

DSS-A.01.02 | Assembly / Internal Conditions

Moisture / Condensation Between Panes (#2 / #3)

Assembly / internal condition - typically CAT-5 by location; out of in-place scope

Diagnosis summary

Between-pane condensation is liquid water or condensate films/droplets observed on IGU cavity faces (typically #2 / #3) due to moisture ingress, seal failure, or internal humidity/temperature cycling. Because the cue resides inside the sealed unit, it is not accessible to in-place restoration; classification is governed by location/condition rather than surface-catch.

Field identification cues

- Location / access (primary):
- Confirm the condition is between panes using parallax: the feature's apparent position is fixed relative to its reflection when the observer moves. Log as #2 / #3 per surface numbering.
- Surface-catch class (MSRT):
- Not determinative for between-pane conditions; MSRT on #1/#4 cannot assess a cavity-face cue. CAT-5 is location/condition-driven.

Classification, severity and scope

- CAT-5 - Out of scope for in-place restoration when between-pane (IGU cavity) or otherwise inaccessible. Document and refer per project protocol (e.g., replacement or manufacturer service).
- If the moisture proves to be on #1/#4 (responds to reveal / drying), it is an environmental condition and must be removed/controlled prior to classification; only residual cues on the exposed face (e.g.,).

Distinguishing criteria

- vs. Internal haze/volatile fogging (A.01.01): Haze appears as a dry veil/film and remains even when the cavity is not visibly wet.
- vs. Exterior/interior surface condensation (#1/#4): Disallowed by VIS environment controls; clears with dry/conditioning per §5.3.
- vs.

Documentation and inspection

- Photo set (VIS): 12 / 36 / 72 in; normal + oblique; include raking frames.
- Forms: Record pane ID; product family & surface numbering (#1-#4; laminate-internal if applicable); worked surface Y/N; functional coating present on worked surface?
- Acceptance split: CAT-5 conditions are not subject to in-place acceptance under VIS; document and refer.

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-a-01-02-moisture-condensation-between-panes-2-3/>