

DSS-P.01.05 | Processing / Manufacturing Features

Edge Kink / Localized Warp

Processing / Manufacturing feature - reference; generally not "damage"

Diagnosis summary

A localized departure from flatness concentrated near an edge or corner of a lite—commonly a small "kink" or short-wavelength warp attributable to manufacturing/handling processes (e.g., heat-treat cooling, conveyor/edge support, post-process handling). It alters straight-line reflections/transmission near the edge zone but does not present as a discrete surface-relief defect at the exposed surface.

Field identification cues

- Surface-catch class (MSRT):
- SC-0 (none). Make one light, non-marring pass; no tactile interruption should be felt because this is shape, not local relief. Do not repeat/abrade.
- Morphology:
- Localized flatness/shape deviation near edge; no chip flanks, pits, or modeled micro-texture. Classification remains observation-based; do not confuse with edge chipping (see M.03).

Classification, severity and scope

- Not field damage. When SC-0 and morphology indicate a shape feature (no local relief), record "Processing Feature - Not Surface Damage (outside CAT-1...CAT-4)".
- If apparent distortion is determined to be inside an IGU cavity or otherwise inaccessible, document fixed parallax and record CAT-5 (out of in-place scope by location/condition).

Distinguishing criteria

- vs. Bow/Warp (P.01.02): Bow/warp is global curvature across the pane; edge kink is localized near the perimeter. Both are SC-0 and non-relief.
- vs. Roller Wave (P.01.01): Roller wave is periodic and often extends across the lite; edge kink is a short, non-periodic local bend. Both are factory shape features.
- vs. Edge micro-chipping / clamshell (M.03): Edge damage shows fracture morphology and, when accessible, may show clear catch; edge kink shows no catch and no fracture cues.

Documentation and inspection

- Photo set (VIS): 12 / 36 / 72 in, normal + oblique; include a straight reference (string line/mullion/edge rule) skimming the affected perimeter to show local bend; note.
- MSRT: Record SC-0 (none); one pass only; non-marring.
- Forms: Pane ID; surface numbering (#1-#4; laminate-internal), product family, coating on worked surface? (Y/N/Unknown), reveal status, lighting notes/time.

Safety / repairability boundary: Complete only the non-invasive reveal and inspection steps authorized by the controlling VIS guidance. Classification does not authorize restoration, establish acceptance, or override stop-work, coating, crack, integrity, access, chemical, fall-protection, or project-specific requirements.

Full DSS publication: use the catalog download. Web specification:

<https://a7df714357.nxcli.io/learning-center/resource-center/damage-specification-standards/dss-p-01-05-edge-kink-localized-warp/>