

DSS-A.02.05 | Assembly / Internal Conditions

Interlayer Discoloration / Yellowing (UV/thermal aging; laminated interlayer)

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

Diagnosis summary

A gradual color shift (amber/yellow/brown) occurring within the laminated interlayer (PVB/ionoplast, etc.) due to UV exposure, thermal load, or aging, observed between the plies. This is a laminate-internal appearance condition (not on an exposed worked face) and is generally not addressable in place; classification is location/condition-driven.

Field identification cues

- Location / access (primary):
- Confirm the phenomenon is laminate-internal (between plies). On forms, record product family (laminated) and surface numbering (#1-#4; tag as laminate-internal). This is not an exposed worked face.
- Surface-catch class (MSRT):
- On exposed faces, record SC-0 (none). MSRT is single, non-marring and supports classification only; do not abrade. Prefer a polymer stylus on coated faces or rely on visual/location cues.

Classification, severity and scope

- CAT-5 - Out of in-place scope when discoloration resides within the laminate (not on an exposed worked surface). Document and refer per project protocol (fabricator/manufacturer/warranty).

Distinguishing criteria

- vs. External films/residues (R-family): Face films respond to Non-Invasive Reveal; interlayer yellowing does not.
- vs. Edge haze/whitening (A.02.01): Whitening is a milky diffuse edge effect; discoloration is a color cast (amber/brown) without a sharp boundary.
- vs.

Documentation and inspection

- Photo set (VIS): 12 / 36 / 72 in, normal + oblique, raking; include at least one back-lit image (when safe) to show internal color shift.
- Forms: Pane ID; product family & surface numbering (#1-#4; laminate-internal); worked surface Y/N; functional coating present on worked surface?
- Context notes: Orientation (cardinal), presence of frit/spandrel/film behind glass, proximity to heat sources; ambient temperature/RH at time of inspection.

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-02-05-interlayer-discoloration-yellowing-uv-thermal-aging-laminated-interlayer/>