

# 🛡️ Safe Handling Instructions for the Modular Shooting Barrier System (MSPS)

## Introduction

Thank you for choosing our product. Please read this manual carefully before first use and keep it for future reference whenever you may need to consult it.

This document contains important guidance on product safety, use, and maintenance. We wish you pleasant use!

## Abbreviations

- MSPS – Modular Shooting Barrier System
- PPE – Personal Protective Equipment

## 1. Purpose and scope of use

- **The Modular Shooting Barrier System (MSPS)** is a configurable set of barriers made of hanit® and plywood, using stainless steel screws, intended for shooting training at open outdoor ranges.
- **The system was designed for** shooting training in non-standard conditions, taking into account forced positions and operation in three-dimensional (3D) space. This design makes it possible to realistically recreate shooting conditions and significantly increases training effectiveness in scenarios that require dynamic movement between stations and the use of natural cover and terrain features.
- The system allows for rapid reconfiguration of the barrier layout (within minutes) and is fully tool-free.
- **MSPS is not a combat device and is not a ballistic barrier capable of stopping projectiles – it is a training mock-up intended solely for practicing shooting positions.**
- Use must comply with the shooting range rules.

## 2. User awareness and training goal planning

- Before each exercise, carry out a thorough analysis: determine what you want to achieve, which skills you want to develop, and what the training objective is.
- Increase the difficulty level of exercises gradually: start with simple layouts using barriers and progressively increase complexity.
- Use MSPS consciously: pay attention to spatial perception, angles of view, possible lines of fire, and potential hazards.
- Practice spatial awareness: identify safe routes of movement between obstacles, as well as approach points and areas where you can use the barriers.
- Take into account how the shooting position fits the surroundings and the scenario – consider how the barrier layout affects the effectiveness and safety of the training.

- Regularly verify your assumptions: if in doubt, stop the exercise, correct the setup, and practice it again.

### **3. Required personal protective equipment (PPE)**

- Safety glasses
- Hearing protection
- Protective gloves

### **4. Safe handling rules**

- For use at open or semi-open shooting ranges with stable, level ground.
- Use the system only as intended.
- Do not use damaged or unstable components.
- Do not make structural modifications.
- Climbing on the barriers and using them as a platform or as an element supporting body weight is prohibited.
- Do not overload the barriers – do not lean heavy objects against them or store equipment on them.
- Do not push excessively against the barriers (e.g., with your body or equipment) – they may lose stability and tip over.
- The beams mounted between CUBE modules are intended for installing additional elements (ladders, ropes) in order to create new shooting positions – do not climb on them to avoid falls, damage to the components, and overturning of the structure.
- When using MSPS, take weather conditions into account, especially the effect of wind – strong gusts may cause the elements to tip over or shift, so they must be secured or dismantled in windy conditions.
- Avoid contact with open flame and petroleum-based substances – MSPS components may be damaged or ignite at high temperatures.

### **5. Setting up barriers in a stacked configuration**

- Setting up barriers vertically makes it possible to create more elaborate structures, which translates into a greater number of exercise variants and shooting positions.
- In a vertical configuration, the system may consist of a maximum of two QUBE modules stacked one on top of the other and one extension placed on top.
- Make sure that the structural elements are connected correctly and that the whole structure is placed on a level and durable surface.
- If the vertical barrier arrangement may be prone to tilting or wobbling, use securing straps to fasten all components together firmly and securely.
- Take wind load into account – strong gusts may cause the structure to tilt or fall over; secure the components appropriately or refrain from setting the obstacles vertically.

### **6. System expansion elements – mounting beam with dimensions of $7 \times 7 \times 240$ cm with four securing straps**

- It connects CUBE-type modules, extending the layout and enabling the installation of accessories.

- Ladders, handles, and ropes may be installed on the beam, allowing suspended shooting stations to be created and positions to be practiced vertically or while suspended.
- The maximum load of installed elements must not exceed 20 kg.
- The installation of boards, panels, or other large surfaces requires caution in strong wind, because the increased drag force may cause the structure to overturn.

## 7. Shooting from inside the barriers

- Recommended for persons with advanced shooting experience.
- Carry out dry training before live firing.
- Make sure that the line of fire is free of obstacles.
- **WARNING:** take into account the height difference between the sight axis and the barrel axis.
- While shooting, check whether the barrier has shifted or rotated. If in doubt, stop the exercise and correct the setup.

## 8. ⚠ Risk of ricochets

- If a projectile hits the barrier, it may result in a ricochet – the rebound of the entire projectile, its fragments, or pieces of the material from which the barrier is made.
- A ricochet poses a serious danger to the life and health of the shooter, bystanders, and the surrounding area.
- Maintain an appropriate distance between the barrel and the barrier components.

## 9. Maintenance, storage, and conditions of use

- Product intended **for outdoor use only**.
- Do not use inside enclosed rooms – in accordance with the scope of the National Technical Assessment for Hanit® material.
- Regularly check the technical condition of the modules.
- Clean the barriers of dust and moisture.
- If dirty, clean with a soft cloth and a mild detergent.
- Recommended storage location: under a ventilated roof,
- Before the next use, assess the technical condition and replace worn components.
- **It is not recommended to leave the barriers in the rain for an extended time (e.g., several days)** – in order to preserve the appearance and durability of the materials and to avoid the development of fungi and mold, which may cover or impair the visibility of laser graphics.
- If the plywood is damaged, protect the damaged area with an appropriate varnish or wood preservative to prevent further deterioration and the effects of moisture.
- If components are permanently withdrawn from use, take them to a selective waste collection point or another place designated for the collection of bulky waste and plastics.

## Method of fastening barriers in a stacked configuration using securing straps.



Assembly of the extension with CUBE. Place the extension on the CUBE so that the legs of the upper element rest against the legs of the lower element. Pass the connecting strap through the board in the extension and the opening in the upper plate of the CUBE. Route the strap along the outer edge of the upper plate. Then fasten both elements together using the strap equipped



Assembly of two CUBE modules. Place one CUBE on another CUBE so that the legs of the upper one rest against the legs of the lower one. Pass the strap through the middle board of the upper CUBE, then pass the strap through the opening in the upper plate of the lower CUBE. Pass the strap over the edges of the upper plate and fasten both elements together with the strap, routing it over



Assembly of two CUBE modules and the extension. Place two CUBE modules and the extension vertically so that the legs of the upper elements rest against the legs of the lower element. Pass the connecting strap through the board in the extension and the opening in the upper plate of the CUBE. Then pass both ends of the strap through the opening in the middle board of the upper CUBE. Next, pass one end of the strap through the opening in the upper plate of the lower CUBE and the other end along the outer edge of the lower CUBE. Tighten the strap using the tensioning element.

## Method of fastening the mounting beam to Cube-type barriers and installation of additional accessories



Assembly of the beam to CUBE. Place the beam equipped with mounting straps on the upper top or lower boards. Pass both ends of the mounting strap through the middle opening. Then route both ends of the mounting strap along the outer edge of the upper plate or lower boards. Join both ends of the strap on the beam and tighten the strap using the tensioning mechanism.



Before installing additional elements to the beams, make sure that the CUBE module and the beams are set up stably and mounted correctly. Assess the size, weight, and shape of the element, as well as its possible wind resistance — incorrectly selected parameters may cause damage or the structure to overturn. Once you are sure that the element is suitable, fasten it to the beams using mounting straps with a tensioning mechanism to ensure a safe and secure connection.

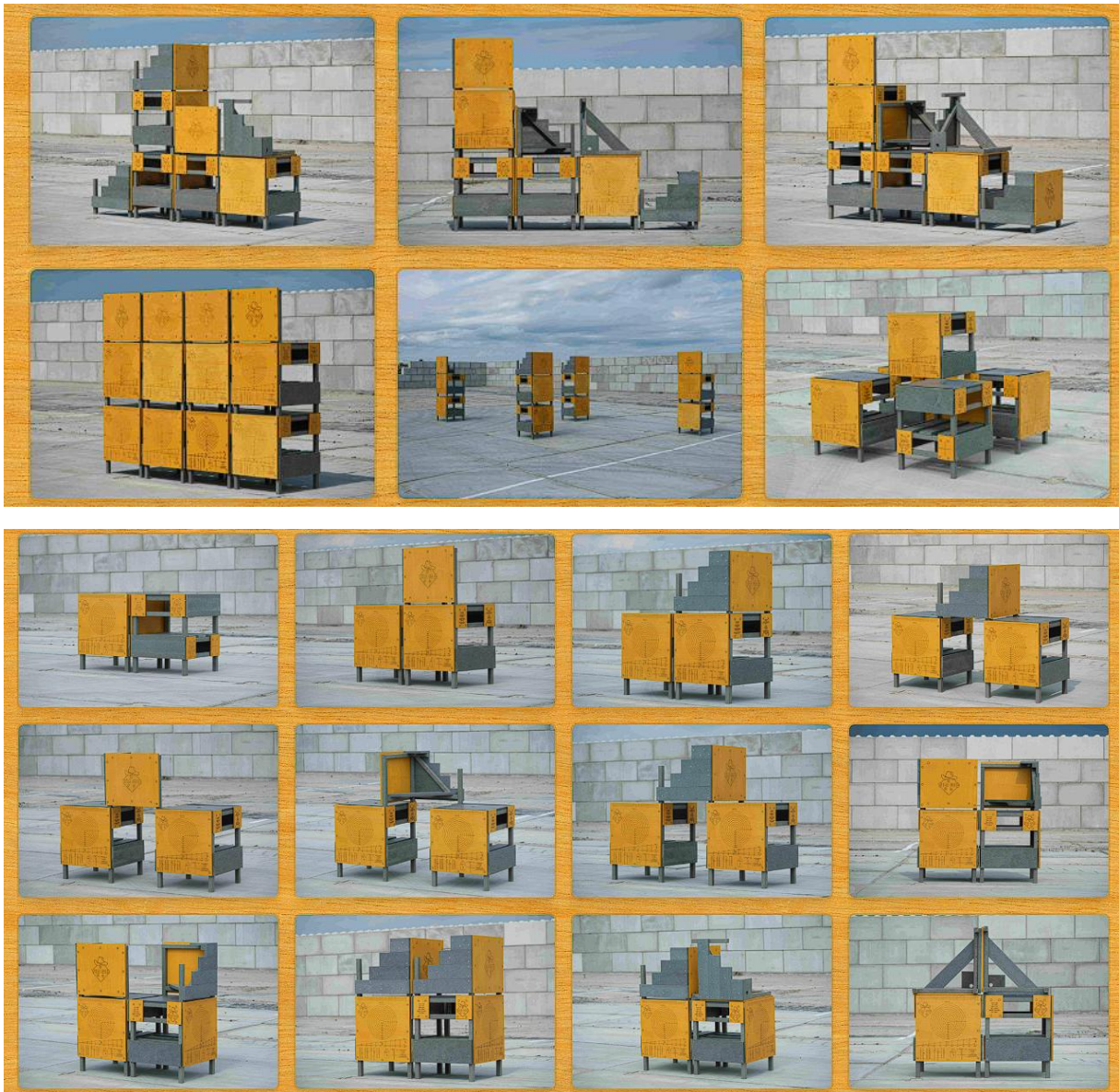
**Warning! For fastening, use certified straps in accordance with EN 12195-2, 25 mm wide and with a minimum load capacity of 200 kg.**

**Cube, Educational Cube:** weight 30 kg / height 71 cm, width 59.3 cm × 60.5 cm.

**Extension:** weight 15 kg / height 56 cm, width 58 cm × 58.5 cm.

**Mounting beam:** weight 6 kg / length 240 cm, cross-section 7 × 7 cm.

## Example barrier configuration



Ready-made configurations and photo galleries presenting the practical use of the barriers are waiting for you at [wildcubesolutions.com](http://wildcubesolutions.com). Visit our website and discover how many options this modular set offers.

**WILD CUBE SOLUTIONS S.C.**

**Tax ID: 5871753662**

**REGON: 542623030**

**Phone:**

**[607 649 538](tel:607649538)**

**Email:**

**[wildcubesolutions@gmail.com](mailto:wildcubesolutions@gmail.com)**