



KEYSTONE CERTIFICATIONS, INC.
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Notice of Product Certification Authorization

National Fenestration Rating Council

Issued To:

Manufacturer: Custom Vinyl Products LLC
 Address: 260 Enterprise Drive
 New Port News VA 23603
 Man'f Code CST
 Cert Date: 6/14/2012

Certification Number

8429

Product Line Number

CST - K - 009

Revision Date

8/31/2015

The Following NFRC Product Line Has Been Authorized For Certification:

Model / Series: DH55/ DH57 Double Hung
 Operator Type: VSDH
 Frame Type: VY
 Sash Type: VI
 Exp. Date: 8/27/2017

Ratings Authorized For Certification:

| Rating | Property | Authorized |
|----------|-----------------------------|-------------------------------------|
| NFRC 100 | U-factor | <input checked="" type="checkbox"/> |
| NFRC 200 | Solar Heat Gain Coefficient | <input checked="" type="checkbox"/> |
| NFRC 200 | Visible Light | <input checked="" type="checkbox"/> |
| NFRC 400 | Air Leakage | <input checked="" type="checkbox"/> |
| NFRC 500 | Condensation Resistance | <input checked="" type="checkbox"/> |

Fenestration products are not NFRC Certified unless manufactured and labeled in accordance with the current version of NFRC-700, Product Certification Program requirements.

***This is a cover sheet for an NFRC Certification Authorization Report (CAR)
 the corresponding CAR may be downloaded for printing at www.nfrc.org.***

The Manufacturer is authorized to label the options listed in the corresponding CAR

Please notify Keystone of any errors or omissions within 10 days of receipt.

Due diligence was used in authorizing these products for certification. By accepting this report the licensee agrees to hold harmless and indemnify Keystone Certifications, Inc. from all claims or liabilities which may arise based on this certification authorization. Certification authorization is based on NFRC program requirements and simulation and test reports from accredited laboratories.

NFRC Product Certification Authorization Report



Manufacturer: Custom Vinyl Products, LLC
Street: 260 Enterprise Drive
City/State/Zip: Newport News, VA 23603
Print Date: 08/31/2015

Product Series: DH55/DH57 Double Hung
Product Type: VSDH
Air Leakage: ≤ 0.3

Simulation Lab: SATI
Sim. Report #: C9495.08-116-45
Sim. Report Date: 06/30/2015
Test Date: 08/27/2013

Initial Cert. Date: 06/14/2012
Re-Certification Date: 08/31/2015
Revised Date: 06/30/2015
Expiration Date: 08/27/2017

CPD Number: CST-K-9

IA: Keystone Certifications, Inc.

| Status | Product Num. | Manufacturer Code | Frame/Sash | Glaz Lysr | Low-E (Surface) | Gap Width(s) | Spacer | Gap Fill | Grids | Dividers | Tint | U-Factor | SHGC | VT | Cond. Res. |
|--------|--------------|--|------------|-----------|-------------------|--------------|--------|-------------------------|-------|----------|------|----------|------|------|------------|
| | 00037-00001 | DH55: E270 / ARG90 / CLR (2MM/2MM) - 3/4" IG | VY/VI | 2 | 0.037(2) | 0.563 | SS-D | Fill 1: ARG/AIR (90/10) | N | | CL | 0.30 | 0.29 | 0.55 | 56 |
| | 00037-00002 | DH55: E270 / ARG90 / CLR (2MM/2MM) - 3/4" IG | VY/VI | 2 | 0.037(2) | 0.563 | SS-D | Fill 1: ARG/AIR (90/10) | G | 0.75 | CL | 0.30 | 0.26 | 0.49 | 56 |
| | 00037-00003 | DH55: E270 / ARG90 / CLR (2MM/2MM) - 3/4" IG | VY/VI | 2 | 0.037(2) | 0.563 | SS-D | Fill 1: ARG/AIR (90/10) | S | 0.75 | CL | 0.30 | 0.26 | 0.49 | 56 |
| | 00038-00001 | DH55: E366 / ARG90 / CLR (2MM/2MM) - 3/4" IG | VY/VI | 2 | 0.022(2) | 0.563 | SS-D | Fill 1: ARG/AIR (90/10) | N | | CL | 0.30 | 0.22 | 0.51 | 57 |
| | 00038-00002 | DH55: E366 / ARG90 / CLR (2MM/2MM) - 3/4" IG | VY/VI | 2 | 0.022(2) | 0.563 | SS-D | Fill 1: ARG/AIR (90/10) | G | 0.75 | CL | 0.30 | 0.19 | 0.45 | 57 |
| | 00038-00003 | DH55: E366 / ARG90 / CLR (2MM/2MM) - 3/4" IG | VY/VI | 2 | 0.022(2) | 0.563 | SS-D | Fill 1: ARG/AIR (90/10) | S | 0.75 | CL | 0.30 | 0.19 | 0.45 | 57 |
| | 00039-00001 | DH55: E270 / ARG90 / CLR (3MM/3MM) - 3/4" IG | VY/VI | 2 | 0.037(2) | 0.500 | SS-D | Fill 1: ARG/AIR (90/10) | N | | CL | 0.30 | 0.29 | 0.54 | 56 |
| | 00039-00002 | DH55: E270 / ARG90 / CLR (3MM/3MM) - 3/4" IG | VY/VI | 2 | 0.037(2) | 0.500 | SS-D | Fill 1: ARG/AIR (90/10) | G | 0.75 | CL | 0.30 | 0.26 | 0.48 | 56 |
| | 00039-00003 | DH55: E270 / ARG90 / CLR (3MM/3MM) - 3/4" IG | VY/VI | 2 | 0.037(2) | 0.500 | SS-D | Fill 1: ARG/AIR (90/10) | S | 0.75 | CL | 0.30 | 0.26 | 0.48 | 56 |
| | 00040-00001 | DH55: E366 / ARG90 / CLR (3MM/3MM) - 3/4" IG | VY/VI | 2 | 0.022(2) | 0.500 | SS-D | Fill 1: ARG/AIR (90/10) | N | | CL | 0.30 | 0.22 | 0.50 | 57 |
| | 00040-00002 | DH55: E366 / ARG90 / CLR (3MM/3MM) - 3/4" IG | VY/VI | 2 | 0.022(2) | 0.500 | SS-D | Fill 1: ARG/AIR (90/10) | G | 0.75 | CL | 0.30 | 0.20 | 0.45 | 57 |
| | 00040-00003 | DH55: E366 / ARG90 / CLR (3MM/3MM) - 3/4" IG | VY/VI | 2 | 0.022(2) | 0.500 | SS-D | Fill 1: ARG/AIR (90/10) | S | 0.75 | CL | 0.30 | 0.20 | 0.45 | 57 |
| | 00041-00001 | DH55: E366 / ARG90 / i89 (2MM/2MM) - 3/4" IG | VY/VI | 2 | 0.022(2),0.149(4) | 0.563 | SS-D | Fill 1: ARG/AIR (90/10) | N | | CL | 0.27 | 0.21 | 0.49 | 46 |
| | 00041-00002 | DH55: E366 / ARG90 / i89 (2MM/2MM) - 3/4" IG | VY/VI | 2 | 0.022(2),0.149(4) | 0.563 | SS-D | Fill 1: ARG/AIR (90/10) | G | 0.75 | CL | 0.27 | 0.19 | 0.44 | 46 |
| | 00041-00003 | DH55: E366 / ARG90 / i89 (2MM/2MM) - 3/4" IG | VY/VI | 2 | 0.022(2),0.149(4) | 0.563 | SS-D | Fill 1: ARG/AIR (90/10) | S | 0.75 | CL | 0.27 | 0.19 | 0.44 | 46 |
| | 00042-00001 | DH55: E366 / ARG90 / i89 (3MM/3MM) - 3/4" IG | VY/VI | 2 | 0.022(2),0.149(4) | 0.500 | SS-D | Fill 1: ARG/AIR (90/10) | N | | CL | 0.27 | 0.21 | 0.49 | 46 |
| | 00042-00002 | DH55: E366 / ARG90 / i89 (3MM/3MM) - 3/4" IG | VY/VI | 2 | 0.022(2),0.149(4) | 0.500 | SS-D | Fill 1: ARG/AIR (90/10) | G | 0.75 | CL | 0.27 | 0.19 | 0.44 | 46 |

NFRC Product Certification Authorization Report



Manufacturer: Custom Vinyl Products, LLC
Street: 260 Enterprise Drive
City/State/Zip: Newport News, VA 23603
Print Date: 08/31/2015

Product Series: DH55/DH57 Double Hung
Product Type: VSDH
Air Leakage: ≤ 0.3

Simulation Lab: SATI
Sim. Report #: C9495.08-116-45
Sim. Report Date: 06/30/2015
Test Date: 08/27/2013

Initial Cert. Date: 06/14/2012
Re-Certification Date: 08/31/2015
Revised Date: 06/30/2015
Expiration Date: 08/27/2017

CPD Number: CST-K-9

IA: Keystone Certifications, Inc.

| Status | Product Num. | Manufacturer Code | Frame/Sash | Glaz Lyrs | Low-E (Surface) | Gap Width(s) | Spacer | Gap Fill | Grids | Dividers | Tint | U-Factor | SHGC | VT | Cond. Res. |
|--------|--------------|--|------------|-----------|-------------------|--------------|--------|-------------------------|-------|----------|------|----------|------|------|------------|
| | 00042-00003 | DH55: E366 / ARG90 / i89 (3MM/3MM) - 3/4" IG | VY/VI | 2 | 0.022(2),0.149(4) | 0.500 | SS-D | Fill 1: ARG/AIR (90/10) | S | 0.75 | CL | 0.27 | 0.19 | 0.44 | 46 |
| | 00043-00001 | DH57: E270 / ARG90 / CLR (2MM/2MM) - 3/4" IG | VY/VI | 2 | 0.037(2) | 0.563 | SS-D | Fill 1: ARG/AIR (90/10) | N | | CL | 0.30 | 0.29 | 0.54 | 56 |
| | 00043-00002 | DH57: E270 / ARG90 / CLR (2MM/2MM) - 3/4" IG | VY/VI | 2 | 0.037(2) | 0.563 | SS-D | Fill 1: ARG/AIR (90/10) | G | 0.75 | CL | 0.30 | 0.26 | 0.48 | 56 |
| | 00043-00003 | DH57: E270 / ARG90 / CLR (2MM/2MM) - 3/4" IG | VY/VI | 2 | 0.037(2) | 0.563 | SS-D | Fill 1: ARG/AIR (90/10) | S | 0.75 | CL | 0.30 | 0.26 | 0.48 | 56 |
| | 00044-00001 | DH57: E366 / ARG90 / CLR (2MM/2MM) - 3/4" IG | VY/VI | 2 | 0.022(2) | 0.563 | SS-D | Fill 1: ARG/AIR (90/10) | N | | CL | 0.30 | 0.21 | 0.50 | 57 |
| | 00044-00002 | DH57: E366 / ARG90 / CLR (2MM/2MM) - 3/4" IG | VY/VI | 2 | 0.022(2) | 0.563 | SS-D | Fill 1: ARG/AIR (90/10) | G | 0.75 | CL | 0.30 | 0.19 | 0.45 | 57 |
| | 00044-00003 | DH57: E366 / ARG90 / CLR (2MM/2MM) - 3/4" IG | VY/VI | 2 | 0.022(2) | 0.563 | SS-D | Fill 1: ARG/AIR (90/10) | S | 0.75 | CL | 0.30 | 0.19 | 0.45 | 57 |
| | 00045-00001 | DH57: E270 / ARG90 / CLR (3MM/3MM) - 3/4" IG | VY/VI | 2 | 0.037(2) | 0.500 | SS-D | Fill 1: ARG/AIR (90/10) | N | | CL | 0.30 | 0.29 | 0.54 | 56 |
| | 00045-00002 | DH57: E270 / ARG90 / CLR (3MM/3MM) - 3/4" IG | VY/VI | 2 | 0.037(2) | 0.500 | SS-D | Fill 1: ARG/AIR (90/10) | G | 0.75 | CL | 0.30 | 0.26 | 0.48 | 56 |
| | 00045-00003 | DH57: E270 / ARG90 / CLR (3MM/3MM) - 3/4" IG | VY/VI | 2 | 0.037(2) | 0.500 | SS-D | Fill 1: ARG/AIR (90/10) | S | 0.75 | CL | 0.30 | 0.26 | 0.48 | 56 |
| | 00046-00001 | DH57: E366 / ARG90 / CLR (3MM/3MM) - 3/4" IG | VY/VI | 2 | 0.022(2) | 0.500 | SS-D | Fill 1: ARG/AIR (90/10) | N | | CL | 0.30 | 0.21 | 0.49 | 57 |
| | 00046-00002 | DH57: E366 / ARG90 / CLR (3MM/3MM) - 3/4" IG | VY/VI | 2 | 0.022(2) | 0.500 | SS-D | Fill 1: ARG/AIR (90/10) | G | 0.75 | CL | 0.30 | 0.19 | 0.44 | 57 |
| | 00046-00003 | DH57: E366 / ARG90 / CLR (3MM/3MM) - 3/4" IG | VY/VI | 2 | 0.022(2) | 0.500 | SS-D | Fill 1: ARG/AIR (90/10) | S | 0.75 | CL | 0.30 | 0.19 | 0.44 | 57 |
| | 00047-00001 | DH57: E366 / ARG90 / i89 (2MM/2MM) - 3/4" IG | VY/VI | 2 | 0.022(2),0.149(4) | 0.563 | SS-D | Fill 1: ARG/AIR (90/10) | N | | CL | 0.27 | 0.21 | 0.49 | 46 |
| | 00047-00002 | DH57: E366 / ARG90 / i89 (2MM/2MM) - 3/4" IG | VY/VI | 2 | 0.022(2),0.149(4) | 0.563 | SS-D | Fill 1: ARG/AIR (90/10) | G | 0.75 | CL | 0.27 | 0.19 | 0.43 | 46 |
| | 00047-00003 | DH57: E366 / ARG90 / i89 (2MM/2MM) - 3/4" IG | VY/VI | 2 | 0.022(2),0.149(4) | 0.563 | SS-D | Fill 1: ARG/AIR (90/10) | S | 0.75 | CL | 0.27 | 0.19 | 0.43 | 46 |
| | 00048-00001 | DH57: E366 / ARG90 / i89 (3MM/3MM) - 3/4" IG | VY/VI | 2 | 0.022(2),0.149(4) | 0.500 | SS-D | Fill 1: ARG/AIR (90/10) | N | | CL | 0.27 | 0.21 | 0.48 | 46 |

NFRC Product Certification Authorization Report



Manufacturer: Custom Vinyl Products, LLC **Product Series:** DH55/DH57 Double Hung **Simulation Lab:** SATI **Initial Cert. Date:** 06/14/2012
Street: 260 Enterprise Drive **Product Type:** VSDH **Sim. Report #:** C9495.08-116-45 **Re-Certification Date:** 08/31/2015
City/State/Zip: Newport News, VA 23603 **Air Leakage:** ≤ 0.3 **Sim. Report Date:** 06/30/2015 **Revised Date:** 06/30/2015
Print Date: 08/31/2015 **Test Date:** 08/27/2013 **Expiration Date:** 08/27/2017

| CPD Number: CST-K-9 | | | IA: Keystone Certifications, Inc. | | | | | | | | | | | | |
|---------------------|--------------|--|-----------------------------------|-----------|-------------------|--------------|--------|-------------------------|-------|----------|------|----------|------|------|------------|
| Status | Product Num. | Manufacturer Code | Frame/Sash | Glaz Lyrs | Low-E (Surface) | Gap Width(s) | Spacer | Gap Fill | Grids | Dividers | Tint | U-Factor | SHGC | VT | Cond. Res. |
| | 00048-00002 | DH57: E366 / ARG90 / i89 (3MM/3MM) - 3/4" IG | VY/VI | 2 | 0.022(2),0.149(4) | 0.500 | SS-D | Fill 1: ARG/AIR (90/10) | G | 0.75 | CL | 0.27 | 0.19 | 0.43 | 46 |
| | 00048-00003 | DH57: E366 / ARG90 / i89 (3MM/3MM) - 3/4" IG | VY/VI | 2 | 0.022(2),0.149(4) | 0.500 | SS-D | Fill 1: ARG/AIR (90/10) | S | 0.75 | CL | 0.27 | 0.19 | 0.43 | 46 |

Baseline Information

| Test Lab | Test Date | Test Size | Tested U-Value | Standard U-Value | Test Report Number |
|-----------------|-------------------|------------------|-----------------------|-------------------------|---------------------------|
| TATI | 08/27/2013 | 1200mm x 1499mm | 0.312 | 0.305 | C9496.08-116-46 |

Comments: 90% Argon, Single probe.

I hereby certify that all requirements for NFRC Certification Authorization have been met and that the above information is true and correct, to the best of my knowledge.

Authorized IA
Signature: _____