



GLASS GUIDE: BLEMISHES

INFORMATION FOR HOMEOWNERS



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Since glass is derived primarily from sand, blemishes may appear in the finished product. There are two main types of blemishes: linear and point. This document will guide you through how to determine eligibility for replacement in two steps.

STEP 1: IDENTIFY THE GLASS BREAKAGE TYPE



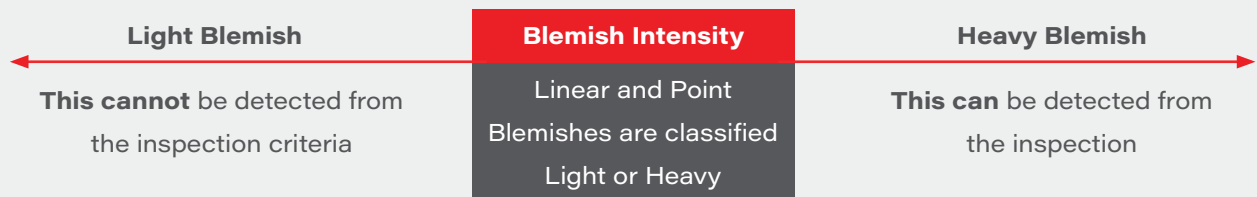
LINEAR BLEMISHES

- **Scratch** - Damage in the form of a line
- **Rub** - Abrasion that produces a frosty appearance.
- **Dig** - Deep, short scratch.



POINT BLEMISH

- **Crush** - Lightly pitted condition with a dull gray appearance
- **Knot** - Lumps
- **Dirt/Mark/Contaminant** - Small particle of foreign material on the surface
- **Gaseous Inclusion** - Round or elongated bubble
- **Pinhole** - Small area in which the coating is entirely or partially absent.
- **Corrosion** - Change in color or level of reflected or transmitted light over all or part of the surface





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STEP 2: INSPECT GLASS PROPERLY

If you suspect that you have a linear or point blemish, please examine your glass with the industry-wide standards featured below. This ensures that every glass pane is measured consistently.

- Inspect glass with the naked eye in the vertical position.
- View it at a 90-degree angle to the glass.
- Make all inspections during the daytime (without direct sunlight)
- Stand at the distance specified by each blemish type below for the time noted.
- Understand what merits replacement based upon the location of the blemish (review the central area and outer area section below)

VIEWING DISTANCES AND TIMES FOR BLEMISHES

Where you stand and how long you review a potential blemish will help you determine if your glass pane is eligible for replacement. Use the charts below to identify the appropriate criteria.

Blemish Type	Viewing Distance (Based on Size of Glass)		Viewing Time (Based on Size of Glass)	
	25 Sq. Feet or Less	Over 25 Sq. Feet	25 Sq. Feet or Less	Over 25 Sq. Feet
Linear	39 inches Away	39 inches Away	10 Seconds	20 Seconds
Point	10 feet Away	10 feet Away	10 Seconds	20 Seconds

How to use this table: If you are examining a potential linear blemish on a glass pane that is 25 square feet or less, you must stand 39 inches away from the pane and view it for 10 seconds. It is rejectable if a scratch is over 2" long in the inner portion of the glass or 3" in the outer portion.



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LOCATIONS OF BLEMISHES (CENTRAL AREA AND OUTER AREA)

Blemishes are eligible for replacement based on their location on the glass pane. Before you examine your glass, it is essential to understand the two viewing areas for each pane/unit: the central and outer areas. The central area is considered the section in the middle of the glass, and the outer area represents the remaining portion along the perimeter of the glass.

Based on the standards to the right, please refer to the charts below to determine eligibility for replacement.

- Up to 6 sq ft - 2" border
- 6 - 35 sq ft - 4" border
- 35 - 50 sq ft - 6" border
- Over 50 sq ft - 8" border

Central
Viewing Area

Outer 20% Viewing Area

Central
Viewing Area

Outer 20% Viewing Area

Linear Blemish

Viewing Area	Blemish Intensity	Replacement Eligibility
Outer	Any	Any occurrence that is 3" or greater is eligible for replacement
Central	Any	Any occurrence that is 3" or greater is eligible for replacement

How to use this table: If a light or linear blemish occurs in the outer area of the pane that is 3" or greater, your glass will be eligible for replacement

Point Blemish

Size of Glass Pane	Blemish Intensity		Replacement Eligibility	
	Outer Area	Central Area	Outer Area	Inner Area
See table above	Any		Any pane with two point blemishes within a 3" area or no more than five in a 12" area larger than 3/32 inch is eligible for replacement	Any pane with two point blemishes within a 3" area or no more than five in a 12" area larger than 1/16 inch is eligible for replacement

How to use this table: If you examine a point blemish in the outer area, it will be eligible for replacement if there are two blemishes within a 3" area larger than 3/32 inch each.