



# VIRACON VNE (Viracon Neutral Low-E) Insulating Glass

Just when you thought high performance glass coatings couldn't get any better, Viracon offers a fresh, new alternative.

- 15%–34% improvement in solar performance compared to traditional Low-E coatings
- Ultra-subtle neutral reflected color
- Low interior and exterior reflectance — High visible light transmittance
- Contributes to sustainable building design in both appearance and performance

Viracon's VNE high-performance glass is the latest revolution in solar control glass coatings to offer you an innovative alternative for your glass selection.

## How?

By creating a blend of the low reflectivity of traditional Low-E coatings with the improved solar control characteristics of hybrid Low-E coatings. The result gives a totally new glazing option with low solar heat gain, low reflectance and an ultra-subtle neutral reflected color architects have been asking for.

**The real beauty of Viracon's VNE is that it provides an appealing visual balance without dominating the building façade.**

Seeing is believing — compare new Viracon's VNE to conventional coatings.

**Traditional Low-E** coatings offer high visible light transmittance with a darker, flat appearance.

**Hybrid Low-E** coatings present a vivid crisp appearance and higher levels of reflectance.

**New Viracon's VNE Insulating Glass** is the perfect blend of the low reflectivity of Low-E coatings and the improved solar control of Hybrid Low-E.

| PRODUCT              | VISIBLE LIGHT TRANSMITTANCE | REFLECTANCE OUT | REFLECTANCE IN | WINTER U-VALUE | SUMMER U-VALUE | SHADING COEFFICIENT | SOLAR HEAT-GAIN COEFFICIENT (SHGC) | LSG         |
|----------------------|-----------------------------|-----------------|----------------|----------------|----------------|---------------------|------------------------------------|-------------|
| Traditional Low-E    | 70%                         | 11%             | 12%            | .29            | .26            | .44                 | .38                                | 1.84        |
| <b>Viracon VNE63</b> | <b>62%</b>                  | <b>10%</b>      | <b>10%</b>     | <b>.29</b>     | <b>.26</b>     | <b>.33</b>          | <b>.29</b>                         | <b>2.14</b> |
| <b>Viracon VNE37</b> | <b>38%</b>                  | <b>13%</b>      | <b>11%</b>     | <b>.30</b>     | <b>.27</b>     | <b>.29</b>          | <b>.25</b>                         | <b>1.52</b> |
| Hybrid Low-E         | 36%                         | 44%             | 21%            | .30            | .26            | .27                 | .23                                | 1.56        |

\*Coatings on the second (#2) surface of clear glass in an insulating unit. An example of a hybrid Low-E is Viracon's VRE platform.



Viracon's VNE is available on the second (#2) surface of an insulating unit on your choice of glass color substrates. The revolutionary coating on the second (#2) surface is edge deleted. You also have the design option of choosing from two standard silicone sealant colors: black or light gray. Our light sealant provides less contrast between the glass edge and the viewing area.

### Viracon's VNE (Neutral Low-E) Insulating Glass

| PRODUCT                        | TRANSMITTANCE |       |     | REFLECTANCE |        |       | U-VALUE |        | SHADING COEFFICIENT | RELATIVE HEAT GAIN |     | EUROPEAN U-VALUE |     |
|--------------------------------|---------------|-------|-----|-------------|--------|-------|---------|--------|---------------------|--------------------|-----|------------------|-----|
|                                | VISIBLE       | SOLAR | U-V | VIS-OUT     | VIS-IN | SOLAR | WINTER  | SUMMER |                     | SHGC               | LSG |                  |     |
| VNE37 on Clear                 | 38%           | 19%   | 12% | 13%         | 11%    | 26%   | .30     | .27    | .29                 | 62                 | .25 | 1.52             | 1.6 |
| VNE63 on Clear                 | 62%           | 24%   | 5%  | 10%         | 10%    | 37%   | .29     | .26    | .33                 | 70                 | .29 | 2.14             | 1.5 |
| VNE37 on Green                 | 33%           | 14%   | 6%  | 12%         | 10%    | 11%   | .30     | .27    | .24                 | 53                 | .21 | 1.57             | 1.6 |
| VNE63 on Green                 | 53%           | 20%   | 3%  | 10%         | 11%    | 12%   | .29     | .26    | .30                 | 64                 | .26 | 2.04             | 1.5 |
| VNE37 on Gray                  | 19%           | 10%   | 4%  | 7%          | 10%    | 12%   | .30     | .27    | .21                 | 45                 | .18 | 1.06             | 1.6 |
| VNE63 on Gray                  | 30%           | 12%   | 2%  | 7%          | 10%    | 16%   | .29     | .26    | .22                 | 47                 | .19 | 1.58             | 1.5 |
| VNE37 on Bronze                | 23%           | 12%   | 4%  | 8%          | 10%    | 14%   | .30     | .27    | .22                 | 48                 | .19 | 1.21             | 1.6 |
| VNE63 on Bronze                | 37%           | 15%   | 2%  | 8%          | 11%    | 20%   | .29     | .26    | .24                 | 52                 | .21 | 1.76             | 1.5 |
| VNE37 on Blue                  | 25%           | 12%   | 6%  | 8%          | 10%    | 12%   | .30     | .27    | .23                 | 50                 | .20 | 1.25             | 1.6 |
| VNE63 on Blue                  | 39%           | 16%   | 3%  | 8%          | 10%    | 16%   | .29     | .26    | .26                 | 55                 | .22 | 1.77             | 1.5 |
| VNE37 on Blue-Green            | 34%           | 14%   | 7%  | 12%         | 11%    | 11%   | .30     | .27    | .25                 | 54                 | .22 | 1.55             | 1.6 |
| VNE63 on Blue-Green            | 53%           | 20%   | 3%  | 10%         | 11%    | 13%   | .29     | .26    | .30                 | 64                 | .26 | 2.04             | 1.5 |
| VNE37 on Guardian UltraWhite™  | 41%           | 22%   | 13% | 15%         | 11%    | 31%   | .30     | .27    | .31                 | 65                 | .26 | 1.58             | 1.6 |
| VNE63 on Guardian UltraWhite™  | 65%           | 27%   | 5%  | 11%         | 11%    | 46%   | .29     | .26    | .34                 | 71                 | .29 | 2.24             | 1.5 |
| VNE37 on Guardian CrystalGray™ | 27%           | 13%   | 7%  | 9%          | 11%    | 14%   | .30     | .27    | .24                 | 51                 | .20 | 1.35             | 1.6 |
| VNE63 on Guardian CrystalGray™ | 45%           | 17%   | 3%  | 8%          | 10%    | 18%   | .29     | .26    | .27                 | 58                 | .23 | 1.96             | 1.5 |

Performance data provided based on LBNL WINDOW 5.2 software.

The values shown are nominal. They may vary due to manufacturing tolerances.

1. The performance data above applies to insulating glass with two plies (clear inboard) of 1/4" (6 mm) glass and a 1/2" (13 mm) air space. The VNE coatings are applied to the second (#2) surface. If UltraWhite (15) glass is used, both plies of the unit are the UltraWhite substrate.
2. If Viracon's VNE coatings are applied to tinted glass, the glass must be heat treated.
3. If Viracon's VNE coatings are applied to clear glass, contact our Viracon Technical Services Department to determine the possibility of using annealed glass.

VNE63 is available to a maximum size of 72" x 144" (1829 mm x 3658 mm). VNE37 is available to a maximum size of 84" x 144" (2134 mm x 3658 mm).

Note: These maximum sizes illustrate production limits. These sizes are unavailable as finished products. Maximum size for annealed glass under any condition is 50 sq ft (4.65 sq m). Maximum size for heat-treated glass under any condition is 65 sq ft (6.04 sq m).