



POL GRUP

PROJE MİMARLIK İNŞAAT VE ATIŞ POLİGONU KURULUM LTD. ŞTİ.

GUN SHOOTING RANGE DESIGN AND APPLICATION

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ABOUT US

We have been making architectural projects and applications in the sector for many years. In the last 30 years, we have been involved in hundreds of projects in the sector and have improved ourselves in every business. For the last 7 years, we have been mainly designing and implementing shooting ranges. Our aim is to develop quality and applicable projects in all areas of the construction industry and to implement these projects. We develop viable and safe systems and projects in the shooting range industry. We strive to design and build safer, more efficient projects. In recent years, we aimed to activate the sector by starting R&D studies on moving target systems, especially for shooting ranges. We carried out the project and installation of 25 out of 65 polygons in Turkey.

As Pol Group, we design and implement a turnkey shooting range. After the shooting range is delivered to us, we first make a business plan. Our application is as follows:

- Covering all walls adjacent to the shooting range with sound insulation material
- Profile carcass assembly for polygonal steels.
- Pull of electricity and ventilation lines.
- Sheet metal coating on the profile frame.
- Painting of all metal surfaces.
- Creation of bullet traps and firing line strips.
- Rubber coating on the wall sheets.
- Installation of ceiling bullet tabs.
- Installation of target system rails with call from ceiling.
- Destination system tools and panel mounting with call from ceiling.
- Covering the entire floor with 4 cm thick rubber.
- Covering the 15-meter area from the waiting area to the firing line with polyurethane putty and paint.
- Placing of smoke detection detectors
- Installation of steel doors and fire doors.
- Commissioning of the ventilation system.
- Installation of bulletproof glass in the surveillance room.
- Delivery of the shooting range ready for use as a result of all controls.

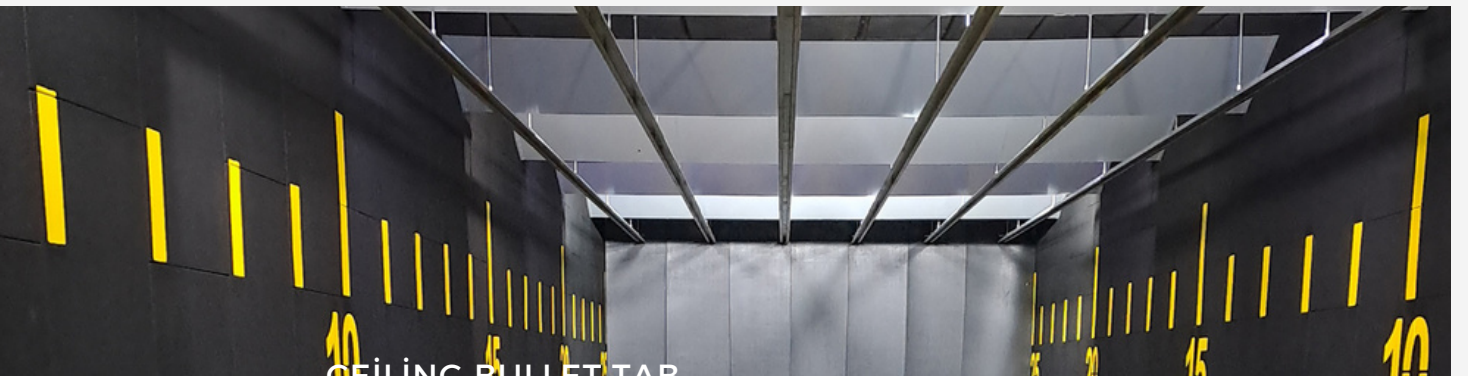
SHOOTER İNTERMEDİATE COMPARTMENT

Shooter partition walls created in the shooter line to prevent accidents that may occur during shooting at the shooting ranges and to ensure that the shooters can shoot in suitable conditions. While creating the shooter partition walls, special steel sheet of sufficient thickness is used to prevent bullet bounces to the right and left, and special coatings are applied on it to prevent bullet bounce.



BULLET TRAP AND PVC CURTAIN

Bullet traps are applied according to the usage pattern of the shooting range. Bullet traps will reset the energy of the bullets fired at the targets towards the bullet trap after the bullet hits the trap; They are designed to prevent the core from jumping out of the bullet trap. Bullet traps are manufactured in such a way that they completely cover the front of the wall behind the targets, facing inside the shooting range. The thickness and strength of the steel to be used in the manufacture of bullet traps are determined according to the types of weapons and ammunition to be used in the shooting range. Bullet chambers are placed under the bullet trap, where the incoming bullet cores are collected. The chambers are manufactured in such a way that they can be easily pulled out and emptied. PVC curtains are used to prevent the shrapnel fragments, which are formed as a result of the bullets hitting the bullet trap, from coming out of the bullet trap. PVC curtains; The hole formed after the bullet cores pierce the PVC curtains has the feature to shrink to 1mm in diameter. Thus, the number of shots to be made per square meter can be 45,000-60,000 shots, and the PVC curtains can be used for a long time without losing their feature.



CEILING BULLET TRAP

CEİLİNG BULLET TAB

In the range, the shots are made from the target line towards the bullet trap. In order to prevent damage to the building and to protect the columns and beams during these shots, bullet tabs are placed on the ceiling of the range at certain intervals and at certain angles, in width and length suitable for the polygon interior structure. When shooting from the target line towards the bullet trap, the bullets hitting the tabs on the ceiling are directed towards the trap line. Moreover, thanks to the lighting fixtures hidden inside these tabs placed on the ceiling, clear and balanced illumination of the inside of the shooting range is ensured. It also creates an ideal environment for the ventilation system inside the shooting range.



GUN SHOOTING RANGE TARGET SYSTEMS

ELECTRONIC (WIRELESS) TARGET SYSTEM • The Electronic Target system is a rail system that calls out from the ceiling and has a bathroom. • With the call from the ceiling, the target system is to use 100 liters of iron on the rails. • Target trolley is manufactured from armox 500 quality sheet, from bedding material resistant to environments and growth, PU coated, quiet requirements. • Targets can stop at 0-5-10-15-20-25 meters. • Targets move quickly and silently for 25 meters. It automatically slows and stops on take off. • Each user can easily remove the target paper from the shooter's intermediate chamber. • Distance controls are made with electronic devices. • *Information exchange between the electromechanical target system and the control unit, connection with the wireless system. • A 10" desktop screen is used for ceiling broadcast target system controls. • A speed doom camera will be integrated into the system. • The 32" LCD screen allows you to see the goal clearly between 0-25 meters from the shooter's target search. The target system can be manufactured in special dimensions according to the length of the shooting range.

