



Blast Proof Structure Test of the Melchior Project

Carried the Blast Proof Structure Test of Melchior Project out at INTA “La Marañosa” Campus

16.12.2024. –On November 14, 2024, the **Blast Proof Structure Test** of the **Melchior project** was conducted at the **INTA "La Marañosa"** campus (San Martín de la Vega, Madrid, Spain). This test consisted of two real explosion tests on a cabin without installed equipment, with the aim of verifying that the structure could withstand the defined explosions and evaluating the effect of the explosions on the prototype and its surroundings.

Before the test, the attending personnel visited the Ballistic Effects Square of the Weapons and Ballistics Systems department, where the detonations would take place, to observe the conditions in which the detonations would be carried out.

In the first detonation, using PG-3 explosive, the equivalent of 200 grams of TNT was placed inside the cabin. In the second test, the equivalent of 15 kg of TNT was detonated outside, located 6 meters from one of the cabin entrances. This test complies with the requirements of the British Aviation Security in Airport Development (ASIAD).

After the detonations, the assistants returned to the test area to check the effects and collect records for the subsequent analysis of the results obtained. The day concluded successfully.

The upcoming events of the **Melchior** project can be found on the following social networks:

- **LinkedIn:** Melchior Project
- **X (Twitter):** @MelchiorProject

Melchior is a project that aims to substantially improve a novel technology for the rapid detection of drugs, explosives, weapons, and illicit objects hidden in individuals and critical body cavities. This technology is based on infrasound mechanical impedance search, optionally complemented with other harmless and contactless technologies.



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