

LUXVIEW

ASTM GUIDELINES SUPPLEMENT

ASTM C 1036-21 Standard Specification for Flat Glass

Summary

1. Stand back 10 feet from the glass.
2. Face the glass product straight ahead (at 90 degrees).
3. View the glass in daylight, but not direct sunlight.
4. Inspect the middle 80% surface area of the glass.

Given the above four parameters, if no blemishes can be seen, there is no defect.

Visual Inspection Criteria

Glass should be inspected at a distance of 10 feet from the observer. Stand at a viewing angle of 90 degrees from the glass with daylight, but without direct sunlight. If artificial light (light box) is used as a light source, the source should be parallel, and at a distance of 10 ft from the glass.

Inspection should not exceed viewing for more than five seconds, for lites up to 6 sq ft, 10 seconds for lites up to 35 sq ft, and 20 seconds for lites above 35 sq ft. This applies to transmission and reflection.

The Following Are Allowable Defects

Single Lites up to 6 square feet

1. Scratches – Viewable as stated above must be 1" or less. No more than one is allowed per lite.
2. Debris, Dirt, Spots – Viewable as stated above, must be 1/16" or less. No more than one is allowed per lite.
3. Seeds, Bubbles, Knots, Stones – Viewable as stated above, must be 1/16" or less. No more than one is allowed per lite.
4. No more than one total viewable defect as described above is allowed per lite.
5. Shells – No more than ¼" from edge less than ½ the thickness of the lite. No more than one per side.
6. Chips – No more than 1/8" from the edge. No more than one per side.
7. Coating – Must be uniform on the lite inspected when viewed in transmission using the inspection criteria previously stated above.
8. The border area is comprised of 2" plus ½" from each edge of the lite. All other area is the central area. lite, and must be separated by a minimum of 24".

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Single Lites 6 to 35 square feet

1. Scratches – Viewable as stated above must be 1" or less. No more than two are allowed per lite, and must be separated by a minimum of 24".
2. Debris, Dirt, Spots – Viewable as stated above, must be 1/16" or less. No more than two are allowed per lite, and must be separated by a minimum of 24".
3. Seeds, Bubbles, Knots, Stones – Viewable as stated above, must be 1/16" or less. No more than two are allowed per lite, and must be separated by a minimum of 24".
4. No more than two total viewable defects as described above are allowed per lite.
5. Shells – No more than 1/4" from edge less than 1/2 the thickness of the lite. No more than one per side.
6. Chips – No more than 1/8" from the edge. No more than one per side.
7. Coating – Must be uniform on the lite inspected when viewed in transmission using the inspection criteria previously stated above.
8. The border area is comprised of 4" plus 1/2" from each edge of the lite. All other area is the middle area.

Single Lites over 35 square feet

1. Scratches – Viewable as stated above, must be 1" or less. No more than three are allowed per lite and must be separated by a minimum of 24".
2. Debris, Dirt, Spots – Viewable as stated above, must be 1/16" or less. No more than three are allowed per lite, and must be separated by a minimum of 24".
3. Seeds, Bubbles, Knots, Stones – Viewable as stated above, must be 1/16" or less. No more than three are allowed per lite, and must be separated by a minimum of 24".
4. No more than three total viewable defects as described above are allowed per lite.
5. Shells – No more than 1/4" from edge less than 1/2 the thickness of the lite. No more than one per side.
6. Chips – No more than 1/8" from the edge. No more than one per side.
7. Coating – Must be uniform on the lite inspected when viewed in transmission using the inspection criteria previously stated above.
8. The border area is comprised of six inches plus 1/2" from each edge of the lite. All other area is the central area.