



ERKANLAR PREFABRİK

PREFABRICATED BUILDING SYSTEMS · İZMİR, TÜRKİYE

PREFABRICATED & MODULAR BUILDING SOLUTIONS

**Efficient. Flexible.
Engineered for Modern
Construction.**

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ABOUT THIS CATALOGUE

Erkanlar Prefabrik designs, produces and installs light-gauge steel, prefabricated and container building systems for residential, commercial, social, industrial and emergency needs. This catalogue presents the systems, their applications and the process by which a project is delivered.

An engineering-led building company.

Erkanlar İnşaat Prefabrik Yapı Sistemleri Ltd. Şti., operating as Erkanlar Prefabrik, designs, produces and installs light-gauge steel, prefabricated and container building systems for residential, commercial, social and industrial use.

Every structure is configured around its own conditions: the ground, the climate, the intended occupancy, the logistics of the site and its regulatory context. Architectural decisions, structural analysis, insulation build-up and building services are not developed in isolation. They are resolved as one coordinated system, so that what is drawn can be produced and what is produced can be installed as planned.

The company works in plain engineering language. A proposal describes the structural system, the envelope and the scope of work clearly, and every project moves through the same traceable sequence: from needs and site analysis, through architectural and technical design, to production, installation, inspection and handover.

WORKING PRINCIPLE

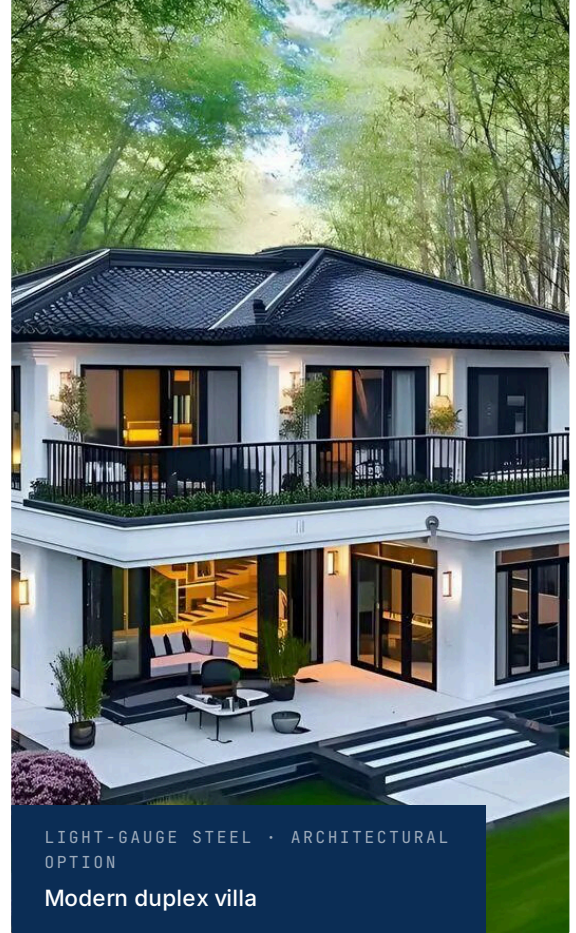
Read the brief carefully. Explain the technical solution clearly. Deliver through a traceable process.

COMPANY

Erkanlar İnşaat Prefabrik
Yapı Sistemleri Ltd. Şti.
Brand: Erkanlar Prefabrik

BASED IN

Buca, İzmir — Türkiye
Enquiries from Türkiye and
abroad • English & Arabic



LIGHT-GAUGE STEEL • ARCHITECTURAL
OPTION

Modern duplex villa

SYSTEMS

Light-gauge steel buildings
Prefabricated buildings
Modular & container units
Structural steel for wide spans

SCOPE

Design • Engineering • Production • Installation •
Handover

Six reasons to build with us.

The advantages of light-gauge steel are realised only when design, production and installation are managed as one process. That is how Erkanlar Prefabrik works.



LIGHT-GAUGE STEEL • MULTI-STOREY VILLA
Engineering, speed and architectural flexibility

01



Rapid installation

Components are prepared in a controlled environment, so the site programme is shorter and more predictable.

02



Seismic approach

The lightweight frame is configured through project-specific structural analysis, with connections and bracing defined for each site.

03



Energy efficiency

Thermal layers are detailed according to climate, occupancy and the chosen wall build-up.

04



Galvanized system

Galvanized profiles form a corrosion-protected structural spine for the building.

05



Flexible design

Plans, façades and spatial arrangements are adapted to the project brief rather than to a fixed set of models.

06



Controlled quality

Cutting, connections and assembly follow a measurable workflow, checked against the agreed scope before handover.

One portfolio, multiple building needs.

Scalable systems selected according to use, location, programme, logistics and technical expectations — from a single house to a settlement programme.



SYSTEM FAMILY A

Light-gauge steel buildings

Galvanized light-gauge steel frame at house and villa scale.

- Light-gauge steel houses
- Steel-frame villas
- Commercial prefabricated buildings
- Social facilities



SYSTEM FAMILY B

Modular & container units

Repeatable units designed around transport, services and interior layout.

- Office containers
- Living containers
- Security cabins
- Dormitory & canteen buildings
- Storage & kiosk containers
- WC & shower units



SYSTEM FAMILY C

Structural steel & special programmes

Steel construction assessed by span and loading; rapidly deployable settlement programmes.

- Wide-span industrial structures
- Emergency settlement buildings

SELECTION

How is the right system selected?

These conditions are evaluated together before a system is proposed.

01

02

03

04

05

06

07

Use Location Span Loading Occupancy Transport Installation

Where our systems are used.

From a single house to a settlement programme, the same engineering approach is applied at different scales and for different clients.

SECTOR	TYPICAL BUILDINGS	SYSTEMS APPLIED
Residential	Houses, villas, duplex and multi-storey homes, housing programmes	Light-gauge steel houses · Steel-frame villas
Commercial	Offices, retail units and operational buildings	Commercial prefabricated buildings · Office containers
Social & institutional	Social facilities, dormitory and canteen buildings, shared-use programmes	Social facilities · Dormitory & canteen buildings
Industrial & logistics	Warehouses, hangars, production and logistics buildings	Wide-span industrial steel structures
Site & temporary use	Site offices, security cabins, storage units, kiosks, WC & shower units	Office containers · Security cabins · Storage & kiosk containers · WC & shower units
Emergency & settlement	Temporary or longer-term accommodation with shared infrastructure	Emergency settlement buildings · Living containers



PRIVATE CLIENTS

Houses, villas and modular living spaces configured to the household.

CONTRACTORS, DEVELOPERS & INVESTORS

Residential schemes, offices, commercial and industrial buildings, site facilities.

PUBLIC & INSTITUTIONAL BODIES

Social facilities, dormitories, emergency and settlement programmes.

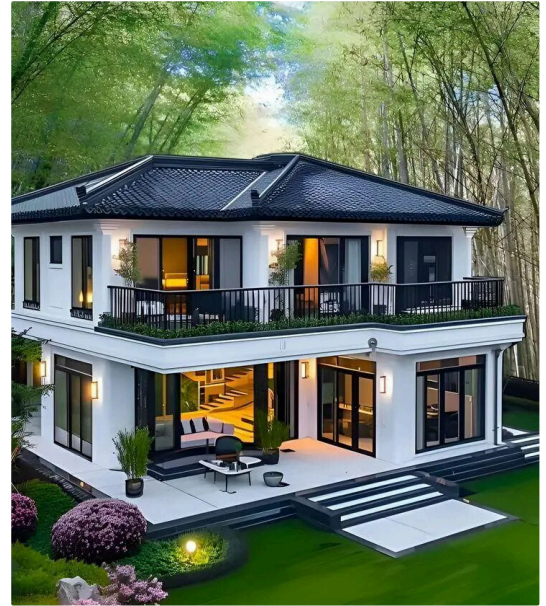
Light-gauge steel villas.

Architectural approaches for contemporary, classic and site-specific residential programmes. Each villa is developed from the client's plan, site and way of living on the same engineered frame.



5.1 Modern Light-Gauge Steel Villa

TWO STOREYS • MONO-PITCH ROOF • FULL-HEIGHT GLAZING



5.2 Modern Duplex Villa

TWO STOREYS • HIPPED ROOF • TERRACES



5.3 Single-Storey Classic Villa

SINGLE STOREY • PITCHED ROOF • COVERED ENTRANCE



5.4 Sloped-Site Housing Solution

SPLIT LEVEL • RAISED TERRACE • STEPPED ACCESS

Façade and massing options.

Representative architectural options that can be adapted during project design. The frame stays the same; façade material, roof form and number of storeys follow the brief.



5.5 Contemporary Two-Storey Villa

STONE & RENDER • PITCHED ROOF • BALCONIES



5.6 Stone-Façade Villa Model

NATURAL STONE FAÇADE • TILED ROOF • EXTERNAL STAIR



5.7 Modern Multi-Storey Villa

WHITE RENDER • FLAT ROOF • DEEP TERRACES



5.8 Timber-Façade Villa Model

TIMBER & STONE CLADDING • FLAT ROOF • POOL TERRACE

FAÇADE

Stone, timber, render, fibre-cement or mixed cladding.

ROOF FORM

Pitched, hipped, mono-pitch or flat.

MASSING

Single or multiple storeys, terraces, balconies and cantilevers.

OPENINGS

Window and door sizes, glazing and thresholds set by energy and use.

Compact and single-storey homes.

A selection of veranda, wide-front and compact house approaches for single-level living and fast installation.



5.9 Single-Storey Prefabricated House

PITCHED ROOF • TIMBER & RENDER • GARDEN TERRACE



5.10 Compact House with Veranda

COMPACT PLAN • FRONT VERANDA • PITCHED ROOF



5.11 House with a Wide Veranda

FULL-WIDTH VERANDA • LIGHT CLADDING



5.12 Classic Veranda House

STONE-ACCENT CORNERS • COVERED VERANDA



5.13 Wide-Front House Model

WIDE FRONTAGE • LOW-PITCH ROOF • CENTRAL ENTRANCE



5.14 Green-Roof House Option

COLOURED ROOF SHEET • SINGLE STOREY

CONFIGURED PER PROJECT

Same system,
different houses.

Plan

Rooms and
circulation

Roof form

Pitch and
covering

Veranda

Size and
position

Cladding

Material and
colour

Openings

Windows and
doors

Offices, living units and shared facilities.

Repeatable modular systems designed around transport, services, interior layout and operational needs.



MODULAR SOLUTION

Office & Living Containers

Relocatable units configured for office, accommodation and service needs — used individually or in combined arrangements.

- Project-specific insulation and service configuration
- Interior layout planned around the intended use
- Designed for transport and repeated relocation

MODULAR SOLUTION

Commercial & Social Facilities

Prefabricated systems for offices, retail, operations and shared-use programmes, planned with the services and finishes the programme requires.

- Project-specific insulation and service configuration
- Façade, glazing and entrance detailing to suit a public-facing use
- Interior layout and services planned around operational needs



UNIT TYPES IN THE RANGE

01	02	03	04	05	06
Office containers	Living containers	Security cabins	Dormitory & canteen buildings	Storage & kiosk containers	WC & shower units

Industrial and emergency building systems.

Large-span steel structures and rapidly deployable modular accommodation programmes.



STRUCTURAL STEEL

Steel systems for warehouses, hangars, production and logistics buildings. Span, loading and operational requirements are assessed and resolved at the engineering stage, before production begins.



RAPID SETTLEMENT

Emergency Accommodation

Scalable temporary or longer-term units planned around rapid installation, shared infrastructure and site logistics.

- Living units, dormitory and canteen buildings, WC and shower units
- Repeatable modules for speed of deployment
- Site layout planned with services and circulation

08

Plans and layout options.

Illustrative layouts that support early discussion of room programmes, circulation and spatial relationships before the architectural design stage begins.



8.1 Sample Floor Plan

SINGLE STOREY • FOUR BEDROOMS

8.2 Sample Duplex Layout

TWO STOREYS • GROUND & FIRST-FLOOR PLANS

8.3 Sample Villa Plan

ELEVATIONS & PLAN • MONO-PITCH ROOF

8.4 Three-Dimensional Layout

CUT-AWAY VIEW • FURNISHED ROOMS

WHAT A LAYOUT DISCUSSION COVERS

- Room programme — number, size and use of rooms
- Circulation — entrances, corridors, stairs and terraces
- Spatial relationships — how living, sleeping and service areas connect
- Number of storeys and the position of wet rooms and services

FROM SAMPLE TO PROJECT

Sample layouts are a starting point for conversation, not a fixed catalogue. In the architectural design stage, plans, façades and spatial relationships are shaped around the brief; in the technical design stage they are coordinated with the frame, openings, services and insulation.

SEE PROJECT PROCESS • P. 16

Technical framework.

The structural frame, envelope and building services are coordinated according to project and installation conditions.

STRUCTURAL CORE

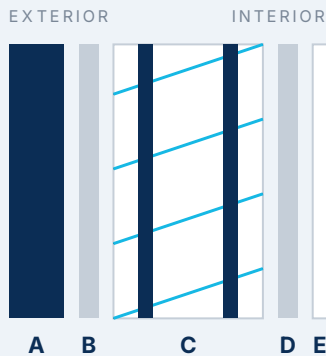
- Galvanized light-gauge steel profiles at house and villa scale
- Steel construction assessed by span and loading for industrial buildings
- Project-specific connections, anchors and bracing
- Structural and seismic analysis based on project conditions

STANDARDS APPROACH

Calculation and detailing principles are developed within a TS and Eurocode-based framework.

COORDINATED LAYERS

External wall	Steel spine, insulation layer and façade cladding; OSB, fibre-cement, Bordex or similar boards may be specified.
Internal wall	Partition framing and linings coordinated with room layout, services and acoustic expectations.
Insulation	Thermal, acoustic, waterproofing and moisture control treated as separate performance layers.
Roof	Form, pitch, covering, framing and waterproofing developed with the architecture.
Openings	Frame, glazing, security and threshold details selected according to energy and use.



EXTERNAL WALL BUILD-UP • SCHEMATIC

- A** Façade cladding
- B** External board — OSB, fibre-cement, Bordex or similar
- C** Galvanized steel spine with insulation layer between members
- D** Internal board
- E** Internal lining and finish

Thermal, acoustic, waterproofing and moisture control are specified as separate performance layers within this build-up.

Exact materials, sections and details are confirmed for each project and recorded in the project documentation.

Materials and integrated building services.

Electrical, plumbing and finish decisions are developed together with the wall, floor and roof systems — not added afterwards.

01



Electrical installation

Lighting, sockets, distribution boards and low-voltage needs are configured around the programme.

02



Plumbing

Potable water, wastewater and wet rooms are planned according to building type and occupancy.

03



Doors and windows

Opening sizes, glazing, security and thresholds are coordinated with the structural system.

04



Paint and finishes

Primer, paint, colour and texture selections follow the chosen cladding and interior system.

05



Thermal performance

Layer thicknesses and material types are selected according to climate and occupancy.

06



Standards approach

Calculation and detailing principles are developed within a TS and Eurocode-based framework.

MATERIALS & COMPONENTS

Structure	Galvanized light-gauge steel profiles; steel construction for wide spans
Boards	OSB, fibre-cement, Bordex or similar boards, as specified per project
Insulation	Thermal, acoustic, waterproofing and moisture-control layers
Roof	Covering, framing and waterproofing developed with the architecture
Openings	Frames, glazing, security and threshold details
Finishes	Primer, paint, colour and texture to suit cladding and interior

ONE COORDINATED SPECIFICATION

Wall, floor and roof build-ups, openings and services are specified together, so that routes, penetrations and junctions are resolved in design rather than on site.

Designed around the project, not the catalogue.

Every structure is configured around its ground conditions, climate, occupancy, logistics and regulatory context. Architecture, structure, insulation and services are developed as one coordinated system.

Input 01

Ground conditions

Foundation interface, soil and site levels

Input 02

Climate

Thermal layers, roof form and waterproofing

Input 03

Occupancy

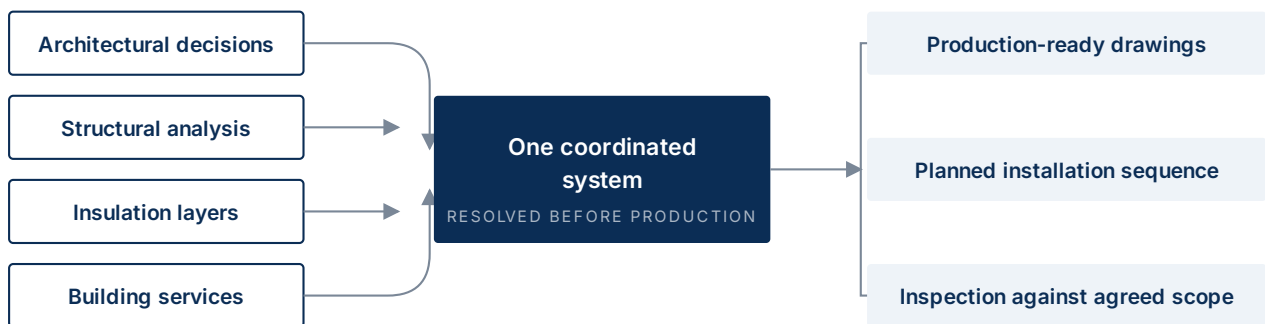
Room programme, services and acoustic expectations

Input 04

Logistics & regulation

Transport, access, installation sequence and the regulatory context

COORDINATION MODEL



STRUCTURAL & SEISMIC ENGINEERING

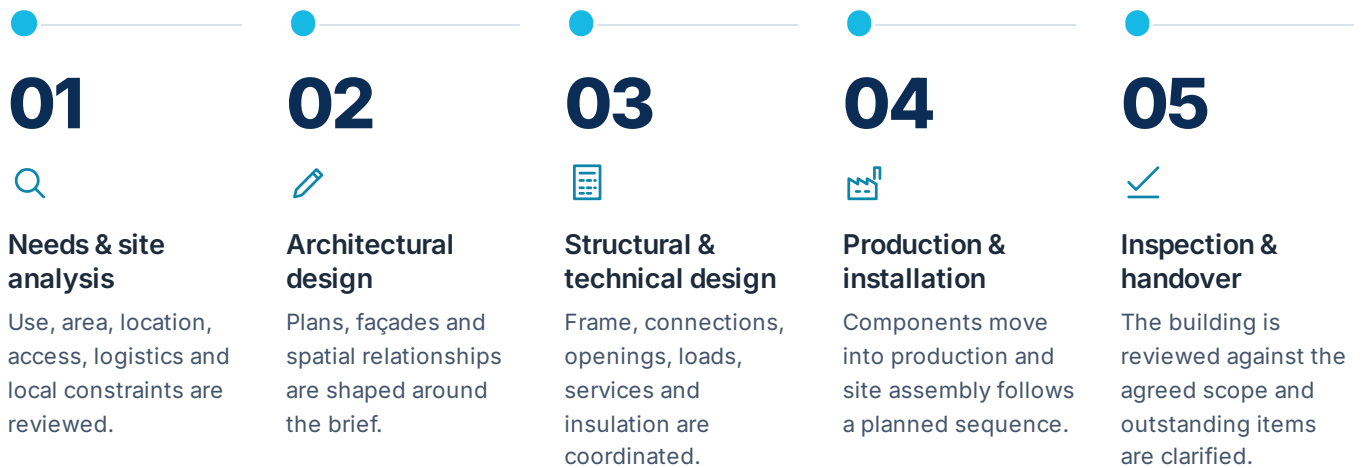
- Structural and seismic analysis based on project conditions
- Lightweight frame configured through project-specific analysis
- Project-specific connections, anchors and bracing
- Steel construction assessed by span and loading for industrial buildings

ENGINEERING LANGUAGE

- Plain-language technical communication with the client
- Calculation and detailing within a TS and Eurocode-based framework
- Exact materials, sections and details confirmed for each project
- Results carried into production drawings and site checks

A five-stage process, one accountable workflow.

Every project moves through a clear sequence, with scope and programme defined according to the building type and site. Each stage produces the inputs for the next.



DEFINE • STAGES 01-02

What is to be built, where, for whom and to what programme — established with the client before any engineering begins.

ENGINEER & BUILD • STAGES 03-04

Structure, envelope and services are calculated and detailed; components are produced and assembled to a planned sequence.

VERIFY • STAGE 05

The completed building is inspected against the agreed scope before handover; outstanding items are listed and clarified.



Starting a project. The process begins with a short brief — building type, location and approximate area are enough to open the conversation. See *Request a Quote* on page 18.

Quality as a workflow, not a slogan.

Material selection, production preparation, installation and handover checks follow one another in sequence. Quality is the result of that sequence being followed.



OUR WORKING PRINCIPLES

- Project-specific needs analysis
- Plain-language technical communication
- Coordinated architectural and structural design
- Controlled production preparation
- Traceable installation stages
- Inspection against the agreed scope

THE QUALITY SEQUENCE

- 1 Material selection**
Profiles, boards, insulation and finishes specified for the project
- 2 Production preparation**
Cutting lists, connections and components prepared under controlled conditions
- 3 Installation**
Site assembly to a planned, traceable sequence
- 4 Handover checks**
Review against the agreed scope; outstanding items clarified

CONTROLLED PRODUCTION

Components are cut and prepared in a controlled environment, with dimensions and connections checked before they reach the site.

TRACEABLE INSTALLATION

Site assembly follows the planned sequence, and the completed building is inspected against the scope agreed at the outset.

Start with a clear brief.

14

A clear first brief helps identify the right structural system, scope and next steps. Share as much of the following as you have — our team will review it and respond with a structured proposal.

PROJECT BRIEF CHECKLIST

- ☐ 01 Building type and intended use
- ☐ 02 Approximate floor area
- ☐ 03 Number of storeys and room programme
- ☐ 04 Project location and site access
- ☐ 05 Ground and climate information, if available
- ☐ 06 Preferred architectural character
- ☐ 07 Target programme and logistics
- ☐ 08 Expected technical and service scope

START A CONVERSATION

TÜRKİYE • MAIN CONTACT

+90 544 793 72 22

INTERNATIONAL • ENGLISH & ARABIC

+90 533 433 90 70

E-MAIL

omurerkan35@gmail.com

WEB

erkanlarprefabrik.com

WHAT HAPPENS NEXT

- **Review.** The brief is assessed against the building systems and open points are clarified.
- **Proposal.** A suitable system, design approach and the information required for engineering are outlined.
- **Project start.** On agreement, the five-stage process begins with needs and site analysis.



— 15 • CONTACT

Let's Build Your Next Project

Contractors, developers, investors, public institutions and project owners are invited to share their requirements with Erkanlar Prefabrik. A building type, a location and an approximate area are enough to begin — we will respond with a clear view of the right system and the next steps.

ADDRESS

Buca Koop Mahallesi, 1412 Sokak No: 1/D
35390 Buca, İzmir, Türkiye

TELEPHONE

+90 544 793 72 22

Türkiye • main contact

+90 533 433 90 70

International • English & Arabic

E-MAIL

omurerkan35@gmail.com

WEB

erkanlarprefabrik.com

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COMPANY

Erkanlar İnşaat Prefabrik Yapı
Sistemleri Ltd. Şti.
Buca Koop Mahallesi, 1412 Sokak No:
1/D
35390 Buca, İzmir, Türkiye

CONTACT

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+90 533 433 90 70 · English & Arabic
omurerkan35@gmail.com

WEB

erkanlarprefabrik.com