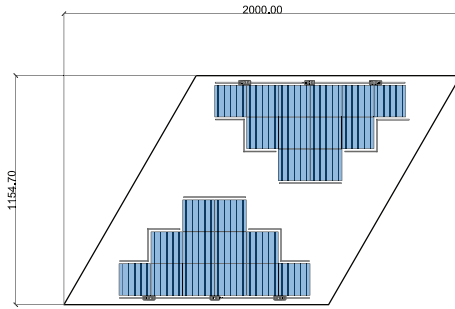
C113

Cells Arrangement

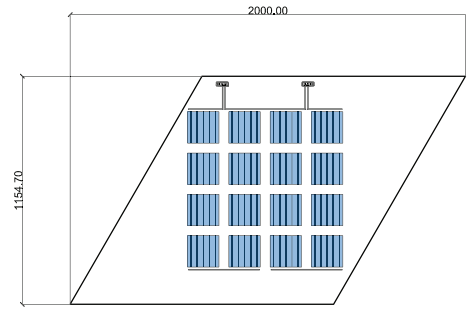
Parallelogram Shape



C114



C115



C116

Solar Glass and Junction Box Position

Laminated Solar Glass

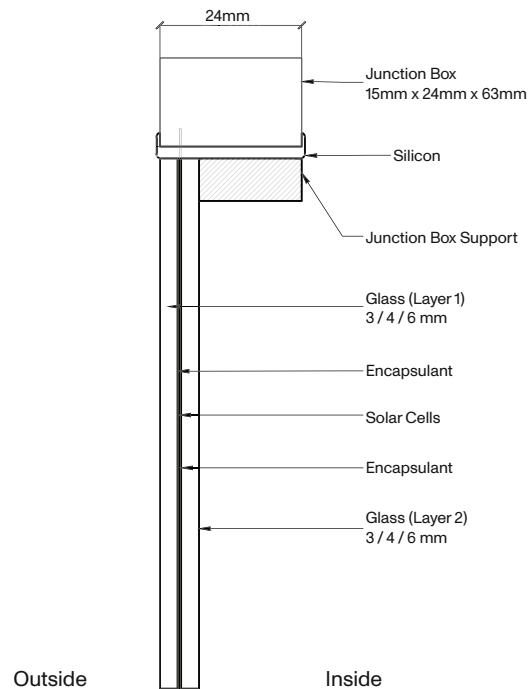
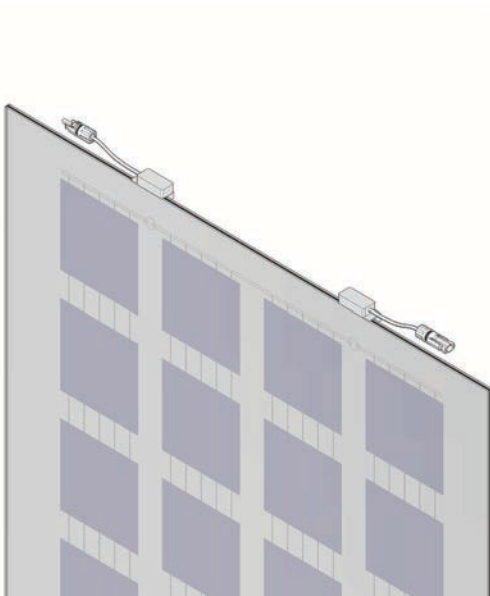
In the Mitrex solar glass, the position of the junction box can be at the front, top or back of the glass depending on the project needs.

Placing the junction box on the top surface ensures easy accessibility for maintenance and inspection, simplifying wiring and connections while preserving the clean appearance of the glass front.

On the other hand, a front-mounted junction box allows for convenient access while maintaining a sleek and integrated look. However, it might be more visible, impacting the overall aesthetics.

Additionally, positioning the junction box at the back conceals wiring and connections, providing a streamlined and unobstructed front surface, enhancing the visual appeal of the structure. The choice of placement involves a careful balance between accessibility, aesthetics, and functionality, each position influencing the efficiency and visual impact of the solar setup.

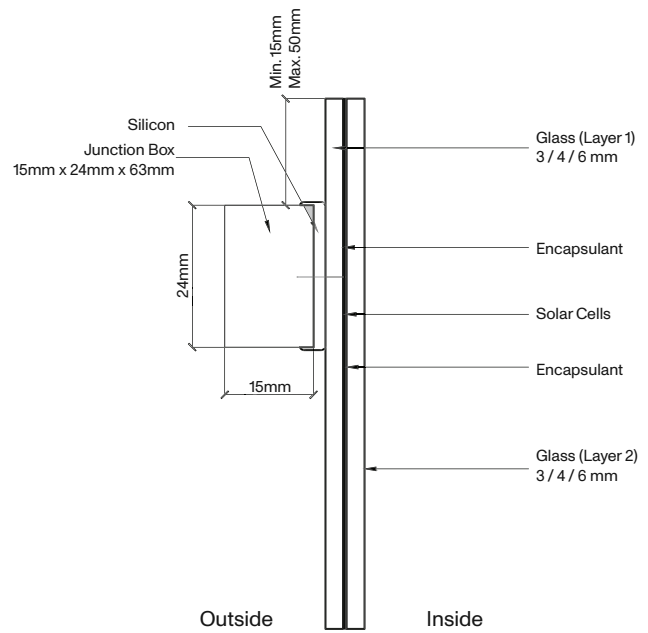
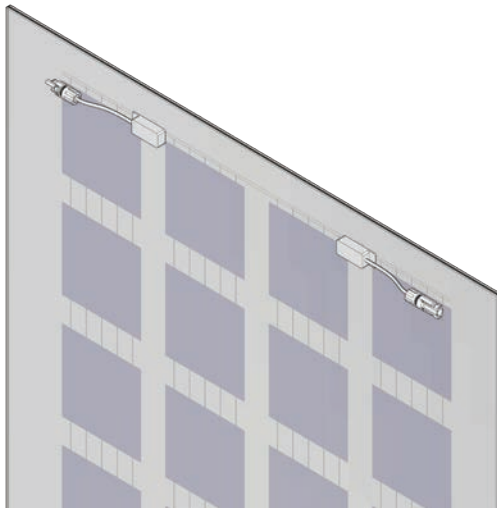
Junction Box On Top



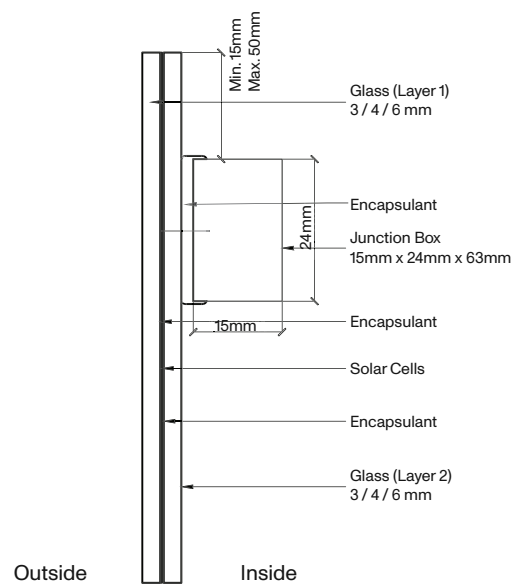
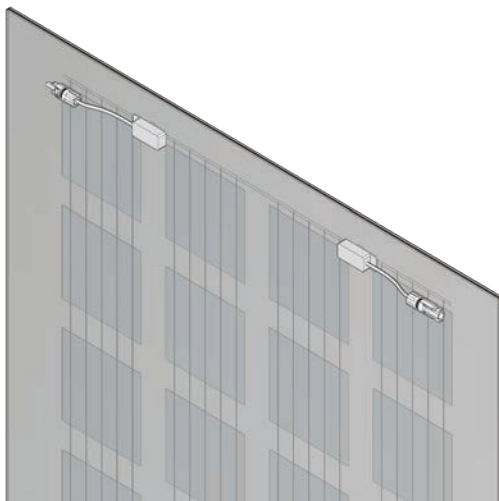
Solar Glass and Junction Box Position

Laminated Solar Glass

Junction Box On The Face



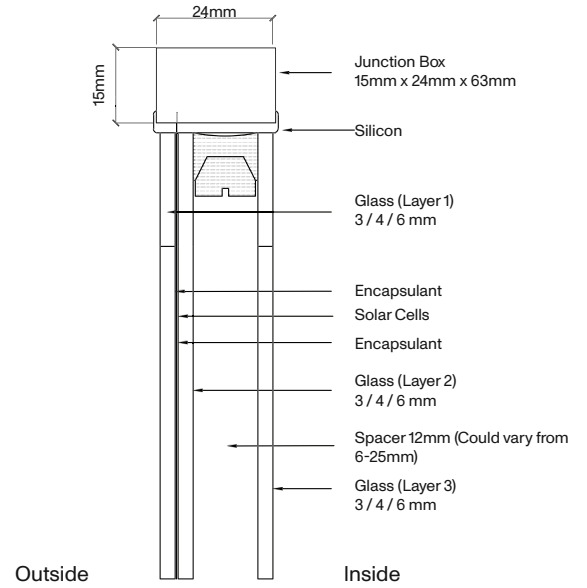
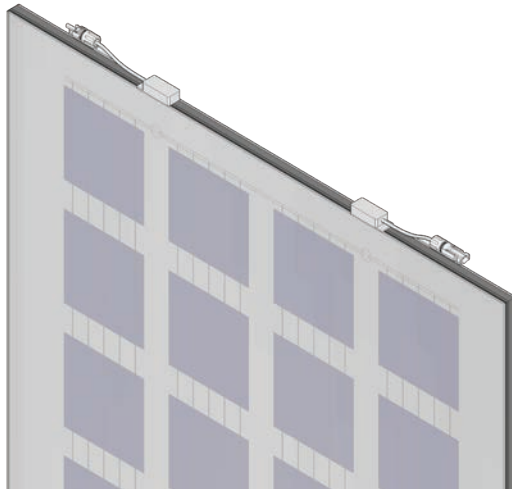
Junction Box At The Back



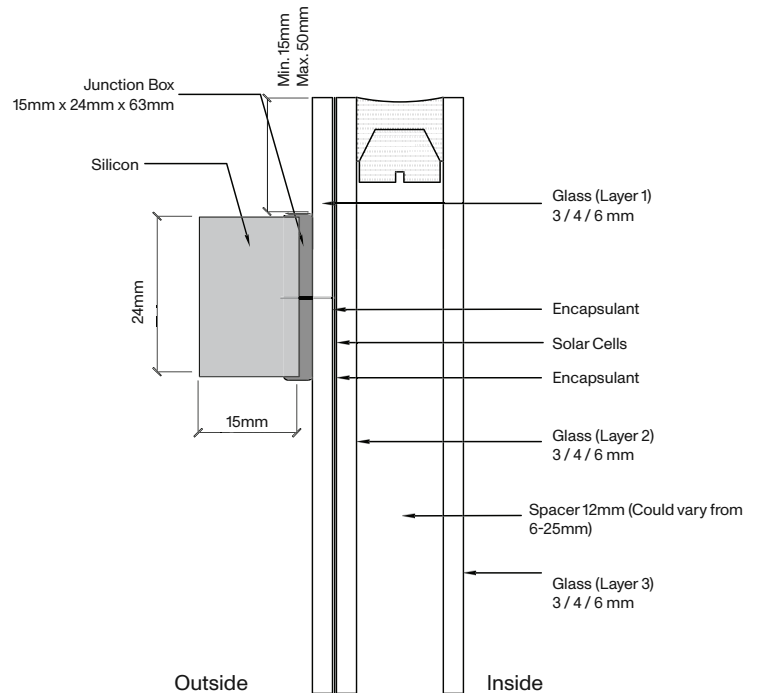
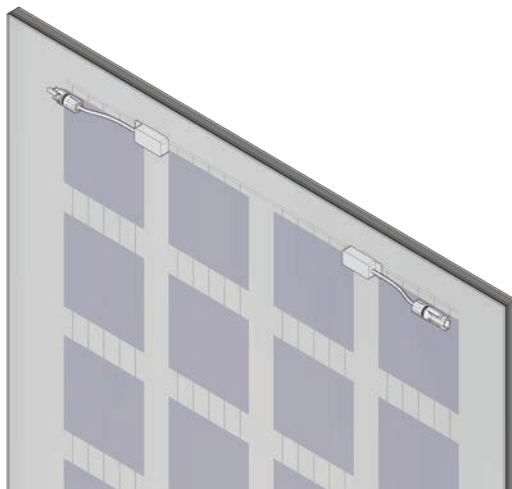
Solar Glass and Junction Box Position

IGU Solar Glass Double Layer

Junction Box On Top



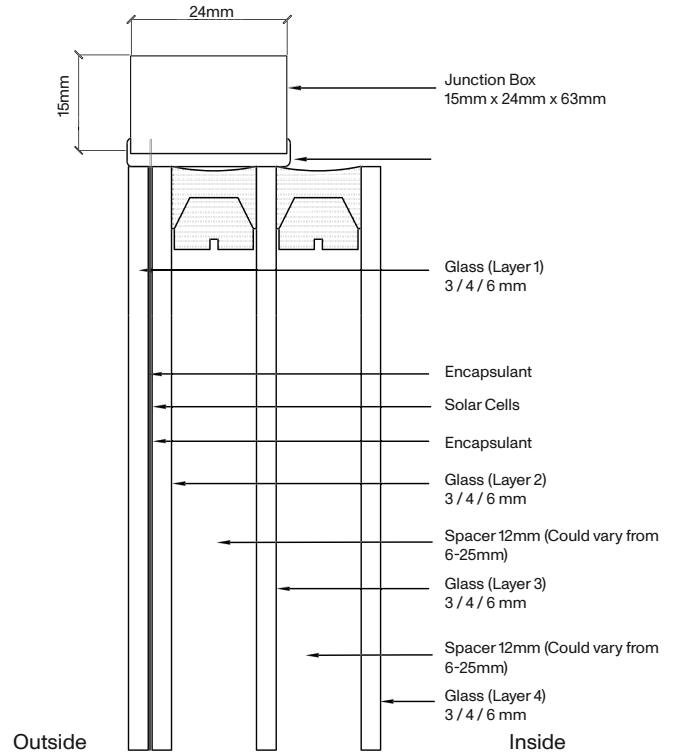
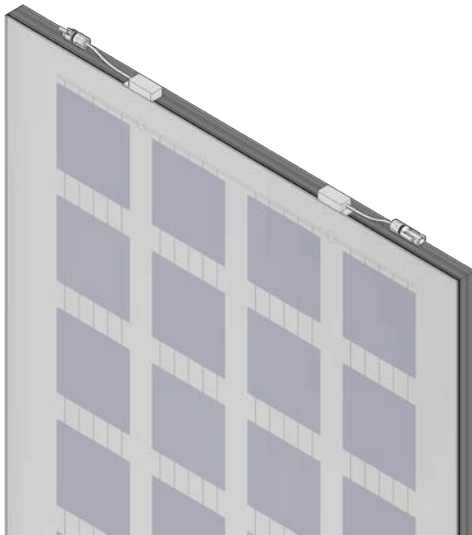
Junction Box On The Face



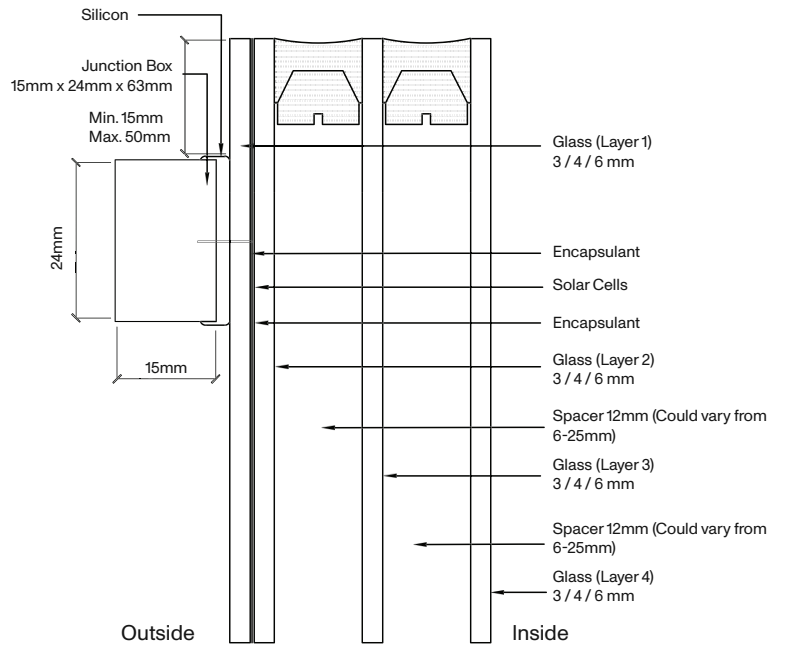
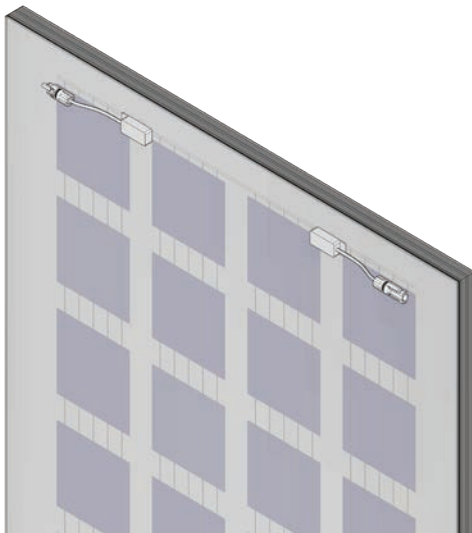
Solar Glass and Junction Box Position

IGU Solar Glass Triple Layer

Junction Box On Top



Junction Box On The Face



Technical Data

Glass Datasheet

Non-Active Models

Panel Type	Layers						UV %	Visible Light Transmittance	Total Solar Transmittance	Visible		Solar Heat Gain Coefficient	U-Value (BTU/hrft2F)		Light to Solar Gain
	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime	
Lowtron-Lowtron	3	3	N/A	N/A	N/A	N/A	0%	91%	83%	8%	8%	86%	1.00	0.90	1.06
Lowtron-Lowtron	4	4	N/A	N/A	N/A	N/A	1%	91%	82%	8%	8%	85%	0.99	0.90	1.07
Lowtron-Lowtron	6	6	N/A	N/A	N/A	N/A	0%	90%	81%	8%	8%	85%	0.97	0.88	1.06
Lowtron-LowtronLowE	3	3	N/A	N/A	N/A	N/A	0%	76%	38%	10%	9%	45%	1.00	0.90	1.69
Lowtron-LowtronLowE	4	4	N/A	N/A	N/A	N/A	0%	76%	38%	10%	9%	45%	0.99	0.90	1.69
Lowtron-LowtronLowE	6	6	N/A	N/A	N/A	N/A	0%	75%	38%	10%	9%	46%	0.97	0.88	1.65
Lowtron-Lowtron-Spacer-Clear	3	3	12	3	N/A	N/A	0%	82%	70%	15%	15%	76%	0.45	0.47	1.08
Lowtron-Lowtron-Spacer-Clear	4	4	12	4	N/A	N/A	1%	82%	68%	15%	15%	75%	0.44	0.47	1.09
Lowtron-Lowtron-Spacer-Clear	6	6	12	6	N/A	N/A	0%	81%	63%	15%	15%	73%	0.44	0.46	1.11
Lowtron-Lowtron-Spacer-Lowtron	3	3	12	3	N/A	N/A	0%	84%	76%	15%	15%	78%	0.45	0.47	1.08
Lowtron-Lowtron-Spacer-Lowtron	4	4	12	4	N/A	N/A	1%	83%	75%	15%	15%	77%	0.44	0.47	1.08
Lowtron-Lowtron-Spacer-Lowtron	6	6	12	6	N/A	N/A	0%	83%	73%	15%	15%	76%	0.44	0.46	1.09
Lowtron-Lowtron-Spacer-LowE-Clear	3	3	12	3	N/A	N/A	0%	73%	37%	12%	11%	48%	0.24	0.22	1.52
Lowtron-Lowtron-Spacer-LowE-Clear	4	4	12	4	N/A	N/A	0%	73%	36%	12%	11%	48%	0.24	0.22	1.52
Lowtron-Lowtron-Spacer-LowE-Clear	6	6	12	6	N/A	N/A	0%	72%	35%	12%	11%	48%	0.24	0.22	1.50
Lowtron-Lowtron-Spacer-LowELowtron	3	3	12	3	N/A	N/A	0%	75%	38%	12%	11%	48%	0.29	0.27	1.56
Lowtron-Lowtron-Spacer-LowELowtron	4	4	12	4	N/A	N/A	0%	75%	38%	12%	11%	48%	0.28	0.26	1.56
Lowtron-Lowtron-Spacer-LowELowtron	6	6	12	6	N/A	N/A	0%	74%	38%	12%	11%	48%	0.24	0.22	1.54
Lowtron-Lowtron-Spacer-Clear-Spacer-Clear	3	3	12	3	12	3	0%	75%	59%	21%	21%	68%	0.29	0.32	1.10
Lowtron-Lowtron-Spacer-Clear-Spacer-Clear	4	4	12	4	12	4	1%	74%	56%	21%	21%	67%	0.28	0.32	1.10
Lowtron-Lowtron-Spacer-Clear-Spacer-Clear	6	6	12	6	12	6	0%	72%	50%	21%	20%	64%	0.28	0.32	1.13
Lowtron-Lowtron-Spacer-Lowtron-Spacer-Lowtron	3	3	12	3	12	3	0%	77%	69%	21%	21%	72%	0.29	0.32	1.07
Lowtron-Lowtron-Spacer-Lowtron-Spacer-Lowtron	4	4	12	4	12	4	1%	77%	68%	21%	21%	71%	0.28	0.32	1.08
Lowtron-Lowtron-Spacer-Lowtron-Spacer-Lowtron	6	6	12	6	12	6	0%	77%	66%	21%	21%	70%	0.28	0.32	1.10
Lowtron-Lowtron-Spacer-LowE-Clear-Spacer-LowE-Clear	3	3	12	3	12	3	0%	59%	25%	15%	13%	39%	0.12	0.12	1.51
Lowtron-Lowtron-Spacer-LowE-Clear-Spacer-LowE-Clear	4	4	12	4	12	4	0%	58%	25%	14%	12%	39%	0.12	0.12	1.49
Lowtron-Lowtron-Spacer-LowE-Clear-Spacer-LowE-Clear	6	6	12	6	12	6	0%	57%	24%	14%	12%	38%	0.12	0.12	1.50
Lowtron-Lowtron-Spacer-LowELowtron-Spacer-LowELowtron	3	3	12	3	12	3	0%	61%	27%	15%	13%	40%	0.12	0.12	1.53
Lowtron-Lowtron-Spacer-LowELowtron-Spacer-LowELowtron	4	4	12	4	12	4	0%	61%	27%	15%	13%	40%	0.12	0.12	1.53
Lowtron-Lowtron-Spacer-LowELowtron-Spacer-LowELowtron	6	6	12	6	12	6	0%	60%	27%	15%	13%	39%	0.12	0.12	1.54

LL3

• Panel Layers LowIron-LowIron			• Layers						• UV %	• Visible Light Transmittance	• Total Solar Transmittance	• Visible Reflectance		• Solar Heat Gain Coefficient	• U-Value (BTU/hrft2F)		• Light to Solar Gain
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime	
C62	Triangle	34%	3	3	N/A	N/A	N/A	N/A	0%	60%	55%	15%	15%	57%	1.00	0.90	1.06
C63	Triangle	37%	3	3	N/A	N/A	N/A	N/A	0%	57%	52%	16%	16%	54%	1.00	0.90	1.06
C64	Triangle	33%	3	3	N/A	N/A	N/A	N/A	0%	61%	56%	15%	15%	58%	1.00	0.90	1.06
C65	Triangle	24%	3	3	N/A	N/A	N/A	N/A	0%	69%	63%	13%	13%	66%	1.00	0.90	1.06
C66	Triangle	50%	3	3	N/A	N/A	N/A	N/A	0%	45%	41%	19%	19%	43%	1.00	0.90	1.06
C71	Triangle	52%	3	3	N/A	N/A	N/A	N/A	0%	44%	40%	19%	19%	42%	1.00	0.90	1.06
C72	Triangle	28%	3	3	N/A	N/A	N/A	N/A	0%	65%	60%	14%	14%	62%	1.00	0.90	1.06
C73	Triangle	37%	3	3	N/A	N/A	N/A	N/A	0%	57%	52%	16%	16%	54%	1.00	0.90	1.06

LL3

Panel Layers LowIron-LowIron			Layers						UV %	Visible Light Transmittance	Total Solar Transmittance	Visible Reflectance		Solar Heat Gain Coefficient	U-Value (BTU/hrft2F)		Light to Solar Gain
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime	
C74	Triangle	47%	3	3	N/A	N/A	N/A	N/A	0%	48%	44%	18%	18%	45%	1.00	0.90	1.06
C75	Triangle	37%	3	3	N/A	N/A	N/A	N/A	0%	57%	52%	16%	16%	54%	1.00	0.90	1.06
C76	Triangle	41%	3	3	N/A	N/A	N/A	N/A	0%	53%	49%	17%	17%	50%	1.00	0.90	1.06
C17	Hexagon	48%	3	3	N/A	N/A	N/A	N/A	0%	47%	43%	19%	19%	44%	1.00	0.90	1.06
C18	Hexagon	32%	3	3	N/A	N/A	N/A	N/A	0%	62%	56%	15%	15%	58%	1.00	0.90	1.06
C19	Hexagon	16%	3	3	N/A	N/A	N/A	N/A	0%	76%	70%	12%	12%	72%	1.00	0.90	1.06
C81	Hexagon	68%	3	3	N/A	N/A	N/A	N/A	0%	29%	27%	23%	23%	28%	1.00	0.90	1.06
C82	Hexagon	36%	3	3	N/A	N/A	N/A	N/A	0%	58%	53%	16%	16%	55%	1.00	0.90	1.06
C83	Hexagon	36%	3	3	N/A	N/A	N/A	N/A	0%	58%	53%	16%	16%	55%	1.00	0.90	1.06
C84	Hexagon	52%	3	3	N/A	N/A	N/A	N/A	0%	43%	40%	19%	19%	41%	1.00	0.90	1.06
C85	Hexagon	22%	3	3	N/A	N/A	N/A	N/A	0%	71%	65%	13%	13%	67%	1.00	0.90	1.06
C91	Hexagon	69%	3	3	N/A	N/A	N/A	N/A	0%	28%	26%	23%	23%	27%	1.00	0.90	1.06
C92	Hexagon	53%	3	3	N/A	N/A	N/A	N/A	0%	43%	39%	20%	20%	40%	1.00	0.90	1.06
C93	Hexagon	37%	3	3	N/A	N/A	N/A	N/A	0%	57%	52%	16%	16%	54%	1.00	0.90	1.06
C94	Hexagon	10%	3	3	N/A	N/A	N/A	N/A	0%	82%	75%	10%	10%	78%	1.00	0.90	1.06
C95	Hexagon	32%	3	3	N/A	N/A	N/A	N/A	0%	62%	57%	15%	15%	59%	1.00	0.90	1.06
C96	Hexagon	47%	3	3	N/A	N/A	N/A	N/A	0%	48%	44%	18%	18%	45%	1.00	0.90	1.06
C101	Parallelogram	63%	3	3	N/A	N/A	N/A	N/A	0%	34%	31%	22%	22%	32%	1.00	0.90	1.06
C102	Parallelogram	30%	3	3	N/A	N/A	N/A	N/A	0%	64%	58%	15%	15%	60%	1.00	0.90	1.06
C103	Parallelogram	37%	3	3	N/A	N/A	N/A	N/A	0%	58%	53%	16%	16%	55%	1.00	0.90	1.06
C104	Parallelogram	32%	3	3	N/A	N/A	N/A	N/A	0%	62%	57%	15%	15%	59%	1.00	0.90	1.06
C105	Parallelogram	23%	3	3	N/A	N/A	N/A	N/A	0%	70%	64%	13%	13%	66%	1.00	0.90	1.06
C106	Parallelogram	50%	3	3	N/A	N/A	N/A	N/A	0%	46%	42%	19%	19%	43%	1.00	0.90	1.06
C111	Parallelogram	53%	3	3	N/A	N/A	N/A	N/A	0%	43%	39%	20%	20%	40%	1.00	0.90	1.06
C112	Parallelogram	40%	3	3	N/A	N/A	N/A	N/A	0%	55%	50%	17%	17%	52%	1.00	0.90	1.06
C113	Parallelogram	43%	3	3	N/A	N/A	N/A	N/A	0%	52%	47%	18%	18%	49%	1.00	0.90	1.06
C114	Parallelogram	27%	3	3	N/A	N/A	N/A	N/A	0%	67%	61%	14%	14%	63%	1.00	0.90	1.06
C115	Parallelogram	40%	3	3	N/A	N/A	N/A	N/A	0%	55%	50%	17%	17%	52%	1.00	0.90	1.06
C116	Parallelogram	27%	3	3	N/A	N/A	N/A	N/A	0%	67%	61%	14%	14%	63%	1.00	0.90	1.06

LL4

● Panel Layers LowIron-LowIron			● Layers						● UV %	● Visible Light Transmittance	● Total Solar Transmittance	● Visible Reflectance		● Solar Heat Gain Coefficient	● U-Value (BTU/hrft2F)		● Light to Solar Gain
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime	
C62	Triangle	34%	4	4	N/A	N/A	N/A	N/A	1%	60%	54%	15%	15%	56%	0.99	0.90	1.07
C63	Triangle	37%	4	4	N/A	N/A	N/A	N/A	1%	57%	52%	16%	16%	54%	0.99	0.90	1.07
C64	Triangle	33%	4	4	N/A	N/A	N/A	N/A	1%	61%	55%	15%	15%	57%	0.99	0.90	1.07
C65	Triangle	24%	4	4	N/A	N/A	N/A	N/A	1%	69%	63%	13%	13%	65%	0.99	0.90	1.07
C66	Triangle	50%	4	4	N/A	N/A	N/A	N/A	0%	45%	41%	19%	19%	42%	0.99	0.90	1.07
C71	Triangle	52%	4	4	N/A	N/A	N/A	N/A	0%	44%	40%	19%	19%	41%	0.99	0.90	1.07
C72	Triangle	28%	4	4	N/A	N/A	N/A	N/A	1%	65%	59%	14%	14%	61%	0.99	0.90	1.07
C73	Triangle	37%	4	4	N/A	N/A	N/A	N/A	1%	57%	52%	16%	16%	54%	0.99	0.90	1.07
C74	Triangle	47%	4	4	N/A	N/A	N/A	N/A	1%	48%	43%	18%	18%	45%	0.99	0.90	1.07
C75	Triangle	37%	4	4	N/A	N/A	N/A	N/A	1%	57%	52%	16%	16%	54%	0.99	0.90	1.07
C76	Triangle	41%	4	4	N/A	N/A	N/A	N/A	1%	53%	48%	17%	17%	50%	0.99	0.90	1.07
C17	Hexagon	48%	4	4	N/A	N/A	N/A	N/A	1%	47%	42%	19%	19%	44%	0.99	0.90	1.07
C18	Hexagon	32%	4	4	N/A	N/A	N/A	N/A	1%	62%	56%	15%	15%	58%	0.99	0.90	1.07
C19	Hexagon	16%	4	4	N/A	N/A	N/A	N/A	1%	76%	69%	12%	12%	71%	0.99	0.90	1.07
C81	Hexagon	68%	4	4	N/A	N/A	N/A	N/A	0%	29%	26%	23%	23%	27%	0.99	0.90	1.07
C82	Hexagon	36%	4	4	N/A	N/A	N/A	N/A	1%	58%	52%	16%	16%	54%	0.99	0.90	1.07
C83	Hexagon	36%	4	4	N/A	N/A	N/A	N/A	1%	58%	52%	16%	16%	54%	0.99	0.90	1.07
C84	Hexagon	52%	4	4	N/A	N/A	N/A	N/A	0%	43%	39%	19%	19%	41%	0.99	0.90	1.07
C85	Hexagon	22%	4	4	N/A	N/A	N/A	N/A	1%	71%	64%	13%	13%	67%	0.99	0.90	1.07
C91	Hexagon	69%	4	4	N/A	N/A	N/A	N/A	0%	28%	25%	23%	23%	26%	0.99	0.90	1.07
C92	Hexagon	53%	4	4	N/A	N/A	N/A	N/A	0%	43%	38%	20%	20%	40%	0.99	0.90	1.07
C93	Hexagon	37%	4	4	N/A	N/A	N/A	N/A	1%	57%	51%	16%	16%	53%	0.99	0.90	1.07
C94	Hexagon	10%	4	4	N/A	N/A	N/A	N/A	1%	82%	74%	10%	10%	77%	0.99	0.90	1.07
C95	Hexagon	32%	4	4	N/A	N/A	N/A	N/A	1%	62%	56%	15%	15%	58%	0.99	0.90	1.07
C96	Hexagon	47%	4	4	N/A	N/A	N/A	N/A	1%	48%	43%	18%	18%	45%	0.99	0.90	1.07
C101	Parallelogram	63%	4	4	N/A	N/A	N/A	N/A	0%	34%	30%	22%	22%	31%	0.99	0.90	1.07
C102	Parallelogram	30%	4	4	N/A	N/A	N/A	N/A	1%	64%	57%	15%	15%	60%	0.99	0.90	1.07
C103	Parallelogram	37%	4	4	N/A	N/A	N/A	N/A	1%	58%	52%	16%	16%	54%	0.99	0.90	1.07
C104	Parallelogram	32%	4	4	N/A	N/A	N/A	N/A	1%	62%	56%	15%	15%	58%	0.99	0.90	1.07
C105	Parallelogram	23%	4	4	N/A	N/A	N/A	N/A	1%	70%	63%	13%	13%	65%	0.99	0.90	1.07
C106	Parallelogram	50%	4	4	N/A	N/A	N/A	N/A	1%	46%	41%	19%	19%	43%	0.99	0.90	1.07
C111	Parallelogram	53%	4	4	N/A	N/A	N/A	N/A	0%	43%	38%	20%	20%	40%	0.99	0.90	1.07
C112	Parallelogram	40%	4	4	N/A	N/A	N/A	N/A	1%	55%	49%	17%	17%	51%	0.99	0.90	1.07
C113	Parallelogram	43%	4	4	N/A	N/A	N/A	N/A	1%	52%	47%	18%	18%	48%	0.99	0.90	1.07
C114	Parallelogram	27%	4	4	N/A	N/A	N/A	N/A	1%	67%	60%	14%	14%	62%	0.99	0.90	1.07
C115	Parallelogram	40%	4	4	N/A	N/A	N/A	N/A	1%	55%	49%	17%	17%	51%	0.99	0.90	1.07
C116	Parallelogram	27%	4	4	N/A	N/A	N/A	N/A	1%	67%	60%	14%	14%	62%	0.99	0.90	1.07

LL6

• Panel Layers LowIron-LowIron			• Layers						• UV %	• Visible Light Transmittance	• Total Solar Transmittance	• Visible Reflectance		• Solar Heat Gain Coefficient	• U-Value (BTU/hrft2F)		• Light to Solar Gain
Panel Type	Shape	Cell Coverage	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime	
C62	Triangle	34%	6	6	N/A	N/A	N/A	N/A	0%	59%	53%	15%	15%	56%	0.97	0.88	1.06
C63	Triangle	37%	6	6	N/A	N/A	N/A	N/A	0%	57%	51%	16%	16%	54%	0.97	0.88	1.06
C64	Triangle	33%	6	6	N/A	N/A	N/A	N/A	0%	61%	55%	15%	15%	57%	0.97	0.88	1.06
C65	Triangle	24%	6	6	N/A	N/A	N/A	N/A	0%	69%	62%	13%	13%	65%	0.97	0.88	1.06
C66	Triangle	50%	6	6	N/A	N/A	N/A	N/A	0%	45%	40%	19%	19%	42%	0.97	0.88	1.06
C71	Triangle	52%	6	6	N/A	N/A	N/A	N/A	0%	43%	39%	19%	19%	41%	0.97	0.88	1.06
C72	Triangle	28%	6	6	N/A	N/A	N/A	N/A	0%	65%	58%	14%	14%	61%	0.97	0.88	1.06
C73	Triangle	37%	6	6	N/A	N/A	N/A	N/A	0%	57%	51%	16%	16%	54%	0.97	0.88	1.06
C74	Triangle	47%	6	6	N/A	N/A	N/A	N/A	0%	47%	43%	18%	18%	45%	0.97	0.88	1.06
C75	Triangle	37%	6	6	N/A	N/A	N/A	N/A	0%	57%	51%	16%	16%	54%	0.97	0.88	1.06
C76	Triangle	41%	6	6	N/A	N/A	N/A	N/A	0%	53%	47%	17%	17%	50%	0.97	0.88	1.06
C17	Hexagon	48%	6	6	N/A	N/A	N/A	N/A	0%	47%	42%	19%	19%	44%	0.97	0.88	1.06
C18	Hexagon	32%	6	6	N/A	N/A	N/A	N/A	0%	61%	55%	15%	15%	58%	0.97	0.88	1.06
C19	Hexagon	16%	6	6	N/A	N/A	N/A	N/A	0%	76%	68%	12%	12%	71%	0.97	0.88	1.06
C81	Hexagon	68%	6	6	N/A	N/A	N/A	N/A	0%	29%	26%	23%	23%	27%	0.97	0.88	1.06
C82	Hexagon	36%	6	6	N/A	N/A	N/A	N/A	0%	57%	51%	16%	16%	54%	0.97	0.88	1.06
C83	Hexagon	36%	6	6	N/A	N/A	N/A	N/A	0%	57%	51%	16%	16%	54%	0.97	0.88	1.06
C84	Hexagon	52%	6	6	N/A	N/A	N/A	N/A	0%	43%	39%	19%	19%	41%	0.97	0.88	1.06
C85	Hexagon	22%	6	6	N/A	N/A	N/A	N/A	0%	70%	63%	13%	13%	67%	0.97	0.88	1.06
C91	Hexagon	69%	6	6	N/A	N/A	N/A	N/A	0%	28%	25%	23%	23%	26%	0.97	0.88	1.06
C92	Hexagon	53%	6	6	N/A	N/A	N/A	N/A	0%	42%	38%	20%	20%	40%	0.97	0.88	1.06
C93	Hexagon	37%	6	6	N/A	N/A	N/A	N/A	0%	56%	51%	16%	16%	53%	0.97	0.88	1.06
C94	Hexagon	10%	6	6	N/A	N/A	N/A	N/A	0%	81%	73%	10%	10%	77%	0.97	0.88	1.06
C95	Hexagon	32%	6	6	N/A	N/A	N/A	N/A	0%	62%	55%	15%	15%	58%	0.97	0.88	1.06
C96	Hexagon	47%	6	6	N/A	N/A	N/A	N/A	0%	47%	43%	18%	18%	45%	0.97	0.88	1.06
C101	Parallelogram	63%	6	6	N/A	N/A	N/A	N/A	0%	33%	30%	22%	22%	31%	0.97	0.88	1.06
C102	Parallelogram	30%	6	6	N/A	N/A	N/A	N/A	0%	63%	57%	15%	15%	60%	0.97	0.88	1.06
C103	Parallelogram	37%	6	6	N/A	N/A	N/A	N/A	0%	57%	51%	16%	16%	54%	0.97	0.88	1.06
C104	Parallelogram	32%	6	6	N/A	N/A	N/A	N/A	0%	62%	55%	15%	15%	58%	0.97	0.88	1.06
C105	Parallelogram	23%	6	6	N/A	N/A	N/A	N/A	0%	69%	62%	13%	13%	65%	0.97	0.88	1.06
C106	Parallelogram	50%	6	6	N/A	N/A	N/A	N/A	0%	45%	41%	19%	19%	43%	0.97	0.88	1.06
C111	Parallelogram	53%	6	6	N/A	N/A	N/A	N/A	0%	42%	38%	20%	20%	40%	0.97	0.88	1.06
C112	Parallelogram	40%	6	6	N/A	N/A	N/A	N/A	0%	54%	49%	17%	17%	51%	0.97	0.88	1.06
C113	Parallelogram	43%	6	6	N/A	N/A	N/A	N/A	0%	51%	46%	18%	18%	48%	0.97	0.88	1.06
C114	Parallelogram	27%	6	6	N/A	N/A	N/A	N/A	0%	66%	59%	14%	14%	62%	0.97	0.88	1.06
C115	Parallelogram	40%	6	6	N/A	N/A	N/A	N/A	0%	54%	49%	17%	17%	51%	0.97	0.88	1.06
C116	Parallelogram	27%	6	6	N/A	N/A	N/A	N/A	0%	66%	59%	14%	14%	62%	0.97	0.88	1.06

LLLE3

• Panel Layers LowIron-LowIronLowE			• Layers						• UV %	• Visible Light Transmittance	• Total Solar Transmittance	• Visible Reflectance		• Solar Heat Gain Coefficient	• U-Value (BTU/hrft2F)		• Light to Solar Gain
Panel Type	Shape	Cell Coverage	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime	
C62	Triangle	34%	3	3	N/A	N/A	N/A	N/A	0%	50%	25%	17%	16%	30%	1.00	0.90	1.69
C63	Triangle	37%	3	3	N/A	N/A	N/A	N/A	0%	48%	24%	17%	17%	28%	1.00	0.90	1.69
C64	Triangle	33%	3	3	N/A	N/A	N/A	N/A	0%	51%	26%	17%	16%	30%	1.00	0.90	1.69
C65	Triangle	24%	3	3	N/A	N/A	N/A	N/A	0%	58%	29%	15%	14%	34%	1.00	0.90	1.69
C66	Triangle	50%	3	3	N/A	N/A	N/A	N/A	0%	38%	19%	20%	20%	22%	1.00	0.90	1.69
C71	Triangle	52%	3	3	N/A	N/A	N/A	N/A	0%	37%	18%	20%	20%	22%	1.00	0.90	1.69
C72	Triangle	28%	3	3	N/A	N/A	N/A	N/A	0%	55%	27%	16%	15%	32%	1.00	0.90	1.69
C73	Triangle	37%	3	3	N/A	N/A	N/A	N/A	0%	48%	24%	17%	17%	28%	1.00	0.90	1.69
C74	Triangle	47%	3	3	N/A	N/A	N/A	N/A	0%	40%	20%	19%	19%	24%	1.00	0.90	1.69
C75	Triangle	37%	3	3	N/A	N/A	N/A	N/A	0%	48%	24%	17%	17%	28%	1.00	0.90	1.69
C76	Triangle	41%	3	3	N/A	N/A	N/A	N/A	0%	45%	22%	18%	18%	26%	1.00	0.90	1.69
C17	Hexagon	48%	3	3	N/A	N/A	N/A	N/A	0%	39%	20%	20%	19%	23%	1.00	0.90	1.69
C18	Hexagon	32%	3	3	N/A	N/A	N/A	N/A	0%	52%	26%	16%	16%	31%	1.00	0.90	1.69
C19	Hexagon	16%	3	3	N/A	N/A	N/A	N/A	0%	64%	32%	13%	12%	38%	1.00	0.90	1.69
C81	Hexagon	68%	3	3	N/A	N/A	N/A	N/A	0%	24%	12%	24%	23%	14%	1.00	0.90	1.69
C82	Hexagon	36%	3	3	N/A	N/A	N/A	N/A	0%	48%	24%	17%	17%	29%	1.00	0.90	1.69
C83	Hexagon	36%	3	3	N/A	N/A	N/A	N/A	0%	48%	24%	17%	17%	29%	1.00	0.90	1.69
C84	Hexagon	52%	3	3	N/A	N/A	N/A	N/A	0%	36%	18%	20%	20%	21%	1.00	0.90	1.69
C85	Hexagon	22%	3	3	N/A	N/A	N/A	N/A	0%	60%	30%	14%	14%	35%	1.00	0.90	1.69
C91	Hexagon	69%	3	3	N/A	N/A	N/A	N/A	0%	24%	12%	24%	23%	14%	1.00	0.90	1.69
C92	Hexagon	53%	3	3	N/A	N/A	N/A	N/A	0%	36%	18%	21%	20%	21%	1.00	0.90	1.69
C93	Hexagon	37%	3	3	N/A	N/A	N/A	N/A	0%	48%	24%	17%	17%	28%	1.00	0.90	1.69
C94	Hexagon	10%	3	3	N/A	N/A	N/A	N/A	0%	69%	34%	12%	11%	41%	1.00	0.90	1.69
C95	Hexagon	32%	3	3	N/A	N/A	N/A	N/A	0%	52%	26%	16%	16%	31%	1.00	0.90	1.69
C96	Hexagon	47%	3	3	N/A	N/A	N/A	N/A	0%	40%	20%	19%	19%	24%	1.00	0.90	1.69
C101	Parallelogram	63%	3	3	N/A	N/A	N/A	N/A	0%	28%	14%	23%	22%	17%	1.00	0.90	1.69
C102	Parallelogram	30%	3	3	N/A	N/A	N/A	N/A	0%	53%	27%	16%	15%	32%	1.00	0.90	1.69
C103	Parallelogram	37%	3	3	N/A	N/A	N/A	N/A	0%	48%	24%	17%	17%	29%	1.00	0.90	1.69
C104	Parallelogram	32%	3	3	N/A	N/A	N/A	N/A	0%	52%	26%	16%	16%	31%	1.00	0.90	1.69
C105	Parallelogram	23%	3	3	N/A	N/A	N/A	N/A	0%	58%	29%	15%	14%	35%	1.00	0.90	1.69
C106	Parallelogram	50%	3	3	N/A	N/A	N/A	N/A	0%	38%	19%	20%	19%	23%	1.00	0.90	1.69
C111	Parallelogram	53%	3	3	N/A	N/A	N/A	N/A	0%	36%	18%	21%	20%	21%	1.00	0.90	1.69
C112	Parallelogram	40%	3	3	N/A	N/A	N/A	N/A	0%	46%	23%	18%	17%	27%	1.00	0.90	1.69
C113	Parallelogram	43%	3	3	N/A	N/A	N/A	N/A	0%	43%	22%	19%	18%	26%	1.00	0.90	1.69
C114	Parallelogram	27%	3	3	N/A	N/A	N/A	N/A	0%	56%	28%	15%	15%	33%	1.00	0.90	1.69
C115	Parallelogram	40%	3	3	N/A	N/A	N/A	N/A	0%	46%	23%	18%	17%	27%	1.00	0.90	1.69
C116	Parallelogram	27%	3	3	N/A	N/A	N/A	N/A	0%	56%	28%	15%	15%	33%	1.00	0.90	1.69

LLLE4

• Panel Layers LowIron-LowIronLowE			• Layers						• UV %	• Visible Light Transmittance	• Total Solar Transmittance	• Visible Reflectance		• Solar Heat Gain Coefficient	• U-Value (BTU/hrft2F)		• Light to Solar Gain
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime	
C62	Triangle	34%	4	4	N/A	N/A	N/A	N/A	0%	50%	25%	17%	16%	30%	0.99	0.90	1.69
C63	Triangle	37%	4	4	N/A	N/A	N/A	N/A	0%	48%	24%	17%	17%	28%	0.99	0.90	1.69
C64	Triangle	33%	4	4	N/A	N/A	N/A	N/A	0%	51%	26%	17%	16%	30%	0.99	0.90	1.69
C65	Triangle	24%	4	4	N/A	N/A	N/A	N/A	0%	58%	29%	15%	14%	34%	0.99	0.90	1.69
C66	Triangle	50%	4	4	N/A	N/A	N/A	N/A	0%	38%	19%	20%	20%	22%	0.99	0.90	1.69
C71	Triangle	52%	4	4	N/A	N/A	N/A	N/A	0%	37%	18%	20%	20%	22%	0.99	0.90	1.69
C72	Triangle	28%	4	4	N/A	N/A	N/A	N/A	0%	55%	27%	16%	15%	32%	0.99	0.90	1.69
C73	Triangle	37%	4	4	N/A	N/A	N/A	N/A	0%	48%	24%	17%	17%	28%	0.99	0.90	1.69
C74	Triangle	47%	4	4	N/A	N/A	N/A	N/A	0%	40%	20%	19%	19%	24%	0.99	0.90	1.69
C75	Triangle	37%	4	4	N/A	N/A	N/A	N/A	0%	48%	24%	17%	17%	28%	0.99	0.90	1.69
C76	Triangle	41%	4	4	N/A	N/A	N/A	N/A	0%	45%	22%	18%	18%	26%	0.99	0.90	1.69
C17	Hexagon	48%	4	4	N/A	N/A	N/A	N/A	0%	39%	20%	20%	19%	23%	0.99	0.90	1.69
C18	Hexagon	32%	4	4	N/A	N/A	N/A	N/A	0%	52%	26%	16%	16%	31%	0.99	0.90	1.69
C19	Hexagon	16%	4	4	N/A	N/A	N/A	N/A	0%	64%	32%	13%	12%	38%	0.99	0.90	1.69
C81	Hexagon	68%	4	4	N/A	N/A	N/A	N/A	0%	24%	12%	24%	23%	14%	0.99	0.90	1.69
C82	Hexagon	36%	4	4	N/A	N/A	N/A	N/A	0%	48%	24%	17%	17%	29%	0.99	0.90	1.69
C83	Hexagon	36%	4	4	N/A	N/A	N/A	N/A	0%	48%	24%	17%	17%	29%	0.99	0.90	1.69
C84	Hexagon	52%	4	4	N/A	N/A	N/A	N/A	0%	36%	18%	20%	20%	21%	0.99	0.90	1.69
C85	Hexagon	22%	4	4	N/A	N/A	N/A	N/A	0%	60%	30%	14%	14%	35%	0.99	0.90	1.69
C91	Hexagon	69%	4	4	N/A	N/A	N/A	N/A	0%	24%	12%	24%	23%	14%	0.99	0.90	1.69
C92	Hexagon	53%	4	4	N/A	N/A	N/A	N/A	0%	36%	18%	21%	20%	21%	0.99	0.90	1.69
C93	Hexagon	37%	4	4	N/A	N/A	N/A	N/A	0%	48%	24%	17%	17%	28%	0.99	0.90	1.69
C94	Hexagon	10%	4	4	N/A	N/A	N/A	N/A	0%	69%	34%	12%	11%	41%	0.99	0.90	1.69
C95	Hexagon	32%	4	4	N/A	N/A	N/A	N/A	0%	52%	26%	16%	16%	31%	0.99	0.90	1.69
C96	Hexagon	47%	4	4	N/A	N/A	N/A	N/A	0%	40%	20%	19%	19%	24%	0.99	0.90	1.69
C101	Parallelogram	63%	4	4	N/A	N/A	N/A	N/A	0%	28%	14%	23%	22%	17%	0.99	0.90	1.69
C102	Parallelogram	30%	4	4	N/A	N/A	N/A	N/A	0%	53%	27%	16%	15%	32%	0.99	0.90	1.69
C103	Parallelogram	37%	4	4	N/A	N/A	N/A	N/A	0%	48%	24%	17%	17%	29%	0.99	0.90	1.69
C104	Parallelogram	32%	4	4	N/A	N/A	N/A	N/A	0%	52%	26%	16%	16%	31%	0.99	0.90	1.69
C105	Parallelogram	23%	4	4	N/A	N/A	N/A	N/A	0%	58%	29%	15%	14%	35%	0.99	0.90	1.69
C106	Parallelogram	50%	4	4	N/A	N/A	N/A	N/A	0%	38%	19%	20%	19%	23%	0.99	0.90	1.69
C111	Parallelogram	53%	4	4	N/A	N/A	N/A	N/A	0%	36%	18%	21%	20%	21%	0.99	0.90	1.69
C112	Parallelogram	40%	4	4	N/A	N/A	N/A	N/A	0%	46%	23%	18%	17%	27%	0.99	0.90	1.69
C113	Parallelogram	43%	4	4	N/A	N/A	N/A	N/A	0%	43%	22%	19%	18%	26%	0.99	0.90	1.69
C114	Parallelogram	27%	4	4	N/A	N/A	N/A	N/A	0%	56%	28%	15%	15%	33%	0.99	0.90	1.69
C115	Parallelogram	40%	4	4	N/A	N/A	N/A	N/A	0%	46%	23%	18%	17%	27%	0.99	0.90	1.69
C116	Parallelogram	27%	4	4	N/A	N/A	N/A	N/A	0%	56%	28%	15%	15%	33%	0.99	0.90	1.69

LLLE6

• Panel Layers LowIron-LowIronLowE			• Layers						• UV %	• Visible Light Transmittance	• Total Solar Transmittance	• Visible Reflectance		• Solar Heat Gain Coefficient	• U-Value (BTU/hrft2F)		• Light to Solar Gain
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime	
C62	Triangle	34%	6	6	N/A	N/A	N/A	N/A	0%	50%	25%	17%	16%	30%	0.97	0.88	1.65
C63	Triangle	37%	6	6	N/A	N/A	N/A	N/A	0%	48%	24%	17%	17%	29%	0.97	0.88	1.65
C64	Triangle	33%	6	6	N/A	N/A	N/A	N/A	0%	51%	26%	17%	16%	31%	0.97	0.88	1.65
C65	Triangle	24%	6	6	N/A	N/A	N/A	N/A	0%	58%	29%	15%	14%	35%	0.97	0.88	1.65
C66	Triangle	50%	6	6	N/A	N/A	N/A	N/A	0%	38%	19%	20%	20%	23%	0.97	0.88	1.65
C71	Triangle	52%	6	6	N/A	N/A	N/A	N/A	0%	37%	18%	20%	20%	22%	0.97	0.88	1.65
C72	Triangle	28%	6	6	N/A	N/A	N/A	N/A	0%	55%	27%	16%	15%	33%	0.97	0.88	1.65
C73	Triangle	37%	6	6	N/A	N/A	N/A	N/A	0%	48%	24%	17%	17%	29%	0.97	0.88	1.65
C74	Triangle	47%	6	6	N/A	N/A	N/A	N/A	0%	40%	20%	19%	19%	24%	0.97	0.88	1.65
C75	Triangle	37%	6	6	N/A	N/A	N/A	N/A	0%	48%	24%	17%	17%	29%	0.97	0.88	1.65
C76	Triangle	41%	6	6	N/A	N/A	N/A	N/A	0%	45%	22%	18%	18%	27%	0.97	0.88	1.65
C17	Hexagon	48%	6	6	N/A	N/A	N/A	N/A	0%	39%	20%	20%	19%	24%	0.97	0.88	1.65
C18	Hexagon	32%	6	6	N/A	N/A	N/A	N/A	0%	52%	26%	16%	16%	31%	0.97	0.88	1.65
C19	Hexagon	16%	6	6	N/A	N/A	N/A	N/A	0%	64%	32%	13%	12%	39%	0.97	0.88	1.65
C81	Hexagon	68%	6	6	N/A	N/A	N/A	N/A	0%	24%	12%	24%	23%	15%	0.97	0.88	1.65
C82	Hexagon	36%	6	6	N/A	N/A	N/A	N/A	0%	48%	24%	17%	17%	29%	0.97	0.88	1.65
C83	Hexagon	36%	6	6	N/A	N/A	N/A	N/A	0%	48%	24%	17%	17%	29%	0.97	0.88	1.65
C84	Hexagon	52%	6	6	N/A	N/A	N/A	N/A	0%	36%	18%	20%	20%	22%	0.97	0.88	1.65
C85	Hexagon	22%	6	6	N/A	N/A	N/A	N/A	0%	60%	30%	14%	14%	36%	0.97	0.88	1.65
C91	Hexagon	69%	6	6	N/A	N/A	N/A	N/A	0%	24%	12%	24%	23%	14%	0.97	0.88	1.65
C92	Hexagon	53%	6	6	N/A	N/A	N/A	N/A	0%	36%	18%	21%	20%	22%	0.97	0.88	1.65
C93	Hexagon	37%	6	6	N/A	N/A	N/A	N/A	0%	48%	24%	17%	17%	29%	0.97	0.88	1.65
C94	Hexagon	19%	6	6	N/A	N/A	N/A	N/A	0%	69%	34%	12%	11%	41%	0.97	0.88	1.65
C95	Hexagon	32%	6	6	N/A	N/A	N/A	N/A	0%	52%	26%	16%	16%	31%	0.97	0.88	1.65
C96	Hexagon	47%	6	6	N/A	N/A	N/A	N/A	0%	40%	20%	19%	19%	24%	0.97	0.88	1.65
C101	Parallelogram	63%	6	6	N/A	N/A	N/A	N/A	0%	28%	14%	23%	22%	17%	0.97	0.88	1.65
C102	Parallelogram	30%	6	6	N/A	N/A	N/A	N/A	0%	53%	27%	16%	15%	32%	0.97	0.88	1.65
C103	Parallelogram	37%	6	6	N/A	N/A	N/A	N/A	0%	48%	24%	17%	17%	29%	0.97	0.88	1.65
C104	Parallelogram	32%	6	6	N/A	N/A	N/A	N/A	0%	52%	26%	16%	16%	31%	0.97	0.88	1.65
C105	Parallelogram	23%	6	6	N/A	N/A	N/A	N/A	0%	58%	29%	15%	14%	35%	0.97	0.88	1.65
C106	Parallelogram	50%	6	6	N/A	N/A	N/A	N/A	0%	38%	19%	20%	19%	23%	0.97	0.88	1.65
C111	Parallelogram	53%	6	6	N/A	N/A	N/A	N/A	0%	36%	18%	21%	20%	22%	0.97	0.88	1.65
C112	Parallelogram	40%	6	6	N/A	N/A	N/A	N/A	0%	46%	23%	18%	17%	28%	0.97	0.88	1.65
C113	Parallelogram	43%	6	6	N/A	N/A	N/A	N/A	0%	43%	22%	19%	18%	26%	0.97	0.88	1.65
C114	Parallelogram	27%	6	6	N/A	N/A	N/A	N/A	0%	56%	28%	15%	15%	34%	0.97	0.88	1.65
C115	Parallelogram	40%	6	6	N/A	N/A	N/A	N/A	0%	46%	23%	18%	17%	28%	0.97	0.88	1.65
C116	Parallelogram	27%	6	6	N/A	N/A	N/A	N/A	0%	56%	28%	15%	15%	34%	0.97	0.88	1.65

LLSC3

Panel Layers LowIron-LowIron-Spacer-Clear			Layers							UV %	Visible Light Transmittance	Total Solar Transmittance	Visible Reflectance		Solar Heat Gain Coefficient	U-Value (BTU/hrft2F)		Light to Solar Gain
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime		
C74	Triangle	47%	6	6	N/A	N/A	N/A	N/A	0%	40%	20%	19%	19%	24%	0.97	0.88	1.65	
C75	Triangle	37%	6	6	N/A	N/A	N/A	N/A	0%	48%	24%	17%	17%	29%	0.97	0.88	1.65	
C76	Triangle	41%	6	6	N/A	N/A	N/A	N/A	0%	45%	22%	18%	18%	27%	0.97	0.88	1.65	
C17	Hexagon	48%	6	6	N/A	N/A	N/A	N/A	0%	39%	20%	20%	19%	24%	0.97	0.88	1.65	
C18	Hexagon	32%	6	6	N/A	N/A	N/A	N/A	0%	52%	26%	16%	16%	31%	0.97	0.88	1.65	
C19	Hexagon	16%	6	6	N/A	N/A	N/A	N/A	0%	64%	32%	13%	12%	39%	0.97	0.88	1.65	
C81	Hexagon	68%	6	6	N/A	N/A	N/A	N/A	0%	24%	12%	24%	23%	15%	0.97	0.88	1.65	
C82	Hexagon	36%	6	6	N/A	N/A	N/A	N/A	0%	48%	24%	17%	17%	29%	0.97	0.88	1.65	
C83	Hexagon	36%	6	6	N/A	N/A	N/A	N/A	0%	48%	24%	17%	17%	29%	0.97	0.88	1.65	
C84	Hexagon	52%	6	6	N/A	N/A	N/A	N/A	0%	36%	18%	20%	20%	22%	0.97	0.88	1.65	
C85	Hexagon	22%	6	6	N/A	N/A	N/A	N/A	0%	60%	30%	14%	14%	36%	0.97	0.88	1.65	
C91	Hexagon	69%	6	6	N/A	N/A	N/A	N/A	0%	24%	12%	24%	23%	14%	0.97	0.88	1.65	
C92	Hexagon	53%	6	6	N/A	N/A	N/A	N/A	0%	36%	18%	21%	20%	22%	0.97	0.88	1.65	
C93	Hexagon	37%	6	6	N/A	N/A	N/A	N/A	0%	48%	24%	17%	17%	29%	0.97	0.88	1.65	
C94	Hexagon	10%	6	6	N/A	N/A	N/A	N/A	0%	69%	34%	12%	11%	41%	0.97	0.88	1.65	
C95	Hexagon	32%	6	6	N/A	N/A	N/A	N/A	0%	52%	26%	16%	16%	31%	0.97	0.88	1.65	
C96	Hexagon	47%	6	6	N/A	N/A	N/A	N/A	0%	40%	20%	19%	19%	24%	0.97	0.88	1.65	
C101	Parallelogram	63%	6	6	N/A	N/A	N/A	N/A	0%	28%	14%	23%	22%	17%	0.97	0.88	1.65	
C102	Parallelogram	30%	6	6	N/A	N/A	N/A	N/A	0%	53%	27%	16%	15%	32%	0.97	0.88	1.65	
C103	Parallelogram	37%	6	6	N/A	N/A	N/A	N/A	0%	48%	24%	17%	17%	29%	0.97	0.88	1.65	
C104	Parallelogram	32%	6	6	N/A	N/A	N/A	N/A	0%	52%	26%	16%	16%	31%	0.97	0.88	1.65	
C105	Parallelogram	23%	6	6	N/A	N/A	N/A	N/A	0%	58%	29%	15%	14%	35%	0.97	0.88	1.65	
C106	Parallelogram	50%	6	6	N/A	N/A	N/A	N/A	0%	36%	19%	20%	19%	23%	0.97	0.88	1.65	
C111	Parallelogram	53%	6	6	N/A	N/A	N/A	N/A	0%	36%	18%	21%	20%	22%	0.97	0.88	1.65	
C112	Parallelogram	40%	6	6	N/A	N/A	N/A	N/A	0%	46%	23%	18%	17%	28%	0.97	0.88	1.65	
C113	Parallelogram	43%	6	6	N/A	N/A	N/A	N/A	0%	43%	22%	19%	18%	26%	0.97	0.88	1.65	
C114	Parallelogram	27%	6	6	N/A	N/A	N/A	N/A	0%	56%	28%	15%	15%	34%	0.97	0.88	1.65	
C115	Parallelogram	40%	6	6	N/A	N/A	N/A	N/A	0%	46%	23%	18%	17%	28%	0.97	0.88	1.65	
C116	Parallelogram	27%	6	6	N/A	N/A	N/A	N/A	0%	56%	28%	15%	15%	34%	0.97	0.88	1.65	

LLSC4

Panel Layers LowIron-LowIron-Spacer-Clear			Layers						UV %	Visible Light Transmittance	Total Solar Transmittance	Visible Reflectance		Solar Heat Gain Coefficient	U-Value (BTU/hrft2F)		Light to Solar Gain
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime	
C74	Triangle	47%	6	6	N/A	N/A	N/A	N/A	0%	40%	20%	19%	19%	24%	0.97	0.88	1.65
C75	Triangle	37%	6	6	N/A	N/A	N/A	N/A	0%	48%	24%	17%	17%	29%	0.97	0.88	1.65
C76	Triangle	41%	6	6	N/A	N/A	N/A	N/A	0%	45%	22%	18%	18%	27%	0.97	0.88	1.65
C17	Hexagon	48%	6	6	N/A	N/A	N/A	N/A	0%	39%	20%	20%	19%	24%	0.97	0.88	1.65
C18	Hexagon	32%	6	6	N/A	N/A	N/A	N/A	0%	52%	26%	16%	16%	31%	0.97	0.88	1.65
C19	Hexagon	16%	6	6	N/A	N/A	N/A	N/A	0%	64%	32%	13%	12%	39%	0.97	0.88	1.65
C81	Hexagon	68%	6	6	N/A	N/A	N/A	N/A	0%	24%	12%	24%	23%	15%	0.97	0.88	1.65
C82	Hexagon	36%	6	6	N/A	N/A	N/A	N/A	0%	48%	24%	17%	17%	29%	0.97	0.88	1.65
C83	Hexagon	36%	6	6	N/A	N/A	N/A	N/A	0%	48%	24%	17%	17%	29%	0.97	0.88	1.65
C84	Hexagon	52%	6	6	N/A	N/A	N/A	N/A	0%	36%	18%	20%	20%	22%	0.97	0.88	1.65
C85	Hexagon	22%	6	6	N/A	N/A	N/A	N/A	0%	60%	30%	14%	14%	36%	0.97	0.88	1.65
C91	Hexagon	69%	6	6	N/A	N/A	N/A	N/A	0%	24%	12%	24%	23%	14%	0.97	0.88	1.65
C92	Hexagon	53%	6	6	N/A	N/A	N/A	N/A	0%	36%	18%	21%	20%	22%	0.97	0.88	1.65
C93	Hexagon	37%	6	6	N/A	N/A	N/A	N/A	0%	48%	24%	17%	17%	29%	0.97	0.88	1.65
C94	Hexagon	10%	6	6	N/A	N/A	N/A	N/A	0%	69%	34%	12%	11%	41%	0.97	0.88	1.65
C95	Hexagon	32%	6	6	N/A	N/A	N/A	N/A	0%	52%	26%	16%	16%	31%	0.97	0.88	1.65
C96	Hexagon	47%	6	6	N/A	N/A	N/A	N/A	0%	40%	20%	19%	19%	24%	0.97	0.88	1.65
C101	Parallelogram	63%	6	6	N/A	N/A	N/A	N/A	0%	28%	14%	23%	22%	17%	0.97	0.88	1.65
C102	Parallelogram	30%	6	6	N/A	N/A	N/A	N/A	0%	53%	27%	16%	15%	32%	0.97	0.88	1.65
C103	Parallelogram	37%	6	6	N/A	N/A	N/A	N/A	0%	48%	24%	17%	17%	29%	0.97	0.88	1.65
C104	Parallelogram	32%	6	6	N/A	N/A	N/A	N/A	0%	52%	26%	16%	16%	31%	0.97	0.88	1.65
C105	Parallelogram	23%	6	6	N/A	N/A	N/A	N/A	0%	58%	29%	15%	14%	35%	0.97	0.88	1.65
C106	Parallelogram	50%	6	6	N/A	N/A	N/A	N/A	0%	38%	19%	20%	19%	23%	0.97	0.88	1.65
C111	Parallelogram	53%	6	6	N/A	N/A	N/A	N/A	0%	36%	18%	21%	20%	22%	0.97	0.88	1.65
C112	Parallelogram	40%	6	6	N/A	N/A	N/A	N/A	0%	46%	23%	18%	17%	28%	0.97	0.88	1.65
C113	Parallelogram	43%	6	6	N/A	N/A	N/A	N/A	0%	43%	22%	19%	18%	26%	0.97	0.88	1.65
C114	Parallelogram	27%	6	6	N/A	N/A	N/A	N/A	0%	56%	28%	15%	15%	34%	0.97	0.88	1.65
C115	Parallelogram	40%	6	6	N/A	N/A	N/A	N/A	0%	46%	23%	18%	17%	28%	0.97	0.88	1.65
C116	Parallelogram	27%	6	6	N/A	N/A	N/A	N/A	0%	56%	28%	15%	15%	34%	0.97	0.88	1.65

LLSC6

Table with columns: Panel Type, Shape, Cell Coverage, Glass L1 Thickness, Glass L2 Thickness, Spacer Size, Glass L3 Thickness, Spacer Size, Glass L4 Thickness, UV %, Visible Light Transmittance, Total Solar Transmittance, Visible Reflectance (Exterior/Interior), Solar Heat Gain Coefficient, U-Value (Winter Nighttime/Summer Daytime), and Light to Solar Gain. Rows include Non-Active panels, A1-A7, A8-A27, A28-A56, A57-A115, B1-B36, C11-C73.

LLSC6

Panel Layers LowIron-LowIron-Spacer-Clear			Layers							UV %	Visible Light Transmittance	Total Solar Transmittance	Visible Reflectance		Solar Heat Gain Coefficient	U-Value (BTU/hrft2F)		Light to Solar Gain
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime		
C74	Triangle	47%	6	6	12	6	N/A	N/A	0%	43%	33%	22%	22%	38%	0.44	0.46	1.11	
C75	Triangle	37%	6	6	12	6	N/A	N/A	0%	51%	40%	21%	21%	46%	0.44	0.46	1.11	
C76	Triangle	41%	6	6	12	6	N/A	N/A	0%	47%	37%	21%	21%	43%	0.44	0.46	1.11	
C17	Hexagon	48%	6	6	12	6	N/A	N/A	0%	42%	33%	22%	22%	38%	0.44	0.46	1.11	
C18	Hexagon	32%	6	6	12	6	N/A	N/A	0%	55%	43%	20%	20%	50%	0.44	0.46	1.11	
C19	Hexagon	16%	6	6	12	6	N/A	N/A	0%	68%	53%	17%	17%	61%	0.44	0.46	1.11	
C81	Hexagon	68%	6	6	12	6	N/A	N/A	0%	26%	20%	25%	25%	23%	0.44	0.46	1.11	
C82	Hexagon	36%	6	6	12	6	N/A	N/A	0%	51%	40%	20%	20%	46%	0.44	0.46	1.11	
C83	Hexagon	36%	6	6	12	6	N/A	N/A	0%	51%	40%	20%	20%	46%	0.44	0.46	1.11	
C84	Hexagon	52%	6	6	12	6	N/A	N/A	0%	39%	30%	23%	23%	35%	0.44	0.46	1.11	
C85	Hexagon	22%	6	6	12	6	N/A	N/A	0%	63%	49%	18%	18%	57%	0.44	0.46	1.11	
C81	Hexagon	69%	6	6	12	6	N/A	N/A	0%	25%	20%	25%	25%	23%	0.44	0.46	1.11	
C82	Hexagon	53%	6	6	12	6	N/A	N/A	0%	36%	29%	23%	23%	34%	0.44	0.46	1.11	
C83	Hexagon	37%	6	6	12	6	N/A	N/A	0%	51%	39%	21%	21%	46%	0.44	0.46	1.11	
C84	Hexagon	10%	6	6	12	6	N/A	N/A	0%	73%	57%	16%	16%	66%	0.44	0.46	1.11	
C85	Hexagon	32%	6	6	12	6	N/A	N/A	0%	55%	43%	20%	20%	50%	0.44	0.46	1.11	
C86	Hexagon	47%	6	6	12	6	N/A	N/A	0%	43%	33%	22%	22%	38%	0.44	0.46	1.11	
C101	Parallelogram	63%	6	6	12	6	N/A	N/A	0%	30%	23%	24%	24%	27%	0.44	0.46	1.11	
C102	Parallelogram	30%	6	6	12	6	N/A	N/A	0%	57%	44%	19%	19%	51%	0.44	0.46	1.11	
C103	Parallelogram	37%	6	6	12	6	N/A	N/A	0%	51%	40%	20%	20%	46%	0.44	0.46	1.11	
C104	Parallelogram	32%	6	6	12	6	N/A	N/A	0%	55%	43%	20%	20%	50%	0.44	0.46	1.11	
C105	Parallelogram	23%	6	6	12	6	N/A	N/A	0%	62%	48%	18%	18%	56%	0.44	0.46	1.11	
C106	Parallelogram	50%	6	6	12	6	N/A	N/A	0%	41%	32%	22%	22%	37%	0.44	0.46	1.11	
C111	Parallelogram	53%	6	6	12	6	N/A	N/A	0%	38%	29%	23%	23%	34%	0.44	0.46	1.11	
C112	Parallelogram	40%	6	6	12	6	N/A	N/A	0%	49%	38%	21%	21%	44%	0.44	0.46	1.11	
C113	Parallelogram	43%	6	6	12	6	N/A	N/A	0%	46%	36%	21%	21%	41%	0.44	0.46	1.11	
C114	Parallelogram	27%	6	6	12	6	N/A	N/A	0%	59%	46%	19%	19%	54%	0.44	0.46	1.11	
C115	Parallelogram	40%	6	6	12	6	N/A	N/A	0%	49%	38%	21%	21%	44%	0.44	0.46	1.11	
C116	Parallelogram	27%	6	6	12	6	N/A	N/A	0%	59%	46%	19%	19%	54%	0.44	0.46	1.11	

LLSL3

Panel Layers LowIron-LowIron-Spacer-LowIron			Layers						UV %	Visible Light Transmittance	Total Solar Transmittance	Visible Reflectance		Solar Heat Gain Coefficient	U-Value (BTU/hrft2F)		Light to Solar Gain
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime	
C74	Triangle	47%	3	3	12	3	N/A	N/A	0%	44%	40%	22%	22%	41%	0.45	0.47	1.08
C75	Triangle	37%	3	3	12	3	N/A	N/A	0%	53%	48%	21%	21%	49%	0.45	0.47	1.08
C76	Triangle	41%	3	3	12	3	N/A	N/A	0%	49%	45%	21%	21%	46%	0.45	0.47	1.08
C17	Hexagon	48%	3	3	12	3	N/A	N/A	0%	43%	39%	22%	22%	40%	0.45	0.47	1.08
C18	Hexagon	32%	3	3	12	3	N/A	N/A	0%	57%	52%	20%	20%	53%	0.45	0.47	1.08
C19	Hexagon	16%	3	3	12	3	N/A	N/A	0%	70%	64%	17%	17%	65%	0.45	0.47	1.08
C81	Hexagon	68%	3	3	12	3	N/A	N/A	0%	27%	24%	25%	25%	25%	0.45	0.47	1.08
C82	Hexagon	36%	3	3	12	3	N/A	N/A	0%	53%	48%	20%	20%	50%	0.45	0.47	1.08
C83	Hexagon	36%	3	3	12	3	N/A	N/A	0%	53%	48%	20%	20%	50%	0.45	0.47	1.08
C84	Hexagon	52%	3	3	12	3	N/A	N/A	0%	40%	36%	23%	23%	37%	0.45	0.47	1.08
C85	Hexagon	22%	3	3	12	3	N/A	N/A	0%	66%	60%	18%	18%	61%	0.45	0.47	1.08
C91	Hexagon	69%	3	3	12	3	N/A	N/A	0%	26%	24%	25%	25%	24%	0.45	0.47	1.08
C92	Hexagon	53%	3	3	12	3	N/A	N/A	0%	39%	36%	23%	23%	36%	0.45	0.47	1.08
C93	Hexagon	37%	3	3	12	3	N/A	N/A	0%	53%	48%	21%	21%	49%	0.45	0.47	1.08
C94	Hexagon	10%	3	3	12	3	N/A	N/A	0%	76%	69%	16%	16%	70%	0.45	0.47	1.08
C95	Hexagon	32%	3	3	12	3	N/A	N/A	0%	59%	52%	20%	20%	53%	0.45	0.47	1.08
C96	Hexagon	47%	3	3	12	3	N/A	N/A	0%	44%	40%	22%	22%	41%	0.45	0.47	1.08
C101	Parallelogram	63%	3	3	12	3	N/A	N/A	0%	31%	28%	24%	24%	29%	0.45	0.47	1.08
C102	Parallelogram	30%	3	3	12	3	N/A	N/A	0%	59%	53%	19%	19%	55%	0.45	0.47	1.08
C103	Parallelogram	37%	3	3	12	3	N/A	N/A	0%	53%	48%	20%	20%	49%	0.45	0.47	1.08
C104	Parallelogram	32%	3	3	12	3	N/A	N/A	0%	57%	52%	20%	20%	53%	0.45	0.47	1.08
C105	Parallelogram	23%	3	3	12	3	N/A	N/A	0%	64%	58%	18%	18%	60%	0.45	0.47	1.08
C106	Parallelogram	59%	3	3	12	3	N/A	N/A	0%	42%	38%	22%	22%	39%	0.45	0.47	1.08
C111	Parallelogram	53%	3	3	12	3	N/A	N/A	0%	39%	36%	23%	23%	36%	0.45	0.47	1.08
C112	Parallelogram	40%	3	3	12	3	N/A	N/A	0%	50%	46%	21%	21%	47%	0.45	0.47	1.08
C113	Parallelogram	43%	3	3	12	3	N/A	N/A	0%	48%	43%	21%	21%	44%	0.45	0.47	1.08
C114	Parallelogram	27%	3	3	12	3	N/A	N/A	0%	62%	56%	19%	19%	57%	0.45	0.47	1.08
C115	Parallelogram	40%	3	3	12	3	N/A	N/A	0%	50%	46%	21%	21%	47%	0.45	0.47	1.08
C116	Parallelogram	27%	3	3	12	3	N/A	N/A	0%	62%	56%	19%	19%	57%	0.45	0.47	1.08

LLSL4

Panel Layers LowIron-LowIron-Spacer-LowIron			Layers						UV %	Visible Light Transmittance	Total Solar Transmittance	Visible Reflectance		Solar Heat Gain Coefficient	U-Value (BTU/hrft2F)		Light to Solar Gain
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime	
C74	Triangle	47%	4	4	12	4	N/A	N/A	1%	44%	40%	22%	22%	41%	0.44	0.47	1.08
C75	Triangle	37%	4	4	12	4	N/A	N/A	1%	52%	47%	21%	21%	49%	0.44	0.47	1.08
C76	Triangle	41%	4	4	12	4	N/A	N/A	1%	49%	44%	21%	21%	45%	0.44	0.47	1.08
C17	Hexagon	48%	4	4	12	4	N/A	N/A	1%	43%	39%	22%	22%	40%	0.44	0.47	1.08
C18	Hexagon	32%	4	4	12	4	N/A	N/A	1%	56%	51%	20%	20%	52%	0.44	0.47	1.08
C19	Hexagon	16%	4	4	12	4	N/A	N/A	1%	70%	63%	17%	17%	65%	0.44	0.47	1.08
C81	Hexagon	68%	4	4	12	4	N/A	N/A	0%	27%	24%	25%	25%	25%	0.44	0.47	1.08
C82	Hexagon	36%	4	4	12	4	N/A	N/A	1%	53%	48%	20%	20%	49%	0.44	0.47	1.08
C83	Hexagon	36%	4	4	12	4	N/A	N/A	1%	53%	48%	20%	20%	49%	0.44	0.47	1.08
C84	Hexagon	52%	4	4	12	4	N/A	N/A	0%	40%	36%	23%	23%	37%	0.44	0.47	1.08
C85	Hexagon	22%	4	4	12	4	N/A	N/A	1%	65%	59%	18%	18%	60%	0.44	0.47	1.08
C91	Hexagon	69%	4	4	12	4	N/A	N/A	0%	28%	23%	25%	25%	24%	0.44	0.47	1.08
C92	Hexagon	53%	4	4	12	4	N/A	N/A	0%	39%	35%	23%	23%	36%	0.44	0.47	1.08
C93	Hexagon	37%	4	4	12	4	N/A	N/A	1%	52%	47%	21%	21%	48%	0.44	0.47	1.08
C94	Hexagon	10%	4	4	12	4	N/A	N/A	1%	75%	68%	16%	16%	69%	0.44	0.47	1.08
C95	Hexagon	32%	4	4	12	4	N/A	N/A	1%	57%	51%	20%	20%	53%	0.44	0.47	1.08
C96	Hexagon	47%	4	4	12	4	N/A	N/A	1%	44%	40%	22%	22%	41%	0.44	0.47	1.08
C101	Parallelogram	63%	4	4	12	4	N/A	N/A	0%	31%	28%	24%	24%	28%	0.44	0.47	1.08
C102	Parallelogram	30%	4	4	12	4	N/A	N/A	1%	58%	53%	19%	19%	54%	0.44	0.47	1.08
C103	Parallelogram	37%	4	4	12	4	N/A	N/A	1%	53%	48%	20%	20%	49%	0.44	0.47	1.08
C104	Parallelogram	32%	4	4	12	4	N/A	N/A	1%	57%	51%	20%	20%	53%	0.44	0.47	1.08
C105	Parallelogram	23%	4	4	12	4	N/A	N/A	1%	64%	58%	18%	18%	59%	0.44	0.47	1.08
C106	Parallelogram	50%	4	4	12	4	N/A	N/A	1%	42%	38%	22%	22%	39%	0.44	0.47	1.08
C111	Parallelogram	53%	4	4	12	4	N/A	N/A	0%	39%	35%	23%	23%	36%	0.44	0.47	1.08
C112	Parallelogram	40%	4	4	12	4	N/A	N/A	1%	50%	45%	21%	21%	46%	0.44	0.47	1.08
C113	Parallelogram	43%	4	4	12	4	N/A	N/A	1%	47%	43%	21%	21%	44%	0.44	0.47	1.08
C114	Parallelogram	27%	4	4	12	4	N/A	N/A	1%	61%	55%	19%	19%	57%	0.44	0.47	1.08
C115	Parallelogram	40%	4	4	12	4	N/A	N/A	1%	50%	45%	21%	21%	46%	0.44	0.47	1.08
C116	Parallelogram	27%	4	4	12	4	N/A	N/A	1%	61%	55%	19%	19%	57%	0.44	0.47	1.08

LLSL6

Panel Layers LowIron-LowIron-Spacer-LowIron			Layers						UV %	Visible Light Transmittance	Total Solar Transmittance	Visible Reflectance		Solar Heat Gain Coefficient	U-Value (BTU/hrft2F)		Light to Solar Gain
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime	
C74	Triangle	47%	6	6	12	6	N/A	N/A	0%	44%	38%	22%	22%	40%	0.44	0.46	1.09
C75	Triangle	37%	6	6	12	6	N/A	N/A	0%	52%	46%	21%	21%	48%	0.44	0.46	1.09
C76	Triangle	41%	6	6	12	6	N/A	N/A	0%	49%	43%	21%	21%	45%	0.44	0.46	1.09
C17	Hexagon	48%	6	6	12	6	N/A	N/A	0%	43%	38%	22%	22%	39%	0.44	0.46	1.09
C18	Hexagon	32%	6	6	12	6	N/A	N/A	0%	56%	50%	20%	20%	52%	0.44	0.46	1.09
C19	Hexagon	16%	6	6	12	6	N/A	N/A	0%	70%	61%	17%	17%	64%	0.44	0.46	1.09
C81	Hexagon	68%	6	6	12	6	N/A	N/A	0%	27%	23%	25%	25%	24%	0.44	0.46	1.09
C82	Hexagon	36%	6	6	12	6	N/A	N/A	0%	53%	46%	20%	20%	48%	0.44	0.46	1.09
C83	Hexagon	36%	6	6	12	6	N/A	N/A	0%	53%	46%	20%	20%	48%	0.44	0.46	1.09
C84	Hexagon	52%	6	6	12	6	N/A	N/A	0%	40%	35%	23%	23%	36%	0.44	0.46	1.09
C85	Hexagon	22%	6	6	12	6	N/A	N/A	0%	65%	57%	18%	18%	60%	0.44	0.46	1.09
C91	Hexagon	69%	6	6	12	6	N/A	N/A	0%	28%	23%	25%	25%	24%	0.44	0.46	1.09
C92	Hexagon	53%	6	6	12	6	N/A	N/A	0%	39%	34%	23%	23%	36%	0.44	0.46	1.09
C93	Hexagon	37%	6	6	12	6	N/A	N/A	0%	52%	46%	21%	21%	48%	0.44	0.46	1.09
C94	Hexagon	10%	6	6	12	6	N/A	N/A	0%	75%	66%	16%	16%	69%	0.44	0.46	1.09
C95	Hexagon	32%	6	6	12	6	N/A	N/A	0%	57%	50%	20%	20%	52%	0.44	0.46	1.09
C96	Hexagon	47%	6	6	12	6	N/A	N/A	0%	44%	38%	22%	22%	40%	0.44	0.46	1.09
C101	Parallelogram	63%	6	6	12	6	N/A	N/A	0%	31%	27%	24%	24%	28%	0.44	0.46	1.09
C102	Parallelogram	30%	6	6	12	6	N/A	N/A	0%	58%	51%	19%	19%	53%	0.44	0.46	1.09
C103	Parallelogram	37%	6	6	12	6	N/A	N/A	0%	53%	46%	20%	20%	48%	0.44	0.46	1.09
C104	Parallelogram	32%	6	6	12	6	N/A	N/A	0%	57%	50%	20%	20%	52%	0.44	0.46	1.09
C105	Parallelogram	23%	6	6	12	6	N/A	N/A	0%	64%	56%	18%	18%	58%	0.44	0.46	1.09
C106	Parallelogram	50%	6	6	12	6	N/A	N/A	0%	42%	37%	22%	22%	38%	0.44	0.46	1.09
C111	Parallelogram	53%	6	6	12	6	N/A	N/A	0%	39%	34%	23%	23%	36%	0.44	0.46	1.09
C112	Parallelogram	40%	6	6	12	6	N/A	N/A	0%	50%	44%	21%	21%	46%	0.44	0.46	1.09
C113	Parallelogram	43%	6	6	12	6	N/A	N/A	0%	47%	41%	21%	21%	43%	0.44	0.46	1.09
C114	Parallelogram	27%	6	6	12	6	N/A	N/A	0%	61%	54%	19%	19%	56%	0.44	0.46	1.09
C115	Parallelogram	40%	6	6	12	6	N/A	N/A	0%	50%	44%	21%	21%	46%	0.44	0.46	1.09
C116	Parallelogram	27%	6	6	12	6	N/A	N/A	0%	61%	54%	19%	19%	56%	0.44	0.46	1.09

LLSCLE3

Panel Layers LowIron-LowIron-Spacer-LowEClear			Layers						UV %	Visible Light Transmittance	Total Solar Transmittance	Visible Reflectance		Solar Heat Gain Coefficient	U-Value (BTU/hrft2F)		Light to Solar Gain
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime	
C74	Triangle	47%	3	3	12	3	N/A	N/A	0%	38%	19%	21%	20%	25%	0.24	0.22	1.52
C75	Triangle	37%	3	3	12	3	N/A	N/A	0%	46%	23%	19%	18%	30%	0.24	0.22	1.52
C76	Triangle	41%	3	3	12	3	N/A	N/A	0%	43%	22%	19%	19%	28%	0.24	0.22	1.52
C17	Hexagon	48%	3	3	12	3	N/A	N/A	0%	38%	19%	21%	20%	25%	0.24	0.22	1.52
C18	Hexagon	32%	3	3	12	3	N/A	N/A	0%	50%	25%	18%	17%	33%	0.24	0.22	1.52
C19	Hexagon	16%	3	3	12	3	N/A	N/A	0%	61%	31%	15%	14%	40%	0.24	0.22	1.52
C81	Hexagon	68%	3	3	12	3	N/A	N/A	0%	23%	12%	24%	24%	15%	0.24	0.22	1.52
C82	Hexagon	36%	3	3	12	3	N/A	N/A	0%	46%	24%	19%	18%	31%	0.24	0.22	1.52
C83	Hexagon	36%	3	3	12	3	N/A	N/A	0%	46%	24%	19%	18%	31%	0.24	0.22	1.52
C84	Hexagon	52%	3	3	12	3	N/A	N/A	0%	35%	18%	21%	21%	23%	0.24	0.22	1.52
C85	Hexagon	22%	3	3	12	3	N/A	N/A	0%	57%	29%	16%	15%	38%	0.24	0.22	1.52
C91	Hexagon	69%	3	3	12	3	N/A	N/A	0%	23%	11%	24%	24%	15%	0.24	0.22	1.52
C92	Hexagon	53%	3	3	12	3	N/A	N/A	0%	34%	17%	22%	21%	22%	0.24	0.22	1.52
C93	Hexagon	37%	3	3	12	3	N/A	N/A	0%	46%	23%	19%	18%	30%	0.24	0.22	1.52
C94	Hexagon	10%	3	3	12	3	N/A	N/A	0%	66%	33%	14%	15%	43%	0.24	0.22	1.52
C95	Hexagon	32%	3	3	12	3	N/A	N/A	0%	50%	25%	18%	17%	33%	0.24	0.22	1.52
C96	Hexagon	47%	3	3	12	3	N/A	N/A	0%	38%	20%	21%	20%	25%	0.24	0.22	1.52
C101	Parallelogram	63%	3	3	12	3	N/A	N/A	0%	27%	14%	23%	23%	18%	0.24	0.22	1.52
C102	Parallelogram	30%	3	3	12	3	N/A	N/A	0%	51%	26%	17%	17%	34%	0.24	0.22	1.52
C103	Parallelogram	37%	3	3	12	3	N/A	N/A	0%	46%	23%	19%	18%	30%	0.24	0.22	1.52
C104	Parallelogram	32%	3	3	12	3	N/A	N/A	0%	50%	25%	18%	17%	33%	0.24	0.22	1.52
C105	Parallelogram	23%	3	3	12	3	N/A	N/A	0%	56%	28%	16%	15%	37%	0.24	0.22	1.52
C106	Parallelogram	50%	3	3	12	3	N/A	N/A	0%	37%	19%	21%	20%	24%	0.24	0.22	1.52
C111	Parallelogram	53%	3	3	12	3	N/A	N/A	0%	34%	17%	22%	21%	22%	0.24	0.22	1.52
C112	Parallelogram	40%	3	3	12	3	N/A	N/A	0%	44%	22%	19%	19%	29%	0.24	0.22	1.52
C113	Parallelogram	43%	3	3	12	3	N/A	N/A	0%	41%	21%	20%	19%	27%	0.24	0.22	1.52
C114	Parallelogram	27%	3	3	12	3	N/A	N/A	0%	54%	27%	17%	16%	35%	0.24	0.22	1.52
C115	Parallelogram	40%	3	3	12	3	N/A	N/A	0%	44%	22%	19%	19%	29%	0.24	0.22	1.52
C116	Parallelogram	27%	3	3	12	3	N/A	N/A	0%	54%	27%	17%	16%	35%	0.24	0.22	1.52

LLSCLE4

• Panel Layers LowIron-LowIron-Spacer-LowEClear			• Layers						• UV	• Visible Light	• Total Solar	• Visible	• Solar Heat	• U-Value (BTU/hrft2F)		• Light to Solar	
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness	%	Transmittance	Transmittance	Reflectance		Coefficient	Winter Nighttime	Summer Daytime	Gain
												Exterior	Interior				
Non-Active	Any Shape	0%	4	4	12	4	N/A	N/A	0%	73%	36%	12%	11%	48%	0.24	0.22	1.52
A1	Rectangle	92%	4	4	12	4	N/A	N/A	0%	29%	3%	29%	28%	4%	0.24	0.22	1.52
A2	Rectangle	61%	4	4	12	4	N/A	N/A	0%	28%	14%	23%	23%	19%	0.24	0.22	1.52
A3	Rectangle	61%	4	4	12	4	N/A	N/A	0%	28%	14%	23%	23%	19%	0.24	0.22	1.52
A4	Rectangle	31%	4	4	12	4	N/A	N/A	0%	51%	25%	18%	17%	33%	0.24	0.22	1.52
A5	Rectangle	31%	4	4	12	4	N/A	N/A	0%	51%	25%	18%	17%	33%	0.24	0.22	1.52
A6	Rectangle	15%	4	4	12	4	N/A	N/A	0%	62%	30%	15%	14%	41%	0.24	0.22	1.52
A7	Rectangle	31%	4	4	12	4	N/A	N/A	0%	51%	25%	18%	17%	33%	0.24	0.22	1.52
A8	Rectangle	46%	4	4	12	4	N/A	N/A	0%	40%	19%	20%	20%	26%	0.24	0.22	1.52
A21	Rectangle	76%	4	4	12	4	N/A	N/A	0%	17%	8%	26%	26%	11%	0.24	0.22	1.52
A22	Rectangle	38%	4	4	12	4	N/A	N/A	0%	45%	22%	19%	18%	30%	0.24	0.22	1.52
A23	Rectangle	15%	4	4	12	4	N/A	N/A	0%	62%	30%	15%	14%	41%	0.24	0.22	1.52
A24	Rectangle	46%	4	4	12	4	N/A	N/A	0%	40%	19%	20%	20%	26%	0.24	0.22	1.52
A25	Rectangle	31%	4	4	12	4	N/A	N/A	0%	51%	25%	18%	17%	33%	0.24	0.22	1.52
A26	Rectangle	15%	4	4	12	4	N/A	N/A	0%	62%	30%	15%	14%	41%	0.24	0.22	1.52
A27	Rectangle	23%	4	4	12	4	N/A	N/A	0%	56%	28%	16%	15%	37%	0.24	0.22	1.52
A31	Rectangle	31%	4	4	12	4	N/A	N/A	0%	51%	25%	18%	17%	33%	0.24	0.22	1.52
A32	Rectangle	20%	4	4	12	4	N/A	N/A	0%	58%	29%	16%	15%	38%	0.24	0.22	1.52
A33	Rectangle	10%	4	4	12	4	N/A	N/A	0%	68%	32%	14%	13%	43%	0.24	0.22	1.52
A34	Rectangle	5%	4	4	12	4	N/A	N/A	0%	69%	34%	13%	12%	46%	0.24	0.22	1.52
A41	Rectangle	74%	4	4	12	4	N/A	N/A	0%	19%	9%	25%	25%	13%	0.24	0.22	1.52
A42	Rectangle	47%	4	4	12	4	N/A	N/A	0%	39%	19%	20%	20%	25%	0.24	0.22	1.52
A43	Rectangle	14%	4	4	12	4	N/A	N/A	0%	63%	31%	15%	14%	41%	0.24	0.22	1.52
A44	Rectangle	10%	4	4	12	4	N/A	N/A	0%	66%	32%	14%	13%	43%	0.24	0.22	1.52
A45	Rectangle	43%	4	4	12	4	N/A	N/A	0%	41%	20%	20%	19%	27%	0.24	0.22	1.52
A46	Rectangle	60%	4	4	12	4	N/A	N/A	0%	29%	14%	23%	22%	19%	0.24	0.22	1.52
A51	Rectangle	57%	4	4	12	4	N/A	N/A	0%	31%	15%	22%	22%	20%	0.24	0.22	1.52
A52	Rectangle	27%	4	4	12	4	N/A	N/A	0%	53%	26%	17%	16%	35%	0.24	0.22	1.52
A53	Rectangle	22%	4	4	12	4	N/A	N/A	0%	57%	28%	16%	15%	38%	0.24	0.22	1.52
A54	Rectangle	87%	4	4	12	4	N/A	N/A	0%	10%	5%	28%	27%	6%	0.24	0.22	1.52
A55	Rectangle	69%	4	4	12	4	N/A	N/A	0%	23%	11%	24%	24%	15%	0.24	0.22	1.52
A56	Rectangle	61%	4	4	12	4	N/A	N/A	0%	28%	14%	23%	23%	19%	0.24	0.22	1.52
A111	Rectangle	46%	4	4	12	4	N/A	N/A	0%	40%	19%	20%	20%	26%	0.24	0.22	1.52
A112	Rectangle	23%	4	4	12	4	N/A	N/A	0%	56%	28%	16%	15%	37%	0.24	0.22	1.52
A113	Rectangle	23%	4	4	12	4	N/A	N/A	0%	56%	28%	16%	15%	37%	0.24	0.22	1.52
A114	Rectangle	23%	4	4	12	4	N/A	N/A	0%	56%	28%	16%	15%	37%	0.24	0.22	1.52
A115	Rectangle	11%	4	4	12	4	N/A	N/A	0%	65%	32%	14%	13%	42%	0.24	0.22	1.52
A116	Rectangle	34%	4	4	12	4	N/A	N/A	0%	48%	24%	18%	18%	31%	0.24	0.22	1.52
A121	Rectangle	36%	4	4	12	4	N/A	N/A	0%	47%	23%	18%	18%	31%	0.24	0.22	1.52
A122	Rectangle	15%	4	4	12	4	N/A	N/A	0%	62%	30%	15%	14%	41%	0.24	0.22	1.52
A123	Rectangle	20%	4	4	12	4	N/A	N/A	0%	58%	29%	16%	15%	38%	0.24	0.22	1.52
A124	Rectangle	36%	4	4	12	4	N/A	N/A	0%	47%	23%	18%	18%	31%	0.24	0.22	1.52
A125	Rectangle	25%	4	4	12	4	N/A	N/A	0%	54%	27%	17%	16%	36%	0.24	0.22	1.52
A126	Rectangle	18%	4	4	12	4	N/A	N/A	0%	60%	30%	15%	14%	39%	0.24	0.22	1.52
A127	Rectangle	18%	4	4	12	4	N/A	N/A	0%	60%	30%	15%	14%	39%	0.24	0.22	1.52
A128	Rectangle	8%	4	4	12	4	N/A	N/A	0%	67%	33%	13%	12%	44%	0.24	0.22	1.52
B1	Rectangle-Half S	87%	4	4	12	4	N/A	N/A	0%	9%	5%	28%	28%	6%	0.24	0.22	1.52
B2	Rectangle-Half S	58%	4	4	12	4	N/A	N/A	0%	30%	15%	22%	22%	20%	0.24	0.22	1.52
B3	Rectangle-Half S	58%	4	4	12	4	N/A	N/A	0%	30%	15%	22%	22%	20%	0.24	0.22	1.52
B4	Rectangle-Half S	29%	4	4	12	4	N/A	N/A	0%	52%	26%	17%	17%	34%	0.24	0.22	1.52
B5	Rectangle-Half S	29%	4	4	12	4	N/A	N/A	0%	52%	26%	17%	17%	34%	0.24	0.22	1.52
B6	Rectangle-Half S	15%	4	4	12	4	N/A	N/A	0%	62%	31%	15%	14%	41%	0.24	0.22	1.52
B7	Rectangle-Half S	29%	4	4	12	4	N/A	N/A	0%	52%	26%	17%	17%	34%	0.24	0.22	1.52
B8	Rectangle-Half S	44%	4	4	12	4	N/A	N/A	0%	41%	20%	20%	19%	27%	0.24	0.22	1.52
B21	Rectangle-Half S	73%	4	4	12	4	N/A	N/A	0%	20%	10%	25%	25%	13%	0.24	0.22	1.52
B22	Rectangle-Half S	44%	4	4	12	4	N/A	N/A	0%	41%	20%	20%	19%	27%	0.24	0.22	1.52
B23	Rectangle-Half S	15%	4	4	12	4	N/A	N/A	0%	62%	31%	15%	14%	41%	0.24	0.22	1.52
B24	Rectangle-Half S	58%	4	4	12	4	N/A	N/A	0%	30%	15%	22%	22%	20%	0.24	0.22	1.52
B25	Rectangle-Half S	29%	4	4	12	4	N/A	N/A	0%	52%	26%	17%	17%	34%	0.24	0.22	1.52
B26	Rectangle-Half S	44%	4	4	12	4	N/A	N/A	0%	41%	20%	20%	19%	27%	0.24	0.22	1.52
B31	Rectangle-Half S	39%	4	4	12	4	N/A	N/A	0%	45%	22%	19%	18%	29%	0.24	0.22	1.52
B32	Rectangle-Half S	19%	4	4	12	4	N/A	N/A	0%	59%	29%	15%	15%	39%	0.24	0.22	1.52
B33	Rectangle-Half S	39%	4	4	12	4	N/A	N/A	0%	45%	22%	19%	18%	29%	0.24	0.22	1.52
B34	Rectangle-Half S	19%	4	4	12	4	N/A	N/A	0%	59%	29%	15%	15%	39%	0.24	0.22	1.52
B35	Rectangle-Half S	10%	4	4	12	4	N/A	N/A	0%	66%	33%	14%	13%	43%	0.24	0.22	1.52
B36	Rectangle-Half S	32%	4	4	12	4	N/A	N/A	0%	50%	25%	18%	17%	33%	0.24	0.22	1.52
C11	Circle	60%	4	4	12	4	N/A	N/A	0%	29%	14%	23%	22%	19%	0.24	0.22	1.52
C12	Circle	40%	4	4	12	4	N/A	N/A	0%	44%	22%	19%	19%	29%	0.24	0.22	1.52
C13	Circle	20%	4	4	12	4	N/A	N/A	0%	58%	29%	16%	15%	38%	0.24	0.22	1.52
C21	Circle	78%	4	4	12	4	N/A	N/A	0%	16%	8%	26%	26%	10%	0.24	0.22	1.52
C22	Circle	79%	4	4	12	4	N/A	N/A	0%	15%	8%	26%	26%	10%	0.24	0.22	1.52
C23	Circle	42%	4	4	12	4	N/A	N/A	0%	42%	21%	20%	19%	28%	0.24	0.22	1.52
C24	Circle	38%	4	4	12	4	N/A	N/A	0%	45%	22%	19%	18%	30%	0.24	0.22	1.52
C25	Circle	65%	4	4	12	4	N/A	N/A	0%	25%	13%	24%	23%	17%	0.24	0.22	1.52
C31	Circle	70%	4	4	12	4	N/A	N/A	0%	22%	11%	25%	24%	14%	0.24	0.22	1.52
C32	Circle	57%	4	4	12	4	N/A	N/A	0%	31%	15%	22%	22%	21%	0.24	0.22	1.52
C33	Circle	35%	4	4	12	4	N/A	N/A	0%	47%	23%	18%	18%	31%	0.24	0.22	1.52
C34	Circle	63%	4	4	12	4	N/A	N/A	0%	27%	13%	23%	23%	18%	0.24	0.22	1.52
C35	Circle	40%	4	4	12	4	N/A	N/A	0%	44%	22%	19%	19%	29%	0.24	0.22	1.52
C36	Circle	20%	4	4	12	4	N/A	N/A	0%	58%	29%	16%	15%	38%	0.24	0.22	1.52
C41	Circle	52%	4	4	12	4	N/A	N/A	0%	35%	17%	21%	21%	23%	0.24	0.22	1.52
C42	Circle	34%	4	4	12	4	N/A	N/A	0%	48%	24%	18%	18%	32%	0.24	0.22	1.52
C43	Circle	44%	4	4	12	4	N/A	N/A	0%	41%	20%	20%	19%	27%	0.24	0.22	1.52
C51	Circle	54%	4	4	12	4	N/A	N/A	0%	34%	17%	22%	21%	22%	0.24	0.22	1.52
C52	Circle	44%	4	4	12	4	N/A	N/A	0%	41%	20%	20%	19%	27%	0.24	0.22	1.52
C53	Circle	46%	4	4	12	4	N/A	N/A	0%	40%	20%	20%	20%	26%	0.24	0.22	1.52
C54	Circle	49%	4	4	12	4	N/A	N/A	0%	37%	18%	21%	20%	25%	0.24	0.22	1.52
C55	Circle	36%	4	4	12	4	N/A	N/A	0%	47%	23%	18%	18%	31%	0.24	0.22	1.52
C14	Triangle	51%	4	4	12	4	N/A	N/A	0%	36%	18%	21%	21%	24%	0.24	0.22	1.52
C15	Triangle	38%	4	4	12	4	N/A	N/A	0%	47%	23%	18%	18%	31%	0.24	0.22	1.52
C16	Triangle	31%	4	4	12	4	N/A	N/A	0%	51%	25%	18%	17%	33%	0.24		

LLSCLE4

Panel Layers LowIron-LowIron-Spacer-LowEClear			Layers						UV %	Visible Light Transmittance	Total Solar Transmittance	Visible Reflectance		Solar Heat Gain Coefficient	U-Value (BTU/hrft2F)		Light to Solar Gain
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime	
C74	Triangle	47%	4	4	12	4	N/A	N/A	0%	38%	19%	21%	20%	25%	0.24	0.22	1.52
C75	Triangle	37%	4	4	12	4	N/A	N/A	0%	46%	23%	19%	18%	30%	0.24	0.22	1.52
C76	Triangle	41%	4	4	12	4	N/A	N/A	0%	43%	21%	19%	19%	28%	0.24	0.22	1.52
C17	Hexagon	48%	4	4	12	4	N/A	N/A	0%	38%	19%	21%	20%	25%	0.24	0.22	1.52
C18	Hexagon	32%	4	4	12	4	N/A	N/A	0%	50%	24%	18%	17%	33%	0.24	0.22	1.52
C19	Hexagon	16%	4	4	12	4	N/A	N/A	0%	61%	30%	15%	14%	40%	0.24	0.22	1.52
C81	Hexagon	68%	4	4	12	4	N/A	N/A	0%	23%	12%	24%	24%	15%	0.24	0.22	1.52
C82	Hexagon	36%	4	4	12	4	N/A	N/A	0%	46%	23%	19%	18%	31%	0.24	0.22	1.52
C83	Hexagon	36%	4	4	12	4	N/A	N/A	0%	46%	23%	19%	18%	31%	0.24	0.22	1.52
C84	Hexagon	52%	4	4	12	4	N/A	N/A	0%	35%	17%	21%	21%	23%	0.24	0.22	1.52
C85	Hexagon	22%	4	4	12	4	N/A	N/A	0%	57%	28%	16%	15%	38%	0.24	0.22	1.52
C91	Hexagon	69%	4	4	12	4	N/A	N/A	0%	23%	11%	24%	24%	15%	0.24	0.22	1.52
C92	Hexagon	53%	4	4	12	4	N/A	N/A	0%	34%	17%	22%	21%	22%	0.24	0.22	1.52
C93	Hexagon	37%	4	4	12	4	N/A	N/A	0%	46%	23%	19%	18%	30%	0.24	0.22	1.52
C94	Hexagon	10%	4	4	12	4	N/A	N/A	0%	66%	32%	14%	13%	43%	0.24	0.22	1.52
C95	Hexagon	32%	4	4	12	4	N/A	N/A	0%	50%	25%	18%	17%	33%	0.24	0.22	1.52
C96	Hexagon	47%	4	4	12	4	N/A	N/A	0%	38%	19%	21%	20%	25%	0.24	0.22	1.52
C101	Parallelogram	63%	4	4	12	4	N/A	N/A	0%	27%	13%	23%	23%	16%	0.24	0.22	1.52
C102	Parallelogram	30%	4	4	12	4	N/A	N/A	0%	51%	25%	17%	17%	34%	0.24	0.22	1.52
C103	Parallelogram	37%	4	4	12	4	N/A	N/A	0%	46%	23%	19%	18%	30%	0.24	0.22	1.52
C104	Parallelogram	32%	4	4	12	4	N/A	N/A	0%	50%	25%	18%	17%	33%	0.24	0.22	1.52
C105	Parallelogram	23%	4	4	12	4	N/A	N/A	0%	56%	28%	16%	15%	37%	0.24	0.22	1.52
C106	Parallelogram	50%	4	4	12	4	N/A	N/A	0%	37%	18%	21%	20%	24%	0.24	0.22	1.52
C111	Parallelogram	53%	4	4	12	4	N/A	N/A	0%	34%	17%	22%	21%	22%	0.24	0.22	1.52
C112	Parallelogram	40%	4	4	12	4	N/A	N/A	0%	44%	22%	19%	19%	29%	0.24	0.22	1.52
C113	Parallelogram	43%	4	4	12	4	N/A	N/A	0%	41%	20%	20%	19%	27%	0.24	0.22	1.52
C114	Parallelogram	27%	4	4	12	4	N/A	N/A	0%	54%	26%	17%	16%	35%	0.24	0.22	1.52
C115	Parallelogram	40%	4	4	12	4	N/A	N/A	0%	44%	22%	19%	19%	29%	0.24	0.22	1.52
C116	Parallelogram	27%	4	4	12	4	N/A	N/A	0%	54%	26%	17%	16%	35%	0.24	0.22	1.52

LLSCLE6

• Panel Layers			• Layers						• UV			• Visible Light		• Total Solar		• Visible		• Solar Heat		• U-Value (BTU/hrft2F)		• Light
LowIrron-LowIrron-Spacer-LowE/Clear									• %	• Transmittance	• Transmittance		• Reflectance		• Gain Coefficient		• Winter		• to Solar			
Panel Type	Shape	Coil Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness			Exterior	Interior	Nighttime	Summertime	Gain							
Non-Active	Any Shape	0%	6	6	12	6	N/A	N/A	0%	72%	35%	12%	11%	48%	0.24	0.22	1.50					
A1	Rectangle	92%	6	6	12	6	N/A	N/A	0%	29%	6%	29%	28%	4%	0.24	0.22	1.50					
A2	Rectangle	61%	6	6	12	6	N/A	N/A	0%	28%	14%	23%	23%	19%	0.24	0.22	1.50					
A3	Rectangle	61%	6	6	12	6	N/A	N/A	0%	28%	14%	23%	23%	19%	0.24	0.22	1.50					
A4	Rectangle	31%	6	6	12	6	N/A	N/A	0%	50%	24%	18%	17%	33%	0.24	0.22	1.50					
A5	Rectangle	31%	6	6	12	6	N/A	N/A	0%	50%	24%	18%	17%	33%	0.24	0.22	1.50					
A6	Rectangle	15%	6	6	12	6	N/A	N/A	0%	61%	30%	15%	14%	41%	0.24	0.22	1.50					
A7	Rectangle	31%	6	6	12	6	N/A	N/A	0%	50%	24%	18%	17%	33%	0.24	0.22	1.50					
A8	Rectangle	46%	6	6	12	6	N/A	N/A	0%	39%	19%	20%	20%	26%	0.24	0.22	1.50					
A21	Rectangle	76%	6	6	12	6	N/A	N/A	0%	17%	8%	26%	26%	11%	0.24	0.22	1.50					
A22	Rectangle	38%	6	6	12	6	N/A	N/A	0%	44%	22%	19%	18%	30%	0.24	0.22	1.50					
A23	Rectangle	15%	6	6	12	6	N/A	N/A	0%	61%	30%	15%	14%	41%	0.24	0.22	1.50					
A24	Rectangle	46%	6	6	12	6	N/A	N/A	0%	39%	19%	20%	20%	26%	0.24	0.22	1.50					
A25	Rectangle	31%	6	6	12	6	N/A	N/A	0%	50%	24%	18%	17%	33%	0.24	0.22	1.50					
A26	Rectangle	19%	6	6	12	6	N/A	N/A	0%	61%	30%	15%	14%	41%	0.24	0.22	1.50					
A27	Rectangle	23%	6	6	12	6	N/A	N/A	0%	50%	27%	16%	15%	37%	0.24	0.22	1.50					
A31	Rectangle	31%	6	6	12	6	N/A	N/A	0%	50%	24%	18%	17%	33%	0.24	0.22	1.50					
A32	Rectangle	20%	6	6	12	6	N/A	N/A	0%	57%	28%	16%	15%	38%	0.24	0.22	1.50					
A33	Rectangle	10%	6	6	12	6	N/A	N/A	0%	65%	31%	14%	13%	43%	0.24	0.22	1.50					
A34	Rectangle	5%	6	6	12	6	N/A	N/A	0%	68%	33%	13%	12%	46%	0.24	0.22	1.50					
A41	Rectangle	74%	6	6	12	6	N/A	N/A	0%	19%	9%	25%	25%	15%	0.24	0.22	1.50					
A42	Rectangle	47%	6	6	12	6	N/A	N/A	0%	38%	19%	20%	20%	25%	0.24	0.22	1.50					
A43	Rectangle	14%	6	6	12	6	N/A	N/A	0%	62%	30%	15%	14%	41%	0.24	0.22	1.50					
A44	Rectangle	10%	6	6	12	6	N/A	N/A	0%	65%	31%	14%	13%	43%	0.24	0.22	1.50					
A45	Rectangle	43%	6	6	12	6	N/A	N/A	0%	41%	20%	20%	19%	27%	0.24	0.22	1.50					
A46	Rectangle	60%	6	6	12	6	N/A	N/A	0%	29%	14%	23%	22%	19%	0.24	0.22	1.50					
A51	Rectangle	57%	6	6	12	6	N/A	N/A	0%	31%	15%	22%	22%	20%	0.24	0.22	1.50					
A52	Rectangle	27%	6	6	12	6	N/A	N/A	0%	53%	26%	17%	16%	35%	0.24	0.22	1.50					
A53	Rectangle	22%	6	6	12	6	N/A	N/A	0%	56%	27%	16%	15%	38%	0.24	0.22	1.50					
A54	Rectangle	87%	6	6	12	6	N/A	N/A	0%	10%	5%	28%	27%	6%	0.24	0.22	1.50					
A55	Rectangle	69%	6	6	12	6	N/A	N/A	0%	22%	11%	24%	24%	15%	0.24	0.22	1.50					
A56	Rectangle	61%	6	6	12	6	N/A	N/A	0%	28%	14%	23%	23%	19%	0.24	0.22	1.50					
A111	Rectangle	46%	6	6	12	6	N/A	N/A	0%	39%	19%	20%	20%	26%	0.24	0.22	1.50					
A112	Rectangle	23%	6	6	12	6	N/A	N/A	0%	55%	27%	16%	15%	37%	0.24	0.22	1.50					
A113	Rectangle	23%	6	6	12	6	N/A	N/A	0%	55%	27%	16%	15%	37%	0.24	0.22	1.50					
A114	Rectangle	23%	6	6	12	6	N/A	N/A	0%	55%	27%	16%	15%	37%	0.24	0.22	1.50					
A115	Rectangle	11%	6	6	12	6	N/A	N/A	0%	64%	31%	14%	13%	42%	0.24	0.22	1.50					
A116	Rectangle	34%	6	6	12	6	N/A	N/A	0%	47%	23%	18%	18%	31%	0.24	0.22	1.50					
A121	Rectangle	36%	6	6	12	6	N/A	N/A	0%	46%	23%	18%	18%	31%	0.24	0.22	1.50					
A122	Rectangle	15%	6	6	12	6	N/A	N/A	0%	61%	30%	15%	14%	41%	0.24	0.22	1.50					
A123	Rectangle	20%	6	6	12	6	N/A	N/A	0%	57%	28%	16%	15%	38%	0.24	0.22	1.50					
A124	Rectangle	36%	6	6	12	6	N/A	N/A	0%	46%	23%	18%	18%	31%	0.24	0.22	1.50					
A125	Rectangle	25%	6	6	12	6	N/A	N/A	0%	54%	26%	17%	16%	36%	0.24	0.22	1.50					
A126	Rectangle	18%	6	6	12	6	N/A	N/A	0%	59%	29%	15%	14%	39%	0.24	0.22	1.50					
A127	Rectangle	18%	6	6	12	6	N/A	N/A	0%	59%	29%	15%	14%	39%	0.24	0.22	1.50					
A128	Rectangle	8%	6	6	12	6	N/A	N/A	0%	66%	32%	13%	12%	44%	0.24	0.22	1.50					
B1	Rectangle-Half S	87%	6	6	12	6	N/A	N/A	0%	9%	4%	28%	28%	6%	0.24	0.22	1.50					
B2	Rectangle-Half S	58%	6	6	12	6	N/A	N/A	0%	30%	15%	22%	22%	20%	0.24	0.22	1.50					
B3	Rectangle-Half S	58%	6	6	12	6	N/A	N/A	0%	30%	15%	22%	22%	20%	0.24	0.22	1.50					
B4	Rectangle-Half S	29%	6	6	12	6	N/A	N/A	0%	51%	25%	17%	17%	34%	0.24	0.22	1.50					
B5	Rectangle-Half S	29%	6	6	12	6	N/A	N/A	0%	51%	25%	17%	17%	34%	0.24	0.22	1.50					
B6	Rectangle-Half S	15%	6	6	12	6	N/A	N/A	0%	62%	30%	15%	14%	41%	0.24	0.22	1.50					
B7	Rectangle-Half S	29%	6	6	12	6	N/A	N/A	0%	51%	25%	17%	17%	34%	0.24	0.22	1.50					
B8	Rectangle-Half S	44%	6	6	12	6	N/A	N/A	0%	41%	20%	20%	19%	27%	0.24	0.22	1.50					
B21	Rectangle-Half S	73%	6	6	12	6	N/A	N/A	0%	20%	10%	25%	25%	15%	0.24	0.22	1.50					
B22	Rectangle-Half S	44%	6	6	12	6	N/A	N/A	0%	41%	20%	20%	19%	27%	0.24	0.22	1.50					
B23	Rectangle-Half S	15%	6	6	12	6	N/A	N/A	0%	62%	30%	15%	14%	41%	0.24	0.22	1.50					
B24	Rectangle-Half S	58%	6	6	12	6	N/A	N/A	0%	30%	15%	22%	22%	20%	0.24	0.22	1.50					
B25	Rectangle-Half S	29%	6	6	12	6	N/A	N/A	0%	51%	25%	17%	17%	34%	0.24	0.22	1.50					
B26	Rectangle-Half S	44%	6	6	12	6	N/A	N/A	0%	41%	20%	20%	19%	27%	0.24	0.22	1.50					
B31	Rectangle-Half S	39%	6	6	12	6	N/A	N/A	0%	44%	21%	19%	18%	29%	0.24	0.22	1.50					
B32	Rectangle-Half S	19%	6	6	12	6	N/A	N/A	0%	58%	28%	15%	15%	39%	0.24	0.22	1.50					
B33	Rectangle-Half S	39%	6	6	12	6	N/A	N/A	0%	44%	21%	19%	18%	29%	0.24	0.22	1.50					
B34	Rectangle-Half S	19%	6	6	12	6	N/A	N/A	0%	58%	28%	15%	15%	39%	0.24	0.22	1.50					
B35	Rectangle-Half S	10%	6	6	12	6	N/A	N/A	0%	65%	32%	14%	13%	43%	0.24	0.22	1.50					
B36	Rectangle-Half S	32%	6	6	12	6	N/A	N/A	0%	49%	24%	18%	17%	33%	0.24	0.22	1.50					
C11	Circle	60%	6	6	12	6	N/A	N/A	0%	29%	14%	23%	22%	19%	0.24	0.22	1.50					
C12	Circle	40%	6	6	12	6	N/A	N/A	0%	43%	21%	19%	19%	29%	0.24	0.22	1.50					
C13	Circle	20%	6	6	12	6	N/A	N/A	0%	58%	28%	16%	15%	38%	0.24	0.22	1.50					
C21	Circle	78%	6	6	12	6	N/A	N/A	0%	16%	8%	26%	26%	10%	0.24	0.22	1.50					
C22	Circle	79%	6	6	12	6	N/A	N/A	0%	15%	7%	26%	26%	10%	0.24	0.22	1.50					
C23	Circle	42%	6	6	12	6	N/A	N/A	0%	41%	20%	20%	19%	28%	0.24	0.22	1.50					
C24	Circle	38%	6	6	12	6	N/A	N/A	0%	44%	22%	19%	18%	30%	0.24	0.22	1.50					
C25	Circle	65%	6	6	12	6	N/A	N/A	0%	25%	12%	24%	23%	17%	0.24	0.22	1.50					
C31	Circle	70%	6	6	12	6	N/A	N/A	0%	22%	10%	25%	24%	14%	0.24	0.22	1.50					
C32	Circle	57%	6	6	12	6	N/A	N/A	0%	31%	15%	22%	22%	21%	0.24	0.22	1.50					
C33	Circle	35%	6	6	12	6	N/A	N/A	0%	47%	23%	18%	18%	31%	0.24	0.22	1.50					
C34	Circle	63%	6	6	12	6	N/A	N/A	0%	27%	13%	23%	23%	18%	0.24	0.22	1.50					
C35	Circle	40%	6	6	12	6	N/A	N/A	0%	43%	21%	19%	19%	29%	0.24	0.22	1.50					
C36	Circle	20%	6	6	12	6	N/A	N/A	0%	57%	28%	16%	15%	38%	0.24	0.22	1.50					
C41	Circle	52%	6	6	12	6	N/A	N/A	0%	34%	17%	21%	21%	23%	0.24	0.22	1.50					
C42	Circle	34%	6	6	12	6	N/A	N/A	0%	47%	23%	18%	18%	32%	0.24	0.22	1.50					
C43	Circle	44%	6	6	12	6	N/A	N/A	0%	40%	20%	20%	19%	27%	0.24	0.22	1.50					
C51	Circle	54%	6	6	12	6	N/A	N/A	0%	33%	16%	22%	21%	22%	0.24	0.22	1.50					
C52	Circle	44%	6	6	12	6	N/A	N/A	0%	40%	20%	20%	19%	27%	0.24	0.22	1.50					
C53	Circle	46%	6	6	12	6	N/A	N/A	0%	39%	19%	20%	20%	26%	0.24	0.22	1.50					
C54	Circle	49%	6	6	12	6	N/A	N/A	0%	37%	18%	21%	20%	25%	0.24	0.22	1.50					
C55	Circle	36%	6	6	12	6	N/A	N/A	0%	46%	22%	18%	18%	31%	0.24	0.22	1.50					
C14	Triangle	51%	6	6	12	6	N/A	N/A	0%	35%	17%	21%	21%	24%	0.24	0.22	1.50					
C15	Triangle	36%	6	6	12	6	N/A	N/A	0%	48%	23%	18%	18%	31%	0.24	0.22	1.50					
C16	Triangle	31%	6	6	12	6	N/A	N/A	0%	50%	24%	18%	17%	33%	0.24	0.22	1.50					
C51	Triangle	65%	6	6	12	6	N/A	N/A	0%	25%	12%	24%	23%	17%	0.24	0.						

LLSCLE6

Panel Layers LowIron-LowIron-Spacer-LowE Clear			Layers						UV %	Visible Light Transmittance	Total Solar Transmittance	Visible Reflectance		Solar Heat Gain Coefficient	U-Value (BTU/hrft2F)		Light to Solar Gain
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime	
C74	Triangle	47%	6	6	12	6	N/A	N/A	0%	38%	18%	21%	20%	25%	0.24	0.22	1.50
C75	Triangle	37%	6	6	12	6	N/A	N/A	0%	45%	22%	19%	18%	30%	0.24	0.22	1.50
C76	Triangle	41%	6	6	12	6	N/A	N/A	0%	42%	21%	19%	19%	28%	0.24	0.22	1.50
C17	Hexagon	48%	6	6	12	6	N/A	N/A	0%	37%	18%	21%	20%	25%	0.24	0.22	1.50
C18	Hexagon	32%	6	6	12	6	N/A	N/A	0%	49%	24%	18%	17%	33%	0.24	0.22	1.50
C19	Hexagon	16%	6	6	12	6	N/A	N/A	0%	60%	29%	15%	14%	40%	0.24	0.22	1.50
C81	Hexagon	68%	6	6	12	6	N/A	N/A	0%	23%	11%	24%	24%	15%	0.24	0.22	1.50
C82	Hexagon	36%	6	6	12	6	N/A	N/A	0%	46%	22%	19%	18%	31%	0.24	0.22	1.50
C83	Hexagon	36%	6	6	12	6	N/A	N/A	0%	46%	22%	19%	18%	31%	0.24	0.22	1.50
C84	Hexagon	52%	6	6	12	6	N/A	N/A	0%	34%	17%	21%	21%	23%	0.24	0.22	1.50
C85	Hexagon	22%	6	6	12	6	N/A	N/A	0%	56%	27%	16%	15%	38%	0.24	0.22	1.50
C91	Hexagon	69%	6	6	12	6	N/A	N/A	0%	22%	11%	24%	24%	15%	0.24	0.22	1.50
C92	Hexagon	53%	6	6	12	6	N/A	N/A	0%	34%	16%	22%	21%	22%	0.24	0.22	1.50
C93	Hexagon	37%	6	6	12	6	N/A	N/A	0%	45%	22%	19%	18%	30%	0.24	0.22	1.50
C94	Hexagon	10%	6	6	12	6	N/A	N/A	0%	65%	32%	14%	13%	43%	0.24	0.22	1.50
C95	Hexagon	32%	6	6	12	6	N/A	N/A	0%	49%	24%	18%	17%	33%	0.24	0.22	1.50
C96	Hexagon	47%	6	6	12	6	N/A	N/A	0%	39%	18%	21%	20%	25%	0.24	0.22	1.50
C101	Parallelogram	63%	6	6	12	6	N/A	N/A	0%	27%	13%	23%	23%	18%	0.24	0.22	1.50
C102	Parallelogram	30%	6	6	12	6	N/A	N/A	0%	50%	25%	17%	17%	34%	0.24	0.22	1.50
C103	Parallelogram	37%	6	6	12	6	N/A	N/A	0%	46%	22%	19%	18%	30%	0.24	0.22	1.50
C104	Parallelogram	32%	6	6	12	6	N/A	N/A	0%	49%	24%	18%	17%	33%	0.24	0.22	1.50
C105	Parallelogram	23%	6	6	12	6	N/A	N/A	0%	55%	27%	16%	15%	37%	0.24	0.22	1.50
C106	Parallelogram	50%	6	6	12	6	N/A	N/A	0%	36%	18%	21%	20%	24%	0.24	0.22	1.50
C111	Parallelogram	53%	6	6	12	6	N/A	N/A	0%	34%	16%	22%	21%	22%	0.24	0.22	1.50
C112	Parallelogram	40%	6	6	12	6	N/A	N/A	0%	43%	21%	19%	19%	29%	0.24	0.22	1.50
C113	Parallelogram	43%	6	6	12	6	N/A	N/A	0%	41%	20%	20%	19%	27%	0.24	0.22	1.50
C114	Parallelogram	27%	6	6	12	6	N/A	N/A	0%	53%	26%	17%	16%	35%	0.24	0.22	1.50
C115	Parallelogram	40%	6	6	12	6	N/A	N/A	0%	43%	21%	19%	19%	29%	0.24	0.22	1.50
C116	Parallelogram	27%	6	6	12	6	N/A	N/A	0%	53%	26%	17%	16%	35%	0.24	0.22	1.50

LLSLE3

Panel Layers LowIron-LowIron-Spacer-LowLowIron			Layers						UV %	Visible Light Transmittance	Total Solar Transmittance	Visible Reflectance		Solar Heat Gain Coefficient	U-Value (BTU/hrft2F)		Light to Solar Gain
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime	
Non-Active	Any Shape	0%	3	3	12	3	N/A	N/A	0%	75%	38%	12%	11%	48%	0.29	0.27	1.56
A1	Rectangle	92%	3	3	12	3	N/A	N/A	0%	6%	3%	29%	28%	4%	0.29	0.27	1.56
A2	Rectangle	61%	3	3	12	3	N/A	N/A	0%	29%	15%	23%	23%	19%	0.29	0.27	1.56
A3	Rectangle	61%	3	3	12	3	N/A	N/A	0%	29%	15%	23%	23%	19%	0.29	0.27	1.56
A4	Rectangle	31%	3	3	12	3	N/A	N/A	0%	52%	26%	18%	17%	33%	0.29	0.27	1.56
A5	Rectangle	31%	3	3	12	3	N/A	N/A	0%	52%	26%	18%	17%	33%	0.29	0.27	1.56
A6	Rectangle	15%	3	3	12	3	N/A	N/A	0%	64%	32%	15%	14%	41%	0.29	0.27	1.56
A7	Rectangle	31%	3	3	12	3	N/A	N/A	0%	52%	26%	18%	17%	33%	0.29	0.27	1.56
A8	Rectangle	46%	3	3	12	3	N/A	N/A	0%	41%	21%	20%	20%	26%	0.29	0.27	1.56
A21	Rectangle	76%	3	3	12	3	N/A	N/A	0%	18%	9%	26%	26%	11%	0.29	0.27	1.56
A22	Rectangle	38%	3	3	12	3	N/A	N/A	0%	46%	23%	19%	18%	30%	0.29	0.27	1.56
A23	Rectangle	15%	3	3	12	3	N/A	N/A	0%	64%	32%	15%	14%	41%	0.29	0.27	1.56
A24	Rectangle	46%	3	3	12	3	N/A	N/A	0%	41%	21%	20%	20%	26%	0.29	0.27	1.56
A25	Rectangle	31%	3	3	12	3	N/A	N/A	0%	52%	26%	18%	17%	33%	0.29	0.27	1.56
A26	Rectangle	15%	3	3	12	3	N/A	N/A	0%	64%	32%	15%	14%	41%	0.29	0.27	1.56
A27	Rectangle	23%	3	3	12	3	N/A	N/A	0%	58%	29%	16%	15%	37%	0.29	0.27	1.56
A31	Rectangle	31%	3	3	12	3	N/A	N/A	0%	52%	26%	18%	17%	33%	0.29	0.27	1.56
A32	Rectangle	20%	3	3	12	3	N/A	N/A	0%	60%	30%	16%	15%	38%	0.29	0.27	1.56
A33	Rectangle	10%	3	3	12	3	N/A	N/A	0%	67%	34%	14%	13%	43%	0.29	0.27	1.56
A34	Rectangle	5%	3	3	12	3	N/A	N/A	0%	71%	36%	13%	12%	46%	0.29	0.27	1.56
A41	Rectangle	74%	3	3	12	3	N/A	N/A	0%	20%	10%	25%	25%	13%	0.29	0.27	1.56
A42	Rectangle	47%	3	3	12	3	N/A	N/A	0%	40%	20%	20%	20%	25%	0.29	0.27	1.56
A43	Rectangle	14%	3	3	12	3	N/A	N/A	0%	64%	33%	15%	14%	41%	0.29	0.27	1.56
A44	Rectangle	10%	3	3	12	3	N/A	N/A	0%	67%	34%	14%	13%	43%	0.29	0.27	1.56
A45	Rectangle	43%	3	3	12	3	N/A	N/A	0%	43%	22%	20%	19%	27%	0.29	0.27	1.56
A46	Rectangle	60%	3	3	12	3	N/A	N/A	0%	30%	15%	23%	22%	19%	0.29	0.27	1.56
A51	Rectangle	57%	3	3	12	3	N/A	N/A	0%	32%	16%	22%	22%	20%	0.29	0.27	1.56
A52	Rectangle	27%	3	3	12	3	N/A	N/A	0%	55%	28%	17%	16%	35%	0.29	0.27	1.56
A53	Rectangle	22%	3	3	12	3	N/A	N/A	0%	59%	30%	16%	15%	38%	0.29	0.27	1.56
A54	Rectangle	87%	3	3	12	3	N/A	N/A	0%	10%	5%	28%	27%	6%	0.29	0.27	1.56
A55	Rectangle	69%	3	3	12	3	N/A	N/A	0%	23%	12%	24%	24%	15%	0.29	0.27	1.56
A56	Rectangle	61%	3	3	12	3	N/A	N/A	0%	29%	15%	23%	23%	19%	0.29	0.27	1.56
A111	Rectangle	46%	3	3	12	3	N/A	N/A	0%	41%	21%	20%	20%	26%	0.29	0.27	1.56
A112	Rectangle	23%	3	3	12	3	N/A	N/A	0%	58%	29%	16%	15%	37%	0.29	0.27	1.56
A113	Rectangle	23%	3	3	12	3	N/A	N/A	0%	58%	29%	16%	15%	37%	0.29	0.27	1.56
A114	Rectangle	23%	3	3	12	3	N/A	N/A	0%	58%	29%	16%	15%	37%	0.29	0.27	1.56
A115	Rectangle	11%	3	3	12	3	N/A	N/A	0%	66%	34%	14%	13%	42%	0.29	0.27	1.56
A116	Rectangle	34%	3	3	12	3	N/A	N/A	0%	49%	25%	18%	18%	31%	0.29	0.27	1.56
A121	Rectangle	36%	3	3	12	3	N/A	N/A	0%	48%	24%	18%	18%	31%	0.29	0.27	1.56
A122	Rectangle	15%	3	3	12	3	N/A	N/A	0%	64%	32%	15%	14%	41%	0.29	0.27	1.56
A123	Rectangle	20%	3	3	12	3	N/A	N/A	0%	60%	30%	16%	15%	38%	0.29	0.27	1.56
A124	Rectangle	36%	3	3	12	3	N/A	N/A	0%	48%	24%	18%	18%	31%	0.29	0.27	1.56
A125	Rectangle	25%	3	3	12	3	N/A	N/A	0%	56%	28%	17%	16%	36%	0.29	0.27	1.56
A126	Rectangle	18%	3	3	12	3	N/A	N/A	0%	62%	31%	15%	14%	39%	0.29	0.27	1.56
A127	Rectangle	18%	3	3	12	3	N/A	N/A	0%	62%	31%	15%	14%	39%	0.29	0.27	1.56
A128	Rectangle	8%	3	3	12	3	N/A	N/A	0%	69%	35%	13%	12%	44%	0.29	0.27	1.56
B1	Rectangle-Half S	87%	3	3	12	3	N/A	N/A	0%	9%	5%	28%	28%	6%	0.29	0.27	1.56
B2	Rectangle-Half S	58%	3	3	12	3	N/A	N/A	0%	31%	16%	22%	22%	20%	0.29	0.27	1.56
B3	Rectangle-Half S	58%	3	3	12	3	N/A	N/A	0%	31%	16%	22%	22%	20%	0.29	0.27	1.56
B4	Rectangle-Half S	29%	3	3	12	3	N/A	N/A	0%	53%	27%	17%	17%	34%	0.29	0.27	1.56
B5	Rectangle-Half S	29%	3	3	12	3	N/A	N/A	0%	53%	27%	17%	17%	34%	0.29	0.27	1.56
B6	Rectangle-Half S	15%	3	3	12	3	N/A	N/A	0%	64%	32%	15%	14%	41%	0.29	0.27	1.56
B7	Rectangle-Half S	29%	3	3	12	3	N/A	N/A	0%	53%	27%	17%	17%	34%	0.29	0.27	1.56
B8	Rectangle-Half S	44%	3	3	12	3	N/A	N/A	0%	42%	21%	20%	19%	27%	0.29	0.27	1.56
B21	Rectangle-Half S	73%	3	3	12	3	N/A	N/A	0%	20%	10%	25%	25%	13%	0.29	0.27	1.56
B22	Rectangle-Half S	44%	3	3	12	3	N/A	N/A	0%	42%	21%	20%	19%	27%	0.29	0.27	1.56
B23	Rectangle-Half S	15%	3	3	12	3	N/A	N/A	0%	64%	32%	15%	14%	41%	0.29	0.27	1.56
B24	Rectangle-Half S	58%	3	3	12	3	N/A	N/A	0%	31%	16%	22%	22%	20%	0.29	0.27	1.56
B25	Rectangle-Half S	29%	3	3	12	3	N/A	N/A	0%	53%	27%	17%	17%	34%	0.29	0.27	1.56
B26	Rectangle-Half S	44%	3	3	12	3	N/A	N/A	0%	42%	21%	20%	19%	27%	0.29	0.27	1.56
B31	Rectangle-Half S	39%	3	3	12	3	N/A	N/A	0%	46%	23%	19%	18%	29%	0.29	0.27	1.56
B32	Rectangle-Half S	19%	3	3	12	3	N/A	N/A	0%	60%	31%	15%	15%	39%	0.29	0.27	1.56
B33	Rectangle-Half S	39%	3	3	12	3	N/A	N/A	0%	46%	23%	19%	18%	29%	0.29	0.27	1.56
B34	Rectangle-Half S	19%	3	3	12	3	N/A	N/A	0%	60%	31%	15%	15%	39%	0.29	0.27	1.56
B35	Rectangle-Half S	10%	3	3	12	3	N/A	N/A	0%	68%	34%	14%	13%	43%	0.29	0.27	1.56
B36	Rectangle-Half S	32%	3	3	12	3	N/A	N/A	0%	51%	26%	18%	17%	33%	0.29	0.27	1.56
C11	Circle	60%	3	3	12	3	N/A	N/A	0%	30%	15%	23%	22%	19%	0.29	0.27	1.56
C12	Circle	40%	3	3	12	3	N/A	N/A	0%	45%	23%	19%	19%	29%	0.29	0.27	1.56
C13	Circle	20%	3	3	12	3	N/A	N/A	0%	60%	30%	16%	15%	38%	0.29	0.27	1.56
C21	Circle	78%	3	3	12	3	N/A	N/A	0%	16%	8%	26%	26%	10%	0.29	0.27	1.56
C22	Circle	79%	3	3	12	3	N/A	N/A	0%	16%	8%	26%	26%	10%	0.29	0.27	1.56
C23	Circle	42%	3	3	12	3	N/A	N/A	0%	43%	22%	20%	19%	28%	0.29	0.27	1.56
C24	Circle	38%	3	3	12	3	N/A	N/A	0%	46%	23%	19%	18%	30%	0.29	0.27	1.56
C25	Circle	65%	3	3	12	3	N/A	N/A	0%	26%	13%	24%	23%	17%	0.29	0.27	1.56
C31	Circle	70%	3	3	12	3	N/A	N/A	0%	22%	11%	25%	24%	14%	0.29	0.27	1.56
C32	Circle	5%	3	3	12	3	N/A	N/A	0%	32%	16%	22%	22%	21%	0.29	0.27	1.56
C33	Circle	35%	3	3	12	3	N/A	N/A	0%	49%	25%	18%	18%	31%	0.29	0.27	1.56
C34	Circle	63%	3	3	12	3	N/A	N/A	0%	28%	14%	23%	23%	18%	0.29	0.27	1.56
C35	Circle	40%	3	3	12	3	N/A	N/A	0%	45%	23%	19%	19%	29%	0.29	0.27	1.56
C36	Circle	20%	3	3	12	3	N/A	N/A	0%	60%	30%	16%	15%	38%	0.29	0.27	1.56
C41	Circle	52%	3	3	12	3	N/A	N/A	0%	36%	18%	21%	21%	23%	0.29	0.27	1.56
C42	Circle	34%	3	3	12	3	N/A	N/A	0%	49%	25%	18%	18%	32%	0.29	0.27	1.56
C43	Circle	44%	3	3	12	3	N/A	N/A	0%	42%	21%	20%	19%	27%	0.29	0.27	1.56
C51	Circle	54%	3	3	12	3	N/A	N/A	0%	35%	18%	22%	21%	22%	0.29	0.27	1.56
C52	Circle	44%	3	3	12	3	N/A	N/A	0%	42%	21%	20%	19%	27%	0.29	0.27	1.56
C53	Circle	46%	3	3	12	3	N/A	N/A	0%	41%	21%	20%	20%	26%	0.29	0.27	1.56
C54	Circle	49%	3	3	12	3	N/A	N/A	0%	38%	19%	21%	20%	25%	0.29	0.27	1.56
C55	Circle	36%	3	3	12	3	N/A	N/A	0%	48%	24%	18%	18%	31%	0.29	0.27	1.56
C14	Triangle	51%	3	3	12	3	N/A	N/A	0%	37%	19%	21%	21%	24%	0.29	0.27	1.56
C15	Triangle	36%	3	3	12	3	N/A	N/A	0%	48%	24%	18%	18%	31%	0.29	0.27	1.56
C16	Triangle	31%	3	3	12	3	N/A	N/A	0%	52%	26%	18%	17%	33%	0.29	0.27	1.56
C61	Triangle	65%	3	3	12	3	N/A	N/A	0%	26%	13%						

LLSLLE3

Panel Layers LowIron-LowIron-Spacer-LowLowIron			Layers						UV %	Visible Light Transmittance	Total Solar Transmittance	Visible Reflectance		Solar Heat Gain Coefficient	U-Value (BTU/hrft2F)		Light to Solar Gain
Panel Type	Shape	Coil Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime	
C74	Triangle	47%	3	3	12	3	N/A	N/A	0%	40%	20%	21%	20%	25%	0.29	0.27	1.56
C75	Triangle	37%	3	3	12	3	N/A	N/A	0%	47%	24%	19%	18%	30%	0.29	0.27	1.56
C76	Triangle	41%	3	3	12	3	N/A	N/A	0%	44%	22%	19%	19%	28%	0.29	0.27	1.56
C17	Hexagon	48%	3	3	12	3	N/A	N/A	0%	39%	20%	21%	20%	25%	0.29	0.27	1.56
C18	Hexagon	32%	3	3	12	3	N/A	N/A	0%	51%	26%	18%	17%	33%	0.29	0.27	1.56
C19	Hexagon	16%	3	3	12	3	N/A	N/A	0%	63%	32%	15%	14%	40%	0.29	0.27	1.56
C81	Hexagon	68%	3	3	12	3	N/A	N/A	0%	24%	12%	24%	24%	15%	0.29	0.27	1.56
C82	Hexagon	36%	3	3	12	3	N/A	N/A	0%	48%	24%	19%	18%	31%	0.29	0.27	1.56
C83	Hexagon	36%	3	3	12	3	N/A	N/A	0%	48%	24%	19%	18%	31%	0.29	0.27	1.56
C84	Hexagon	52%	3	3	12	3	N/A	N/A	0%	36%	18%	21%	21%	23%	0.29	0.27	1.56
C85	Hexagon	22%	3	3	12	3	N/A	N/A	0%	59%	30%	16%	15%	38%	0.29	0.27	1.56
C91	Hexagon	69%	3	3	12	3	N/A	N/A	0%	23%	12%	24%	24%	15%	0.29	0.27	1.56
C92	Hexagon	53%	3	3	12	3	N/A	N/A	0%	35%	18%	22%	21%	22%	0.29	0.27	1.56
C93	Hexagon	37%	3	3	12	3	N/A	N/A	0%	47%	24%	19%	18%	30%	0.29	0.27	1.56
C94	Hexagon	10%	3	3	12	3	N/A	N/A	0%	68%	34%	14%	13%	43%	0.29	0.27	1.56
C95	Hexagon	32%	3	3	12	3	N/A	N/A	0%	51%	26%	18%	17%	33%	0.29	0.27	1.56
C96	Hexagon	47%	3	3	12	3	N/A	N/A	0%	40%	20%	21%	20%	25%	0.29	0.27	1.56
C101	Parallelogram	63%	3	3	12	3	N/A	N/A	0%	28%	14%	23%	23%	18%	0.29	0.27	1.56
C102	Parallelogram	30%	3	3	12	3	N/A	N/A	0%	53%	27%	17%	17%	34%	0.29	0.27	1.56
C103	Parallelogram	37%	3	3	12	3	N/A	N/A	0%	48%	24%	19%	18%	30%	0.29	0.27	1.56
C104	Parallelogram	32%	3	3	12	3	N/A	N/A	0%	51%	26%	18%	17%	33%	0.29	0.27	1.56
C105	Parallelogram	23%	3	3	12	3	N/A	N/A	0%	58%	29%	16%	15%	37%	0.29	0.27	1.56
C106	Parallelogram	50%	3	3	12	3	N/A	N/A	0%	38%	19%	21%	20%	24%	0.29	0.27	1.56
C111	Parallelogram	53%	3	3	12	3	N/A	N/A	0%	35%	18%	22%	21%	22%	0.29	0.27	1.56
C112	Parallelogram	40%	3	3	12	3	N/A	N/A	0%	45%	23%	19%	19%	29%	0.29	0.27	1.56
C113	Parallelogram	43%	3	3	12	3	N/A	N/A	0%	43%	22%	20%	19%	27%	0.29	0.27	1.56
C114	Parallelogram	27%	3	3	12	3	N/A	N/A	0%	55%	28%	17%	16%	35%	0.29	0.27	1.56
C115	Parallelogram	40%	3	3	12	3	N/A	N/A	0%	45%	23%	19%	19%	29%	0.29	0.27	1.56
C116	Parallelogram	27%	3	3	12	3	N/A	N/A	0%	55%	28%	17%	16%	35%	0.29	0.27	1.56

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● Panel Layers LowIron-LowIron-Spacer-LowELowIron			● Layers					● UV %	● Visible Light Transmittance	● Total Solar Transmittance	● Visible Reflectance		● Solar Heat Gain Coefficient	● U-Value (BTU/hrft2F)		● Light to Solar Gain	
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness			Exterior	Interior		Winter Nighttime	Summer Daytime		
Non-Active	Any Shape	0%	4	4	12	4	N/A	N/A	0%	75%	38%	12%	11%	48%	0.28	0.28	1.56
A1	Rectangle	92%	4	4	12	4	N/A	N/A	0%	29%	3%	29%	28%	4%	0.28	0.28	1.56
A2	Rectangle	61%	4	4	12	4	N/A	N/A	0%	29%	15%	23%	23%	19%	0.28	0.28	1.56
A3	Rectangle	61%	4	4	12	4	N/A	N/A	0%	29%	15%	23%	23%	19%	0.28	0.28	1.56
A4	Rectangle	31%	4	4	12	4	N/A	N/A	0%	52%	26%	18%	17%	33%	0.28	0.28	1.56
A5	Rectangle	31%	4	4	12	4	N/A	N/A	0%	52%	26%	18%	17%	33%	0.28	0.28	1.56
A6	Rectangle	15%	4	4	12	4	N/A	N/A	0%	64%	32%	15%	14%	41%	0.28	0.28	1.56
A7	Rectangle	31%	4	4	12	4	N/A	N/A	0%	52%	26%	18%	17%	33%	0.28	0.28	1.56
A8	Rectangle	46%	4	4	12	4	N/A	N/A	0%	41%	21%	20%	20%	26%	0.28	0.28	1.56
A21	Rectangle	76%	4	4	12	4	N/A	N/A	0%	18%	9%	26%	26%	11%	0.28	0.28	1.56
A22	Rectangle	38%	4	4	12	4	N/A	N/A	0%	46%	23%	19%	18%	30%	0.28	0.28	1.56
A23	Rectangle	15%	4	4	12	4	N/A	N/A	0%	64%	32%	15%	14%	41%	0.28	0.28	1.56
A24	Rectangle	46%	4	4	12	4	N/A	N/A	0%	41%	21%	20%	20%	26%	0.28	0.28	1.56
A25	Rectangle	31%	4	4	12	4	N/A	N/A	0%	52%	26%	18%	17%	33%	0.28	0.28	1.56
A26	Rectangle	15%	4	4	12	4	N/A	N/A	0%	64%	32%	15%	14%	41%	0.28	0.28	1.56
A27	Rectangle	23%	4	4	12	4	N/A	N/A	0%	59%	29%	16%	15%	37%	0.28	0.28	1.56
A31	Rectangle	31%	4	4	12	4	N/A	N/A	0%	52%	26%	18%	17%	33%	0.28	0.28	1.56
A32	Rectangle	20%	4	4	12	4	N/A	N/A	0%	60%	30%	16%	15%	38%	0.28	0.28	1.56
A33	Rectangle	10%	4	4	12	4	N/A	N/A	0%	67%	34%	14%	13%	43%	0.28	0.28	1.56
A34	Rectangle	5%	4	4	12	4	N/A	N/A	0%	71%	36%	13%	12%	46%	0.28	0.28	1.56
A41	Rectangle	74%	4	4	12	4	N/A	N/A	0%	20%	10%	25%	25%	13%	0.28	0.28	1.56
A42	Rectangle	47%	4	4	12	4	N/A	N/A	0%	40%	20%	20%	20%	25%	0.28	0.28	1.56
A43	Rectangle	14%	4	4	12	4	N/A	N/A	0%	64%	33%	15%	14%	41%	0.28	0.28	1.56
A44	Rectangle	10%	4	4	12	4	N/A	N/A	0%	67%	34%	14%	13%	43%	0.28	0.28	1.56
A45	Rectangle	43%	4	4	12	4	N/A	N/A	0%	43%	22%	20%	19%	27%	0.28	0.28	1.56
A46	Rectangle	60%	4	4	12	4	N/A	N/A	0%	30%	15%	23%	22%	19%	0.28	0.28	1.56
A51	Rectangle	57%	4	4	12	4	N/A	N/A	0%	32%	16%	22%	22%	20%	0.28	0.28	1.56
A52	Rectangle	27%	4	4	12	4	N/A	N/A	0%	55%	28%	17%	16%	35%	0.28	0.28	1.56
A53	Rectangle	22%	4	4	12	4	N/A	N/A	0%	59%	30%	16%	15%	38%	0.28	0.28	1.56
A54	Rectangle	87%	4	4	12	4	N/A	N/A	0%	10%	5%	28%	27%	6%	0.28	0.28	1.56
A55	Rectangle	69%	4	4	12	4	N/A	N/A	0%	23%	12%	24%	24%	15%	0.28	0.28	1.56
A56	Rectangle	61%	4	4	12	4	N/A	N/A	0%	29%	15%	23%	23%	19%	0.28	0.28	1.56
A111	Rectangle	46%	4	4	12	4	N/A	N/A	0%	41%	21%	20%	20%	26%	0.28	0.28	1.56
A112	Rectangle	23%	4	4	12	4	N/A	N/A	0%	58%	29%	16%	15%	37%	0.28	0.28	1.56
A113	Rectangle	23%	4	4	12	4	N/A	N/A	0%	58%	29%	16%	15%	37%	0.28	0.28	1.56
A114	Rectangle	23%	4	4	12	4	N/A	N/A	0%	58%	29%	16%	15%	37%	0.28	0.28	1.56
A115	Rectangle	11%	4	4	12	4	N/A	N/A	0%	66%	34%	14%	13%	42%	0.28	0.28	1.56
A116	Rectangle	34%	4	4	12	4	N/A	N/A	0%	49%	25%	18%	18%	31%	0.28	0.28	1.56
A121	Rectangle	36%	4	4	12	4	N/A	N/A	0%	48%	24%	18%	18%	31%	0.28	0.28	1.56
A122	Rectangle	15%	4	4	12	4	N/A	N/A	0%	64%	32%	15%	14%	41%	0.28	0.28	1.56
A123	Rectangle	20%	4	4	12	4	N/A	N/A	0%	60%	30%	16%	15%	38%	0.28	0.28	1.56
A124	Rectangle	36%	4	4	12	4	N/A	N/A	0%	48%	24%	18%	18%	31%	0.28	0.28	1.56
A125	Rectangle	25%	4	4	12	4	N/A	N/A	0%	56%	28%	17%	16%	36%	0.28	0.28	1.56
A126	Rectangle	18%	4	4	12	4	N/A	N/A	0%	62%	31%	15%	14%	39%	0.28	0.28	1.56
A127	Rectangle	18%	4	4	12	4	N/A	N/A	0%	62%	31%	15%	14%	39%	0.28	0.28	1.56
A128	Rectangle	8%	4	4	12	4	N/A	N/A	0%	69%	35%	13%	12%	44%	0.28	0.28	1.56
B1	Rectangle-Half S	87%	4	4	12	4	N/A	N/A	0%	9%	5%	28%	28%	6%	0.28	0.28	1.56
B2	Rectangle-Half S	58%	4	4	12	4	N/A	N/A	0%	31%	16%	22%	22%	20%	0.28	0.28	1.56
B3	Rectangle-Half S	58%	4	4	12	4	N/A	N/A	0%	31%	16%	22%	22%	20%	0.28	0.28	1.56
B4	Rectangle-Half S	29%	4	4	12	4	N/A	N/A	0%	53%	27%	17%	17%	34%	0.28	0.28	1.56
B5	Rectangle-Half S	29%	4	4	12	4	N/A	N/A	0%	53%	27%	17%	17%	34%	0.28	0.28	1.56
B6	Rectangle-Half S	15%	4	4	12	4	N/A	N/A	0%	64%	32%	15%	14%	41%	0.28	0.28	1.56
B7	Rectangle-Half S	29%	4	4	12	4	N/A	N/A	0%	53%	27%	17%	17%	34%	0.28	0.28	1.56
B8	Rectangle-Half S	44%	4	4	12	4	N/A	N/A	0%	42%	21%	20%	19%	27%	0.28	0.28	1.56
B21	Rectangle-Half S	73%	4	4	12	4	N/A	N/A	0%	20%	10%	25%	25%	15%	0.28	0.28	1.56
B22	Rectangle-Half S	44%	4	4	12	4	N/A	N/A	0%	42%	21%	20%	19%	27%	0.28	0.28	1.56
B23	Rectangle-Half S	15%	4	4	12	4	N/A	N/A	0%	64%	32%	15%	14%	41%	0.28	0.28	1.56
B24	Rectangle-Half S	58%	4	4	12	4	N/A	N/A	0%	31%	16%	22%	22%	20%	0.28	0.28	1.56
B25	Rectangle-Half S	29%	4	4	12	4	N/A	N/A	0%	53%	27%	17%	17%	34%	0.28	0.28	1.56
B26	Rectangle-Half S	44%	4	4	12	4	N/A	N/A	0%	42%	21%	20%	19%	27%	0.28	0.28	1.56
B31	Rectangle-Half S	39%	4	4	12	4	N/A	N/A	0%	46%	23%	19%	18%	29%	0.28	0.28	1.56
B32	Rectangle-Half S	19%	4	4	12	4	N/A	N/A	0%	60%	31%	15%	15%	39%	0.28	0.28	1.56
B33	Rectangle-Half S	39%	4	4	12	4	N/A	N/A	0%	46%	23%	19%	18%	29%	0.28	0.28	1.56
B34	Rectangle-Half S	19%	4	4	12	4	N/A	N/A	0%	60%	31%	15%	15%	39%	0.28	0.28	1.56
B35	Rectangle-Half S	10%	4	4	12	4	N/A	N/A	0%	68%	34%	14%	13%	43%	0.28	0.28	1.56
B36	Rectangle-Half S	32%	4	4	12	4	N/A	N/A	0%	51%	26%	18%	17%	33%	0.28	0.28	1.56
C11	Circle	60%	4	4	12	4	N/A	N/A	0%	30%	15%	23%	22%	19%	0.28	0.28	1.56
C12	Circle	40%	4	4	12	4	N/A	N/A	0%	45%	23%	19%	19%	29%	0.28	0.28	1.56
C13	Circle	20%	4	4	12	4	N/A	N/A	0%	60%	30%	16%	15%	38%	0.28	0.28	1.56
C21	Circle	78%	4	4	12	4	N/A	N/A	0%	16%	8%	26%	26%	10%	0.28	0.28	1.56
C22	Circle	79%	4	4	12	4	N/A	N/A	0%	16%	8%	26%	26%	10%	0.28	0.28	1.56
C23	Circle	42%	4	4	12	4	N/A	N/A	0%	43%	22%	20%	19%	28%	0.28	0.28	1.56
C24	Circle	38%	4	4	12	4	N/A	N/A	0%	46%	23%	19%	18%	30%	0.28	0.28	1.56
C25	Circle	65%	4	4	12	4	N/A	N/A	0%	26%	13%	24%	23%	17%	0.28	0.28	1.56
C31	Circle	70%	4	4	12	4	N/A	N/A	0%	22%	11%	25%	24%	14%	0.28	0.28	1.56
C32	Circle	57%	4	4	12	4	N/A	N/A	0%	32%	16%	22%	22%	21%	0.28	0.28	1.56
C33	Circle	35%	4	4	12	4	N/A	N/A	0%	49%	25%	18%	18%	31%	0.28	0.28	1.56
C34	Circle	63%	4	4	12	4	N/A	N/A	0%	28%	14%	23%	23%	18%	0.28	0.28	1.56
C35	Circle	40%	4	4	12	4	N/A	N/A	0%	45%	23%	19%	19%	29%	0.28	0.28	1.56
C36	Circle	20%	4	4													

LLSLLE4

Panel Layers LowIron-LowIron-Spacer-LowELowIron			Layers						UV %	Visible Light Transmittance	Total Solar Transmittance	Visible Reflectance		Solar Heat Gain Coefficient	U-Value (BTU/hrft2F)		Light to Solar Gain
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime	
C74	Triangle	47%	4	4	12	4	N/A	N/A	0%	40%	20%	21%	20%	25%	0.28	0.26	1.56
C75	Triangle	37%	4	4	12	4	N/A	N/A	0%	47%	24%	19%	18%	30%	0.28	0.26	1.56
C76	Triangle	41%	4	4	12	4	N/A	N/A	0%	44%	22%	19%	19%	28%	0.28	0.26	1.56
C17	Hexagon	48%	4	4	12	4	N/A	N/A	0%	39%	20%	21%	20%	25%	0.28	0.26	1.56
C18	Hexagon	32%	4	4	12	4	N/A	N/A	0%	51%	26%	18%	17%	33%	0.28	0.26	1.56
C19	Hexagon	16%	4	4	12	4	N/A	N/A	0%	63%	32%	15%	14%	40%	0.28	0.26	1.56
C81	Hexagon	68%	4	4	12	4	N/A	N/A	0%	24%	12%	24%	24%	15%	0.28	0.26	1.56
C82	Hexagon	36%	4	4	12	4	N/A	N/A	0%	48%	24%	19%	18%	31%	0.28	0.26	1.56
C83	Hexagon	36%	4	4	12	4	N/A	N/A	0%	48%	24%	19%	18%	31%	0.28	0.26	1.56
C84	Hexagon	52%	4	4	12	4	N/A	N/A	0%	36%	18%	21%	21%	23%	0.28	0.26	1.56
C85	Hexagon	22%	4	4	12	4	N/A	N/A	0%	59%	30%	16%	15%	38%	0.28	0.26	1.56
C91	Hexagon	69%	4	4	12	4	N/A	N/A	0%	23%	12%	24%	24%	15%	0.28	0.26	1.56
C92	Hexagon	53%	4	4	12	4	N/A	N/A	0%	35%	18%	22%	21%	22%	0.28	0.26	1.56
C93	Hexagon	37%	4	4	12	4	N/A	N/A	0%	47%	24%	19%	18%	30%	0.28	0.26	1.56
C94	Hexagon	10%	4	4	12	4	N/A	N/A	0%	68%	34%	14%	13%	43%	0.28	0.26	1.56
C95	Hexagon	32%	4	4	12	4	N/A	N/A	0%	51%	26%	18%	17%	33%	0.28	0.26	1.56
C96	Hexagon	47%	4	4	12	4	N/A	N/A	0%	40%	20%	21%	20%	25%	0.28	0.26	1.56
C101	Parallelogram	63%	4	4	12	4	N/A	N/A	0%	28%	14%	23%	23%	18%	0.28	0.26	1.56
C102	Parallelogram	30%	4	4	12	4	N/A	N/A	0%	53%	27%	17%	17%	34%	0.28	0.26	1.56
C103	Parallelogram	37%	4	4	12	4	N/A	N/A	0%	48%	24%	19%	18%	30%	0.28	0.26	1.56
C104	Parallelogram	32%	4	4	12	4	N/A	N/A	0%	51%	26%	18%	17%	33%	0.28	0.26	1.56
C105	Parallelogram	23%	4	4	12	4	N/A	N/A	0%	58%	29%	16%	15%	37%	0.28	0.26	1.56
C106	Parallelogram	50%	4	4	12	4	N/A	N/A	0%	38%	19%	21%	20%	24%	0.28	0.26	1.56
C111	Parallelogram	53%	4	4	12	4	N/A	N/A	0%	35%	18%	22%	21%	22%	0.28	0.26	1.56
C112	Parallelogram	40%	4	4	12	4	N/A	N/A	0%	45%	23%	19%	19%	29%	0.28	0.26	1.56
C113	Parallelogram	43%	4	4	12	4	N/A	N/A	0%	43%	22%	20%	19%	27%	0.28	0.26	1.56
C114	Parallelogram	27%	4	4	12	4	N/A	N/A	0%	55%	28%	17%	16%	35%	0.28	0.26	1.56
C115	Parallelogram	40%	4	4	12	4	N/A	N/A	0%	45%	23%	19%	19%	29%	0.28	0.26	1.56
C116	Parallelogram	27%	4	4	12	4	N/A	N/A	0%	55%	28%	17%	16%	35%	0.28	0.26	1.56

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Panel Layers LowIron-LowIron-Spacer-LowE/LowIron			Layers						UV %	Visible Light Transmittance	Total Solar Transmittance	Visible Reflectance		Solar Heat Gain Coefficient	U-Value (BTU/hrft ²)		Light to Solar Gain
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime	
Non-Active	Any Shape	0%	6	6	12	6	N/A	N/A	0%	74%	38%	12%	11%	48%	0.24	0.22	1.54
A1	Rectangle	92%	6	6	12	6	N/A	N/A	0%	6%	3%	29%	28%	4%	0.24	0.22	1.54
A2	Rectangle	61%	6	6	12	6	N/A	N/A	0%	29%	15%	23%	23%	19%	0.24	0.22	1.54
A3	Rectangle	61%	6	6	12	6	N/A	N/A	0%	29%	15%	23%	23%	19%	0.24	0.22	1.54
A4	Rectangle	31%	6	6	12	6	N/A	N/A	0%	51%	26%	18%	17%	33%	0.24	0.22	1.54
A5	Rectangle	31%	6	6	12	6	N/A	N/A	0%	51%	26%	18%	17%	33%	0.24	0.22	1.54
A6	Rectangle	15%	6	6	12	6	N/A	N/A	0%	63%	32%	15%	14%	41%	0.24	0.22	1.54
A7	Rectangle	31%	6	6	12	6	N/A	N/A	0%	51%	26%	18%	17%	33%	0.24	0.22	1.54
A8	Rectangle	46%	6	6	12	6	N/A	N/A	0%	40%	21%	20%	20%	26%	0.24	0.22	1.54
A21	Rectangle	76%	6	6	12	6	N/A	N/A	0%	17%	9%	26%	26%	11%	0.24	0.22	1.54
A22	Rectangle	38%	6	6	12	6	N/A	N/A	0%	46%	23%	19%	18%	30%	0.24	0.22	1.54
A23	Rectangle	15%	6	6	12	6	N/A	N/A	0%	63%	32%	15%	14%	41%	0.24	0.22	1.54
A24	Rectangle	46%	6	6	12	6	N/A	N/A	0%	40%	21%	20%	20%	26%	0.24	0.22	1.54
A25	Rectangle	31%	6	6	12	6	N/A	N/A	0%	51%	26%	18%	17%	33%	0.24	0.22	1.54
A26	Rectangle	15%	6	6	12	6	N/A	N/A	0%	63%	32%	15%	14%	41%	0.24	0.22	1.54
A27	Rectangle	23%	6	6	12	6	N/A	N/A	0%	57%	29%	16%	15%	37%	0.24	0.22	1.54
A31	Rectangle	31%	6	6	12	6	N/A	N/A	0%	51%	26%	18%	17%	33%	0.24	0.22	1.54
A32	Rectangle	20%	6	6	12	6	N/A	N/A	0%	59%	30%	16%	15%	38%	0.24	0.22	1.54
A33	Rectangle	10%	6	6	12	6	N/A	N/A	0%	65%	34%	14%	13%	43%	0.24	0.22	1.54
A34	Rectangle	5%	6	6	12	6	N/A	N/A	0%	70%	36%	13%	12%	46%	0.24	0.22	1.54
A41	Rectangle	7%	6	6	12	6	N/A	N/A	0%	19%	10%	25%	25%	15%	0.24	0.22	1.54
A42	Rectangle	47%	6	6	12	6	N/A	N/A	0%	39%	20%	20%	20%	25%	0.24	0.22	1.54
A43	Rectangle	14%	6	6	12	6	N/A	N/A	0%	64%	33%	15%	14%	41%	0.24	0.22	1.54
A44	Rectangle	10%	6	6	12	6	N/A	N/A	0%	66%	34%	14%	13%	43%	0.24	0.22	1.54
A45	Rectangle	43%	6	6	12	6	N/A	N/A	0%	42%	22%	20%	19%	27%	0.24	0.22	1.54
A46	Rectangle	60%	6	6	12	6	N/A	N/A	0%	30%	15%	23%	22%	19%	0.24	0.22	1.54
A51	Rectangle	57%	6	6	12	6	N/A	N/A	0%	32%	16%	22%	22%	20%	0.24	0.22	1.54
A52	Rectangle	27%	6	6	12	6	N/A	N/A	0%	54%	28%	17%	16%	35%	0.24	0.22	1.54
A53	Rectangle	22%	6	6	12	6	N/A	N/A	0%	58%	30%	16%	15%	38%	0.24	0.22	1.54
A54	Rectangle	87%	6	6	12	6	N/A	N/A	0%	10%	5%	28%	27%	6%	0.24	0.22	1.54
A55	Rectangle	69%	6	6	12	6	N/A	N/A	0%	23%	12%	24%	24%	15%	0.24	0.22	1.54
A56	Rectangle	61%	6	6	12	6	N/A	N/A	0%	29%	15%	23%	23%	19%	0.24	0.22	1.54
A111	Rectangle	46%	6	6	12	6	N/A	N/A	0%	40%	21%	20%	20%	26%	0.24	0.22	1.54
A112	Rectangle	23%	6	6	12	6	N/A	N/A	0%	57%	29%	16%	15%	37%	0.24	0.22	1.54
A113	Rectangle	23%	6	6	12	6	N/A	N/A	0%	57%	29%	16%	15%	37%	0.24	0.22	1.54
A114	Rectangle	23%	6	6	12	6	N/A	N/A	0%	57%	29%	16%	15%	37%	0.24	0.22	1.54
A115	Rectangle	11%	6	6	12	6	N/A	N/A	0%	66%	34%	14%	13%	42%	0.24	0.22	1.54
A116	Rectangle	34%	6	6	12	6	N/A	N/A	0%	49%	25%	18%	18%	31%	0.24	0.22	1.54
A121	Rectangle	36%	6	6	12	6	N/A	N/A	0%	48%	24%	18%	18%	31%	0.24	0.22	1.54
A122	Rectangle	15%	6	6	12	6	N/A	N/A	0%	63%	32%	15%	14%	41%	0.24	0.22	1.54
A123	Rectangle	20%	6	6	12	6	N/A	N/A	0%	59%	30%	16%	15%	38%	0.24	0.22	1.54
A124	Rectangle	36%	6	6	12	6	N/A	N/A	0%	48%	24%	18%	18%	31%	0.24	0.22	1.54
A125	Rectangle	25%	6	6	12	6	N/A	N/A	0%	55%	28%	17%	16%	36%	0.24	0.22	1.54
A126	Rectangle	18%	6	6	12	6	N/A	N/A	0%	61%	31%	15%	14%	39%	0.24	0.22	1.54
A127	Rectangle	18%	6	6	12	6	N/A	N/A	0%	61%	31%	15%	14%	39%	0.24	0.22	1.54
A128	Rectangle	8%	6	6	12	6	N/A	N/A	0%	68%	35%	13%	12%	44%	0.24	0.22	1.54
B1	Rectangle-Half S	87%	6	6	12	6	N/A	N/A	0%	9%	5%	28%	28%	6%	0.24	0.22	1.54
B2	Rectangle-Half S	58%	6	6	12	6	N/A	N/A	0%	31%	16%	22%	22%	20%	0.24	0.22	1.54
B3	Rectangle-Half S	58%	6	6	12	6	N/A	N/A	0%	31%	16%	22%	22%	20%	0.24	0.22	1.54
B4	Rectangle-Half S	29%	6	6	12	6	N/A	N/A	0%	52%	27%	17%	17%	34%	0.24	0.22	1.54
B5	Rectangle-Half S	29%	6	6	12	6	N/A	N/A	0%	52%	27%	17%	17%	34%	0.24	0.22	1.54
B6	Rectangle-Half S	15%	6	6	12	6	N/A	N/A	0%	63%	32%	15%	14%	41%	0.24	0.22	1.54
B7	Rectangle-Half S	29%	6	6	12	6	N/A	N/A	0%	52%	27%	17%	17%	34%	0.24	0.22	1.54
B8	Rectangle-Half S	44%	6	6	12	6	N/A	N/A	0%	42%	21%	20%	19%	27%	0.24	0.22	1.54
B21	Rectangle-Half S	73%	6	6	12	6	N/A	N/A	0%	20%	10%	25%	25%	17%	0.24	0.22	1.54
B22	Rectangle-Half S	44%	6	6	12	6	N/A	N/A	0%	42%	21%	20%	19%	27%	0.24	0.22	1.54
B23	Rectangle-Half S	15%	6	6	12	6	N/A	N/A	0%	63%	32%	15%	14%	41%	0.24	0.22	1.54
B24	Rectangle-Half S	58%	6	6	12	6	N/A	N/A	0%	31%	16%	22%	22%	20%	0.24	0.22	1.54
B25	Rectangle-Half S	29%	6	6	12	6	N/A	N/A	0%	52%	27%	17%	17%	34%	0.24	0.22	1.54
B26	Rectangle-Half S	44%	6	6	12	6	N/A	N/A	0%	42%	21%	20%	19%	27%	0.24	0.22	1.54
B31	Rectangle-Half S	39%	6	6	12	6	N/A	N/A	0%	45%	23%	19%	18%	29%	0.24	0.22	1.54
B32	Rectangle-Half S	19%	6	6	12	6	N/A	N/A	0%	60%	31%	15%	15%	39%	0.24	0.22	1.54
B33	Rectangle-Half S	39%	6	6	12	6	N/A	N/A	0%	45%	23%	19%	18%	29%	0.24	0.22	1.54
B34	Rectangle-Half S	19%	6	6	12	6	N/A	N/A	0%	60%	31%	15%	15%	39%	0.24	0.22	1.54
B35	Rectangle-Half S	10%	6	6	12	6	N/A	N/A	0%	67%	34%	14%	13%	43%	0.24	0.22	1.54
B36	Rectangle-Half S	32%	6	6	12	6	N/A	N/A	0%	51%	26%	18%	17%	33%	0.24	0.22	1.54
C11	Circle	60%	6	6	12	6	N/A	N/A	0%	30%	15%	23%	22%	19%	0.24	0.22	1.54
C12	Circle	40%	6	6	12	6	N/A	N/A	0%	44%	23%	19%	19%	29%	0.24	0.22	1.54
C13	Circle	20%	6	6	12	6	N/A	N/A	0%	59%	30%	16%	15%	38%	0.24	0.22	1.54
C21	Circle	78%	6	6	12	6	N/A	N/A	0%	16%	8%	26%	26%	10%	0.24	0.22	1.54
C22	Circle	79%	6	6	12	6	N/A	N/A	0%	15%	8%	26%	26%	10%	0.24	0.22	1.54
C23	Circle	42%	6	6	12	6	N/A	N/A	0%	43%	22%	20%	19%	28%	0.24	0.22	1.54
C24	Circle	38%	6	6	12	6	N/A	N/A	0%	46%	23%	19%	18%	30%	0.24	0.22	1.54
C25	Circle	65%	6	6	12	6	N/A	N/A	0%	26%	13%	24%	23%	17%	0.24	0.22	1.54
C31	Circle	70%	6	6	12	6	N/A	N/A	0%	22%	11%	25%	24%	14%	0.24	0.22	1.54
C32	Circle	57%	6	6	12	6	N/A	N/A	0%	32%	16%	22%	22%	21%	0.24	0.22	1.54
C33	Circle	35%	6	6	12	6	N/A	N/A	0%	48%	25%	18%	18%	31%	0.24	0.22	1.54
C34	Circle	63%	6	6	12	6	N/A	N/A	0%	28%	14%	23%	23%	18%	0.24	0.22	1.54
C35	Circle	40%	6	6	12	6	N/A	N/A	0%	44%	23%	19%	19%	29%	0.24	0.22	1.54
C36	Circle	20%	6	6	12	6	N/A	N/A	0%	59%	30%	16%	15%	38%	0.24	0.22	1.54
C41	Circle	52%	6	6	12	6	N/A	N/A	0%	35%	18%	21%	21%	23%	0.24	0.22	1.54
C42	Circle	34%	6	6	12	6	N/A	N/A	0%	49%	25%	18%	18%	32%	0.24	0.22	1.54
C43	Circle	44%	6	6	12	6	N/A	N/A	0%	41%	21%	20%	19%	27%	0.24	0.22	1.54
C51	Circle	54%	6	6	12	6	N/A	N/A	0%	34%	18%	22%	21%	22%	0.24	0.22	1.54
C52	Circle	44%	6	6	12	6	N/A	N/A	0%	41%	21%	20%	19%	27%	0.24	0.22	1.54
C53	Circle	46%	6	6	12	6	N/A	N/A	0%	40%	21%	20%	20%	26%	0.24	0.22	1.54
C54	Circle	49%	6	6	12	6	N/A	N/A	0%	38%	19%	21%	20%	25%	0.24	0.22	1.54
C55	Circle	36%	6	6	12	6	N/A	N/A	0%	47%	24%	18%	18%	31%	0.24	0.22	1.54
C14	Triangle	51%	6	6	12	6	N/A	N/A	0%	36%	19%	21%	21%	24%	0.24	0.22	1.54
C15	Triangle	36%	6	6	12	6	N/A	N/A	0%	46%	24%	18%	18%	31%	0.24	0.22	1.54
C16	Triangle	31%	6	6	12	6	N/A	N/A	0%	51%	26%	18%	17%	33%	0.24	0.22	1.54
C61	Triangle	65%	6	6	12	6	N/A	N/A	0%</								

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Panel Layers LowIron-LowIron-Spacer-LowLowIron			Layers						UV %	Visible Light Transmittance	Total Solar Transmittance	Visible Reflectance		Solar Heat Gain Coefficient	U-Value (BTU/hrft2F)		Light to Solar Gain
Panel Type	Shape	Coil Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime	
C74	Triangle	47%	6	6	12	6	N/A	N/A	0%	39%	20%	21%	20%	25%	0.24	0.22	1.54
C75	Triangle	37%	6	6	12	6	N/A	N/A	0%	47%	24%	19%	18%	30%	0.24	0.22	1.54
C76	Triangle	41%	6	6	12	6	N/A	N/A	0%	43%	22%	19%	19%	28%	0.24	0.22	1.54
C17	Hexagon	48%	6	6	12	6	N/A	N/A	0%	38%	20%	21%	20%	25%	0.24	0.22	1.54
C18	Hexagon	32%	6	6	12	6	N/A	N/A	0%	50%	26%	18%	17%	33%	0.24	0.22	1.54
C19	Hexagon	16%	6	6	12	6	N/A	N/A	0%	62%	32%	15%	14%	40%	0.24	0.22	1.54
C81	Hexagon	68%	6	6	12	6	N/A	N/A	0%	24%	12%	24%	24%	15%	0.24	0.22	1.54
C82	Hexagon	36%	6	6	12	6	N/A	N/A	0%	47%	24%	19%	18%	31%	0.24	0.22	1.54
C83	Hexagon	36%	6	6	12	6	N/A	N/A	0%	47%	24%	19%	18%	31%	0.24	0.22	1.54
C84	Hexagon	52%	6	6	12	6	N/A	N/A	0%	35%	18%	21%	21%	23%	0.24	0.22	1.54
C85	Hexagon	22%	6	6	12	6	N/A	N/A	0%	58%	30%	16%	15%	38%	0.24	0.22	1.54
C91	Hexagon	69%	6	6	12	6	N/A	N/A	0%	23%	12%	24%	24%	15%	0.24	0.22	1.54
C92	Hexagon	53%	6	6	12	6	N/A	N/A	0%	35%	18%	22%	21%	22%	0.24	0.22	1.54
C93	Hexagon	37%	6	6	12	6	N/A	N/A	0%	46%	24%	19%	18%	30%	0.24	0.22	1.54
C94	Hexagon	10%	6	6	12	6	N/A	N/A	0%	67%	34%	14%	13%	43%	0.24	0.22	1.54
C95	Hexagon	32%	6	6	12	6	N/A	N/A	0%	51%	26%	18%	17%	33%	0.24	0.22	1.54
C96	Hexagon	47%	6	6	12	6	N/A	N/A	0%	39%	20%	21%	20%	25%	0.24	0.22	1.54
C101	Parallelogram	63%	6	6	12	6	N/A	N/A	0%	27%	14%	23%	23%	18%	0.24	0.22	1.54
C102	Parallelogram	30%	6	6	12	6	N/A	N/A	0%	52%	27%	17%	17%	34%	0.24	0.22	1.54
C103	Parallelogram	37%	6	6	12	6	N/A	N/A	0%	47%	24%	19%	18%	30%	0.24	0.22	1.54
C104	Parallelogram	32%	6	6	12	6	N/A	N/A	0%	51%	26%	18%	17%	33%	0.24	0.22	1.54
C105	Parallelogram	23%	6	6	12	6	N/A	N/A	0%	57%	29%	16%	15%	37%	0.24	0.22	1.54
C106	Parallelogram	50%	6	6	12	6	N/A	N/A	0%	37%	19%	21%	20%	24%	0.24	0.22	1.54
C111	Parallelogram	53%	6	6	12	6	N/A	N/A	0%	35%	18%	22%	21%	22%	0.24	0.22	1.54
C112	Parallelogram	40%	6	6	12	6	N/A	N/A	0%	44%	23%	19%	19%	29%	0.24	0.22	1.54
C113	Parallelogram	43%	6	6	12	6	N/A	N/A	0%	42%	22%	20%	19%	27%	0.24	0.22	1.54
C114	Parallelogram	27%	6	6	12	6	N/A	N/A	0%	54%	28%	17%	16%	35%	0.24	0.22	1.54
C115	Parallelogram	40%	6	6	12	6	N/A	N/A	0%	44%	23%	19%	19%	29%	0.24	0.22	1.54
C116	Parallelogram	27%	6	6	12	6	N/A	N/A	0%	54%	28%	17%	16%	35%	0.24	0.22	1.54

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Panel Layers LowIron-LowIron-Spacer-Clear-Spacer-Clear			Layers						UV %	Visible Light Transmittance	Total Solar Transmittance	Visible Reflectance		Solar Heat Gain Coefficient	U-Value (BTU/hrft2F)		Light to Solar Gain
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime	
Non-Active	Any Shape	0%	3	3	12	3	12	3	0%	75%	59%	21%	21%	68%	0.29	0.32	1.10
A1	Rectangle	92%	3	3	12	3	12	3	0%	6%	29%	29%	29%	6%	0.29	0.32	1.10
A2	Rectangle	61%	3	3	12	3	12	3	0%	29%	23%	27%	27%	26%	0.29	0.32	1.10
A3	Rectangle	61%	3	3	12	3	12	3	0%	29%	23%	27%	27%	26%	0.29	0.32	1.10
A4	Rectangle	31%	3	3	12	3	12	3	0%	52%	41%	24%	24%	47%	0.29	0.32	1.10
A5	Rectangle	31%	3	3	12	3	12	3	0%	52%	41%	24%	24%	47%	0.29	0.32	1.10
A6	Rectangle	15%	3	3	12	3	12	3	0%	64%	50%	22%	22%	58%	0.29	0.32	1.10
A7	Rectangle	31%	3	3	12	3	12	3	0%	52%	41%	24%	24%	47%	0.29	0.32	1.10
A8	Rectangle	46%	3	3	12	3	12	3	0%	41%	32%	25%	25%	37%	0.29	0.32	1.10
A21	Rectangle	76%	3	3	12	3	12	3	0%	18%	14%	28%	28%	16%	0.29	0.32	1.10
A22	Rectangle	38%	3	3	12	3	12	3	0%	46%	36%	24%	24%	42%	0.29	0.32	1.10
A23	Rectangle	15%	3	3	12	3	12	3	0%	64%	50%	22%	22%	58%	0.29	0.32	1.10
A24	Rectangle	46%	3	3	12	3	12	3	0%	41%	32%	25%	25%	37%	0.29	0.32	1.10
A25	Rectangle	31%	3	3	12	3	12	3	0%	52%	41%	24%	24%	47%	0.29	0.32	1.10
A26	Rectangle	15%	3	3	12	3	12	3	0%	64%	50%	22%	22%	58%	0.29	0.32	1.10
A27	Rectangle	23%	3	3	12	3	12	3	0%	58%	45%	23%	23%	52%	0.29	0.32	1.10
A31	Rectangle	31%	3	3	12	3	12	3	0%	52%	41%	24%	24%	47%	0.29	0.32	1.10
A32	Rectangle	20%	3	3	12	3	12	3	0%	60%	47%	23%	23%	54%	0.29	0.32	1.10
A33	Rectangle	10%	3	3	12	3	12	3	0%	67%	53%	22%	22%	61%	0.29	0.32	1.10
A34	Rectangle	5%	3	3	12	3	12	3	0%	71%	56%	21%	21%	65%	0.29	0.32	1.10
A41	Rectangle	74%	3	3	12	3	12	3	0%	20%	15%	28%	28%	16%	0.29	0.32	1.10
A42	Rectangle	47%	3	3	12	3	12	3	0%	40%	31%	25%	25%	36%	0.29	0.32	1.10
A43	Rectangle	14%	3	3	12	3	12	3	0%	64%	51%	22%	22%	58%	0.29	0.32	1.10
A44	Rectangle	10%	3	3	12	3	12	3	0%	67%	53%	22%	22%	61%	0.29	0.32	1.10
A45	Rectangle	43%	3	3	12	3	12	3	0%	43%	33%	25%	25%	39%	0.29	0.32	1.10
A46	Rectangle	60%	3	3	12	3	12	3	0%	30%	24%	26%	26%	27%	0.29	0.32	1.10
A51	Rectangle	57%	3	3	12	3	12	3	0%	32%	25%	26%	26%	29%	0.29	0.32	1.10
A52	Rectangle	27%	3	3	12	3	12	3	0%	55%	43%	23%	23%	50%	0.29	0.32	1.10
A53	Rectangle	22%	3	3	12	3	12	3	0%	59%	46%	23%	23%	53%	0.29	0.32	1.10
A54	Rectangle	87%	3	3	12	3	12	3	0%	10%	8%	29%	29%	9%	0.29	0.32	1.10
A55	Rectangle	69%	3	3	12	3	12	3	0%	23%	18%	27%	27%	21%	0.29	0.32	1.10
A56	Rectangle	61%	3	3	12	3	12	3	0%	29%	23%	27%	27%	26%	0.29	0.32	1.10
A111	Rectangle	46%	3	3	12	3	12	3	0%	41%	32%	25%	25%	37%	0.29	0.32	1.10
A112	Rectangle	23%	3	3	12	3	12	3	0%	58%	45%	23%	23%	52%	0.29	0.32	1.10
A113	Rectangle	23%	3	3	12	3	12	3	0%	58%	45%	23%	23%	52%	0.29	0.32	1.10
A114	Rectangle	23%	3	3	12	3	12	3	0%	58%	45%	23%	23%	52%	0.29	0.32	1.10
A115	Rectangle	11%	3	3	12	3	12	3	0%	66%	52%	22%	22%	60%	0.29	0.32	1.10
A116	Rectangle	34%	3	3	12	3	12	3	0%	49%	39%	24%	24%	45%	0.29	0.32	1.10
A121	Rectangle	36%	3	3	12	3	12	3	0%	48%	38%	24%	24%	44%	0.29	0.32	1.10
A122	Rectangle	15%	3	3	12	3	12	3	0%	64%	50%	22%	22%	58%	0.29	0.32	1.10
A123	Rectangle	20%	3	3	12	3	12	3	0%	60%	47%	23%	23%	54%	0.29	0.32	1.10
A124	Rectangle	36%	3	3	12	3	12	3	0%	48%	38%	24%	24%	44%	0.29	0.32	1.10
A125	Rectangle	25%	3	3	12	3	12	3	0%	56%	44%	23%	23%	51%	0.29	0.32	1.10
A126	Rectangle	18%	3	3	12	3	12	3	0%	62%	48%	23%	23%	56%	0.29	0.32	1.10
A127	Rectangle	18%	3	3	12	3	12	3	0%	62%	48%	23%	23%	56%	0.29	0.32	1.10
A128	Rectangle	8%	3	3	12	3	12	3	0%	69%	54%	22%	22%	63%	0.29	0.32	1.10
B1	Rectangle-Half S	87%	3	3	12	3	12	3	0%	9%	7%	29%	29%	9%	0.29	0.32	1.10
B2	Rectangle-Half S	58%	3	3	12	3	12	3	0%	31%	25%	26%	26%	28%	0.29	0.32	1.10
B3	Rectangle-Half S	58%	3	3	12	3	12	3	0%	31%	25%	26%	26%	28%	0.29	0.32	1.10
B4	Rectangle-Half S	29%	3	3	12	3	12	3	0%	53%	42%	24%	24%	48%	0.29	0.32	1.10
B5	Rectangle-Half S	29%	3	3	12	3	12	3	0%	53%	42%	24%	24%	48%	0.29	0.32	1.10
B6	Rectangle-Half S	15%	3	3	12	3	12	3	0%	64%	50%	22%	22%	58%	0.29	0.32	1.10
B7	Rectangle-Half S	29%	3	3	12	3	12	3	0%	53%	42%	24%	24%	48%	0.29	0.32	1.10
B8	Rectangle-Half S	44%	3	3	12	3	12	3	0%	42%	33%	25%	25%	38%	0.29	0.32	1.10
B21	Rectangle-Half S	73%	3	3	12	3	12	3	0%	20%	16%	28%	28%	16%	0.29	0.32	1.10
B22	Rectangle-Half S	44%	3	3	12	3	12	3	0%	42%	33%	25%	25%	38%	0.29	0.32	1.10
B23	Rectangle-Half S	15%	3	3	12	3	12	3	0%	64%	50%	22%	22%	58%	0.29	0.32	1.10
B24	Rectangle-Half S	58%	3	3	12	3	12	3	0%	31%	25%	26%	26%	28%	0.29	0.32	1.10
B25	Rectangle-Half S	29%	3	3	12	3	12	3	0%	53%	42%	24%	24%	48%	0.29	0.32	1.10
B26	Rectangle-Half S	44%	3	3	12	3	12	3	0%	42%	33%	25%	25%	38%	0.29	0.32	1.10
B31	Rectangle-Half S	39%	3	3	12	3	12	3	0%	46%	36%	24%	24%	42%	0.29	0.32	1.10
B32	Rectangle-Half S	19%	3	3	12	3	12	3	0%	60%	48%	23%	23%	55%	0.29	0.32	1.10
B33	Rectangle-Half S	39%	3	3	12	3	12	3	0%	46%	36%	24%	24%	42%	0.29	0.32	1.10
B34	Rectangle-Half S	19%	3	3	12	3	12	3	0%	60%	48%	23%	23%	55%	0.29	0.32	1.10
B35	Rectangle-Half S	10%	3	3	12	3	12	3	0%	68%	53%	22%	22%	61%	0.29	0.32	1.10
B36	Rectangle-Half S	32%	3	3	12	3	12	3	0%	51%	40%	24%	24%	47%	0.29	0.32	1.10
C11	Circle	60%	3	3	12	3	12	3	0%	30%	24%	26%	26%	27%	0.29	0.32	1.10
C12	Circle	40%	3	3	12	3	12	3	0%	45%	35%	25%	25%	41%	0.29	0.32	1.10
C13	Circle	20%	3	3	12	3	12	3	0%	60%	47%	23%	23%	54%	0.29	0.32	1.10
C21	Circle	78%	3	3	12	3	12	3	0%	16%	13%	28%	28%	15%	0.29	0.32	1.10
C22	Circle	79%	3	3	12	3	12	3	0%	16%	12%	28%	28%	14%	0.29	0.32	1.10
C23	Circle	42%	3	3	12	3	12	3	0%	43%	34%	25%	25%	39%	0.29	0.32	1.10
C24	Circle	38%	3	3	12	3	12	3	0%	46%	36%	24%	24%	42%	0.29	0.32	1.10
C25	Circle	65%	3	3	12	3	12	3	0%	26%	21%	27%	27%	24%	0.29	0.32	1.10
C31	Circle	70%	3	3	12	3	12	3	0%	22%	18%	27%	27%	20%	0.29	0.32	1.10
C32	Circle	57%	3	3	12	3	12	3	0%	32%	25%	26%	26%	29%	0.29	0.32	1.10
C33	Circle	35%	3	3	12	3	12	3	0%	49%	38%	24%	24%	44%	0.29	0.32	1.10
C34	Circle	63%	3	3	12	3	12	3	0%	28%	22%	27%	27%	25%	0.29	0.32	1.10
C35	Circle	40%	3	3	12	3	12	3	0%	45%	35%	25%	25%	41%	0.29	0.32	1.10
C36	Circle	20%	3	3	12	3	12	3	0%	60%	47%	23%	23%	54%	0.29	0.32	1.10
C41	Circle	52%	3	3	12	3	12	3	0%	36%	28%	26%	26%	33%	0.29	0.32	1.10
C42	Circle	34%	3	3	12	3	12	3	0%	49%	39%	24%	24%	45%	0.29	0.32	1.10
C43	Circle	44%	3	3	12	3	12	3	0%	42%	33%	25%	25%	38%	0.29	0.32	1.10
C44	Circle	54%	3	3	12	3	12	3	0%	35%	27%	26%	26%	31%	0.29	0.32	1.10
C52	Circle	44%	3	3	12	3	12	3	0%	42%	33%	25%	25%	38%	0.29	0.32	1.10
C53	Circle	46%	3	3	12	3	12	3	0%	41%	32%	25%	25%	37%	0.29	0.32	1.10
C54	Circle	46%	3	3	12	3	12	3	0%	38%	30%	25%	25%	35%	0.29	0.32	1.10
C55	Circle	36%	3	3	12	3	12	3	0%	48%	38%	24%	24%	44%	0.29	0.32	1.10
C14	Triangle	51%	3	3	12	3	12	3	0%	37%	29%	26%	26%	33%	0.29	0.32	1.10
C15	Triangle	36%	3	3	12	3	12	3	0%	48%	38%	24%	24%	44%	0.29	0.32	1.10
C16	Triangle	31%	3	3	12	3	12	3	0%	52%	41%						

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Panel Layers LowIron-LowIron-Spacer-Clear-Spacer-Clear			Layers						UV %	Visible Light Transmittance	Total Solar Transmittance	Visible Reflectance		Solar Heat Gain Coefficient	U-Value (BTU/hrft2F)		Light to Solar Gain
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime	
C74	Triangle	47%	3	3	12	3	12	3	0%	40%	31%	25%	25%	36%	0.29	0.32	1.10
C75	Triangle	37%	3	3	12	3	12	3	0%	47%	37%	24%	24%	43%	0.29	0.32	1.10
C76	Triangle	41%	3	3	12	3	12	3	0%	44%	35%	25%	25%	40%	0.29	0.32	1.10
C17	Hexagon	48%	3	3	12	3	12	3	0%	39%	31%	25%	25%	35%	0.29	0.32	1.10
C18	Hexagon	32%	3	3	12	3	12	3	0%	51%	40%	24%	24%	46%	0.29	0.32	1.10
C19	Hexagon	16%	3	3	12	3	12	3	0%	63%	50%	22%	22%	57%	0.29	0.32	1.10
C81	Hexagon	68%	3	3	12	3	12	3	0%	24%	19%	27%	27%	22%	0.29	0.32	1.10
C82	Hexagon	36%	3	3	12	3	12	3	0%	48%	37%	24%	24%	43%	0.29	0.32	1.10
C83	Hexagon	36%	3	3	12	3	12	3	0%	48%	37%	24%	24%	43%	0.29	0.32	1.10
C84	Hexagon	52%	3	3	12	3	12	3	0%	36%	28%	26%	26%	32%	0.29	0.32	1.10
C85	Hexagon	22%	3	3	12	3	12	3	0%	59%	46%	23%	23%	53%	0.29	0.32	1.10
C81	Hexagon	69%	3	3	12	3	12	3	0%	23%	18%	27%	27%	21%	0.29	0.32	1.10
C82	Hexagon	53%	3	3	12	3	12	3	0%	35%	26%	26%	26%	32%	0.29	0.32	1.10
C83	Hexagon	37%	3	3	12	3	12	3	0%	47%	37%	24%	24%	43%	0.29	0.32	1.10
C84	Hexagon	10%	3	3	12	3	12	3	0%	68%	53%	22%	22%	61%	0.29	0.32	1.10
C85	Hexagon	32%	3	3	12	3	12	3	0%	51%	40%	24%	24%	47%	0.29	0.32	1.10
C86	Hexagon	47%	3	3	12	3	12	3	0%	40%	31%	25%	25%	36%	0.29	0.32	1.10
C101	Parallelogram	63%	3	3	12	3	12	3	0%	28%	22%	27%	27%	25%	0.29	0.32	1.10
C102	Parallelogram	30%	3	3	12	3	12	3	0%	53%	41%	24%	24%	48%	0.29	0.32	1.10
C103	Parallelogram	37%	3	3	12	3	12	3	0%	48%	37%	24%	24%	43%	0.29	0.32	1.10
C104	Parallelogram	32%	3	3	12	3	12	3	0%	51%	40%	24%	24%	47%	0.29	0.32	1.10
C105	Parallelogram	23%	3	3	12	3	12	3	0%	58%	45%	23%	23%	52%	0.29	0.32	1.10
C106	Parallelogram	50%	3	3	12	3	12	3	0%	38%	30%	25%	25%	34%	0.29	0.32	1.10
C111	Parallelogram	53%	3	3	12	3	12	3	0%	35%	28%	26%	26%	32%	0.29	0.32	1.10
C112	Parallelogram	40%	3	3	12	3	12	3	0%	45%	35%	25%	25%	41%	0.29	0.32	1.10
C113	Parallelogram	43%	3	3	12	3	12	3	0%	43%	33%	25%	25%	39%	0.29	0.32	1.10
C114	Parallelogram	27%	3	3	12	3	12	3	0%	55%	43%	23%	23%	50%	0.29	0.32	1.10
C115	Parallelogram	40%	3	3	12	3	12	3	0%	45%	35%	25%	25%	41%	0.29	0.32	1.10
C116	Parallelogram	27%	3	3	12	3	12	3	0%	55%	43%	23%	23%	50%	0.29	0.32	1.10

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Panel Layers LowIron-LowIron-Spacer-Clear-Spacer-Clear			Layers						UV %		Visible Light Transmittance		Total Solar Transmittance		Visible Reflectance		Solar Heat Gain Coefficient		U-Value (BTU/hrft2F)		Light to Solar Gain
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness	%	%	%	%	Exterior	Interior	%	%	Winter Nighttime	Summer Daytime			
Non-Active	Any Shape	0%	4	4	12	4	12	4	1%	74%	56%	21%	21%	67%	0.28	0.32	1.10				
A1	Rectangle	92%	4	4	12	4	12	4	0%	6%	5%	29%	29%	6%	0.28	0.32	1.10				
A2	Rectangle	61%	4	4	12	4	12	4	0%	29%	22%	27%	27%	26%	0.28	0.32	1.10				
A3	Rectangle	61%	4	4	12	4	12	4	0%	29%	22%	27%	27%	26%	0.28	0.32	1.10				
A4	Rectangle	31%	4	4	12	4	12	4	1%	51%	39%	24%	24%	47%	0.28	0.32	1.10				
A5	Rectangle	31%	4	4	12	4	12	4	1%	51%	39%	24%	24%	47%	0.28	0.32	1.10				
A6	Rectangle	15%	4	4	12	4	12	4	1%	63%	47%	22%	22%	57%	0.28	0.32	1.10				
A7	Rectangle	31%	4	4	12	4	12	4	1%	51%	39%	24%	24%	47%	0.28	0.32	1.10				
A8	Rectangle	46%	4	4	12	4	12	4	1%	40%	30%	25%	25%	36%	0.28	0.32	1.10				
A21	Rectangle	76%	4	4	12	4	12	4	0%	17%	13%	28%	28%	16%	0.28	0.32	1.10				
A22	Rectangle	38%	4	4	12	4	12	4	1%	46%	35%	24%	24%	41%	0.28	0.32	1.10				
A23	Rectangle	15%	4	4	12	4	12	4	1%	63%	47%	22%	22%	57%	0.28	0.32	1.10				
A24	Rectangle	46%	4	4	12	4	12	4	1%	40%	30%	25%	25%	36%	0.28	0.32	1.10				
A25	Rectangle	31%	4	4	12	4	12	4	1%	51%	39%	24%	24%	47%	0.28	0.32	1.10				
A26	Rectangle	15%	4	4	12	4	12	4	1%	63%	47%	22%	22%	57%	0.28	0.32	1.10				
A27	Rectangle	23%	4	4	12	4	12	4	1%	57%	43%	23%	23%	52%	0.28	0.32	1.10				
A31	Rectangle	31%	4	4	12	4	12	4	1%	51%	39%	24%	24%	47%	0.28	0.32	1.10				
A32	Rectangle	20%	4	4	12	4	12	4	1%	59%	45%	23%	23%	53%	0.28	0.32	1.10				
A33	Rectangle	10%	4	4	12	4	12	4	1%	66%	50%	22%	22%	60%	0.28	0.32	1.10				
A34	Rectangle	5%	4	4	12	4	12	4	1%	70%	53%	21%	21%	64%	0.28	0.32	1.10				
A41	Rectangle	74%	4	4	12	4	12	4	0%	19%	15%	28%	28%	17%	0.28	0.32	1.10				
A42	Rectangle	47%	4	4	12	4	12	4	1%	39%	30%	25%	25%	35%	0.28	0.32	1.10				
A43	Rectangle	14%	4	4	12	4	12	4	1%	64%	48%	22%	22%	58%	0.28	0.32	1.10				
A44	Rectangle	10%	4	4	12	4	12	4	1%	66%	50%	22%	22%	60%	0.28	0.32	1.10				
A45	Rectangle	43%	4	4	12	4	12	4	1%	42%	32%	25%	25%	38%	0.28	0.32	1.10				
A46	Rectangle	60%	4	4	12	4	12	4	0%	30%	22%	26%	26%	27%	0.28	0.32	1.10				
A51	Rectangle	57%	4	4	12	4	12	4	0%	32%	24%	26%	26%	29%	0.28	0.32	1.10				
A52	Rectangle	27%	4	4	12	4	12	4	1%	54%	41%	23%	23%	49%	0.28	0.32	1.10				
A53	Rectangle	22%	4	4	12	4	12	4	1%	58%	44%	23%	23%	52%	0.28	0.32	1.10				
A54	Rectangle	87%	4	4	12	4	12	4	0%	10%	7%	29%	29%	9%	0.28	0.32	1.10				
A55	Rectangle	69%	4	4	12	4	12	4	0%	23%	17%	27%	27%	21%	0.28	0.32	1.10				
A56	Rectangle	61%	4	4	12	4	12	4	0%	29%	22%	27%	27%	26%	0.28	0.32	1.10				
A111	Rectangle	46%	4	4	12	4	12	4	1%	40%	30%	25%	25%	36%	0.28	0.32	1.10				
A112	Rectangle	23%	4	4	12	4	12	4	1%	57%	43%	23%	23%	52%	0.28	0.32	1.10				
A113	Rectangle	23%	4	4	12	4	12	4	1%	57%	43%	23%	23%	52%	0.28	0.32	1.10				
A114	Rectangle	23%	4	4	12	4	12	4	1%	57%	43%	23%	23%	52%	0.28	0.32	1.10				
A115	Rectangle	11%	4	4	12	4	12	4	1%	66%	50%	22%	22%	59%	0.28	0.32	1.10				
A116	Rectangle	34%	4	4	12	4	12	4	1%	49%	37%	24%	24%	44%	0.28	0.32	1.10				
A121	Rectangle	36%	4	4	12	4	12	4	1%	48%	36%	24%	24%	43%	0.28	0.32	1.10				
A122	Rectangle	15%	4	4	12	4	12	4	1%	63%	47%	22%	22%	57%	0.28	0.32	1.10				
A123	Rectangle	20%	4	4	12	4	12	4	1%	59%	45%	23%	23%	53%	0.28	0.32	1.10				
A124	Rectangle	36%	4	4	12	4	12	4	1%	48%	36%	24%	24%	43%	0.28	0.32	1.10				
A125	Rectangle	25%	4	4	12	4	12	4	1%	55%	42%	23%	23%	50%	0.28	0.32	1.10				
A126	Rectangle	18%	4	4	12	4	12	4	1%	61%	46%	23%	23%	55%	0.28	0.32	1.10				
A127	Rectangle	18%	4	4	12	4	12	4	1%	61%	46%	23%	23%	55%	0.28	0.32	1.10				
A128	Rectangle	8%	4	4	12	4	12	4	1%	68%	52%	22%	22%	62%	0.28	0.32	1.10				
B1	Rectangle-Half S	87%	4	4	12	4	12	4	0%	9%	7%	29%	29%	8%	0.28	0.32	1.10				
B2	Rectangle-Half S	59%	4	4	12	4	12	4	0%	31%	23%	26%	26%	28%	0.28	0.32	1.10				
B3	Rectangle-Half S	59%	4	4	12	4	12	4	0%	31%	23%	26%	26%	28%	0.28	0.32	1.10				
B4	Rectangle-Half S	29%	4	4	12	4	12	4	1%	52%	40%	24%	24%	47%	0.28	0.32	1.10				
B5	Rectangle-Half S	29%	4	4	12	4	12	4	1%	52%	40%	24%	24%	47%	0.28	0.32	1.10				
B6	Rectangle-Half S	15%	4	4	12	4	12	4	1%	63%	48%	22%	22%	57%	0.28	0.32	1.10				
B7	Rectangle-Half S	29%	4	4	12	4	12	4	1%	52%	40%	24%	24%	47%	0.28	0.32	1.10				
B8	Rectangle-Half S	44%	4	4	12	4	12	4	1%	42%	32%	25%	25%	38%	0.28	0.32	1.10				
B21	Rectangle-Half S	73%	4	4	12	4	12	4	0%	20%	15%	28%	28%	16%	0.28	0.32	1.10				
B22	Rectangle-Half S	44%	4	4	12	4	12	4	1%	42%	32%	25%	25%	38%	0.28	0.32	1.10				
B23	Rectangle-Half S	15%	4	4	12	4	12	4	1%	63%	48%	22%	22%	57%	0.28	0.32	1.10				
B24	Rectangle-Half S	58%	4	4	12	4	12	4	0%	31%	23%	26%	26%	28%	0.28	0.32	1.10				
B25	Rectangle-Half S	29%	4	4	12	4	12	4	1%	52%	40%	24%	24%	47%	0.28	0.32	1.10				
B26	Rectangle-Half S	44%	4	4	12	4	12	4	1%	42%	32%	25%	25%	38%	0.28	0.32	1.10				
B31	Rectangle-Half S	39%	4	4	12	4	12	4	1%	45%	34%	24%	24%	41%	0.28	0.32	1.10				
B32	Rectangle-Half S	19%	4	4	12	4	12	4	1%	60%	45%	23%	23%	54%	0.28	0.32	1.10				
B33	Rectangle-Half S	39%	4	4	12	4	12	4	1%	45%	34%	24%	24%	41%	0.28	0.32	1.10				
B34	Rectangle-Half S	19%	4	4	12	4	12	4	1%	60%	45%	23%	23%	54%	0.28	0.32	1.10				
B35	Rectangle-Half S	10%	4	4	12	4	12	4	1%	67%	51%	22%	22%	60%	0.28	0.32	1.10				
B36	Rectangle-Half S	32%	4	4	12	4	12	4	1%	51%	38%	24%	24%	46%	0.28	0.32	1.10				
C11	Circle	60%	4	4	12	4	12	4	0%	30%	22%	26%	26%	27%	0.28	0.32	1.10				
C12	Circle	40%	4	4	12	4	12	4	1%	44%	34%	25%	25%	40%	0.28	0.32	1.10				
C13	Circle	20%	4	4	12	4	12	4	1%	59%	45%	23%	23%	54%	0.28	0.32	1.10				
C21	Circle	78%	4	4	12	4	12	4	0%	16%	12%	28%	28%	15%	0.28	0.32	1.10				
C22	Circle	79%	4	4	12	4	12	4	0%	15%	12%	28%	28%	14%	0.28	0.32	1.10				
C23	Circle	42%	4	4	12	4	12	4	1%	43%	32%	25%	25%	39%	0.28	0.32	1.10				
C24	Circle	38%	4	4	12	4	12	4	1%	46%	35%	24%	24%	41%	0.28	0.32	1.10				
C25	Circle	65%	4	4	12	4	12	4	0%	26%	19%	27%	27%	23%	0.28	0.32	1.10				
C31	Circle	70%	4	4	12	4	12	4	0%	22%	17%	27%	27%	20%	0.28	0.32	1.10				
C32	Circle	57%	4	4	12	4	12	4	0%	32%	24%	26%	26%	29%	0.28	0.32	1.10				
C33	Circle	65%	4	4	12	4	12	4	1%	48%	36%	24%	24%	44%	0.28	0.32	1.10				
C34	Circle	39%	4	4	12	4	12	4	0%	28%	21%	27%	27%	25%	0.28	0.32	1.10				
C35	Circle	40%	4	4	12	4	12	4	1%	44%	34%	25%	25%	40%	0.28	0.32	1.10				
C36	Circle	20%	4	4	12	4	12	4	1%	59%	45%	23%	23%	54%	0.28	0.32	1.10				
C41	Circle	52%	4	4	12	4	12	4	0%	35%	27%	26%	26%	32%	0.28	0.32	1.10				
C42	Circle	34%	4	4	12	4	12	4	1%	49%	37%	24%	24%	44%	0.28	0.32	1.10				
C43	Circle	44%	4	4	12	4	12	4	1%	41%	31%	25%	25%	38%	0.28	0.32	1.10				

LLSCSC4

Panel Layers LowIron-LowIron-Spacer-Clear-Spacer-Clear			Layers						UV %	Visible Light Transmittance	Total Solar Transmittance	Visible Reflectance		Solar Heat Gain Coefficient	U-Value (BTU/hrft2F)		Light to Solar Gain
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime	
C74	Triangle	47%	4	4	12	4	12	4	1%	39%	30%	25%	25%	35%	0.28	0.32	1.10
C75	Triangle	37%	4	4	12	4	12	4	1%	47%	35%	24%	24%	42%	0.28	0.32	1.10
C76	Triangle	41%	4	4	12	4	12	4	1%	43%	33%	25%	25%	39%	0.28	0.32	1.10
C17	Hexagon	48%	4	4	12	4	12	4	1%	38%	29%	25%	25%	35%	0.28	0.32	1.10
C18	Hexagon	32%	4	4	12	4	12	4	1%	50%	38%	24%	24%	45%	0.28	0.32	1.10
C19	Hexagon	16%	4	4	12	4	12	4	1%	62%	47%	22%	22%	56%	0.28	0.32	1.10
C81	Hexagon	68%	4	4	12	4	12	4	0%	24%	18%	27%	27%	21%	0.28	0.32	1.10
C82	Hexagon	36%	4	4	12	4	12	4	1%	47%	36%	24%	24%	43%	0.28	0.32	1.10
C83	Hexagon	36%	4	4	12	4	12	4	1%	47%	36%	24%	24%	43%	0.28	0.32	1.10
C84	Hexagon	52%	4	4	12	4	12	4	0%	36%	27%	26%	26%	32%	0.28	0.32	1.10
C85	Hexagon	22%	4	4	12	4	12	4	1%	58%	44%	23%	23%	52%	0.28	0.32	1.10
C91	Hexagon	69%	4	4	12	4	12	4	0%	23%	17%	27%	27%	21%	0.28	0.32	1.10
C92	Hexagon	53%	4	4	12	4	12	4	0%	35%	26%	26%	26%	31%	0.28	0.32	1.10
C93	Hexagon	37%	4	4	12	4	12	4	1%	46%	35%	24%	24%	42%	0.28	0.32	1.10
C94	Hexagon	10%	4	4	12	4	12	4	1%	67%	50%	22%	22%	60%	0.28	0.32	1.10
C95	Hexagon	32%	4	4	12	4	12	4	1%	51%	38%	24%	24%	46%	0.28	0.32	1.10
C96	Hexagon	47%	4	4	12	4	12	4	1%	39%	30%	25%	25%	35%	0.28	0.32	1.10
C101	Parallelogram	63%	4	4	12	4	12	4	0%	27%	21%	27%	27%	25%	0.28	0.32	1.10
C102	Parallelogram	30%	4	4	12	4	12	4	1%	52%	39%	24%	24%	47%	0.28	0.32	1.10
C103	Parallelogram	37%	4	4	12	4	12	4	1%	47%	36%	24%	24%	42%	0.28	0.32	1.10
C104	Parallelogram	32%	4	4	12	4	12	4	1%	51%	38%	24%	24%	46%	0.28	0.32	1.10
C105	Parallelogram	23%	4	4	12	4	12	4	1%	57%	43%	23%	23%	51%	0.28	0.32	1.10
C106	Parallelogram	50%	4	4	12	4	12	4	1%	37%	28%	25%	25%	34%	0.28	0.32	1.10
C111	Parallelogram	53%	4	4	12	4	12	4	0%	35%	26%	26%	26%	31%	0.28	0.32	1.10
C112	Parallelogram	40%	4	4	12	4	12	4	1%	44%	34%	25%	25%	40%	0.28	0.32	1.10
C113	Parallelogram	43%	4	4	12	4	12	4	1%	42%	32%	25%	25%	38%	0.28	0.32	1.10
C114	Parallelogram	27%	4	4	12	4	12	4	1%	54%	41%	23%	23%	49%	0.28	0.32	1.10
C115	Parallelogram	40%	4	4	12	4	12	4	1%	44%	34%	25%	25%	40%	0.28	0.32	1.10
C116	Parallelogram	27%	4	4	12	4	12	4	1%	54%	41%	23%	23%	49%	0.28	0.32	1.10

LLSCSC6

Panel Layers LowIron-LowIron-Spacer-Clear-Spacer-Clear			Layers						UV %	Visible Light Transmittance	Total Solar Transmittance	Visible Reflectance		Solar Heat Gain Coefficient	U-Value (BTU/hrft2F)		Light to Solar Gain
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime	
Non-Active	Any Shape	0%	6	6	12	6	12	6	0%	72%	50%	21%	20%	64%	0.28	0.32	1.13
A1	Rectangle	92%	6	6	12	6	12	6	0%	29%	4%	29%	29%	5%	0.28	0.32	1.13
A2	Rectangle	61%	6	6	12	6	12	6	0%	28%	19%	27%	26%	25%	0.28	0.32	1.13
A3	Rectangle	61%	6	6	12	6	12	6	0%	28%	19%	27%	26%	25%	0.28	0.32	1.13
A4	Rectangle	31%	6	6	12	6	12	6	0%	50%	35%	24%	23%	44%	0.28	0.32	1.13
A5	Rectangle	31%	6	6	12	6	12	6	0%	50%	35%	24%	23%	44%	0.28	0.32	1.13
A6	Rectangle	15%	6	6	12	6	12	6	0%	61%	42%	22%	22%	54%	0.28	0.32	1.13
A7	Rectangle	31%	6	6	12	6	12	6	0%	50%	35%	24%	23%	44%	0.28	0.32	1.13
A8	Rectangle	46%	6	6	12	6	12	6	0%	39%	27%	25%	25%	35%	0.28	0.32	1.13
A21	Rectangle	76%	6	6	12	6	12	6	0%	17%	12%	28%	28%	15%	0.28	0.32	1.13
A22	Rectangle	38%	6	6	12	6	12	6	0%	44%	31%	24%	24%	40%	0.28	0.32	1.13
A23	Rectangle	15%	6	6	12	6	12	6	0%	61%	42%	22%	22%	54%	0.28	0.32	1.13
A24	Rectangle	46%	6	6	12	6	12	6	0%	39%	27%	25%	25%	35%	0.28	0.32	1.13
A25	Rectangle	31%	6	6	12	6	12	6	0%	50%	35%	24%	23%	44%	0.28	0.32	1.13
A26	Rectangle	15%	6	6	12	6	12	6	0%	61%	42%	22%	22%	54%	0.28	0.32	1.13
A27	Rectangle	23%	6	6	12	6	12	6	0%	51%	39%	23%	22%	49%	0.28	0.32	1.13
A31	Rectangle	31%	6	6	12	6	12	6	0%	50%	35%	24%	23%	44%	0.28	0.32	1.13
A32	Rectangle	20%	6	6	12	6	12	6	0%	57%	40%	23%	22%	51%	0.28	0.32	1.13
A33	Rectangle	10%	6	6	12	6	12	6	0%	65%	45%	22%	21%	57%	0.28	0.32	1.13
A34	Rectangle	5%	6	6	12	6	12	6	0%	68%	47%	21%	21%	61%	0.28	0.32	1.13
A41	Rectangle	74%	6	6	12	6	12	6	0%	19%	13%	38%	27%	17%	0.28	0.32	1.13
A42	Rectangle	47%	6	6	12	6	12	6	0%	38%	26%	25%	25%	34%	0.28	0.32	1.13
A43	Rectangle	14%	6	6	12	6	12	6	0%	62%	43%	22%	21%	55%	0.28	0.32	1.13
A44	Rectangle	10%	6	6	12	6	12	6	0%	65%	45%	22%	21%	57%	0.28	0.32	1.13
A45	Rectangle	43%	6	6	12	6	12	6	0%	41%	28%	25%	24%	36%	0.28	0.32	1.13
A46	Rectangle	60%	6	6	12	6	12	6	0%	29%	20%	28%	26%	26%	0.28	0.32	1.13
A51	Rectangle	57%	6	6	12	6	12	6	0%	31%	21%	26%	26%	27%	0.28	0.32	1.13
A52	Rectangle	27%	6	6	12	6	12	6	0%	53%	37%	23%	23%	47%	0.28	0.32	1.13
A53	Rectangle	22%	6	6	12	6	12	6	0%	56%	39%	23%	22%	50%	0.28	0.32	1.13
A54	Rectangle	87%	6	6	12	6	12	6	0%	10%	7%	29%	29%	9%	0.28	0.32	1.13
A55	Rectangle	69%	6	6	12	6	12	6	0%	22%	16%	27%	27%	20%	0.28	0.32	1.13
A56	Rectangle	61%	6	6	12	6	12	6	0%	28%	19%	27%	26%	25%	0.28	0.32	1.13
A111	Rectangle	46%	6	6	12	6	12	6	0%	39%	27%	25%	25%	35%	0.28	0.32	1.13
A112	Rectangle	23%	6	6	12	6	12	6	0%	55%	39%	23%	22%	49%	0.28	0.32	1.13
A113	Rectangle	23%	6	6	12	6	12	6	0%	55%	39%	23%	22%	49%	0.28	0.32	1.13
A114	Rectangle	23%	6	6	12	6	12	6	0%	55%	39%	23%	22%	49%	0.28	0.32	1.13
A115	Rectangle	11%	6	6	12	6	12	6	0%	64%	44%	22%	21%	57%	0.28	0.32	1.13
A116	Rectangle	34%	6	6	12	6	12	6	0%	47%	33%	24%	23%	42%	0.28	0.32	1.13
A121	Rectangle	36%	6	6	12	6	12	6	0%	46%	32%	24%	24%	41%	0.28	0.32	1.13
A122	Rectangle	15%	6	6	12	6	12	6	0%	61%	42%	22%	22%	54%	0.28	0.32	1.13
A123	Rectangle	20%	6	6	12	6	12	6	0%	57%	40%	23%	22%	51%	0.28	0.32	1.13
A124	Rectangle	36%	6	6	12	6	12	6	0%	46%	32%	24%	24%	41%	0.28	0.32	1.13
A125	Rectangle	25%	6	6	12	6	12	6	0%	54%	37%	23%	23%	46%	0.28	0.32	1.13
A126	Rectangle	18%	6	6	12	6	12	6	0%	59%	41%	23%	22%	53%	0.28	0.32	1.13
A127	Rectangle	18%	6	6	12	6	12	6	0%	59%	41%	23%	22%	53%	0.28	0.32	1.13
A128	Rectangle	8%	6	6	12	6	12	6	0%	66%	46%	22%	21%	59%	0.28	0.32	1.13
B1	Rectangle-Half S	87%	6	6	12	6	12	6	0%	9%	6%	29%	29%	8%	0.28	0.32	1.13
B2	Rectangle-Half S	58%	6	6	12	6	12	6	0%	30%	21%	26%	26%	27%	0.28	0.32	1.13
B3	Rectangle-Half S	58%	6	6	12	6	12	6	0%	30%	21%	26%	26%	27%	0.28	0.32	1.13
B4	Rectangle-Half S	29%	6	6	12	6	12	6	0%	51%	35%	24%	23%	45%	0.28	0.32	1.13
B5	Rectangle-Half S	29%	6	6	12	6	12	6	0%	51%	35%	24%	23%	45%	0.28	0.32	1.13
B6	Rectangle-Half S	15%	6	6	12	6	12	6	0%	62%	43%	22%	21%	55%	0.28	0.32	1.13
B7	Rectangle-Half S	29%	6	6	12	6	12	6	0%	51%	35%	24%	23%	45%	0.28	0.32	1.13
B8	Rectangle-Half S	44%	6	6	12	6	12	6	0%	41%	28%	25%	24%	36%	0.28	0.32	1.13
B21	Rectangle-Half S	73%	6	6	12	6	12	6	0%	20%	14%	38%	27%	17%	0.28	0.32	1.13
B22	Rectangle-Half S	44%	6	6	12	6	12	6	0%	41%	28%	25%	24%	36%	0.28	0.32	1.13
B23	Rectangle-Half S	15%	6	6	12	6	12	6	0%	62%	43%	22%	21%	55%	0.28	0.32	1.13
B24	Rectangle-Half S	58%	6	6	12	6	12	6	0%	30%	21%	26%	26%	27%	0.28	0.32	1.13
B25	Rectangle-Half S	29%	6	6	12	6	12	6	0%	51%	35%	24%	23%	45%	0.28	0.32	1.13
B26	Rectangle-Half S	44%	6	6	12	6	12	6	0%	41%	28%	25%	24%	36%	0.28	0.32	1.13
B31	Rectangle-Half S	39%	6	6	12	6	12	6	0%	44%	31%	24%	24%	39%	0.28	0.32	1.13
B32	Rectangle-Half S	19%	6	6	12	6	12	6	0%	58%	40%	23%	22%	52%	0.28	0.32	1.13
B33	Rectangle-Half S	39%	6	6	12	6	12	6	0%	44%	31%	24%	24%	39%	0.28	0.32	1.13
B34	Rectangle-Half S	19%	6	6	12	6	12	6	0%	58%	40%	23%	22%	52%	0.28	0.32	1.13
B35	Rectangle-Half S	10%	6	6	12	6	12	6	0%	65%	45%	22%	21%	58%	0.28	0.32	1.13
B36	Rectangle-Half S	32%	6	6	12	6	12	6	0%	49%	34%	24%	23%	44%	0.28	0.32	1.13
C11	Circle	60%	6	6	12	6	12	6	0%	29%	20%	26%	26%	26%	0.28	0.32	1.13
C12	Circle	40%	6	6	12	6	12	6	0%	43%	30%	25%	24%	38%	0.28	0.32	1.13
C13	Circle	20%	6	6	12	6	12	6	0%	58%	40%	23%	22%	51%	0.28	0.32	1.13
C21	Circle	78%	6	6	12	6	12	6	0%	16%	11%	28%	28%	14%	0.28	0.32	1.13
C22	Circle	79%	6	6	12	6	12	6	0%	15%	10%	28%	28%	13%	0.28	0.32	1.13
C23	Circle	42%	6	6	12	6	12	6	0%	41%	29%	25%	24%	37%	0.28	0.32	1.13
C24	Circle	38%	6	6	12	6	12	6	0%	44%	31%	24%	24%	39%	0.28	0.32	1.13
C25	Circle	65%	6	6	12	6	12	6	0%	25%	17%	27%	27%	22%	0.28	0.32	1.13
C31	Circle	70%	6	6	12	6	12	6	0%	22%	15%	27%	27%	19%	0.28	0.32	1.13
C32	Circle	57%	6	6	12	6	12	6	0%	31%	21%	26%	26%	27%	0.28	0.32	1.13
C33	Circle	35%	6	6	12	6	12	6	0%	47%	32%	24%	24%	42%	0.28	0.32	1.13
C34	Circle	63%	6	6	12	6	12	6	0%	27%	19%	27%	26%	24%	0.28	0.32	1.13
C35	Circle	40%	6	6	12	6	12	6	0%	43%	30%	25%	24%	38%</			

LLSCSC6

Panel Layers LowIron-LowIron-Spacer-Clear-Spacer-Clear			Layers						UV %	Visible Light Transmittance	Total Solar Transmittance	Visible Reflectance		Solar Heat Gain Coefficient	U-Value (BTU/hrft2F)		Light to Solar Gain
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime	
C74	Triangle	47%	6	6	12	6	12	6	0%	38%	26%	25%	25%	34%	0.28	0.32	1.13
C75	Triangle	37%	6	6	12	6	12	6	0%	45%	32%	24%	24%	40%	0.28	0.32	1.13
C76	Triangle	41%	6	6	12	6	12	6	0%	42%	29%	25%	24%	38%	0.28	0.32	1.13
C17	Hexagon	48%	6	6	12	6	12	6	0%	37%	26%	25%	25%	33%	0.28	0.32	1.13
C18	Hexagon	32%	6	6	12	6	12	6	0%	49%	34%	24%	23%	43%	0.28	0.32	1.13
C19	Hexagon	16%	6	6	12	6	12	6	0%	60%	42%	22%	22%	54%	0.28	0.32	1.13
C81	Hexagon	68%	6	6	12	6	12	6	0%	23%	16%	27%	27%	20%	0.28	0.32	1.13
C82	Hexagon	36%	6	6	12	6	12	6	0%	46%	32%	24%	24%	41%	0.28	0.32	1.13
C83	Hexagon	36%	6	6	12	6	12	6	0%	46%	32%	24%	24%	41%	0.28	0.32	1.13
C84	Hexagon	52%	6	6	12	6	12	6	0%	34%	24%	26%	25%	31%	0.28	0.32	1.13
C85	Hexagon	22%	6	6	12	6	12	6	0%	56%	39%	23%	22%	50%	0.28	0.32	1.13
C91	Hexagon	69%	6	6	12	6	12	6	0%	22%	16%	27%	27%	20%	0.28	0.32	1.13
C82	Hexagon	53%	6	6	12	6	12	6	0%	34%	23%	26%	25%	30%	0.28	0.32	1.13
C83	Hexagon	37%	6	6	12	6	12	6	0%	45%	31%	24%	24%	40%	0.28	0.32	1.13
C84	Hexagon	10%	6	6	12	6	12	6	0%	65%	45%	22%	21%	58%	0.28	0.32	1.13
C85	Hexagon	32%	6	6	12	6	12	6	0%	49%	34%	24%	23%	44%	0.28	0.32	1.13
C86	Hexagon	47%	6	6	12	6	12	6	0%	38%	26%	25%	25%	34%	0.28	0.32	1.13
C101	Parallelogram	63%	6	6	12	6	12	6	0%	27%	18%	27%	26%	24%	0.28	0.32	1.13
C102	Parallelogram	30%	6	6	12	6	12	6	0%	50%	35%	24%	23%	45%	0.28	0.32	1.13
C103	Parallelogram	37%	6	6	12	6	12	6	0%	46%	32%	24%	24%	41%	0.28	0.32	1.13
C104	Parallelogram	32%	6	6	12	6	12	6	0%	49%	34%	24%	23%	44%	0.28	0.32	1.13
C105	Parallelogram	23%	6	6	12	6	12	6	0%	55%	38%	23%	22%	49%	0.28	0.32	1.13
C106	Parallelogram	50%	6	6	12	6	12	6	0%	36%	25%	25%	25%	32%	0.28	0.32	1.13
C111	Parallelogram	53%	6	6	12	6	12	6	0%	34%	23%	26%	25%	30%	0.28	0.32	1.13
C112	Parallelogram	40%	6	6	12	6	12	6	0%	43%	30%	25%	24%	38%	0.28	0.32	1.13
C113	Parallelogram	43%	6	6	12	6	12	6	0%	41%	28%	25%	24%	36%	0.28	0.32	1.13
C114	Parallelogram	27%	6	6	12	6	12	6	0%	53%	37%	23%	23%	47%	0.28	0.32	1.13
C115	Parallelogram	40%	6	6	12	6	12	6	0%	43%	30%	25%	24%	38%	0.28	0.32	1.13
C116	Parallelogram	27%	6	6	12	6	12	6	0%	53%	37%	23%	23%	47%	0.28	0.32	1.13

LLSL3

Panel Layers LowIron-LowIron-Spacer-LowIron-Spacer-LowIron			Layers						UV %	Visible Light Transmittance	Total Solar Transmittance	Visible Reflectance		Solar Heat Gain Coefficient	U-Value (BTU/hrft2F)		Light to Solar Gain
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime	
Non-Active	Any Shape	0%	3	3	12	3	12	3	0%	77%	69%	21%	21%	72%	0.29	0.32	1.07
A1	Rectangle	92%	3	3	12	3	12	3	0%	6%	6%	29%	29%	6%	0.29	0.32	1.07
A2	Rectangle	61%	3	3	12	3	12	3	0%	30%	27%	27%	27%	28%	0.29	0.32	1.07
A3	Rectangle	61%	3	3	12	3	12	3	0%	30%	27%	27%	27%	28%	0.29	0.32	1.07
A4	Rectangle	31%	3	3	12	3	12	3	0%	53%	48%	24%	24%	50%	0.29	0.32	1.07
A5	Rectangle	31%	3	3	12	3	12	3	0%	53%	48%	24%	24%	50%	0.29	0.32	1.07
A6	Rectangle	15%	3	3	12	3	12	3	0%	65%	58%	22%	22%	61%	0.29	0.32	1.07
A7	Rectangle	31%	3	3	12	3	12	3	0%	53%	48%	24%	24%	50%	0.29	0.32	1.07
A8	Rectangle	46%	3	3	12	3	12	3	0%	42%	37%	25%	25%	39%	0.29	0.32	1.07
A21	Rectangle	76%	3	3	12	3	12	3	0%	18%	16%	28%	28%	17%	0.29	0.32	1.07
A22	Rectangle	38%	3	3	12	3	12	3	0%	48%	43%	24%	24%	44%	0.29	0.32	1.07
A23	Rectangle	15%	3	3	12	3	12	3	0%	65%	58%	22%	22%	61%	0.29	0.32	1.07
A24	Rectangle	46%	3	3	12	3	12	3	0%	42%	37%	25%	25%	39%	0.29	0.32	1.07
A25	Rectangle	31%	3	3	12	3	12	3	0%	53%	48%	24%	24%	50%	0.29	0.32	1.07
A26	Rectangle	15%	3	3	12	3	12	3	0%	65%	58%	22%	22%	61%	0.29	0.32	1.07
A27	Rectangle	23%	3	3	12	3	12	3	0%	59%	53%	23%	23%	55%	0.29	0.32	1.07
A31	Rectangle	31%	3	3	12	3	12	3	0%	53%	48%	24%	24%	50%	0.29	0.32	1.07
A32	Rectangle	20%	3	3	12	3	12	3	0%	61%	55%	23%	23%	57%	0.29	0.32	1.07
A33	Rectangle	10%	3	3	12	3	12	3	0%	69%	62%	22%	22%	62%	0.29	0.32	1.07
A34	Rectangle	5%	3	3	12	3	12	3	0%	73%	65%	21%	21%	68%	0.29	0.32	1.07
A41	Rectangle	74%	3	3	12	3	12	3	0%	20%	18%	28%	28%	19%	0.29	0.32	1.07
A42	Rectangle	47%	3	3	12	3	12	3	0%	41%	36%	25%	25%	38%	0.29	0.32	1.07
A43	Rectangle	14%	3	3	12	3	12	3	0%	66%	59%	22%	22%	62%	0.29	0.32	1.07
A44	Rectangle	10%	3	3	12	3	12	3	0%	69%	62%	22%	22%	65%	0.29	0.32	1.07
A45	Rectangle	43%	3	3	12	3	12	3	0%	44%	39%	25%	25%	41%	0.29	0.32	1.07
A46	Rectangle	60%	3	3	12	3	12	3	0%	31%	28%	26%	26%	29%	0.29	0.32	1.07
A51	Rectangle	57%	3	3	12	3	12	3	0%	33%	29%	26%	26%	31%	0.29	0.32	1.07
A52	Rectangle	27%	3	3	12	3	12	3	0%	56%	51%	23%	23%	53%	0.29	0.32	1.07
A53	Rectangle	22%	3	3	12	3	12	3	0%	60%	54%	23%	23%	56%	0.29	0.32	1.07
A54	Rectangle	87%	3	3	12	3	12	3	0%	10%	9%	29%	29%	10%	0.29	0.32	1.07
A55	Rectangle	69%	3	3	12	3	12	3	0%	24%	22%	27%	27%	22%	0.29	0.32	1.07
A56	Rectangle	61%	3	3	12	3	12	3	0%	30%	27%	27%	27%	28%	0.29	0.32	1.07
A111	Rectangle	46%	3	3	12	3	12	3	0%	42%	37%	25%	25%	39%	0.29	0.32	1.07
A112	Rectangle	23%	3	3	12	3	12	3	0%	59%	53%	23%	23%	55%	0.29	0.32	1.07
A113	Rectangle	23%	3	3	12	3	12	3	0%	59%	53%	23%	23%	55%	0.29	0.32	1.07
A114	Rectangle	23%	3	3	12	3	12	3	0%	59%	53%	23%	23%	55%	0.29	0.32	1.07
A115	Rectangle	11%	3	3	12	3	12	3	0%	68%	61%	22%	22%	64%	0.29	0.32	1.07
A116	Rectangle	34%	3	3	12	3	12	3	0%	51%	45%	24%	24%	47%	0.29	0.32	1.07
A121	Rectangle	36%	3	3	12	3	12	3	0%	50%	44%	24%	24%	46%	0.29	0.32	1.07
A122	Rectangle	15%	3	3	12	3	12	3	0%	65%	58%	22%	22%	61%	0.29	0.32	1.07
A123	Rectangle	20%	3	3	12	3	12	3	0%	61%	55%	23%	23%	57%	0.29	0.32	1.07
A124	Rectangle	36%	3	3	12	3	12	3	0%	50%	44%	24%	24%	46%	0.29	0.32	1.07
A125	Rectangle	25%	3	3	12	3	12	3	0%	57%	51%	23%	23%	54%	0.29	0.32	1.07
A126	Rectangle	18%	3	3	12	3	12	3	0%	63%	57%	23%	23%	59%	0.29	0.32	1.07
A127	Rectangle	18%	3	3	12	3	12	3	0%	63%	57%	23%	23%	59%	0.29	0.32	1.07
A128	Rectangle	8%	3	3	12	3	12	3	0%	71%	64%	22%	22%	66%	0.29	0.32	1.07
B1	Rectangle-Half S	87%	3	3	12	3	12	3	0%	10%	9%	29%	29%	9%	0.29	0.32	1.07
B2	Rectangle-Half S	58%	3	3	12	3	12	3	0%	32%	29%	26%	26%	30%	0.29	0.32	1.07
B3	Rectangle-Half S	58%	3	3	12	3	12	3	0%	32%	29%	26%	26%	30%	0.29	0.32	1.07
B4	Rectangle-Half S	29%	3	3	12	3	12	3	0%	55%	49%	24%	24%	51%	0.29	0.32	1.07
B5	Rectangle-Half S	29%	3	3	12	3	12	3	0%	55%	49%	24%	24%	51%	0.29	0.32	1.07
B6	Rectangle-Half S	15%	3	3	12	3	12	3	0%	66%	59%	22%	22%	62%	0.29	0.32	1.07
B7	Rectangle-Half S	29%	3	3	12	3	12	3	0%	55%	49%	24%	24%	51%	0.29	0.32	1.07
B8	Rectangle-Half S	44%	3	3	12	3	12	3	0%	43%	39%	25%	25%	41%	0.29	0.32	1.07
B21	Rectangle-Half S	73%	3	3	12	3	12	3	0%	21%	19%	28%	28%	20%	0.29	0.32	1.07
B22	Rectangle-Half S	44%	3	3	12	3	12	3	0%	43%	39%	25%	25%	41%	0.29	0.32	1.07
B23	Rectangle-Half S	15%	3	3	12	3	12	3	0%	60%	55%	22%	22%	62%	0.29	0.32	1.07
B24	Rectangle-Half S	58%	3	3	12	3	12	3	0%	32%	29%	26%	26%	30%	0.29	0.32	1.07
B25	Rectangle-Half S	29%	3	3	12	3	12	3	0%	55%	49%	24%	24%	51%	0.29	0.32	1.07
B26	Rectangle-Half S	44%	3	3	12	3	12	3	0%	43%	39%	25%	25%	41%	0.29	0.32	1.07
B31	Rectangle-Half S	39%	3	3	12	3	12	3	0%	47%	42%	24%	24%	44%	0.29	0.32	1.07
B32	Rectangle-Half S	19%	3	3	12	3	12	3	0%	62%	56%	23%	23%	58%	0.29	0.32	1.07
B33	Rectangle-Half S	39%	3	3	12	3	12	3	0%	47%	42%	24%	24%	44%	0.29	0.32	1.07
B34	Rectangle-Half S	19%	3	3	12	3	12	3	0%	62%	56%	23%	23%	58%	0.29	0.32	1.07
B35	Rectangle-Half S	10%	3	3	12	3	12	3	0%	70%	62%	22%	22%	65%	0.29	0.32	1.07
B36	Rectangle-Half S	32%	3	3	12	3	12	3	0%	53%	47%	24%	24%	49%	0.29	0.32	1.07
C11	Circle	60%	3	3	12	3	12	3	0%	31%	28%	26%	26%	29%	0.29	0.32	1.07
C12	Circle	40%	3	3	12	3	12	3	0%	46%	41%	25%	25%	43%	0.29	0.32	1.07
C13	Circle	20%	3	3	12	3	12	3	0%	62%	55%	23%	23%	58%	0.29	0.32	1.07
C21	Circle	78%	3	3	12	3	12	3	0%	17%	15%	28%	28%	16%	0.29	0.32	1.07
C22	Circle	79%	3	3	12	3	12	3	0%	16%	14%	28%	28%	15%	0.29	0.32	1.07
C23	Circle	42%	3	3	12	3	12	3	0%	44%	40%	25%	25%	41%	0.29	0.32	1.07
C24	Circle	38%	3	3	12	3	12	3	0%	47%	43%	24%	24%	44%	0.29	0.32	1.07
C25	Circle	65%	3	3	12	3	12	3	0%	27%	24%	27%	27%	25%	0.29	0.32	1.07
C31	Circle	70%	3	3	12	3	12	3	0%	23%	21%	27%	27%	22%	0.29	0.32	1.07
C32	Circle	57%	3	3	12	3	12	3	0%	33%	30%	26%	26%	31%	0.29	0.32	1.07
C33	Circle	35%	3	3	12	3	12	3	0%	50%	45%	24%	24%	47%	0.29	0.32	1.07
C34	Circle	63%	3	3	12	3	12	3	0%	29%	26%	27%	27%	27%	0.29	0.32	1.07
C35	Circle	40%	3	3	12	3	12	3	0%	46%	41%	25%	25%	43%	0.29	0.32	1.07
C36	Circle	20%	3	3	12	3	12	3	0%	61%	55%	23%	23%	57%	0.29	0.32	1.07
C41	Circle	52%	3	3	12	3	12	3	0%	37%	33%	26%	26%	34%	0.29	0.32	1.07
C42	Circle	34%	3	3	12	3	12	3	0%	51%	45%	24%	24%	47%	0.29	0.32	1.07
C43	Circle	44%	3	3	12	3	12	3	0%	43%	39%	25%	25%	40%	0.29	0.32	1.07
C51	Circle	54%	3	3	12	3	12	3	0%	36%	32%	26%	26%	32%	0.29	0.32	1.07
C52	Circle	44%	3	3	12	3	12	3	0%	43%	39%	25%	25%	40%	0.29	0.32	1.07
C53	Circle	46%	3	3	12	3	12	3	0%	42%	37%	25%	25%	39%	0.29	0.32	1.07
C54	Circle	49%	3	3	12	3	12	3	0%	39%	35%	25%	25%	37%	0.29	0.32	1.07
C55	Circle	36%	3	3	12	3	12	3	0%	49%	44%	24%	24%	44%	0.29	0.32	1.07
C14	Triangle	51%	3	3	12	3	12	3	0%	38%	34%	26%	26%	35%	0.29	0.32	1.07
C15	Triangle	36%	3	3	12	3	12	3	0%	50%	44%	24%	24%	44%	0.29	0.32	1.07
C16	Triangle	31%	3	3	12	3	12	3	0%	53%	48%	24%	24%	50%			

LLSLSL3

Panel Layers LowIron-LowIron-Spacer-LowIron-Spacer-LowIron			Layers						UV %	Visible Light Transmittance	Total Solar Transmittance	Visible Reflectance		Solar Heat Gain Coefficient	U-Value (BTU/hrft2F)		Light to Solar Gain
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime	
C74	Triangle	47%	3	3	12	3	12	3	0%	41%	36%	25%	25%	38%	0.29	0.32	1.07
C75	Triangle	37%	3	3	12	3	12	3	0%	49%	44%	24%	24%	45%	0.29	0.32	1.07
C76	Triangle	41%	3	3	12	3	12	3	0%	45%	40%	25%	25%	42%	0.29	0.32	1.07
C17	Hexagon	48%	3	3	12	3	12	3	0%	40%	36%	25%	25%	37%	0.29	0.32	1.07
C18	Hexagon	32%	3	3	12	3	12	3	0%	52%	47%	24%	24%	49%	0.29	0.32	1.07
C19	Hexagon	16%	3	3	12	3	12	3	0%	65%	58%	22%	22%	60%	0.29	0.32	1.07
C81	Hexagon	66%	3	3	12	3	12	3	0%	25%	22%	27%	27%	23%	0.29	0.32	1.07
C82	Hexagon	36%	3	3	12	3	12	3	0%	49%	44%	24%	24%	46%	0.29	0.32	1.07
C83	Hexagon	36%	3	3	12	3	12	3	0%	49%	44%	24%	24%	46%	0.29	0.32	1.07
C84	Hexagon	52%	3	3	12	3	12	3	0%	37%	33%	26%	26%	34%	0.29	0.32	1.07
C85	Hexagon	22%	3	3	12	3	12	3	0%	60%	54%	23%	23%	56%	0.29	0.32	1.07
C91	Hexagon	69%	3	3	12	3	12	3	0%	24%	21%	27%	27%	22%	0.29	0.32	1.07
C92	Hexagon	53%	3	3	12	3	12	3	0%	36%	32%	26%	26%	34%	0.29	0.32	1.07
C93	Hexagon	37%	3	3	12	3	12	3	0%	48%	43%	24%	24%	45%	0.29	0.32	1.07
C94	Hexagon	10%	3	3	12	3	12	3	0%	69%	62%	22%	22%	65%	0.29	0.32	1.07
C95	Hexagon	32%	3	3	12	3	12	3	0%	53%	47%	24%	24%	49%	0.29	0.32	1.07
C96	Hexagon	47%	3	3	12	3	12	3	0%	41%	36%	25%	25%	38%	0.29	0.32	1.07
C101	Parallelogram	63%	3	3	12	3	12	3	0%	28%	25%	27%	27%	27%	0.29	0.32	1.07
C102	Parallelogram	30%	3	3	12	3	12	3	0%	54%	48%	24%	24%	50%	0.29	0.32	1.07
C103	Parallelogram	37%	3	3	12	3	12	3	0%	49%	44%	24%	24%	46%	0.29	0.32	1.07
C104	Parallelogram	32%	3	3	12	3	12	3	0%	53%	47%	24%	24%	49%	0.29	0.32	1.07
C105	Parallelogram	23%	3	3	12	3	12	3	0%	59%	53%	23%	23%	55%	0.29	0.32	1.07
C106	Parallelogram	50%	3	3	12	3	12	3	0%	39%	35%	25%	25%	36%	0.29	0.32	1.07
C111	Parallelogram	53%	3	3	12	3	12	3	0%	36%	32%	26%	26%	34%	0.29	0.32	1.07
C112	Parallelogram	40%	3	3	12	3	12	3	0%	46%	41%	25%	25%	43%	0.29	0.32	1.07
C113	Parallelogram	43%	3	3	12	3	12	3	0%	44%	39%	25%	25%	41%	0.29	0.32	1.07
C114	Parallelogram	27%	3	3	12	3	12	3	0%	57%	51%	23%	23%	53%	0.29	0.32	1.07
C115	Parallelogram	40%	3	3	12	3	12	3	0%	46%	41%	25%	25%	43%	0.29	0.32	1.07
C116	Parallelogram	27%	3	3	12	3	12	3	0%	57%	51%	23%	23%	53%	0.29	0.32	1.07

LLSLSL4

Panel Layers Lowiron-Lowiron-Spacer-Lowiron-Spacer-Lowiron			Layers						UV %	Visible Light Transmittance	Total Solar Transmittance	Visible Reflectance		Solar Heat Gain Coefficient	U-Value (BTU/hrft²)		Light to Solar Gain
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime	
Non-Active	Any Shape	0%	4	4	12	4	12	4	1%	77%	68%	21%	21%	71%	0.28	0.32	1.08
A1	Rectangle	92%	4	4	12	4	12	4	0%	6%	6%	29%	29%	6%	0.28	0.32	1.08
A2	Rectangle	61%	4	4	12	4	12	4	0%	30%	28%	27%	27%	28%	0.28	0.32	1.08
A3	Rectangle	61%	4	4	12	4	12	4	0%	30%	28%	27%	27%	28%	0.28	0.32	1.08
A4	Rectangle	31%	4	4	12	4	12	4	1%	53%	47%	24%	24%	49%	0.28	0.32	1.08
A5	Rectangle	31%	4	4	12	4	12	4	1%	53%	47%	24%	24%	49%	0.28	0.32	1.08
A6	Rectangle	15%	4	4	12	4	12	4	1%	65%	58%	22%	22%	60%	0.28	0.32	1.08
A7	Rectangle	31%	4	4	12	4	12	4	1%	53%	47%	24%	24%	49%	0.28	0.32	1.08
A8	Rectangle	46%	4	4	12	4	12	4	1%	42%	37%	25%	25%	38%	0.28	0.32	1.08
A21	Rectangle	76%	4	4	12	4	12	4	0%	18%	16%	28%	28%	17%	0.28	0.32	1.08
A22	Rectangle	38%	4	4	12	4	12	4	1%	48%	42%	24%	24%	44%	0.28	0.32	1.08
A23	Rectangle	15%	4	4	12	4	12	4	1%	65%	58%	22%	22%	60%	0.28	0.32	1.08
A24	Rectangle	46%	4	4	12	4	12	4	1%	42%	37%	25%	25%	38%	0.28	0.32	1.08
A25	Rectangle	31%	4	4	12	4	12	4	1%	53%	47%	24%	24%	49%	0.28	0.32	1.08
A26	Rectangle	15%	4	4	12	4	12	4	1%	65%	58%	22%	22%	60%	0.28	0.32	1.08
A27	Rectangle	23%	4	4	12	4	12	4	1%	59%	52%	23%	23%	55%	0.28	0.32	1.08
A31	Rectangle	31%	4	4	12	4	12	4	1%	53%	47%	24%	24%	49%	0.28	0.32	1.08
A32	Rectangle	20%	4	4	12	4	12	4	1%	61%	54%	23%	23%	57%	0.28	0.32	1.08
A33	Rectangle	10%	4	4	12	4	12	4	1%	69%	61%	22%	22%	64%	0.28	0.32	1.08
A34	Rectangle	5%	4	4	12	4	12	4	1%	73%	65%	21%	21%	67%	0.28	0.32	1.08
A41	Rectangle	74%	4	4	12	4	12	4	0%	20%	18%	28%	28%	19%	0.28	0.32	1.08
A42	Rectangle	47%	4	4	12	4	12	4	1%	41%	36%	25%	25%	36%	0.28	0.32	1.08
A43	Rectangle	14%	4	4	12	4	12	4	1%	66%	58%	22%	22%	61%	0.28	0.32	1.08
A44	Rectangle	10%	4	4	12	4	12	4	1%	69%	61%	22%	22%	64%	0.28	0.32	1.08
A45	Rectangle	43%	4	4	12	4	12	4	1%	44%	39%	25%	25%	40%	0.28	0.32	1.08
A46	Rectangle	60%	4	4	12	4	12	4	0%	31%	27%	26%	26%	28%	0.28	0.32	1.08
A51	Rectangle	57%	4	4	12	4	12	4	0%	33%	29%	26%	26%	30%	0.28	0.32	1.08
A52	Rectangle	27%	4	4	12	4	12	4	1%	56%	50%	23%	23%	52%	0.28	0.32	1.08
A53	Rectangle	22%	4	4	12	4	12	4	1%	60%	53%	23%	23%	56%	0.28	0.32	1.08
A54	Rectangle	87%	4	4	12	4	12	4	0%	10%	9%	29%	29%	9%	0.28	0.32	1.08
A55	Rectangle	69%	4	4	12	4	12	4	0%	24%	21%	27%	27%	22%	0.28	0.32	1.08
A56	Rectangle	61%	4	4	12	4	12	4	0%	30%	28%	27%	27%	28%	0.28	0.32	1.08
A111	Rectangle	46%	4	4	12	4	12	4	1%	42%	37%	25%	25%	38%	0.28	0.32	1.08
A112	Rectangle	23%	4	4	12	4	12	4	1%	59%	52%	23%	23%	55%	0.28	0.32	1.08
A113	Rectangle	23%	4	4	12	4	12	4	1%	59%	52%	23%	23%	55%	0.28	0.32	1.08
A114	Rectangle	23%	4	4	12	4	12	4	1%	59%	52%	23%	23%	55%	0.28	0.32	1.08
A115	Rectangle	11%	4	4	12	4	12	4	1%	68%	60%	22%	22%	63%	0.28	0.32	1.08
A116	Rectangle	34%	4	4	12	4	12	4	1%	51%	45%	24%	24%	47%	0.28	0.32	1.08
A121	Rectangle	36%	4	4	12	4	12	4	1%	50%	44%	24%	24%	46%	0.28	0.32	1.08
A122	Rectangle	15%	4	4	12	4	12	4	1%	65%	58%	22%	22%	60%	0.28	0.32	1.08
A123	Rectangle	20%	4	4	12	4	12	4	1%	61%	54%	23%	23%	57%	0.28	0.32	1.08
A124	Rectangle	36%	4	4	12	4	12	4	1%	50%	44%	24%	24%	46%	0.28	0.32	1.08
A125	Rectangle	25%	4	4	12	4	12	4	1%	57%	51%	23%	23%	53%	0.28	0.32	1.08
A126	Rectangle	18%	4	4	12	4	12	4	1%	63%	56%	23%	23%	58%	0.28	0.32	1.08
A127	Rectangle	18%	4	4	12	4	12	4	1%	63%	56%	23%	23%	58%	0.28	0.32	1.08
A128	Rectangle	8%	4	4	12	4	12	4	1%	71%	63%	22%	22%	66%	0.28	0.32	1.08
B1	Rectangle-Half S	87%	4	4	12	4	12	4	0%	10%	9%	29%	29%	9%	0.28	0.32	1.08
B2	Rectangle-Half S	58%	4	4	12	4	12	4	0%	32%	28%	26%	26%	30%	0.28	0.32	1.08
B3	Rectangle-Half S	58%	4	4	12	4	12	4	0%	32%	28%	26%	26%	30%	0.28	0.32	1.08
B4	Rectangle-Half S	29%	4	4	12	4	12	4	1%	55%	48%	24%	24%	50%	0.28	0.32	1.08
B5	Rectangle-Half S	29%	4	4	12	4	12	4	1%	55%	48%	24%	24%	50%	0.28	0.32	1.08
B6	Rectangle-Half S	15%	4	4	12	4	12	4	1%	66%	58%	22%	22%	61%	0.28	0.32	1.08
B7	Rectangle-Half S	29%	4	4	12	4	12	4	1%	55%	48%	24%	24%	50%	0.28	0.32	1.08
B8	Rectangle-Half S	44%	4	4	12	4	12	4	1%	43%	38%	25%	25%	40%	0.28	0.32	1.08
B21	Rectangle-Half S	73%	4	4	12	4	12	4	0%	21%	18%	28%	28%	19%	0.28	0.32	1.08
B22	Rectangle-Half S	44%	4	4	12	4	12	4	1%	43%	38%	25%	25%	40%	0.28	0.32	1.08
B23	Rectangle-Half S	15%	4	4	12	4	12	4	1%	66%	58%	22%	22%	61%	0.28	0.32	1.08
B24	Rectangle-Half S	58%	4	4	12	4	12	4	0%	32%	28%	26%	26%	30%	0.28	0.32	1.08
B25	Rectangle-Half S	29%	4	4	12	4	12	4	1%	55%	48%	24%	24%	50%	0.28	0.32	1.08
B26	Rectangle-Half S	44%	4	4	12	4	12	4	1%	43%	38%	25%	25%	40%	0.28	0.32	1.08
B31	Rectangle-Half S	39%	4	4	12	4	12	4	1%	47%	42%	24%	24%	43%	0.28	0.32	1.08
B32	Rectangle-Half S	19%	4	4	12	4	12	4	1%	62%	55%	23%	23%	57%	0.28	0.32	1.08
B33	Rectangle-Half S	39%	4	4	12	4	12	4	1%	47%	42%	24%	24%	43%	0.28	0.32	1.08
B34	Rectangle-Half S	19%	4	4	12	4	12	4	1%	62%	55%	23%	23%	57%	0.28	0.32	1.08
B35	Rectangle-Half S	10%	4	4	12	4	12	4	1%	70%	61%	22%	22%	64%	0.28	0.32	1.08
B36	Rectangle-Half S	32%	4	4	12	4	12	4	1%	53%	47%	24%	24%	49%	0.28	0.32	1.08
C11	Circle	60%	4	4	12	4	12	4	0%	31%	27%	26%	26%	28%	0.28	0.32	1.08
C12	Circle	40%	4	4	12	4	12	4	1%	46%	41%	25%	25%	43%	0.28	0.32	1.08
C13	Circle	20%	4	4	12	4	12	4	1%	62%	54%	23%	23%	57%	0.28	0.32	1.08
C21	Circle	78%	4	4	12	4	12	4	0%	17%	15%	28%	28%	15%	0.28	0.32	1.08
C22	Circle	79%	4	4	12	4	12	4	0%	16%	14%	28%	28%	15%	0.28	0.32	1.08
C23	Circle	42%	4	4	12	4	12	4	1%	44%	39%	25%	25%	41%	0.28	0.32	1.08
C24	Circle	38%	4	4	12	4	12	4	1%	47%	42%	24%	24%	44%	0.28	0.32	1.08
C25	Circle	65%	4	4	12	4	12	4	0%	27%	24%	27%	27%	25%	0.28	0.32	1.08
C31	Circle	70%	4	4	12	4	12	4	0%	23%	20%	27%	27%	21%	0.28	0.32	1.08
C32	Circle	57%	4	4	12	4	12	4	0%	33%	29%	26%	26%	30%	0.28	0.32	1.08
C33	Circle	35%	4	4	12	4	12	4	1%	50%	44%	24%	24%	46%	0.28	0.32	1.08
C34	Circle	63%	4	4	12	4	12	4	0%	29%	25%	27%	27%	28%	0.28	0.32	1.08
C35	Circle	40%	4	4	12	4	12	4	1%	46%	41%	25%	25%	43			

LLSLSL4

Panel Layers LowIron-LowIron-Spacer-LowIron-Spacer-LowIron			Layers						UV %	Visible Light Transmittance	Total Solar Transmittance	Visible Reflectance		Solar Heat Gain Coefficient	U-Value (BTU/hrft2F)		Light to Solar Gain
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime	
C74	Triangle	47%	4	4	12	4	12	4	1%	41%	36%	25%	25%	37%	0.28	0.32	1.08
C75	Triangle	37%	4	4	12	4	12	4	1%	49%	43%	24%	24%	45%	0.28	0.32	1.08
C76	Triangle	41%	4	4	12	4	12	4	1%	45%	40%	25%	25%	42%	0.28	0.32	1.08
C17	Hexagon	48%	4	4	12	4	12	4	1%	40%	35%	25%	25%	37%	0.28	0.32	1.08
C18	Hexagon	32%	4	4	12	4	12	4	1%	52%	46%	24%	24%	48%	0.28	0.32	1.08
C19	Hexagon	16%	4	4	12	4	12	4	1%	65%	57%	22%	22%	60%	0.28	0.32	1.08
C81	Hexagon	68%	4	4	12	4	12	4	0%	25%	22%	27%	27%	22%	0.28	0.32	1.08
C82	Hexagon	36%	4	4	12	4	12	4	1%	49%	43%	24%	24%	45%	0.28	0.32	1.08
C83	Hexagon	36%	4	4	12	4	12	4	1%	49%	43%	24%	24%	45%	0.28	0.32	1.08
C84	Hexagon	52%	4	4	12	4	12	4	0%	37%	32%	26%	26%	34%	0.28	0.32	1.08
C85	Hexagon	22%	4	4	12	4	12	4	1%	60%	53%	23%	23%	56%	0.28	0.32	1.08
C91	Hexagon	69%	4	4	12	4	12	4	0%	24%	21%	27%	27%	22%	0.28	0.32	1.08
C92	Hexagon	53%	4	4	12	4	12	4	0%	36%	32%	26%	26%	33%	0.28	0.32	1.08
C93	Hexagon	37%	4	4	12	4	12	4	1%	48%	43%	24%	24%	44%	0.28	0.32	1.08
C94	Hexagon	10%	4	4	12	4	12	4	1%	69%	61%	22%	22%	64%	0.28	0.32	1.08
C95	Hexagon	32%	4	4	12	4	12	4	1%	53%	47%	24%	24%	49%	0.28	0.32	1.08
C96	Hexagon	47%	4	4	12	4	12	4	1%	41%	36%	25%	25%	37%	0.28	0.32	1.08
C101	Parallelogram	63%	4	4	12	4	12	4	0%	28%	25%	27%	27%	26%	0.28	0.32	1.08
C102	Parallelogram	30%	4	4	12	4	12	4	1%	54%	48%	24%	24%	50%	0.28	0.32	1.08
C103	Parallelogram	37%	4	4	12	4	12	4	1%	49%	43%	24%	24%	45%	0.28	0.32	1.08
C104	Parallelogram	32%	4	4	12	4	12	4	1%	53%	47%	24%	24%	49%	0.28	0.32	1.08
C105	Parallelogram	23%	4	4	12	4	12	4	1%	59%	52%	23%	23%	54%	0.28	0.32	1.08
C106	Parallelogram	50%	4	4	12	4	12	4	1%	39%	34%	25%	25%	36%	0.28	0.32	1.08
C111	Parallelogram	53%	4	4	12	4	12	4	0%	36%	32%	26%	26%	33%	0.28	0.32	1.08
C112	Parallelogram	40%	4	4	12	4	12	4	1%	46%	41%	25%	25%	43%	0.28	0.32	1.08
C113	Parallelogram	43%	4	4	12	4	12	4	1%	44%	39%	25%	25%	40%	0.28	0.32	1.08
C114	Parallelogram	27%	4	4	12	4	12	4	1%	57%	50%	23%	23%	52%	0.28	0.32	1.08
C115	Parallelogram	40%	4	4	12	4	12	4	1%	46%	41%	25%	25%	43%	0.28	0.32	1.08
C116	Parallelogram	27%	4	4	12	4	12	4	1%	57%	50%	23%	23%	52%	0.28	0.32	1.08

LLSLSL6

Panel Layers LowIron-LowIron-Spacer-LowIron-Spacer-LowIron			Layers						UV %	Visible Light Transmittance	Total Solar Transmittance	Visible Reflectance		Solar Heat Gain Coefficient	U-Value (BTU/hrft ²)		Light to Solar Gain
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime	
Non-Active	Any Shape	0%	6	6	12	6	12	6	0%	77%	66%	21%	21%	70%	0.28	0.32	1.10
A1	Rectangle	92%	6	6	12	6	12	6	0%	6%	5%	29%	29%	6%	0.28	0.32	1.10
A2	Rectangle	61%	6	6	12	6	12	6	0%	30%	26%	27%	27%	27%	0.28	0.32	1.10
A3	Rectangle	61%	6	6	12	6	12	6	0%	30%	26%	27%	27%	27%	0.28	0.32	1.10
A4	Rectangle	31%	6	6	12	6	12	6	0%	53%	46%	24%	24%	49%	0.28	0.32	1.10
A5	Rectangle	31%	6	6	12	6	12	6	0%	53%	46%	24%	24%	49%	0.28	0.32	1.10
A6	Rectangle	15%	6	6	12	6	12	6	0%	65%	56%	22%	22%	59%	0.28	0.32	1.10
A7	Rectangle	31%	6	6	12	6	12	6	0%	53%	46%	24%	24%	49%	0.28	0.32	1.10
A8	Rectangle	46%	6	6	12	6	12	6	0%	42%	36%	25%	25%	38%	0.28	0.32	1.10
A21	Rectangle	76%	6	6	12	6	12	6	0%	18%	16%	28%	28%	16%	0.28	0.32	1.10
A22	Rectangle	38%	6	6	12	6	12	6	0%	48%	41%	24%	24%	43%	0.28	0.32	1.10
A23	Rectangle	15%	6	6	12	6	12	6	0%	65%	56%	22%	22%	59%	0.28	0.32	1.10
A24	Rectangle	46%	6	6	12	6	12	6	0%	42%	36%	25%	25%	38%	0.28	0.32	1.10
A25	Rectangle	31%	6	6	12	6	12	6	0%	53%	46%	24%	24%	49%	0.28	0.32	1.10
A26	Rectangle	15%	6	6	12	6	12	6	0%	65%	56%	22%	22%	59%	0.28	0.32	1.10
A27	Rectangle	23%	6	6	12	6	12	6	0%	59%	51%	23%	23%	54%	0.28	0.32	1.10
A31	Rectangle	31%	6	6	12	6	12	6	0%	53%	46%	24%	24%	49%	0.28	0.32	1.10
A32	Rectangle	20%	6	6	12	6	12	6	0%	61%	53%	23%	23%	56%	0.28	0.32	1.10
A33	Rectangle	10%	6	6	12	6	12	6	0%	69%	59%	22%	22%	63%	0.28	0.32	1.10
A34	Rectangle	5%	6	6	12	6	12	6	0%	73%	63%	21%	21%	66%	0.28	0.32	1.10
A41	Rectangle	74%	6	6	12	6	12	6	0%	20%	17%	28%	28%	18%	0.28	0.32	1.10
A42	Rectangle	47%	6	6	12	6	12	6	0%	41%	35%	25%	25%	37%	0.28	0.32	1.10
A43	Rectangle	14%	6	6	12	6	12	6	0%	66%	57%	22%	22%	60%	0.28	0.32	1.10
A44	Rectangle	10%	6	6	12	6	12	6	0%	69%	59%	22%	22%	63%	0.28	0.32	1.10
A45	Rectangle	43%	6	6	12	6	12	6	0%	44%	37%	25%	25%	40%	0.28	0.32	1.10
A46	Rectangle	60%	6	6	12	6	12	6	0%	31%	26%	26%	26%	28%	0.28	0.32	1.10
A51	Rectangle	57%	6	6	12	6	12	6	0%	33%	28%	26%	26%	30%	0.28	0.32	1.10
A52	Rectangle	27%	6	6	12	6	12	6	0%	56%	48%	23%	23%	51%	0.28	0.32	1.10
A53	Rectangle	22%	6	6	12	6	12	6	0%	60%	52%	23%	23%	55%	0.28	0.32	1.10
A54	Rectangle	87%	6	6	12	6	12	6	0%	10%	9%	29%	29%	9%	0.28	0.32	1.10
A55	Rectangle	65%	6	6	12	6	12	6	0%	24%	21%	27%	27%	22%	0.28	0.32	1.10
A56	Rectangle	61%	6	6	12	6	12	6	0%	30%	26%	27%	27%	27%	0.28	0.32	1.10
A111	Rectangle	46%	6	6	12	6	12	6	0%	42%	36%	25%	25%	38%	0.28	0.32	1.10
A112	Rectangle	23%	6	6	12	6	12	6	0%	59%	51%	23%	23%	54%	0.28	0.32	1.10
A113	Rectangle	23%	6	6	12	6	12	6	0%	59%	51%	23%	23%	54%	0.28	0.32	1.10
A114	Rectangle	23%	6	6	12	6	12	6	0%	59%	51%	23%	23%	54%	0.28	0.32	1.10
A115	Rectangle	11%	6	6	12	6	12	6	0%	68%	58%	22%	22%	62%	0.28	0.32	1.10
A116	Rectangle	34%	6	6	12	6	12	6	0%	51%	43%	24%	24%	49%	0.28	0.32	1.10
A121	Rectangle	36%	6	6	12	6	12	6	0%	50%	42%	24%	24%	45%	0.28	0.32	1.10
A122	Rectangle	15%	6	6	12	6	12	6	0%	65%	56%	22%	22%	59%	0.28	0.32	1.10
A123	Rectangle	20%	6	6	12	6	12	6	0%	61%	53%	23%	23%	56%	0.28	0.32	1.10
A124	Rectangle	36%	6	6	12	6	12	6	0%	50%	42%	24%	24%	45%	0.28	0.32	1.10
A125	Rectangle	25%	6	6	12	6	12	6	0%	57%	49%	23%	23%	52%	0.28	0.32	1.10
A126	Rectangle	18%	6	6	12	6	12	6	0%	63%	54%	23%	23%	58%	0.28	0.32	1.10
A127	Rectangle	18%	6	6	12	6	12	6	0%	63%	54%	23%	23%	58%	0.28	0.32	1.10
A128	Rectangle	8%	6	6	12	6	12	6	0%	71%	61%	22%	22%	65%	0.28	0.32	1.10
B1	Rectangle-Half S	87%	6	6	12	6	12	6	0%	10%	8%	29%	29%	9%	0.28	0.32	1.10
B2	Rectangle-Half S	58%	6	6	12	6	12	6	0%	32%	28%	26%	26%	29%	0.28	0.32	1.10
B3	Rectangle-Half S	58%	6	6	12	6	12	6	0%	32%	28%	26%	26%	29%	0.28	0.32	1.10
B4	Rectangle-Half S	29%	6	6	12	6	12	6	0%	55%	47%	24%	24%	50%	0.28	0.32	1.10
B5	Rectangle-Half S	29%	6	6	12	6	12	6	0%	55%	47%	24%	24%	50%	0.28	0.32	1.10
B6	Rectangle-Half S	15%	6	6	12	6	12	6	0%	66%	56%	22%	22%	60%	0.28	0.32	1.10
B7	Rectangle-Half S	29%	6	6	12	6	12	6	0%	55%	47%	24%	24%	50%	0.28	0.32	1.10
B8	Rectangle-Half S	44%	6	6	12	6	12	6	0%	43%	37%	25%	25%	39%	0.28	0.32	1.10
B21	Rectangle-Half S	73%	6	6	12	6	12	6	0%	21%	18%	28%	28%	18%	0.28	0.32	1.10
B22	Rectangle-Half S	44%	6	6	12	6	12	6	0%	43%	37%	25%	25%	39%	0.28	0.32	1.10
B23	Rectangle-Half S	15%	6	6	12	6	12	6	0%	66%	56%	22%	22%	60%	0.28	0.32	1.10
B24	Rectangle-Half S	58%	6	6	12	6	12	6	0%	32%	28%	26%	26%	29%	0.28	0.32	1.10
B25	Rectangle-Half S	29%	6	6	12	6	12	6	0%	55%	47%	24%	24%	50%	0.28	0.32	1.10
B26	Rectangle-Half S	44%	6	6	12	6	12	6	0%	43%	37%	25%	25%	39%	0.28	0.32	1.10
B31	Rectangle-Half S	39%	6	6	12	6	12	6	0%	47%	40%	24%	24%	43%	0.28	0.32	1.10
B32	Rectangle-Half S	19%	6	6	12	6	12	6	0%	62%	53%	23%	23%	56%	0.28	0.32	1.10
B33	Rectangle-Half S	39%	6	6	12	6	12	6	0%	47%	40%	24%	24%	43%	0.28	0.32	1.10
B34	Rectangle-Half S	19%	6	6	12	6	12	6	0%	62%	53%	23%	23%	56%	0.28	0.32	1.10
B35	Rectangle-Half S	10%	6	6	12	6	12	6	0%	70%	60%	22%	22%	63%	0.28	0.32	1.10
B36	Rectangle-Half S	32%	6	6	12	6	12	6	0%	53%	45%	24%	24%	48%	0.28	0.32	1.10
C11	Circle	60%	6	6	12	6	12	6	0%	31%	26%	26%	26%	28%	0.28	0.32	1.10
C12	Circle	40%	6	6	12	6	12	6	0%	46%	40%	25%	25%	42%	0.28	0.32	1.10
C13	Circle	20%	6	6	12	6	12	6	0%	62%	53%	23%	23%	56%	0.28	0.32	1.10
C21	Circle	78%	6	6	12	6	12	6	0%	17%	14%	28%	28%	15%	0.28	0.32	1.10
C22	Circle	79%	6	6	12	6	12	6	0%	16%	14%	28%	28%	14%	0.28	0.32	1.10
C23	Circle	42%	6	6	12	6	12	6	0%	44%	38%	25%	25%	40%	0.28	0.32	1.10
C24	Circle	38%	6	6	12	6	12	6	0%	47%	41%	24%	24%	43%	0.28	0.32	1.10
C25	Circle	65%	6	6	12	6	12	6	0%	27%	23%	27%	27%	24%	0.28	0.32	1.10
C31	Circle	70%	6	6	12	6	12	6	0%	23%	20%	27%	27%	21%	0.28	0.32	1.10
C32	Circle	57%	6	6	12	6	12	6	0%	33%	28%	26%	26%	30%	0.28	0.32	1.10
C33	Circle	35%	6	6	12	6	12	6	0%	50%	43%	24%	24%	45%	0.28	0.32	1.10
C34	Circle	63%	6	6	12	6	12	6	0%	29%	25%	27%	27%	25%	0.28	0.32	1.10
C35	Circle	40%	6	6	12	6	12	6	0%	46%	40%	25%	25%	42%	0.28	0.32	1.10
C36	Circle	20%	6	6	12	6	12	6	0%	61%	53%	23%	23%	56%	0.28	0.32	1.10
C41	Circle	52%	6	6	12	6	12	6	0%	37%	32%	26%	26%	33%	0.28	0.32	1.10
C42	Circle	34%	6	6	12	6	12	6	0%	51%	43%	24%	24%	46%	0.28	0.32	1.10
C43	Circle	44%	6	6	12	6	12	6	0%	43%	37%	25%	25%	39%	0.28	0.32	1.10
C51	Circle	54%	6	6	12	6	12	6	0%	36%	30%	26%	26%	32%	0.28	0.32	1.10
C52	Circle	44%	6	6	12	6	12	6	0%	43%	37%	25%	25%	39%	0.28	0.32	1.10
C53	Circle	46%	6	6	12	6	12	6	0%	42%	36%	25%	25%	38%	0.28	0.32	1.10
C54	Circle	49%	6	6	12	6	12	6	0%	39%	34%	25%	25%	36%	0.28	0.32	1.10
C55	Circle	36%	6	6	12	6	12	6	0%	49%	42%	24%	24%	45%	0.28	0.32	1.10
C14	Triangle	51%	6	6	12	6	12	6	0%	38%	32%	26%	26%	34%	0.28	0.32	1.10
C15	Triangle	36%	6	6	12	6	12	6	0%	50%	42%	24%	24%	45%	0.28	0.32	1.10
C16	Triangle	31%	6	6	12	6	12	6	0%	53%	46%	24%	24%				

LLSLSL6

Panel Layers LowIron-LowIron-Spacer-LowIron-Spacer-LowIron			Layers						UV %	Visible Light Transmittance	Total Solar Transmittance	Visible Reflectance		Solar Heat Gain Coefficient	U-Value (BTU/hrft2F)		Light to Solar Gain
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime	
C74	Triangle	47%	6	6	12	6	12	6	0%	41%	35%	25%	25%	37%	0.28	0.32	1.10
C75	Triangle	37%	6	6	12	6	12	6	0%	49%	42%	24%	24%	44%	0.28	0.32	1.10
C76	Triangle	41%	6	6	12	6	12	6	0%	45%	39%	25%	25%	41%	0.28	0.32	1.10
C17	Hexagon	48%	6	6	12	6	12	6	0%	40%	34%	25%	25%	36%	0.28	0.32	1.10
C18	Hexagon	32%	6	6	12	6	12	6	0%	52%	45%	24%	24%	47%	0.28	0.32	1.10
C19	Hexagon	16%	6	6	12	6	12	6	0%	65%	59%	22%	22%	59%	0.28	0.32	1.10
C81	Hexagon	66%	6	6	12	6	12	6	0%	25%	21%	27%	27%	22%	0.28	0.32	1.10
C82	Hexagon	36%	6	6	12	6	12	6	0%	49%	42%	24%	24%	44%	0.28	0.32	1.10
C83	Hexagon	36%	6	6	12	6	12	6	0%	49%	42%	24%	24%	44%	0.28	0.32	1.10
C84	Hexagon	52%	6	6	12	6	12	6	0%	37%	32%	26%	26%	33%	0.28	0.32	1.10
C85	Hexagon	22%	6	6	12	6	12	6	0%	60%	52%	23%	23%	55%	0.28	0.32	1.10
C91	Hexagon	69%	6	6	12	6	12	6	0%	24%	20%	27%	27%	22%	0.28	0.32	1.10
C92	Hexagon	53%	6	6	12	6	12	6	0%	36%	31%	26%	26%	33%	0.28	0.32	1.10
C93	Hexagon	37%	6	6	12	6	12	6	0%	48%	41%	24%	24%	44%	0.28	0.32	1.10
C94	Hexagon	10%	6	6	12	6	12	6	0%	69%	59%	22%	22%	63%	0.28	0.32	1.10
C95	Hexagon	32%	6	6	12	6	12	6	0%	53%	45%	24%	24%	48%	0.28	0.32	1.10
C96	Hexagon	47%	6	6	12	6	12	6	0%	41%	35%	25%	25%	37%	0.28	0.32	1.10
C101	Parallelogram	63%	6	6	12	6	12	6	0%	28%	24%	27%	27%	26%	0.28	0.32	1.10
C102	Parallelogram	30%	6	6	12	6	12	6	0%	54%	46%	24%	24%	49%	0.28	0.32	1.10
C103	Parallelogram	37%	6	6	12	6	12	6	0%	49%	42%	24%	24%	44%	0.28	0.32	1.10
C104	Parallelogram	32%	6	6	12	6	12	6	0%	53%	45%	24%	24%	48%	0.28	0.32	1.10
C105	Parallelogram	23%	6	6	12	6	12	6	0%	59%	51%	23%	23%	54%	0.28	0.32	1.10
C106	Parallelogram	50%	6	6	12	6	12	6	0%	39%	33%	25%	25%	35%	0.28	0.32	1.10
C111	Parallelogram	53%	6	6	12	6	12	6	0%	36%	31%	26%	26%	33%	0.28	0.32	1.10
C112	Parallelogram	40%	6	6	12	6	12	6	0%	46%	40%	25%	25%	42%	0.28	0.32	1.10
C113	Parallelogram	43%	6	6	12	6	12	6	0%	44%	37%	25%	25%	40%	0.28	0.32	1.10
C114	Parallelogram	27%	6	6	12	6	12	6	0%	57%	48%	23%	23%	51%	0.28	0.32	1.10
C115	Parallelogram	40%	6	6	12	6	12	6	0%	46%	40%	25%	25%	42%	0.28	0.32	1.10
C116	Parallelogram	27%	6	6	12	6	12	6	0%	57%	48%	23%	23%	51%	0.28	0.32	1.10

LLSCSCE3

Panel Layers LowIron-LowIron-Spacer-LowEClear-Spacer-LowEClear			Layers						UV %	Visible Light Transmittance	Total Solar Transmittance	Visible Reflectance		Solar Heat Gain Coefficient	U-Value (BTU/hrft2F)		Light to Solar Gain
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime	
Non-Active	Any Shape	0%	3	3	12	3	12	3	0%	59%	25%	15%	13%	39%	0.12	0.12	1.51
A1	Rectangle	92%	3	3	12	3	12	3	0%	5%	2%	29%	29%	3%	0.12	0.12	1.51
A2	Rectangle	61%	3	3	12	3	12	3	0%	23%	10%	24%	23%	15%	0.12	0.12	1.51
A3	Rectangle	61%	3	3	12	3	12	3	0%	23%	10%	24%	23%	15%	0.12	0.12	1.51
A4	Rectangle	31%	3	3	12	3	12	3	0%	41%	17%	20%	18%	27%	0.12	0.12	1.51
A5	Rectangle	31%	3	3	12	3	12	3	0%	41%	17%	20%	18%	27%	0.12	0.12	1.51
A6	Rectangle	15%	3	3	12	3	12	3	0%	50%	21%	17%	16%	33%	0.12	0.12	1.51
A7	Rectangle	31%	3	3	12	3	12	3	0%	41%	17%	20%	18%	27%	0.12	0.12	1.51
A8	Rectangle	46%	3	3	12	3	12	3	0%	32%	14%	22%	21%	21%	0.12	0.12	1.51
A21	Rectangle	76%	3	3	12	3	12	3	0%	14%	6%	26%	26%	9%	0.12	0.12	1.51
A22	Rectangle	38%	3	3	12	3	12	3	0%	36%	15%	21%	19%	24%	0.12	0.12	1.51
A23	Rectangle	15%	3	3	12	3	12	3	0%	50%	21%	17%	16%	33%	0.12	0.12	1.51
A24	Rectangle	46%	3	3	12	3	12	3	0%	32%	14%	22%	21%	21%	0.12	0.12	1.51
A25	Rectangle	31%	3	3	12	3	12	3	0%	41%	17%	20%	18%	27%	0.12	0.12	1.51
A26	Rectangle	15%	3	3	12	3	12	3	0%	50%	21%	17%	16%	33%	0.12	0.12	1.51
A27	Rectangle	23%	3	3	12	3	12	3	0%	45%	19%	18%	17%	30%	0.12	0.12	1.51
A31	Rectangle	31%	3	3	12	3	12	3	0%	41%	17%	20%	18%	27%	0.12	0.12	1.51
A32	Rectangle	20%	3	3	12	3	12	3	0%	47%	20%	18%	16%	31%	0.12	0.12	1.51
A33	Rectangle	10%	3	3	12	3	12	3	0%	53%	22%	17%	15%	35%	0.12	0.12	1.51
A34	Rectangle	5%	3	3	12	3	12	3	0%	56%	24%	16%	14%	37%	0.12	0.12	1.51
A41	Rectangle	74%	3	3	12	3	12	3	0%	15%	7%	26%	26%	10%	0.12	0.12	1.51
A42	Rectangle	47%	3	3	12	3	12	3	0%	31%	13%	22%	21%	21%	0.12	0.12	1.51
A43	Rectangle	14%	3	3	12	3	12	3	0%	51%	21%	17%	15%	34%	0.12	0.12	1.51
A44	Rectangle	10%	3	3	12	3	12	3	0%	53%	22%	17%	15%	35%	0.12	0.12	1.51
A45	Rectangle	43%	3	3	12	3	12	3	0%	33%	14%	21%	20%	22%	0.12	0.12	1.51
A46	Rectangle	60%	3	3	12	3	12	3	0%	24%	10%	24%	23%	16%	0.12	0.12	1.51
A51	Rectangle	57%	3	3	12	3	12	3	0%	25%	11%	24%	23%	17%	0.12	0.12	1.51
A52	Rectangle	27%	3	3	12	3	12	3	0%	43%	18%	19%	18%	29%	0.12	0.12	1.51
A53	Rectangle	22%	3	3	12	3	12	3	0%	46%	20%	18%	17%	31%	0.12	0.12	1.51
A54	Rectangle	87%	3	3	12	3	12	3	0%	8%	3%	28%	28%	5%	0.12	0.12	1.51
A55	Rectangle	69%	3	3	12	3	12	3	0%	18%	8%	25%	25%	12%	0.12	0.12	1.51
A56	Rectangle	61%	3	3	12	3	12	3	0%	23%	10%	24%	23%	15%	0.12	0.12	1.51
A111	Rectangle	46%	3	3	12	3	12	3	0%	32%	14%	22%	21%	21%	0.12	0.12	1.51
A112	Rectangle	23%	3	3	12	3	12	3	0%	45%	19%	18%	17%	30%	0.12	0.12	1.51
A113	Rectangle	23%	3	3	12	3	12	3	0%	45%	19%	18%	17%	30%	0.12	0.12	1.51
A114	Rectangle	23%	3	3	12	3	12	3	0%	45%	19%	18%	17%	30%	0.12	0.12	1.51
A115	Rectangle	11%	3	3	12	3	12	3	0%	52%	22%	17%	15%	35%	0.12	0.12	1.51
A116	Rectangle	34%	3	3	12	3	12	3	0%	39%	16%	20%	19%	26%	0.12	0.12	1.51
A121	Rectangle	36%	3	3	12	3	12	3	0%	38%	16%	20%	19%	25%	0.12	0.12	1.51
A122	Rectangle	15%	3	3	12	3	12	3	0%	50%	21%	17%	16%	33%	0.12	0.12	1.51
A123	Rectangle	20%	3	3	12	3	12	3	0%	47%	20%	18%	16%	31%	0.12	0.12	1.51
A124	Rectangle	36%	3	3	12	3	12	3	0%	38%	16%	20%	19%	25%	0.12	0.12	1.51
A125	Rectangle	25%	3	3	12	3	12	3	0%	44%	19%	19%	17%	29%	0.12	0.12	1.51
A126	Rectangle	18%	3	3	12	3	12	3	0%	48%	21%	18%	16%	32%	0.12	0.12	1.51
A127	Rectangle	18%	3	3	12	3	12	3	0%	48%	21%	18%	16%	32%	0.12	0.12	1.51
A128	Rectangle	8%	3	3	12	3	12	3	0%	54%	23%	16%	14%	36%	0.12	0.12	1.51
B1	Rectangle-Half S	87%	3	3	12	3	12	3	0%	7%	3%	28%	23%	16%	0.12	0.12	1.51
B2	Rectangle-Half S	58%	3	3	12	3	12	3	0%	25%	10%	24%	23%	16%	0.12	0.12	1.51
B3	Rectangle-Half S	58%	3	3	12	3	12	3	0%	25%	10%	24%	23%	16%	0.12	0.12	1.51
B4	Rectangle-Half S	29%	3	3	12	3	12	3	0%	42%	18%	19%	18%	28%	0.12	0.12	1.51
B5	Rectangle-Half S	29%	3	3	12	3	12	3	0%	42%	18%	19%	18%	28%	0.12	0.12	1.51
B6	Rectangle-Half S	15%	3	3	12	3	12	3	0%	50%	21%	17%	15%	33%	0.12	0.12	1.51
B7	Rectangle-Half S	29%	3	3	12	3	12	3	0%	42%	18%	19%	18%	28%	0.12	0.12	1.51
B8	Rectangle-Half S	44%	3	3	12	3	12	3	0%	33%	14%	22%	20%	22%	0.12	0.12	1.51
B21	Rectangle-Half S	73%	3	3	12	3	12	3	0%	16%	7%	26%	25%	11%	0.12	0.12	1.51
B22	Rectangle-Half S	44%	3	3	12	3	12	3	0%	33%	14%	22%	20%	22%	0.12	0.12	1.51
B23	Rectangle-Half S	15%	3	3	12	3	12	3	0%	50%	21%	17%	15%	33%	0.12	0.12	1.51
B24	Rectangle-Half S	58%	3	3	12	3	12	3	0%	25%	10%	24%	23%	16%	0.12	0.12	1.51
B25	Rectangle-Half S	29%	3	3	12	3	12	3	0%	42%	18%	19%	18%	28%	0.12	0.12	1.51
B26	Rectangle-Half S	44%	3	3	12	3	12	3	0%	33%	14%	22%	20%	22%	0.12	0.12	1.51
B31	Rectangle-Half S	39%	3	3	12	3	12	3	0%	36%	15%	21%	20%	24%	0.12	0.12	1.51
B32	Rectangle-Half S	19%	3	3	12	3	12	3	0%	48%	20%	18%	16%	31%	0.12	0.12	1.51
B33	Rectangle-Half S	39%	3	3	12	3	12	3	0%	36%	15%	21%	20%	24%	0.12	0.12	1.51
B34	Rectangle-Half S	19%	3	3	12	3	12	3	0%	48%	20%	18%	16%	31%	0.12	0.12	1.51
B35	Rectangle-Half S	10%	3	3	12	3	12	3	0%	53%	23%	16%	15%	35%	0.12	0.12	1.51
B36	Rectangle-Half S	32%	3	3	12	3	12	3	0%	40%	17%	20%	18%	27%	0.12	0.12	1.51
C11	Circle	60%	3	3	12	3	12	3	0%	25%	10%	24%	23%	16%	0.12	0.12	1.51
C12	Circle	40%	3	3	12	3	12	3	0%	35%	15%	21%	20%	23%	0.12	0.12	1.51
C13	Circle	20%	3	3	12	3	12	3	0%	47%	20%	18%	16%	31%	0.12	0.12	1.51
C21	Circle	78%	3	3	12	3	12	3	0%	13%	5%	27%	26%	8%	0.12	0.12	1.51
C22	Circle	79%	3	3	12	3	12	3	0%	12%	5%	27%	26%	8%	0.12	0.12	1.51
C23	Circle	42%	3	3	12	3	12	3	0%	34%	14%	21%	20%	22%	0.12	0.12	1.51
C24	Circle	38%	3	3	12	3	12	3	0%	36%	15%	21%	20%	24%	0.12	0.12	1.51
C25	Circle	65%	3	3	12	3	12	3	0%	21%	9%	25%	24%	14%	0.12	0.12	1.51
C31	Circle	70%	3	3	12	3	12	3	0%	18%	7%	26%	25%	12%	0.12	0.12	1.51
C32	Circle	57%	3	3	12	3	12	3	0%	25%	11%	24%	23%	17%	0.12	0.12	1.51
C33	Circle	35%	3	3	12	3	12	3	0%	38%	16%	20%	19%	25%	0.12	0.12	1.51
C34	Circle	63%	3	3	12	3	12	3	0%	22%	9%	24%	24%	15%	0.12	0.12	1.51
C35	Circle	40%	3	3	12	3	12	3	0%	35%	15%	21%	20%	23%	0.12	0.12	1.51
C36	Circle	20%	3	3	12	3	12	3	0%	47%	20%	18%	16%	31%	0.12	0.12	1.51
C41	Circle	52%	3	3	12	3	12	3	0%	28%	12%	23%	22%	19%	0.12	0.12	1.51
C42	Circle	34%	3	3	12	3	12	3	0%	39%	16%	20%	19%	26%	0.12	0.12	1.51
C43	Circle	44%	3	3	12	3	12	3	0%	33%	14%	22%	20%	22%	0.12	0.12	1.51
C51	Circle	54%	3	3	12	3	12	3	0%	27%	12%	23%	22%	18%	0.12	0.12	1.51
C52	Circle	44%	3	3	12	3	12	3	0%	33%	14%	22%	20%	22%	0.12	0.12	1.51
C53	Circle	48%	3	3	12	3	12	3	0%	32%	14%	22%	21%	21%	0.12	0.12	1.51
C54	Circle	49%	3	3	12	3	12	3	0%	30%	13%	22%	21%	20%	0.12	0.12	1.51
C55	Circle	36%	3	3	12	3	12	3	0%	38%	16%	20%	19%	25%	0.12	0.12	1.51
C14	Triangle	51%	3	3	12	3	12	3	0%	29%	12%	23%	22%	19%	0.12	0.12	1.51
C15	Triangle	36%	3	3	12	3	12	3	0%	38%	16%	20%	19%	25%	0.12	0.12	1.51
C16	Triangle	31%	3	3	12	3	12	3	0%	41%	17%	20%	18%	27%	0.12	0.12	

LLSCSCL3

Panel Layers LowIron-LowIron-Spacer-LowEClear-Spacer-LowEClear			Layers						UV %	Visible Light Transmittance	Total Solar Transmittance	Visible Reflectance		Solar Heat Gain Coefficient	U-Value (BTU/hrft2F)		Light to Solar Gain
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime	
C74	Triangle	47%	3	3	12	3	12	3	0%	31%	13%	22%	21%	21%	0.12	0.12	1.51
C75	Triangle	37%	3	3	12	3	12	3	0%	37%	16%	21%	19%	25%	0.12	0.12	1.51
C76	Triangle	41%	3	3	12	3	12	3	0%	35%	15%	21%	20%	23%	0.12	0.12	1.51
C17	Hexagon	48%	3	3	12	3	12	3	0%	31%	13%	22%	21%	20%	0.12	0.12	1.51
C18	Hexagon	32%	3	3	12	3	12	3	0%	40%	17%	20%	18%	26%	0.12	0.12	1.51
C19	Hexagon	16%	3	3	12	3	12	3	0%	50%	21%	17%	16%	33%	0.12	0.12	1.51
C81	Hexagon	68%	3	3	12	3	12	3	0%	19%	8%	25%	25%	12%	0.12	0.12	1.51
C82	Hexagon	36%	3	3	12	3	12	3	0%	37%	16%	20%	19%	25%	0.12	0.12	1.51
C83	Hexagon	36%	3	3	12	3	12	3	0%	37%	16%	20%	19%	25%	0.12	0.12	1.51
C84	Hexagon	52%	3	3	12	3	12	3	0%	28%	12%	23%	22%	19%	0.12	0.12	1.51
C85	Hexagon	22%	3	3	12	3	12	3	0%	46%	20%	18%	17%	31%	0.12	0.12	1.51
C91	Hexagon	69%	3	3	12	3	12	3	0%	18%	8%	25%	25%	12%	0.12	0.12	1.51
C92	Hexagon	53%	3	3	12	3	12	3	0%	28%	12%	23%	22%	18%	0.12	0.12	1.51
C93	Hexagon	37%	3	3	12	3	12	3	0%	37%	16%	21%	19%	24%	0.12	0.12	1.51
C94	Hexagon	10%	3	3	12	3	12	3	0%	53%	23%	16%	15%	35%	0.12	0.12	1.51
C95	Hexagon	32%	3	3	12	3	12	3	0%	40%	17%	20%	18%	27%	0.12	0.12	1.51
C96	Hexagon	47%	3	3	12	3	12	3	0%	31%	13%	22%	21%	21%	0.12	0.12	1.51
C101	Parallelogram	63%	3	3	12	3	12	3	0%	22%	9%	24%	24%	14%	0.12	0.12	1.51
C102	Parallelogram	30%	3	3	12	3	12	3	0%	41%	18%	19%	18%	27%	0.12	0.12	1.51
C103	Parallelogram	37%	3	3	12	3	12	3	0%	37%	16%	20%	19%	25%	0.12	0.12	1.51
C104	Parallelogram	32%	3	3	12	3	12	3	0%	40%	17%	20%	18%	27%	0.12	0.12	1.51
C105	Parallelogram	23%	3	3	12	3	12	3	0%	45%	19%	18%	17%	30%	0.12	0.12	1.51
C106	Parallelogram	50%	3	3	12	3	12	3	0%	30%	13%	22%	21%	20%	0.12	0.12	1.51
C111	Parallelogram	53%	3	3	12	3	12	3	0%	28%	12%	23%	22%	18%	0.12	0.12	1.51
C112	Parallelogram	40%	3	3	12	3	12	3	0%	35%	15%	21%	20%	23%	0.12	0.12	1.51
C113	Parallelogram	43%	3	3	12	3	12	3	0%	33%	14%	21%	20%	22%	0.12	0.12	1.51
C114	Parallelogram	27%	3	3	12	3	12	3	0%	43%	18%	19%	18%	29%	0.12	0.12	1.51
C115	Parallelogram	40%	3	3	12	3	12	3	0%	35%	15%	21%	20%	23%	0.12	0.12	1.51
C116	Parallelogram	27%	3	3	12	3	12	3	0%	43%	18%	19%	18%	29%	0.12	0.12	1.51

LLSCSCLE4

Panel Layers LowIron-LowIron-Spacer-LowEClear-Spacer-LowEClear			Layers						UV %	Visible Light Transmittance	Total Solar Transmittance	Visible Reflectance		Solar Heat Gain Coefficient	U-Value (BTU/hrft2F)		Light to Solar Gain
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime	
Non-Active	Any Shape	0%	4	4	12	4	12	4	0%	58%	25%	14%	12%	39%	0.12	0.12	1.49
A1	Rectangle	92%	4	4	12	4	12	4	0%	5%	2%	29%	29%	3%	0.12	0.12	1.49
A2	Rectangle	61%	4	4	12	4	12	4	0%	23%	10%	24%	23%	15%	0.12	0.12	1.49
A3	Rectangle	61%	4	4	12	4	12	4	0%	23%	10%	24%	23%	15%	0.12	0.12	1.49
A4	Rectangle	31%	4	4	12	4	12	4	0%	40%	17%	19%	18%	27%	0.12	0.12	1.49
A5	Rectangle	31%	4	4	12	4	12	4	0%	40%	17%	19%	18%	27%	0.12	0.12	1.49
A6	Rectangle	15%	4	4	12	4	12	4	0%	49%	21%	16%	15%	33%	0.12	0.12	1.49
A7	Rectangle	31%	4	4	12	4	12	4	0%	40%	17%	19%	18%	27%	0.12	0.12	1.49
A8	Rectangle	46%	4	4	12	4	12	4	0%	31%	14%	21%	20%	21%	0.12	0.12	1.49
A21	Rectangle	76%	4	4	12	4	12	4	0%	14%	6%	26%	26%	9%	0.12	0.12	1.49
A22	Rectangle	38%	4	4	12	4	12	4	0%	36%	15%	20%	19%	24%	0.12	0.12	1.49
A23	Rectangle	15%	4	4	12	4	12	4	0%	49%	21%	16%	15%	33%	0.12	0.12	1.49
A24	Rectangle	46%	4	4	12	4	12	4	0%	31%	14%	21%	20%	21%	0.12	0.12	1.49
A25	Rectangle	31%	4	4	12	4	12	4	0%	40%	17%	19%	18%	27%	0.12	0.12	1.49
A26	Rectangle	15%	4	4	12	4	12	4	0%	49%	21%	16%	15%	33%	0.12	0.12	1.49
A27	Rectangle	23%	4	4	12	4	12	4	0%	45%	19%	18%	16%	30%	0.12	0.12	1.49
A31	Rectangle	31%	4	4	12	4	12	4	0%	40%	17%	19%	18%	27%	0.12	0.12	1.49
A32	Rectangle	20%	4	4	12	4	12	4	0%	46%	20%	17%	16%	31%	0.12	0.12	1.49
A33	Rectangle	10%	4	4	12	4	12	4	0%	52%	22%	16%	14%	35%	0.12	0.12	1.49
A34	Rectangle	5%	4	4	12	4	12	4	0%	55%	24%	15%	13%	37%	0.12	0.12	1.49
A41	Rectangle	74%	4	4	12	4	12	4	0%	15%	7%	26%	25%	10%	0.12	0.12	1.49
A42	Rectangle	47%	4	4	12	4	12	4	0%	31%	13%	22%	20%	21%	0.12	0.12	1.49
A43	Rectangle	14%	4	4	12	4	12	4	0%	50%	21%	16%	15%	34%	0.12	0.12	1.49
A44	Rectangle	10%	4	4	12	4	12	4	0%	52%	22%	16%	14%	35%	0.12	0.12	1.49
A45	Rectangle	43%	4	4	12	4	12	4	0%	33%	14%	21%	20%	22%	0.12	0.12	1.49
A46	Rectangle	60%	4	4	12	4	12	4	0%	23%	10%	24%	23%	16%	0.12	0.12	1.49
A51	Rectangle	57%	4	4	12	4	12	4	0%	25%	11%	23%	22%	17%	0.12	0.12	1.49
A52	Rectangle	27%	4	4	12	4	12	4	0%	42%	18%	18%	17%	29%	0.12	0.12	1.49
A53	Rectangle	22%	4	4	12	4	12	4	0%	45%	20%	17%	16%	31%	0.12	0.12	1.49
A54	Rectangle	87%	4	4	12	4	12	4	0%	8%	3%	28%	28%	5%	0.12	0.12	1.49
A55	Rectangle	69%	4	4	12	4	12	4	0%	16%	8%	25%	24%	12%	0.12	0.12	1.49
A56	Rectangle	61%	4	4	12	4	12	4	0%	23%	10%	24%	23%	15%	0.12	0.12	1.49
A111	Rectangle	46%	4	4	12	4	12	4	0%	31%	14%	21%	20%	21%	0.12	0.12	1.49
A112	Rectangle	23%	4	4	12	4	12	4	0%	45%	19%	18%	16%	30%	0.12	0.12	1.49
A113	Rectangle	23%	4	4	12	4	12	4	0%	45%	19%	18%	16%	30%	0.12	0.12	1.49
A114	Rectangle	23%	4	4	12	4	12	4	0%	45%	19%	18%	16%	30%	0.12	0.12	1.49
A115	Rectangle	11%	4	4	12	4	12	4	0%	51%	22%	16%	14%	35%	0.12	0.12	1.49
A116	Rectangle	34%	4	4	12	4	12	4	0%	38%	16%	20%	18%	26%	0.12	0.12	1.49
A121	Rectangle	36%	4	4	12	4	12	4	0%	37%	16%	20%	18%	25%	0.12	0.12	1.49
A122	Rectangle	15%	4	4	12	4	12	4	0%	49%	21%	16%	15%	33%	0.12	0.12	1.49
A123	Rectangle	20%	4	4	12	4	12	4	0%	46%	20%	17%	16%	31%	0.12	0.12	1.49
A124	Rectangle	36%	4	4	12	4	12	4	0%	37%	16%	20%	18%	25%	0.12	0.12	1.49
A125	Rectangle	25%	4	4	12	4	12	4	0%	43%	19%	18%	17%	29%	0.12	0.12	1.49
A126	Rectangle	18%	4	4	12	4	12	4	0%	48%	21%	17%	15%	32%	0.12	0.12	1.49
A127	Rectangle	18%	4	4	12	4	12	4	0%	48%	21%	17%	15%	32%	0.12	0.12	1.49
A128	Rectangle	8%	4	4	12	4	12	4	0%	54%	23%	15%	13%	36%	0.12	0.12	1.49
B1	Rectangle-Half S	87%	4	4	12	4	12	4	0%	7%	3%	29%	28%	5%	0.12	0.12	1.49
B2	Rectangle-Half S	58%	4	4	12	4	12	4	0%	24%	10%	23%	22%	16%	0.12	0.12	1.49
B3	Rectangle-Half S	58%	4	4	12	4	12	4	0%	24%	10%	23%	22%	16%	0.12	0.12	1.49
B4	Rectangle-Half S	29%	4	4	12	4	12	4	0%	41%	18%	19%	17%	28%	0.12	0.12	1.49
B5	Rectangle-Half S	29%	4	4	12	4	12	4	0%	41%	18%	19%	17%	28%	0.12	0.12	1.49
B6	Rectangle-Half S	15%	4	4	12	4	12	4	0%	50%	21%	16%	15%	33%	0.12	0.12	1.49
B7	Rectangle-Half S	29%	4	4	12	4	12	4	0%	41%	18%	19%	17%	28%	0.12	0.12	1.49
B8	Rectangle-Half S	44%	4	4	12	4	12	4	0%	33%	14%	21%	20%	22%	0.12	0.12	1.49
B21	Rectangle-Half S	73%	4	4	12	4	12	4	0%	16%	7%	26%	25%	11%	0.12	0.12	1.49
B22	Rectangle-Half S	44%	4	4	12	4	12	4	0%	33%	14%	21%	20%	22%	0.12	0.12	1.49
B23	Rectangle-Half S	15%	4	4	12	4	12	4	0%	50%	21%	16%	15%	33%	0.12	0.12	1.49
B24	Rectangle-Half S	58%	4	4	12	4	12	4	0%	24%	10%	23%	22%	16%	0.12	0.12	1.49
B25	Rectangle-Half S	29%	4	4	12	4	12	4	0%	41%	18%	19%	17%	28%	0.12	0.12	1.49
B26	Rectangle-Half S	44%	4	4	12	4	12	4	0%	33%	14%	21%	20%	22%	0.12	0.12	1.49
B31	Rectangle-Half S	39%	4	4	12	4	12	4	0%	35%	15%	20%	19%	24%	0.12	0.12	1.49
B32	Rectangle-Half S	19%	4	4	12	4	12	4	0%	47%	20%	17%	15%	31%	0.12	0.12	1.49
B33	Rectangle-Half S	39%	4	4	12	4	12	4	0%	35%	15%	20%	19%	24%	0.12	0.12	1.49
B34	Rectangle-Half S	19%	4	4	12	4	12	4	0%	47%	20%	17%	15%	31%	0.12	0.12	1.49
B35	Rectangle-Half S	10%	4	4	12	4	12	4	0%	52%	23%	16%	14%	35%	0.12	0.12	1.49
B36	Rectangle-Half S	32%	4	4	12	4	12	4	0%	40%	17%	19%	18%	27%	0.12	0.12	1.49
C11	Circle	60%	4	4	12	4	12	4	0%	23%	10%	24%	23%	16%	0.12	0.12	1.49
C12	Circle	40%	4	4	12	4	12	4	0%	35%	15%	20%	19%	23%	0.12	0.12	1.49
C13	Circle	20%	4	4	12	4	12	4	0%	46%	20%	17%	16%	31%	0.12	0.12	1.49
C21	Circle	78%	4	4	12	4	12	4	0%	13%	5%	27%	26%	8%	0.12	0.12	1.49
C22	Circle	79%	4	4	12	4	12	4	0%	12%	5%	27%	26%	8%	0.12	0.12	1.49
C23	Circle	42%	4	4	12	4	12	4	0%	33%	14%	21%	20%	22%	0.12	0.12	1.49
C24	Circle	38%	4	4	12	4	12	4	0%	36%	15%	20%	19%	24%	0.12	0.12	1.49
C25	Circle	65%	4	4	12	4	12	4	0%	20%	9%	24%	24%	14%	0.12	0.12	1.49
C31	Circle	70%	4	4	12	4	12	4	0%	17%	7%	25%	25%	12%	0.12	0.12	1.49
C32	Circle	57%	4	4	12	4	12	4	0%	25%	11%	23%	22%	17%	0.12	0.12	1.49
C33	Circle	35%	4	4	12	4	12	4	0%	38%	16%	20%	18%	25%	0.12	0.12	1.49
C34	Circle	63%	4	4	12	4	12	4	0%	22%	9%	24%	23%	15%	0.12	0.12	1.49
C35	Circle	40%	4	4	12	4	12	4	0%	35%	15%	20%	19%	23%	0.12	0.12	1.49
C36	Circle	20%	4	4	12	4	12	4	0%	46%	20%	17%	16%	31%	0.12	0.12	1.49
C41	Circle	52%	4	4	12	4	12	4	0%	28%	12%	22%	21%	19%	0.12	0.12	1.49
C42	Circle	34%	4	4	12	4	12	4	0%	38%	16%	19%	18%	26%	0.12	0.12	1.49
C43	Circle	44%	4	4	12	4	12	4	0%	32%	14%	21%	20%	22%	0.12	0.12	1.49
C51	Circle	54%	4	4	12	4	12	4	0%	27%	12%	23%	22%	18%	0.12	0.12	1.49
C52	Circle	44%	4	4	12	4	12	4	0%	32%	14%	21%	20%	22%	0.12	0.12	1.49
C53	Circle	48%	4	4	12	4	12	4	0%	32%	14%	21%	20%	21%	0.12	0.12	1.49
C54	Circle	49%	4	4	12	4	12	4	0%	30%	13%	22%	21%	20%	0.12	0.12	1.49
C55	Circle	36%	4	4	12	4	12	4	0%	37%	16%	20%	18%	25%	0.12	0.12	1.49
C14	Triangle	51%	4	4	12	4	12	4	0%	29%	12%	22%	21%	19%	0.12	0.12	1.49
C15	Triangle	35%	4	4	12	4	12	4	0%	37%	16%	20%	18%	25%	0.12	0.12	1.49
C16	Triangle	31%	4	4	12	4	12	4	0%	40%	17%	19%	18%	27%	0.12		

LLSCSCL4

Panel Layers LowIron-LowIron-Spacer-LowEClear-Spacer-LowEClear			Layers						UV %	Visible Light Transmittance	Total Solar Transmittance	Visible Reflectance		Solar Heat Gain Coefficient	U-Value (BTU/hrft2F)		Light to Solar Gain
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime	
C74	Triangle	47%	4	4	12	4	12	4	0%	31%	13%	22%	21%	21%	0.12	0.12	1.49
C75	Triangle	37%	4	4	12	4	12	4	0%	37%	16%	20%	19%	25%	0.12	0.12	1.49
C76	Triangle	41%	4	4	12	4	12	4	0%	34%	15%	21%	19%	23%	0.12	0.12	1.49
C17	Hexagon	48%	4	4	12	4	12	4	0%	30%	13%	22%	21%	20%	0.12	0.12	1.49
C18	Hexagon	32%	4	4	12	4	12	4	0%	39%	17%	19%	18%	26%	0.12	0.12	1.49
C19	Hexagon	18%	4	4	12	4	12	4	0%	49%	21%	17%	15%	33%	0.12	0.12	1.49
C81	Hexagon	68%	4	4	12	4	12	4	0%	19%	8%	25%	24%	12%	0.12	0.12	1.49
C82	Hexagon	36%	4	4	12	4	12	4	0%	37%	16%	20%	19%	25%	0.12	0.12	1.49
C83	Hexagon	36%	4	4	12	4	12	4	0%	37%	16%	20%	19%	25%	0.12	0.12	1.49
C84	Hexagon	52%	4	4	12	4	12	4	0%	28%	12%	22%	21%	19%	0.12	0.12	1.49
C85	Hexagon	22%	4	4	12	4	12	4	0%	45%	20%	17%	16%	31%	0.12	0.12	1.49
C91	Hexagon	69%	4	4	12	4	12	4	0%	16%	8%	25%	24%	12%	0.12	0.12	1.49
C92	Hexagon	53%	4	4	12	4	12	4	0%	27%	12%	23%	22%	18%	0.12	0.12	1.49
C93	Hexagon	37%	4	4	12	4	12	4	0%	36%	16%	20%	19%	24%	0.12	0.12	1.49
C94	Hexagon	10%	4	4	12	4	12	4	0%	52%	23%	16%	14%	35%	0.12	0.12	1.49
C95	Hexagon	32%	4	4	12	4	12	4	0%	40%	17%	19%	18%	27%	0.12	0.12	1.49
C96	Hexagon	47%	4	4	12	4	12	4	0%	31%	13%	22%	21%	21%	0.12	0.12	1.49
C101	Parallelogram	63%	4	4	12	4	12	4	0%	21%	9%	24%	23%	14%	0.12	0.12	1.49
C102	Parallelogram	30%	4	4	12	4	12	4	0%	41%	18%	19%	17%	27%	0.12	0.12	1.49
C103	Parallelogram	37%	4	4	12	4	12	4	0%	37%	16%	20%	19%	25%	0.12	0.12	1.49
C104	Parallelogram	32%	4	4	12	4	12	4	0%	40%	17%	19%	18%	27%	0.12	0.12	1.49
C105	Parallelogram	23%	4	4	12	4	12	4	0%	44%	19%	18%	16%	30%	0.12	0.12	1.49
C106	Parallelogram	50%	4	4	12	4	12	4	0%	29%	13%	22%	21%	20%	0.12	0.12	1.49
C111	Parallelogram	53%	4	4	12	4	12	4	0%	27%	12%	23%	22%	18%	0.12	0.12	1.49
C112	Parallelogram	40%	4	4	12	4	12	4	0%	35%	15%	20%	19%	23%	0.12	0.12	1.49
C113	Parallelogram	43%	4	4	12	4	12	4	0%	33%	14%	21%	20%	22%	0.12	0.12	1.49
C114	Parallelogram	27%	4	4	12	4	12	4	0%	43%	18%	18%	17%	29%	0.12	0.12	1.49
C115	Parallelogram	40%	4	4	12	4	12	4	0%	35%	15%	20%	19%	23%	0.12	0.12	1.49
C116	Parallelogram	27%	4	4	12	4	12	4	0%	43%	18%	18%	17%	29%	0.12	0.12	1.49

LLSCSCLE6

Panel Layers LowIron-LowIron-Spacer-LowEClear-Spacer-LowEClear			Layers						UV %	Visible Light Transmittance	Total Solar Transmittance	Visible Reflectance		Solar Heat Gain Coefficient	U-Value (BTU/hrft2F)		Light to Solar Gain
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime	
Non-Active	Any Shape	0%	6	6	12	6	12	6	0%	57%	24%	14%	12%	38%	0.12	0.12	1.50
A1	Rectangle	92%	6	6	12	6	12	6	0%	5%	2%	29%	29%	3%	0.12	0.12	1.50
A2	Rectangle	61%	6	6	12	6	12	6	0%	22%	9%	24%	23%	15%	0.12	0.12	1.50
A3	Rectangle	61%	6	6	12	6	12	6	0%	22%	9%	24%	23%	15%	0.12	0.12	1.50
A4	Rectangle	31%	6	6	12	6	12	6	0%	40%	17%	19%	18%	26%	0.12	0.12	1.50
A5	Rectangle	31%	6	6	12	6	12	6	0%	40%	17%	19%	18%	26%	0.12	0.12	1.50
A6	Rectangle	15%	6	6	12	6	12	6	0%	48%	20%	16%	15%	32%	0.12	0.12	1.50
A7	Rectangle	31%	6	6	12	6	12	6	0%	40%	17%	19%	18%	26%	0.12	0.12	1.50
A8	Rectangle	46%	6	6	12	6	12	6	0%	31%	13%	21%	20%	21%	0.12	0.12	1.50
A21	Rectangle	76%	6	6	12	6	12	6	0%	13%	6%	26%	26%	9%	0.12	0.12	1.50
A22	Rectangle	38%	6	6	12	6	12	6	0%	35%	15%	20%	19%	23%	0.12	0.12	1.50
A23	Rectangle	15%	6	6	12	6	12	6	0%	48%	20%	16%	15%	32%	0.12	0.12	1.50
A24	Rectangle	46%	6	6	12	6	12	6	0%	31%	13%	21%	20%	21%	0.12	0.12	1.50
A25	Rectangle	31%	6	6	12	6	12	6	0%	40%	17%	19%	18%	26%	0.12	0.12	1.50
A26	Rectangle	15%	6	6	12	6	12	6	0%	48%	20%	16%	15%	32%	0.12	0.12	1.50
A27	Rectangle	23%	6	6	12	6	12	6	0%	44%	18%	18%	16%	29%	0.12	0.12	1.50
A31	Rectangle	31%	6	6	12	6	12	6	0%	40%	17%	19%	18%	26%	0.12	0.12	1.50
A32	Rectangle	20%	6	6	12	6	12	6	0%	45%	19%	17%	16%	30%	0.12	0.12	1.50
A33	Rectangle	10%	6	6	12	6	12	6	0%	51%	22%	16%	14%	34%	0.12	0.12	1.50
A34	Rectangle	5%	6	6	12	6	12	6	0%	54%	23%	15%	13%	36%	0.12	0.12	1.50
A41	Rectangle	74%	6	6	12	6	12	6	0%	15%	6%	26%	25%	10%	0.12	0.12	1.50
A42	Rectangle	47%	6	6	12	6	12	6	0%	30%	13%	22%	20%	20%	0.12	0.12	1.50
A43	Rectangle	14%	6	6	12	6	12	6	0%	49%	21%	16%	15%	33%	0.12	0.12	1.50
A44	Rectangle	10%	6	6	12	6	12	6	0%	51%	22%	16%	14%	34%	0.12	0.12	1.50
A45	Rectangle	43%	6	6	12	6	12	6	0%	32%	14%	21%	20%	22%	0.12	0.12	1.50
A46	Rectangle	60%	6	6	12	6	12	6	0%	23%	10%	24%	23%	15%	0.12	0.12	1.50
A51	Rectangle	57%	6	6	12	6	12	6	0%	24%	10%	23%	22%	16%	0.12	0.12	1.50
A52	Rectangle	27%	6	6	12	6	12	6	0%	42%	18%	18%	17%	28%	0.12	0.12	1.50
A53	Rectangle	22%	6	6	12	6	12	6	0%	45%	19%	17%	16%	30%	0.12	0.12	1.50
A54	Rectangle	87%	6	6	12	6	12	6	0%	8%	3%	26%	28%	5%	0.12	0.12	1.50
A55	Rectangle	69%	6	6	12	6	12	6	0%	16%	7%	25%	24%	12%	0.12	0.12	1.50
A56	Rectangle	61%	6	6	12	6	12	6	0%	22%	9%	24%	23%	15%	0.12	0.12	1.50
A111	Rectangle	46%	6	6	12	6	12	6	0%	31%	13%	21%	20%	21%	0.12	0.12	1.50
A112	Rectangle	23%	6	6	12	6	12	6	0%	44%	18%	18%	16%	29%	0.12	0.12	1.50
A113	Rectangle	23%	6	6	12	6	12	6	0%	44%	18%	18%	16%	29%	0.12	0.12	1.50
A114	Rectangle	23%	6	6	12	6	12	6	0%	44%	18%	18%	16%	29%	0.12	0.12	1.50
A115	Rectangle	11%	6	6	12	6	12	6	0%	50%	21%	16%	14%	34%	0.12	0.12	1.50
A116	Rectangle	34%	6	6	12	6	12	6	0%	37%	16%	20%	18%	25%	0.12	0.12	1.50
A121	Rectangle	36%	6	6	12	6	12	6	0%	37%	15%	20%	18%	24%	0.12	0.12	1.50
A122	Rectangle	15%	6	6	12	6	12	6	0%	48%	20%	16%	15%	32%	0.12	0.12	1.50
A123	Rectangle	20%	6	6	12	6	12	6	0%	45%	19%	17%	16%	30%	0.12	0.12	1.50
A124	Rectangle	36%	6	6	12	6	12	6	0%	37%	15%	20%	18%	24%	0.12	0.12	1.50
A125	Rectangle	25%	6	6	12	6	12	6	0%	42%	18%	18%	17%	28%	0.12	0.12	1.50
A126	Rectangle	18%	6	6	12	6	12	6	0%	47%	20%	17%	15%	31%	0.12	0.12	1.50
A127	Rectangle	18%	6	6	12	6	12	6	0%	47%	20%	17%	15%	31%	0.12	0.12	1.50
A128	Rectangle	8%	6	6	12	6	12	6	0%	53%	22%	15%	13%	35%	0.12	0.12	1.50
B1	Rectangle-Half S	87%	6	6	12	6	12	6	0%	7%	3%	28%	28%	9%	0.12	0.12	1.50
B2	Rectangle-Half S	59%	6	6	12	6	12	6	0%	24%	10%	23%	22%	16%	0.12	0.12	1.50
B3	Rectangle-Half S	59%	6	6	12	6	12	6	0%	24%	10%	23%	22%	16%	0.12	0.12	1.50
B4	Rectangle-Half S	29%	6	6	12	6	12	6	0%	40%	17%	19%	17%	27%	0.12	0.12	1.50
B5	Rectangle-Half S	29%	6	6	12	6	12	6	0%	40%	17%	19%	17%	27%	0.12	0.12	1.50
B6	Rectangle-Half S	15%	6	6	12	6	12	6	0%	49%	21%	16%	15%	32%	0.12	0.12	1.50
B7	Rectangle-Half S	29%	6	6	12	6	12	6	0%	40%	17%	19%	17%	27%	0.12	0.12	1.50
B8	Rectangle-Half S	44%	6	6	12	6	12	6	0%	32%	14%	21%	20%	21%	0.12	0.12	1.50
B21	Rectangle-Half S	73%	6	6	12	6	12	6	0%	15%	7%	26%	25%	10%	0.12	0.12	1.50
B22	Rectangle-Half S	44%	6	6	12	6	12	6	0%	32%	14%	21%	20%	21%	0.12	0.12	1.50
B23	Rectangle-Half S	15%	6	6	12	6	12	6	0%	49%	21%	16%	15%	32%	0.12	0.12	1.50
B24	Rectangle-Half S	58%	6	6	12	6	12	6	0%	24%	10%	23%	22%	16%	0.12	0.12	1.50
B25	Rectangle-Half S	29%	6	6	12	6	12	6	0%	40%	17%	19%	17%	27%	0.12	0.12	1.50
B26	Rectangle-Half S	44%	6	6	12	6	12	6	0%	32%	14%	21%	20%	21%	0.12	0.12	1.50
B31	Rectangle-Half S	39%	6	6	12	6	12	6	0%	35%	15%	20%	19%	23%	0.12	0.12	1.50
B32	Rectangle-Half S	19%	6	6	12	6	12	6	0%	46%	19%	17%	15%	31%	0.12	0.12	1.50
B33	Rectangle-Half S	39%	6	6	12	6	12	6	0%	35%	15%	20%	19%	23%	0.12	0.12	1.50
B34	Rectangle-Half S	19%	6	6	12	6	12	6	0%	46%	19%	17%	15%	31%	0.12	0.12	1.50
B35	Rectangle-Half S	10%	6	6	12	6	12	6	0%	51%	22%	16%	14%	34%	0.12	0.12	1.50
B36	Rectangle-Half S	32%	6	6	12	6	12	6	0%	39%	16%	19%	18%	26%	0.12	0.12	1.50
C11	Circle	60%	6	6	12	6	12	6	0%	23%	10%	24%	23%	15%	0.12	0.12	1.50
C12	Circle	40%	6	6	12	6	12	6	0%	34%	14%	20%	19%	23%	0.12	0.12	1.50
C13	Circle	20%	6	6	12	6	12	6	0%	46%	19%	17%	16%	30%	0.12	0.12	1.50
C21	Circle	78%	6	6	12	6	12	6	0%	12%	5%	27%	26%	6%	0.12	0.12	1.50
C22	Circle	79%	6	6	12	6	12	6	0%	12%	5%	27%	26%	6%	0.12	0.12	1.50
C23	Circle	42%	6	6	12	6	12	6	0%	33%	14%	21%	20%	21%	0.12	0.12	1.50
C24	Circle	38%	6	6	12	6	12	6	0%	35%	15%	20%	19%	23%	0.12	0.12	1.50
C25	Circle	65%	6	6	12	6	12	6	0%	20%	8%	24%	24%	13%	0.12	0.12	1.50
C31	Circle	70%	6	6	12	6	12	6	0%	17%	7%	25%	25%	11%	0.12	0.12	1.50
C32	Circle	57%	6	6	12	6	12	6	0%	24%	10%	23%	22%	16%	0.12	0.12	1.50
C33	Circle	35%	6	6	12	6	12	6	0%	37%	16%	20%	18%	25%	0.12	0.12	1.50
C34	Circle	63%	6	6	12	6	12	6	0%	21%	9%	24%	23%	14%	0.12	0.12	1.50
C35	Circle	40%	6	6	12	6	12	6	0%	34%	14%	20%	19%	23%	0.12	0.12	1.50
C36	Circle	20%	6	6	12	6	12	6	0%	45%	19%	17%	16%	30%	0.12	0.12	1.50
C41	Circle	52%	6	6	12	6	12	6	0%	27%	11%	22%	21%	18%	0.12	0.12	1.50
C42	Circle	34%	6	6	12	6	12	6	0%	37%	16%	19%	18%	25%	0.12	0.12	1.50
C43	Circle	44%	6	6	12	6	12	6	0%	32%	13%	21%	20%	21%	0.12	0.12	1.50
C51	Circle	54%	6	6	12	6	12	6	0%	26%	11%	23%	22%	18%	0.12	0.12	1.50
C52	Circle	44%	6	6	12	6	12	6	0%	32%	13%	21%	20%	21%	0.12	0.12	1.50
C53	Circle	46%	6	6	12	6	12	6	0%	31%	13%	21%	20%	21%	0.12	0.12	1.50
C54	Circle	49%	6	6	12	6	12	6	0%	29%	12%	22%	21%	19%	0.12	0.12	1.50
C55	Circle	36%	6	6	12	6	12	6	0%	37%	15%	20%	18%	24%	0.12	0.12	1.50
C14	Triangle	51%	6	6	12	6	12	6	0%	28%	12%	22%	21%	19%	0.12	0.12	1.50
C15	Triangle	38%	6	6	12	6	12	6	0%	37%	15%	20%	18%	24%	0.12	0.12	1.50
C16	Triangle	31%	6	6	12	6	12	6	0%	40%	17%	19%	18%	26%	0.12	0.	

LLSCSCL66

Panel Layers LowIron-LowIron-Spacer-LowEClear-Spacer-LowEClear			Layers						UV %	Visible Light Transmittance	Total Solar Transmittance	Visible Reflectance		Solar Heat Gain Coefficient	U-Value (BTU/hrft2F)		Light to Solar Gain
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime	
C74	Triangle	47%	6	6	12	6	12	6	0%	30%	13%	22%	21%	20%	0.12	0.12	1.50
C75	Triangle	37%	6	6	12	6	12	6	0%	36%	15%	20%	19%	24%	0.12	0.12	1.50
C76	Triangle	41%	6	6	12	6	12	6	0%	33%	14%	21%	19%	22%	0.12	0.12	1.50
C17	Hexagon	48%	6	6	12	6	12	6	0%	29%	12%	22%	21%	20%	0.12	0.12	1.50
C18	Hexagon	32%	6	6	12	6	12	6	0%	39%	16%	19%	18%	26%	0.12	0.12	1.50
C19	Hexagon	16%	6	6	12	6	12	6	0%	48%	20%	17%	15%	32%	0.12	0.12	1.50
C81	Hexagon	68%	6	6	12	6	12	6	0%	16%	8%	25%	24%	12%	0.12	0.12	1.50
C82	Hexagon	36%	6	6	12	6	12	6	0%	36%	15%	20%	19%	24%	0.12	0.12	1.50
C83	Hexagon	36%	6	6	12	6	12	6	0%	36%	15%	20%	19%	24%	0.12	0.12	1.50
C84	Hexagon	52%	6	6	12	6	12	6	0%	27%	11%	22%	21%	18%	0.12	0.12	1.50
C85	Hexagon	22%	6	6	12	6	12	6	0%	45%	19%	17%	16%	30%	0.12	0.12	1.50
C91	Hexagon	69%	6	6	12	6	12	6	0%	16%	7%	25%	24%	12%	0.12	0.12	1.50
C92	Hexagon	53%	6	6	12	6	12	6	0%	27%	11%	23%	22%	18%	0.12	0.12	1.50
C93	Hexagon	37%	6	6	12	6	12	6	0%	36%	15%	20%	19%	24%	0.12	0.12	1.50
C94	Hexagon	10%	6	6	12	6	12	6	0%	51%	22%	16%	14%	34%	0.12	0.12	1.50
C95	Hexagon	32%	6	6	12	6	12	6	0%	39%	16%	19%	18%	26%	0.12	0.12	1.50
C96	Hexagon	47%	6	6	12	6	12	6	0%	30%	13%	22%	21%	20%	0.12	0.12	1.50
C101	Parallelogram	63%	6	6	12	6	12	6	0%	21%	9%	24%	23%	14%	0.12	0.12	1.50
C102	Parallelogram	30%	6	6	12	6	12	6	0%	40%	17%	19%	17%	27%	0.12	0.12	1.50
C103	Parallelogram	37%	6	6	12	6	12	6	0%	36%	15%	20%	19%	24%	0.12	0.12	1.50
C104	Parallelogram	32%	6	6	12	6	12	6	0%	39%	16%	19%	18%	26%	0.12	0.12	1.50
C105	Parallelogram	23%	6	6	12	6	12	6	0%	44%	18%	18%	16%	29%	0.12	0.12	1.50
C106	Parallelogram	50%	6	6	12	6	12	6	0%	29%	12%	22%	21%	19%	0.12	0.12	1.50
C111	Parallelogram	53%	6	6	12	6	12	6	0%	27%	11%	23%	22%	18%	0.12	0.12	1.50
C112	Parallelogram	40%	6	6	12	6	12	6	0%	34%	14%	20%	19%	23%	0.12	0.12	1.50
C113	Parallelogram	43%	6	6	12	6	12	6	0%	32%	14%	21%	20%	22%	0.12	0.12	1.50
C114	Parallelogram	27%	6	6	12	6	12	6	0%	42%	18%	18%	17%	28%	0.12	0.12	1.50
C115	Parallelogram	40%	6	6	12	6	12	6	0%	34%	14%	20%	19%	23%	0.12	0.12	1.50
C116	Parallelogram	27%	6	6	12	6	12	6	0%	42%	18%	18%	17%	28%	0.12	0.12	1.50

LLSLLE3

Panel Layers			Layers						UV %		Visible Light Transmittance		Total Solar Transmittance		Visible Reflectance		Solar Heat Gain Coefficient		U-Value (BTU/hrft2F)		Light to Solar Gain
LowIron-LowIron-Spacer-LowE-LowIron-Spacer-LowE-LowIron																					
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness	UV %	Visible Light Transmittance	Total Solar Transmittance	Exterior	Interior	Winter Nighttime	Summer Daytime	U-Value	U-Value	Light to Solar Gain			
Non-Active	Any Shape	0%	3	3	12	3	12	3	0%	61%	27%	15%	13%	40%	0.12	0.12	1.53				
A1	Rectangle	92%	3	3	12	3	12	3	0%	5%	2%	23%	29%	3%	0.12	0.12	1.53				
A2	Rectangle	61%	3	3	12	3	12	3	0%	24%	10%	24%	23%	16%	0.12	0.12	1.53				
A3	Rectangle	61%	3	3	12	3	12	3	0%	24%	10%	24%	23%	16%	0.12	0.12	1.53				
A4	Rectangle	31%	3	3	12	3	12	3	0%	42%	19%	20%	18%	28%	0.12	0.12	1.53				
A5	Rectangle	31%	3	3	12	3	12	3	0%	42%	19%	20%	18%	28%	0.12	0.12	1.53				
A6	Rectangle	15%	3	3	12	3	12	3	0%	52%	23%	17%	16%	34%	0.12	0.12	1.53				
A7	Rectangle	31%	3	3	12	3	12	3	0%	42%	19%	20%	18%	28%	0.12	0.12	1.53				
A8	Rectangle	46%	3	3	12	3	12	3	0%	33%	15%	22%	21%	22%	0.12	0.12	1.53				
A21	Rectangle	76%	3	3	12	3	12	3	0%	14%	6%	26%	26%	9%	0.12	0.12	1.53				
A22	Rectangle	38%	3	3	12	3	12	3	0%	38%	17%	21%	19%	25%	0.12	0.12	1.53				
A23	Rectangle	15%	3	3	12	3	12	3	0%	52%	23%	17%	16%	34%	0.12	0.12	1.53				
A24	Rectangle	46%	3	3	12	3	12	3	0%	33%	15%	22%	21%	22%	0.12	0.12	1.53				
A25	Rectangle	31%	3	3	12	3	12	3	0%	42%	19%	20%	18%	28%	0.12	0.12	1.53				
A26	Rectangle	15%	3	3	12	3	12	3	0%	52%	23%	17%	16%	34%	0.12	0.12	1.53				
A27	Rectangle	23%	3	3	12	3	12	3	0%	47%	21%	18%	17%	31%	0.12	0.12	1.53				
A31	Rectangle	31%	3	3	12	3	12	3	0%	42%	19%	20%	18%	28%	0.12	0.12	1.53				
A32	Rectangle	20%	3	3	12	3	12	3	0%	49%	21%	18%	16%	32%	0.12	0.12	1.53				
A33	Rectangle	10%	3	3	12	3	12	3	0%	55%	24%	17%	15%	36%	0.12	0.12	1.53				
A34	Rectangle	5%	3	3	12	3	12	3	0%	58%	26%	16%	14%	38%	0.12	0.12	1.53				
A41	Rectangle	74%	3	3	12	3	12	3	0%	16%	7%	26%	26%	10%	0.12	0.12	1.53				
A42	Rectangle	47%	3	3	12	3	12	3	0%	32%	14%	22%	21%	21%	0.12	0.12	1.53				
A43	Rectangle	14%	3	3	12	3	12	3	0%	52%	23%	17%	15%	34%	0.12	0.12	1.53				
A44	Rectangle	10%	3	3	12	3	12	3	0%	55%	24%	17%	15%	36%	0.12	0.12	1.53				
A45	Rectangle	43%	3	3	12	3	12	3	0%	35%	15%	21%	20%	23%	0.12	0.12	1.53				
A46	Rectangle	60%	3	3	12	3	12	3	0%	24%	11%	24%	23%	16%	0.12	0.12	1.53				
A51	Rectangle	57%	3	3	12	3	12	3	0%	26%	12%	24%	23%	17%	0.12	0.12	1.53				
A52	Rectangle	27%	3	3	12	3	12	3	0%	45%	20%	19%	18%	29%	0.12	0.12	1.53				
A53	Rectangle	22%	3	3	12	3	12	3	0%	48%	21%	18%	17%	31%	0.12	0.12	1.53				
A54	Rectangle	87%	3	3	12	3	12	3	0%	8%	4%	28%	28%	5%	0.12	0.12	1.53				
A55	Rectangle	69%	3	3	12	3	12	3	0%	19%	8%	25%	25%	12%	0.12	0.12	1.53				
A56	Rectangle	61%	3	3	12	3	12	3	0%	24%	10%	24%	23%	16%	0.12	0.12	1.53				
A111	Rectangle	46%	3	3	12	3	12	3	0%	33%	15%	22%	21%	22%	0.12	0.12	1.53				
A112	Rectangle	23%	3	3	12	3	12	3	0%	47%	21%	18%	17%	31%	0.12	0.12	1.53				
A113	Rectangle	23%	3	3	12	3	12	3	0%	47%	21%	18%	17%	31%	0.12	0.12	1.53				
A114	Rectangle	23%	3	3	12	3	12	3	0%	47%	21%	18%	17%	31%	0.12	0.12	1.53				
A115	Rectangle	11%	3	3	12	3	12	3	0%	54%	24%	17%	15%	35%	0.12	0.12	1.53				
A116	Rectangle	34%	3	3	12	3	12	3	0%	40%	18%	20%	19%	26%	0.12	0.12	1.53				
A121	Rectangle	36%	3	3	12	3	12	3	0%	39%	17%	20%	19%	26%	0.12	0.12	1.53				
A122	Rectangle	15%	3	3	12	3	12	3	0%	52%	23%	17%	16%	34%	0.12	0.12	1.53				
A123	Rectangle	20%	3	3	12	3	12	3	0%	49%	21%	18%	16%	32%	0.12	0.12	1.53				
A124	Rectangle	36%	3	3	12	3	12	3	0%	39%	17%	20%	19%	26%	0.12	0.12	1.53				
A125	Rectangle	25%	3	3	12	3	12	3	0%	45%	20%	19%	17%	30%	0.12	0.12	1.53				
A126	Rectangle	18%	3	3	12	3	12	3	0%	50%	22%	18%	16%	33%	0.12	0.12	1.53				
A127	Rectangle	18%	3	3	12	3	12	3	0%	50%	22%	18%	16%	33%	0.12	0.12	1.53				
A128	Rectangle	8%	3	3	12	3	12	3	0%	56%	25%	16%	14%	37%	0.12	0.12	1.53				
B1	Rectangle-Half S	67%	3	3	12	3	12	3	0%	8%	3%	26%	26%	5%	0.12	0.12	1.53				
B2	Rectangle-Half S	58%	3	3	12	3	12	3	0%	25%	11%	24%	23%	17%	0.12	0.12	1.53				
B3	Rectangle-Half S	58%	3	3	12	3	12	3	0%	25%	11%	24%	23%	17%	0.12	0.12	1.53				
B4	Rectangle-Half S	29%	3	3	12	3	12	3	0%	43%	19%	19%	18%	28%	0.12	0.12	1.53				
B5	Rectangle-Half S	29%	3	3	12	3	12	3	0%	43%	19%	19%	18%	28%	0.12	0.12	1.53				
B6	Rectangle-Half S	15%	3	3	12	3	12	3	0%	52%	23%	17%	15%	34%	0.12	0.12	1.53				
B7	Rectangle-Half S	29%	3	3	12	3	12	3	0%	43%	19%	19%	18%	28%	0.12	0.12	1.53				
B8	Rectangle-Half S	44%	3	3	12	3	12	3	0%	34%	15%	22%	20%	23%	0.12	0.12	1.53				
B21	Rectangle-Half S	73%	3	3	12	3	12	3	0%	17%	7%	26%	25%	11%	0.12	0.12	1.53				
B22	Rectangle-Half S	44%	3	3	12	3	12	3	0%	34%	15%	22%	20%	23%	0.12	0.12	1.53				
B23	Rectangle-Half S	15%	3	3	12	3	12	3	0%	52%	23%	17%	15%	34%	0.12	0.12	1.53				
B24	Rectangle-Half S	58%	3	3	12	3	12	3	0%	25%	11%	24%	23%	17%	0.12	0.12	1.53				
B25	Rectangle-Half S	29%	3	3	12	3	12	3	0%	43%	19%	19%	18%	28%	0.12	0.12	1.53				
B26	Rectangle-Half S	44%	3	3	12	3	12	3	0%	34%	15%	22%	20%	23%	0.12	0.12	1.53				
B31	Rectangle-Half S	39%	3	3	12	3	12	3	0%	37%	17%	21%	20%	24%	0.12	0.12	1.53				
B32	Rectangle-Half S	19%	3	3	12	3	12	3	0%	49%	22%	18%	16%	32%	0.12	0.12	1.53				
B33	Rectangle-Half S	39%	3	3	12	3	12	3	0%	37%	17%	20%	19%	24%	0.12	0.12	1.53				
B34	Rectangle-Half S	19%	3	3	12	3	12	3	0%	49%	22%	18%	16%	32%	0.12	0.12	1.53				
B35	Rectangle-Half S	10%	3	3	12	3	12	3	0%	55%	24%	16%	15%	36%	0.12	0.12	1.53				
B36	Rectangle-Half S	32%	3	3	12	3	12	3	0%	42%	18%	20%	18%	27%	0.12	0.12	1.53				
C11	Circle	60%	3	3	12	3	12	3	0%	24%	11%	24%	23%	16%	0.12	0.12	1.53				
C12	Circle	40%	3	3	12	3	12	3	0%	37%	16%	21%	20%	24%	0.12	0.12	1.53				
C13	Circle	20%	3	3	12	3	12	3	0%	49%	22%	18%	16%	32%	0.12	0.12	1.53				
C21	Circle	78%	3	3	12	3	12	3	0%	13%	6%	27%	26%	9%	0.12	0.12	1.53				
C22	Circle	79%	3	3	12	3	12	3	0%	13%	6%	27%	26%	8%	0.12	0.12	1.53				
C23	Circle	42%	3	3	12	3	12	3	0%	35%	16%	21%	20%	23%	0.12	0.12	1.53				
C24	Circle	38%	3	3	12	3	12	3	0%	38%	17%	21%	20%	25%	0.12	0.12	1.53				
C25	Circle	65%	3	3	12	3	12	3	0%	21%	9%	25%	24%	14%	0.12	0.12	1.53				
C31	Circle	70%	3	3	12	3	12	3	0%	18%	8%	26%	25%	12%	0.12	0.12	1.53				
C32	Circle	57%	3	3	12	3	12	3	0%	26%	12%	24%	23%	17%	0.12	0.12	1.53				
C33	Circle	35%	3	3	12	3	12	3	0%	40%	18%	20%	19%	26%	0.12	0.12	1.53				
C34	Circle	63%	3	3	12	3	12	3	0%	23%	10%	24%	24%	15%	0.12	0.12	1.53				
C35	Circle	40%	3	3	12	3	12	3	0%	37%	16%	21%	20%	24%	0.12	0.12	1.53				
C36	Circle	20%	3	3	12	3	12	3	0%	49%	21%	18%	16%	32%	0.12	0.12	1.53				
C41	Circle	52%	3	3	12	3	12	3	0%	29%	13%	23%	22%	19%	0.12	0.12	1.53				
C42	Circle	34%	3	3	12	3	12	3	0%	40%	18%	20%	19%	26%	0.12	0.12	1.53				
C43	Circle	44%	3	3	12	3	12	3	0%	34%	15%	22%	20%	22%	0.12	0.12	1.53				
C51	Circle	54%	3	3	12	3	12	3	0%	28%	12%	23%	22%	18%	0.12	0.12	1.53				
C52	Circle	44%	3	3	12	3	12	3	0%	34%	15%	22%	20%	22%	0.12	0.12	1.53				
C53	Circle	46%	3	3	12	3	12	3	0%	33%	15%	22%	21%	22%	0.12	0.12	1.53				
C54	Circle	49%	3	3	12	3	12	3	0%	31%	14%	22%	21%	20%	0.12	0.12	1.53				
C55	Circle	36%	3	3	12	3	12	3	0%	39%	17%	20%	19%	26%	0.12	0.12	1.53				
C14	Triangle	51%	3	3	12	3	12	3	0%	30%	13%	23%	22%	20%	0.12	0.12	1.53				
C15	Triangle	36%	3	3	12	3	12	3	0%	39%	17%	20%	19%	26%	0.12	0.12	1.53				

LLSLLE3

Panel Layers LowIron-LowIron-Spacer-LowELowIron-Spacer-LowELowIron			Layers							UV %	Visible Light Transmittance	Total Solar Transmittance	Visible Reflectance		Solar Heat Gain Coefficient	U-Value (BTU/hrft2)		Light to Solar Gain
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime		
C74	Triangle	47%	3	3	12	3	12	3	0%	32%	14%	22%	21%	21%	0.12	0.12	1.53	
C75	Triangle	37%	3	3	12	3	12	3	0%	36%	17%	21%	19%	25%	0.12	0.12	1.53	
C76	Triangle	41%	3	3	12	3	12	3	0%	36%	16%	21%	20%	23%	0.12	0.12	1.53	
C17	Hexagon	48%	3	3	12	3	12	3	0%	32%	14%	22%	21%	21%	0.12	0.12	1.53	
C18	Hexagon	32%	3	3	12	3	12	3	0%	41%	18%	20%	18%	27%	0.12	0.12	1.53	
C19	Hexagon	16%	3	3	12	3	12	3	0%	51%	23%	17%	16%	34%	0.12	0.12	1.53	
C81	Hexagon	68%	3	3	12	3	12	3	0%	20%	9%	25%	25%	13%	0.12	0.12	1.53	
C82	Hexagon	36%	3	3	12	3	12	3	0%	39%	17%	20%	19%	25%	0.12	0.12	1.53	
C83	Hexagon	36%	3	3	12	3	12	3	0%	39%	17%	20%	19%	25%	0.12	0.12	1.53	
C84	Hexagon	52%	3	3	12	3	12	3	0%	29%	13%	23%	22%	19%	0.12	0.12	1.53	
C85	Hexagon	22%	3	3	12	3	12	3	0%	48%	21%	18%	17%	31%	0.12	0.12	1.53	
C91	Hexagon	69%	3	3	12	3	12	3	0%	19%	8%	25%	25%	12%	0.12	0.12	1.53	
C92	Hexagon	53%	3	3	12	3	12	3	0%	29%	13%	23%	22%	19%	0.12	0.12	1.53	
C93	Hexagon	37%	3	3	12	3	12	3	0%	38%	17%	21%	19%	25%	0.12	0.12	1.53	
C94	Hexagon	10%	3	3	12	3	12	3	0%	55%	24%	16%	15%	36%	0.12	0.12	1.53	
C95	Hexagon	32%	3	3	12	3	12	3	0%	42%	18%	20%	18%	27%	0.12	0.12	1.53	
C96	Hexagon	47%	3	3	12	3	12	3	0%	32%	14%	22%	21%	21%	0.12	0.12	1.53	
C101	Parallelogram	63%	3	3	12	3	12	3	0%	22%	10%	24%	24%	15%	0.12	0.12	1.53	
C102	Parallelogram	30%	3	3	12	3	12	3	0%	43%	19%	19%	18%	28%	0.12	0.12	1.53	
C103	Parallelogram	37%	3	3	12	3	12	3	0%	35%	17%	20%	19%	25%	0.12	0.12	1.53	
C104	Parallelogram	32%	3	3	12	3	12	3	0%	42%	18%	20%	18%	27%	0.12	0.12	1.53	
C105	Parallelogram	23%	3	3	12	3	12	3	0%	47%	21%	18%	17%	31%	0.12	0.12	1.53	
C106	Parallelogram	50%	3	3	12	3	12	3	0%	31%	14%	22%	21%	20%	0.12	0.12	1.53	
C111	Parallelogram	53%	3	3	12	3	12	3	0%	29%	13%	23%	22%	19%	0.12	0.12	1.53	
C112	Parallelogram	40%	3	3	12	3	12	3	0%	37%	16%	21%	20%	24%	0.12	0.12	1.53	
C113	Parallelogram	43%	3	3	12	3	12	3	0%	35%	15%	21%	20%	23%	0.12	0.12	1.53	
C114	Parallelogram	27%	3	3	12	3	12	3	0%	45%	20%	19%	18%	29%	0.12	0.12	1.53	
C115	Parallelogram	40%	3	3	12	3	12	3	0%	37%	16%	21%	20%	24%	0.12	0.12	1.53	
C116	Parallelogram	27%	3	3	12	3	12	3	0%	45%	20%	19%	18%	29%	0.12	0.12	1.53	

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Panel Layers LowIron-LowIron-Spacer-LowLowIron-Spacer-LowLowIron			Layers						UV %	Visible Light Transmittance	Total Solar Transmittance	Visible Reflectance		Solar Heat Gain Coefficient	U-Value (BTU/hrft2P)		Light to Solar
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime	
Non-Active	Any Shape	0%	4	4	12	4	12	4	0%	61%	27%	15%	13%	40%	0.12	0.12	1.53
A1	Rectangle	52%	4	4	12	4	12	4	0%	5%	2%	23%	29%	3%	0.12	0.12	1.53
A2	Rectangle	61%	4	4	12	4	12	4	0%	24%	10%	24%	23%	16%	0.12	0.12	1.53
A3	Rectangle	61%	4	4	12	4	12	4	0%	24%	10%	24%	23%	16%	0.12	0.12	1.53
A4	Rectangle	31%	4	4	12	4	12	4	0%	42%	19%	20%	18%	28%	0.12	0.12	1.53
A5	Rectangle	31%	4	4	12	4	12	4	0%	42%	19%	20%	18%	28%	0.12	0.12	1.53
A6	Rectangle	15%	4	4	12	4	12	4	0%	52%	23%	17%	16%	34%	0.12	0.12	1.53
A7	Rectangle	31%	4	4	12	4	12	4	0%	42%	19%	20%	18%	28%	0.12	0.12	1.53
A8	Rectangle	46%	4	4	12	4	12	4	0%	33%	15%	22%	21%	22%	0.12	0.12	1.53
A21	Rectangle	76%	4	4	12	4	12	4	0%	14%	6%	26%	26%	9%	0.12	0.12	1.53
A22	Rectangle	38%	4	4	12	4	12	4	0%	38%	17%	21%	19%	25%	0.12	0.12	1.53
A23	Rectangle	15%	4	4	12	4	12	4	0%	52%	23%	17%	16%	34%	0.12	0.12	1.53
A24	Rectangle	46%	4	4	12	4	12	4	0%	33%	15%	22%	21%	22%	0.12	0.12	1.53
A25	Rectangle	31%	4	4	12	4	12	4	0%	42%	19%	20%	18%	28%	0.12	0.12	1.53
A26	Rectangle	15%	4	4	12	4	12	4	0%	52%	23%	17%	16%	34%	0.12	0.12	1.53
A27	Rectangle	23%	4	4	12	4	12	4	0%	47%	21%	18%	17%	31%	0.12	0.12	1.53
A31	Rectangle	31%	4	4	12	4	12	4	0%	42%	19%	20%	18%	28%	0.12	0.12	1.53
A32	Rectangle	20%	4	4	12	4	12	4	0%	49%	21%	18%	16%	32%	0.12	0.12	1.53
A33	Rectangle	10%	4	4	12	4	12	4	0%	55%	24%	17%	15%	36%	0.12	0.12	1.53
A34	Rectangle	5%	4	4	12	4	12	4	0%	58%	26%	16%	14%	38%	0.12	0.12	1.53
A41	Rectangle	74%	4	4	12	4	12	4	0%	16%	7%	26%	26%	10%	0.12	0.12	1.53
A42	Rectangle	47%	4	4	12	4	12	4	0%	32%	14%	22%	21%	21%	0.12	0.12	1.53
A43	Rectangle	14%	4	4	12	4	12	4	0%	52%	23%	17%	15%	34%	0.12	0.12	1.53
A44	Rectangle	10%	4	4	12	4	12	4	0%	55%	24%	17%	15%	36%	0.12	0.12	1.53
A45	Rectangle	43%	4	4	12	4	12	4	0%	35%	15%	21%	20%	23%	0.12	0.12	1.53
A46	Rectangle	60%	4	4	12	4	12	4	0%	24%	11%	24%	23%	16%	0.12	0.12	1.53
A51	Rectangle	57%	4	4	12	4	12	4	0%	26%	12%	24%	23%	17%	0.12	0.12	1.53
A52	Rectangle	27%	4	4	12	4	12	4	0%	45%	20%	19%	18%	29%	0.12	0.12	1.53
A53	Rectangle	22%	4	4	12	4	12	4	0%	48%	21%	18%	17%	31%	0.12	0.12	1.53
A54	Rectangle	87%	4	4	12	4	12	4	0%	8%	4%	28%	28%	5%	0.12	0.12	1.53
A55	Rectangle	69%	4	4	12	4	12	4	0%	19%	8%	25%	25%	12%	0.12	0.12	1.53
A56	Rectangle	61%	4	4	12	4	12	4	0%	24%	10%	24%	23%	16%	0.12	0.12	1.53
A111	Rectangle	46%	4	4	12	4	12	4	0%	33%	15%	22%	21%	22%	0.12	0.12	1.53
A112	Rectangle	23%	4	4	12	4	12	4	0%	47%	21%	18%	17%	31%	0.12	0.12	1.53
A113	Rectangle	23%	4	4	12	4	12	4	0%	47%	21%	18%	17%	31%	0.12	0.12	1.53
A114	Rectangle	23%	4	4	12	4	12	4	0%	47%	21%	18%	17%	31%	0.12	0.12	1.53
A115	Rectangle	11%	4	4	12	4	12	4	0%	54%	24%	17%	15%	35%	0.12	0.12	1.53
A116	Rectangle	34%	4	4	12	4	12	4	0%	40%	18%	20%	19%	26%	0.12	0.12	1.53
A121	Rectangle	36%	4	4	12	4	12	4	0%	39%	17%	20%	19%	26%	0.12	0.12	1.53
A122	Rectangle	15%	4	4	12	4	12	4	0%	52%	23%	17%	16%	34%	0.12	0.12	1.53
A123	Rectangle	20%	4	4	12	4	12	4	0%	49%	21%	18%	16%	32%	0.12	0.12	1.53
A124	Rectangle	36%	4	4	12	4	12	4	0%	39%	17%	20%	19%	26%	0.12	0.12	1.53
A125	Rectangle	25%	4	4	12	4	12	4	0%	45%	20%	19%	17%	30%	0.12	0.12	1.53
A126	Rectangle	18%	4	4	12	4	12	4	0%	50%	22%	18%	16%	33%	0.12	0.12	1.53
A127	Rectangle	18%	4	4	12	4	12	4	0%	50%	22%	18%	16%	33%	0.12	0.12	1.53
A128	Rectangle	8%	4	4	12	4	12	4	0%	56%	25%	16%	14%	37%	0.12	0.12	1.53
B1	Rectangle-Half S	67%	4	4	12	4	12	4	0%	9%	3%	26%	26%	5%	0.12	0.12	1.53
B2	Rectangle-Half S	58%	4	4	12	4	12	4	0%	25%	11%	24%	23%	17%	0.12	0.12	1.53
B3	Rectangle-Half S	58%	4	4	12	4	12	4	0%	25%	11%	24%	23%	17%	0.12	0.12	1.53
B4	Rectangle-Half S	29%	4	4	12	4	12	4	0%	43%	19%	19%	18%	28%	0.12	0.12	1.53
B5	Rectangle-Half S	29%	4	4	12	4	12	4	0%	43%	19%	19%	18%	28%	0.12	0.12	1.53
B6	Rectangle-Half S	15%	4	4	12	4	12	4	0%	52%	23%	17%	15%	34%	0.12	0.12	1.53
B7	Rectangle-Half S	29%	4	4	12	4	12	4	0%	43%	19%	19%	18%	28%	0.12	0.12	1.53
B8	Rectangle-Half S	44%	4	4	12	4	12	4	0%	34%	15%	22%	20%	23%	0.12	0.12	1.53
B21	Rectangle-Half S	73%	4	4	12	4	12	4	0%	17%	7%	26%	25%	11%	0.12	0.12	1.53
B22	Rectangle-Half S	44%	4	4	12	4	12	4	0%	34%	15%	22%	20%	23%	0.12	0.12	1.53
B23	Rectangle-Half S	15%	4	4	12	4	12	4	0%	52%	23%	17%	15%	34%	0.12	0.12	1.53
B24	Rectangle-Half S	58%	4	4	12	4	12	4	0%	25%	11%	24%	23%	17%	0.12	0.12	1.53
B25	Rectangle-Half S	29%	4	4	12	4	12	4	0%	43%	19%	19%	18%	28%	0.12	0.12	1.53
B26	Rectangle-Half S	44%	4	4	12	4	12	4	0%	34%	15%	22%	20%	23%	0.12	0.12	1.53
B31	Rectangle-Half S	39%	4	4	12	4	12	4	0%	37%	17%	21%	20%	24%	0.12	0.12	1.53
B32	Rectangle-Half S	19%	4	4	12	4	12	4	0%	49%	22%	18%	16%	32%	0.12	0.12	1.53
B33	Rectangle-Half S	39%	4	4	12	4	12	4	0%	37%	17%	21%	20%	24%	0.12	0.12	1.53
B34	Rectangle-Half S	19%	4	4	12	4	12	4	0%	49%	22%	18%	16%	32%	0.12	0.12	1.53
B35	Rectangle-Half S	10%	4	4	12	4	12	4	0%	55%	24%	16%	15%	36%	0.12	0.12	1.53
B36	Rectangle-Half S	32%	4	4	12	4	12	4	0%	42%	18%	20%	18%	27%	0.12	0.12	1.53
C11	Circle	60%	4	4	12	4	12	4	0%	24%	11%	24%	23%	16%	0.12	0.12	1.53
C12	Circle	40%	4	4	12	4	12	4	0%	37%	16%	21%	20%	24%	0.12	0.12	1.53
C13	Circle	20%	4	4	12	4	12	4	0%	49%	22%	18%	16%	32%	0.12	0.12	1.53
C21	Circle	78%	4	4	12	4	12	4	0%	13%	6%	27%	26%	9%	0.12	0.12	1.53
C22	Circle	79%	4	4	12	4	12	4	0%	13%	6%	27%	26%	8%	0.12	0.12	1.53
C23	Circle	42%	4	4	12	4	12	4	0%	35%	16%	21%	20%	23%	0.12	0.12	1.53
C24	Circle	38%	4	4	12	4	12	4	0%	38%	17%	21%	20%	25%	0.12	0.12	1.53
C25	Circle	65%	4	4	12	4	12	4	0%	21%	9%	25%	24%	14%	0.12	0.12	1.53
C31	Circle	70%	4	4	12	4	12	4	0%	18%	8%	26%	25%	12%	0.12	0.12	1.53
C32	Circle	57%	4	4	12	4	12	4	0%	26%	12%	24%	23%	17%	0.12	0.12	1.53
C33	Circle	35%	4	4	12	4	12	4	0%	40%	18%	20%	19%	26%	0.12	0.12	1.53
C34	Circle	63%	4	4	12	4	12	4	0%	23%	10%	24%	24%	15%	0.12	0.12	1.53
C35	Circle	40%	4	4	12	4	12	4	0%	37%	16%	21%	20%	24%	0.12	0.12	1.53
C36	Circle	20%	4	4	12	4	12	4	0%	49%	21%	18%	16%	32%	0.12	0.12	1.53
C41	Circle	52%	4	4	12	4	12	4	0%	29%	13%	23%	22%	19%	0.12	0.12	1.53
C42	Circle	34%	4	4	12	4	12	4	0%	40%	18%	20%	19%	26%	0.12	0.12	1.53
C43	Circle	44%	4	4	12	4	12	4	0%	34%	15%	22%	20%	22%	0.12	0.12	1.53
C51	Circle	54%	4	4	12	4	12	4	0%	28%	12%	23%	22%	18%	0.12	0.12	1.53
C52	Circle	44%	4	4	12	4	12	4	0%	34%	15%	22%	20%	22%	0.12	0.12	1.53
C53	Circle	46%	4	4	12	4	12	4	0%	33%	15%	22%	21%	22%	0.12	0.12	1.53
C54	Circle	49%	4	4	12	4	12	4	0%	31%	14%	22%	21%	20%	0.12	0.12	1.53
C55	Circle	36%	4	4	12	4	12	4	0%	39%	17%	20%	19%	26%	0.12	0.12	1.53
C14	Triangle	51%	4	4	12	4	12	4	0%	30%	13%	23%	22%	20%	0.12	0.12	1.53
C15	Triangle	36%	4	4	12	4	12	4	0%	39%	17%	20%	19%	26%	0.12	0.12	1.53
C16	Triangle	31%	4	4	12	4	12	4	0%	42%	19%	20%	18%	28%	0.12		

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Panel Layers LowIron-LowIron-Spacer-LowELowIron-Spacer-LowELowIron			Layers							UV %	Visible Light Transmittance	Total Solar Transmittance	Visible Reflectance		Solar Heat Gain Coefficient	U-Value (BTU/hrft2F)		Light to Solar Gain
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime		
C74	Triangle	47%	4	4	12	4	12	4	0%	32%	14%	22%	21%	21%	0.12	0.12	1.53	
C75	Triangle	37%	4	4	12	4	12	4	0%	36%	17%	21%	19%	25%	0.12	0.12	1.53	
C76	Triangle	41%	4	4	12	4	12	4	0%	36%	16%	21%	20%	23%	0.12	0.12	1.53	
C17	Hexagon	48%	4	4	12	4	12	4	0%	32%	14%	22%	21%	21%	0.12	0.12	1.53	
C18	Hexagon	32%	4	4	12	4	12	4	0%	41%	18%	20%	18%	27%	0.12	0.12	1.53	
C19	Hexagon	16%	4	4	12	4	12	4	0%	51%	23%	17%	16%	34%	0.12	0.12	1.53	
C81	Hexagon	68%	4	4	12	4	12	4	0%	20%	9%	25%	25%	13%	0.12	0.12	1.53	
C82	Hexagon	36%	4	4	12	4	12	4	0%	39%	17%	20%	19%	25%	0.12	0.12	1.53	
C83	Hexagon	36%	4	4	12	4	12	4	0%	39%	17%	20%	19%	25%	0.12	0.12	1.53	
C84	Hexagon	52%	4	4	12	4	12	4	0%	29%	13%	23%	22%	19%	0.12	0.12	1.53	
C85	Hexagon	22%	4	4	12	4	12	4	0%	48%	21%	18%	17%	31%	0.12	0.12	1.53	
C81	Hexagon	69%	4	4	12	4	12	4	0%	19%	8%	25%	25%	12%	0.12	0.12	1.53	
C82	Hexagon	53%	4	4	12	4	12	4	0%	29%	13%	23%	22%	19%	0.12	0.12	1.53	
C83	Hexagon	37%	4	4	12	4	12	4	0%	38%	17%	21%	19%	25%	0.12	0.12	1.53	
C94	Hexagon	10%	4	4	12	4	12	4	0%	55%	24%	16%	15%	36%	0.12	0.12	1.53	
C95	Hexagon	32%	4	4	12	4	12	4	0%	42%	18%	20%	18%	27%	0.12	0.12	1.53	
C96	Hexagon	47%	4	4	12	4	12	4	0%	32%	14%	22%	21%	21%	0.12	0.12	1.53	
C101	Parallelogram	63%	4	4	12	4	12	4	0%	22%	10%	24%	24%	15%	0.12	0.12	1.53	
C102	Parallelogram	30%	4	4	12	4	12	4	0%	43%	19%	19%	18%	28%	0.12	0.12	1.53	
C103	Parallelogram	37%	4	4	12	4	12	4	0%	39%	17%	20%	19%	25%	0.12	0.12	1.53	
C104	Parallelogram	32%	4	4	12	4	12	4	0%	42%	18%	20%	18%	27%	0.12	0.12	1.53	
C105	Parallelogram	23%	4	4	12	4	12	4	0%	47%	21%	18%	17%	31%	0.12	0.12	1.53	
C106	Parallelogram	50%	4	4	12	4	12	4	0%	31%	14%	22%	21%	20%	0.12	0.12	1.53	
C111	Parallelogram	53%	4	4	12	4	12	4	0%	29%	13%	23%	22%	19%	0.12	0.12	1.53	
C112	Parallelogram	40%	4	4	12	4	12	4	0%	37%	16%	21%	20%	24%	0.12	0.12	1.53	
C113	Parallelogram	43%	4	4	12	4	12	4	0%	35%	15%	21%	20%	23%	0.12	0.12	1.53	
C114	Parallelogram	27%	4	4	12	4	12	4	0%	45%	20%	19%	18%	29%	0.12	0.12	1.53	
C115	Parallelogram	40%	4	4	12	4	12	4	0%	37%	16%	21%	20%	24%	0.12	0.12	1.53	
C116	Parallelogram	27%	4	4	12	4	12	4	0%	45%	20%	19%	18%	29%	0.12	0.12	1.53	

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Panel Layers LowIron-LowIron-Spacer-LowLowIron-Spacer-LowLowIron				Layers					UV %	Visible Light Transmittance	Total Solar Transmittance	Visible Reflectance		Solar Heat Gain Coefficient	U-Value (BTU/hrft ²)		Light to Solar Gain
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness			Exterior	Interior		Winter Nighttime	Summer Daytime		
Non-Active	Any Shape	0%	6	6	12	6	12	6	0%	60%						1.54	
A1	Rectangle	92%	6	6	12	6	12	6	0%	5%	2%	20%	20%	3%	0.12	1.54	
A2	Rectangle	61%	6	6	12	6	12	6	0%	23%	10%	24%	23%	15%	0.12	1.54	
A3	Rectangle	61%	6	6	12	6	12	6	0%	23%	10%	24%	23%	15%	0.12	1.54	
A4	Rectangle	31%	6	6	12	6	12	6	0%	42%	19%	20%	18%	27%	0.12	1.54	
A5	Rectangle	31%	6	6	12	6	12	6	0%	42%	19%	20%	18%	27%	0.12	1.54	
A6	Rectangle	15%	6	6	12	6	12	6	0%	51%	23%	17%	16%	33%	0.12	1.54	
A7	Rectangle	31%	6	6	12	6	12	6	0%	42%	19%	20%	18%	27%	0.12	1.54	
A8	Rectangle	46%	6	6	12	6	12	6	0%	32%	15%	22%	21%	21%	0.12	1.54	
A21	Rectangle	76%	6	6	12	6	12	6	0%	14%	6%	26%	26%	9%	0.12	1.54	
A22	Rectangle	38%	6	6	12	6	12	6	0%	37%	17%	21%	19%	24%	0.12	1.54	
A23	Rectangle	15%	6	6	12	6	12	6	0%	51%	23%	17%	16%	33%	0.12	1.54	
A24	Rectangle	46%	6	6	12	6	12	6	0%	32%	15%	22%	21%	21%	0.12	1.54	
A25	Rectangle	31%	6	6	12	6	12	6	0%	42%	19%	20%	18%	27%	0.12	1.54	
A26	Rectangle	15%	6	6	12	6	12	6	0%	51%	23%	17%	16%	33%	0.12	1.54	
A27	Rectangle	23%	6	6	12	6	12	6	0%	46%	21%	19%	17%	30%	0.12	1.54	
A31	Rectangle	31%	6	6	12	6	12	6	0%	42%	19%	20%	18%	27%	0.12	1.54	
A32	Rectangle	20%	6	6	12	6	12	6	0%	48%	21%	18%	16%	31%	0.12	1.54	
A33	Rectangle	10%	6	6	12	6	12	6	0%	54%	24%	17%	15%	35%	0.12	1.54	
A34	Rectangle	5%	6	6	12	6	12	6	0%	57%	26%	16%	14%	37%	0.12	1.54	
A41	Rectangle	74%	6	6	12	6	12	6	0%	16%	7%	26%	26%	10%	0.12	1.54	
A42	Rectangle	47%	6	6	12	6	12	6	0%	32%	14%	22%	21%	21%	0.12	1.54	
A43	Rectangle	14%	6	6	12	6	12	6	0%	52%	23%	17%	15%	34%	0.12	1.54	
A44	Rectangle	10%	6	6	12	6	12	6	0%	54%	24%	17%	15%	35%	0.12	1.54	
A45	Rectangle	43%	6	6	12	6	12	6	0%	34%	15%	21%	20%	22%	0.12	1.54	
A46	Rectangle	60%	6	6	12	6	12	6	0%	24%	11%	24%	23%	16%	0.12	1.54	
A51	Rectangle	57%	6	6	12	6	12	6	0%	26%	12%	24%	23%	17%	0.12	1.54	
A52	Rectangle	27%	6	6	12	6	12	6	0%	44%	20%	19%	18%	29%	0.12	1.54	
A53	Rectangle	22%	6	6	12	6	12	6	0%	47%	21%	18%	17%	31%	0.12	1.54	
A54	Rectangle	87%	6	6	12	6	12	6	0%	8%	4%	28%	28%	5%	0.12	1.54	
A55	Rectangle	69%	6	6	12	6	12	6	0%	19%	8%	25%	25%	12%	0.12	1.54	
A56	Rectangle	61%	6	6	12	6	12	6	0%	23%	10%	24%	23%	15%	0.12	1.54	
A111	Rectangle	46%	6	6	12	6	12	6	0%	32%	15%	22%	21%	21%	0.12	1.54	
A112	Rectangle	23%	6	6	12	6	12	6	0%	46%	21%	18%	17%	30%	0.12	1.54	
A113	Rectangle	23%	6	6	12	6	12	6	0%	46%	21%	18%	17%	30%	0.12	1.54	
A114	Rectangle	23%	6	6	12	6	12	6	0%	46%	21%	18%	17%	30%	0.12	1.54	
A115	Rectangle	11%	6	6	12	6	12	6	0%	53%	24%	17%	15%	35%	0.12	1.54	
A116	Rectangle	34%	6	6	12	6	12	6	0%	39%	18%	20%	19%	26%	0.12	1.54	
A121	Rectangle	36%	6	6	12	6	12	6	0%	39%	17%	20%	19%	25%	0.12	1.54	
A122	Rectangle	15%	6	6	12	6	12	6	0%	51%	23%	17%	16%	33%	0.12	1.54	
A123	Rectangle	20%	6	6	12	6	12	6	0%	48%	21%	18%	16%	31%	0.12	1.54	
A124	Rectangle	36%	6	6	12	6	12	6	0%	39%	17%	20%	19%	25%	0.12	1.54	
A125	Rectangle	25%	6	6	12	6	12	6	0%	45%	20%	19%	17%	29%	0.12	1.54	
A126	Rectangle	18%	6	6	12	6	12	6	0%	49%	22%	18%	16%	32%	0.12	1.54	
A127	Rectangle	18%	6	6	12	6	12	6	0%	49%	22%	18%	16%	32%	0.12	1.54	
A128	Rectangle	8%	6	6	12	6	12	6	0%	55%	25%	16%	14%	36%	0.12	1.54	
B1	Rectangle-Half S	97%	6	6	12	6	12	6	0%	9%	3%	26%	26%	5%	0.12	1.54	
B2	Rectangle-Half S	58%	6	6	12	6	12	6	0%	25%	11%	24%	23%	16%	0.12	1.54	
B3	Rectangle-Half S	58%	6	6	12	6	12	6	0%	25%	11%	24%	23%	16%	0.12	1.54	
B4	Rectangle-Half S	29%	6	6	12	6	12	6	0%	43%	19%	19%	18%	28%	0.12	1.54	
B5	Rectangle-Half S	29%	6	6	12	6	12	6	0%	43%	19%	19%	18%	28%	0.12	1.54	
B6	Rectangle-Half S	15%	6	6	12	6	12	6	0%	51%	23%	17%	15%	33%	0.12	1.54	
B7	Rectangle-Half S	29%	6	6	12	6	12	6	0%	43%	19%	19%	18%	28%	0.12	1.54	
B8	Rectangle-Half S	44%	6	6	12	6	12	6	0%	34%	15%	22%	20%	22%	0.12	1.54	
B21	Rectangle-Half S	73%	6	6	12	6	12	6	0%	16%	7%	26%	25%	11%	0.12	1.54	
B22	Rectangle-Half S	44%	6	6	12	6	12	6	0%	34%	15%	22%	20%	22%	0.12	1.54	
B23	Rectangle-Half S	15%	6	6	12	6	12	6	0%	51%	23%	17%	15%	33%	0.12	1.54	
B24	Rectangle-Half S	58%	6	6	12	6	12	6	0%	25%	11%	24%	23%	16%	0.12	1.54	
B25	Rectangle-Half S	29%	6	6	12	6	12	6	0%	43%	19%	19%	18%	28%	0.12	1.54	
B26	Rectangle-Half S	44%	6	6	12	6	12	6	0%	34%	15%	22%	20%	22%	0.12	1.54	
B31	Rectangle-Half S	39%	6	6	12	6	12	6	0%	37%	17%	21%	20%	24%	0.12	1.54	
B32	Rectangle-Half S	19%	6	6	12	6	12	6	0%	48%	22%	18%	16%	31%	0.12	1.54	
B33	Rectangle-Half S	39%	6	6	12	6	12	6	0%	37%	17%	21%	20%	24%	0.12	1.54	
B34	Rectangle-Half S	19%	6	6	12	6	12	6	0%	48%	22%	18%	16%	31%	0.12	1.54	
B35	Rectangle-Half S	10%	6	6	12	6	12	6	0%	54%	24%	16%	15%	35%	0.12	1.54	
B36	Rectangle-Half S	32%	6	6	12	6	12	6	0%	41%	18%	20%	18%	27%	0.12	1.54	
C11	Circle	60%	6	6	12	6	12	6	0%	24%	11%	24%	23%	16%	0.12	1.54	
C12	Circle	40%	6	6	12	6	12	6	0%	36%	16%	21%	20%	23%	0.12	1.54	
C13	Circle	20%	6	6	12	6	12	6	0%	48%	22%	18%	16%	31%	0.12	1.54	
C21	Circle	78%	6	6	12	6	12	6	0%	13%	6%	27%	26%	8%	0.12	1.54	
C22	Circle	79%	6	6	12	6	12	6	0%	13%	6%	27%	26%	8%	0.12	1.54	
C23	Circle	42%	6	6	12	6	12	6	0%	35%	16%	21%	20%	22%	0.12	1.54	
C24	Circle	38%	6	6	12	6	12	6	0%	37%	17%	21%	20%	24%	0.12	1.54	
C25	Circle	65%	6	6	12	6	12	6	0%	21%	9%	25%	24%	14%	0.12	1.54	
C31	Circle	70%	6	6	12	6	12	6	0%	18%	8%	26%	25%	12%	0.12	1.54	
C32	Circle	57%	6	6	12	6	12	6	0%	26%	12%	24%	23%	17%	0.12	1.54	
C33	Circle	35%	6	6	12	6	12	6	0%	39%	18%	20%	19%	25%	0.12	1.54	
C34	Circle	63%	6	6	12	6	12	6	0%	22%	10%	24%	24%	15%	0.12	1.54	
C35	Circle	40%	6	6	12	6	12	6	0%	36%	16%	21%	20%	23%	0.12	1.54	
C36	Circle	20%	6	6	12	6	12	6	0%	48%	21%	18%	16%	31%	0.12	1.54	
C41	Circle	52%	6	6	12	6	12	6	0%	29%	13%	23%	22%	19%	0.12	1.54	
C42	Circle	34%	6	6	12	6	12	6	0%	39%	18%	20%	19%	25%	0.12	1.54	
C43	Circle	44%	6	6	12	6	12	6	0%	34%	15%	22%	20%	22%	0.12	1.54	
C51	Circle	54%	6	6	12	6	12	6	0%	28%	12%	23%	22%	18%	0.12	1.54	
C52	Circle	44%	6	6	12	6	12	6	0%</								

LLSLLE6

Panel Layers LowIron-LowIron-Spacer-LowELowIron-Spacer-LowELowIron			Layers						UV %	Visible Light Transmittance	Total Solar Transmittance	Visible Reflectance		Solar Heat Gain Coefficient	U-Value (BTU/hrft2F)		Light to Solar Gain
Panel Type	Shape	Cell Coverage Area	Glass L1 Thickness	Glass L2 Thickness	Spacer Size	Glass L3 Thickness	Spacer Size	Glass L4 Thickness				Exterior	Interior		Winter Nighttime	Summer Daytime	
C74	Triangle	47%	6	6	12	6	12	6	0%	32%	14%	22%	21%	21%	0.12	0.12	1.54
C75	Triangle	37%	6	6	12	6	12	6	0%	38%	17%	21%	19%	25%	0.12	0.12	1.54
C76	Triangle	41%	6	6	12	6	12	6	0%	35%	16%	21%	20%	23%	0.12	0.12	1.54
C17	Hexagon	48%	6	6	12	6	12	6	0%	31%	14%	22%	21%	20%	0.12	0.12	1.54
C18	Hexagon	32%	6	6	12	6	12	6	0%	41%	18%	20%	18%	26%	0.12	0.12	1.54
C19	Hexagon	16%	6	6	12	6	12	6	0%	50%	23%	17%	16%	33%	0.12	0.12	1.54
C81	Hexagon	68%	6	6	12	6	12	6	0%	19%	9%	25%	25%	12%	0.12	0.12	1.54
C82	Hexagon	36%	6	6	12	6	12	6	0%	38%	17%	20%	19%	25%	0.12	0.12	1.54
C83	Hexagon	36%	6	6	12	6	12	6	0%	38%	17%	20%	19%	25%	0.12	0.12	1.54
C84	Hexagon	52%	6	6	12	6	12	6	0%	29%	13%	23%	22%	19%	0.12	0.12	1.54
C85	Hexagon	22%	6	6	12	6	12	6	0%	47%	21%	18%	17%	31%	0.12	0.12	1.54
C91	Hexagon	69%	6	6	12	6	12	6	0%	19%	8%	25%	25%	12%	0.12	0.12	1.54
C92	Hexagon	53%	6	6	12	6	12	6	0%	28%	13%	23%	22%	18%	0.12	0.12	1.54
C93	Hexagon	37%	6	6	12	6	12	6	0%	38%	17%	21%	19%	24%	0.12	0.12	1.54
C94	Hexagon	10%	6	6	12	6	12	6	0%	54%	24%	16%	15%	35%	0.12	0.12	1.54
C95	Hexagon	32%	6	6	12	6	12	6	0%	41%	18%	20%	18%	27%	0.12	0.12	1.54
C96	Hexagon	47%	6	6	12	6	12	6	0%	32%	14%	22%	21%	21%	0.12	0.12	1.54
C101	Parallelogram	63%	6	6	12	6	12	6	0%	22%	10%	24%	24%	14%	0.12	0.12	1.54
C102	Parallelogram	30%	6	6	12	6	12	6	0%	42%	19%	19%	18%	27%	0.12	0.12	1.54
C103	Parallelogram	37%	6	6	12	6	12	6	0%	38%	17%	20%	19%	25%	0.12	0.12	1.54
C104	Parallelogram	32%	6	6	12	6	12	6	0%	41%	18%	20%	18%	27%	0.12	0.12	1.54
C105	Parallelogram	23%	6	6	12	6	12	6	0%	46%	21%	18%	17%	30%	0.12	0.12	1.54
C106	Parallelogram	50%	6	6	12	6	12	6	0%	30%	14%	22%	21%	20%	0.12	0.12	1.54
C111	Parallelogram	53%	6	6	12	6	12	6	0%	28%	13%	23%	22%	18%	0.12	0.12	1.54
C112	Parallelogram	40%	6	6	12	6	12	6	0%	36%	16%	21%	20%	23%	0.12	0.12	1.54
C113	Parallelogram	43%	6	6	12	6	12	6	0%	34%	15%	21%	20%	22%	0.12	0.12	1.54
C114	Parallelogram	27%	6	6	12	6	12	6	0%	44%	20%	19%	18%	29%	0.12	0.12	1.54
C115	Parallelogram	40%	6	6	12	6	12	6	0%	36%	16%	21%	20%	23%	0.12	0.12	1.54
C116	Parallelogram	27%	6	6	12	6	12	6	0%	44%	20%	19%	18%	29%	0.12	0.12	1.54

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