



VIRACON®

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## Offset Insulating Units

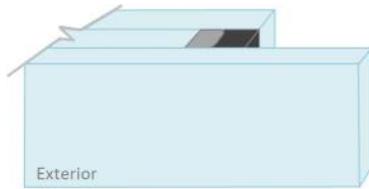
Offset insulating units, also referred to as step-glazed units, have the edge of one lite extend beyond the edge of the other lite on one or more sides of the insulating unit. Offset insulating units may be specified for functional or aesthetic reasons in applications such as corner conditions or operable windows.

Prior to quoting an offset insulating unit, you will need the following:

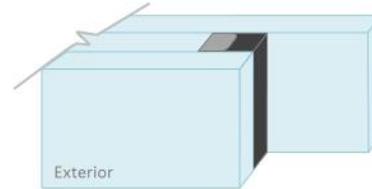
- How many sides are offset?
- Is the interior or exterior ply of glass smaller?
- What is the offset distance?
- What type of fill is the customer looking for?

### Types of Offset Insulating Units

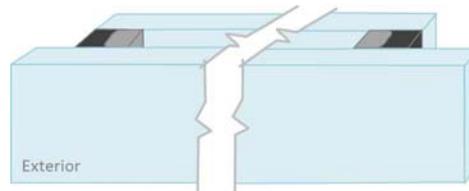
Offset units are defined by the number of edges where one lite extends beyond the edge of another. The lite of glass extending beyond the other could be the interior or exterior ply of the insulating unit. We manufacture insulating units with 1, 2, 3 or 4 sided offsets. Shown here are a few examples:



*1-sided exterior offset (interior ply smaller)*

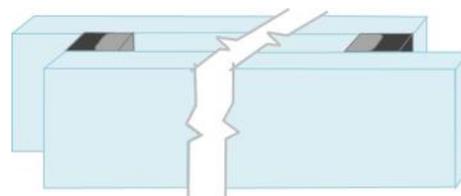


*1-sided interior offset (exterior ply smaller)*



*2-sided offset*

An additional type of offset insulating unit we can manufacture is a staggered insulating unit where the glass lites are the same size however assembled so they are offset from one another.



*Staggered Insulating Unit*

## Guidelines

- Offset distance
  - Our standard offset is  $\leq 3/4$ " (19 mm).
  - Offsets exceeding  $3/4$ ", up to 3", require a special work request (SWR) and there will be no warranty on the unit. Offsets greater than 3" are not available.
- All plies must be heat treated.
- Edge deletion will be continuous from the offset glass edge to the spacer with 95% of the coating removed.
- Triple insulating units are only available as one-sided exterior offset units.
- Due to shear load on secondary sealant from the outboard glass ply dead load Technical Services must calculate the sightline for all 2, 3 and 4-sided offsets.
- All 2, 3, 4-sided offsets, staggered insulating units, 1-sided offsets with the bottom offset, shapes and triple insulating units require an SWR.



## Fill Options

**Normal Fill:** A robot fills the unit. The silicone edge may vary and have a rounded appearance at the corners.

**Buttered Fill:** A silicone layer is applied to the surface of the offset lite.

**90° Fill:** The offset lite is taped off to achieve a uniform silicone edge. A Special Work Request (SWR) is required for 90° fill offsets.

Viracon does not manufacture a 45-degree fill; use buttered fill as alternate.

