



Technical Report Preprint

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J673a

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 485 Lexington Avenue, New York, New York 10017

AUTOMOTIVE GLAZING—SAE J673a

SAE Recommended Practice

Report of Passenger Car Body Engineering Committee approved July 1950 and last revised by Body Engineering Committee August 1967.

Scope—This SAE Recommended Practice is intended to cover current safety glazing practice and usage of safety glazing materials in motor vehicles. Nominal specifications for thickness, flatness, curvature, size, and fabrication details are included principally for the guidance of body engineers and designers.

Glass Sizes—There are no standard sizes in automotive glass. Maximum sizes must be determined between the automotive engineering department and the glass manufacturer.

The various types of safety glass (flat or curved) are as follows: laminated plate, float, or sheet glass; tempered plate, float, or sheet glass; polished wire glass).

Typical Commercial Tolerance Information

1. **Thickness**—Commercially available flat or curved safety glass ordinarily has a thickness tolerance of plus or minus 0.03 in.

NOTE: Other glass thicknesses may become available, and are acceptable providing they meet the test requirements of USA Standard Z26.1-1966.

| Type of Safety Glass | Nominal Thickness, in. |
|------------------------------|-----------------------------------|
| Laminated plate or float | 0.265, 0.250 |
| Laminated sheet ^a | 0.230 |
| Tempered plate or float | 0.250, 0.235, 0.219, 0.193, 0.125 |
| Tempered sheet | 0.250, 0.219, 0.193, 0.125, 0.090 |
| Polished wire glass | 0.250 |

^a Made using two pieces of sheet glass of approximately equal thickness, or with one piece of single strength and one of double strength

2. **Flatness**—Flat safety glass of the above types may have 0.03 in. max total bow per each lineal foot.

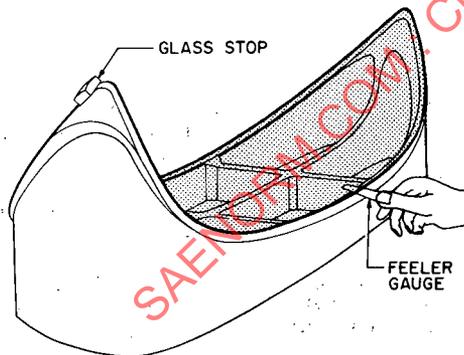


FIG. 1—CONCAVE TYPE CHECKING GAGE

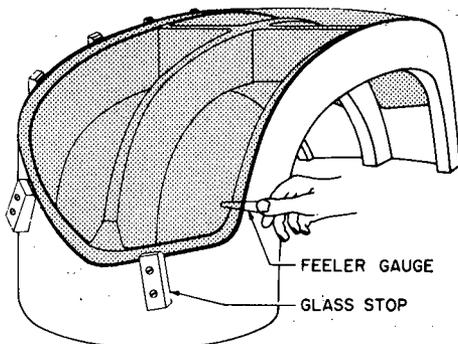


FIG. 2—CONVEX TYPE CHECKING GAGE

NOTES FOR FIGS. 3A-3C
 NOTE 1: L = LAMINATED GLASS; T = TEMPERED GLASS
 NOTE 2: GLASS MANUFACTURER IS NOT REQUIRED TO FURNISH A TRUE RADIUS ON ANY EDGE WHERE A RADIUS IS SPECIFIED

MIN RADIUS 1/2 GLASS THICKNESS, MAX RADIUS APPROX. 0.25 IN.

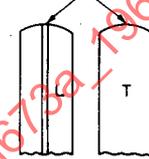


FIG. 3A—EDGE NO. 1, CROWN EDGE, SATIN FINISH FOR ALL EXPOSED EDGES

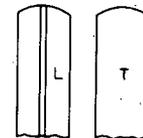


FIG. 3B—EDGE NO. 2, CROWN EDGE, SEMISATIN FINISH FOR UNEXPOSED EDGES SLIDING IN CHANNELS

MAX PERMISSIBLE CENTER AREA UNTOUCHED BY GRINDING WHEEL = 3/4 OF THICKNESS

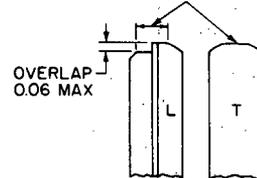


FIG. 3C—EDGE NO. 3, SEMICROWN EDGE, SEMISATIN FINISH FOR EDGES ENCLOSED IN FIXED CHANNELS OR STATIONARY INSTALLATIONS

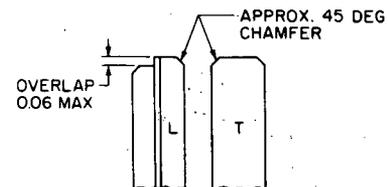


FIG. 3D—EDGE NO. 4, SEAMED EDGE FOR EDGES ENCLOSED IN FIXED CHANNELS OR STATIONARY INSTALLATIONS

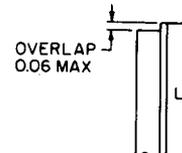


FIG. 3E—EDGE NO. 5, PLAIN EDGE FOR EDGES ENCLOSED IN FIXED CHANNELS