NFRC CMAST

Last Updated October 2019

U-Factor, SHGC & VT Simulated Values with **SuperLite II-XL, SuperClear 45-HS, SuperClear 45-HS-LI** and **GPX Framing** by **SAFTI *FIRST***

General Disclaimer:

The values shown here are simulations performed in CMAST using NFRC's standard test sizes. They serve as general performance indicators or predictors only. U-Factors and thermal performance are general weighted averages comprised of center of glass, glass edge and framing values, while SHGC is predicated on the coatings. Overall size, configuration and quantities may impact performance levels.

Designers may request project-specific NFRC Bid Reports using the sizes and configurations for that project. These bid reports are for design purposes only and are not official NFRC Label Certificates. If NFRC Label Certificates are needed, it may be requested and provided for a fee.

*Starphire versions of SuperLite II-XL products are also available. Please note that **SAFTI FIRST** can only simulate U-Factors, SHGC and VT on products that are available in CMAST.*

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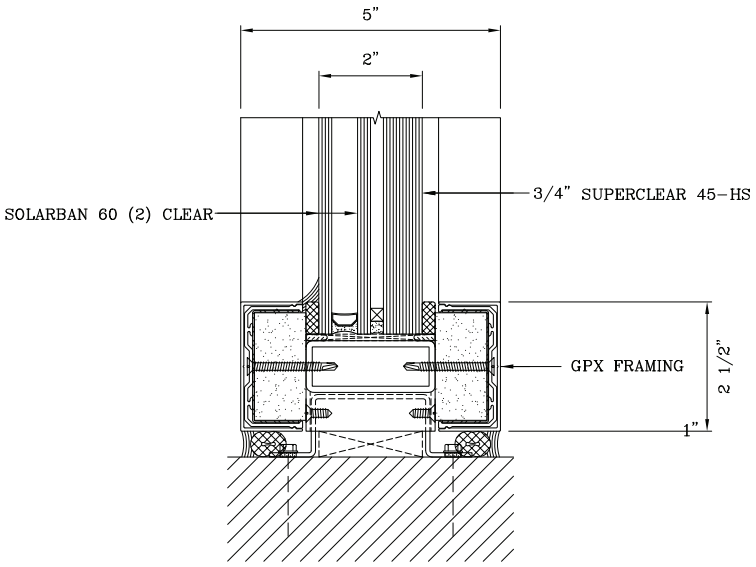
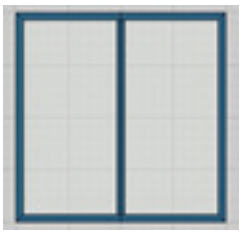
NFRC CMAST U-Factor, SHGC and VT Simulated Values

All sizes are based on NFRC standard test sizes in CMAST

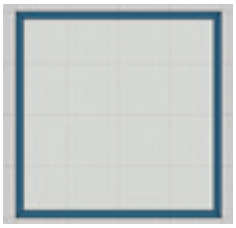
1" Solarban 60 (2) Clear + ¼" Argon + SuperClear 45-HS in GPX Framing





Curtain Wall with Vertical Mullions - 78.74 in. x 78.74 in.

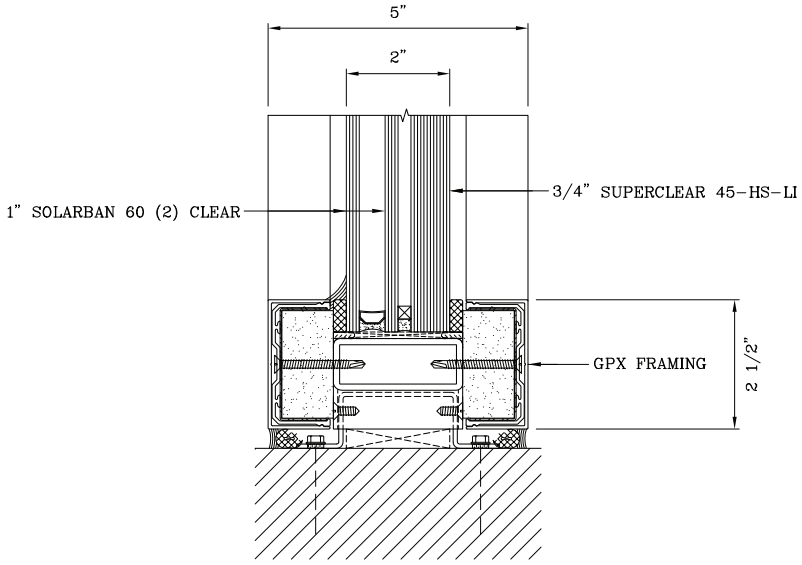
U-Factor: 0.259
SHGC: 0.295
VT: 0.484

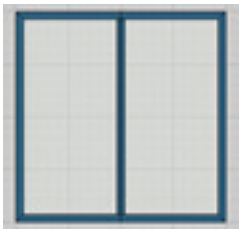


Punched Opening - 47.24 in. x 59.06 in.

U-Factor: 0.263
SHGC: 0.286
VT: 0.467

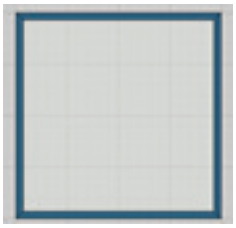
1" Solarban 60 (2) Clear + ¼" Argon + SuperClear 45-HS-LI in GPX Framing





Curtain Wall with Vertical Mullions - 78.74 in. x 78.74 in.

U-Factor: 0.259
SHGC: 0.300
VT: 0.522



Punched Opening - 47.24 in. x 59.06 in.

U-Factor: 0.263
SHGC: 0.291
VT: 0.504

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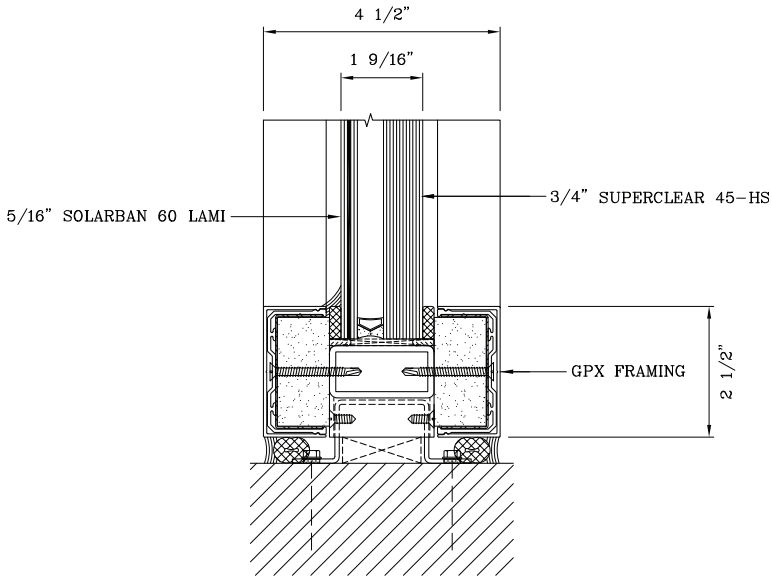
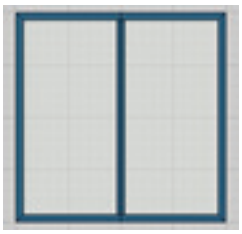
NFRC CMAST U-Factor, SHGC and VT Simulated Values

All sizes are based on NFRC standard test sizes in CMAST

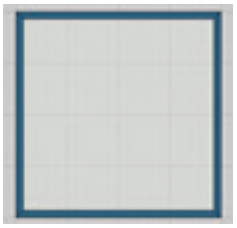
5/16" Solarban 60 Lami + ½" Argon + SuperClear 45-HS in GPX Framing





Curtain Wall with Vertical Mullions - 78.74 in. x 78.74 in.

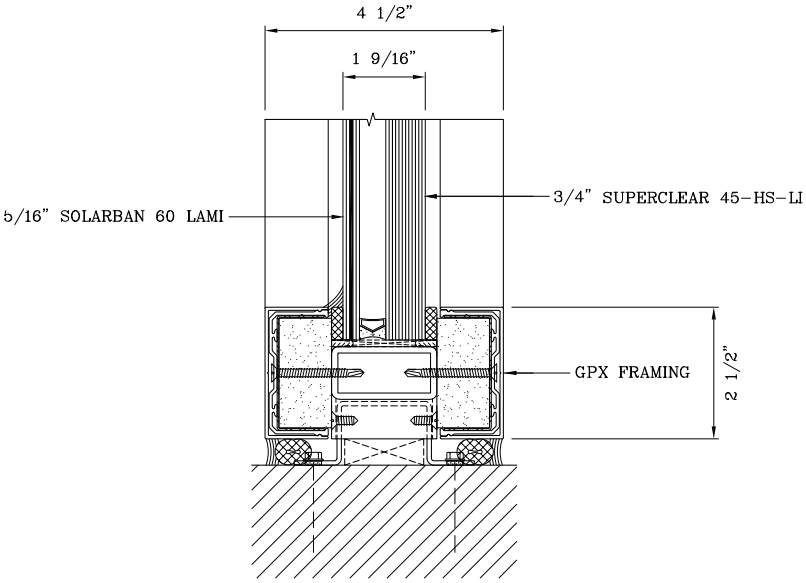
U-Factor: 0.420
SHGC: 0.301
VT: 0.517

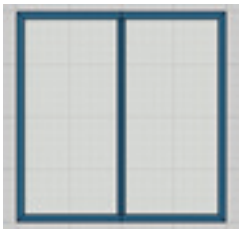


Punched Opening - 47.24 in. x 59.06 in.

U-Factor: 0.420
SHGC: 0.293
VT: 0.500

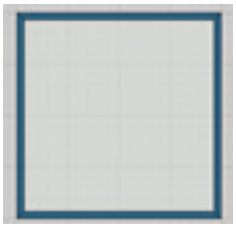
5/16" Solarban 60 Lami + ½" Argon + SuperClear 45-HS-LI in GPX Framing





Curtain Wall with Vertical Mullions - 78.74 in. x 78.74 in.

U-Factor: 0.420
SHGC: 0.301
VT: 0.594



Punched Opening - 47.24 in. x 59.06 in.

U-Factor: 0.420
SHGC: 0.306
VT: 0.539

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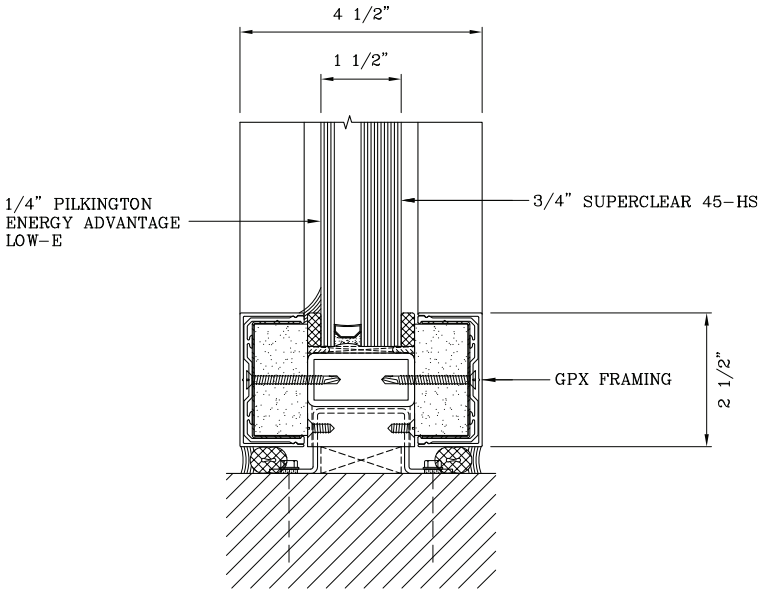
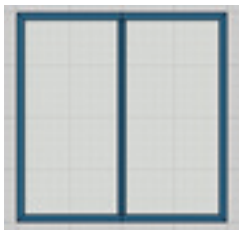
NFRC CMAST U-Factor, SHGC and VT Simulated Values

All sizes are based on NFRC standard test sizes in CMAST

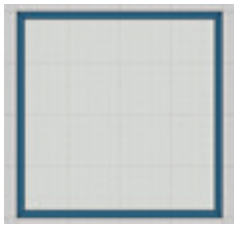
¼" Pilkington Energy Advantage Low-E + ½" Argon + SuperClear 45-HS in GPX Framing





Curtain Wall with Vertical Mullions - 78.74 in. x 78.74 in.

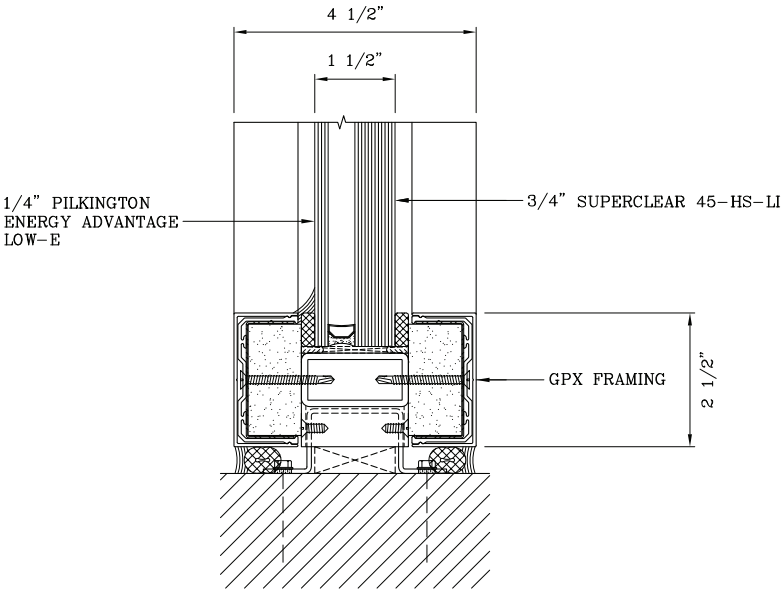
U-Factor: 0.423
SHGC: 0.500
VT: 0.570

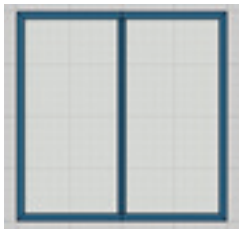


Punched Opening - 47.24 in. x 59.06 in.

U-Factor: 0.423
SHGC: 0.485
VT: 0.551

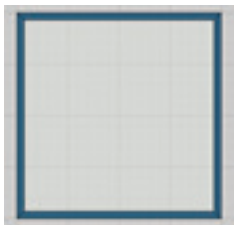
¼" Pilkington Energy Advantage Low-E + ½" Argon + SuperClear 45-HS-LI in GPX Framing





Curtain Wall with Vertical Mullions - 78.74 in. x 78.74 in.

U-Factor: 0.423
SHGC: 0.541
VT: 0.615



Punched Opening - 47.24 in. x 59.06 in.

U-Factor: 0.423
SHGC: 0.524
VT: 0.594

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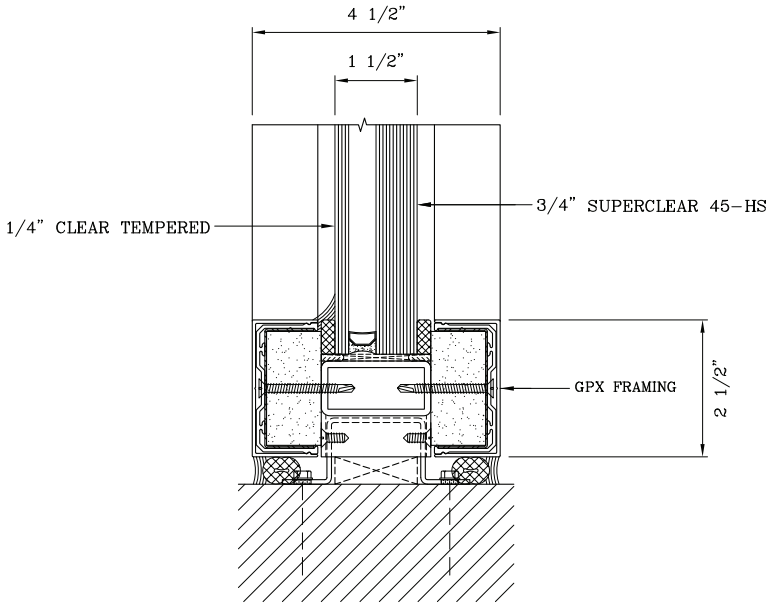
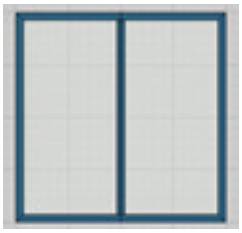
NFRC CMAST U-Factor, SHGC and VT Simulated Values

All sizes are based on NFRC standard test sizes in CMAST

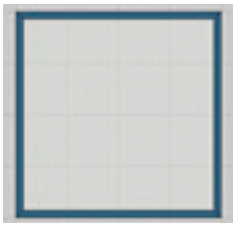
¼" Clear Tempered + ½" Argon + SuperClear 45-HS in GPX Framing





Curtain Wall with Vertical Mullions - 78.74 in. x 78.74 in.

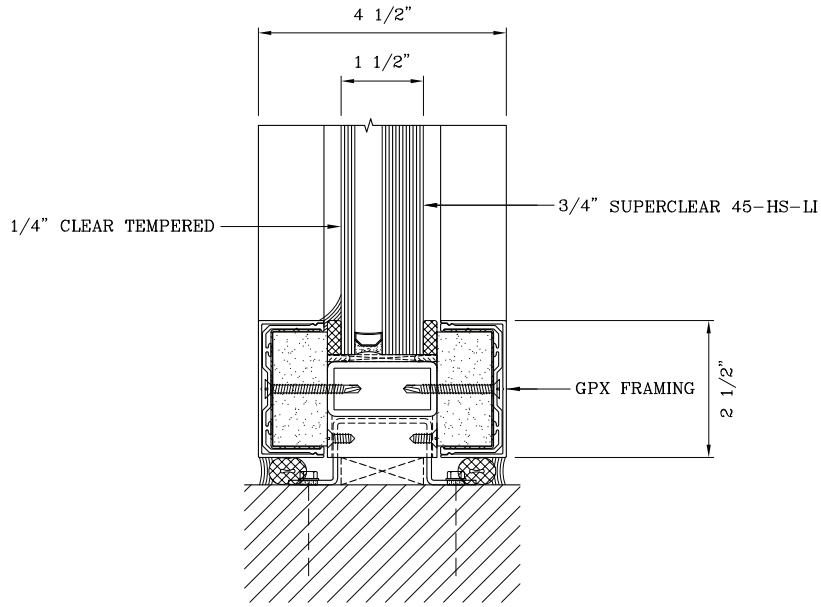
U-Factor: 0.426
SHGC: 0.557
VT: 0.615

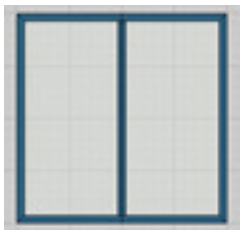


Punched Opening - 47.24 in. x 59.06 in.

U-Factor: 0.426
SHGC: 0.540
VT: 0.594

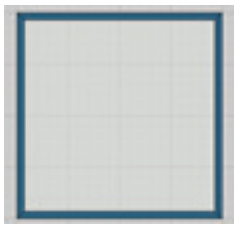
¼" Clear Tempered + ½" Argon + SuperClear 45-HS-LI in GPX Framing





Curtain Wall with Vertical Mullions - 78.74 in. x 78.74 in.

U-Factor: 0.426
SHGC: 0.607
VT: 0.663



Punched Opening - 47.24 in. x 59.06 in.

U-Factor: 0.426
SHGC: 0.588
VT: 0.641

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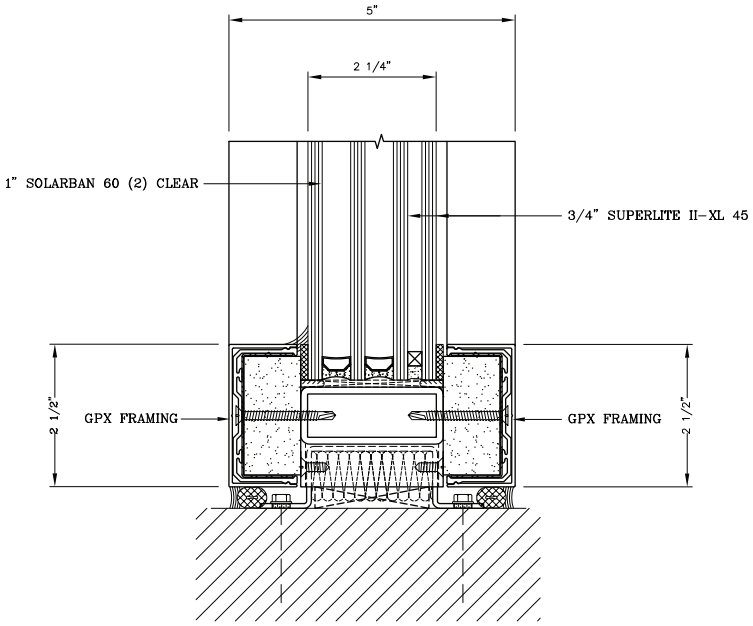
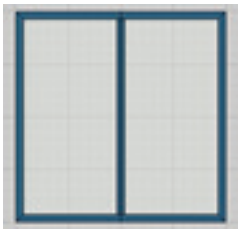
NFRC CMAST U-Factor, SHGC and VT Simulated Values

All sizes are based on NFRC standard test sizes in CMAST

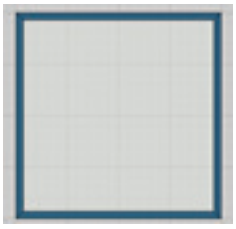
1" Solarban 60 (2) Clear + ½" Argon + SuperLite II-XL 45 in GPX Framing





Curtain Wall with Vertical Mullions - 78.74 in. x 78.74 in.

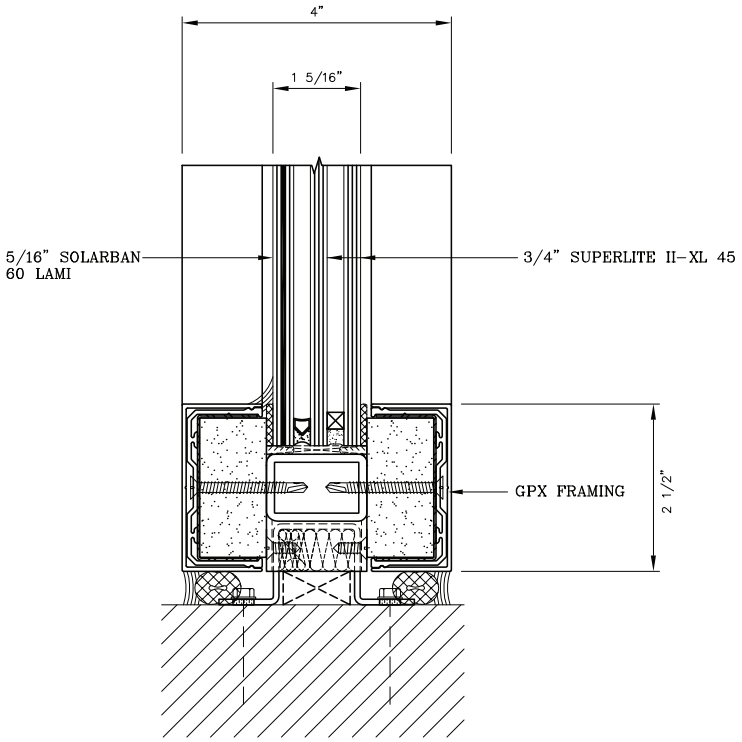
U-Factor: 0.247
SHGC: 0.292
VT: 0.50

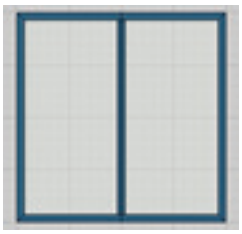


Punched Opening - 47.24 in. x 59.06 in.

U-Factor: 0.252
SHGC: 0.283
VT: 0.483

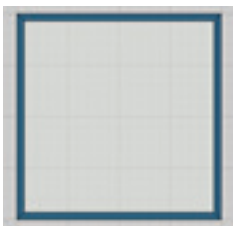
5/16" Solarban 60 Lami + ¼" Argon + SuperLite II-XL 45 in GPX Framing





Curtain Wall with Vertical Mullions - 78.74 in. x 78.74 in.

U-Factor: 0.439
SHGC: 0.304
VT: 0.535



Punched Opening - 47.24 in. x 59.06 in.

U-Factor: 0.438
SHGC: 0.295
VT: 0.517

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NFRC CMAST U-Factor, SHGC and VT Simulated Values

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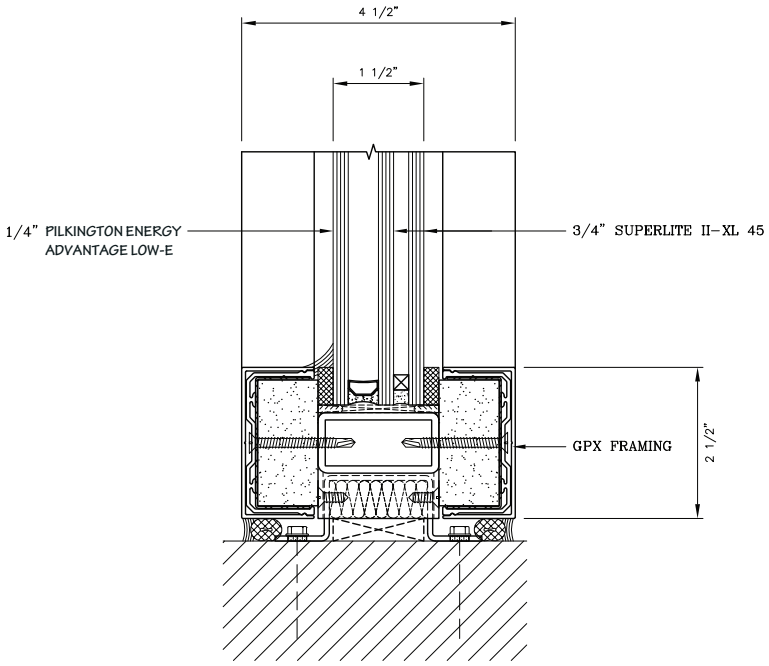
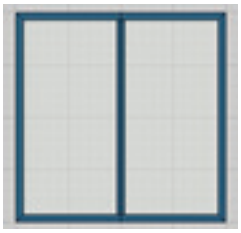
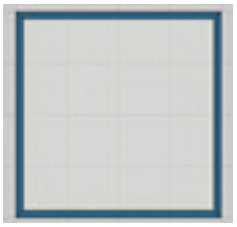
¼" Pilkington Energy Advantage Low-E + ½" Argon + SuperLite II-XL 45 in GPX Framing





Curtain Wall with Vertical Mullions - 78.74 in. x 78.74 in.

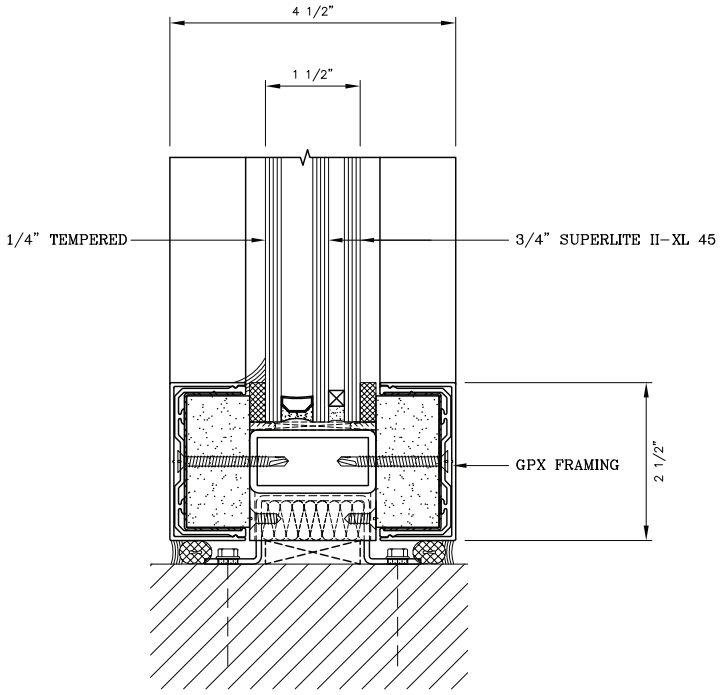
U-Factor: 0.409
SHGC: 0.495
VT: 0.590

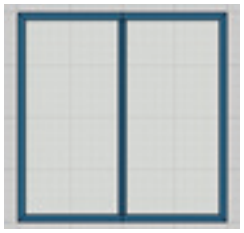


Punched Opening - 47.24 in. x 59.06 in.

U-Factor: 0.409
SHGC: 0.480
VT: 0.570

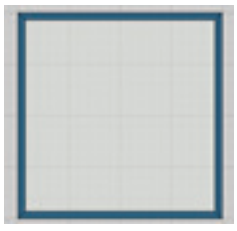
¼" Clear Tempered + ½" Argon + SuperLite II-XL 45 in GPX Framing





Curtain Wall with Vertical Mullions - 78.74 in. x 78.74 in.

U-Factor: 0.411
SHGC: 0.543
VT: 0.636



Punched Opening - 47.24 in. x 59.06 in.

U-Factor: 0.411
SHGC: 0.526
VT: 0.614

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NFRC CMAST U-Factor, SHGC and VT Simulated Values

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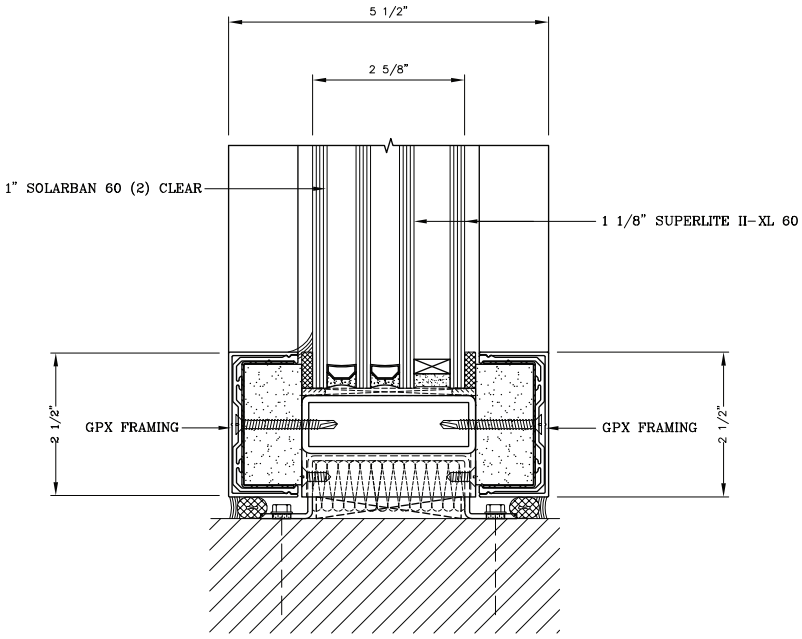
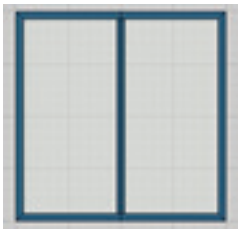
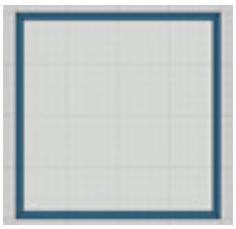
1" Solarban 60 (2) Clear + ½" Argon + SuperLite II-XL 60 in GPX Framing





Curtain Wall with Vertical Mullions - 78.74 in. x 78.74 in.

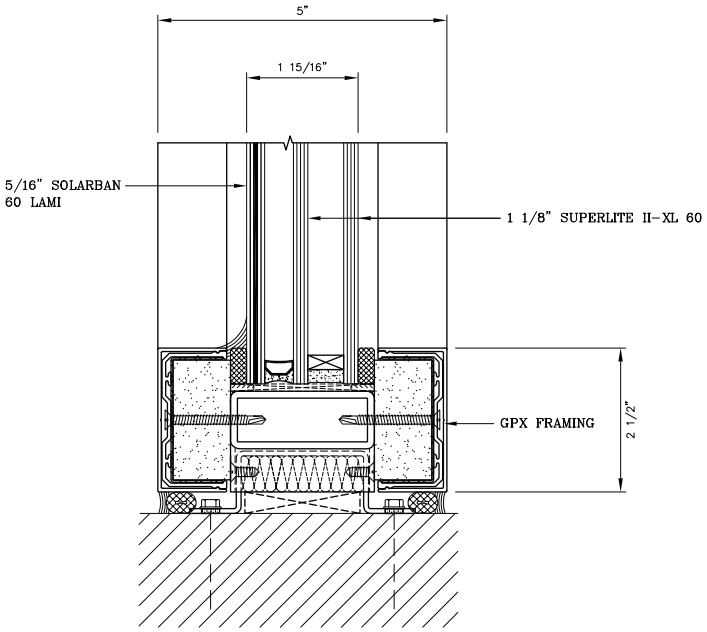
U-Factor: 0.245
SHGC: 0.293
VT: 0.504

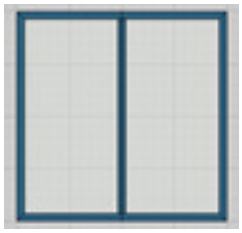


Punched Opening - 47.24 in. x 59.06 in.

U-Factor: 0.251
SHGC: 0.285
VT: 0.487

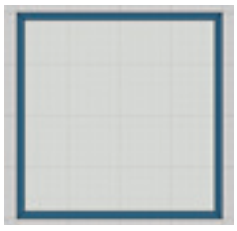
5/16" Solarban 60 Lami + ½" Argon + SuperLite II-XL 60 in GPX Framing





Curtain Wall with Vertical Mullions - 78.74 in. x 78.74 in.

U-Factor: 0.383
SHGC: 0.297
VT: 0.530



Punched Opening - 47.24 in. x 59.06 in.

U-Factor: 0.384
SHGC: 0.289
VT: 0.512

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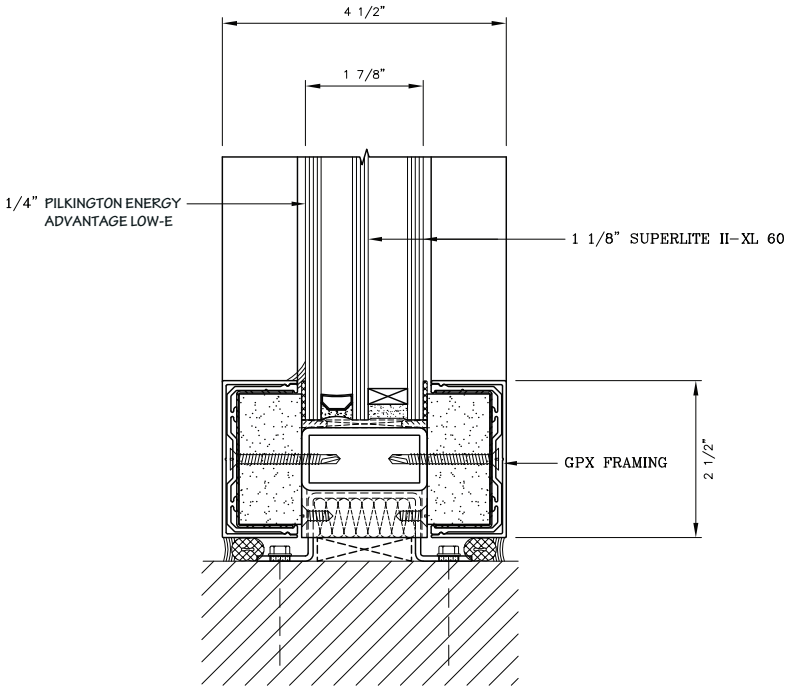
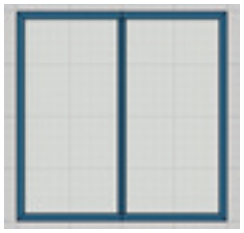
NFRC CMAST U-Factor, SHGC and VT Simulated Values

All sizes are based on NFRC standard test sizes in CMAST

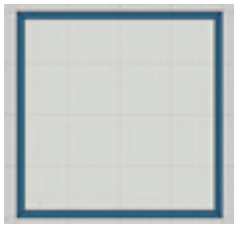
¼" Pilkington Energy Advantage Low-E + ½" Argon + SuperLite II-XL 60 in GPX Framing





Curtain Wall with Vertical Mullions - 78.74 in. x 78.74 in.

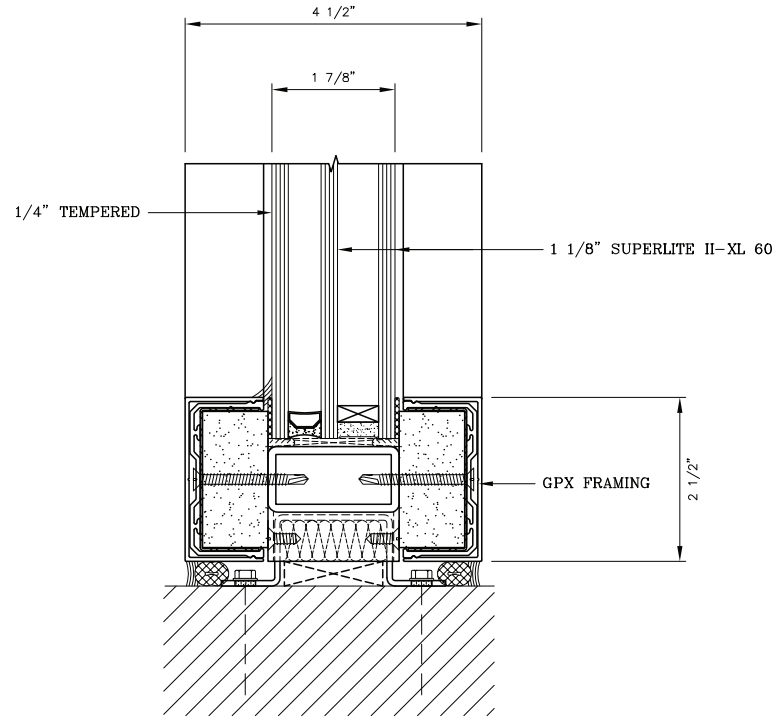
U-Factor: 0.385
SHGC: 0.484
VT: 0.585

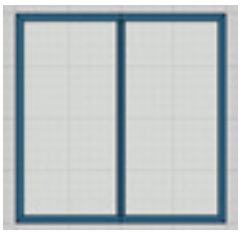


Punched Opening - 47.24 in. x 59.06 in.

U-Factor: 0.387
SHGC: 0.469
VT: 0.565

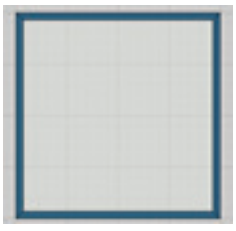
¼" Clear Tempered + ½" Argon + SuperLite II-XL 60 in GPX Framing





Curtain Wall with Vertical Mullions - 78.74 in. x 78.74 in.

U-Factor: 0.387
SHGC: 0.531
VT: 0.631



Punched Opening - 47.24 in. x 59.06 in.

U-Factor: 0.389
SHGC: 0.515
VT: 0.609

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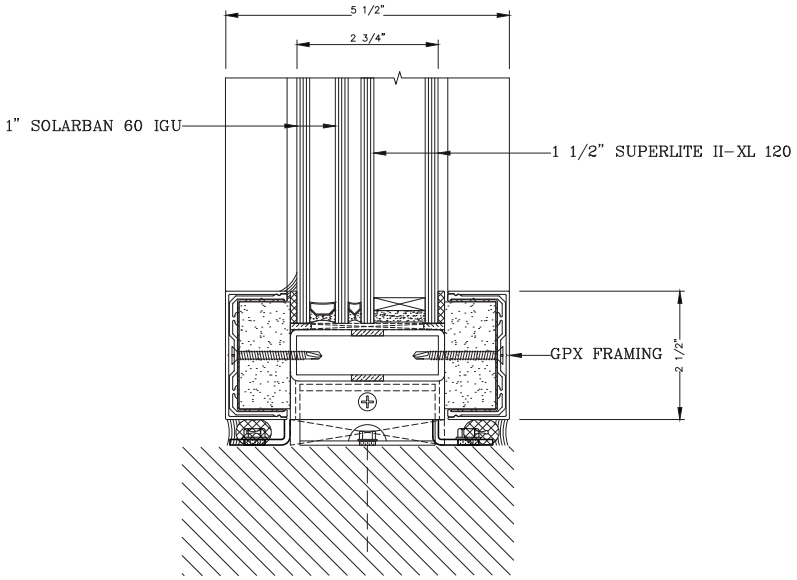
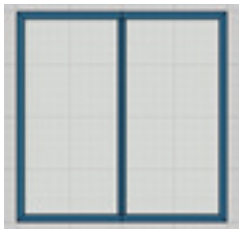
NFRC CMAST U-Factor, SHGC and VT Simulated Values

All sizes are based on NFRC standard test sizes in CMAST

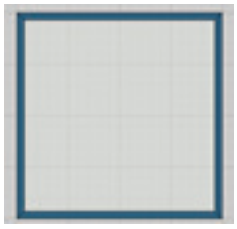
1" Solarban 60 (2) Clear + ½" Argon + SuperLite II-XL 120 in GPX Framing





Curtain Wall with Vertical Mullions - 78.74 in. x 78.74 in.

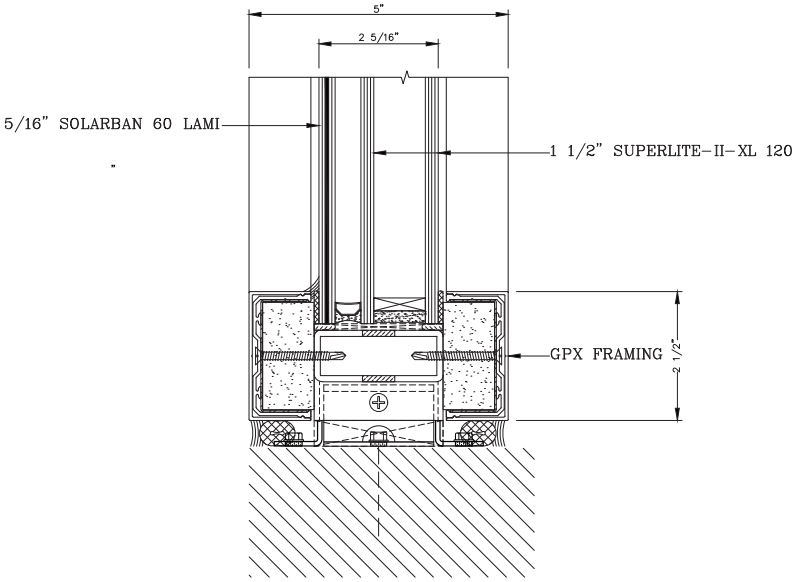
U-Factor: 0.262
SHGC: 0.293
VT: 0.502

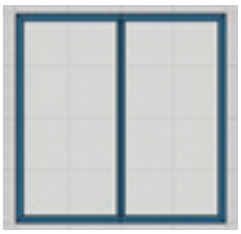


Punched Opening - 47.24 in. x 59.06 in.

U-Factor: 0.267
SHGC: 0.284
VT: 0.485

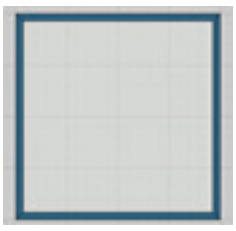
5/16" Solarban 60 Lami + ½" Argon + SuperLite II-XL 120 in GPX Framing





Curtain Wall with Vertical Mullions - 78.74 in. x 78.74 in.

U-Factor: 0.365
SHGC: 0.293
VT: 0.528



Punched Opening - 47.24 in. x 59.06 in.

U-Factor: 0.368
SHGC: 0.284
VT: 0.510

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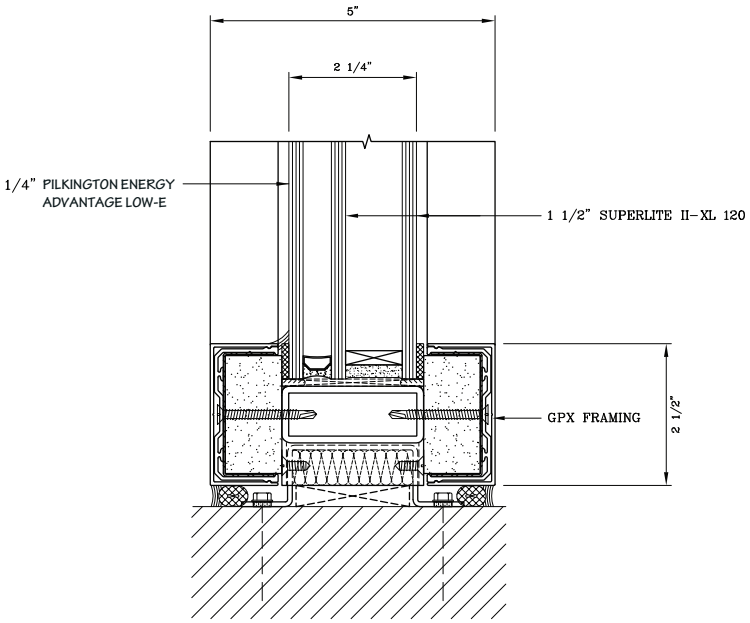
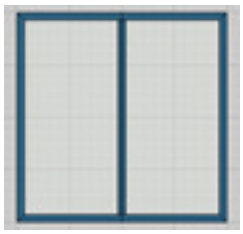
NFRC CMAST U-Factor, SHGC and VT Simulated Values

All sizes are based on NFRC standard test sizes in CMAST

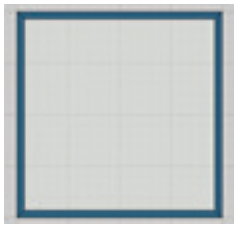
¼" Pilkington Energy Advantage Low-E + ½" Argon + SuperLite II-XL 120 in GPX Framing





Curtain Wall with Vertical Mullions - 78.74 in. x 78.74 in.

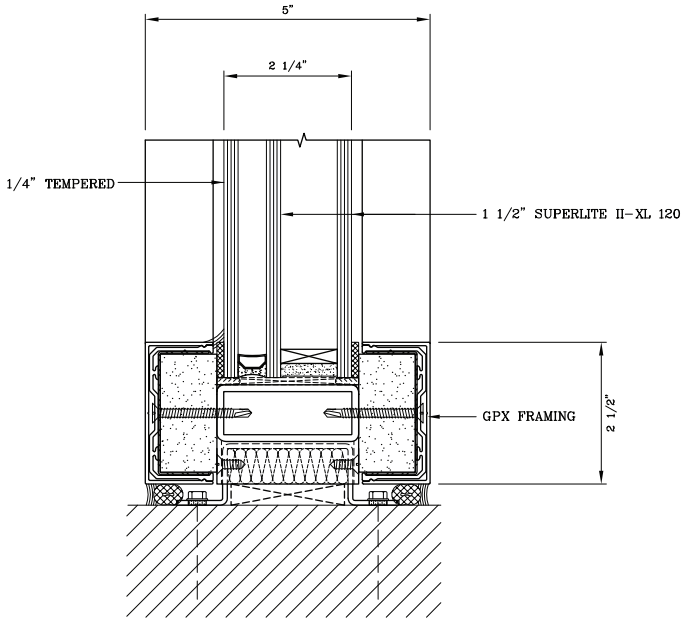
U-Factor: 0.369
SHGC: 0.475
VT: 0.583

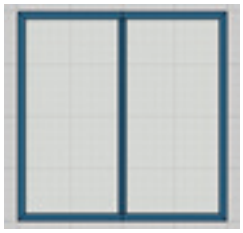


Punched Opening - 47.24 in. x 59.06 in.

U-Factor: 0.370
SHGC: 0.460
VT: 0.563

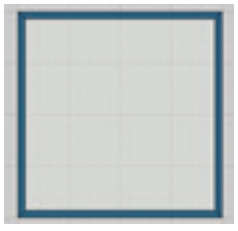
¼" Clear Tempered + ½" Argon + SuperLite II-XL 120 in GPX Framing





Curtain Wall with Vertical Mullions - 78.74 in. x 78.74 in.

U-Factor: 0.369
SHGC: 0.521
VT: 0.628



Punched Opening - 47.24 in. x 59.06 in.

U-Factor: 0.372
SHGC: 0.506
VT: 0.606

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