

Sayı: 58224147-TİM.OAİB.26.ARG4.2023/115-7878
Konu: Romanya Balistik Malzeme Üretimi

Ankara, 08/08/2023

Sayın Üyemiz,

T.C. Cumhurbaşkanlığı Savunma Sanayii Başkanlığı'ndan alınan bir yazıda, Romanya'nın bilinen bir atış poligonuna sahip olan şirketin EK'te özellikleri sunulan balistik malzemelerin üretimi için Türkiye'de bir şirket ile görüşmek ve iş birliği yapmak istedikleri belirtilmektedir.

Şirketin iletişim bilgileri aşağıda yer almakta olup, detaylı bilgilere EK'te yer alan dosyalardan ulaşılabilmektedir.

Eugen DIMA
CEO
www.ballisticsolutions.ro<<http://ballisticsolutions.ro>>
info@ballisticsolutions.ro
Telefon: +40 744 530 095

Bilgileri ve gereği rica olunur.

Musa DEMİR
Genel Sekreter

EKLER:

1. Balistik Malzeme Broşürleri (10 sayfa)
2. Brochure-shooting-ranges small (6 sayfa)
3. Tactical Life En Presentation (6 sayfa)
4. POLIGON MOBİL – MOBILE SHOOTING RANGE (14 sayfa)

Ayrıntılı bilgi için: İftar Hatice İrem Biga - Uzman Yardımcısı

Ceyhun Atuf Kansu Cad. No:
120

06520 BALGAT ANKARA

Tel : (312) 447 27 40

Faks : (312) 446 09 11

info@turksavunmasanayi.gov.tr

www.turksavunmasanayi.gov.tr
www.ssi.gov.tr



Product Information

Regupol® Shooting Blocks

Revision date: 27/02/06

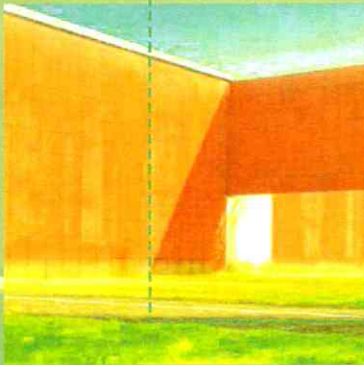
Printing date: 02/09/15

1. Application	Shooting ranges
2. Product	Name of Product : Regupol® Shooting Blocks Colour : redbrown, black or green Material : rubber fibres (buffing) Size : 500 x 300 x 200 mm
3. Technical Data	1.) Weight per piece : 25.0 kg 2.) Tensile Strength : 1.45 N/mm² DIN 53 571 Specimen B 3.) Elongation at Break : 95% DIN 53 571 Specimen B 4.) Tear Resistance : 11.0 N/mm DIN 53 515 Graves 5.) Heat Resistance : up to 80° C, shortly up to 100° C 6.) Fire Resistance : Class B2 DIN 4102 Approx. 10 mm of an element will be splitted off and punched out as per the corresponding standard in order to determinate the test results of no. 2, 3 and 4.
4. Notice	The above mentioned test data are based on periodical laboratory testing of test specimen taken from the actual manufacturing process and show the average values measured. The publishing of these technical data does not relieve the user of the necessity to test the relevant product for physical fitness based on a specific application. As the final use and application of our products are out of our control, this is the sole responsibility of the buyer / end user. All of our products do carry a warranty against manufacturer's defects according to our standard terms and conditions of sale. Due to deviations in raw materials, external influences like temperature and humidity variations, and the fact that this data relates to a resilient material, the above mentioned values are subject to vary.

Regupol®

Shooting Ranges

Reliable
anti-ricochet
protection



 **BSW**

The System that Provides Reliable Protection from Ricochets

It is undeniable that top-class marksmen need top-class protection. For more than 40 years BSW's high-quality **Regupol®** Safety Elements and Flooring have been providing optimal protection from ricochet, rebounds and bullet fragmentations.

BSW's universal and complete solutions are available for all danger areas in shooting ranges, such as floors, walls, ceilings or bullet traps. Together with reliable partners BSW will work out the perfect solution for your shooting range – individually tailored to the respective conditions. Contact our friendly BSW customer consultants to find out whether **Regupol®** standard or customised products are most suitable for your particular shooting range.

Regupol® Safety Elements were especially developed for installation in shooting ranges for the police, hunters, armed forces, marksmen clubs, private shooting clubs and security services. The number of facilities equipped with **Regupol®** Safety Elements speaks in BSW's favour.

Whether for indoors or outdoors, whether on shooting ranges with one main shooting direction or in 180° shooting ranges – **Regupol®** Safety Elements have been meeting the quality requirements placed on these products for over 40 years. The range of **Regupol®** Safety Elements includes components for both indoor and outdoor applications: safety flooring, wall and ceiling covering, shooting blocks, fragmentation rubber sheets and custom-built components.



If cars are required for practise, **Regupol®** Safety Flooring bear vehicles without any difficulty.

The Benefits

- Reliable protection from ricochet and bullet fragments
- Offers protection even under unfavourable angles of impact
- Absorbs projectiles and calibres up to 7,000 joules
- Elastic material means no visible bullet holes
- High resistance to wear even under intensive use
- Longest service life in comparison with other currently used materials
- Different surface colours (flooring)
- Suitable for outdoor applications
- Sound-absorbent
- Slip-resistant
- Safety flooring
- Can be wet cleaned
- Ongoing quality monitoring during production and installation
- Weather and UV resistance
- Continuous customer support by BSW
- Special equipment available, depending on the nature of the shooting range and the type of ammunition used

References (Extracts)

GSG 9 shooting range in Sankt Augustin-Hangelar (Germany)
GSG 9 outdoor range in Wahnerheide (Germany)
KSK shooting range in Calw (Germany)
Police Training Academy (PAI) in Biberach, Eutin, Selm Bork, etc. (Germany)
Police headquarters in Frankfurt am Main (Germany)
Police headquarters in Düsseldorf (Germany)
Police headquarters in Rosenheim (Germany)
Customs school in Sigmaringen (Germany)
Security service shooting ranges of the German states' central banks in Düsseldorf, Erfurt, Frankfurt am Main, Leipzig, etc.
Shooting ranges for police, military and other security service in Abu Dhabi, Dubai, Estonia, Italy, Kuwait, the Netherlands, Norway, Saudi Arabia, Singapore, Taiwan, Turkey, etc.

The list contains only a small selection of shooting facilities equipped with **Regupol®** Safety Elements. Many special designs have been developed to meet demanding requirements for training of combat, crime and terrorism situations. Solutions for ballistic protection as in stairways, multi-storey staircases or interiors of passenger airlines are only a few examples.

Regupol® Safety Flooring FH

Our **Regupol® Safety Flooring FH** possesses the best possible anti-ricochet protection from projectiles up to 7,000 joules. Three layers of polyurethane on top of the tiles provide a hard-wearing 2-mm-thick seamless surface. **Regupol® Safety Flooring FH** is applied in situ in liquid form by skilled BSW staff, in order to guarantee top-class quality and an even, seamless surface. The base layer consists either of elastic tiles made of PUR-bonded rubber fibre material or if required of **Regupol®** rolls type 7619/II. Its resistance to all kinds of mechanical influences makes this a hard-wearing floor surface that will be around for decades. This surface is available in numerous different colours. See our colour chart on page 250.

Regupol® E43 Elastic Tiles

PUR-bonded high-quality rubber fibres with a triple PUR layer and a wear-resistant surface coating

Standard Dimensions

1,000 x 500 mm per tile

Dimensional tolerances: Length/Width $\pm 1\%$

Thickness ± 2 mm

Thickness

Black base mat 43 mm, PUR layer 2 mm; other thicknesses on request

Weight per m²

approx. 40 kg/m²

Regupol® 7619/II Elastic Layer

Instead of **Regupol® Elastic Tiles**, rolls made of **Regupol®** can also be applied as sub-base. **Regupol®** rolls are available in different thicknesses.

Surface

Seamless sealed

Colour Wear Layer

Black base mat, PUR coated surface available in many different colours, see colour chart on page 250.

Cleaning

Easy to clean, wet cleaning is also possible

Installation

Glued onto levelled, dried screed or mastic asphalt; other bases on request

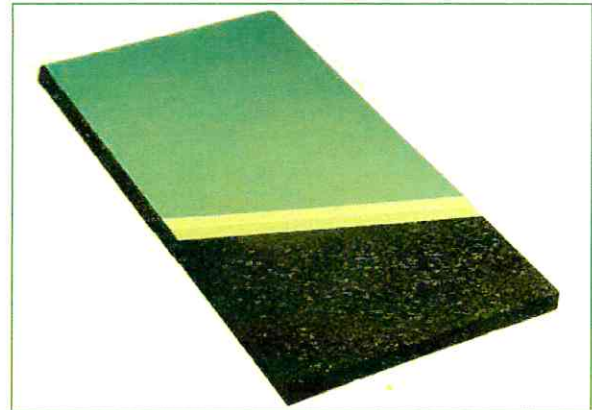
Test Result Rebound and Ricochet Behaviour

Projectiles fired from angles of between 10° and 90°: none of the projectiles fired resulted in rebounds or ricochet and therefore presented no danger to the marksmen. The projectiles or projectile fragments were all successfully absorbed by the **Regupol® Safety Flooring**. Certified by the German Proof House in Ulm.

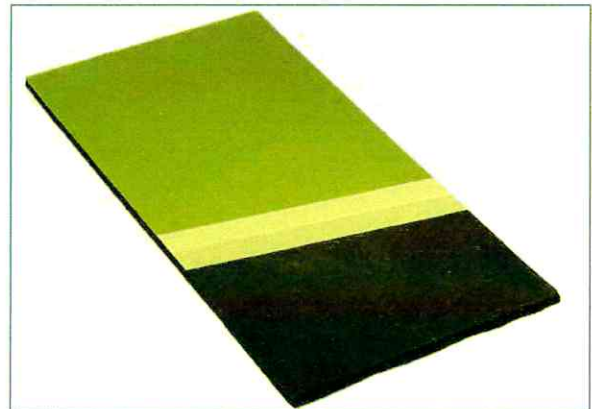
Test Result Reaction to Fire
C_{fl}-s1 in line with DIN EN 13501-1 difficult to ignite. Fulfils the requirements of German National Technical Approval.

Test Result Electrostatic Behaviour

In line with DIN 54346. Certified by TFI (Textile and Flooring Institute GmbH).



Sub-base: **Regupol® Elastic Tile E43**



Sub-base: **Regupol® 7619/II Elastic Layer**

Regupol® Elastic Tiles E43/E70

Regupol® Elastic Tiles can be used to protect walls, floors and ceilings. They prevent dangerous ricochet and rebounds in the inner area of galleries. **Regupol® Elastic Tiles** possess outstanding weather and wear resistance. Completed by their impact on sound insulation they are virtually predestined for both indoor and outdoor range applications.

Regupol® Elastic Tiles E43 are qualitatively identical to our **Regupol® Safety Flooring FH**. **Regupol® Elastic Tiles E43** prevent rebounds of penetrated projectiles so they are perfectly suited as anti-ricochet protection.

Standard Dimensions

1,000 x 500 mm per tile

Dimensional tolerances: Length/Width $\pm 1\%$

Thickness ± 2 mm

Thickness

43 mm

70 mm

Weight per m²

approx. 35 kg/m²

approx. 56 kg/m²

Colours

Red Brown, Green, Black

Installation

Nailed or screwed into wall studs or wooden slats.

Test Result Reaction to Fire

E in line with DIN EN 13501-1 normal combustibility

Sound Insulation

Test report by "Institut für Schall- und Wärmeschutz" (Institute for Sound and Thermal Insulation) in Essen, Germany; in accordance with DIN EN 20354

Proof house
tested



The highly compacted material structure of our **Regupol® Elastic Tiles E43**.



The GSG 9 shooting range in Hanglar (Germany) is completely covered with **Regupol® Elastic Tiles E43**.

Regupol® Elastic Tiles RG 520

Regupol® Elastic Tiles RG 520 have been especially developed to collect slow projectiles, such as in front of bullet traps. Thanks to their unique material density projectiles penetrate only with a low kinetic energy into the tiles and ricochet is reliably prevented.

Standard Dimensions

1,000 x 500 mm per unit

Dimensional tolerances: length/width $\pm 1\%$

Thickness ± 2 mm

Thickness

43, 60, 100 mm

Weight per m²

approx. 22.5 kg/m² (at 43 mm thickness)

approx. 31.5 kg/m² (at 60 mm thickness)

approx. 52 kg/m² (at 100 mm thickness)

Colours

Red Brown, Green, Black

Installation

Nailed or screwed into wall studs or wooden slats.

Test Result Reaction to Fire

E in line with DIN EN 13501-1 normal combustibility



The material structure of our Regupol® Elastic Tiles RG is distinctly more open compared to our Regupol® Elastic Tiles.

At our website www.berleburger.com you can download all our Proof Test Reports and other corresponding documents.

Regupol® Shooting Blocks

Regupol® Shooting Blocks are perfectly suited for use in bullet traps. They can be applied in various layers or even staggered in any height and depth. **Regupol® Shooting Blocks** offer a wide range of application possibilities. Each bullet trap can be designed to suit individual requirements. Alternatively, specially designed constructions based on **Regupol® Elastic Tiles** can also be installed.

Standard Dimensions

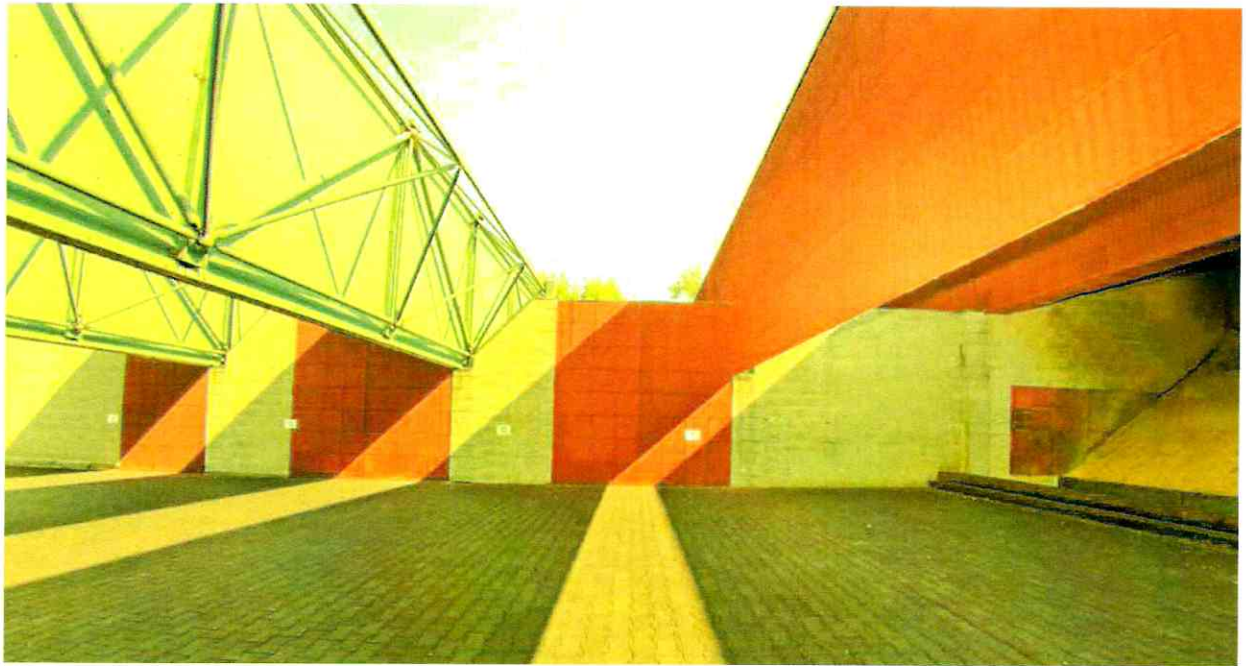
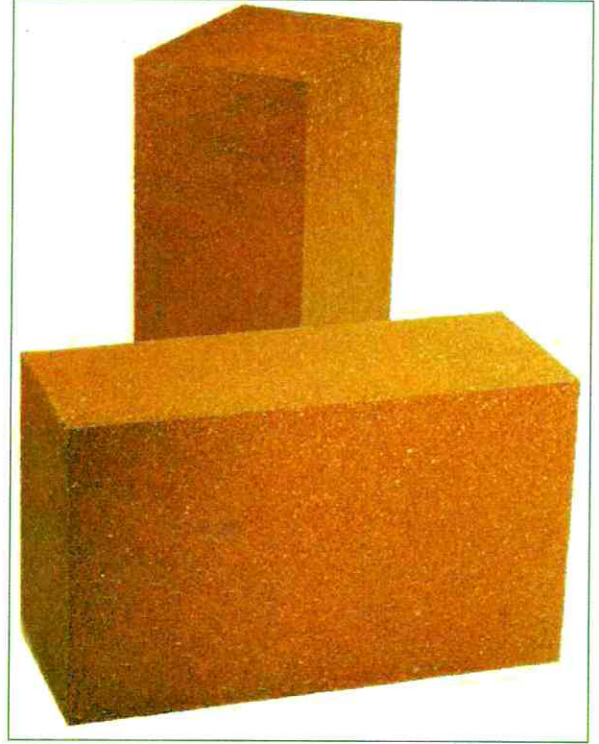
500 x 300 x 200 mm per unit

Weight per m²

25 kg

Colour

Red Brown



Regupol® Fragmentation Rubber Sheet

Regupol® Fragmentation Rubber Sheets serve as the primary bullet impact area and may be built as part of a backstop immediately behind the targets. **Regupol®** Fragmentation Rubber Sheets are supplied in rolls and can be cut to almost any required size. They are available in three different thicknesses.

Width

1,250 mm per sheet

Thickness

10, 12, 15 mm

Colour

Black



The GSG 9 shooting range in Wahnerheide (Germany) is equipped with **Regupol®** Elastic Tiles and **Regupol®** Interlocking Pavers.





Whether for indoor or outdoor applications Regupol® Safety Flooring and Elastic Tiles are reliable components in shooting ranges for police, military, security forces and demanding marksmen.

Regupol® Interlocking Pavers

Regupol® Interlocking Pavers are made of PUR-bonded rubber fibres and granules. They are ideal suited for outdoor applications.

The compact pavers are easy to interconnect and can easily be combined with common Behaton concrete pavers due to their shape and measurements. **Regupol® Interlocking Pavers** are perfectly suitable for all outdoor areas, especially for access paths, shooting ranges, etc. The compact pavers are extremely resilient and durable even under tough conditions, including vehicular traffic. The **Regupol® Interlocking Pavers** are available as "starters" and "half pavers".

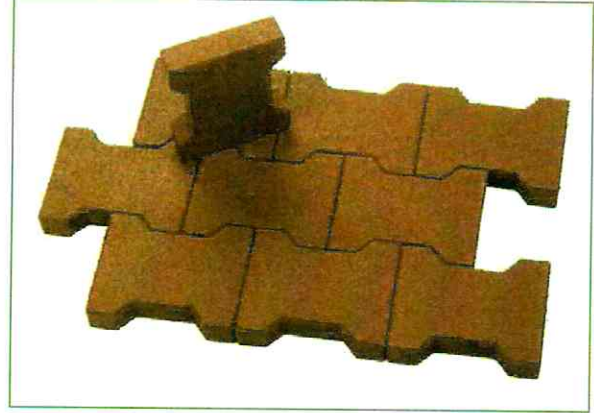
Standard Dimensions
200 x 160 mm per unit

Thickness
43 mm

Weight per m²
38 kg/m²

Colours
Red Brown, Green, Black

Installation
On top of a well compacted and levelled crushed stone base.
Sand is used for the joints between the pavers.
Alternatively: glued onto concrete or asphalt sub-base.

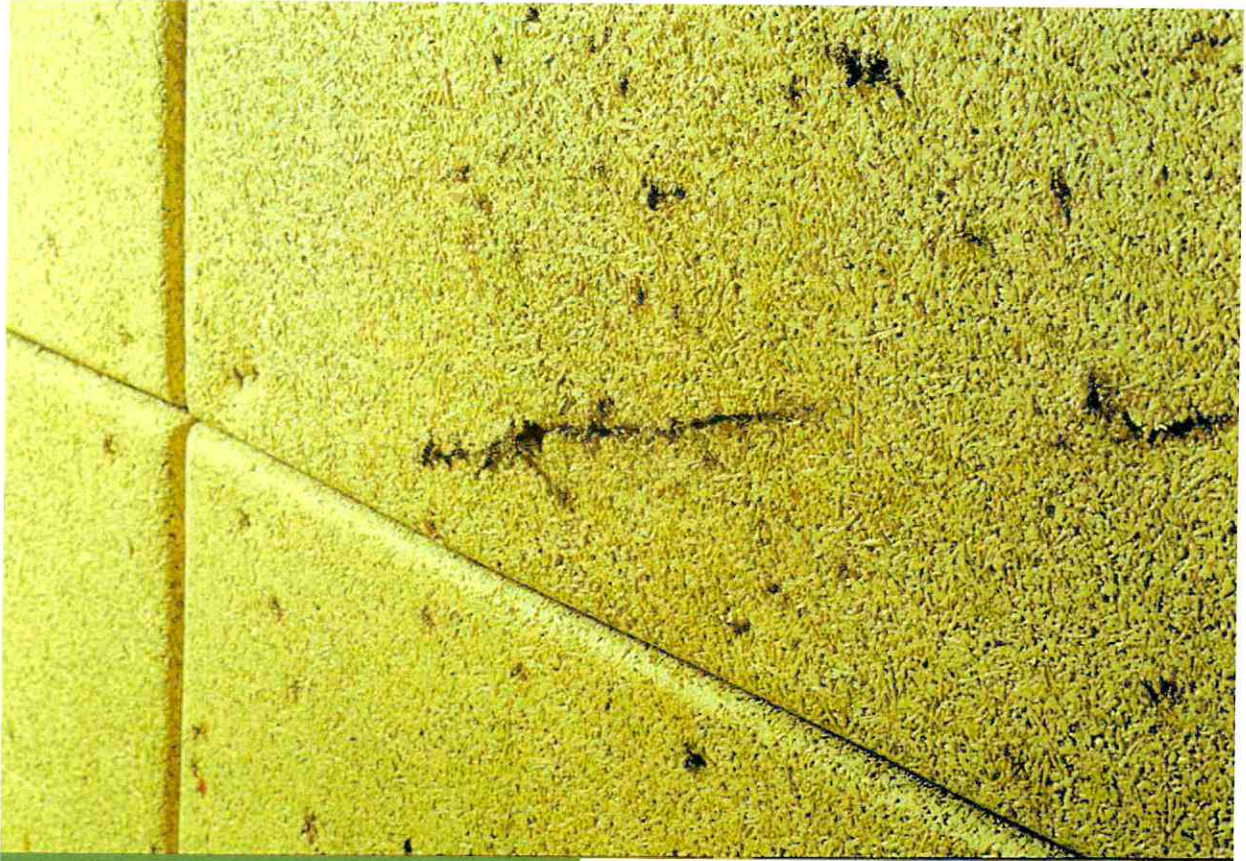
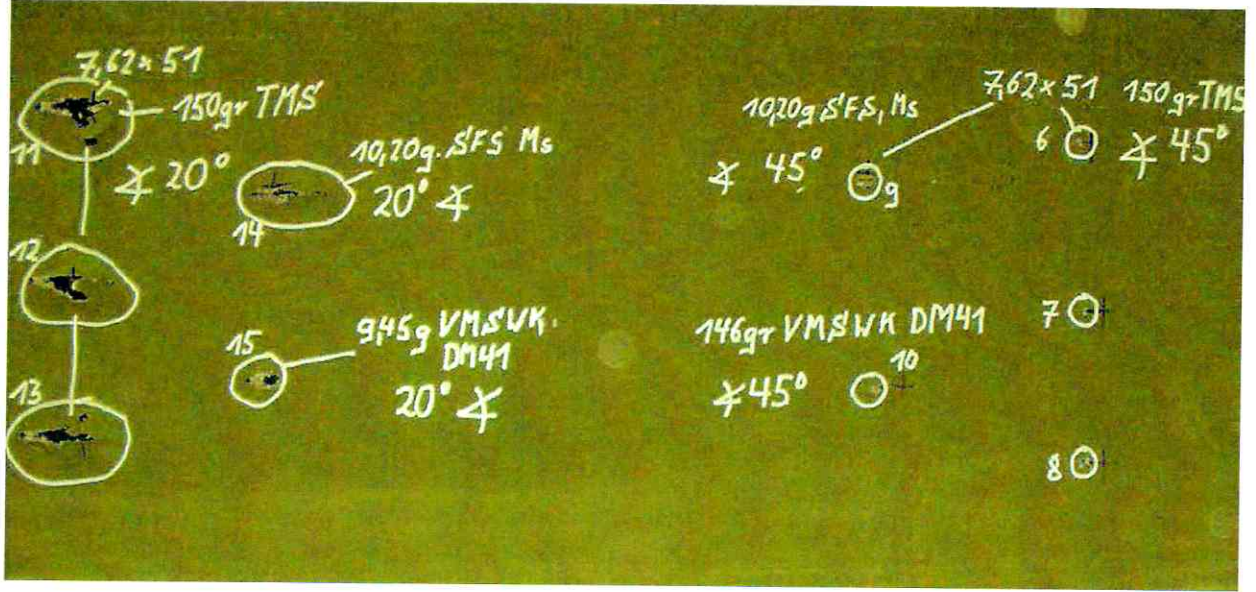




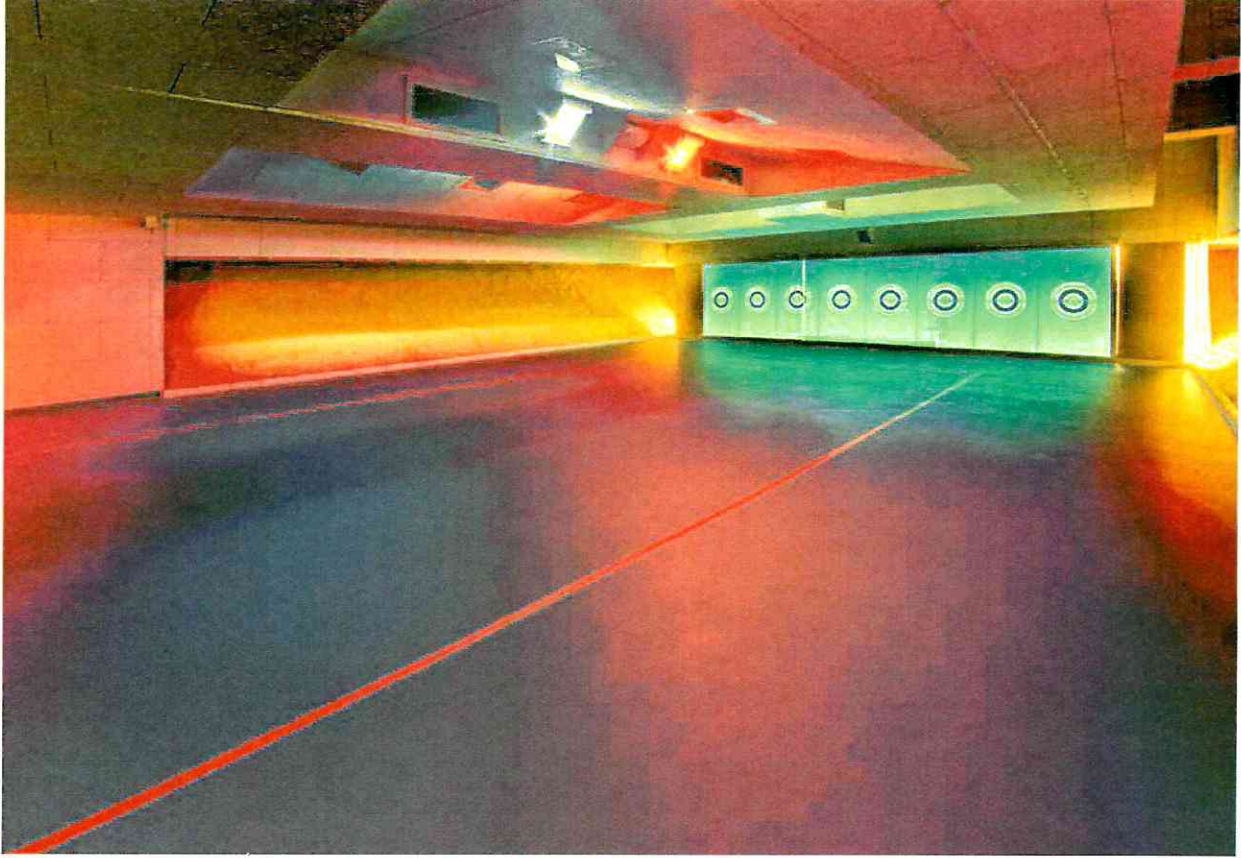
Whether for indoor or outdoor applications **Regupol® Safety Flooring** and **Elastic Tiles** are components in numerous shooting ranges for police, military, security forces and demanding marksmen. Federal police shooting range in Berlin (centre), MSZU- Miller shooting range in Ulm (Germany).



The indoor shooting range at the Police Headquarters in Frankfurt (Germany) is covered with **Regupol®** Elastic Tiles. The SEK/MEK indoor shooting range in Nuremberg (Germany) is also fitted with **Regupol®** Safety Flooring.



Theory and practice:
Extensive proof tests are a prerequisite for safety in shooting areas (above).
Regupol® Elastic Tiles have been reliable components in shooting ranges
for decades as shown in the picture below – numerous bullet holes in the
wall coverings at a GSG9 indoor range – for more than 25 years.



Regupol® Safety Flooring at a pistol shooting range (above) and at Düsseldorf's police headquarters.

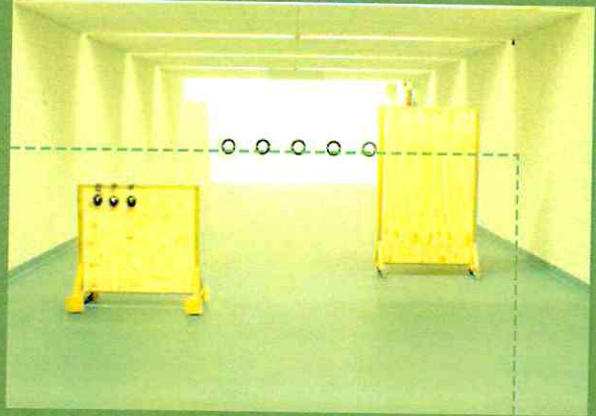
Notes

Your contact to BSW GmbH

BSW
Berleburger Schaumstoffwerk GmbH
Am Hilgenacker 24
57319 Bad Berleburg
Germany

Phone +49 2751 803-0
info@berleburger.de
www.berleburger.com

www.bsw-sportsflooring.com



The technical information given in the documents are guideline values. They are liable to manufacturing tolerances, which may vary depending on the type of underlying properties. The currently valid versions of this information are provided on our internet pages and in the PDF versions of this catalogue. The PDF versions are available to download from our website. We do not assume liability for spelling or printing errors.





TACTICAL LIFE
ROMANIA

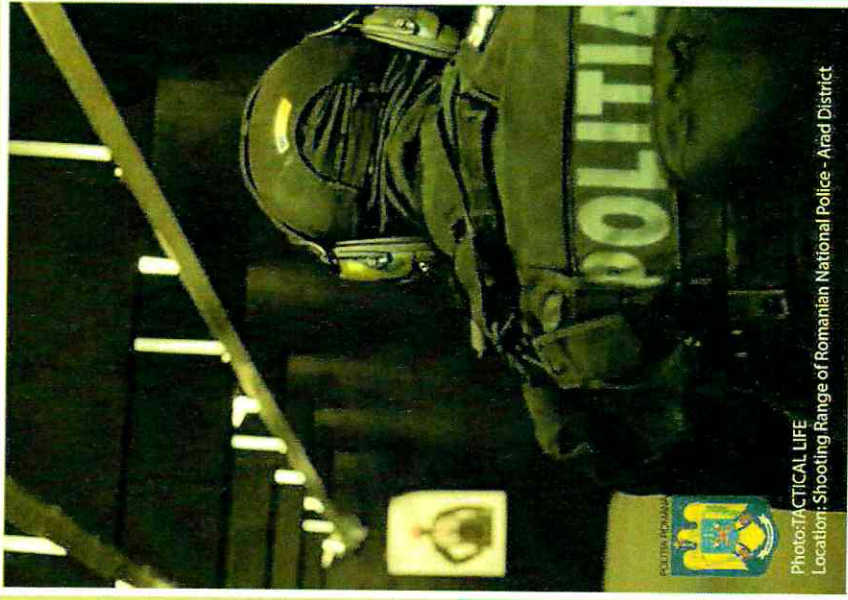


Photo:TACTICAL LIFE
Location: Shooting Range of Romanian National Police - Arad District

PROFESSIONAL TURNKEY SOLUTIONS FOR MILITARY OR CIVILIAN SHOOTING RANGES

CONSULTANCY / RANGE DESIGN / SUPPLY OF CERTIFIED EQUIPMENT AND MATERIALS / EXECUTION /

Member of

BALLISTIC SOLUTIONS
GROUP ROMANIA

Intrarea Poligonului nr 1, JOITA

T : + 40 744 530095

E : info@ballisticsolutions.ro



SCAN ME

Intrarea Poligonului nr 1, JOITA

Jud. GIURGIU - ROMANIA

+ 40 744 530095

info@ballisticsolutions.ro

www.ballisticsolutions.ro



CONTACT



► Ballistic Teaser

TACTICAL LIFE INTELLIGENT ENGINEERING FOR EXTREME PROJECTS

Each project is unique for us. We have the necessary experience to quickly understand the professional needs of our customers.

WE MADE:

- | | |
|---|-----------------------------|
| SHOOTING COMPLEX
"ANATOLIE SALCEANU" | JOITA (private) |
| URBAN WAREFARE
TRAINING FACILITY | Cincau
(Romanian S.O.F.) |
| PRESIDENTIAL GUARD UNIT TRAINING
FACILITY, KILL HOUSE AND
OUTDOOR SHOOTING RANGES | |
| INDOOR STATE-OF-THE-ART
OF NATIONAL POLICE INSPECTORATE
OF ARAD COUNTY | |
| CONSULTANCY AND DESIGN FOR
TRAINING FACILITY - SPECIAL
OPERATION FORCES OF ROMANIAN ARMY
"BUREBISTA" | Vladeni S.O.F. |

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► Ballistic Teaser

MAKE A SHOOTING RANGE IS AN SPECIALIZED INVESTMENT

The technical requirements to be met in the shooting activities are unique and require careful planning. We encourage those who wish to collaborate with us to contact us from the first stages, so that we can offer assistance and guidance especially for critical works and installations.

The first step is to visit the beneficiary's location and later we offer recommendations based on our initial assessment. Once the construction plans or sketches are drawn up, our consulting and expertise system can recommend the best equipment options.

We offer turnkey solutions for the most demanding and sophisticated training spaces. Our technicians are permanently on the ground, in all phases of execution, to carry out the complete installation of the equipment from the beginning to the end of the project. This procedure will ensure that the installations and equipment are installed according to the technical specifications and will allow you to have permanent control over the investment.

The range of products and services offered by TACTICAL LIFE includes everything necessary for the complete equipment of a training and training space. This includes simple or complex target control systems, several models of ballistic targets, deflectors and separators of firing lines, simulators of virtual scenarios based on lasers or with real weapons and ammunition, additional systems and equipment dedicated to military or civilian ranges.



▶ SCAN ME

Planning and design considerations for firing ranges.

Before any planning and design, in order to start as realistically as possible from the beginning, it must be determined what type of shooting activity will take place in the new range. The use of a shooting range can range from static target shooting for basic training to highly sophisticated tactical training sessions where shooters are mobile, firing from variable distances in a dynamic regime. The type of activity and the configuration of the space dictate the design requirements and equipment selection.

The biggest cost is found in the arrangement or construction of a dedicated building for the training ground, and this cost can escalate if the planning is done inadequately. For example, if the construction or renovation of a building to house a training ground is done before consulting a specialist in the field, you may find that the structure is not suitable and expensive modifications may be needed later. Thus, space is the first consideration when planning a shooting range.

STRUCTURAL CONSIDERATIONS

For us, ballistic protection is a crucial element in the arrangement of any space where firearms will be used. This protection cannot be expressed in minimum or maximum values, it simply must be adequate for the current activities in the range. TACTICAL LIFE specifically designs active and passive elements that retain direct or accidental hits with the aim of maintaining the structural integrity of the building and not favoring dangerous ricochets.

INTERIOR ARRANGEMENTS

• VENTILATION (HVAC)

Un sistem de ventilație adecvat reprezintă o valoare substanțială din costul de amenajare a unui poligon. Standardele de sănătate trebuie să fie recunoscute și respectate atunci când se proiectează sistemele de ventilație. Statul nostru este să va orientăm spre echipamente de ventilație conforme, pentru a evita probleme ce pot să atingă securitatea și sănătatea muncii.

• LIGHTING

Two types of lighting are required in the firing range: general lighting and target lighting. Of course, certain special requirements can lead to dynamic lighting solutions in order to increase the degree of difficulty of the exercise. The IR light for shooting with AVN type devices is also an option that should be considered.

• SOUNDPROOFING

One of the benefits of installing rubber plates and blocks is the elimination of noise associated with bullet impact and deceleration.

THE WALL

The walls of the polygon must be of poured concrete or solid brick. For structural protection, cladding with ballistic resistant steel will be used.

THE FLOOR

The most suitable type of floor for driving ranges is a smooth floor. The floor will receive a lot of fire hits, so a smooth surface results in less irregular ricochets.

THE CEILING

A series of transverse baffles is usually effective. The location is determined by the ceiling height, the length of the range and whether a shooting activity will be carried out in the depth of the range.

Photo: TACTICAL LIFE
Location: IPJ ARAD
Equipment: Shooting Stall

Photo: TACTICAL LIFE
Location: IPJ ARAD
Equipment: Custom made range control console

WE MADE: DEDICATED EQUIPMENT

The equipment offered by TACTICAL LIFE for use by law enforcement or security forces is flexible to allow for both basic training and advanced reactive exercises.

MOVING TARGETS

"Target retrieval systems"

The target carrier system provides a practical and safe method of moving targets around the range without requiring shooters to leave the firing line.

The type of firing exercise planned for the range will determine the appropriate target retrieval system. TACTICAL LIFE specialists and technicians have the necessary experience in the field of range automation.

SPECIAL AUTOMATIC TARGETS

SYSTEMS WITH MILITARY CERTIFICATION

The rotating target and tower provides an advanced training function by exposing friend/foe due to thermomounted rotating mechanisms. The system works independently or in conjunction with a computerized command console.

This advanced system has superior technical facilities such as impact detection, tactical lighting, communication with other neighbouring targets, operation according to a predetermined or random scenario.

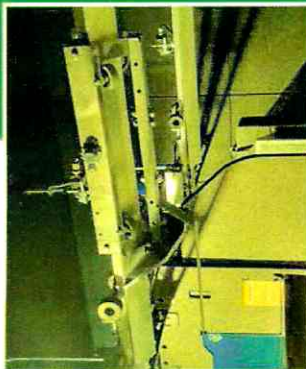
SHOOTING STALL

FULL BALLISTIC PROTECTION

The shooting operator organizes the shooting line into defined shooting positions and provides safety to the individual shooter. These equipments ensure the shooter's protection against the adjacent firing positions by excluding the danger of accidental hits.

The firing separators can be equipped with individual light, microscope light, deflectors for the blow from the impact of the pipe, ballistic glass, retractable shelf.

There is reason to believe that the firing range is a challenging environment where the operator is constantly exposed. That being the case, we make every effort to respond to specific concerns. Our main concern over the years remains the direct safety of the shooters and the employees operating within the ranges where we have built or set up.



"LIVE FIRE" OR LASER SIMULATOR

The training solutions based on virtual scenarios offered by TACTICAL LIFE are the ones that form the basis of the international standard for the interactive use of force and the evaluation of tactical reasoning. We have hands-on experience with the world leader in firearms or IR/laser training simulators for government, military, law enforcement or police forces around the world.

Our scenarios are CUSTOMIZABLE and offer safe and realistic training options that allow you to effectively train your teams in both the use of firearms and less lethal force options such as stun guns.

We have both virtual and live-fire simulation training options available. We are constantly working to improve the capabilities of our systems, so you can be sure that you are investing in a state-of-the-art solution that will perfectly suit your needs for years to come.

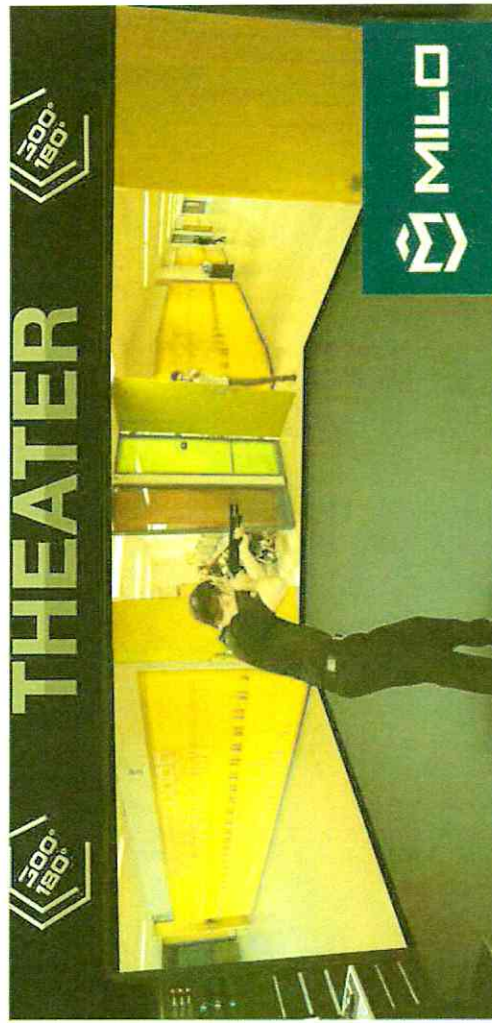


As much as the training is the more realistic, the results are better and more efficient.

Optional Course Designer software allows instructors to create new fully interactive video scenarios and complex exercises in minutes. No other system can provide a more realistic and adaptable training environment in one ready-to-use package.

THEATER

300° 180°



MILO

01. ADAPTIVE

The virtual space allows the realization of many operational scenarios available with a simple push of a button.

02. REALISM

By using real weapons from the environment, with real ammunition, the simulator raises the degree of realism close to current operational situations.

03. EFFICIENCY

One of the major advantages of the simulator is that it provides instant feedback on the tactical judgment and adaptability of the evaluated one.

04. ECONOMIC

The technical limitation and high costs of classic constructions versus tens or hundreds of scenarios stored on the hard drive ready to be launched with a single click.

ABOUT BALLISTIC PROTECTION

The principles that guide ballistic protection materials can be divided into two categories: impact energy absorption and impact energy redistribution. A protective material should absorb the energy of a projectile before it causes damage. In other words, the principle according to which ballistic protection works is based on the conversion and rapid dispersion of the kinetic energy contained in a projectile into deformation energy on the surface of the ballistic armor.

Deceleration

Ballistic steel decelerates and stops the projectile by dissipating its kinetic energy along the plane of the impacted material.

Shock wave

When a bullet hits a ballistic steel plate, two waves, namely longitudinal waves and transverse waves - are propagated from the point of impact to the outer surface of the plates.

Plastic deformation

Following the impact of a bullet, the ballistic steel absorbs and disperses the impact energy, which is transmitted to the steel plate by the projectile, causing the bullet to deform.

Ricochets

Theoretically, a bullet striking a flat steel surface perpendicular to its line of travel will shatter into thousands of pieces. The ricochet phenomenon occurs when the impact angle decreases and this process must be controlled by adding certified materials in this regard.

Contamination

Overexposure to lead is poisonous and can cause serious health effects. To protect people from exposure to lead in the shooting range, TACTICAL LIFE evaluates and proposes the most suitable materials for this purpose.



TEST BALLISTIC

ARMOR®

Always on the safe side of the armor.

If an armored steel plate is the only thing standing between a human being and a bullet traveling at 925 m/s, it had better be Armor® steel plate.

Whether you are building a civilian or military range, an armored vehicle, a reactive target or structural protection, Armor® is a bulletproof steel with a proven power to protect lives and critical materials.

SSAB Sweden produces special steels on the basis of technological processes unique in the world.

BALLISTIC STEEL

Armor® and Ramor® steels are widely used for the protection of people and valuables in all types of environments around the world. They can withstand the extreme forces generated by projectiles hitting steel at high speed.



SSAB ARMOR STEEL.

The steel you need between you and risk.

Armor® and Ramor® steel plates have fewer impurities in their structure than most other steels. The low carbon content makes the material easy to process. The uniform properties of ballistic steels ensure reliable performance in use and provide predictable strength in the work environment. The guaranteed thickness, flatness and bending properties contribute to the realization of high-performance armor for ballistic protection projects where we have a supply, machining and installation contract.

Guaranteed stopping power

Armor® steel protection plates can be supplied with guaranteed ballistic properties. Every quality and thickness is tested to the most extensive and strict international standards.

In addition, we cooperate with leading independent ballistic test laboratories to offer steel sheet certified according to the standards in force.

SSAB

HARDOX

Intended for the industrial environment, for certain military applications, Hardox has been tested with very good results. However, this product is not ballistic certified, being a budget solution in certain projects.

ARMOX

Human life has been protected in the world's most dangerous environments by Armox® for many decades. The qualities of this steel have been constantly developed over the years.

RAMOR

What was considered as a standard thickness for an armored plate 30 years ago, through RAMOR, was obtained the reduction to half the thickness with the same level of guaranteed protection.



TEST BALLISTIC



Photo: TACTICAL LIFE
Location: FORT XI POPESTI - LEONARD
On picture:
Ballistic protection of 380 degree tactical range

Photo: TACTICAL LIFE
Location: FORT XI POPESTI - LEONARD
On picture:
Ballistic protection of 380 degree tactical range

BALLISTIC RUBBER SAFETY ELEMENTS

The ricochet – The constant danger

The ricochet is an inevitable phenomenon in shooting ranges. Our mission is to keep this side effect of shooting under control through the technical training at our disposal.

It's undeniable that top shooters need top protection. The universal and complete solutions offered by TACTICAL LIFE are available for all dangerous areas in the shooting range, such as: floors, walls, ceilings or catcher blocks. Together with reliable partners, TACTICAL LIFE has the perfect solution for your shooting range.

01. Ballistic block wall

The most common question is: "How long does it last?" Practically any ballistic block will "resist" all conventional ammunition in the class of light infantry weapons for a very long time compared to the initial investment. Ballistic blocks do not release large amounts of heavy metals into the polygon atmosphere, being considered very suitable for maintaining air quality.

02. Anti-ricochet elastic tiles

Anti-ricochet tiles can be used to protect walls, floors and ceilings. They prevent ricocheting and dangerous trajectories in the inner area of the firing lines. With an effect on sound insulation, they are practically recommended for both indoor and outdoor applications.

BALLISTIC BLANKET

For certain equipment that needs to be protected, both from a ballistic and anti-ricochet point of view, TACTICAL LIFE uses rubber mats certified for military use.

EXAMPLE:

The firing line separators have a layer of membrane with certified and approved anti-ricochet properties applied over the ballistic steel.

The ventilation or lighting systems, engines and equipment protected mainly with steel plates, additionally applied a layer of anti-ricochet ballistic carpet.

Certified materials and approved for ballistic use they are the only ones for which we offer a guarantee.

MAKING A NEW SHOOTING RANGE DIAGRAM

To inspire you to go beyond desire, TACTICAL LIFE transforms customer requirements into unique projects, appreciated by the beneficiaries and respected by the competition. With each completed project, we set a new standard in the field. Always higher.

Timeline

A



2023 PROJECTS

APRIL 2023 : MOBILE SHOOTING RANGES- MSHR

How a MSHR can help your demands:

- Better Quality and higher frequency of live fire training
- The range is at **Your Facility**, eliminating travel time, overtime, and associated costs
- 24 Hour training available regardless of weather conditions and time restraints
- **State-of-the-Art live fire Judgmental Training that simulates real life situations**
- **Lower Cost and Expenses** for the entire spectrum of "Use of Force" Training
- Accreditation of your Officers having **Dynamic Judgmental Training** Lower Risk of Wrongful Death/Injury Law Suits

JUNE 2023: Modular Shooting Range

TACTICAL LIFE MRS (Modular Range Systems) is turn-key solution for live-fire training requirements. Commercial off-the-shelf, modular range systems engineered with 100% ballistic containment. **MRS** arrives complete with 2 lanes or expandable with as many lanes as your organization requires to meet mission training requirements. The **MRS** can also be configured to a wide-open tactical training layout with custom lane widths per operator requirements. Either configuration comes complete with shooting stalls, target retrieval systems, bullet traps, programmable lighting, HVAC, and filtration systems.



MIL0 SIMULATOR INSIDE

Photo: TACTICAL LIFE
Location: TACTICAL FACTORY JOITA
Equipment: MSHR

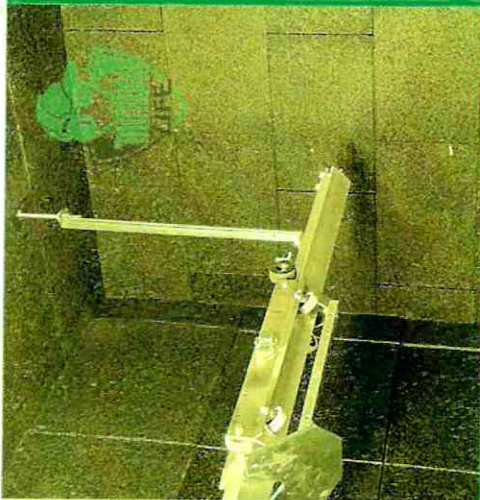
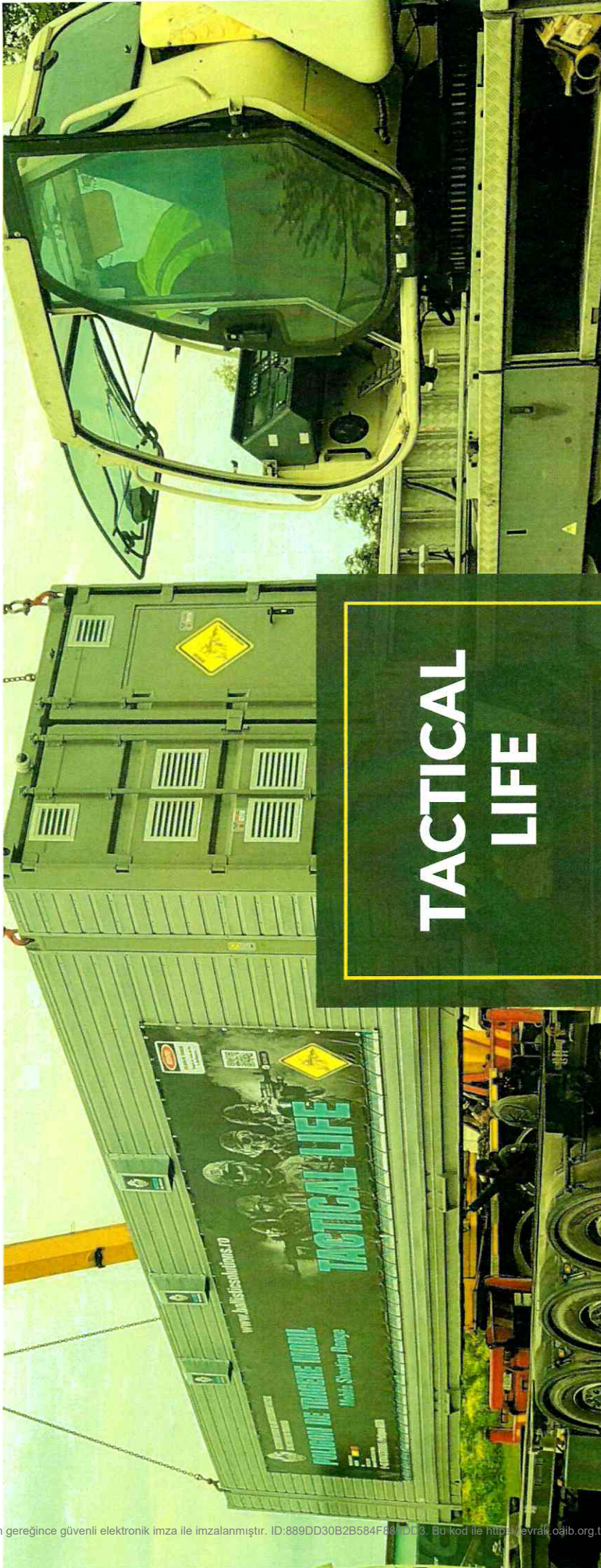


Photo: TACTICAL LIFE
Location: IPJ ARAD
Materials: Ballistic Block's & Rubber Tiles

The ARAD County Police Inspectorate wanted to set up the most modern indoor training ground in the territory at reasonable costs. With our help, this project was successfully completed.



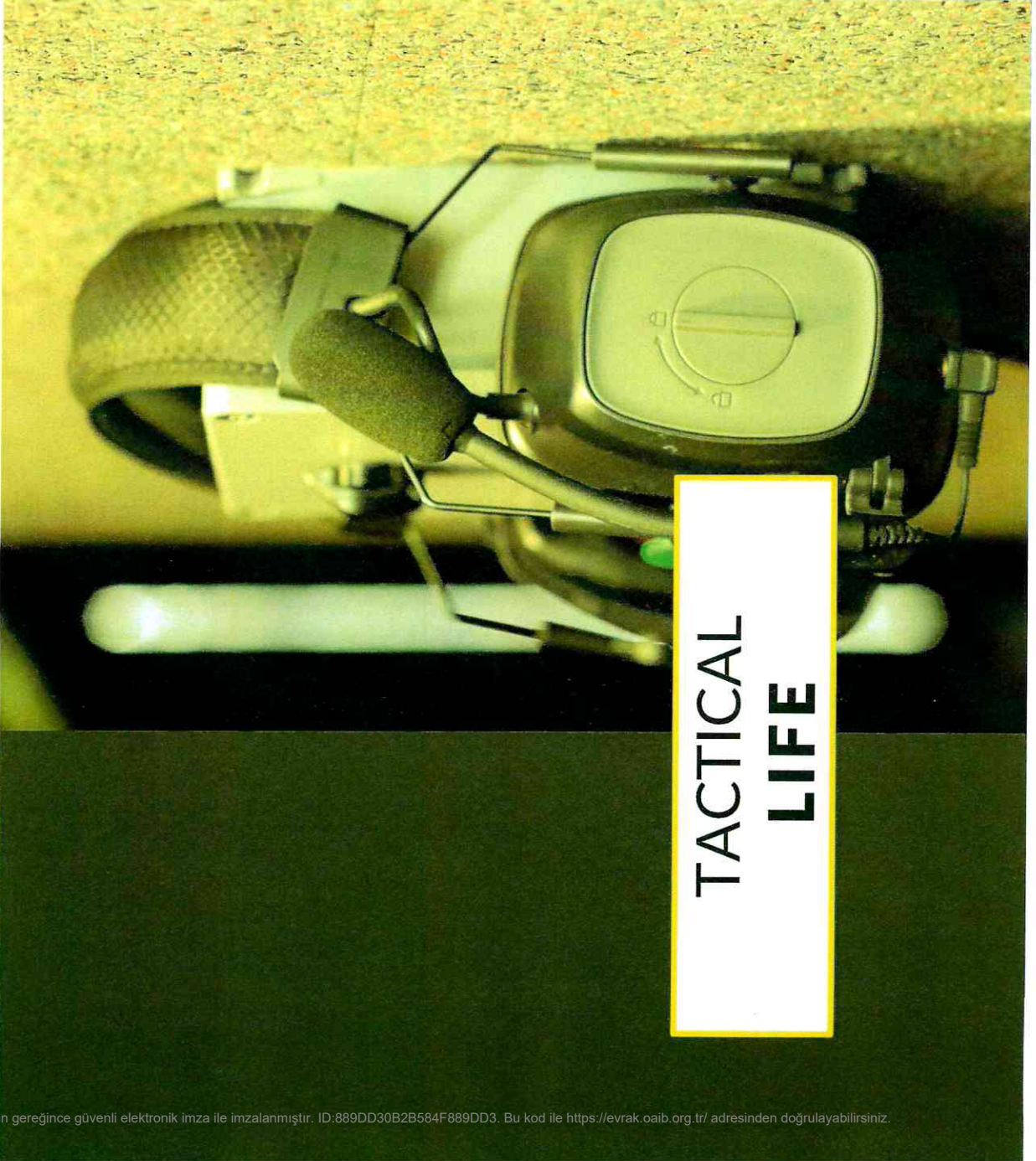


TACTICAL LIFE

MOBILE RANGE
(MSR)

FULLY INTEGRATED SYSTEM FOR TACTICAL TRAINING
AND INDOOR SHOOTING EXPERIENCE

SAĞLIKLI YAŞAM İÇİN GÜVENLİ ELEKTRONİK İMZA



During the past 9 months, our team of highly trained Ballistic Researchers has worked closely with our experienced lethal weapons instructors in order to develop the first mobile shooting range in Romania.

Manufactured entirely in Romania, with local know-how and engineering skills, our mobile shooting range is without any doubt the strongest and most complex training system which aims at acquiring and maintaining tactical shooting skills on either classic target lines, laser systems or lethal firearms.

EUGEN DIMA

CEO TACTICAL LIFE

OUR MOBILE SHOOTING RANGE (MSR) CAN BE USED FOR:

Basic firearms training for young cadets, with or without prior shooting experience, we can supply our MSR to all military educational facilities (Highschool, Academia, Special Ops Training Centres)

Tactical training and Advanced Shooter Skills for all types of weapons and all officers from national government agencies

All Police Units can deploy our MSR for improving shooter skills for all active duty officers

Ballistic Research and Forensic Analysis of experimental ammunition, conventional firearms, quality testing of armour plates and shooter behaviour

Scenario-based Advanced Weapons Training for Special Operations officers, according to their active brief. Our MSR can be deployed on call at said FOB or nearby compound.



KEY STRENGTHS

At Tactical Life Srl, we maintain a dynamic approach strategy towards the ongoing contemporary armed conflict, which imposes a stringent need for adaptability, high alert and fast response.

We should also not neglect the mobility factor of combat troops, who are in constant deployment in areas where hostile action may occur.

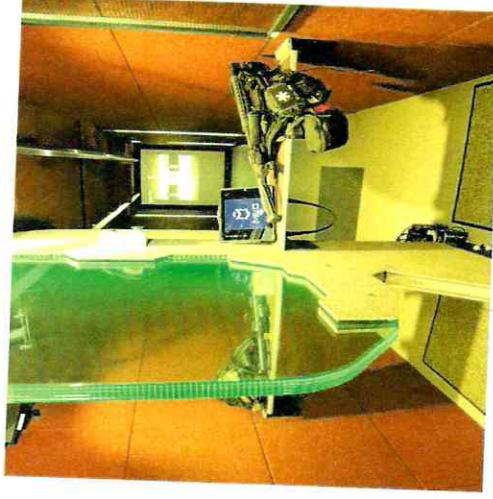
Our MSR offers through its design and integrated equipment superior safety levels and a degree of shooter interaction above and beyond of anything offered by a standard shooting range.

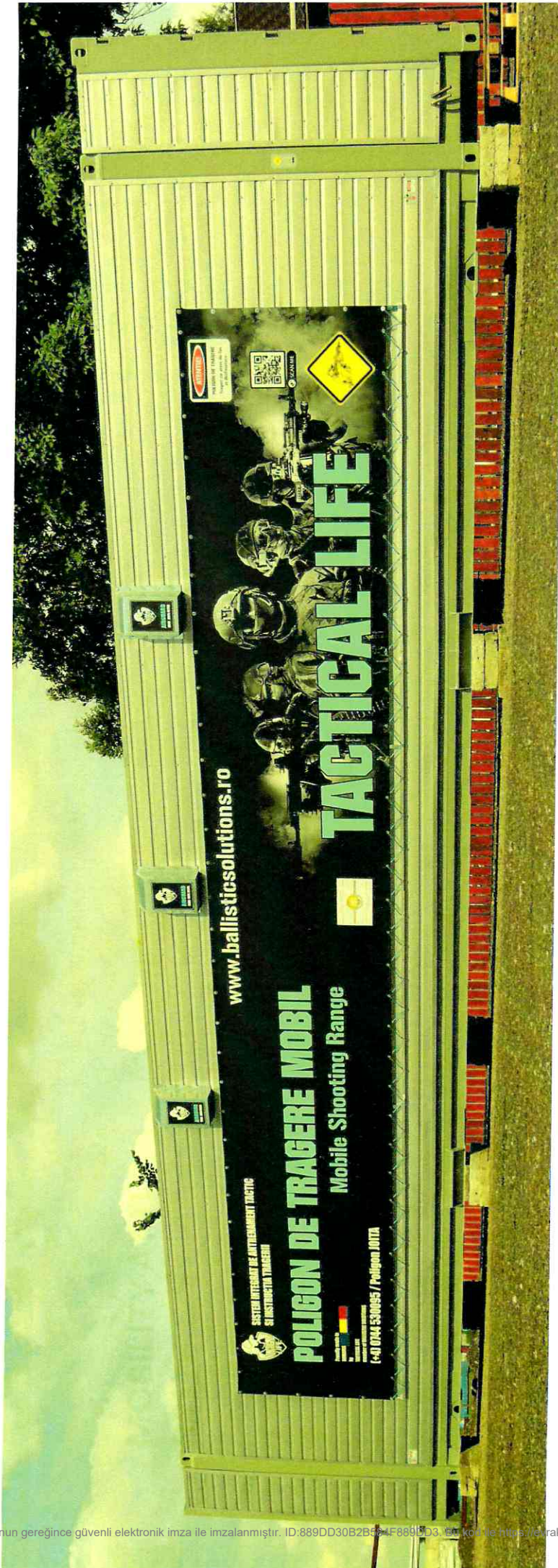
Aquiring and maintaining high quality combat training of active duty personnel

Compared to a standard shooting range, our MSR is superior by rapid deployment options - we can bring the container where shooter training is a day to day necessity, we are able to follow forward operating personnel wherever they are located.

Our MSR is always open - not weather dependent, discreet and we can simulate daylight, dark, fog, smoke, and other scenarios on request.

Our MSR is always ready, always fully equipped. 'Ready To Fire' status can be achieved within 60 seconds from arriving at client location.





MOBILITY AT ITS BEST:

Our MSR has been designed and produced entirely in Romania by TACTICAL LIFE SRL. It is the only mobile shooting range capable of mission ready status within minutes upon arrival at client location.

Besides the platform where unloading takes places, our MSR does not require any further calibration or other adjustments from manufacturer's part. The shooting sessions can start as soon as power is plugged into the main AC connector.

The MSR container dimensions and its weight are standardized for international road, air and naval freight regulations (EU and non-EU) without any extra freight permits being required.

LOADING/TRANSPORTATION/UNLOADING/READY TO USE

NO CORNERS HAVE BEEN CUT HERE

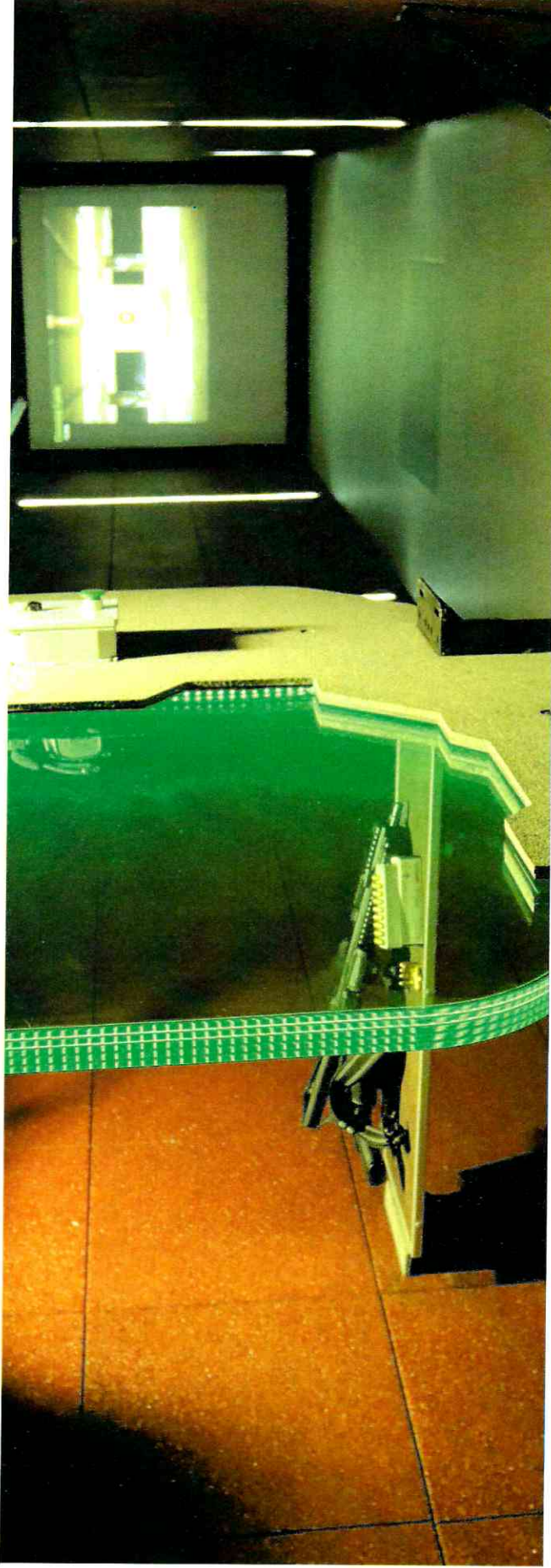
CAREFULLY SELECTED SUPPLIERS. **HIGH SAFETY
STANDARDS**

Putting together a lot of equipment inside a box is not really a success story. A success story is about creating a premium product by using the latest technological innovations coupled with lots of years of experience and adding a thick foundation layer of highly specialised skills.

Ballistic protection layers used in our MSR are manufactured by world class brands such as SSAB-ARMOX, REGUPOL, LYNATEX sau KRAIBURG. All products used are NATO-STANAG/MIL-STD certified, there has been no compromise on cost over quality or over technical specifications, as we are fully aware of the safety level required for this type of installation.



MOBILE RANGE TACTICAL LIFE



MSR is a new and revolutionary firearms training concept, a highly autonomous and easy to deploy solution for any type of working scenario. With an external length of 13.71m, our containerised MSR is designed to comply with multi-modal freight regulations. We maintain the highest level of ballistic protection and environmental safety.

The custom made ventilation system ensures fast evacuation of toxic fumes and professional grade soundproofing brings noise just under legal specifications. Weatherproofing and internal sound cancelling panels will make even the top-tier experts happy while using our MSR.



RANGE OF CALIBERS

The versatility of the MSR is highlighted by its ability to allow shooting with a multitude of calibers. In the design phase and later during the actual execution, the mobile range project focused on ballistic protection solutions that allow the safe retention of any projectile from light infantry weapons to civil use normal calibers.

This fact presupposes the use of the best materials and construction techniques currently available in the profile industry.

Sport's calibers

from 22 LR

to 30-06 SPR

Assault weapon

from 5,56 x 45mm

to 7,62 x 51mm

SMG

from 9 x 19 mm

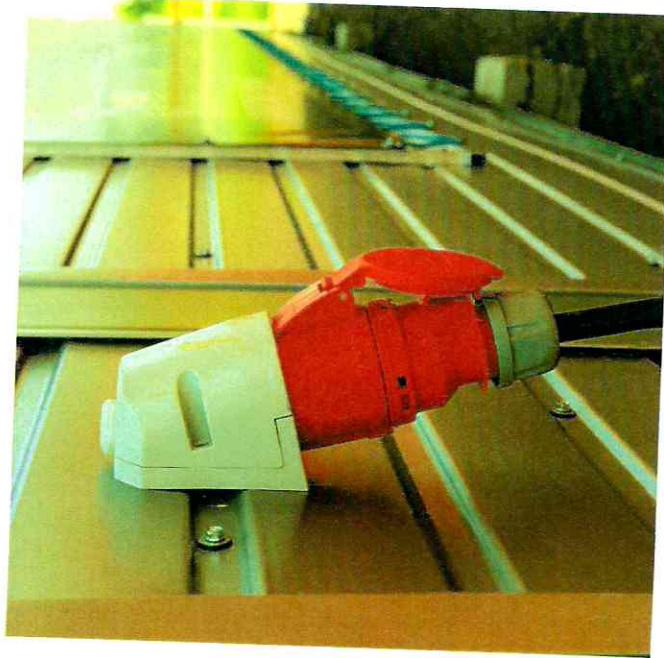
to .45 ACP

Pistol

from 22LR

to .45 ACP

LOW POWER CONSUMPTION



Ballanced consumption

Our MSR is powered from a regular 220V socket.

Maximum consumption: 4500 w/h



Minimum sound emission

Sound insulation is not just a wish of the engineers at Tactical Life.

Environmental norms are respected even if this polygon is located in the urban area



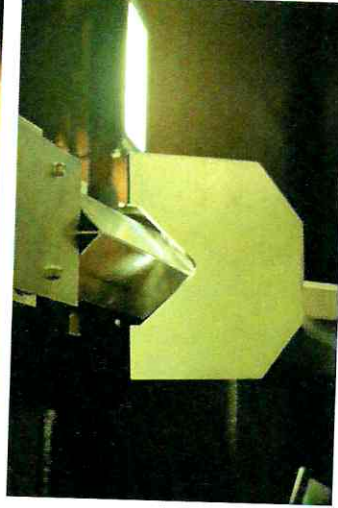
Turnkey solution

Those who use such technical innovations expect the products to be reliable and efficient.

The MSR offers you the key to this goal.

Tactical Life invests not only in the latest technology. We take into account the fact that, lately, there is almost constant talk about sustainability. In this sense, our product is from the beginning designed to be energy efficient, with a progressive programmable consumption and can be equipped, on request, with equipment that ensures off-grid operation such as power from photovoltaic panels.

BASIC PACKAGE



BASIC PACKAGE – WHAT'S IN THE BOX:

- 360 ballistic protection made from mil-std certified plates NATO-STANAG level 3
- bullet proof shooting lane separators
- HVAC progressive power 2-way ventilation system
- Inverter based Climate control system, low powered.
- Motorised target movement for both lanes
- Bullet proof door with access control
- Video monitoring of 3 indoor areas and 1 outdoor area



OPTIONAL ADVANCED PACKAGE



MILO LASER TRAINING

Our MSR enables shooters to perform basic, advanced or tactical training by using laser-based replica guns(SIRT professional kit) in visible or invisible spectrum, combined with MILO RANGE optional software.



MILO RANGE - LIVE FIRE

By a single touch, our software can switch from laser simulation mode to real firearm live training. All handgun calibers are fully accepted.



MILO RANGE - ADVANCE

High penetrating superior ammo rounds are usually hard to stop and collect. Our system is designed to safely catch all calibers from assault or hunting rifles.

OPTIONAL SUPREME PACKAGE



SMOKE

Simulating a hostile environment can be quite a challenge, but we can deliver various scenarios of smoke/fog in a repeatable and predictable way. This can contribute to achieving a realistic training environment for all experienced shooters.



TACTICAL LIGHT

We all know how easy it feels to use the weapon sight, aim and shoot in optimal lighting conditions.

But when the light becomes a stress factor, a set of programmed strobes and random flashes may contribute well to an advanced training session.



RANGE ANYWHERE

Our RANGE ANYWHERE system comprises of a tablet pc which controls remotely the moving targets via a dedicated router. This ensures the instructor is always near the shooter, instead of being near the cabled control panel. This of course will provide extra safety and a more personal experience for all shooters.



MANUFACTURER CONTACT DETAILS: TACTICAL LIFE ROMANIA

WWW.BALLISTICSOLUTIONS.RO

PROGRAM	L-V	9.30 - 17.30
EMAIL		info@ballisticsolutions.ro
TEL.		0040 744530095
ADRESA		Str. Intrarea Poligonului nr 1. Joița

