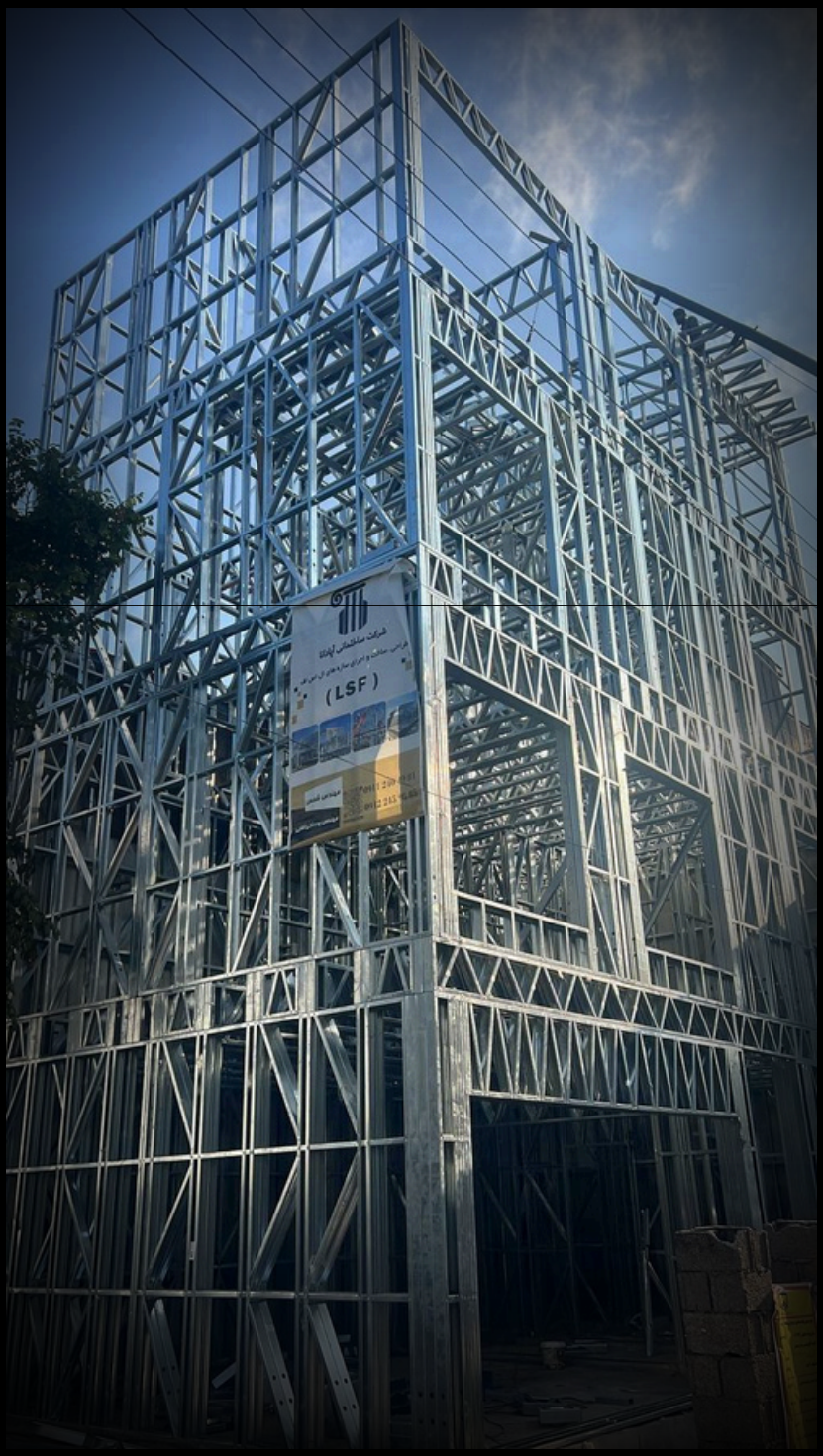
APADANA

LSF TECHNOLOGY

Construction Company

Introduction

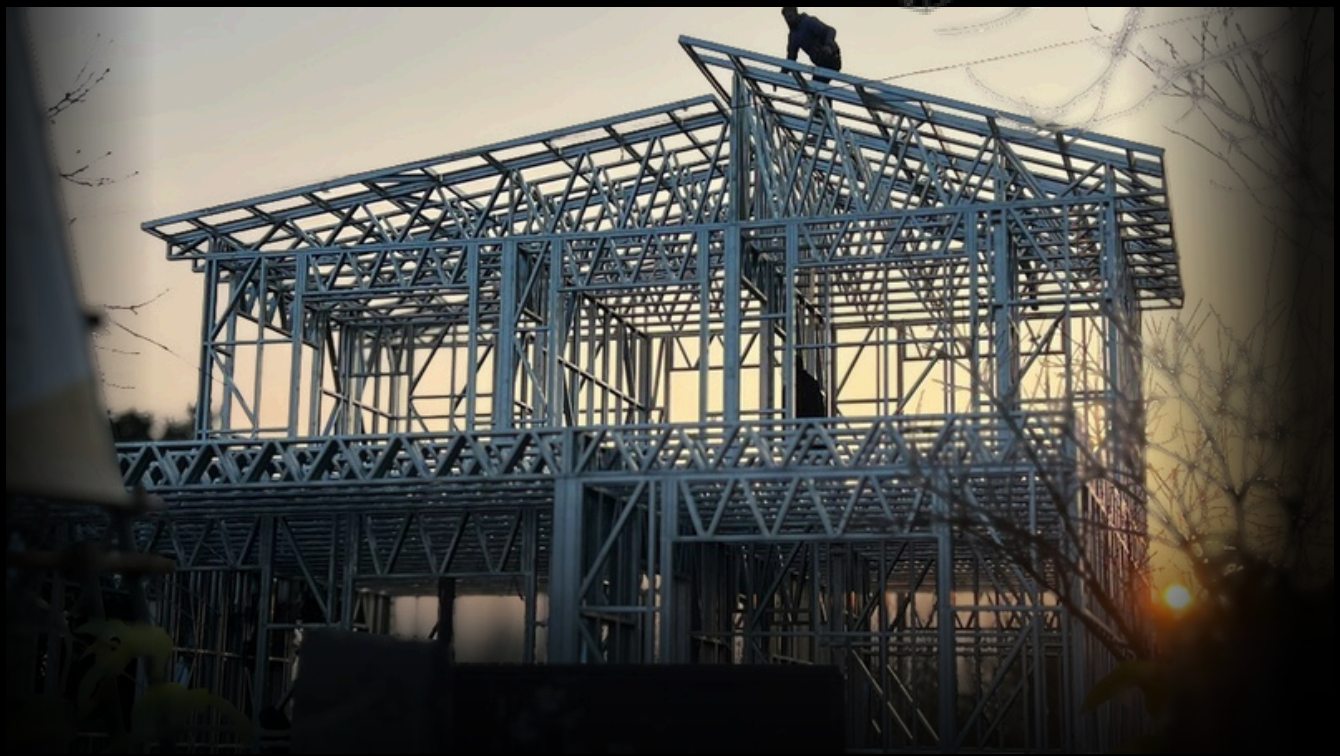
Apadana Construction Company commenced operations in ***2010***, engaging in construction projects across Iran (Mazandaran, Gilan, Azerbaijan, and Tehran provinces). The company aims to advance the development of residential, commercial, industrial, and governmental buildings. With a team of expert designers and engineers, Apadana possesses significant potential to execute large-scale projects domestically and internationally. This technical capability, combined with the founders' risk-taking approach and commitment to localizing industry-specific technologies, positions Apadana as a pioneer in entering new markets and expanding services. Currently, the company focuses on modern ***Light Steel Frame (LSF)*** structures and operates its own galvanized ***LSF profile*** production facility, ensuring end-to-end quality control from manufacturing to execution.



Company Objectives

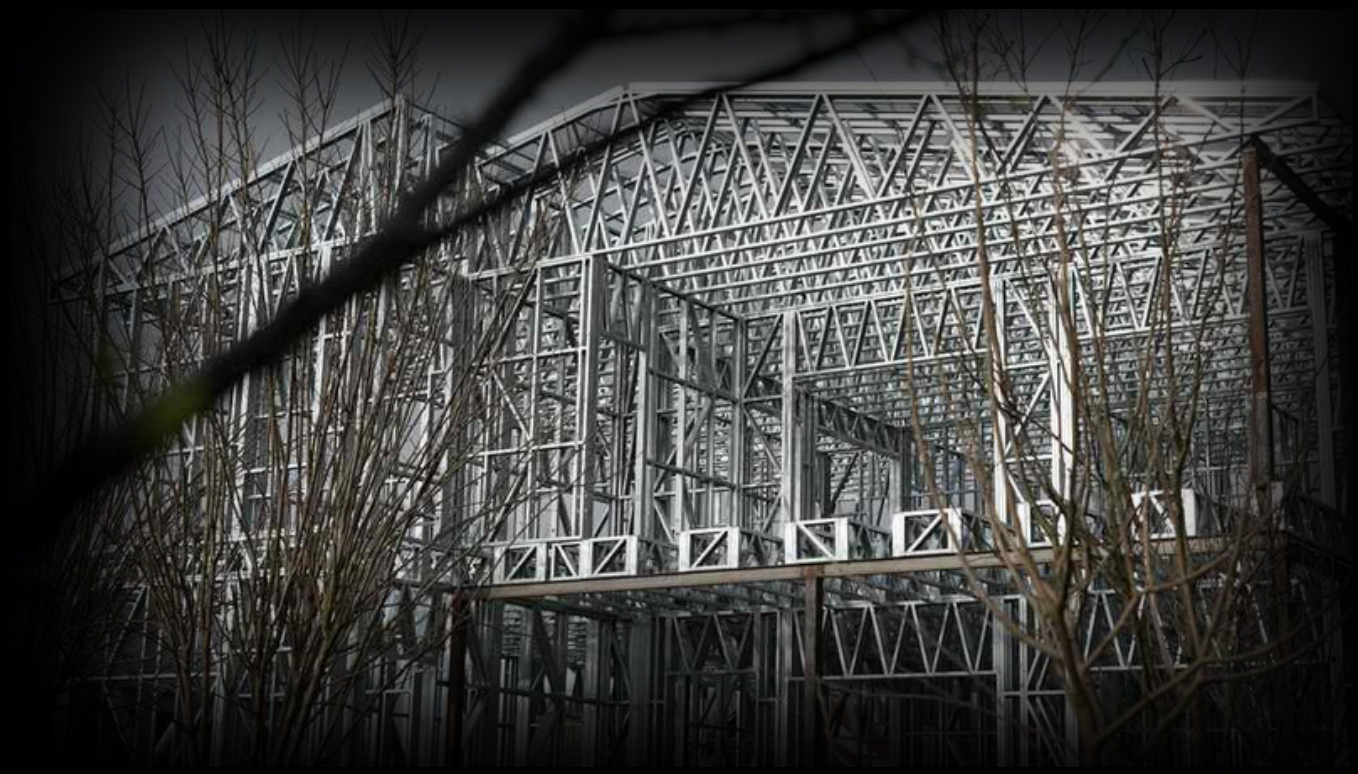
Apadana maintains a long-term vision for modern construction, offering production, design, and construction services through a highly skilled team. Key objectives include:

- **Implementing *LSF structures* to reduce building weight and enhance quality.**
- **Reducing project timelines to drive economic efficiency.**
- **Leveraging *15+* years of engineering expertise and global architectural innovations to advance the industry.**



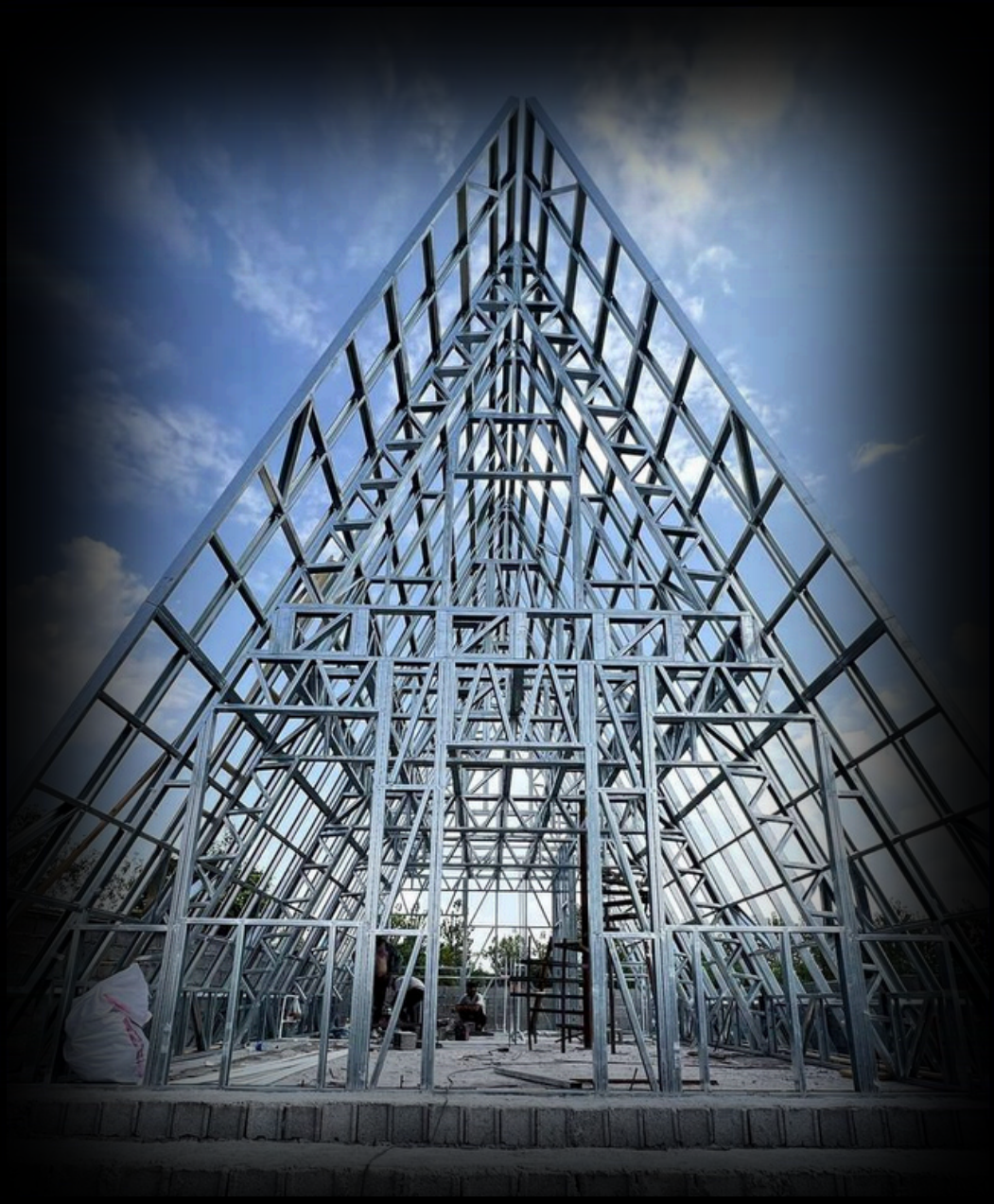
Services

- Production of ***LSF Structures*** Light Steel Frames using premium, standardized materials.
- Engineering Design & Calculations ***LSF-based structural design*** compliant with global standards (New Zealand methodology).
- ***LSF Project*** Execution Managed by experienced technical teams.
- Construction of:
  - ✓ Custom villas
  - ✓ Recreational/residential towns
  - ✓ Industrial buildings
  - ✓ Governmental facilities



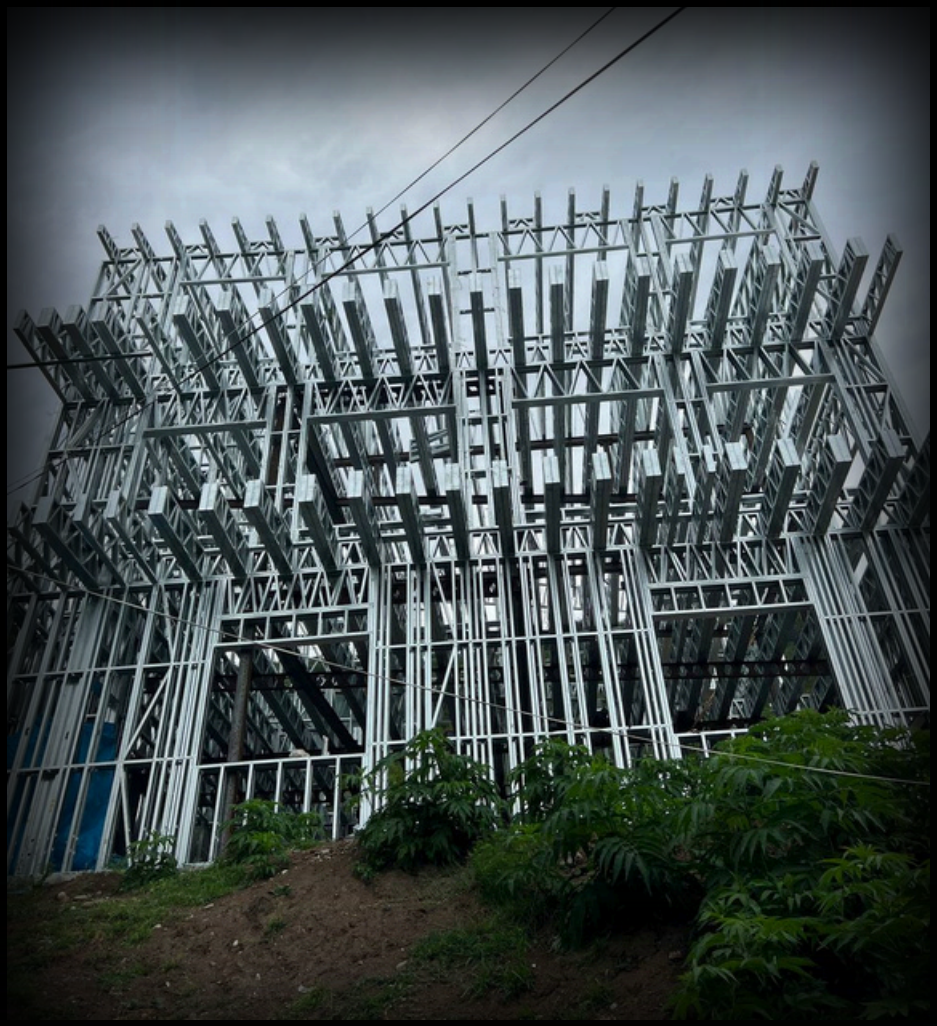
Apadana's Competitive Advantages

- **European machinery for *LSF production* with standard materials.**
- **Cutting-edge design aligned with global methodologies.**
- **Professional installation teams.**
- **Significant reduction in installation time, accelerating overall project completion.**
- **Fast-track construction execution.**
- **Earthquake-resistant, energy-optimized buildings.**



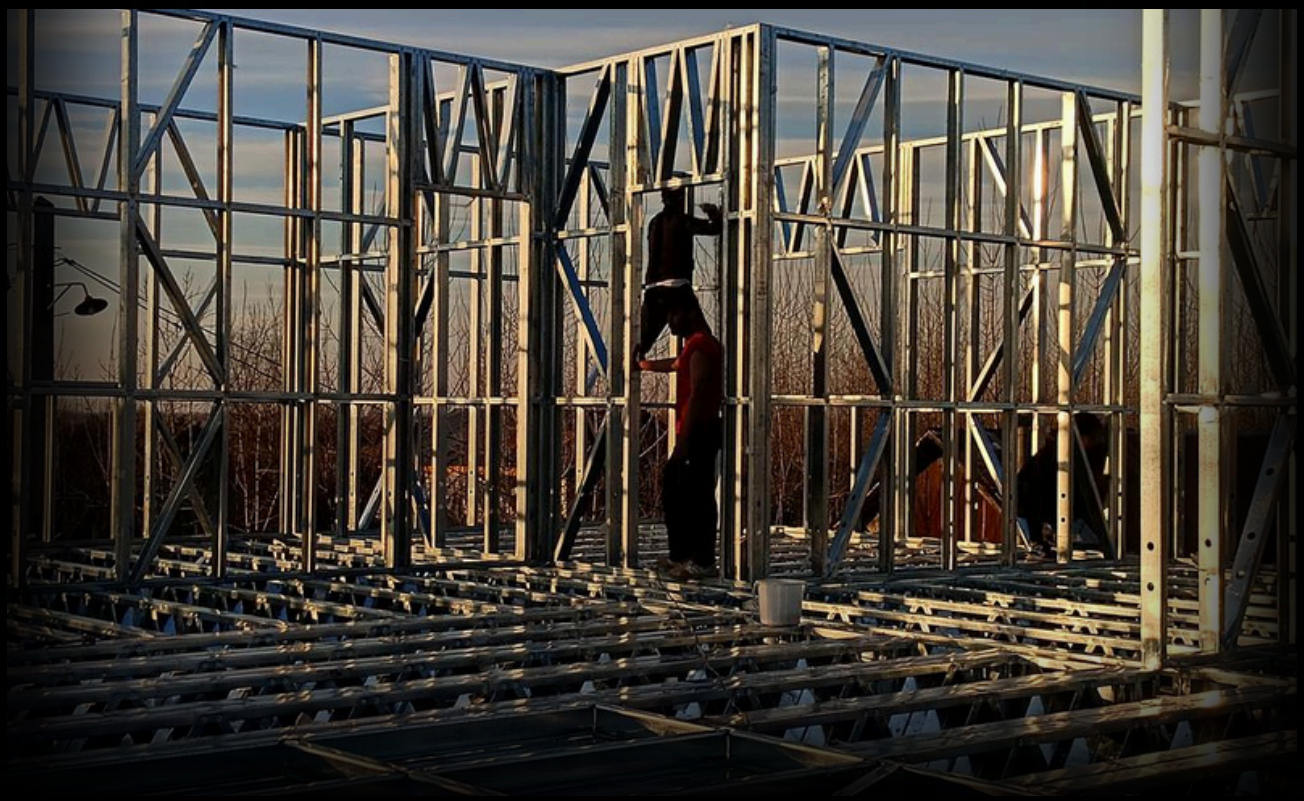
Benefits of LSF Construction

- Lightweight Steel Frame *(LSF)* refers to galvanized (hot-dip) cold -formed steel frames, offering:
- *30%* lower construction costs due to lightweight structures.
- Applicable for buildings up to 5 floors.
- High thermal insulation (*60%* energy savings).
- Resistance to fire, earthquakes, and moisture.
- Demountable/re-assembled structures (with lightweight cladding).
- Easy maintenance of structures/MEP systems.



Benefits of LSF Construction

- *80-120* year lifespan.
- Architectural space optimization.
- Rapid installation (*50%* faster project completion).
- Simplified electrical/mechanical system implementation.
- Design flexibility for facades (with compliant calculations).
- Eco-friendly, sustainable construction.
- Global certifications + local technical approvals.
- Near-zero structural defects.
- High-safety load calculations (wind, snow, dead loads) using FrameCAD Detailer, FrameCAD Structure, and *SAP2000*.



Our Workflow Process

1. Initial Consultation & Contract Execution

- Preliminary project discussion, conceptual proposal, and client-approved agreements
- Formal contract finalization

2. Unrestricted Architectural Design

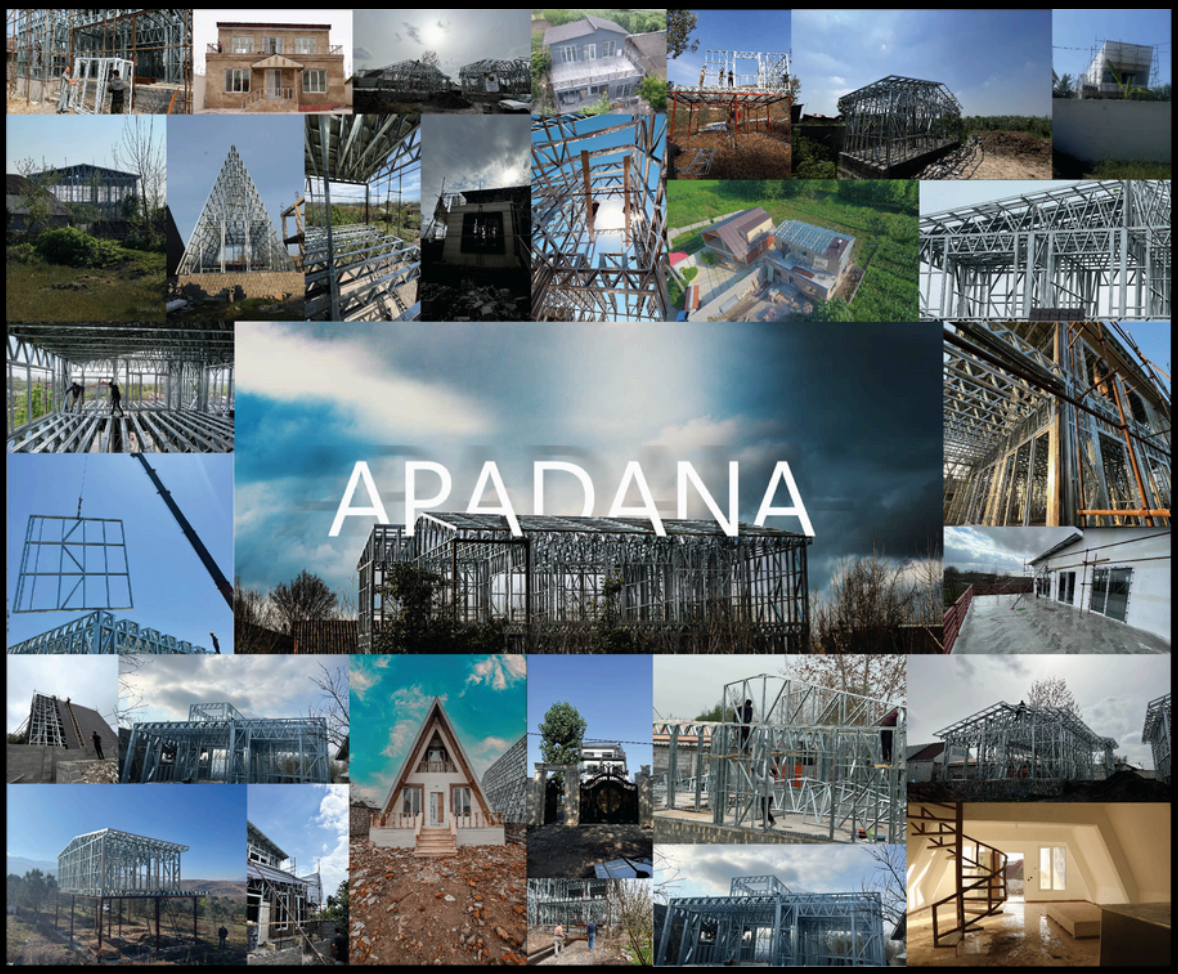
- Creative architectural development with zero constraints
- Final design subject to client approval

3. Regulatory Compliance & Permitting

- Securing all required construction permits
- Preparation of permit documentation:
- Architectural blueprints
- Structural engineering schematics
- Mechanical systems plans

4. *3D* Visualization & Client Review

- Immersive ***3D*** modeling for structural, façade, and interior design verification
- Enhanced construction understanding through virtual walkthroughs



Our Workflow Process

5. Precision Structural Engineering

- FrameCAD-engineered structures (latest software version)
- Micrometer-level design accuracy (***±0.01***mm)
- Full compliance with:
- International building codes (IBC)
- Local regulatory standards
- Performance advantages:
- ***60%***lighter than traditional steel frames
- ***120***-year structural service life
- Superior seismic/wind resistance

6. Advanced Manufacturing

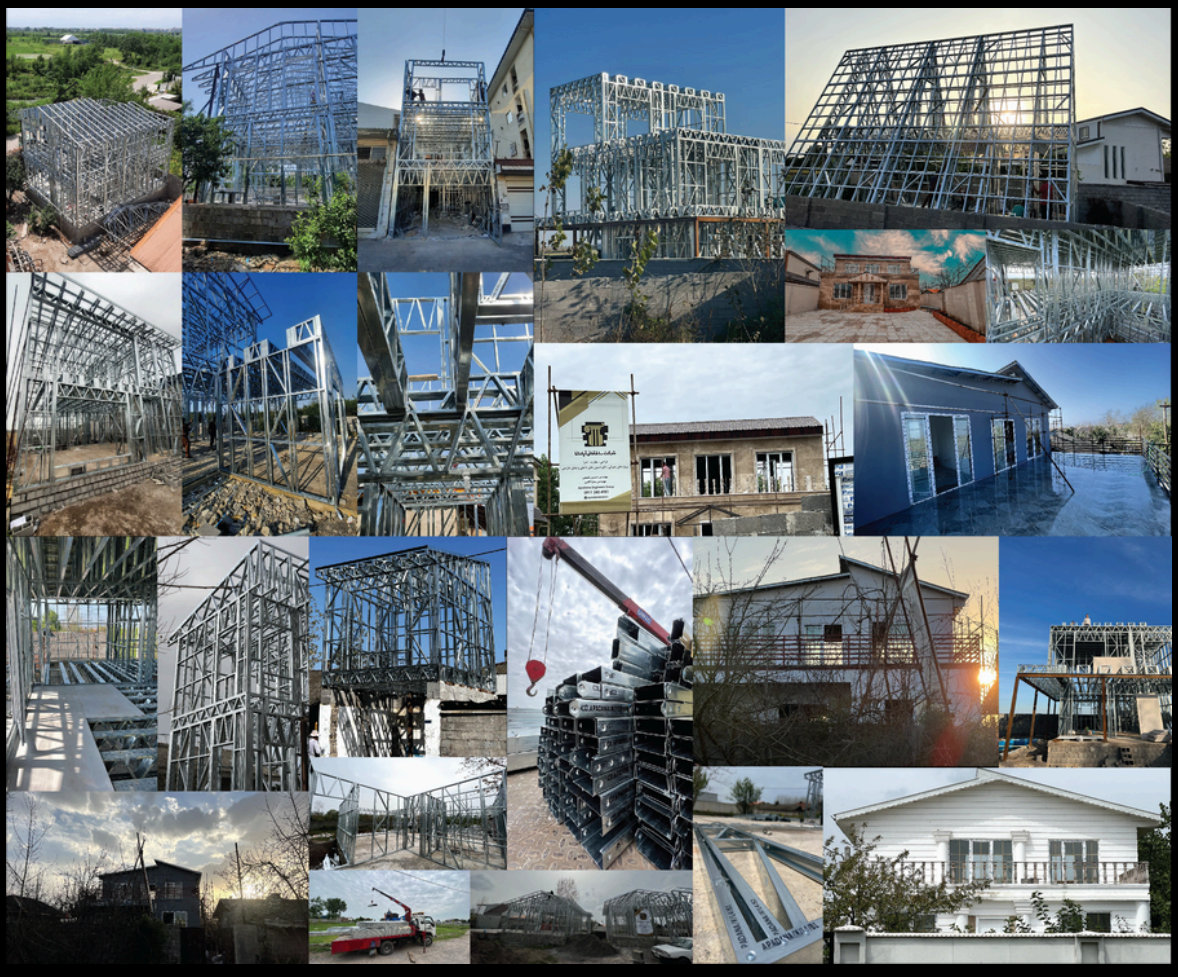
- Production on original FrameCAD machinery (***±0.3***mm tolerance)
- Material specifications:
- Hot-dip galvanized steel (***180-200***µm zinc coating)
- Sourced from premier mills (ASTM ***A653/A653M*** compliant)

7. Quality Integration

- Triad excellence guarantee:
- Precision engineering
- Premium galvanized substrates
- Robotic manufacturing
- Result: Optimal structural integrity with lifelong corrosion resistance

8. Turnkey Project Delivery

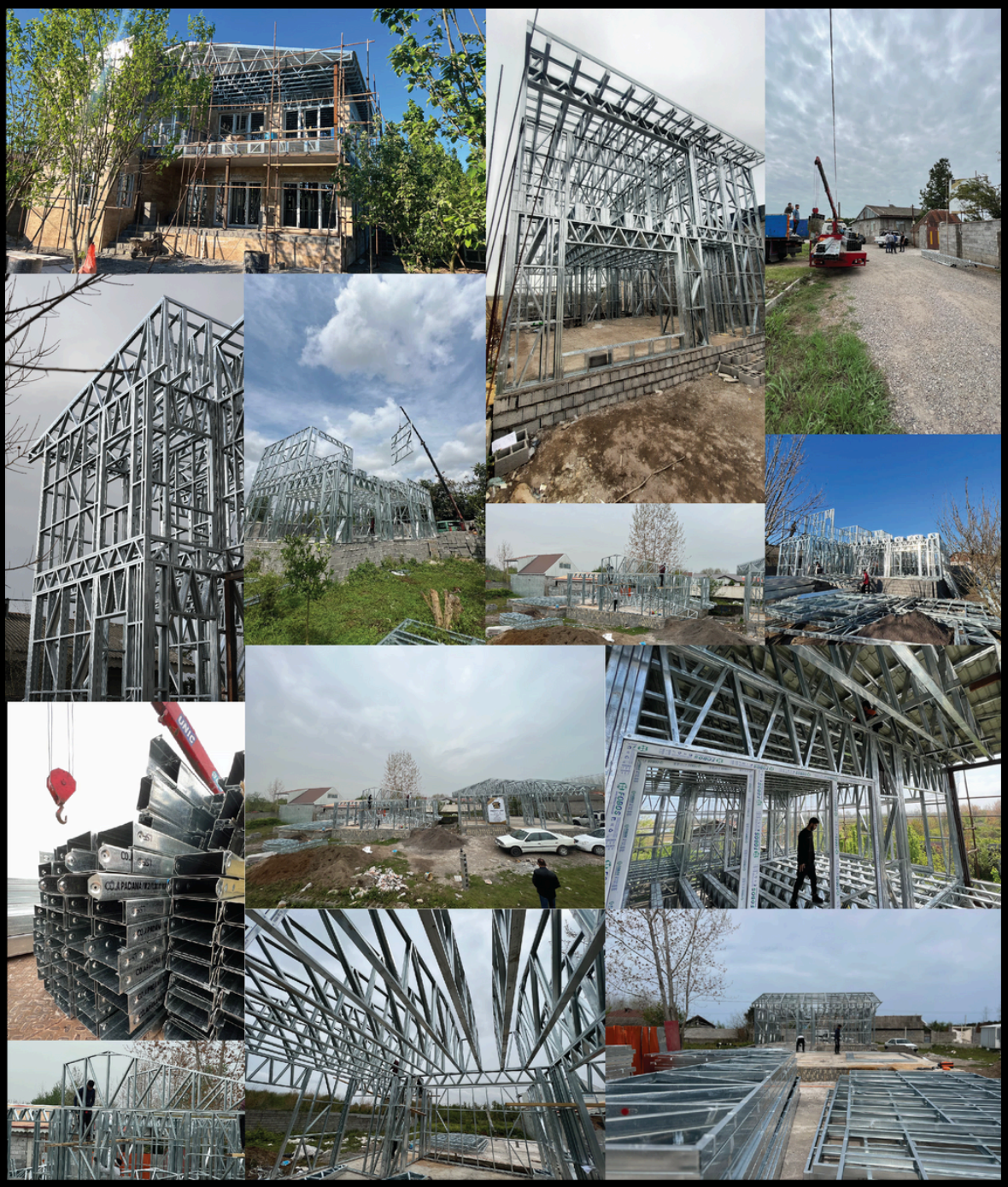
- Certified civil engineering installation
- Accelerated construction cycle (***50%*** faster than conventional methods)
- Ready-to-occupy building handover



Core Competencies of Apadana Construction Company

✓ Monthly production capacity: ***12*** tons of ***9*** cm-wide profiles and 20 tons of ***15*** cm-wide profiles, equivalent to over ***24,000*** square meters of building construction per month

✓ Proven Design Legacy: ***15+*** years of structural and architectural design expertise across ***3,200+*** buildings.

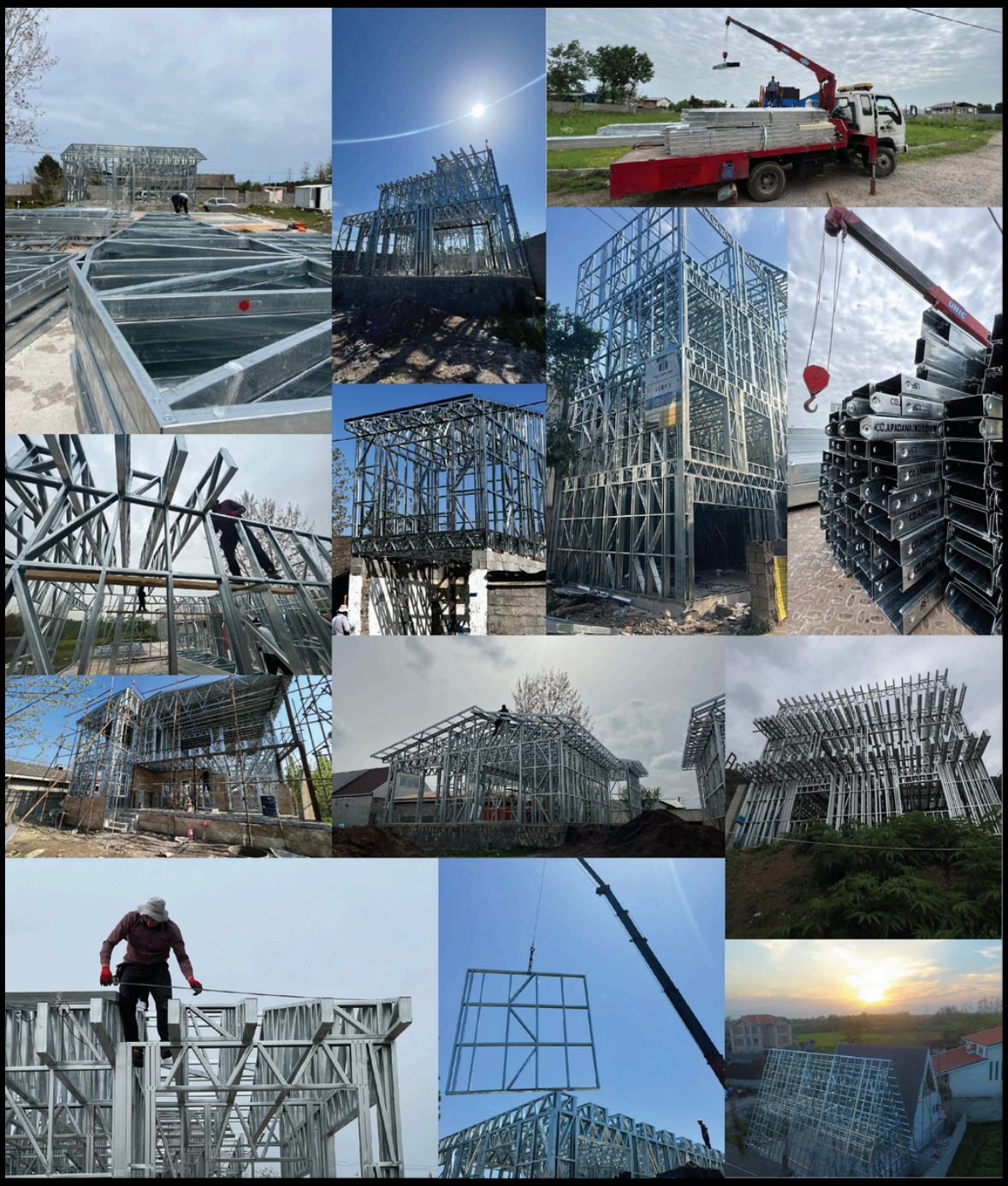


Core Competencies of Apadana Construction Company

✓ End-to-End Project Delivery: Successful execution of ***350+*** turnkey construction projects from inception to completion.

✓ Integrated Specialist Teams: Deployment of seasoned professionals throughout all project phases:

- Design- Structural & MEP installation
- Construction



Earthquake-resistant

Moisture-resistant

Villas

Fire-resistant

SIGNIFICANT REDUCTION IN INSTALLATION TIME

Industrial buildings

30% lower construction costs

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up to 5 floors

80-120 year lifespan

Offices

50% faster project completion

Design flexibility

Global certifications

25–38 kg/m²

European machinery

Residential complexes

60% energy savings

Hotels

Schools

Restaurants