FINDING SOLUTIONS, NOT JUST IMAGINING

Permanent seismic-grade S320GD/S350GD Z275 light-gauge steel framing kits, luxury modern steel villas, hillside cantilever residences, and full interior fit-out packages by DEKSACH S.A.

APPLICABLE ENGINEERING, COMPLIANCE & QUALITY STANDARDS

EN 10346 (S320GD / S350GD + Z275), Eurocode 3 Part 1-3 (EN 1993-1-3), Eurocode 8 Seismic Design, ISO 1461

Route de Jeunes, 1227 Genève — Switzerland
Tel / WhatsApp: +41 798 43 44 24

deksach.com
deksach@deksach.com
Established 2004

DIVISION PROFILE & SUPPLY ARCHITECTURE

Light-Gauge Steel Houses, Villas & Building Systems

Combining precision CAD/CAM roll-formed galvanized steel framing with contemporary residential architecture, DEKSACH S.A. delivers permanent multi-decade steel villas and structural LGSF kits engineered for extreme seismic zones, coastal wind loads, and high European energy-efficiency classes.

Key Export & Engineering Highlights

- CNC roll-formed S320GD/S350GD structural steel profiles with Z275 hot-dip zinc coating
- Permanent residential durability exceeding 70+ years with superior seismic ductility
- Bespoke cantilevered, sloped-hillside, and curtain-wall luxury villa engineering
- Optional complete interior fit-out packages including kitchens, MEP, flooring, and bathrooms

Commercial & Logistics Execution

Contracting Desk:
DEKSACH S.A. (Genève, Switzerland)

Incoterms 2020:
EXW, FOB, CFR, CIF, DAP & Turnkey Project Delivery

Quality Assurance:
Independent SGS / Bureau Veritas / Intertek pre-shipment inspection

Settlement Structures:
Corporate Proforma, Irrevocable Documentary L/C, SBLC, or Escrow

VISUAL REFERENCE PORTFOLIO

PRODUCT LINES COVERED IN THIS CATALOG (5 EXPORT GROUPS)

01. Light-Gauge Steel Framing (LGSF) Structural Kits & Roll-For...
02. Modern Two-Story Light Steel Villas & Contemporary Reside...
03. Single-Story Turnkey Light Steel Family Houses & Bungalows
04. Architectural Hillside & Cantilevered Hybrid Steel Luxury Villas
05. Turnkey Steel House Interior Fit-Out, Kitchen, Bathroom & ...

CAT-03 • STRUCTURAL LGSF KITS

Light-Gauge Steel Framing (LGSF) Structural Kits & Roll-Formed Systems

Precision CNC roll-formed S320GD/S350GD Z275 galvanized light-gauge steel structural framing kits, floor joists, and roof trusses exported to developers and contractors via DEKSACH S.A.

Export & Project Scope: Residential housing developers, dry-construction contractors, multi-story infill wall framing, rooftop building extensions, and modular factory assemblers.

TECHNICAL SPECIFICATIONS

Steel Grade & Coating	EN 10346 Structural S320GD / S350GD + Z275 (275 g/m² hot-dip zinc) or AZ150 AluZinc
Profile Web Sizes	90 mm, 100 mm, 140 mm, 150 mm, and 200 mm C/U studs, tracks, and lattice joists
CNC Precision	CAD/CAM automated punching, dimpling, service holes, swaging, and inkjet part coding
Design Codes	Eurocode 3 Part 1-3 (EN 1993-1-3), AISI S100, and Eurocode 8 seismic ductility
Kit Supply Scope	Flat-bundled numbered steel frames, structural fasteners, hold-down anchors, and shop drawings

KEY SUPPLY ADVANTAGES

- Millimetric CNC accuracy eliminating on-site cutting waste, timber warping, and termite risk
- High strength-to-weight ratio ideal for weak soils, seismic zones, and rooftop story additions
- Pre-punched MEP service slots accelerating electrical and plumbing rough-in by up to 50%

Web Spec Sheet: https://deksach.com/product/light-gauge-steel-framing-lgsf/

CAT-03 • LUXURY DUPLEX VILLAS

Modern Two-Story Light Steel Villas & Contemporary Residences

Two-story luxury modern steel-frame villas engineered to Eurocode 3 seismic and wind-load standards with minimalist flat/pitched roofs, panoramic glass facades, and A-class insulation by DEKSACH S.A.

Export & Project Scope: Luxury gated residential developments, private coastal and alpine villas, real-estate investment estates, and executive diplomatic residences.

TECHNICAL SPECIFICATIONS

Gross Floor Areas	140 m² to 450+ m² customizable 3+1, 4+1, and 5+2 duplex villa architectures
Wall Multi-Layer Build	OSB/Board + breathable membrane + 140 mm mineral wool + ETICS/composite rainscreen + double gypsum
Thermal Performance	External wall U-value 0.18 – 0.24 W/m²K compliant with European NZEB energy targets
Seismic & Wind Rating	Engineered for PGA up to 0.4g+ seismic zones and 150+ km/h coastal wind pressures
Glazing & Terraces	Thermal-break aluminum panoramic joinery, double-height lounges, and steel terrace decks

KEY SUPPLY ADVANTAGES

- Permanent multi-generation luxury villa construction with zero shrinkage or cracking
- Up to 10% more net usable interior floor area compared to thick masonry/concrete walls
- Superior thermal and acoustic envelope cutting heating and cooling energy demand by up to 45%

Web Spec Sheet: https://deksach.com/product/modern-steel-frame-villas/

CAT-03 • SINGLE-STORY LIVING

Single-Story Turnkey Light Steel Family Houses & Bungalows

Single-story turnkey light-steel family homes and barrier-free bungalows engineered with multi-layer thermal/acoustic insulation packages for fast four-season residential living via DEKSACH S.A.

Export & Project Scope: Suburban single-family housing plots, retirement & barrier-free villages, holiday home developments, and municipal residential projects.

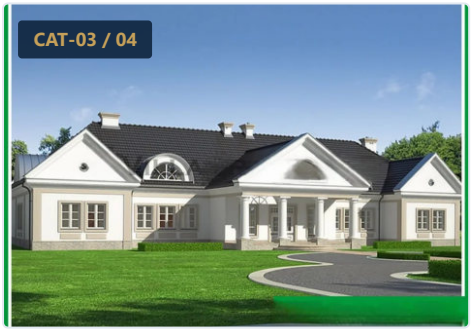
TECHNICAL SPECIFICATIONS

Standard Layouts	65 m² (2+1), 95–125 m² (3+1), and 140–200 m² (4+1) veranda bungalow plans
Roof Truss System	Galvanized LGSF clear-span roof trusses with standing-seam metal, shingle, or clay tile
Insulation Core	100–150 mm mineral wool wall cavity + 200 mm ceiling insulation + vapor barrier
Fire Resistance	60 to 120 minutes structural fire resistance (REI 60 / REI 120) with fire-rated boards
Erection Timeline	2 to 4 weeks on-site structural and weather-tight shell completion

KEY SUPPLY ADVANTAGES

- Step-free ergonomic single-level floor plans with covered verandas and garden integration
- Dry construction methodology enabling year-round installation even in winter climates
- Complete structural shell or full turnkey export kits tailored to local building permits

Web Spec Sheet: https://deksach.com/product/single-story-steel-houses/



CAT-03 • SIGNATURE ARCHITECTURE

Architectural Hillside & Cantilevered Hybrid Steel Luxury Villas

Custom architectural sloped-terrain and dramatic cantilevered luxury villas combining heavy hot-rolled structural steel beams with precision LGSF envelopes through DEKSACH S.A.

Export & Project Scope: Steep coastal cliffs, alpine mountain plots, lakefront panoramic estates, and signature architect-designed luxury hospitality pavilions.

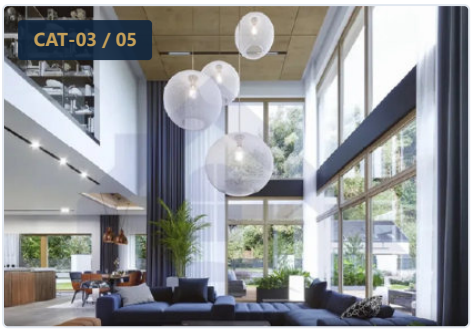
TECHNICAL SPECIFICATIONS

Hybrid Structural System	Hot-rolled S355 steel primary portal/cantilever beams + S350GD Z275 LGSF infill walls
Cantilever Projections	Engineered 2.5 m to 6.0+ m dramatic overhang projections and infinity terrace decks
Sloped Site Adaptation	Stepped split-level or stilt/pier foundations minimizing costly rock excavation
Facade Engineering	Minimal-frame panoramic curtain walls, sintered stone, corten/composite, and thermowood
Structural Analysis	3D FEM dynamic seismic, wind-tunnel pressure, and deflection control engineering

KEY SUPPLY ADVANTAGES

- Transforms challenging steep or rocky plots into high-value panoramic architectural residences
- 65% lighter dead-load than reinforced concrete, drastically reducing hillside foundation costs
- Full collaboration with client architects to translate bespoke 3D concepts into exportable kits

Web Spec Sheet: https://deksach.com/product/architectural-hillside-cantilever-steel-villas/



CAT-03 • TURNKEY INTERIOR FIT-OUT

Turnkey Steel House Interior Fit-Out, Kitchen, Bathroom & MEP Packages

Complete factory-consolidated interior fit-out packages for steel villas and housing estates—including modular kitchens, porcelain bathrooms, flooring, doors, lighting, and MEP via DEKSACH S.A.

Export & Project Scope: Multi-villa real-estate developers, remote island/resort construction projects, and private buyers seeking single-source turnkey interior completion.

TECHNICAL SPECIFICATIONS

Kitchen Cabinetry	Custom modular MDF-lam / acrylic / lacquer kitchens with quartz countertops & sinks
Bathrooms & Sanitary	Rectified porcelain tiles, wall-hung WC cisterns, walk-in glass showers, brass faucets
Flooring & Doors	AC4/AC5 laminate, SPC waterproof vinyl or engineered parquet + lacquered interior doors
MEP & Smart Home	Halogen-free wiring, switchgear, PPR/PEX plumbing, underfloor heating & VRF readiness
Architectural Lighting	Recessed linear LED profiles, spot luminaires, exterior facade sconces, and switches

KEY SUPPLY ADVANTAGES

- Eliminates fragmented local subcontractor sourcing by shipping every interior finish in one package
- Pre-dimensioned to match exact CAD villa room schedules with zero quantity shortfalls
- Curated European Contemporary, Mediterranean Warm, and Alpine Minimalist material palettes

Web Spec Sheet: https://deksach.com/product/turnkey-steel-house-interiors-fitout/

STRUCTURED B2B PROCUREMENT

Submit your Bill of Quantities (BOQ), architectural drawings, target destination port, and preferred Incoterms directly to our corporate trade desk for a formal proforma quotation.

STEP 01

Share product codes, quantities, architectural plans, or commodity grade specifications with destination port details.

STEP 02

Receive a detailed commercial offer including technical datasheets, container loading plan, production lead time, and CIF/FOB pricing.

STEP 03

Execute standardized international sales contracts through DEKSACH S.A. with structured bank payment instruments.

STEP 04

Third-party pre-shipment verification, export customs clearance, EUR.1 / Certificate of Origin, and containerized sea/air dispatch.

OFFICIAL CORPORATE HEADQUARTERS & DIRECT TRADE DESK COORDINATES

LEGAL CONTRACTING ENTITY
DEKSACH S.A.

REGISTERED HEADQUARTERS
Route de Jeunes, 1227 Genève — Switzerland

DIRECT GSM & WHATSAPP DESK
+41 798 43 44 24

CORPORATE EMAIL & ONLINE RFQ
deksach@deksach.com

ONLINE DIVISION PORTAL
https://deksach.com/catalog/light-steel-houses-buildings/

24/7 B2B QUOTATION PORTAL
https://deksach.com/rfq/

© DEKSACH S.A. — All Rights Reserved. Specifications subject to project engineering confirmation.