

TB-10-EN



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**MILITARY LOGISTICS SYSTEMS
PRODUCT CATALOG**

MILITARY LOGISTICS SYSTEMS

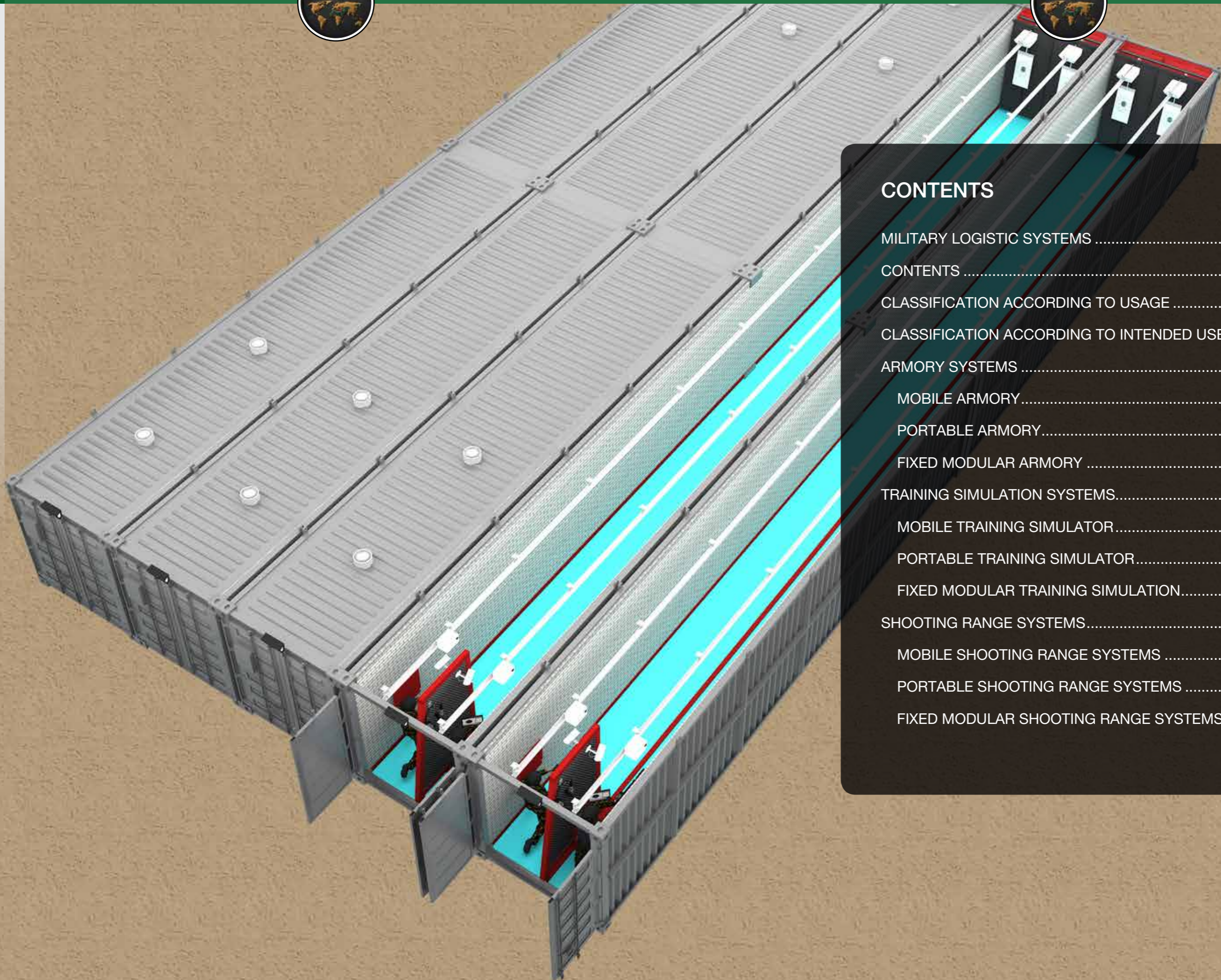
Military logistics systems designed by Sadat defense are a work aimed at increasing the success of training, military exercises or operations and seriously contributing to the success of possible operations, the need for rapid action and mobilization, also used by advanced armed forces. The main objective is to meet the need for transferring the elements fighting to the training, military exercise or operation area from where the barracks are located, as well as the logistics needs at the same speed.

While measuring the fighting power of the countries, it is looked at the amount of logistical support provided for each active-duty soldier in the background. The high rate is considered as the main factor of success. This concept designed by SADAT Defense due to the current need; It contributes greatly to the mobilization of the logistics system of the military units (armory, shooting range, training simulation system, storage area, field kitchen, field hospital, etc.).

Among the systems created, especially those are created for the purpose of storing and transporting ammunition, were designed in accordance with the "NATO Ammunition Storage and Transport Rules Regulation (AASTP-1)".

All Mobile Logistics Systems are designed in accordance with ISO/TC 104 standard in order to provide mobilization.





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CLASSIFICATION ACCORDING TO USAGE

Systems are evaluated in 3 categories according to their usage;

• **MOBILE SYSTEMS;**

are ready to be deployed on the trailer in standard international ISO/TC 104 dimensions. If desired, relocation can be made without the need for an additional loading and unloading process. The necessary energy supply to the system is made from the vehicle it is connected to.

• **PORTABLE SYSTEMS;**

are designed for a specific region or to provide temporary service to the barracks where the troops are deployed in the short and medium term (for 6 months – 3 years). When the need for service is over, only after the energy connections are removed from the fixed facilities, the system is practically designed to be transported with the help of a crane so that it can be moved to the new service location in or outside the region. The system provides its energy from the city grid where it is temporarily placed.

• **FIXED MODULAR SYSTEMS;**

are designed to serve permanently in places such as the rear areas and barracks where they are placed. Thanks to its modular structure, it can be used together in multiple (2, 3 or more) units in various configurations according to the need. The units can be placed under the surface (ground) or they are suitable for use by supporting with cover-concealing on the surface. The system provides its energy from the city grid where it is placed fixedly.



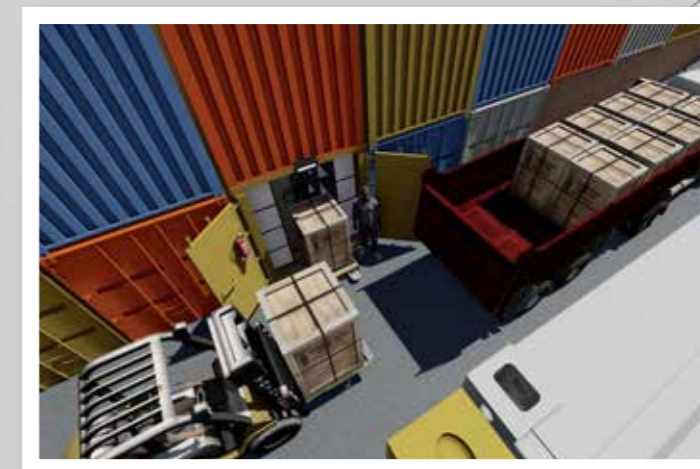
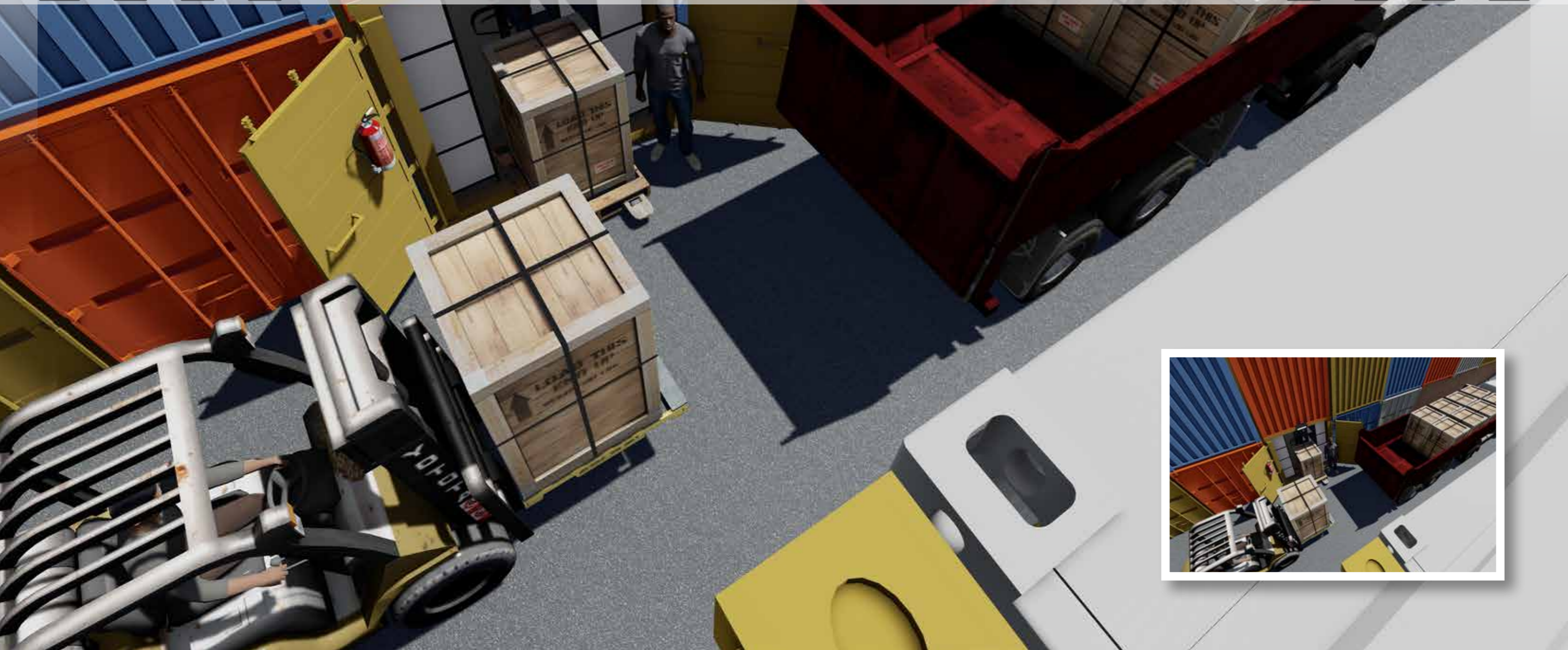
CLASSIFICATION ACCORDING TO INTENDED USE

Military Logistics Systems Concept produced by SADAT Defense cover a wide range of products considering all the needs of the Armed Forces.





ARMORY SYSTEMS





ARMORY SYSTEMS

This new concept, designed and implemented by SADAT Defense, meets the "Mobilization" requirement of all modern armies.

Mobile, portable and fixed modular armory designs both increase the capabilities and mission success of the country's Armed Forces, facilitate the accomplishment of the task and create a significant advantage due to its low cost.

Mobile and Portable Armory Systems are mainly suitable for barreled weapon ammunition between 5,56 mm and 155 mm diameters.

In all three systems, it is vital to observe detailed safety rules such as maintaining the explosive charges of ammunition in an air conditioning environment that will not be affected by temperature, as well as removing and transporting plugs and detonators separately in all types of grenades (assault, defense, fog and fire grenades etc.) as well as barrel artillery and tank munitions. Warfare Engineering Explosives (all kinds of mines, IEDs, TNT and C-type destructors and similar detonators, pyro-technical products) must be transported or stored in separate vehicles and in a manner prescribing their own safety rules, under the conditions stipulated by the technical specifications. It is not possible to act in a way that would cause absolute negligence.

Prescribed Load Ammunition is the portion of ammunition that is stored at the level of the company and battalion, starting from the weapon share or single soldier, transported by the vehicles of the unit's own personnel from the arrival of the gathering areas and allocated to the unit before entering the battle. In other words, the amount of ammunition expected to be spent on the first day according to the type of combat (offensive – defense – retrograde) from the moment the Prescribed Load Ammunition military unit enters the battle is the amount stipulated in the "Logistics Factors Directive", a publication of the Armed Forces of the country to which it belongs, obtained from previous combat experiences.

PRESCRIBED LOAD AMMUNITION = Weapon Share + Troop Share

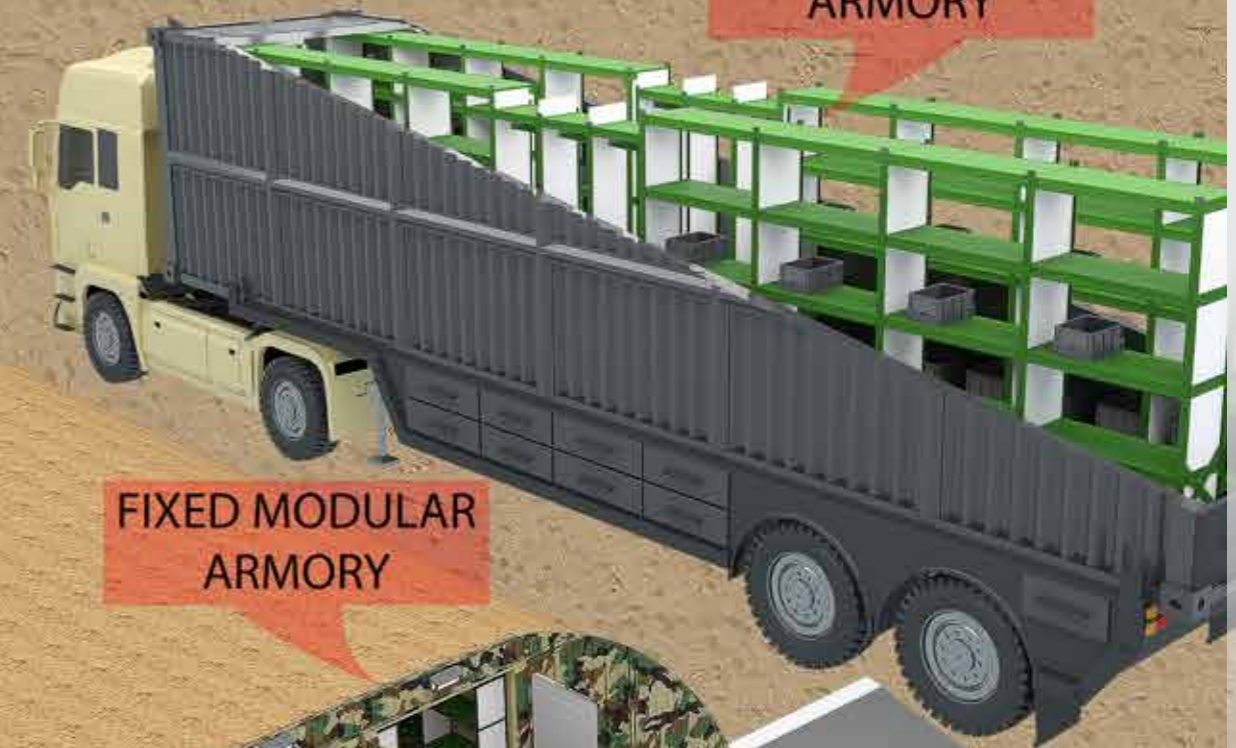
Prescribed load ammunition is the ammunition needed by combatant battalions (Tank, Infantry, Mechanized Infantry, Commando, Special Force, etc.) and combat support battalions (Artillery, Engineering, Army Aviation) as they are consumed in combat. "TROOP SHARE" is supplied from the upper units (Brigade, Division, Corps) to which they are affiliated in the first procurement. The ammunition share in each level is called "TROOP SHARE". We recommend that the "Troop Share" to be transported by MOBILE systems.

Brigade, Division, Corps Share is kept in Army Ammunition Companies. When needed, the ammunition company is transported from the army ammunition storages to the training, exercise or front line by supply vehicles. PORTABLE and FIXED ARMORY SYSTEMS in SADAT Defense systems can be used to supply ammunition from army ammunition companies to troops that have combated.

**PORTABLE
ARMORY**



**MOBILE
ARMORY**



**FIXED MODULAR
ARMORY**

Shelf System

SADAT Defense Military Logistics Systems have shelf systems with a load carrying capacity of 150 kg in each separated section in order to benefit from the usage areas at the maximum level. The shelf systems used can be designed in different shapes and capacities, if needed.

Easy Loading and Unloading

In the interior design of SADAT Defense Military Logistics Systems, the standard pallet truck and forklift can be used for practical loading and unloading, and it is especially designed to reach every point of the system easily.

Interior Equipment (ex-proof electricity installation, camera, fire extinguishing, air-conditioning system)

Military Logistics Systems designed by SADAT Defense meet the international standard against all kinds of risks, especially in case of high-risk product transportation/storage. Especially in electrical equipment, explosion-proof illumination and in all electrical installations, explosion-proof cables/protection are used. It is equipped with a CO2 extinguishing system, which can be activated remotely in measures taken against fire.

The extra reinforced body with sound and heat insulation increases the durability. It has air-conditioning system.

In the systems used for high-risk and ammunition storage/transport, motion sensitive camera system is used as standard, and in case of any movement, the camera system starts to record. In this way, it has the opportunity to protect both products and to intervene remotely in case of possible fire.



MOBILE ARMORY



The Mobile Armory System is designed by SADAT Defense in order for the armory to reach any desired area quickly by ensuring all armory transport conditions. The system can take the required energy supply from the electrical system of the carrier vehicle, as well as a solar energy supply option.





DIMENSIONS	Type 1 (cm)	Type 2 (cm)
Width	244	234
Length	1220	589
Height	260	239

FEATURES

- Mobile,
- In standard of NATO AASTP-1,
- In standard of ISO/TC 104,
- Extra reinforced body,
- Inceasable capacity,
- Air-conditioning,
- Explosion Proof Electrical installation,
- Automatic CO₂ fire extinguishing system,
- Insulation (inside/outside)
- Solar energy system



PORTABLE ARMORY



The portable Armories can be used by being buried under the surface in the desired area or covered in accordance with the natural vegetation, and are designed to be easily transported to another area when necessary.



DIMENSIONS	Type 1 (cm)	Type 2 (cm)
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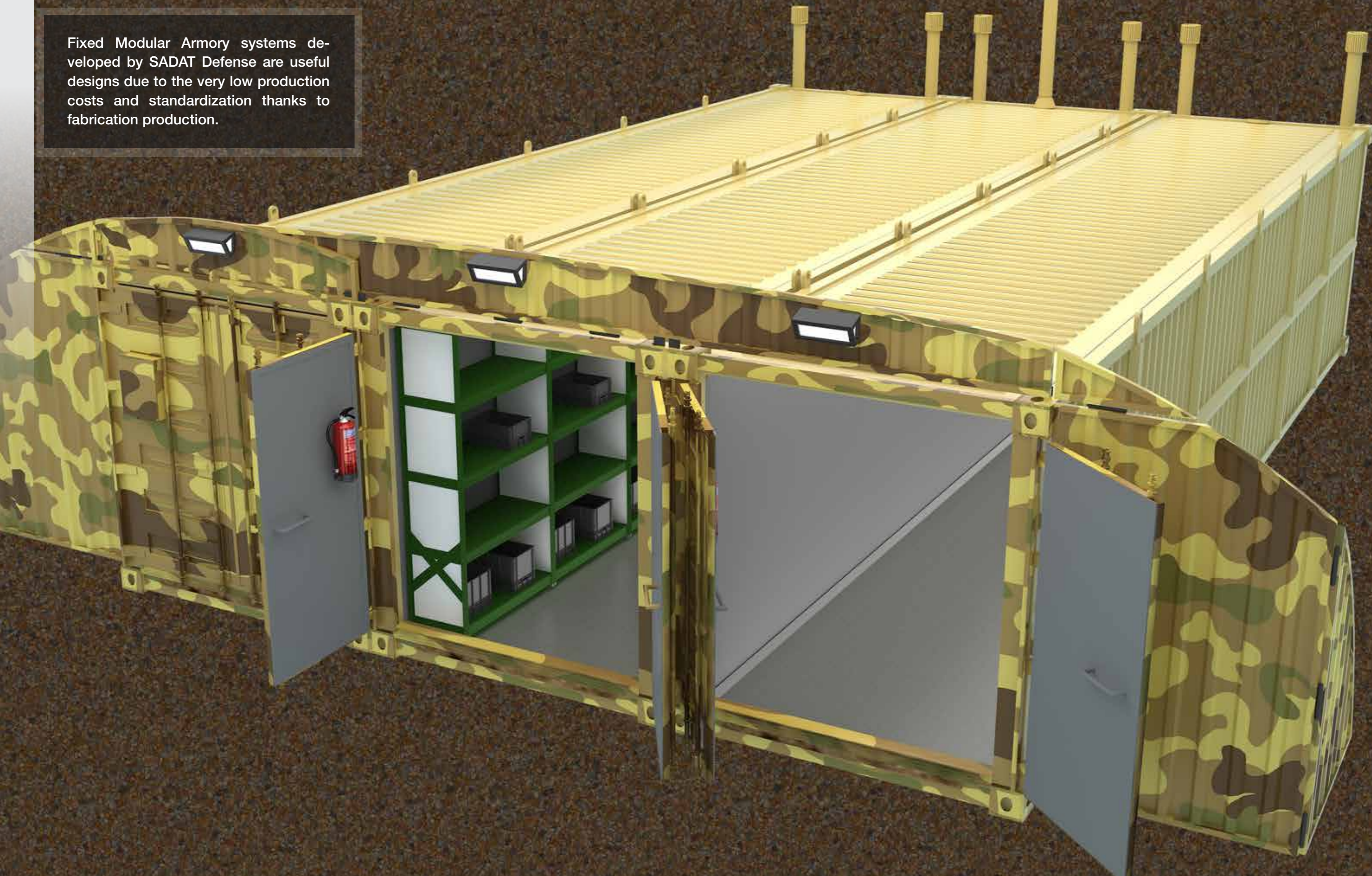
FEATURES

- In standard of NATO AASTP-1,
- In standard of ISO/TC 104,
- Extra reinforced body,
- Inceasable capacity,
- Air-conditioning,
- Lightning rod,
- Explosion Proof Electrical installation,
- Automatic CO₂ fire extinguishing system,
- Insulation (interior/exterior),
- In modular structure,
- Portable



FIXED MODULAR ARMORY

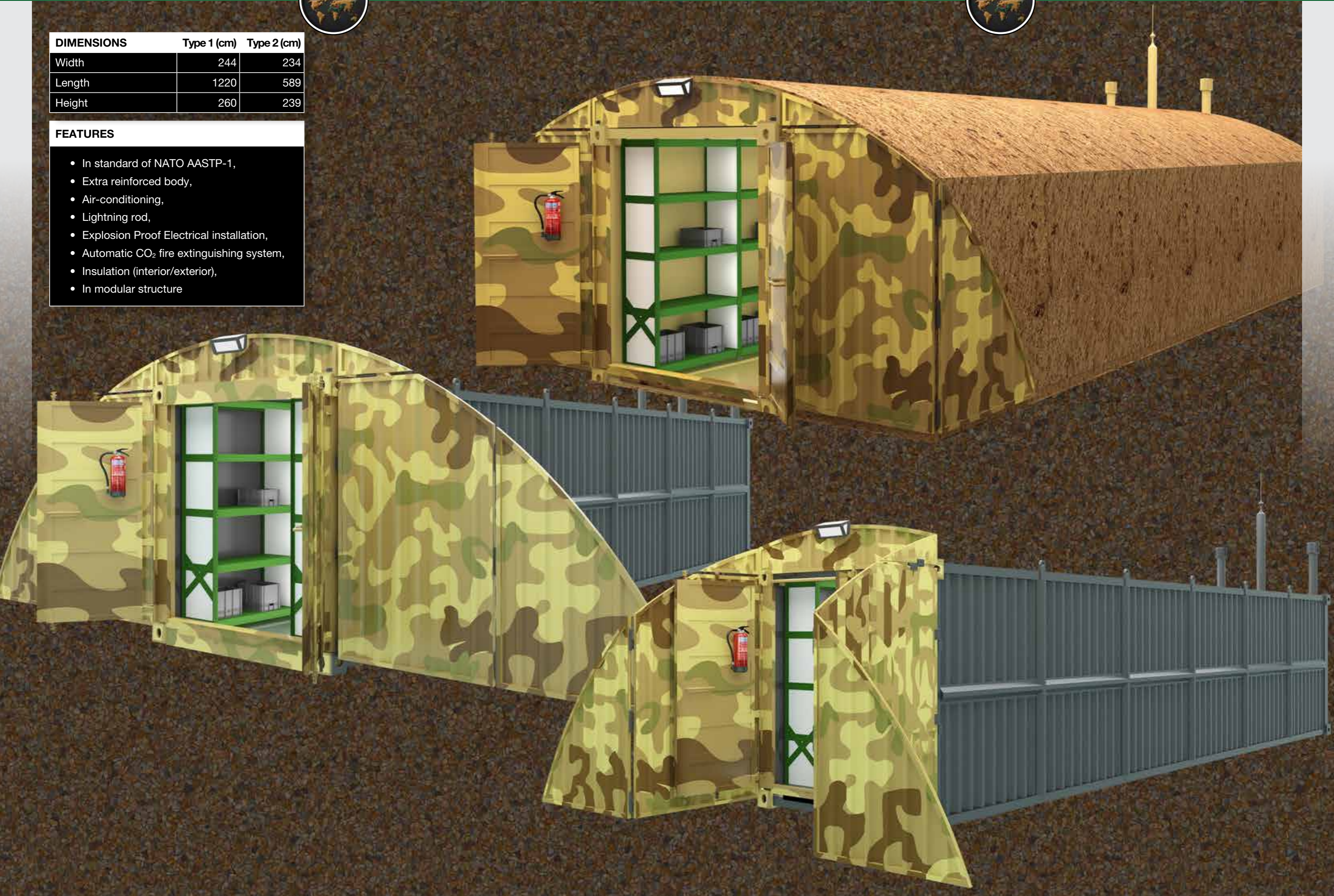
Fixed Modular Armory systems developed by SADAT Defense are useful designs due to the very low production costs and standardization thanks to fabrication production.





DIMENSIONS	Type 1 (cm)	Type 2 (cm)
Width	244	234
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- FEATURES**
- In standard of NATO AASTP-1,
 - Extra reinforced body,
 - Air-conditioning,
 - Lightning rod,
 - Explosion Proof Electrical installation,
 - Automatic CO₂ fire extinguishing system,
 - Insulation (interior/exterior),
 - In modular structure





TRAINING SIMULATION SYSTEMS CONCEPTS





TRAINING SIMULATION CONCEPTS

Advanced armies use training simulators in almost every branch. These simulators increase the quality of training and significantly reduce training costs. The concept developed by SADAT Defense produces low-cost solutions in order to use all kinds of training simulation systems at the desired point. This concept makes the simulation systems Mobile, Portable and Fixed, allowing them to easily reach the places where training is needed.

The training simulation concept developed by SADAT Defense adapts to the simulation systems that are developing every day. Simulation systems of all kinds of weapons, vehicles and trainings can be used within this concept. For example, pistol shooting, infantry rifle shooting, sniper rifle shooting, urban warfare team operations, anti-tank, anti-aircraft, use of all types of military vehicles and parachute training etc. with this concept developed, it significantly reduces the cost of installation and access to training, and standardization is achieved thanks to the country-wide modular concept. Thanks to the country-wide established standardization, assessing and evaluating the contribution of the training taken in this concept to the development increases the success to the maximum.

- In our mobile training simulator concept, the required training simulation system can be delivered mobile to the desired area at any time.
- In our portable training simulator concept, the required training simulation system can be moved to the desired area at any time and deployed to the desired ground. The difference of this concept from the mobile training simulator is that it is designed for medium term but not permanent training needs. When the need for training ends, the system can be taken to a new area where it is needed.
- Our fixed training simulator concept can be positioned where appropriate in the barracks area without the need to open space among existing buildings. It can be put into use very quickly with minimum construction cost. This concept consists of modular systems that can be transported to the region and converted into fixed form.

With this concept, mixed training systems can be formed by using pistol shooting, infantry rifle shooting, sniper rifle shooting, urban warfare team operation, anti-tank, anti-aircraft, all types of military vehicle use and parachute training etc. In addition, training programs designed by SADAT Defense can also be used within this concept. (You can visit our website for our training programs <https://www.sadat.com.tr/en/our-services/our-training-modules.html>)



FIXED MODULAR TRAINING SIMULATOR CONCEPT



MOBILE TRAINING SIMULATOR CONCEPT

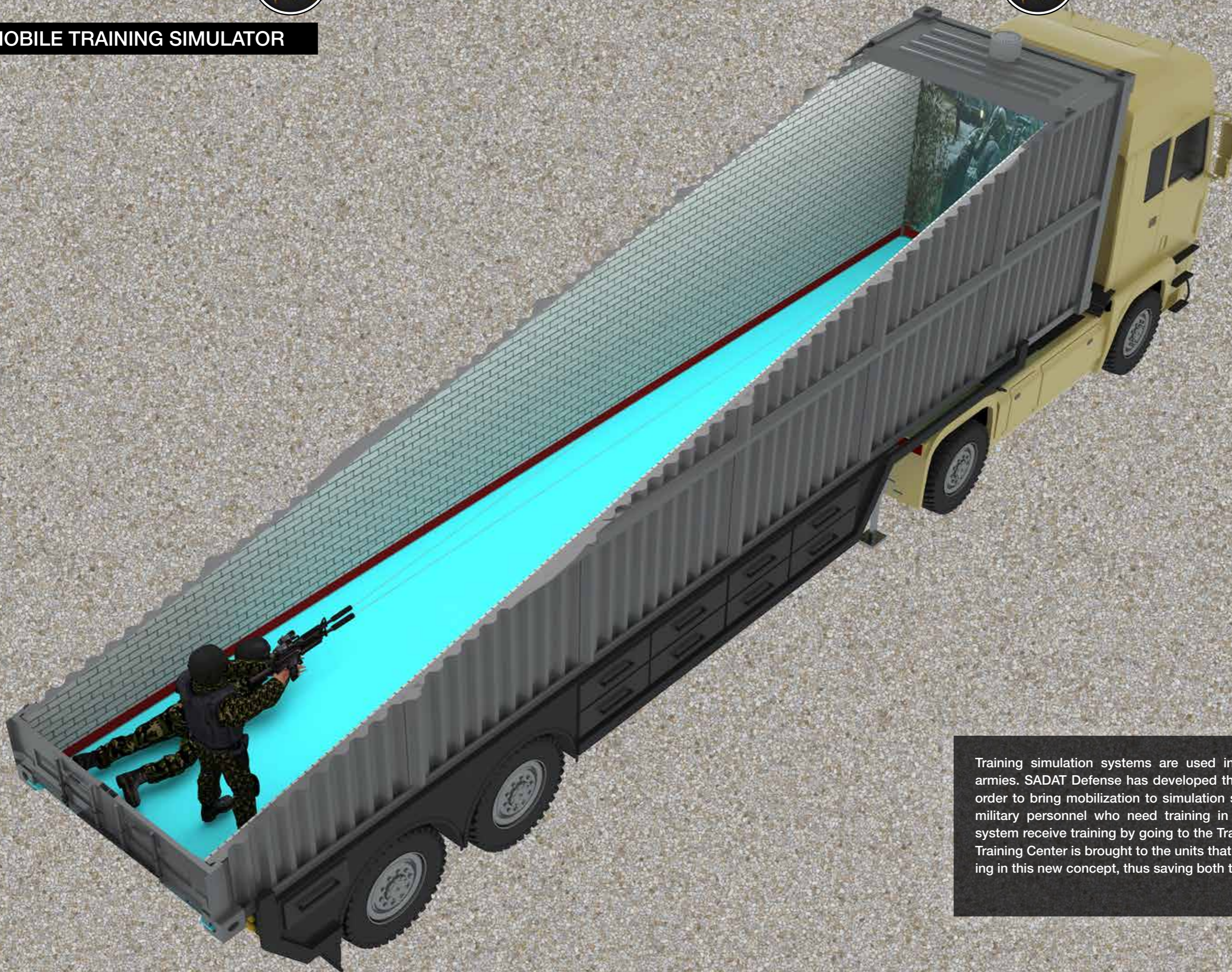


PORTABLE TRAINING SIMULATOR CONCEPT





MOBILE TRAINING SIMULATOR



Training simulation systems are used in all advanced armies. SADAT Defense has developed these designs in order to bring mobilization to simulation systems. While military personnel who need training in the traditional system receive training by going to the Training Center, a Training Center is brought to the units that will have training in this new concept, thus saving both time and cost.



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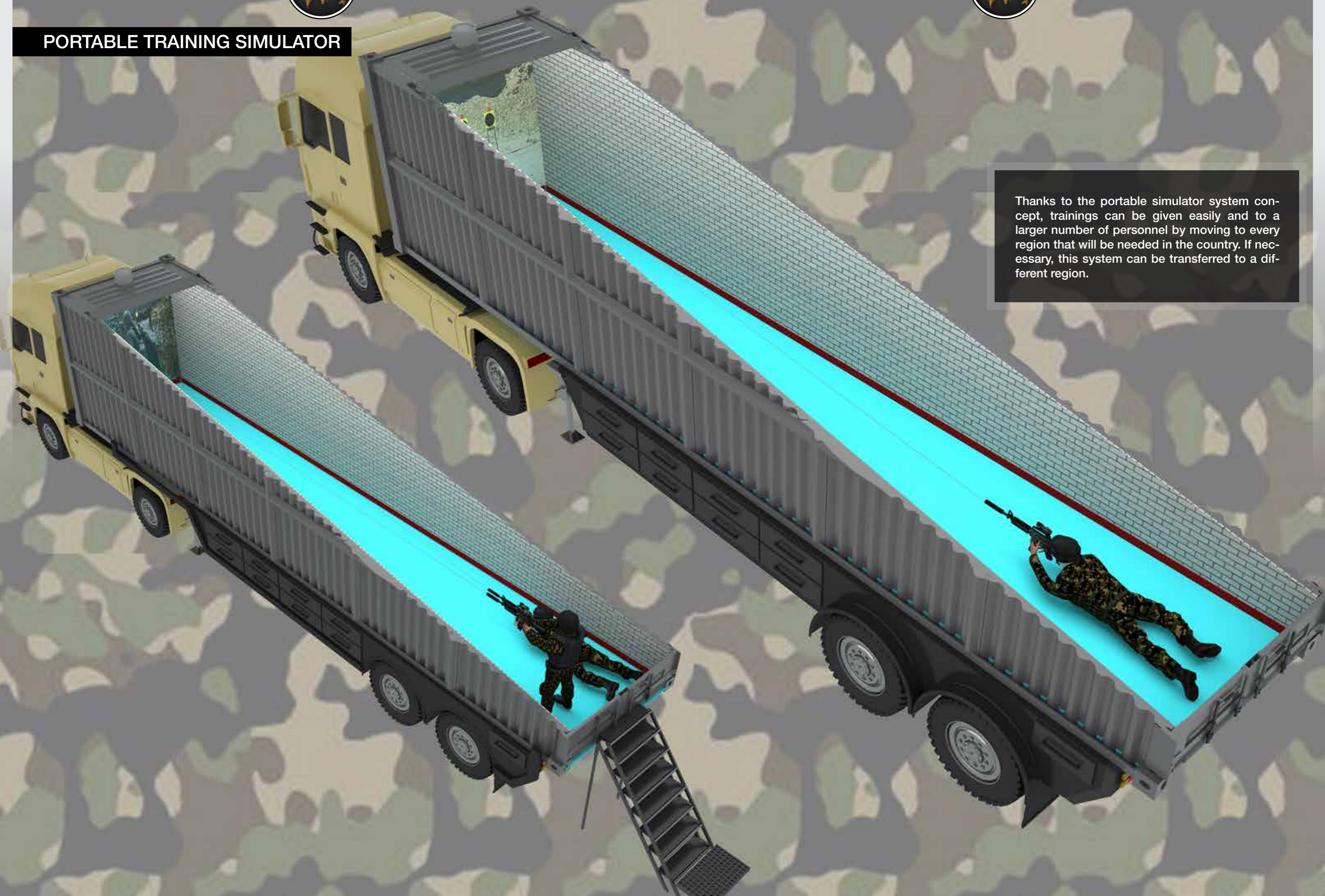
FEATURES

- In standard of NATO AASTP-1,
- In standard of ISO/TC 104,
- Extra reinforced body,
- Air-conditioning,
- Explosion Proof Electrical installation,
- Automatic CO₂ fire extinguishing system,
- Insulation (inside/outside)





PORTABLE TRAINING SIMULATOR



Thanks to the portable simulator system concept, trainings can be given easily and to a larger number of personnel by moving to every region that will be needed in the country. If necessary, this system can be transferred to a different region.





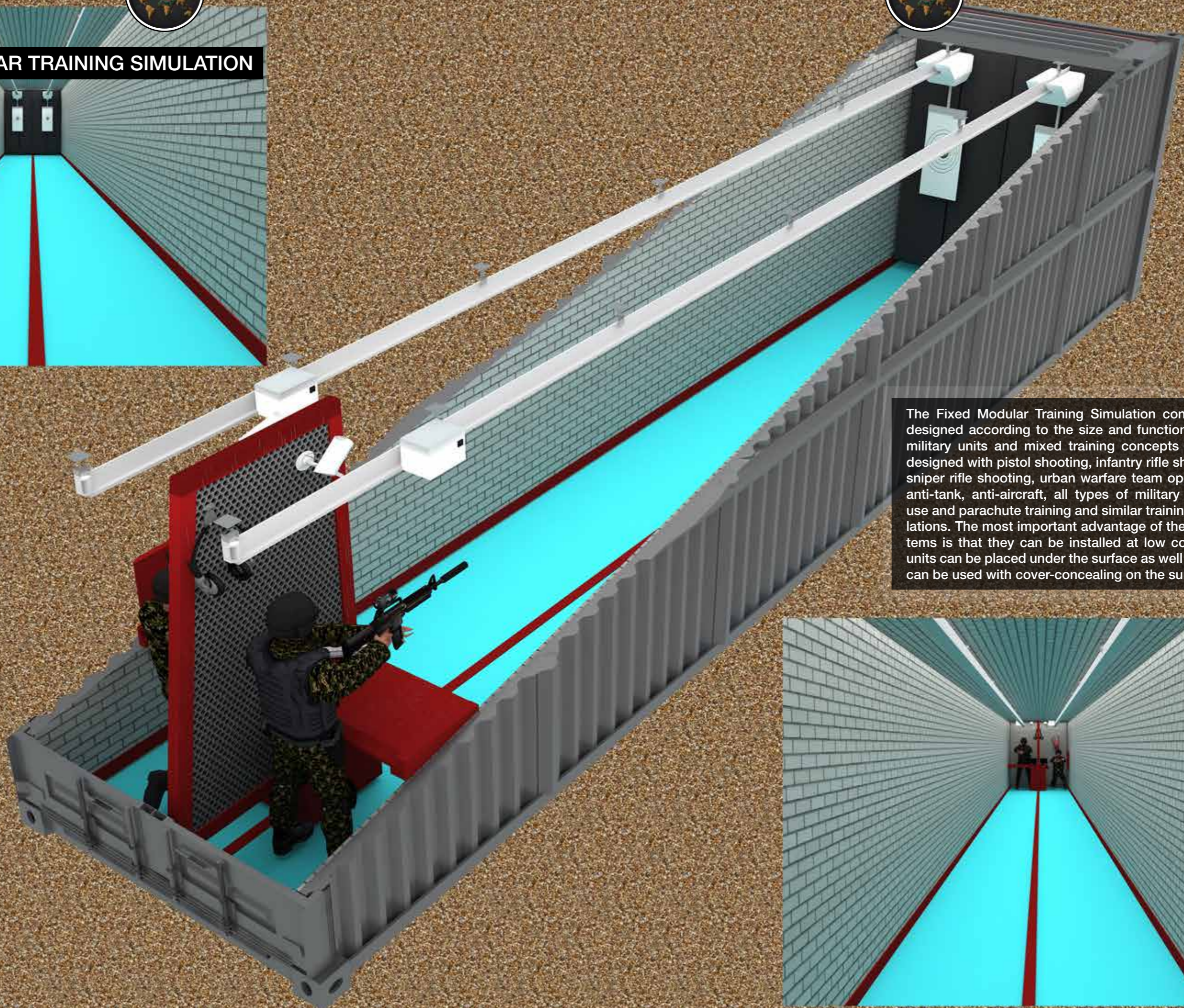
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FEATURES

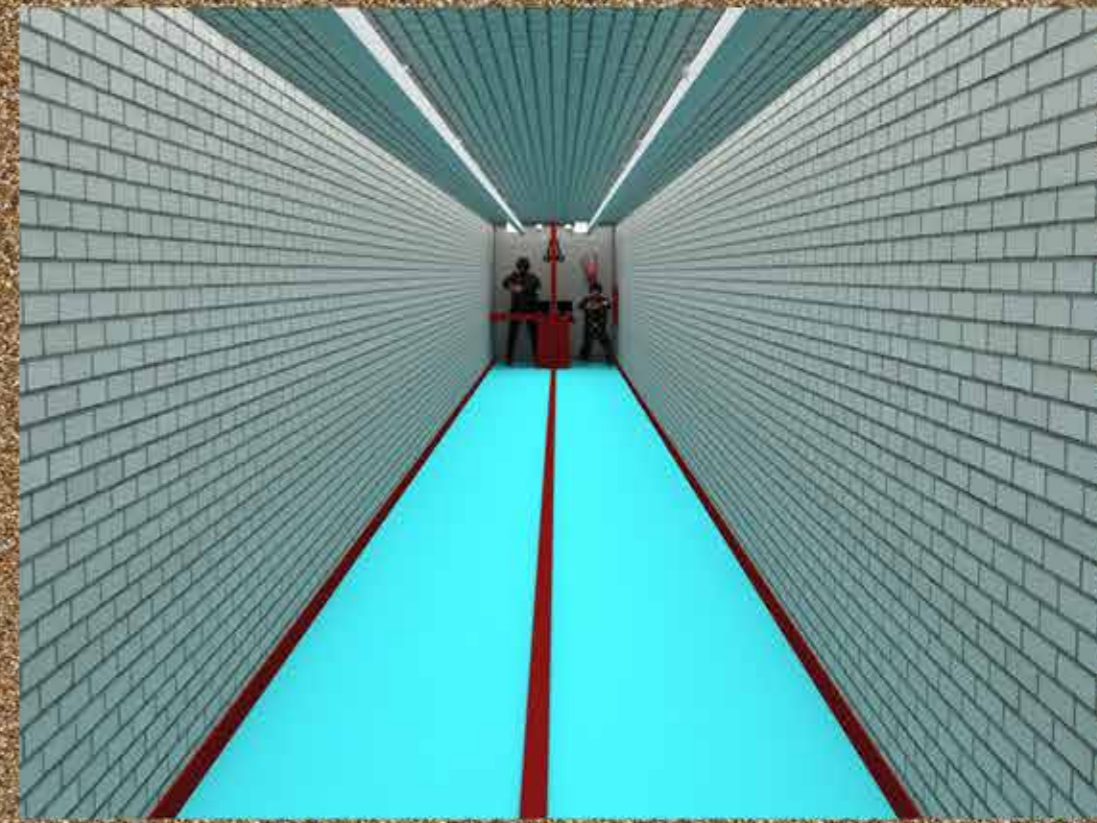
- Portable,
- In standard of ISO/TC 104,
- Extra reinforced body,
- Air-conditioning,
- Lightning rod,
- Electrical Installation,
- Automatic CO₂ fire extinguishing system,
- Insulation (interior/exterior),
- In modular structure,
- Increasable capacity

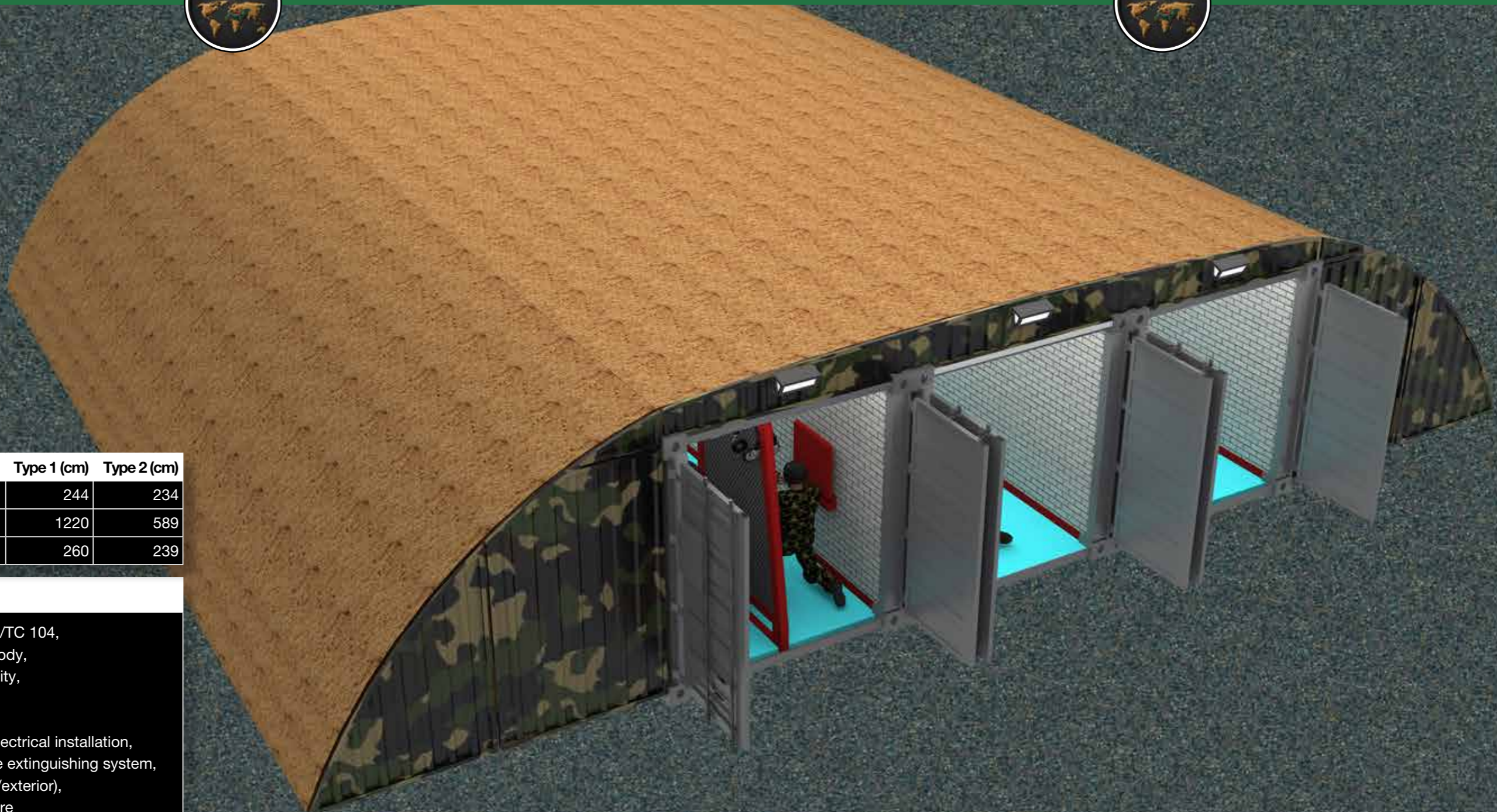


FIXED MODULAR TRAINING SIMULATION



The Fixed Modular Training Simulation concept is designed according to the size and functionality of military units and mixed training concepts can be designed with pistol shooting, infantry rifle shooting, sniper rifle shooting, urban warfare team operation, anti-tank, anti-aircraft, all types of military vehicle use and parachute training and similar training simulations. The most important advantage of these systems is that they can be installed at low cost. The units can be placed under the surface as well as they can be used with cover-concealing on the surface.





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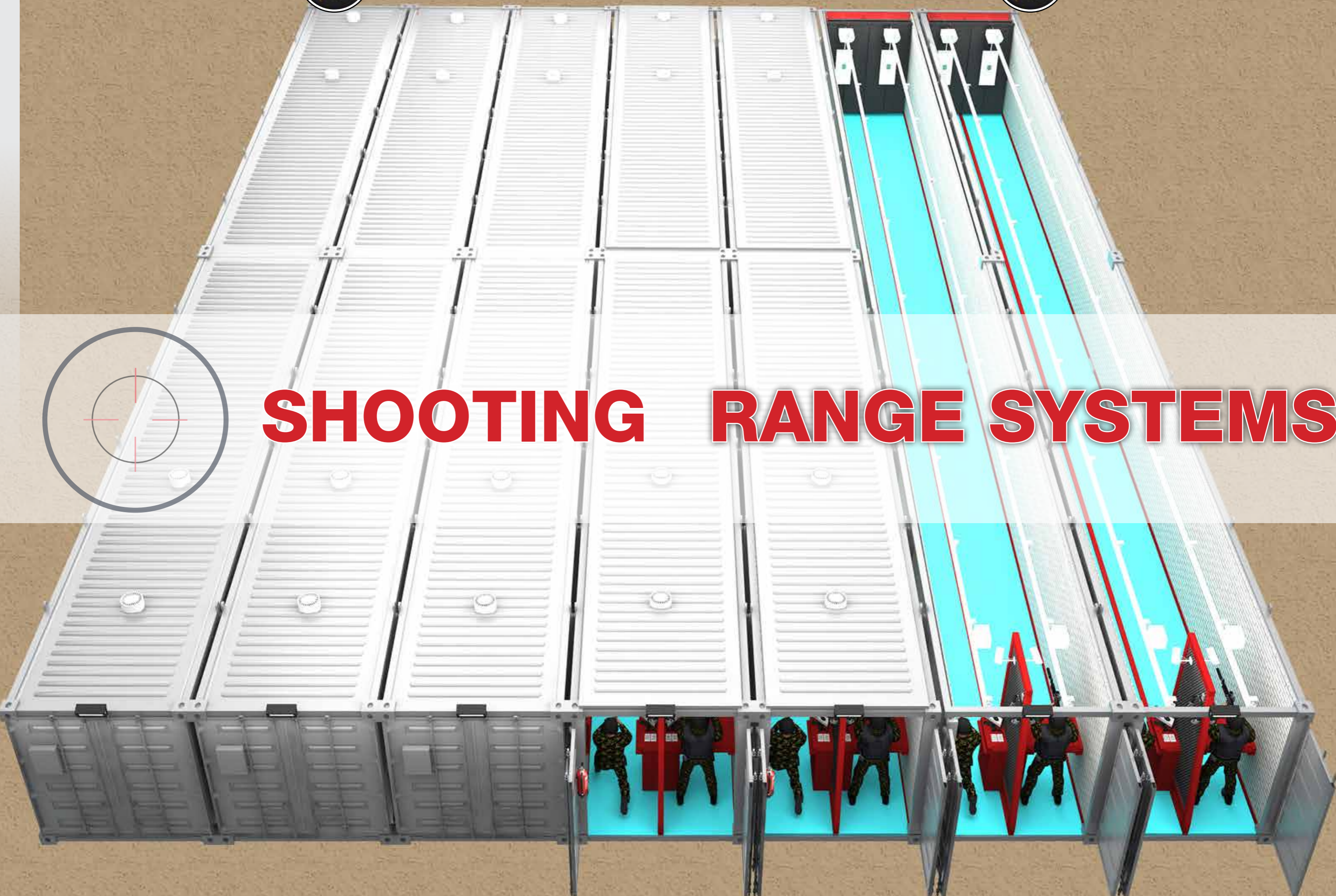
FEATURES

- In standard of ISO/TC 104,
- Extra reinforced body,
- Inceasable capacity,
- Air-conditioning,
- Lightning rod,
- Explosion Proof Electrical installation,
- Automatic CO₂ fire extinguishing system,
- Insulation (interior/exterior),
- In modular structure





SHOOTING RANGE SYSTEMS





SHOOTING RANGE SYSTEMS

It is recommended to the armed forces due to its low construction cost, being able to be transported where needed, increasable capacity when necessary, low operating cost, high-level security and many other advantages. Standard Shooting Range systems cannot be built in every military facility because of the very high cost of buildings and the high operating and maintenance costs. The fact that the "Shooting Range Systems" designed by SADAT Defense can be installed in any desired military facility or can be accessed by mobile, significantly and rapidly increases the capabilities of the armed forces.

"Shooting Range Systems" are systems where real shots can be made with pistol, rifle or even sniper rifle.

Systems are evaluated in 3 categories according to their usage;

- Mobile shooting range systems have its own wheels and the system can change its location at any desired time.
- Portable shooting range systems are designed to serve a specific region or barracks in the short and medium term. When the need for service is over, the system has been designed in such a way that it can be put into a new service position in or outside the region with the help of a crane just after the energy connections are disconnected.
- Fixed modular shooting range systems are designed to serve permanently at the point where they are planned. Thanks to its modular structure, more than one unit can be used together according to the need. The units can be placed under the surface or they can be used above the surface by covering them with soil.

FIXED MODULAR SHOOTING RANGE SYSTEMS



PORTABLE SHOOTING RANGE SYSTEMS

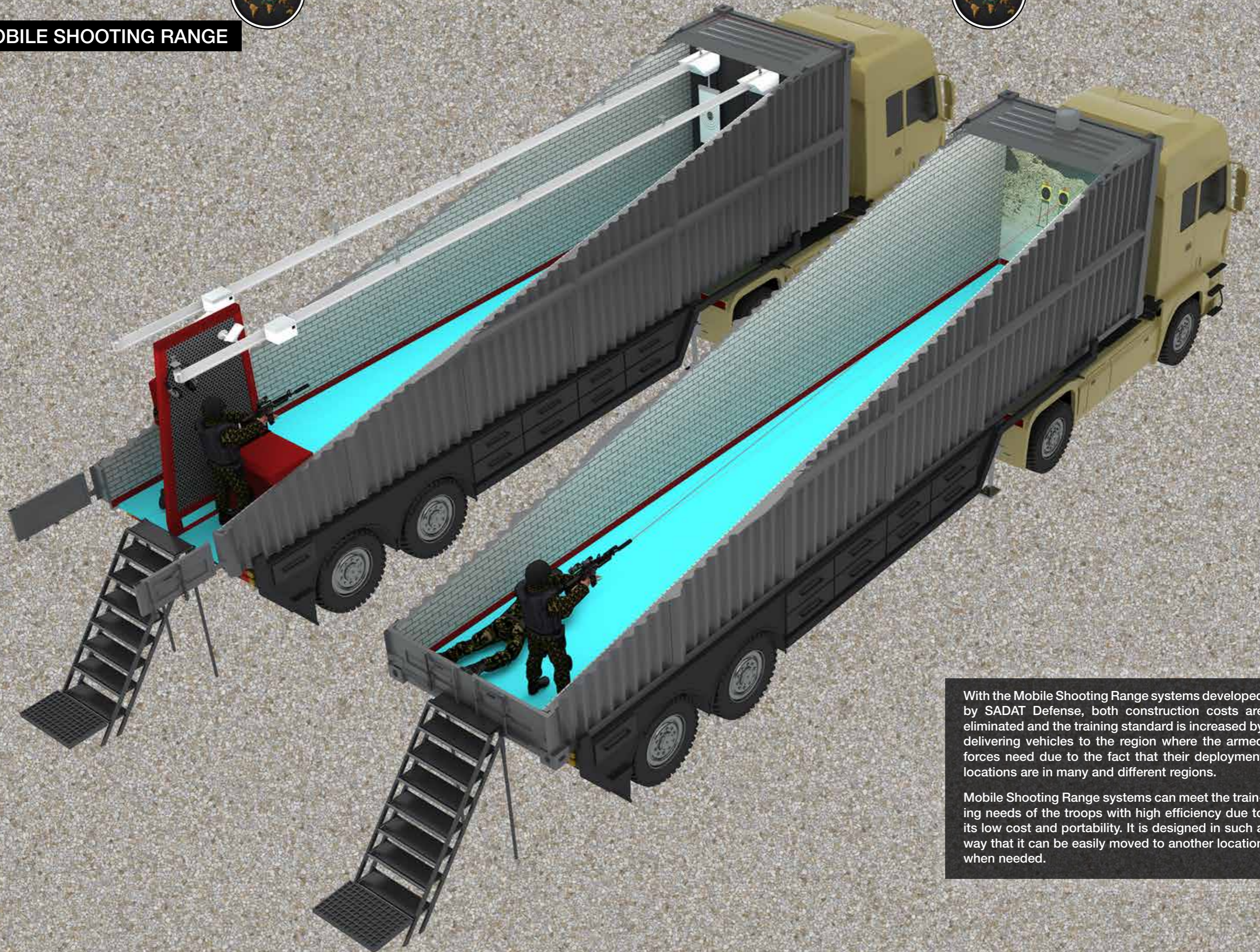


MOBILE SHOOTING RANGE





MOBILE SHOOTING RANGE



With the Mobile Shooting Range systems developed by SADAT Defense, both construction costs are eliminated and the training standard is increased by delivering vehicles to the region where the armed forces need due to the fact that their deployment locations are in many and different regions.

Mobile Shooting Range systems can meet the training needs of the troops with high efficiency due to its low cost and portability. It is designed in such a way that it can be easily moved to another location when needed.

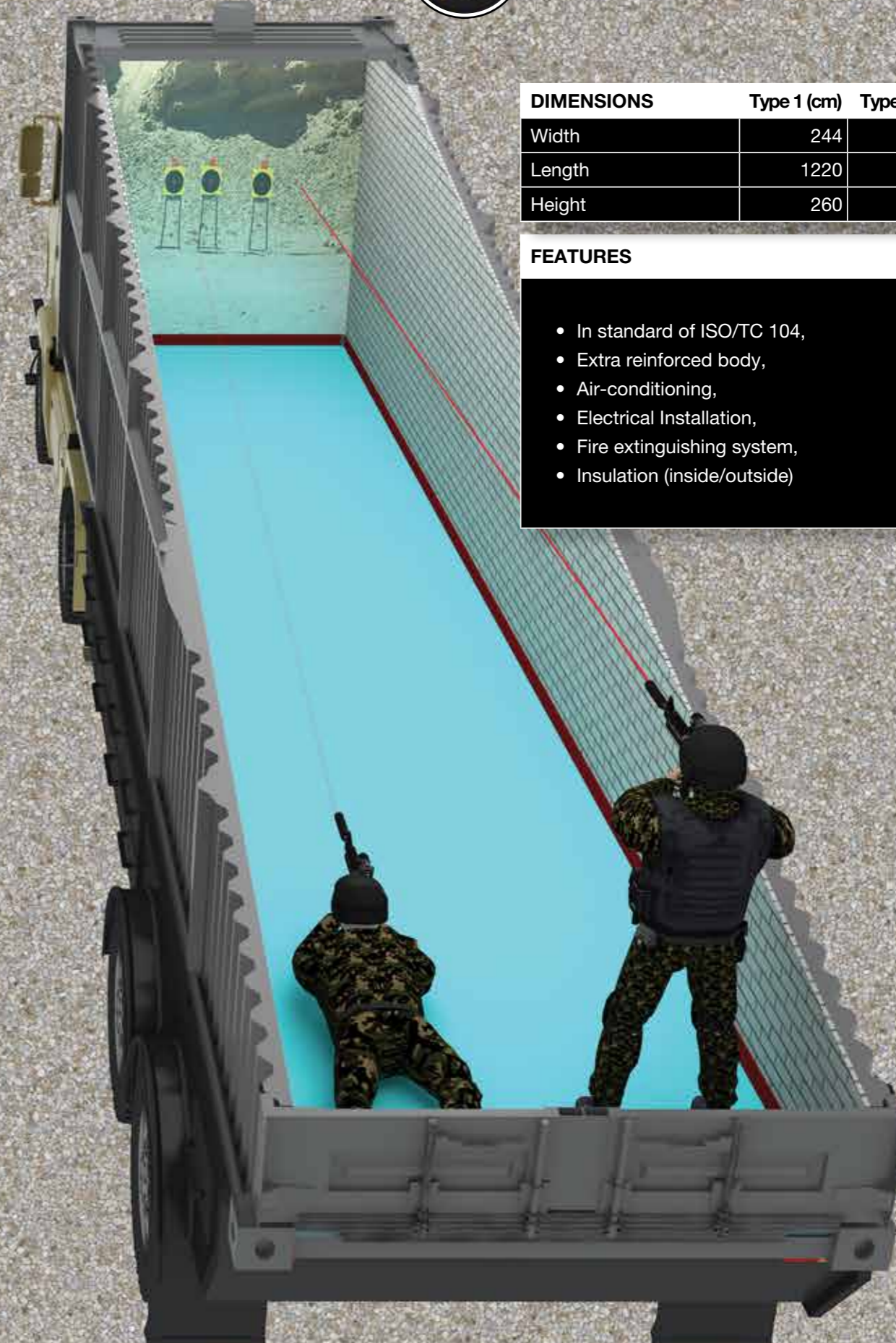




DIMENSIONS	Type 1 (cm)	Type 2 (cm)
Width	244	234
Length	1220	589
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FEATURES

- In standard of ISO/TC 104,
- Extra reinforced body,
- Air-conditioning,
- Electrical Installation,
- Fire extinguishing system,
- Insulation (inside/outside)

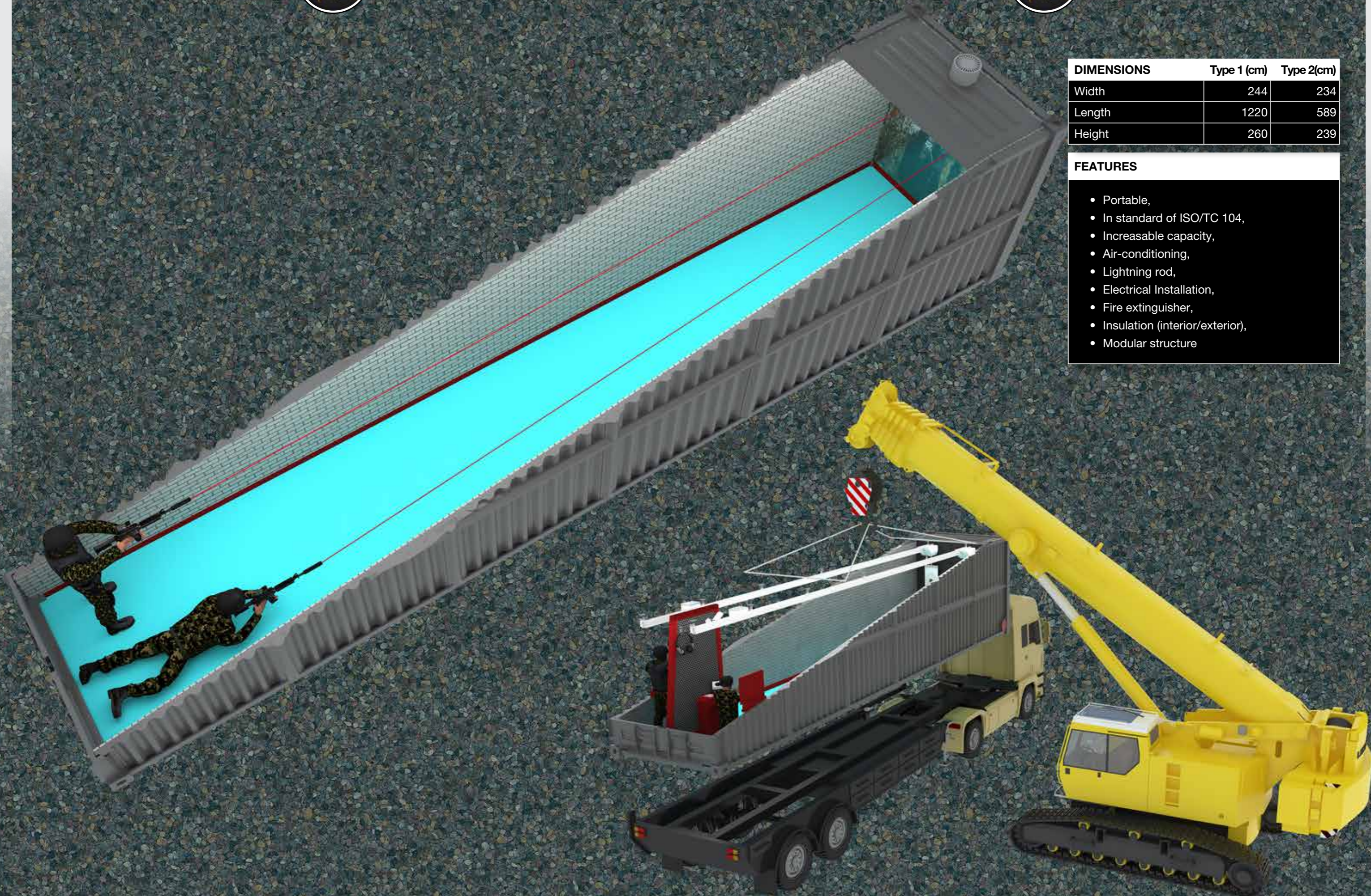




PORTABLE SHOOTING RANGE SYSTEMS

Portable Shooting Range Systems can be placed under or above the surface, and can meet the needs of the military units due to its low cost and portability. It is designed in such a way that its capacity can be easily increased thanks to its modular structure and can be moved to another location when needed.





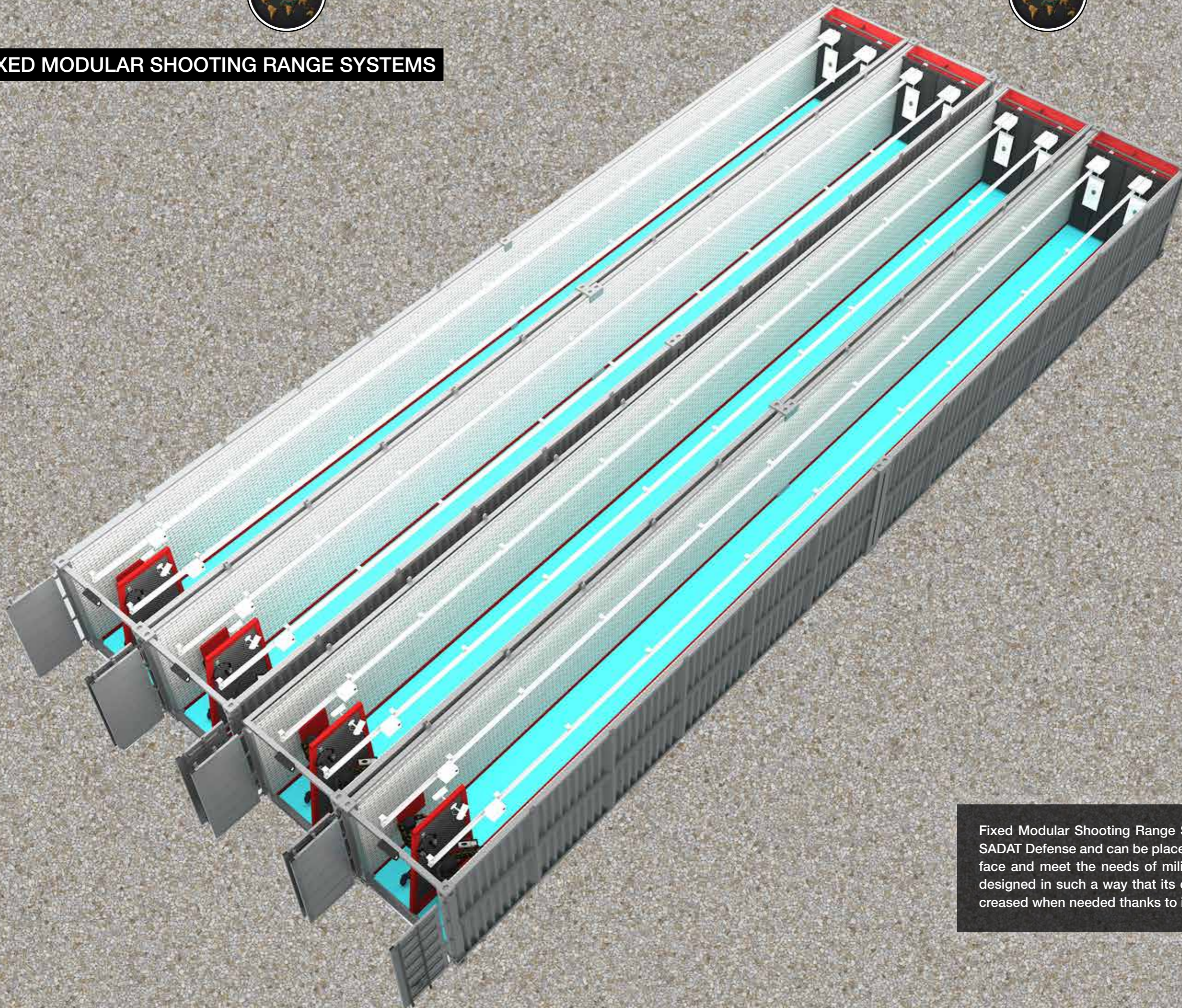
DIMENSIONS	Type 1 (cm)	Type 2(cm)
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FEATURES

- Portable,
- In standard of ISO/TC 104,
- Inceasable capacity,
- Air-conditioning,
- Lightning rod,
- Electrical Installation,
- Fire extinguisher,
- Insulation (interior/exterior),
- Modular structure



FIXED MODULAR SHOOTING RANGE SYSTEMS

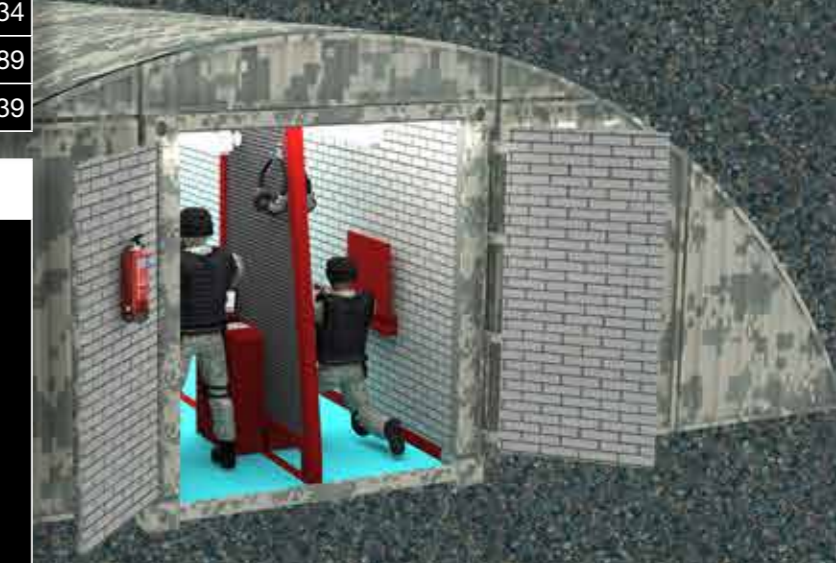


Fixed Modular Shooting Range Systems are designed by SADAT Defense and can be placed under or above the surface and meet the needs of military unit in all sizes. It is designed in such a way that its capacity can be easily increased when needed thanks to its modular structure.



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Width	244	234
Length	1220	589
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- FEATURES**
- Extra reinforced body,
 - Inceasable capacity,
 - Air-conditioning,
 - Electrical Installation,
 - Fire extinguishing system,
 - Insulation (interior/exterior),
 - Modular structure





OPTIONS



For all models designed by SADAT Defense, in addition to standard equipment, options according to your needs are also provided. The following options are added during the design phase but can be incorporated into the system later.

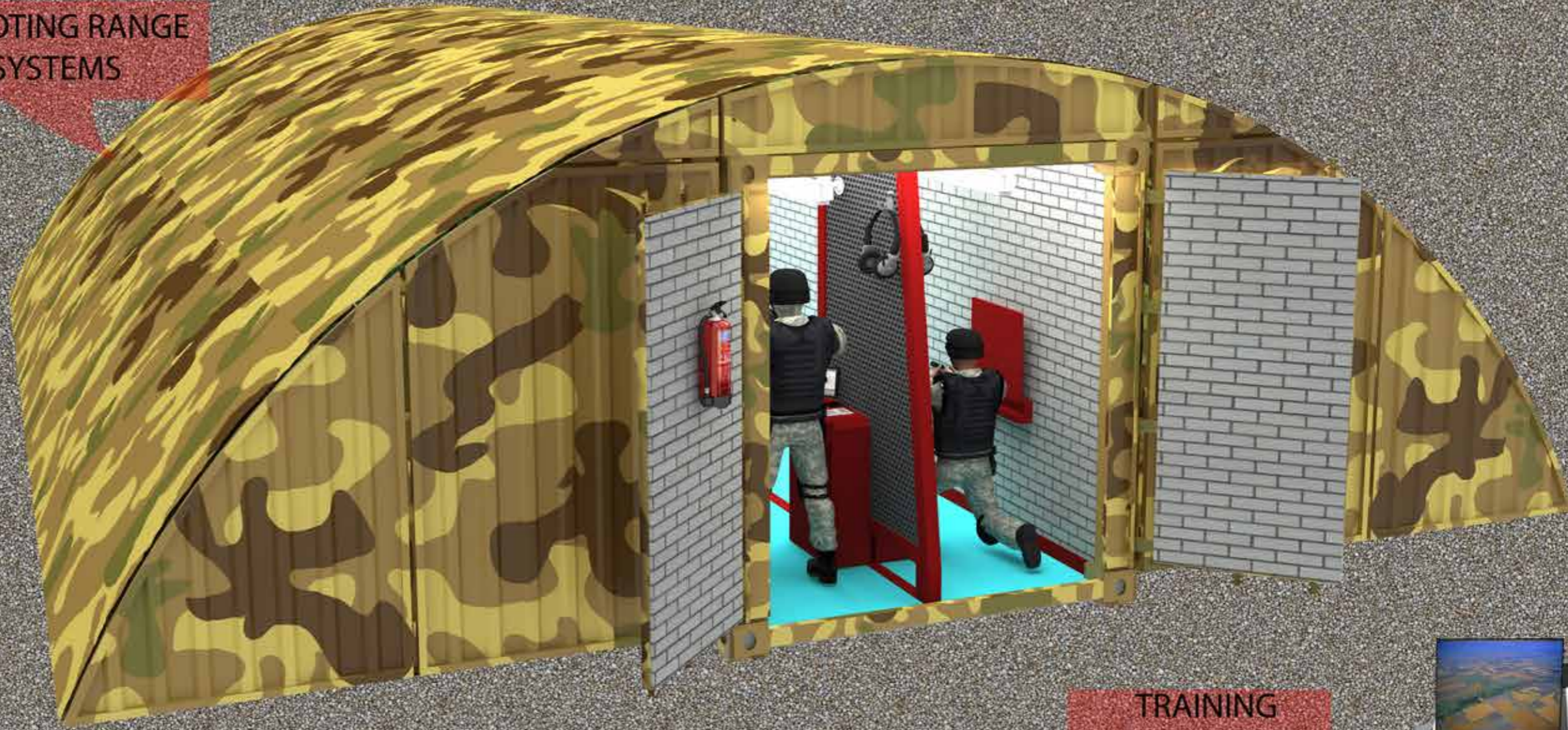
OPTIONS DEPENDING ON THE PLACE OF USE

- Generator
- Solar energy
- Air-conditioning
- Inverter
- External insulation (heat, noise, humidity etc.)
- Internal insulation (noise, humidity)
- Windmill (for electric power generation)
- Lightning rod
- CO₂ extinguishing system
- Explosion proof illumination





SHOOTING RANGE SYSTEMS

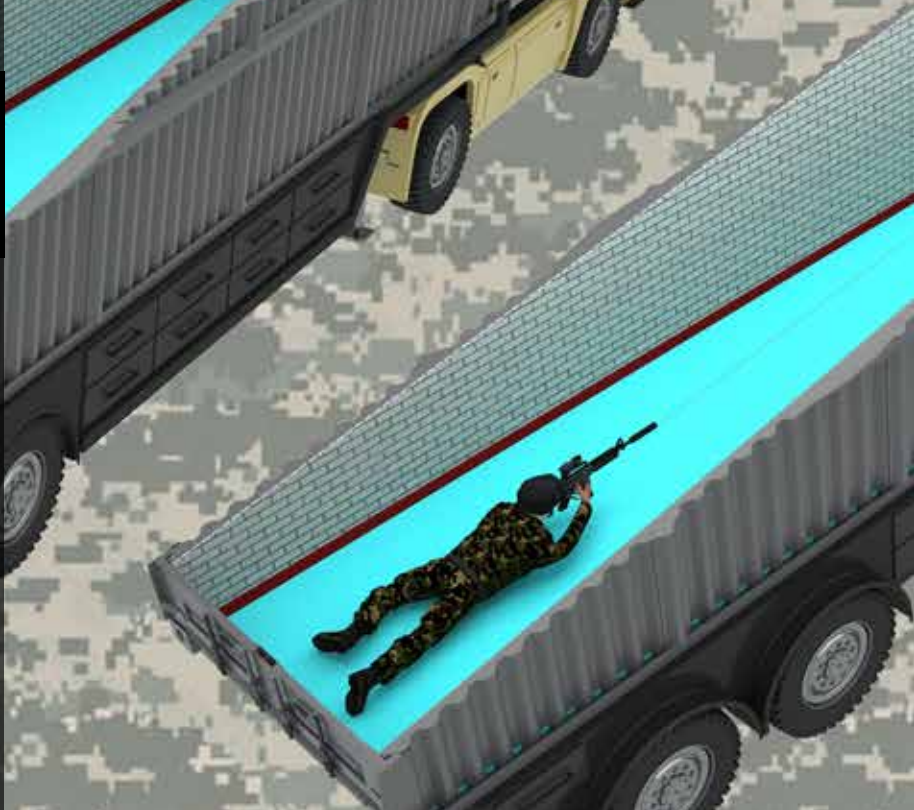


ARMORY SYSTEMS



TRAINING SIMULATOR CONCEPTS





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