Modular Security Buildings

Compound Access Control – Guard Booth
Flexible Access Control for Altering Security Requirements. Installed and Ready to Use within 1 to 7 Days

Brief Description

- Modular building method and flexible interior furnishing.
- Number of modules are variable. Quantity of modules can be raised up supplementary.
- Installed and ready to use within 1 to 7 days after foundation preparation.
- You can choose the security level against:
  - forced entry
  - bullet and blast resistance
- Wall elements are available in various combinations and certified security levels.
- The security levels can be upgraded at a later date.
- Our modular guard house can be installed as fixed or mobile unit.

Advantages

- Planning and production from one company: all security relevant elements are manufactured by SÄLZER and certified by independent testing institutes.
- Delivered as complete unit, ready for use.
- An examination of production by customers is possible before delivery.
- Can be used worldwide: adapted to country specific characteristics, e.g. climate, electricity mains etc.
- Flexible application types: using standard container sizes allows easy worldwide transportation via trucks, or ships.

Sketch of a guard house: 3 modules, guard room, reception room (incl. rest room) Guard room is equipped with 2 high security transaction drawers to transfer documents.

Architects, builder and building contractors have unlimited possibilities: doors, windows, glass facades can be designed individually (photo: with kind permission Wayss & Freytag Ingenieurbau AG).

Individuell Security Concepts

Tested and Certified Security
Forced Entry, Bullet, and Blast Resistant

- **Forced entry resistance**
  according to **US-DOS SD-STD-01.01 Rev G**:
  5 FE, 15 FE/BR, 60 FE/BR (doors)
  according to **DIN EN 1627-1630**: up to level RC 5
- **Bullet resistance**
  according to **US-DOS SD-STD-01.01 Rev G**:
  5 FE, 15FE/BR, 60 FE/BR (doors)
  according to **UL 752**: up to level 8
  according to **DIN EN 1522 + 1523** up to level FB 7-NS
- **Blast resistance**
  reflected pressure: up to 8.8 bar (128 psi)

Modules can be combined in different security levels and quantities. Roof, windows, doors, panels, transaction drawers can be integrated in the same security level.

Construction

- You have unlimited possibilities to create the facade: windows and doors in classic frame construction, and the currently popular thermal skins in corrugated form. Even masonry can be used, because the frame weight capacity is 200 kg/m². Panels can be varied, even at a later date, in a very short time with a choice of windows, doors, opaque, and various security levels.

- **Standard size of the modules:**
  type 20 ft: 8 x 20 x 9 ft (w x l x h)
  type 10 ft: 8 x 10 x 9 ft (w x l x h)
  Other sizes also possible.

- **Roof construction**: roof skin is a single piece, 2 mm thick corrugated aluminum sheet. Flat, saddle or hipped roof; Optional: overhang roof in different length, additional roof designs upon request.

- **The flooring** has a vapor barrier. The galvanized zinc floor frame accommodates a 80 mm thick insulation which serves as a foundation for OSB sheet flooring.

- **Rest room**, includes toilet, sink with electric hot water heater.

- **Storage room** can be integrated, optional accessible from the outside.
Individual Equipment and Architecture

Options for Doors and Windows
The SÅLZER profile system permits various construction for individual requirements: different styles, materials, colours or claddings are possible.

Surfaces and Colors
Standard color: white / dark gray / silver-metallic, further colors upon request.
Architectural sophisticated surfaces like corrugated aluminum possible.

HVAC
Heat and cool systems in different versions.

Inside Paneling (Examples)
- Ceiling with acoustic panels
- Aluminum strip ceiling
- Fabric wallpaper
- Powder-coated sheet metal
- Floor covering: linoleum, ceramic tiles, carpeting, pvc covering, aluminum or steel floor
- Built in furniture upon request: locker, sideboard, shelf, table and a countertop integrated in the guard room.

Lighting and Sockets of your own Choice
Options: service outlet column, e.g. for personal and luggage x-ray machine.

Guard house can be used world wide; the country specific electricity mains are available.
Guard House with Windows, tested in tilted Window Position

The SECURO® window was tested in tilted window position:
• forced entry resistance up to resistant level RC 3
• and explosion resistance up to a pressure load of 100 kPa.

In the tilted position the window offers security against forced entry and blast and provide ambient room temperature.

Service
Quick, flexible planning and production in accordance with customer requests. Shipping and assembly is available.

Foundation
- Strip foundation (integration of ramming protection in the foundation is possible)
- The preparation of the foundation is done at customer’s request
- Site preparation: communication and electricity cables and water/drainage pipes
The Way of the Guard House – Turn Key Solution

At SÄLZER

At the Construction Side

Guard Houses for special Applications - Tested according NATO STANAG 2280 Security Level C4 | C5

The elements survived the enormous explosion of mortar grenades and artillery shells detonated at minimum distance. Even big fragments of grenades have been absorbed securely and did not penetrate the construction.

<table>
<thead>
<tr>
<th>Security Level</th>
<th>Type</th>
<th>Caliber</th>
<th>Distance</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>C4</td>
<td>mortar</td>
<td>120 mm</td>
<td>1 m</td>
<td>ca. 16 kg</td>
</tr>
<tr>
<td>C5</td>
<td>artillery</td>
<td>155 mm</td>
<td>1,5 m</td>
<td>ca. 43 kg</td>
</tr>
</tbody>
</table>

Security Concepts for Soldiers in Conflict Areas

The tested elements can be individually combined according to the specific purpose:

- as protection walls in front of existing buildings.
- the individual components can be combined to build guard and/or accommodation buildings that offer protection against mortar and artillery grenades.
Different Samples of Modular Guard Houses

1. Guard House, Example with 3 Modules

Elevation

Floor Plan

2. Guard House, Example with 2 Floors

Elevation

3. Guard House, Example with Roof Extension

Elevation

Floor Plan
4. Guard house, example with 5 modules

Elevation

5. Guard House, Example with Special Roof

Elevation
6. Guard House, Example with Sliding Door

Elevation

- North
- East
- South
- West

Floor Plan

7. Guard House, Example with Special Roof

Elevation

- South-West
- North-East

Floor Plan
SYSTEM SÄLZER®

Combined Protection

For more than 40 years SÄLZER has led the industry in the development and technology of forced entry, bullet, fire and blast resistant building components.

Each of our products is subject to a strict internal and external quality management.

Please ask for additional brochures about our further products: windows, facades, doors, gates, guard houses, partition walls, access control, barriers, bollards, accessory components etc.

Spectacular test videos:
youtube.com/user/saelzersecurity

Latest information:
facebook.com/saelzer.marburg