

DSS-M.01.04 | Mechanical Abrasion, Scoring, Impact & Cracking

Conveyor/Belt Line Scoring (handling line)

Mechanical scoring on the worked surface - appearance-based classification; acceptance per VIS §6

Diagnosis summary

Long, transport-direction linear lines/bands produced when a lite slides or oscillates on a conveyor/belt/handling rail during fabrication, glazing, or site handling. Presents as directional linear scoring that is often bay-to-bay continuous, sometimes in parallel sets at consistent spacing; in raking light, edges can show bright "chip-flanks"/micro-chipping when depth increases.

Field identification cues

- Surface-catch class (MSRT):
- SC-1 (slight) for shallow transport marks; SC-2 (clear) when scoring with chip-flanks is present. MSRT = one light, non-marring pass to support classification (not acceptance).
- Reveal / lighting / geometry:
- Complete Non-Invasive Reveal; then evaluate at 12 / 36 / 72 in with normal incidence + oblique sweep (~60°-120°) under raking light, per VIS. Record distances/angles in the photo frames.

Classification, severity and scope

- Assign CAT by visibility convention + MSRT and edge/morphology (three-part cueing in VIS):
- CAT-2 - Light: Fine, clean-edged lines with SC-1; no pronounced chip-flanks; limited impact at standard view.
- CAT-3 - Moderate: SC-2 with minor chip-flanks; noticeable at standard distance.
- CAT-4 - Severe: SC-2 (clear-to-strong) with rough chip-flanks, occasional pits/craters; distinctly visible at standard and wide-field views.
- (Classification is appearance-based; acceptance governed separately by VIS §6.)

Distinguishing criteria

- vs.
- vs. Glass-on-glass tracks (M.01.03): Tracks are frequently paired arcs/lines reflecting sweep/pivot; conveyor lines are transport-direction runs and may repeat across lites.
- vs. Residue films/overspray (R-family): Residues change with Non-Invasive Reveal; scoring persists. (Apply VIS reveal + geometry.)

Documentation and inspection

- Photo set (VIS): 12 / 36 / 72 in, normal + oblique, include raking.
- MSRT result: Record SC class (SC-1 or SC-2 as observed); one pass, non-marring.
- Forms: Pane ID; surface numbering (#1-#4 / laminate-internal); worked surface Y/N; geometry checklist; reveal status; lighting/time; attach photos-per VIS Appendix X3.

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-01-04-conveyor-belt-line-scoring-handling-line/>