

# Fixture Load Reference Card — Store Floor

One-page field card. Verify against engineer / manufacturer data for your substrate and hardware.

## Anchors by substrate (typical — confirm locally)

- Drywall only (no stud): do not hang loaded fixtures — hit studs or use blocking.
- Wood stud 16" o.c.: structural screws into stud; use rated toggles only for light loads between studs.
- Steel stud: self-drilling + rated anchors; check gauge. Prefer blocking for heavy runs.
- Concrete / CMU: wedge or epoxy anchors per manufacturer embedment.
- Brick / hollow: sleeve or epoxy systems rated for hollow base material.

## Slatwall capacities (order-of-magnitude — use tested ratings)

- MDF slatwall without inserts: light accessories only; groove crush is the failure mode.
- MDF/HDF with aluminium inserts: substantially higher — still derate for uneven loading.
- Groove centres usually 3"; bracket engagement and insert quality dominate capacity.
- Never extrapolate a per-hook rating to a full bay without checking panel + stud path.

## Common failure modes

- Groove crush / insert pull-out on overloaded slatwall
- Screw withdrawal from drywall or thin steel studs
- Overturning of freestanding gondolas without base ballast / floor fixings
- Seismic / tip requirements ignored in high-risk jurisdictions
- Uneven point loads vs published uniform load ratings