



WOODEN PANEL HOUSES WHERE OTHERS CANNOT BUILD

High-performance timber panel buildings for alpine,
remote and complex sites

SIA "AKORDS U"



MARKET CHALLENGE



STANDARD WOODEN CONSTRUCTION SYSTEMS OFTEN REQUIRE HEAVY TRANSPORT, LARGE CRANES AND EASY SITE ACCESS IN MOUNTAIN AREAS, PROTECTED LANDSCAPES AND REMOTE LOCATIONS, BUILDING IS FREQUENTLY IMPOSSIBLE.

THE AKDORSU SOLUTION

AKORDSU DEVELOPED A PATENTED WOODEN PANEL CONSTRUCTION SYSTEM DESIGNED SPECIFICALLY FOR DIFFICULT ACCESS AND ALPINE ENVIRONMENTS.

THE SYSTEM ALLOWS FLEXIBLE TRANSPORT AND ASSEMBLY WITH MINIMAL EQUIPMENT, ADAPTING TO COMPLEX SITES AND CHALLENGING CONDITIONS.

PANELS ARE COMPACT, LIGHTWEIGHT AND CAN BE TRANSPORTED AND ASSEMBLED WITH MINIMAL EQUIPMENT.



PATENTED SYSTEM

PATENTED CONSTRUCTION SYSTEM –
LVP2024000086 DEVELOPED BY A
RESEARCHER FROM RIGA TECHNICAL
UNIVERSITY.

- NOT INDUSTRIAL.
- NOT MASS-PRODUCED.
- PRECISELY ENGINEERED
CRAFTSMANSHIP.





WHERE WE BUILD

AkordsU builds wooden houses in locations where standard construction systems cannot operate:• mountain and alpine areas• remote or off-road sites• forest and rural locations• areas with transport limitations





CLIMATE PERFORMANCE

AkordsU buildings are designed for Northern European climates. • Thermal transmittance (walls and roof): $U = 0.13 \text{ W/m}^2\text{K}$ • Tested for outdoor temperatures down to $-21 \text{ }^\circ\text{C}$ • High energy efficiency and indoor comfort





NATURAL MATERIALS & SUSTAINABILITY

AkordsU uses timber-based construction systems with high thermal insulation, ensuring low energy demand and sustainable performance over time. Natural materials and balanced architectural design allow buildings to integrate harmoniously into the landscape.



AUTHENTIC TRADITION

FOUNDED IN 1999, AKORDSU BUILDS ON DECADES OF REAL EXPERIENCE:• TIMBER PRODUCTION• RESTORATION OF HISTORICAL WINDOWS AND DOORS• CONSTRUCTION SUPERVISION• RURAL TOURISM AND EXPERIMENTAL BUILDINGS. TRADITION IS NOT A STORY. IT IS OUR DAILY WORK.

THE BUILDING'S ENCLOSING STRUCTURES ARE DESIGNED AND CONSTRUCTED FOR THE NORTHERN EUROPEAN CLIMATE, WITH A CALCULATED THERMAL TRANSMITTANCE (WALLS, ROOF) OF $U = 0.13 \text{ (W/M}^2\cdot\text{K)}$ AT AN OUTDOOR AIR TEMPERATURE OF -20°C . AKORDS U IS A CERTIFIED SAWN TIMBER MANUFACTURER.



WHY AKDORSU

- Precise factory production with controlled quality
- Adapted for alpine and northern climates
- Energy-efficient and sustainable timber construction
- Natural materials with landscape-friendly aesthetics



PROCESS & TIMING

CLEAR AND RELIABLE CONSTRUCTION
PROCESS:

- DESIGN, PRODUCTION AND PREPARATION: FROM 3 MONTHS
- DELIVERY TO SITE: APPROX. 1 WEEK
- ON-SITE ASSEMBLY: FROM 1 MONTH



COST INDICATION

- INDICATIVE CONSTRUCTION COST:
STARTING FROM APPROX. €1,900 / M²
- FINAL COST DEPENDS ON SITE
CONDITIONS, DESIGN COMPLEXITY AND
LEVEL OF CUSTOMIZATION.



WHO WE WORK WITH

- PRIVATE CLIENTS: HIGH-QUALITY WOODEN HOMES IN COMPLEX OR REMOTE LOCATIONS
- ARCHITECTS & DESIGNERS : FLEXIBLE SYSTEM FOR CHALLENGING SITES AND COMPLEX PROJECTS
- INVESTORS & TOURISM DEVELOPERS
RELIABLE TIMING, SIMPLIFIED LOGISTICS AND CONSTRUCTION WHERE OTHERS CANNOT BUILD



QUALITY & COMPLIANCE

AKORDSU OPERATES WITH CERTIFIED PRODUCTION PROCESS CONTROL AND REGISTERED CONSTRUCTION ACTIVITIES, ENSURING CONSISTENT QUALITY, TRACEABILITY AND REGULATORY COMPLIANCE.

- CERTIFIED PRODUCTION PROCESS CONTROL: NO. 1325-CPR-3641
- REGISTERED CONSTRUCTION COMPANY: NO. 4150-R



COOPERATION & CONTACTS

AKORDSU IS OPEN TO COOPERATION
WITH:

- ARCHITECTS
- LOCAL CONSTRUCTION PARTNERS
- SALES AGENTS
- DEVELOPERS AND INVESTORS

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