



**Phius Product Number:** W-101752  
**Date Last Certified:** 11/05/2023  
**THERM Files Available:** No

**Phius Certification Path:** Blue Path  
**Valid Through:** 11/05/2025  
**Air Leakage Test Data Available:** No



## PRODUCT INFORMATION

**Product Name:** Kommerling USA 88mm Fixed Window

**Manufacturer:** Kommerling USA

**Primary Frame Material:** Vinyl

**Series:** 88mm

**Fixed or Operable:** Fixed

**Model:** 88mm Fixed Window

**Operation Type:** Fixed

**NFRC CPD #:** KOM-K-8-00133-00001

## IGU DETAILS

**Glazing Name:** LoE 366 on 5 mm Clear/12.7 mm 90% Argon/LoE 366 on 5 mm Clear/12.7 mm 90% Argon/x89 on Clear 5mm

**Glass Layers:** Triple

**Gas Fill:** Argon

**Spacer:** Kommerling Aluminum Spacer

## RECOMMENDED CLIMATE ZONES (NOTE: This information is not for use in building energy models. See next section.)

**Recommended Climate Zones and Whole-Window U-values by Zone, at Standard Model Size [Btu/hr·ft<sup>2</sup>·°F]**

| Climate Zone      | 0, 1, 2 | 3A   | 3B   | 3C   | 4A, 4B | 4C, 5C | 5A, 5B | 6    | 7    | 8    |
|-------------------|---------|------|------|------|--------|--------|--------|------|------|------|
| Recommended Zones | ✓       | ✓    | ✓    | ✓    | ✓      | ✓      | ✓      |      |      |      |
| U-Whole-Window    | 0.14    | 0.15 | 0.15 | 0.15 | 0.15   | 0.15   | 0.15   | 0.15 | 0.15 | 0.15 |

**Modeled Size [W×H]**

47.24" × 59.06"

**SHGC, Whole Window:** 0.16

**Condensation Resistance:**

## COMPONENT-LEVEL PERFORMANCE DATA [IP Units] | *Compatible with building energy modeling tools*

### U-COG | Center of Glass U-Values, by Climate Zone [Btu/hr·ft<sup>2</sup>·°F]

| Climate Zone | 0, 1, 2 | 3A   | 3B   | 3C   | 4A, 4B | 4C, 5C | 5A, 5B | 6    | 7    | 8    |
|--------------|---------|------|------|------|--------|--------|--------|------|------|------|
| U-COG Value  | 0.09    | 0.10 | 0.10 | 0.10 | 0.10   | 0.10   | 0.10   | 0.10 | 0.10 | 0.10 |

### SHGC-COG | Center of Glass Solar Heat Gain Coefficient, All Climate Zones

0.20

### Frame Parameters

|                                                  | Left Jamb   | Right Jamb   | Head       | Sill          |
|--------------------------------------------------|-------------|--------------|------------|---------------|
| <b>Frame Section</b>                             | <b>Left</b> | <b>Right</b> | <b>Top</b> | <b>Bottom</b> |
| <b>Frame Width</b>                               | 3.15"       | 3.15"        | 3.15"      | 3.15"         |
| <b>Frame U-Value [Btu/hr·ft<sup>2</sup>·°F]</b>  | 0.27        | 0.27         | 0.27       | 0.27          |
| <b>Glazing-to-Frame Psi Value [Btu/hr·ft·°F]</b> | 0.0106      | 0.0106       | 0.0104     | 0.0104        |

**Frame-to-Wall Psi Value** is dependent on the on-site installation condition. (See *Phius Guidebook* for more details.)



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**Glass Layers:** Triple

**Gas Fill:** Argon

**Spacer:** Kommerling Aluminum Spacer

## RECOMMENDED CLIMATE ZONES (NOTE: This information is not for use in building energy models. See next section.)

**Recommended Climate Zones and Whole-Window U-values by Zone, at Standard Model Size [W/m<sup>2</sup>K]**

| Climate Zone      | 0, 1, 2 | 3A   | 3B   | 3C   | 4A, 4B | 4C, 5C | 5A, 5B | 6    | 7    | 8    |
|-------------------|---------|------|------|------|--------|--------|--------|------|------|------|
| Recommended Zones | ✓       | ✓    | ✓    | ✓    | ✓      | ✓      | ✓      |      |      |      |
| U-Whole-Window    | 0.79    | 0.83 | 0.83 | 0.83 | 0.83   | 0.83   | 0.83   | 0.83 | 0.84 | 0.85 |

**Modeled Size [W × H]** 1.20 m × 1.50 m

**SHGC, Whole Window:** 0.16

**Condensation Resistance:**

## COMPONENT-LEVEL PERFORMANCE DATA [SI Units] | *Compatible with building energy modeling tools*

### U-COG | Center of Glass U-Values, by Climate Zone [W/m<sup>2</sup>K]

| Climate Zone | 0, 1, 2 | 3A   | 3B   | 3C   | 4A, 4B | 4C, 5C | 5A, 5B | 6    | 7    | 8    |
|--------------|---------|------|------|------|--------|--------|--------|------|------|------|
| U-COG Value  | 0.52    | 0.57 | 0.57 | 0.56 | 0.57   | 0.57   | 0.57   | 0.57 | 0.58 | 0.59 |

### SHGC-COG | Center of Glass Solar Heat Gain Coefficient, All Climate Zones

0.20

| Frame Parameters                                                                                                    | Left Jamb | Right Jamb | Head  | Sill   |
|---------------------------------------------------------------------------------------------------------------------|-----------|------------|-------|--------|
| Frame Section                                                                                                       | Left      | Right      | Top   | Bottom |
| Frame Width                                                                                                         | 80 mm     | 80 mm      | 80 mm | 80 mm  |
| Frame U-Value [W/m <sup>2</sup> K]                                                                                  | 1.53      | 1.53       | 1.51  | 1.51   |
| Glazing-to-Frame Psi Value [W/mK]                                                                                   | 0.0184    | 0.0184     | 0.018 | 0.018  |
| Frame-to-Wall Psi Value is dependent on the on-site installation condition. (See Phius Guidebook for more details.) |           |            |       |        |