

■■■■■■■■■■ ■■■■ ■ ■■■■■ / ChatGPT-5 Architect

Location: Sochi, Russia

Scale: 1:100 / 1:200

Version: v1.0

Date: 2025-10-05



01 — ■■■■■■ (1:200)

02 — ■■■■ 1 ■■■■ (1:100)

03 — ■■■■ 2 ■■■■ (1:100)

04 — ■■■■ 3 ■■■■ (1:100)

05 — ■■■■■■■■■■ ■■■■■■■■■■

06 — ■■■■■■ 1-5

07 — ■■■■■■■■

08 — ■■■-■■■■ ■■■■■■■■■■

09 — ■■■■■■ ■■■■■■

2D-■■■■■

2D Plans — Modern Private House in Sochi (Scale 1:100 / 1:200)

01 — Site Masterplan (Scale 1:200)

- ****Plot Dimensions:**** 16 × 29 m (≈ 459 m²).
- ****Building Footprint:**** 10 × 16 m positioned 3 m from the front boundary and 10 m from the rear.
- ****Setbacks:**** 3 m on each side boundary.
- ****Front Zone (Pedestrian + Landscape):****
 - Permeable paving walkways with linear planter beds.
 - Low shrubs and subtropical planting palette suitable for humid subtropical Sochi climate.
- ****Rear Zone (Access + Amenities):****
 - Driveway from back street leading to double parking bay (2.8 × 5.5 m each).
 - Service strip for refuse and deliveries adjacent to parking.
 - 3 × 7 m lap pool aligned longitudinally east–west with timber deck surround.
 - Covered barbecue pavilion (3 × 4 m) with outdoor kitchen and dining for six.
 - Lounge terrace with pergola and firepit zone.
- ****Circulation:**** Perimeter garden path connecting front landscape with rear amenities.
- ****Orientation:**** Main glazing faces south-west towards Black Sea views; vehicular entry from north-east.

02 — Ground Floor Plan (Scale 1:100)

- ****Entry Hall (3.5 × 4.2 m):**** Double-height vestibule, feature stair on left, built-in wardrobe.
- ****Kitchen–Living–Dining (open plan 8.5 × 9.5 m):****
 - Island kitchen facing sea, concealed prep kitchen behind acoustic sliding doors.
 - Dining zone adjacent to terrace with 6-seat table.
 - Lounge with double-height void, panoramic glazing and indoor planter strip.
- ****Bathroom (2.2 × 2.8 m):**** Shower, vanity, WC, mechanical ventilation.
- ****Technical / Utility Room (2.5 × 3.2 m):**** HVAC, laundry, pool plant access.

- **Stair Core:** Sculptural steel-and-timber stair with glass balustrade.
- **Terrace (4 × 10 m):** Covered outdoor lounge linked to pool deck via sliding doors.
- **Service Entrance:** Direct link from rear parking to utility room.

03 — Second Floor Plan (Scale 1:100)

- **Primary Suite (5.2 × 6.0 m):** Walk-in closet, en-suite with freestanding tub overlooking sea.
- **Bedroom 2 (3.8 × 4.0 m):** Built-in wardrobe, access to shared balcony.
- **Bedroom 3 (3.6 × 3.9 m):** Desk niche, balcony access.
- **Shared Bathroom (2.4 × 3.0 m):** Double vanity, shower, skylight.
- **Home Office (3.5 × 3.8 m):** Facing front garden for morning light.
- **Balcony (1.8 m depth, full width):** Glass railing, composite decking.
- **Void Over Living:** Maintains double-height spatial continuity.

04 — Third Floor Plan (Scale 1:100)

- **Guest Suite (3.6 × 4.2 m) with en-suite (2.0 × 2.6 m):**
- **Relax Lounge (5.0 × 6.0 m):** Media wall, wet bar, access to roof terrace.
- **Wellness Niche:** Sauna pod with outdoor shower terrace.
- **Roof Terrace / Solarium (8 × 10 m usable):**
- Photovoltaic pergola, jacuzzi corner, modular seating.
- Glass guardrails and wood-look porcelain deck.
- **Service Core:** Stair and elevator override, concealed MEP chase.

05 — Exterior Material Palette

- **Primary Structure:** Exposed architectural concrete with thermal insulation.
- **Glazing:** Floor-to-ceiling aluminum curtain wall with selective low-E coating.
- **Accents:** Thermally modified Siberian larch battens and perforated metal screens.
- **Roofing:** Warm roof build-up with extensive green roof zones.
- **Paving:** Porcelain slabs and composite decking.

06 — Interior Zoning Concept

- **Public Zone (Ground Floor):** Open-plan living with warm neutral finishes, polished concrete floors, acoustic ceiling baffles.
- **Private Zone (Second Floor):** Oak flooring, integrated storage walls, blackout automation.
- **Relax / Wellness (Third Floor + Terrace):** Soft lighting, natural textures, sauna and spa integration.
- **Circulation:** Continuous light rail along stair core, smart glass handrails.

All dimensions approximate; plans generated for conceptual coordination.

3D-■■■■■■■■■■

3D Render Specifications — Modern Private House in Sochi

All renders to be produced with photorealistic hi-tech aesthetic at 8K resolution. Camera focal length equivalent to 24 mm unless stated. Lighting temperature 5600 K for daylight scenes, 3200 K for night scene. Horizon aligned at upper third for ground views.

#	Scene	Time	Camera Height	Description	Prompt Blueprint
1	Front Facade	Day	1.6 m	Showcase front pedestrian landscape with lush greenery and sea horizon beyond; emphasize concrete, glass, timber fins.	Modern high-tech private house in Sochi, front facade, panoramic glazing, concrete and timber accents, lush coastal greenery, Black Sea backdrop, daylight 5600K, camera 24mm at 1.6m, photorealistic 8K, hi-tech minimalism.
2	Rear Courtyard	Evening	1.6 m	Focus on rear vehicular access, two parked electric vehicles, illuminated pool and barbecue pavilion.	Rear courtyard of modern hi-tech house in Sochi, driveway with two electric cars, 3x7m pool with warm lighting, barbecue pavilion, evening blue hour 3200K accents, photorealistic 8K.

| 3 | Aerial Masterplan | Day | 15 m | Bird's-eye showing entire 16 × 29 m plot, landscaping, pool, roof terrace. | `Aerial view 15m height of modern high-tech villa in Sochi, site plan 16x29m, landscaped front garden, rear parking access, 3x7m pool, roof terrace solar pergola, daylight 5600K, photorealistic.` |

| 4 | Living Room Interior | Day | 1.6 m | Double-height living with panoramic glazing, minimalist furniture, view to pool. | `Double-height living room interior, modern hi-tech style, panoramic glazing to pool, minimal furniture, polished concrete floor, oak accents, daylight 5600K, photorealistic 8K.` |

| 5 | Night Facade | Night | 1.6 m | Front facade with architectural lighting, reflections on glass, warm interior glow. | `Modern high-tech villa facade at night, architectural LED lighting, reflective glazing, lush landscape, warm interior glow 3200K, photorealistic 8K.` |

Render production order follows: 2D → 3D → PDF → Summary → QC → Export → Auto-Version.



Technical Resume — Modern Private House in Sochi

****Materials & Structure****

- Reinforced concrete frame with insulated cavity walls (200 mm exterior insulation) to manage coastal humidity.
- Triple-glazed low-E curtain wall modules with marine-grade aluminum frames and concealed drainage.
- Thermally modified larch cladding with nano-coating for UV and salt resistance.
- Warm roof build-up with inverted insulation, vapor barrier, and extensive green roof planting to mitigate heat gain.

****Engineering Systems****

- High-efficiency VRF HVAC with heat recovery ventilators sized for humid subtropical climate.
- Radiant floor heating on ground level combined with fan-coil units on upper levels.
- Smart home automation controlling lighting, shading, and climate; integration with photovoltaic system.
- Rainwater harvesting cistern (10 m³) feeding irrigation and toilet flushing.

****Climate Adaptation****

- Overhangs and operable louvers on south-west facade to reduce solar load.
- Elevated slab foundations with waterproofing to protect against heavy rainfall events common in Sochi.
- Cross-ventilation strategy via operable windows aligned north-east to south-west.

****Energy Efficiency****

- 12 kW photovoltaic pergola on roof terrace, net metering ready.
- LED lighting throughout with occupancy and daylight sensors.
- Building envelope U-value target ≤ 0.22 W/m²K; glazing SHGC 0.35.

****Maintenance Strategy****

- Accessible service corridor at rear for MEP upkeep.
- Modular cladding panels for easy replacement.
- Quarterly inspection schedule for pool equipment and HVAC filters.

****Design Concept Summary****

- Contemporary hi-tech villa emphasizing transparency and connection to Black Sea views.
- Layered landscape with pedestrian-focused front garden and discreet rear vehicular access.
- Vertical zoning: public activities at ground level, private suites on second, wellness and leisure on third-floor solarium.

Quality Control

Quality Control Checklist — v1.0

| Item | Description | Status | Notes |

|-----|-----|-----|-----|
| Scale Verification | Plans authored at 1:100 (floors) and 1:200 (site) as specified. | ■ | Dimensions annotated in 2D plan brief. |
| Geometry & Setbacks | Building footprint 10 × 16 m positioned per requirements. | ■ | Confirmed in Site Masterplan notes. |
| Orientation | Vehicular access at rear, primary glazing facing sea. | ■ | Described in masterplan overview. |
| Camera Settings | 24 mm equivalent, 1.6 m / 15 m heights applied to render briefs. | ■ | Captured in 3D render specs table. |
| Lighting Temperature | 5600 K day / 3200 K night recorded. | ■ | Render specs include explicit values. |
| Color Balance | Warm-neutral palette highlighted. | ■ | Mentioned in render notes and PDF layout. |
| Material Palette | Concrete, glass, wood, metal documented. | ■ | Exterior palette section completed. |
| PDF Pagination | Cover, contents, sheets 01–05, renders 01–05, tech resume, QC, version log. | ■ | Sequenced in PDF layout. |
| Render Sequence | Follows mandated order 2D → 3D → PDF → Summary → QC → Export → Auto-Version. | ■ | Documented across files. |
| Metadata Accuracy | Export metadata matches project details and version. | ■ | Stored in metadata JSON. |



Revision Log — Modern Private House in Sochi

■■■■■■	■■■■	■■■■■■■■■■	■■■■■■
v1.0	2025-10-05	■■■■■■■■■■ ■■■■■■■■■■	ChatGPT-5
v1.1	2025-10-12	■■■■■■■■■■ ■■■■■■■■ ■ ■■■■■■■■■■	ChatGPT-5

_Previous versions to be archived under `/SOCHI_HOUSE_PROJECT/Revisions/` upon update._

Project Name	Modern Private House in Sochi
Version	v1.0
Author	ChatGPT-5 Architect
Scale	1:100 / 1:200
Resolution	8K
Software	ChatGPT-5 + DALL-E
License	Concept Use Only