

**FÄNGER**  
SYSTEMS



Products & Services

# Indoor Shooting Ranges & Training Infrastructure



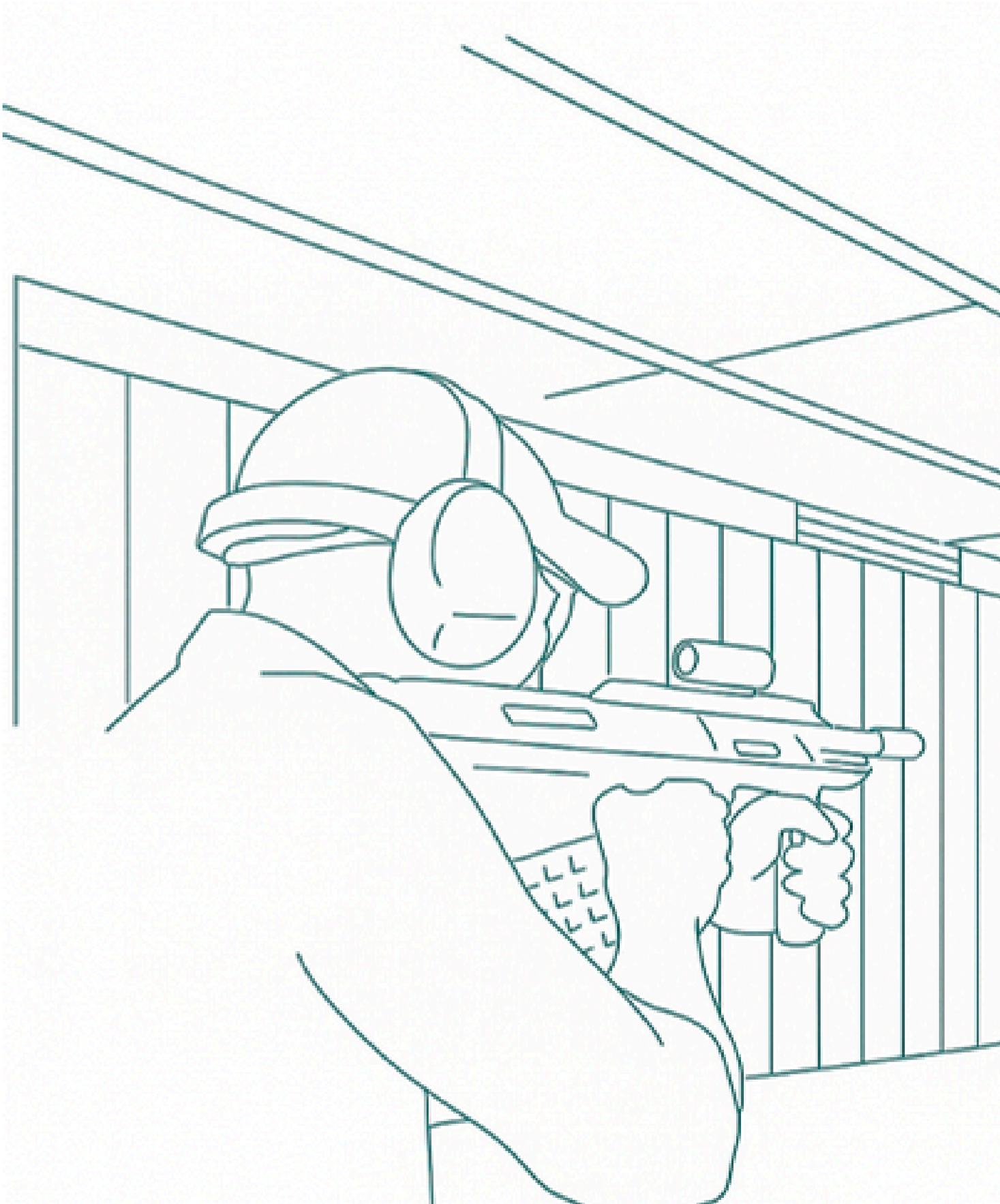
**Quality built on experience.**

**Precision made in our own production.**

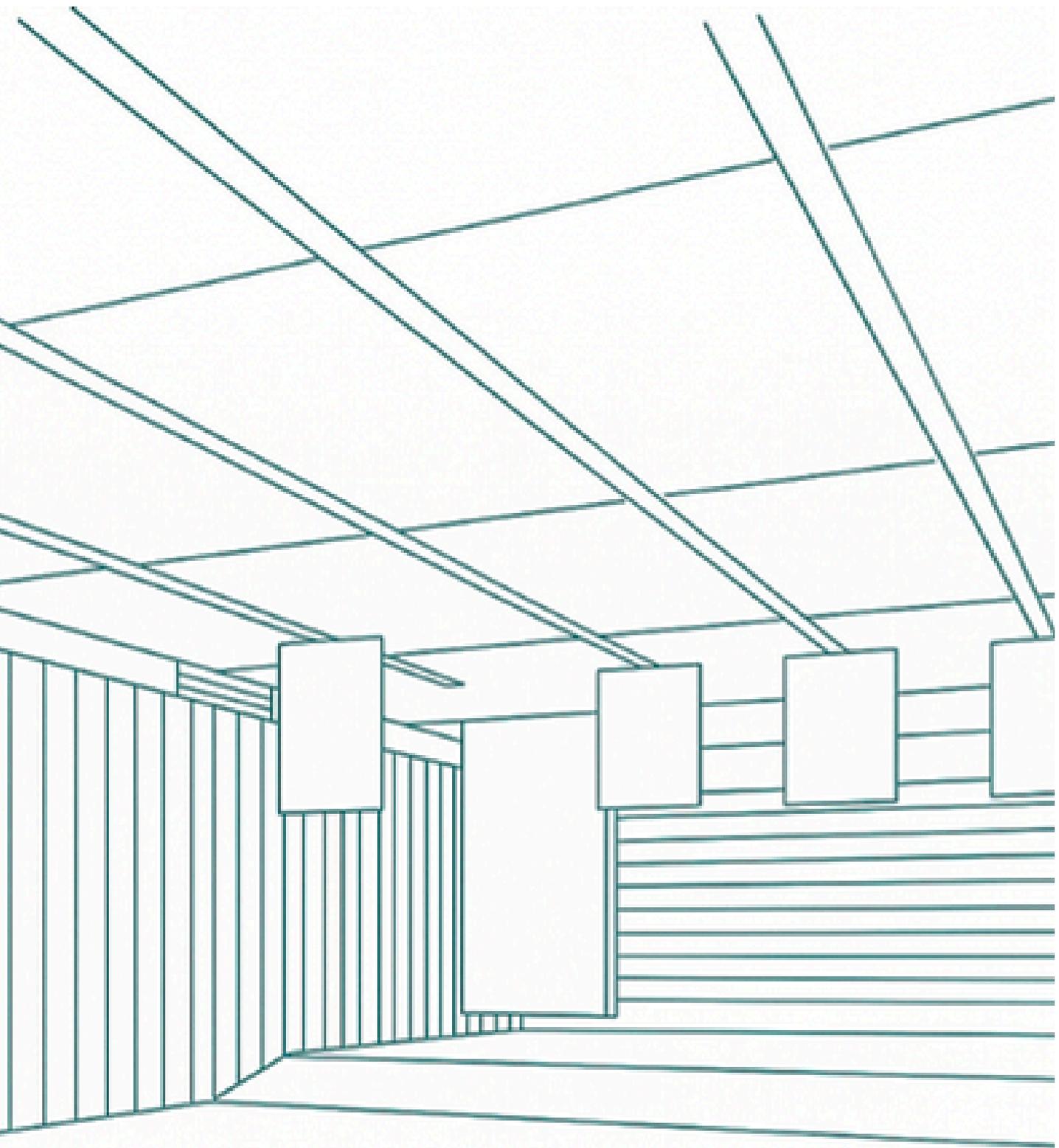
FÄNGER Systems emerged as an independent business unit of LOKO Logistikkomponenten GmbH, a family enterprise now in its third generation. Located in southeastern Styria, Austria, we unite technical know-how with decades of steel construction expertise. Our proprietary manufacturing facility allows us to execute constructions with precision, adapt flexibly to project specifications, and deliver cost-effective solutions while maintaining consistently high quality standards.

## COMPLETE SYSTEMS FOR INDOOR SHOOTING RANGES

Our products – particularly our in-house manufactured bullet trap systems – enjoy the trust of public security organizations such as police and military units. We offer bullet trap systems for a wide variety of applications up to 20,000 joules.



In addition, we supply all components required for a modern indoor shooting range: wall, ceiling and floor systems, ricochet protection, ventilation solutions, target and training systems, as well as acoustic fit-outs. This enables us to provide complete, fully engineered turnkey systems from a single source.



# BULLET TRAP SYSTEMS

## LT 2.500 – STEEL LAMELLA BULLET TRAP

The steel lamella system uses inclined Hardox lamella plates to safely deflect bullets and guide them into the collection area. Its compact design and shallow installation depth make it ideal for facilities with limited space. For 9×19 mm calibre, this system offers a highly efficient, durable and virtually maintenance-free solution.

- *Installation depth: shallow*
- *Maintenance effort: low*
- *9x19 mm up to 7.62x35 mm (.300 AAC Blackout), including 9 mm Luger /Parabellum and 5.56x45 mm NATO.*



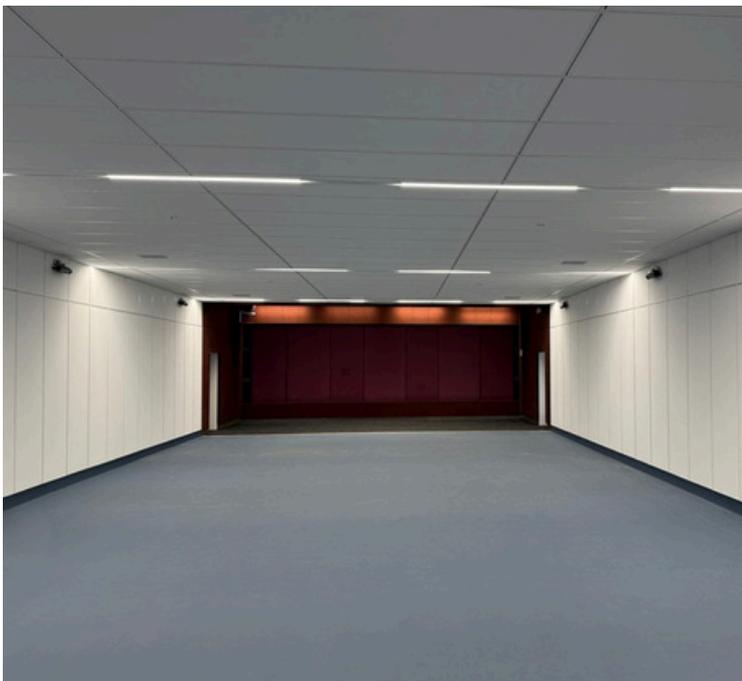
### *Counterterrorism unit of the Austrian Federal Police*

*Within just three months, the indoor shooting range of the Austrian Federal Police counterterrorism unit was fully modernised. At its core is a state-of-the-art steel lamella bullet trap with an integrated automatic bullet collection system, engineered for intensive use with service weapons and duty ammunition. The new installation significantly reduces operating and maintenance costs.*

## FT 20.000 – FUNNEL BULLET TRAP SYSTEM

The funnel type bullet trap is rated for muzzle energies up to 20,000 joules and delivers highly efficient bullet capture, even with powerful rifle calibres. Its robust steel construction is engineered for continuous duty and ensures reliable operation even under intensive use. Thanks to its design, the system is particularly suitable for ranges with extensive rifle training, high firing rates and a wide range of calibres.

- *Energy: up to 20,000 joules*
- *High firing rate*
- *Installation depth: medium to large*
- *Maintenance effort: low*
- *9x19 mm up to 12.7x99 mm (.50 BMG/.50 cal), including key NATO calibers (5.56x45 mm and 7.62x51 mm) as well as .300 Win Mag and .338 Lapua Magnum.*
- *Available with automatic lead collection system.*



### *Police training centre*

*At the new training centre in St. Michael, one of Austria's most advanced police facilities, we were responsible for the installation of key parts of two indoor shooting ranges with firing distances of 25m and 100m. The funnel bullet trap is equipped with an integrated automatic collection system and an automated ballistic curtain system for shatter and ricochet protection. The curtains feature an automated lifting mechanism that enables fast and ergonomic replacement. Additionally, the primary impact zone is adjustable, allowing for maximum utilization of the ricochet protection and a significant reduction in operating costs.*

## RT 17.000 – GRANULATE BULLET TRAP SYSTEM

The granulate bullet trap provides a reliable and cost-effective solution for shooting ranges that require safe and efficient bullet capture. By using rubber granulate, ricochets are significantly reduced, noise levels are lowered and bullets are effectively contained.

- *Energy: up to 17,000 joules*
- *Installation depth: large*
- *Maintenance effort: high*
- *9x19 mm up to 12.7x99 mm (.50 BMG/.50 cal), including key NATO calibers (5.56x45 mm and 7.62x51 mm) as well as .300 Win Mag and .338 Lapua Magnum.*

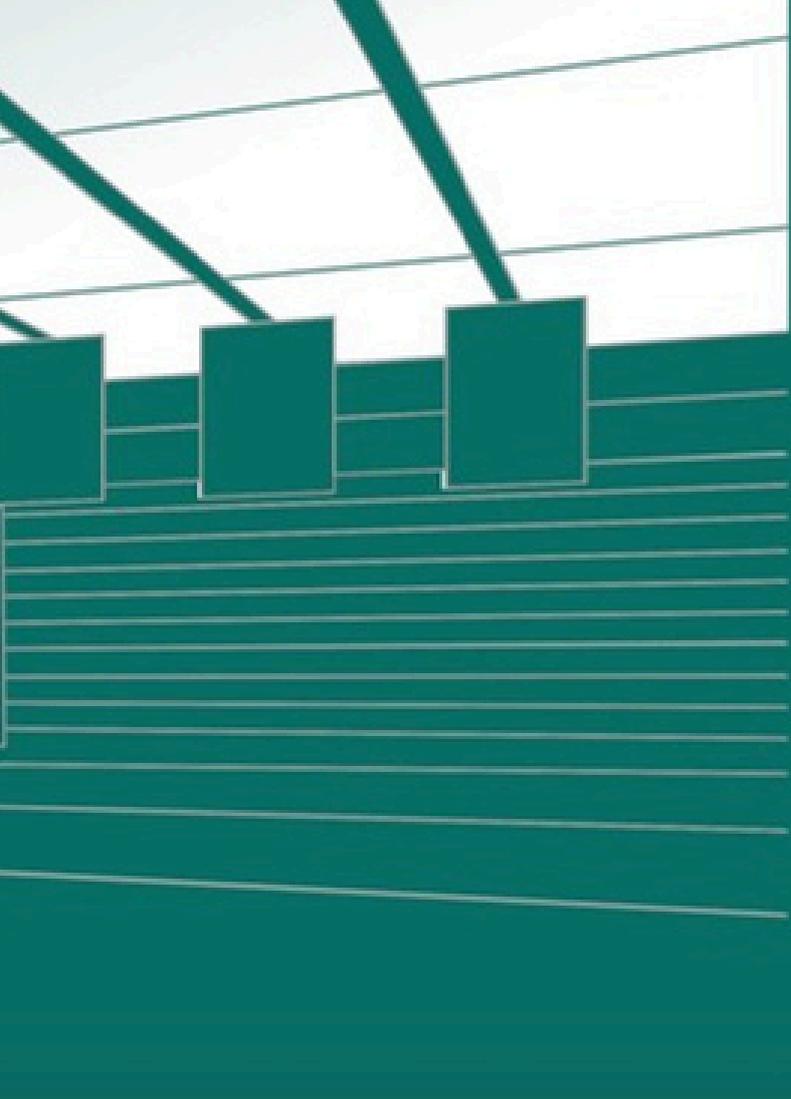


## **BALLISTIC WALL & CEILING PANELS**

Cladding systems are specifically developed for use in shooting ranges, providing reliable protection against ricochets and fragments. Engineered for continuous heavy-duty use, they combine high ballistic resistance with robust, low maintenance surfaces and an efficient mounting structure. Their modular design allows precise adaptation to different architectural conditions and flexible integration into new and existing facilities. As a complete solution for wall and ceiling coverage throughout the entire range, they support the long-term safe and efficient operation of the facility.

## **FLOORING SYSTEM**

Flooring systems, specifically developed for shooting ranges, are engineered to withstand the extreme demands of daily operation and offer safety, stability and long-lasting performance. They are resistant to both ballistic and mechanical impact, provide a slip-resistant surface for secure footing even under intense use and are designed to absorb bullets reliably while minimizing the risk of ricochets. Thanks to their versatile design, they can be adapted to different range types and operational requirements.



Reliable solutions require  
reliable partners:

**SPORTEC**<sup>®</sup>

**LOKO**  
LOGISTIKKOMPONENTEN

**LVR**

**RUTEK**<sup>®</sup>  
BALLISTIC SYSTEMS

## TARGET SYSTEMS

We offer a wide range of target systems tailored to various training requirements, including video based target systems that provide interactive shooting cinemas with projected moving targets for dynamic training scenarios, target retrieval systems that allow target carriers to be moved and positioned flexibly along the shooting lane, and static targets with robust, stationary holders for fundamental training and qualification shooting. All systems are characterized by high precision, user friendly operation and a long service life.

## VENTILATION SYSTEMS

The ventilation systems are specifically designed for shooting ranges and ensure clean breathing air during every operation by providing reliable protection against fine dust, propellant gas residues and other harmful substances. A targeted airflow with high velocity in the shooting direction ensures safe air exchange, while effective filtration removes harmful particles and gases from the breathing air. The systems are energy-efficient, meet all legal requirements for occupational safety and emissions and are engineered on a range-specific basis, tailored to room size, firing direction and intensity of use.

## BALLISTIC CURTAIN SYSTEM

Our system provides highly effective protection thanks to durable materials such as natural rubber and a modular design that allows quick and straightforward maintenance and replacement of individual elements. An automated lifting function ensures ergonomic, time-saving handling in day-to-day operation. In the main impact zone, the system can be adapted flexibly, enabling maximum utilisation and significantly reducing operating costs.

- *durable*
- *ergonomic*
- *optimized operating costs*
- *easy maintenance*



### *Police training centre*

*To protect against ricochets and fragmentation, a ballistic curtain system made of high-quality natural rubber was installed. The curtains feature an automated lifting mechanism that enables fast and ergonomic replacement – a clear advantage in intensive training environments. Additionally, the system in the primary impact zone is adjustable, allowing for maximum utilization of the ricochet protection and a significant reduction in operating costs.*

# TRAINING INFRASTRUCTURE



## BUILDING PROTECTION

We supply protective building systems for the security-focused protection of critical areas. This includes bullet resistant doors, windows, walls and other components that comply with certified resistance classes. Our solutions reliably protect people, infrastructure and equipment against gunfire, violent attacks and unauthorised access.

### *Ballistic object protection*

*On a state-of-the-art 300-meter outdoor shooting range, a ballistic object protection system was implemented. The system combines high-strength steel with ballistic-grade polyethylene materials. This construction effectively eliminates the risk of ricochets and fully meets the legally required safety standards for operational personnel.*



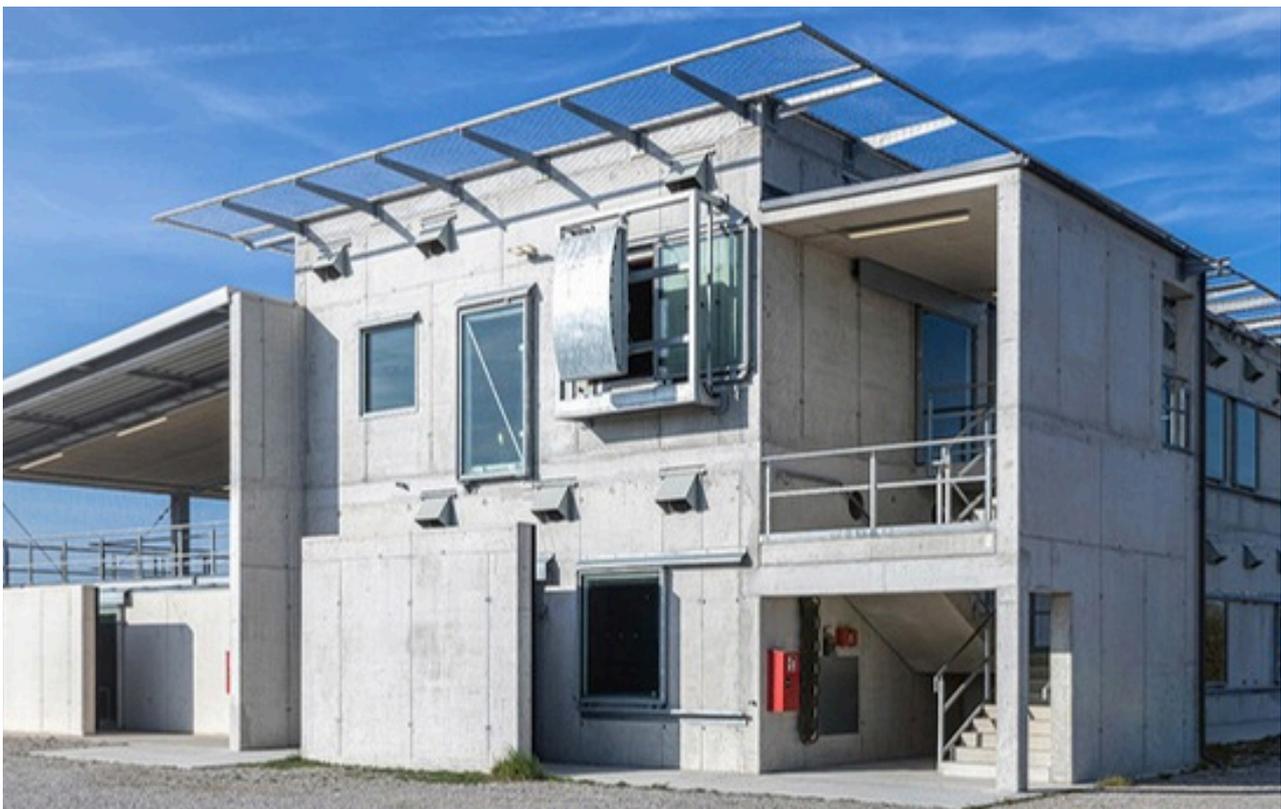


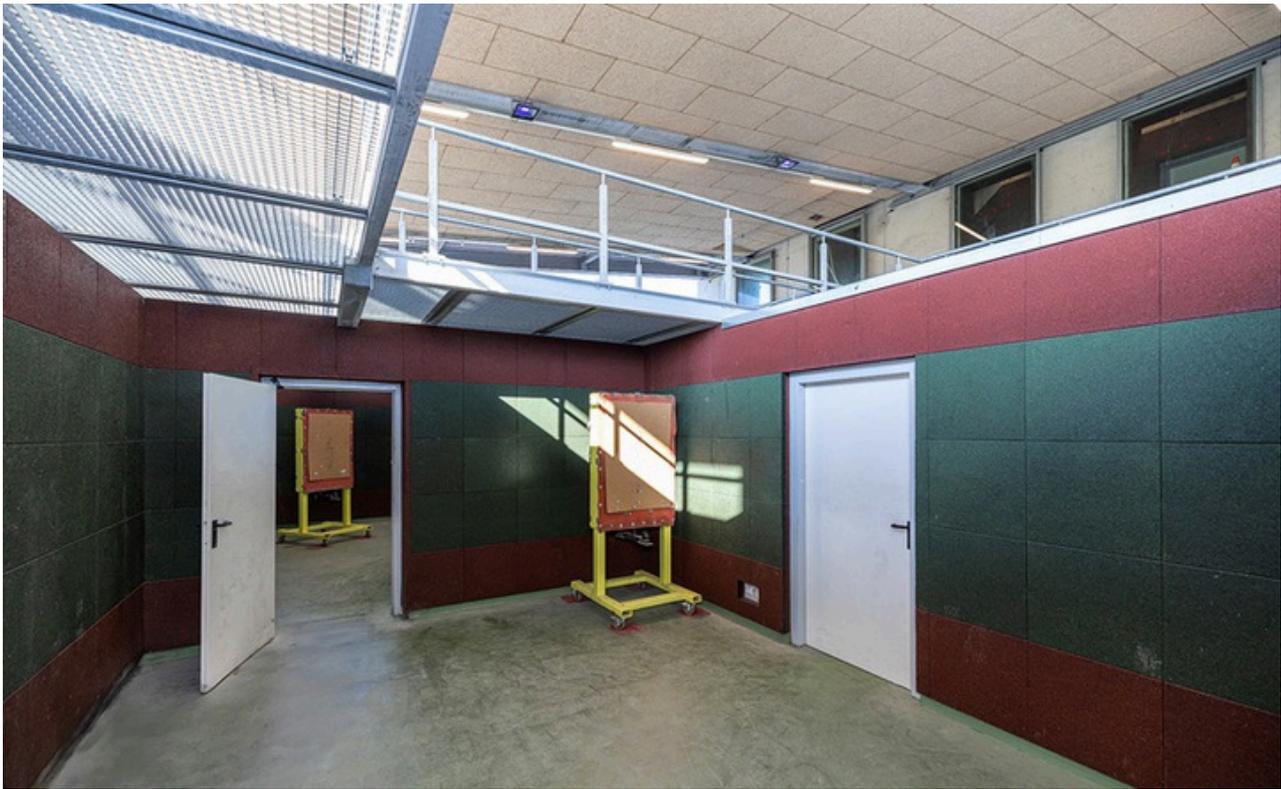
## TRAINING TOOLS

We provide specialized training tools that complement and deepen firearms training. These include, for example, mobile cover structures, obstacles and equipment for tactical drills. They support police and military units in systematically improving their operational skills under realistic training conditions.

### *Special Unit of the Austrian Federal Police*

*A true-to-original aircraft door is integrated into the modern training center of the Austrian special forces unit. It enables realistic training for aviation-specific operational scenarios.*





## TACTICAL SHOOT HOUSE

We plan and realise tactical shoot houses for realistic training under operational conditions. These systems simulate a wide range of scenarios. Tactical shoot houses allow security forces to train entry and clearance procedures under realistic conditions, including elements such as stairwells or attics. Integrated ballistic wall panels allow the use of live ammunition inside, enabling complex operations to be practised safely and effectively.

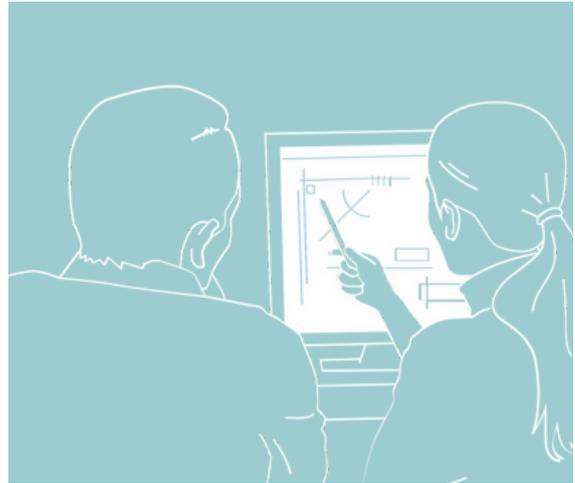
### *Special Unit of the Austrian Federal Police*

*The entire building complex, with its realistic interior layout, provides ideal conditions for tactical training exercises – both day and night. Multiple stairwells enable the simulation of a wide range of entry scenarios, while a generously designed observation gallery allows real-time monitoring and analysis of training sequences. A system-integrated helicopter landing pad adds another tactical dimension to the training environment.*



## Design and Planning

From technical design and detailed planning to coordinating official approvals – we offer full-service support for both new builds and renovations. Our custom solutions meet all safety and operational requirements for efficient, compliant, and future-ready execution.

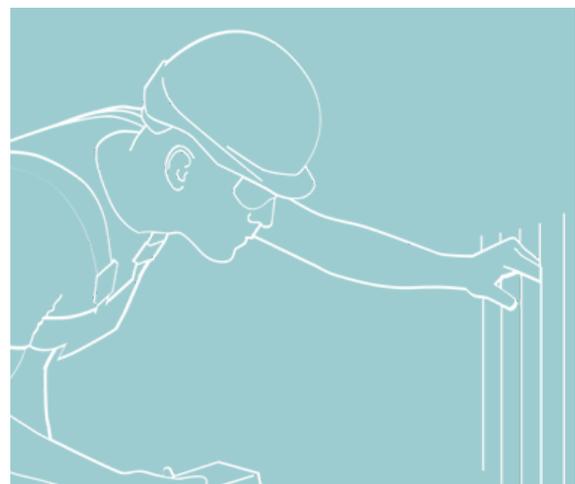


## Execution

We manufacture almost all system components – particularly the steel elements – in-house. Accurate on-site assembly and close supervision of the approval process ensure top-tier execution quality. Our extensive experience ensures compliant, professional implementation – delivering maximum safety and reliable project delivery.

## Service

Our comprehensive service offering includes scheduled maintenance, thorough inspections, and prompt troubleshooting in the event of system issues or failures. This ensures your shooting range remains fully operational and safe for ongoing use – delivering long-term reliability and efficiency.





Map by Vemaps.com

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