

The Master Sail Trim & Rigging Aerodynamics Card

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TECHNICAL SPECIFICATIONS & VERIFIED BENCH TOLERANCES:

1. Draft Depth (Camber): Light Air (4-8 kts): Full draft (12-14%) | Heavy Air (18+ kts): Flat (8-10%)
2. Draft Position: Optimal center of effort: 40-45% aft from luff. Tighten halyard/cunningham to pull forward
3. Twist Control: Trim mainsheet until top leech telltale streams aft 85% of time; ease vang if leeward stalls
4. Traveler Trim: In light air, pull traveler windward of centerline; in gusts, drop traveler down leeward track
5. Jib Lead Car Position: If top telltales break first, move car forward; if bottom breaks first, move car aft
6. Standing Rigging Tension: Upper Shrouds: 15-18% breaking strength | Lower: 12-14% (Verify with Loos Gauge)
7. Heavy Weather Depowering Sequence: 1. Outhaul flat -> 2. Traveler down -> 3. Backstay on -> 4. Reef 1

Verified in Compliance with ABYC Standards - ISO 9001 Review Protocol - SM-PDF-2026