

CODE IS THE FLOOR. STANDARD IS THE CEILING.

Scope: Sivoia QS Triathlon (battery roller & cellular) · Sivoia QS Wireless (wired AC/LV roller, cellular, drapery) · Palladiom Shading System (wired) · Palladiom Wire-Free (battery) · Pocket, recess & light-gap discipline · Bracket and J-box rough-in · QS link wiring & QSPS power · Palladiom keypad coordination · HomeWorks QSX shade integration. Luxury residential only.

§01	OPERATING PRINCIPLES
- Shades are pre-wall finish, not window treatment. The pocket, recess, and bracket location are framed before the rock. - One Lutron platform per project. Mixing Triathlon battery and Palladiom wired in the same room is a coordination defect. - Light gap is a tolerance, not an aspiration. Palladiom delivers ½ in. — the framing must hold ½ in. - Power and link routing land at framing. The QS link is a low-voltage discipline equal to lighting. - The fascia, jamb, or pocket is set by the architect; the bracket is set by the manufacturer. Both must agree on the framing drawing.	

§02	APPROVED PLATFORMS — RESTREPO BASELINE
- Sivoia QS Triathlon — battery-powered roller & cellular up to 144 in. Wireless RF; no QS link. - Sivoia QS Wireless — wired 24 V AC/LV roller (Roller 64/100 EDU) and drapery; QS link required. - Palladiom Shading System (wired) — exposed motorized roller, ½ in. light gaps, 24-36 V QS link. - Palladiom Wire-Free — battery exposed roller; D-cell sleeve in the bracket, QS RF. - Palladiom Keypads (QS or HomeWorks) — engineered-flush control surface; coordinate with Vol 07. - Specifier-driven alternates: Lutron Serena, Lutron Architectural Drapery — only on the lighting plan.	

§03	WITHOUT WRITTEN DIRECTION — DO NOT DEFAULT
- Field-cut a pocket to fit a shade ordered before framing. Pocket is sized off the shade spec. - Mount a Palladiom Wire-Free outside 0.625 in. projection or under 6 in. door clearance (App Note #802). - Run shade power on a lighting branch circuit. QSPS power is dedicated low-voltage. - Substitute a non-Lutron motor or controller mid-job because the shade arrived late. - Mount a Triathlon WIDR shade outside spec'd recess depth — rollup clearance is published per width. - Rely on a QS Wireless main repeater outside the 60 ft. RF envelope without a satellite. - Set limit positions after drywall closes — limits are programmed at the bracket, before fascia.	

§04	POCKET, RECESS & LIGHT GAP
- Palladiom wired light gap: ½ in. on the head, ½ in. each side — confirmed against framing tolerance before rock. - Triathlon recess: per the Triathlon Tech FAQ — recess depth published by shade width and rollup diameter. - Palladiom Wire-Free pocket: 6 in. minimum room-side clearance per App Note #802; battery sleeve clearance verified. - Drapery Lite pocket: 1.06 in. minimum width × 1.3 in. minimum depth per spec submittal 085334c. - Fascia options confirmed at framing: architectural, fabric-wrapped, or exposed — each has its own bracket footprint. - Where the pocket cannot hold tolerance, re-frame the pocket. Never trim the bracket face to fit the pocket.	

§05	SIVOIA QS TRIATHLON (BATTERY)
- WIDR roller up to 144 in. wide; standard Triathlon roller per spec submittal 085333. - Battery D-cell count scales by width — confirm against Triathlon Tech FAQ before order. - Limits programmed at the bracket before fascia install per guide 045507. - Top-treatment confirmed at framing: architectural, fabric-wrapped, or exposed (Doc 3672656). - RF range to Pico, Caséta, RadioRA 3, or HomeWorks — verified at the framing walk.	

§06	SIVOIA QS WIRELESS (WIRED)
- Roller 64 / Roller 100 EDU — wired 24 V system per spec 086126; QS link required. - Wire length charts published per AWG (12, 16, 18) in wiring & programming guide 045314 — no ad-hoc wire lengths. - Power source: QSPS panel power supply or QSPS-J-1-35V J-box — chosen at design, not in the field. 100 devices per zone capacity — ganged shades budgeted against this number, not against bay count. - Wireless main repeater (RR-MAIN-REP-WH) line-of-sight tested at framing. Satellite repeaters added where RF is shadowed. - Drapery Lite (track up to 216 in.) — pocket 1.06 in. × 1.3 in. min, 24-36 V power, pinch-pleat capacity per spec 085334c.	

§07	PALLADIOM SHADING (WIRED)
- Exposed motorized roller — ½ in. light gaps, Intelligent Hembar Alignment, finish options Clear Anodized / Pure White / Opal White / Brass. - Bracket family: end, center, jamb — bracket model selected at framing per spec submittal 085560I. - Wire management: spackle rings or wire housing per the same spec — selected at framing, not at install. - Power: QSPS or QS link from the panel; 24-36 V on the QS link, Class 2 SELV/PELV. - Fabric deductions and bracket dimensions published — provide the manufacturer cut sheet to the framer, not to the AV integrator. - Hembar alignment verified across multi-shade openings — shades are zoned to a single processor scene for synchronized landing.	

§08	PALLADIOM WIRE-FREE (BATTERY)
- Bracket projection 0.625 in. maximum — pocket and recess sized to this number, not field-trimmed. - D-cell battery sleeve configurations: 3-, 4-, or 6-battery — selected at order against shade width and use frequency. - Pocket and recess clearance per App Note #802; door applications require 6 in. minimum room-side clearance. - Dual and corner butt-and-pass mounting documented in App Note #802 — both shades on the same RF zone. - RF link to QS Wireless or HomeWorks QSX; satellite repeater used where the RF envelope is shadowed by mass. - Battery service door accessible from the room side — confirm fascia or millwork doesn't trap the door at install.	

§09	QS LINK, POWER & WIRE MANAGEMENT
- QS link: 18 AWG minimum, daisy-chain, T-tap, or Y-configurations per spec — terminations at the bracket, not at the wall. - QSPS panel power supply sized against load: shade EDUs at full draw, plus integration overhead — not nameplate-only sizing. - Junction box QSPS-J-1-35V used for individual Sivoia QS Wireless Roller 64 shade where panel power is impractical. - Wire length per gauge published in guide 045314 — no field improvisation past the published table. - Service loops at the bracket: one full coil minimum, dressed inside the bracket, never under the fascia. - Class 2 SELV/PELV separation maintained against line voltage in every back-box and conduit run.	

§10	HOMEWORKS QSX INTEGRATION
- All Restrepo new-construction projects target HomeWorks QSX — see Application Note #840 for QSX upgrade migration. - QS wired shades on the QS link; Palladiom Wire-Free and Triathlon on the RF link via main and satellite repeaters. - Shade scenes programmed at the keypad and the processor — Palladiom Keypad covered in Vol 07. - Astronomic time-clock for shades documented per zone — sunrise / sunset offsets logged in the as-built. - Integration with audio, video, and HVAC scenes follows the QSX architecture — no shade scene lives outside the processor database. - Legacy HomeWorks Illumination upgrades follow App Note #840 link-type changes; never field-mix Illumination and QSX on the same project.	

§11	DRAPERY, HONEYCOMB & SPECIALTY
- Drapery Lite (Sivoia QS Wireless): track up to 216 in., pocket 1.06 in. × 1.3 in. min, pinch-pleat capacity per spec 085334c. - Triathlon Insulating Honeycomb: cellular shade per spec 085275g — battery, wired, and cordless variants. - Specialty geometries (skylight, arch, sloped) coordinate with Lutron specials team at design — never specified in the field. - Architectural drapery (full Sivoia QS wired drapery): pocket and bracket dimensions published per the architectural drapery spec. - Wood-blind Triathlon variants per the Triathlon Solutions Brochure — confirm valance dimensions at framing. - All specialty shades documented on the same framing drawing as the standard shades — one drawing per project.	

§12	COORDINATION — FRAMER, DRYWALL, PAINTER
- Framer holds pocket dimensions and bracket-stud blocking against the manufacturer cut sheet, not the architect's section detail. - Drywall returns to the bracket reveal line — no skim coat over the bracket face, no compound on the bracket flange. - Painter masks every bracket and battery sleeve before primer; finish painting before shade install eliminates touch-up around fabric. - Walk every shade location before close-in: framer, drywaller, painter, AV — same walk as Vol 07 Flush-Mount. - Final wall and pocket plane verified after paint, before bracket install. Out-of-plane pockets re-shimmed, never trimmed. - Shade fabric protected in factory packaging until paint cure complete and pocket dust-free.	

§13	COMMISSIONING, LIMITS & SPARES
- Limits set per shade with installation guide 045612 (Triathlon WIDR) or 045507 (Triathlon roller); QS wireless per programming guide 045314. - Hembar alignment verified across grouped openings — out-of-alignment shades re-set, not accepted. - Astronomic time-clock and scene programming logged per zone in the QSX as-built. - RF link tested from every shade to its repeater under closed-pocket condition, not open-stud. - Spare batteries, fabric color samples, and one spare D-cell sleeve per project delivered at closeout. - Owner walkthrough: every scene demonstrated, every Pico or keypad button labeled, programming exported to Lutron cloud.	

QC GATE — VERIFY BEFORE CLOSE-IN

☐ Pocket & recess dimensions verified against Lutron cut sheet	☐ Light gap held to spec (½ in. on Palladiom wired)	☐ Bracket stud-blocking present · platform reveal line set	☐ QS link or RF path tested before drywall closes	☐ QSPS sizing & J-box placement matches design package
☐ Power and Class 2 separation maintained throughout	☐ Limits programmed at bracket before fascia install	☐ Hembar alignment verified across grouped openings	☐ Scenes & astronomic clock logged in QSX database	☐ Spares, batteries & fabric samples delivered at closeout