

DSS-M.02.05 | Mechanical Abrasion, Scoring, Impact & Cracking

Squeegee Burn Lines (Friction Film)

Mechanical / Abrasion Fields - Non-linear; often residue-assisted friction mark rather than true relief

Diagnosis summary

Narrow, linear or banded appearance change that follows squeegee travel paths during window cleaning. Typically a friction-film or light burnish produced by dry/dirty rubber, residue-lubricant mismatch, or excessive pressure. Presents primarily as a visibility cue under raking/oblique light; may be non-tactile (film) or show trace relief where the surface has been lightly burnished.

Field identification cues

- Surface-catch class (MSRT):
- SC-0 (film only) to SC-1 (trace burnish); one, light, non-marring pass only to sense relief-do not abrade. Prefer a polymer stylus on suspected coated faces.
- Reveal/lighting/geometry:
- Inspect after Non-Invasive Reveal (clean & dry). View at 12 in, 36 in, 72 in at normal incidence and by 60°-120° oblique sweep under raking light.

Classification, severity and scope

- If post-reveal cue remains visible but non-tactile → trend CAT-1 (faint/non-relief film/transfer).
- If trace relief is detected (SC-1) with clean, fine edges and no chip flanks → CAT-2 (light).
- Presence of chip flanks, pits/craters, or modeled micro-texture elevates to CAT-3/4 per morphology (mechanical abrasion rather than mere film).
- If fixed parallax indicates between-pane look-alike → CAT-5 (out of in-place scope by location).

Distinguishing criteria

- vs. Detergent/surfactant film (R.04.01): films respond to reveal; true burnish persists post-reveal.
- vs. Micro-abrasion swirls / pad trails (M.02.01): swirls are arcuate/cross-hatch and not strictly linear; squeegee burn follows straight pulls and window edges.
- vs. Coating rub/patchiness (Co.01/Co.03): coating anomalies are on coated worked surfaces and are disallowed at acceptance on coated faces; document coating presence in Forms:

Documentation and inspection

- Photo set (VIS): 12 / 36 / 72 in at normal + oblique; include raking frames that show linearity parallel to squeegee travel; include a straight-edge reflection for alignment.
- MSRT result: record SC-0/SC-1 (single, non-marring pass; polymer stylus on suspected coatings).
- Forms: Pane ID; product family & surface numbering; worked surface Y/N; functional coating present on worked surface?

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-m-02-05-squeegee-burn-lines-friction-film/>