

ARCHITECTURAL TECHNOLOGY



**PREFABRICATED FRAME TENT MODULAR
STRUCTURES**

OVERLAY – INTEGRAL TEMPORARY INFRASTRUCTURE





buildings

- prefabricated
- frame tent
- modular
- aluminum profiles
- aesthetic
- convenient
- durable

engineering infrastructure

- all engineering systems
- temporary or permanent
- fast assembly and dismantling

RÖDER is a global German company represented in 35 countries.

RÖDER is a German quality.

RÖDER has been operating in Russia since 2006. We've completed more than 2,000 projects of various scales, from temporary solutions for the MAKS aerospace show, Sochi 2014 Olympic Games, 2019 Universiade (FISU) in Krasnoyarsk to small private projects.

Wide industrial use of our solutions: temporary infrastructure (overlay) for professional sport, forums and exhibitions, ice arenas, aircraft hangars, airport terminals, storages, markets, shops, hospitals, workshops.

We strive to be your best business partner.



SYSTEMATICAL APPROACH

01| Engineering

RÖDER make a complex design cycle from architecture to engineering systems. We conform customer desires with 3D sketches and coordinate project documentation with supervisory authorities. RÖDER non-capital foundationless structures do not need a building permit and project expertise.

02| Customization

Prefabricated buildings easily adapt to customer needs. Wall fencing, roofing, base and floor, gates and doors, all engineering systems - a wide selection of options gives an individual solution based on a standard design. RÖDERs buildings have extensive decoration and branding options.

03| Production

RÖDER is a full production cycle company. Quality and environmental management of RÖDER is certified under ISO 9001: 2015 and 14001: 2015. Aluminum profiles are made in Germany.

04| Delivery

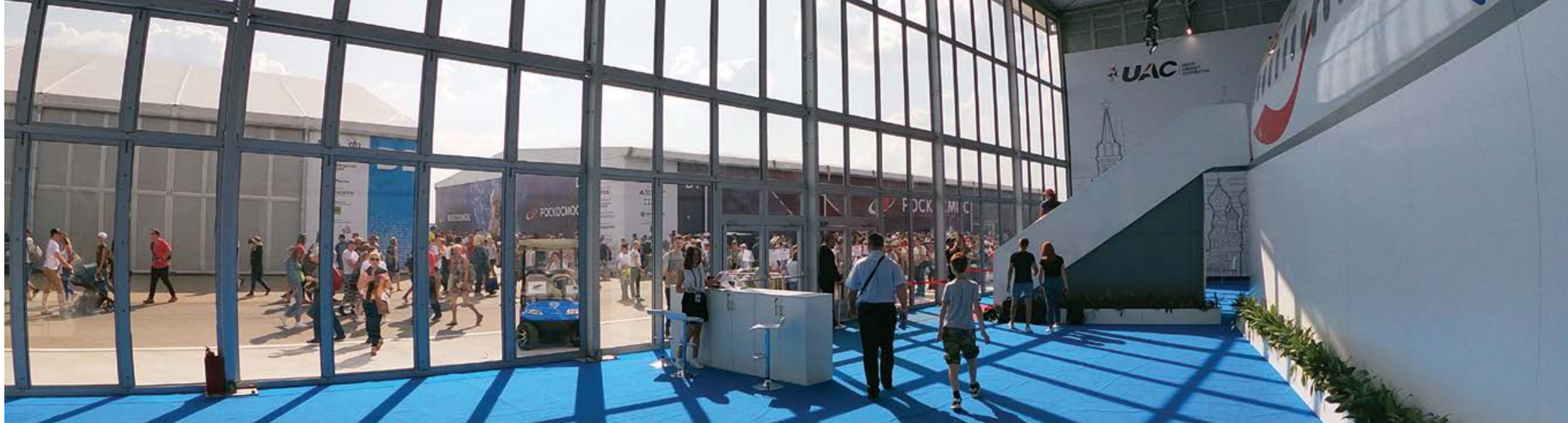
Aluminum structures weigh is three times less than steel, so logistics is cheaper and easier. Building elements can be transported by eurotruck or container. We suggest simplified delivery of lightweight structures to hard-to-reach areas.

05| Assembling

Tent is delivered in a pre-assembled condition. Installation time is reduced to a minimum. We use standard bolted connections. Risks of incompatibility is excluded. No wastes. The labor protection system complies with the OHSAS 18001: 2007 standard. Client's expenses for labor and equipment are optimal.

06| Maintenance and operation

Aluminum does not rust, so operating costs are insignificant. We offer long-term building's rental with operation services. Our largest Russian warehouse allows replacing any part promptly. More than 30 of our transborder offices are in touch with you, wherever you are.



WHAT WE CAN DO

1 day

minimum
installation time

130 km/h

maximum wind load

300 kg/m²

maximum snow load

±50 °C

operating
temperatures

60 m

maximum width

10 m

maximum wall height

1000 m²

of structural elements
in standard eurotruck

95 %

of elements
are reusable

<0.03

coefficient of thermal
deformation of the frame

SOLUTION

- Exhibition pavilion
- Company office
- Shopping center
- Showroom
- Auto showroom
- Restaurant, cafe
- VIP lounge

B-TENTS

- Exhibition pavilion
- Conference hall
- Trade pavilion, fair
- Large canteen
- Gym
- Shelter for construction
- Aircraft hangar
- Warehouse, industrial premises

H-LINE

- Ice arena
- Production room
- Market
- Warehouse
- Administrative building
- Hospital
- Aviation terminal
- Cargo terminal



APPLICATION

PRODUCTION
BUSINESS



- Warehouses
- Industrial buildings
- Restaurants, cafes, food courts, canteens
- Shopping centers, shops, fairs
- Auto showroom, service centers
- Shelters for construction work
- Office buildings

SPORT



- Temporary infrastructure for sports
- Ice arenas, ice rinks, curling
- Tennis courts
- Pools
- Sports and fitness facilities
- Buildings for indoor soccer
- Security infrastructure

EVENTS
ACTIVITY



- Temporary event infrastructure
- Security infrastructure
- Shows, fashion shows, gala dinners
- VIP areas, lounges
- POS (points of sale)
- Exhibitions, forums
- Hotels, welcome zones
- Catering, canteens

MEDICINE, ARMY
AND EMERGENCIES



- Prefabricated medical centers
- Hospital infrastructure
- Disinfection and observation points
- Facilities for temporary residence
- Multifunctional prefabricated complexes
- Refugee camps

AVIATION
LOGISTICS



- Aircraft hangars
- Airport terminals
- Shelters for repairs and maintenance
- Logistic terminals

MOST REQUIRED
DESIGN TYPES



Light P-TENTS

Can be used for private parties, corporate events or for big city festivals, restaurants, cafes and stadiums’ safety infrastructure. Fast installation, light weight and modularity allow P-TENTS to solve many problems. Seasonal assembling.



Functional H-LINE

Can be used as terminals, shops, markets, industrial and warehouse areas, hospitals and office buildings. The length of the construction is not limited. Various fences (sandwich panels, tarpaulin, glass panels) and modern engineering systems. High aesthetics, comfortable microclimate. Year-round assembling.



Aesthetic W-TENTS

A lot of natural light and decoration options. A height strength level that allows making professional lighting, sound or presentation equipment. The grace of the building allows you holding an event on a superior level. Seasonal assembling.



Premium SOLUTION

A true triumph of style in temporary infrastructure. Ample architectural opportunities. Designs combine manufacturability and aesthetics, demonstrate the high level of your event. Beauty, lightness and the possibility of building multi-level pavilions with stairs, terraces and balconies. Ability to decorate with ALEA | ATTICA systems. Year-round assembling.



Spacious B-TENTS

Truly roomy mobile buildings for large projects. These constructions suggest large open spaces and wide spans that allows using them as exhibition halls and for sport facilities. A wide range of sizes and fast assembly make B-TENTS an excellent choice even for complicated tasks. Year-round assembling.

Main profile, mm	81 - 94	252 - 355	130	285 - 355	220 - 500
Area, m²	9+	50+	50+	100+	120+
Span width, m	3 - 10	10 - 40	6 - 10	10 - 30	12 - 60
Wall height, m	2.29 - 3.00	4.20 - 8.20	3.00 - 4.00	4.00 - 10.00	2.40 - 9.00
Height in the ridge, m	2.84 - 4.81	5.84 - 14.70	4.19 - 5.82	4.48 - 11.81	4.60 - 17.80

RÖDER TECHNICAL SOLUTIONS



Thermo-roof

Two-layer PVC roof with automatic air pumping. Alleviation of the general weight of a construction due to a light roof. Active demolition of a snow load. Effective climate control.



Baseless technologies

RÖDER structures can be assembled on any surface without a foundation. Anchors technology make mounting process fast and provides height level of wind resistance.



Bolted connection

Easy assemble on the principle of "technological constructor" of the parts of the building. No welding: all structural parts are reliably connected with bolts.



Keder channel

A special channel of the aluminum profile, that accelerates assembling/dismantling processes and ensures their reliable and smooth tension.



Wall fencing

It is possible to combine different wall fences in one construction. It can be tents, sandwich panels, aluminum and glass facades, plastic panels. It is possible to decorate construction with wood or plywood in eco-style.



Stage lights

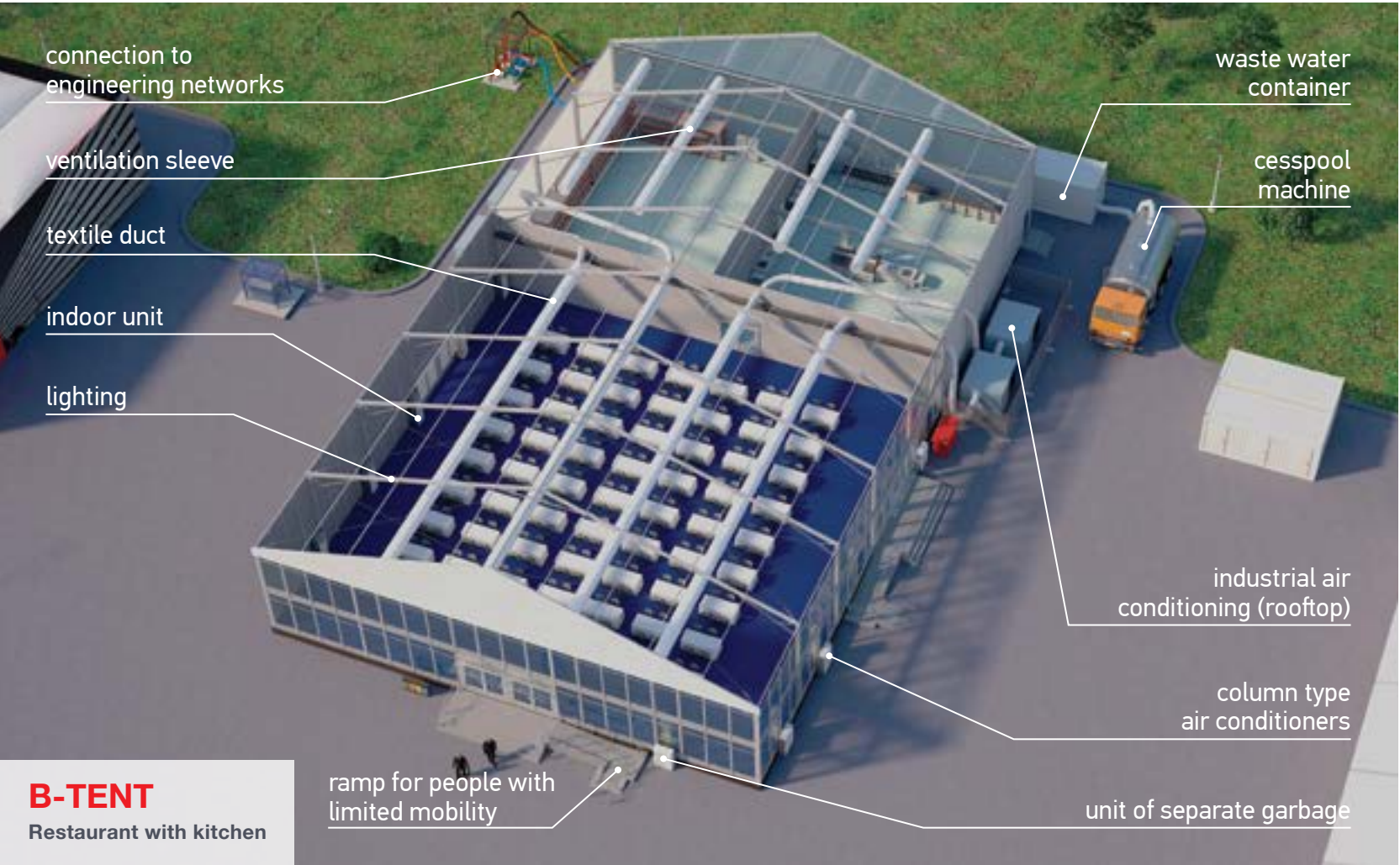
The RÖDER profiles capacity allows placing light equipment weighing 250 kg or 20 kg per linear meter of frame. In some cases, the payload can be increased to 800 kg.



Exterior decoration systems

RÖDER premium line of structures equipped with ALEA | ATTIKA decoration systems. Surfaces of tents and sandwich panels can be branded and decorated in various ways. It is easy to combine RÖDER constructions with exterior glass and aluminum facades.

ENGINEERING EQUIPMENT



Power supply
Electric lighting
Electrical equipment
Grounding and lightning protection
Autonomous diesel generator units



Ventilation and climate
Flexible ducts
Heat guns
Electric heating
Conditioning



Water supply
Water pipes
Water disposal
Sewerage
WC modules
Showers



Communication networks
Cable networks
Telephony
Internet
Wi-Fi



Security
Video monitoring
Fire alarm
Fire extinguishing systems
ACS

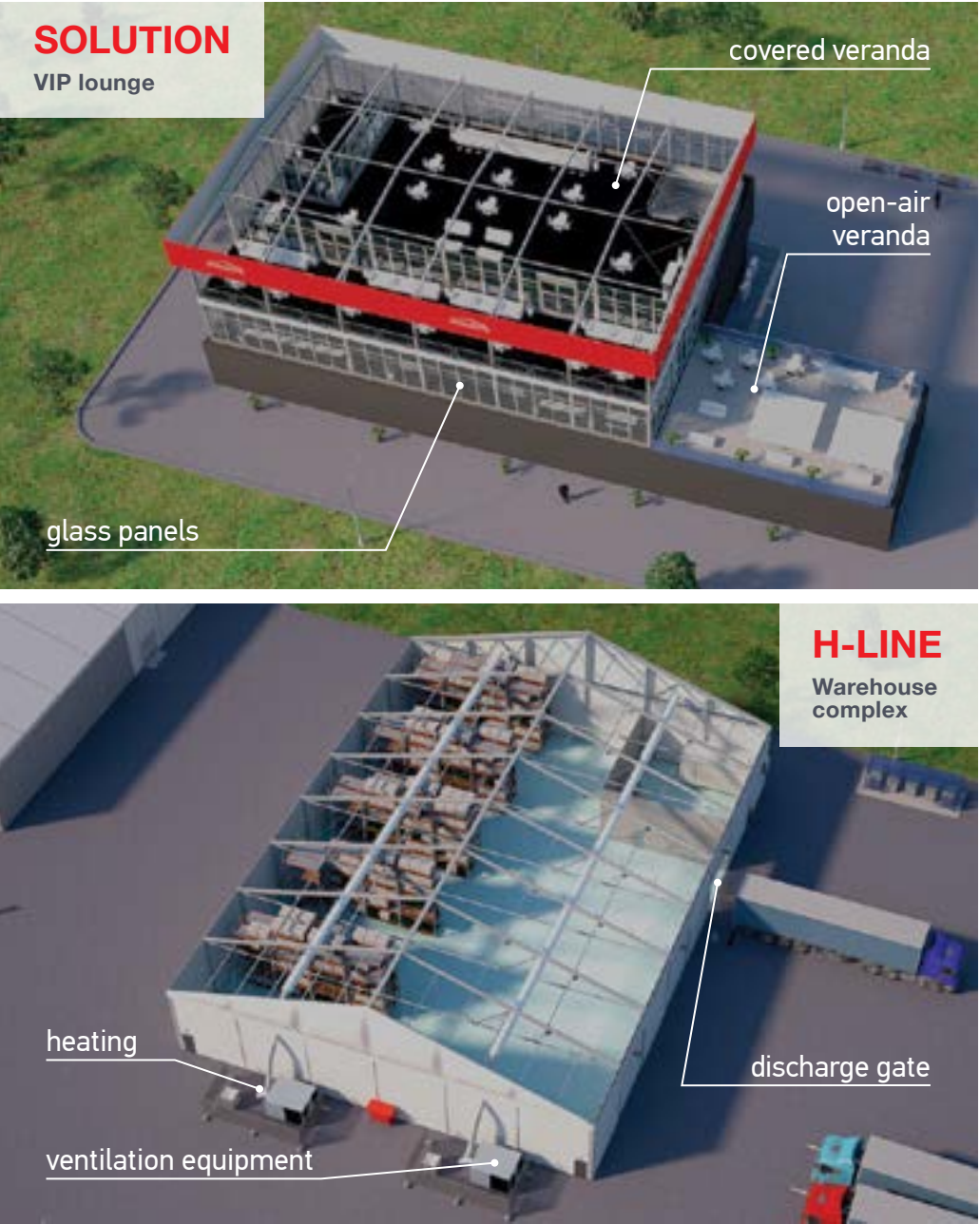


Decoration
Internal and external
Black broadcasting room
Rooms and interior partitions
Furniture & Accessories



Additional options
Stage light
Sound equipment
Stands, stages and podiums
Culinary workshops and kitchens

ENGINEERING EQUIPMENT



12 RÖDER ADVANTAGES

01| Quick assembling

Assembly from 1 day for simple and 2-4 weeks for complicated solutions. Baseless constructions save assembling time, making the zero-cycle unnecessary.

03| Lightweight

The weight of aluminum is 3 times less than steel. That is why assembling, transportation and logistics costs are reduced.

05| No corrosion

Aluminum does not rust from air, precipitation, reagents or CO² emissions. Therefore, your costs of maintaining and restoring the structure are optimal.

02| Costs

The cost of tent structures is 3-5 times less than the cost of capital buildings. Assembling time is 3-5 times less, that allows putting the object into operation much faster. Long-term rental of frame tent with a full package of services is more efficient for business than capital construction.

04| Reusability

Designs serve more than 30 years; they do not damage after regular assembly and disassembly cycles. More than 95% of construction materials could be transferred and reused for any other purpose.

06| Simple logistics

All structural elements can be transported by eurotrack or container and delivered to destination including hard-to-reach areas.

07| Architectural variability

A wide variety of facade solutions. It is easy to combine constructions with each other and with capital buildings. It is possible to transform, expand and combine various constructions.

08| Stability and durability

Useful life of aluminum supporting structures reaches 50 years. Awning PVC cloth perfectly withstands snow pressure, high air temperatures, wind loads, rain or intense UV radiation. It stands temperatures from -50°C to + 50°C.

09| Excellent microclimate

Thermo-roofing, sandwich panels and a set of climate control equipment make comfortable conditions inside and improves functionality of the capital structure.

10| Baseless

Baseless structures can be assembled on almost any surface without any foundation. This leads to savings on the zero cycle. Launch time is decreased by 3-4 times in comparison with capital construction due to no need for any permits, examinations or acts.

11| Widespread usage

In frame tent structures, you can implement any business building. Moreover, it can be used from a canopy to an event, an exhibition pavilion, up to the modern ice arena or temporary residence. A large selection of additional options allows you to create a well-customized solution.

12| Eco friendly

Simple assembling without welding or construction waste. All materials are certified and safe for health. Aluminum meets most of "green standards".

THERMAL ROOF

The two-layer membrane roof structure with the space between the layers of the tent filled with air, improves the heat-insulating properties of the entire structure and increases the energy efficiency of the building.

The air discharge and maintenance systems are automatic. It helps to reduce maintenance costs.

The RÖDER thermo-roof does not require snow and ice clearing due to periodic air pumping and special roof technology. In addition, a two-layer roof reduces noise from rain and prevents condensate creation.



ALUMINUM PROFILE



Main elements of RÖDER structures are made of aluminum. Aluminum does not rust; therefore, operating costs are insignificant.

Aluminum is a light metal. It is in 3 times lighter than steel with equal volume and size. Due to the low weight of building frames, prices for foundations, delivery and assembly are competitive.

BASELESS TECHNOLOGIES



RÖDER solutions are fastened with anchors that do not require a foundation. The unique “heavy floor” technology allows large buildings to be installed without damaging the material. It is possible to assembly a frame tent on any surface.

500 kg/m²
maximum load



QUICK ASSEMBLING NON-CAPITAL

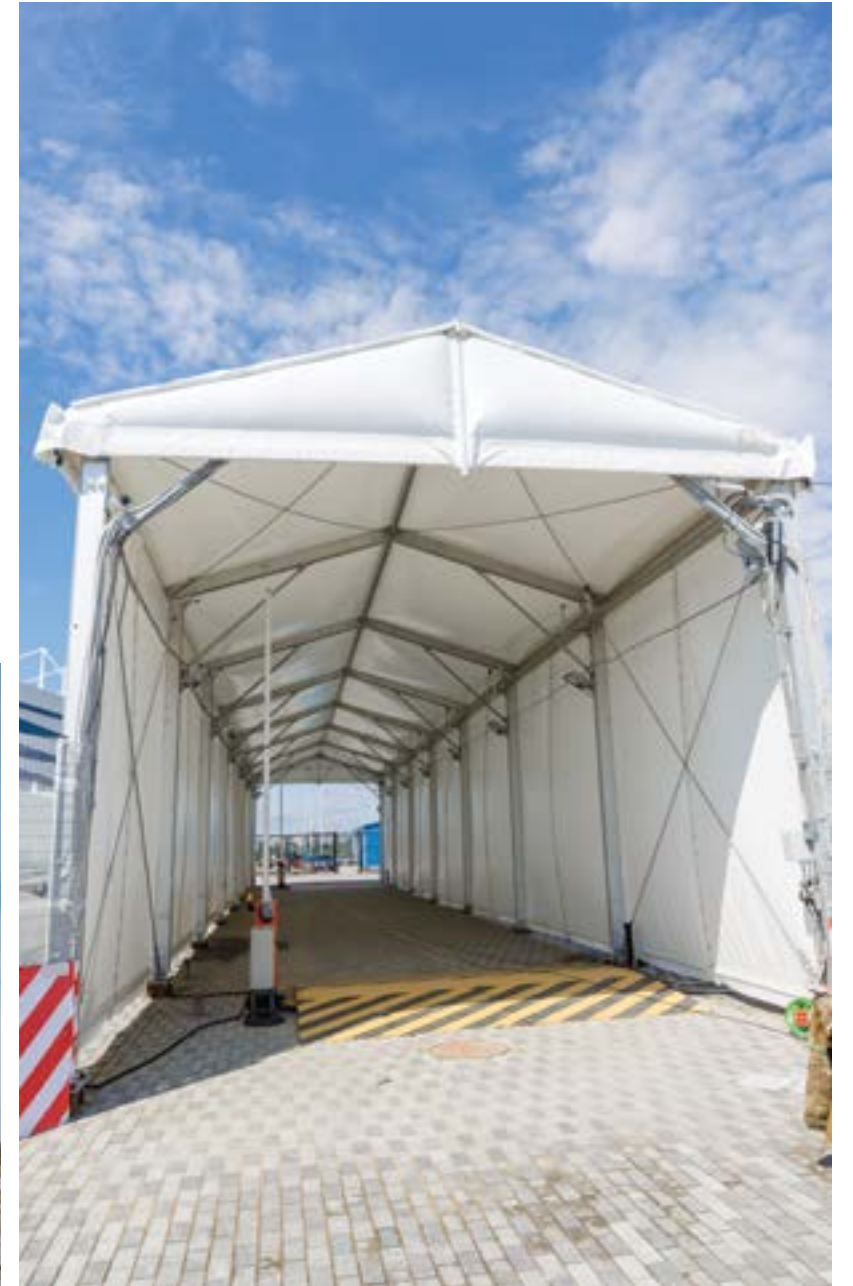


Fast really means fast. For example, assembling a 3x3 m pagoda takes only a couple of hours, because constructions do not require foundations. They are especially effective in tight deadline projects or capacity buildings.

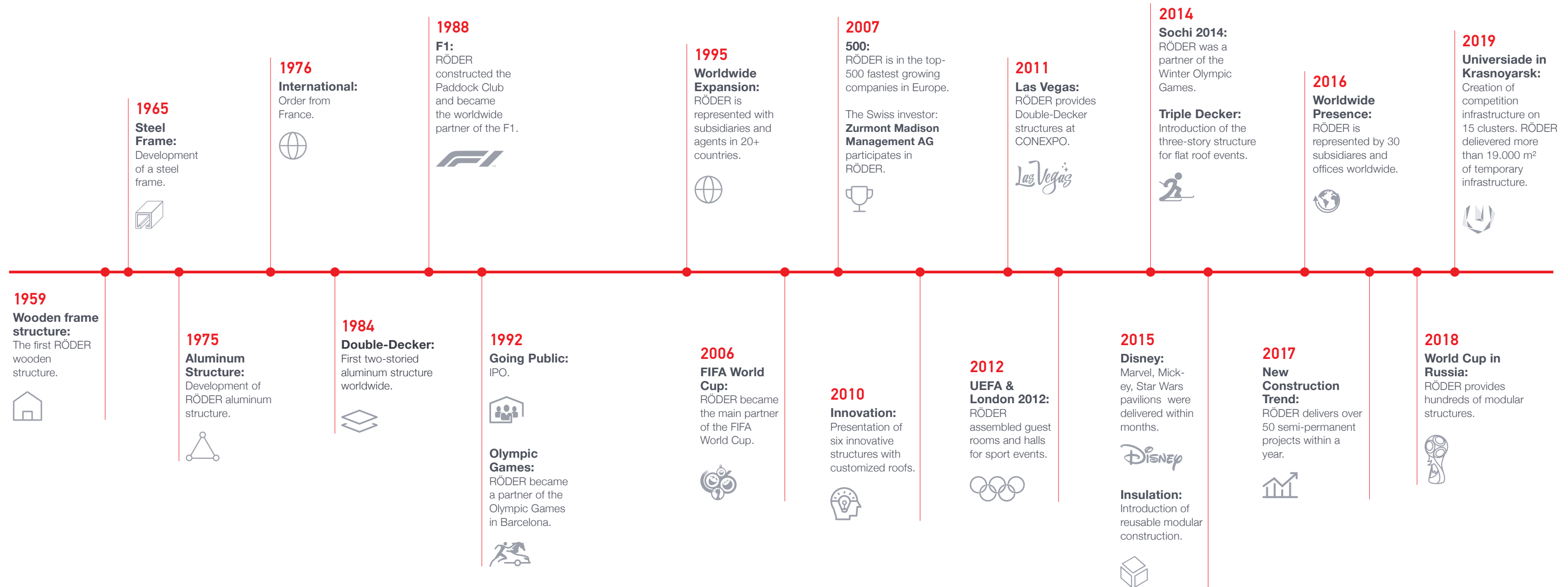
RÖDER tents are temporary buildings, therefore they do not require numerous approvals and permits, that speeds up the project launch cycle.

2_h

minimum
assembly
time



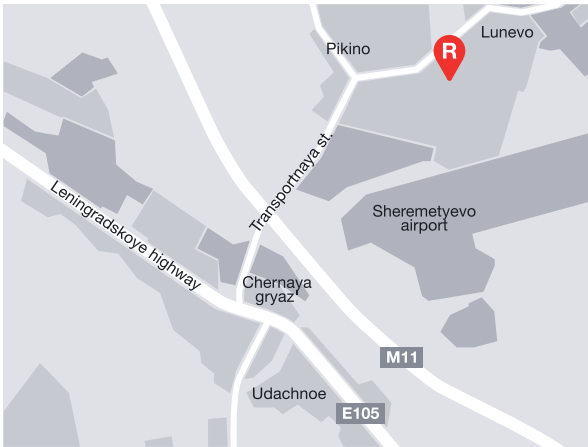
RÖDER GROUP HISTORY



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#WEBUILDIT

Aluminum does not
rust during storage
and operation