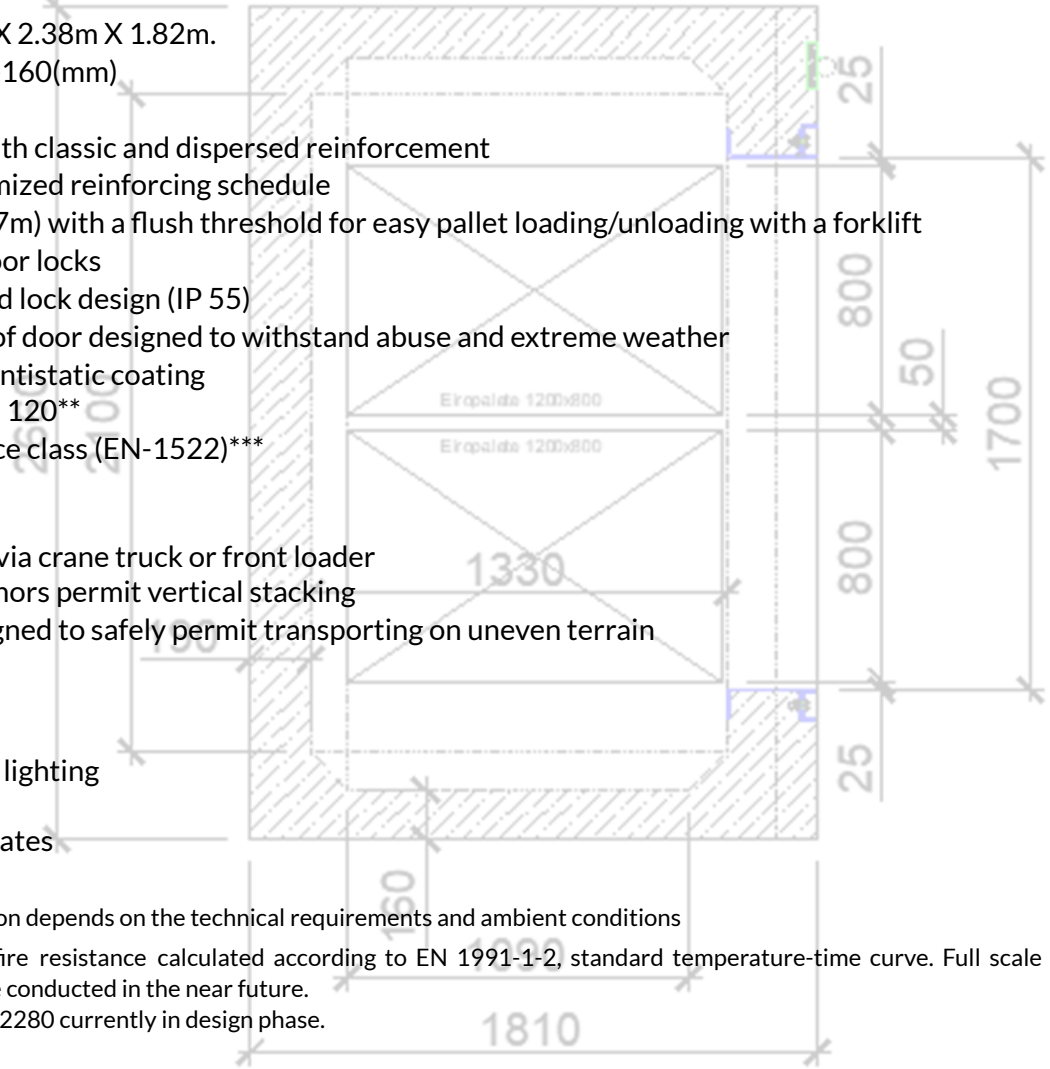
REINFORCED CONCRETE CONTAINER FOR II & V MILITARY SUPPLY CLASS STORAGE

TECHNICAL DATA SHEET

Advantages
EN1143-1 resistance grade VIII
Exceeds AASTP-1 medium storage building spacing requirements
IBD=0(m) at max 2(kg) of TNT
Mobile and autonomous with controlled climate*
Optimized for use with common forklift loading equipment

Technical data
Dimensions: 2.66m X 2.38m X 1.82m.
Wall thickness: 190-160(mm)
Weight: 13 000(kg)
C 60/75 concrete with classic and dispersed reinforcement
Innovative and optimized reinforcing schedule
Doorway (1.8m X 1.7m) with a flush threshold for easy pallet loading/unloading with a forklift
Two independent door locks
Waterproof door and lock design (IP 55)
Rugged, vandal-proof door designed to withstand abuse and extreme weather
Dust repellent and antistatic coating
Fire safety rating RE 120**
FR-7 bullet resistance class (EN-1522)***



Mobile
Can be transported via crane truck or front loader
Recessed lifting anchors permit vertical stacking
Lifting anchors designed to safely permit transporting on uneven terrain

Additional options
HVAC solutions*
Autonomous indoor lighting
Grounding system
AASTP-1 marking plates

* A specific HVAC solution depends on the technical requirements and ambient conditions

** Structure and door fire resistance calculated according to EN 1991-1-2, standard temperature-time curve. Full scale validation test will be conducted in the near future.

*** Tests as per STANAG 2280 currently in design phase.

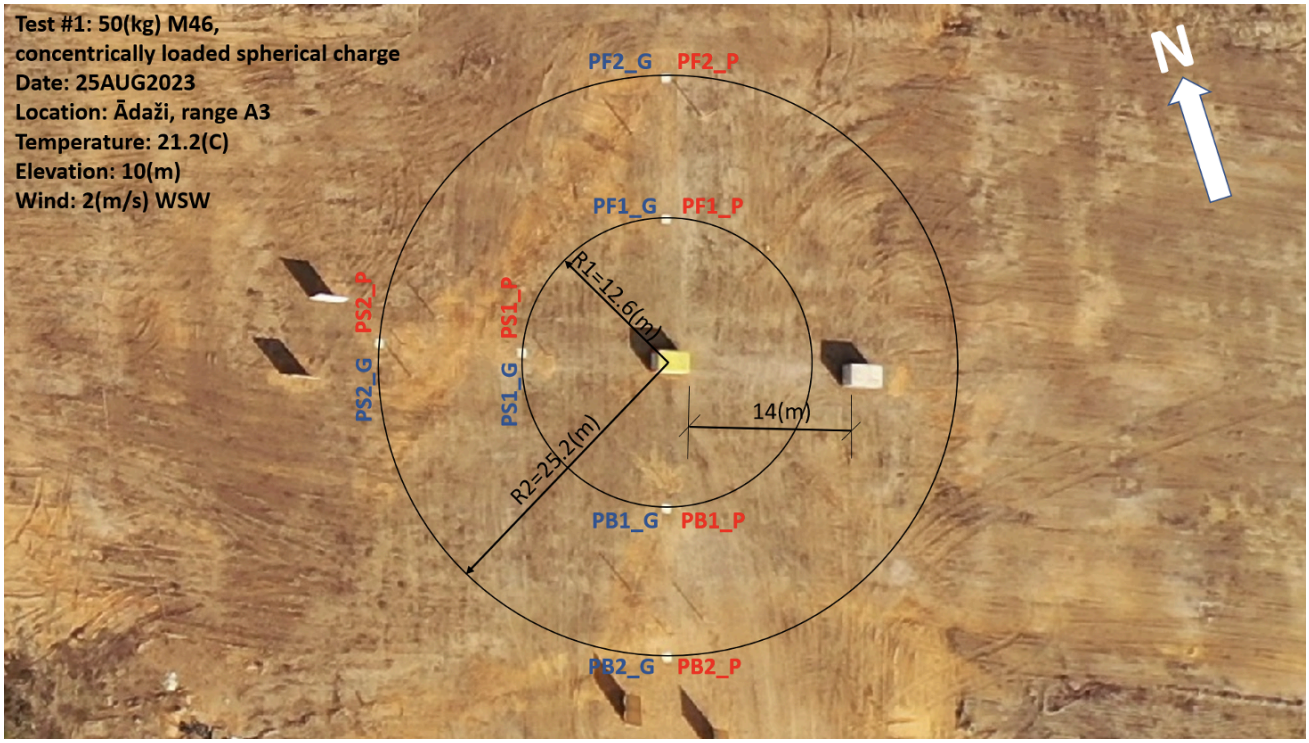


Figure 9. *Test #2. 50(kg) M46. Containers staggered, 1(m) apart.*

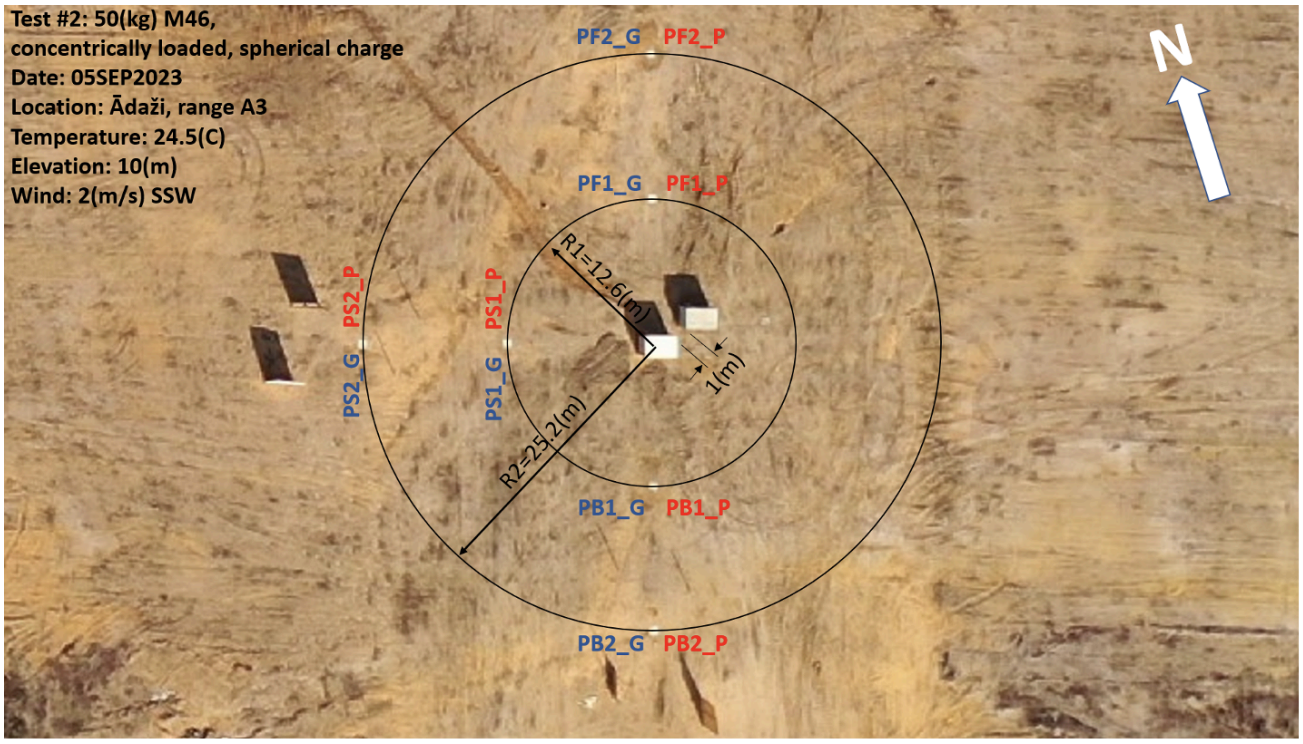


***Figure 10**. Test #2 setup; drone view. Container No.2 loaded with 50(kg)_M46, exposed site at 1(m).*

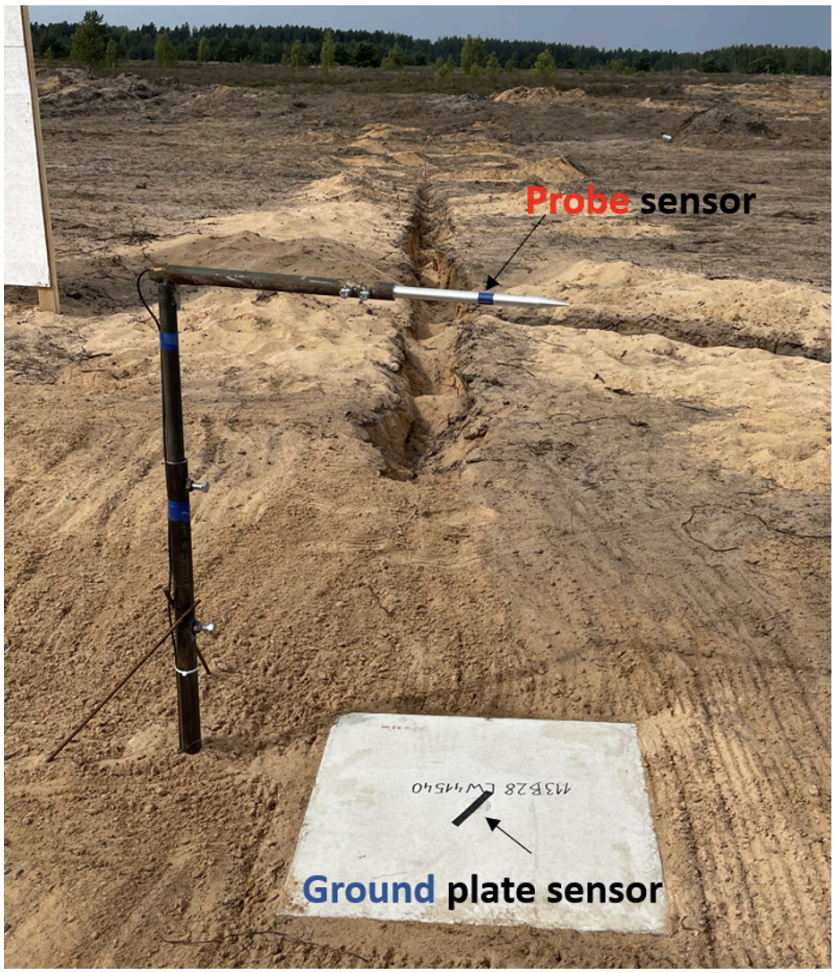


Figure 13. *Pressure sensing station. Sensors covered with pvc electrical tape to delay heat transfer.*

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Figrue 19. *Test #2. Venting through the shear lines and side wall splitting vertically*

Figure 20*. Test #1. Back wall rolling through the field of view of a high-speed camera facing 0^{o} bearing to observe the left side wall fragments. Inside face towards the camera. Compression failure visible.*

***Figure 21**. Test #2. Impact marks on the ES from the corner fragment of PES.*

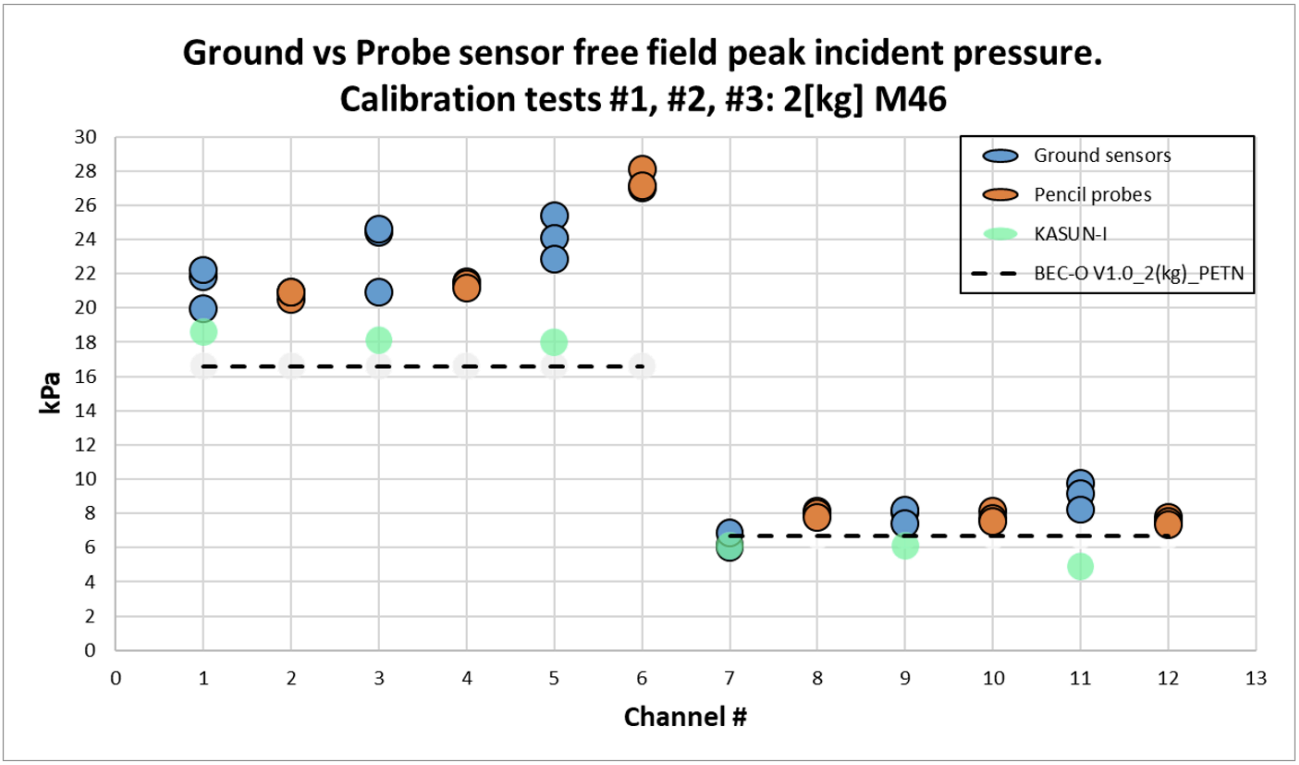

***Figure 22**: Calibration tests. Ground vs probe sensor free field incident pressure. KASUN-I and BEC-O values provided for reference.*

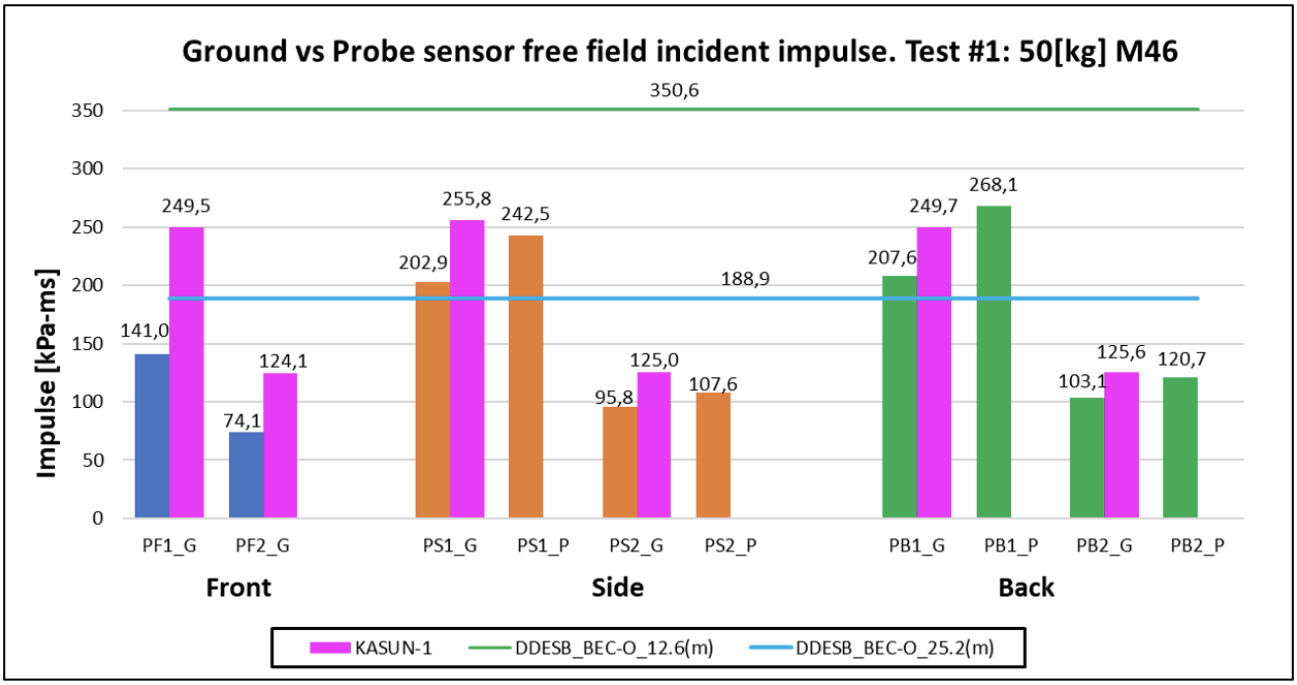

***Figure 25**. Test #1. Free field total impulse (positive phase). Color-coded principal directions. KASUN-I and BEC-O_50(kg) PETN values provided for reference.*

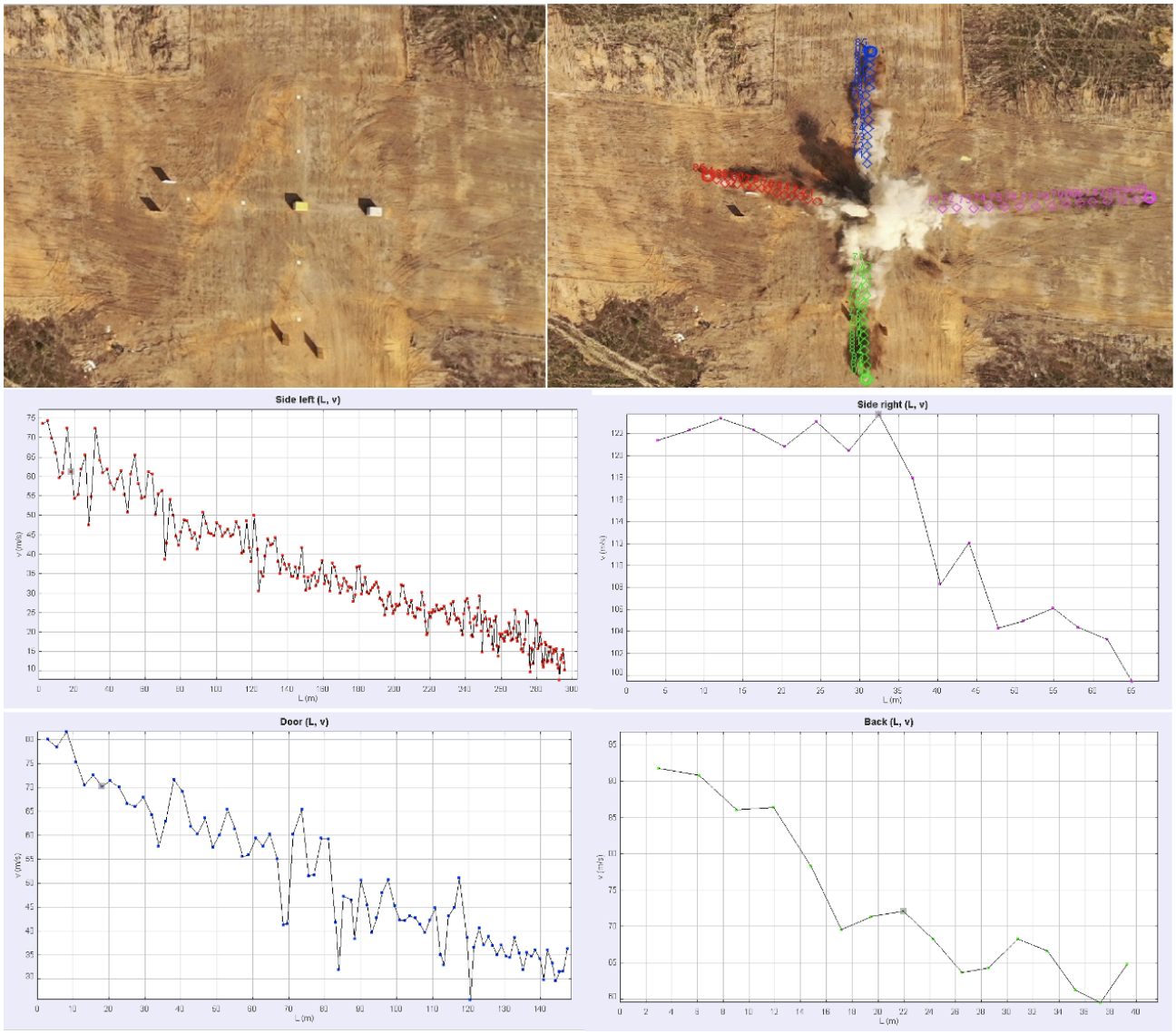

***Figure 28**. Test #1. Distance traveled (m) vs velocity (m/s) of all four large fragments.*

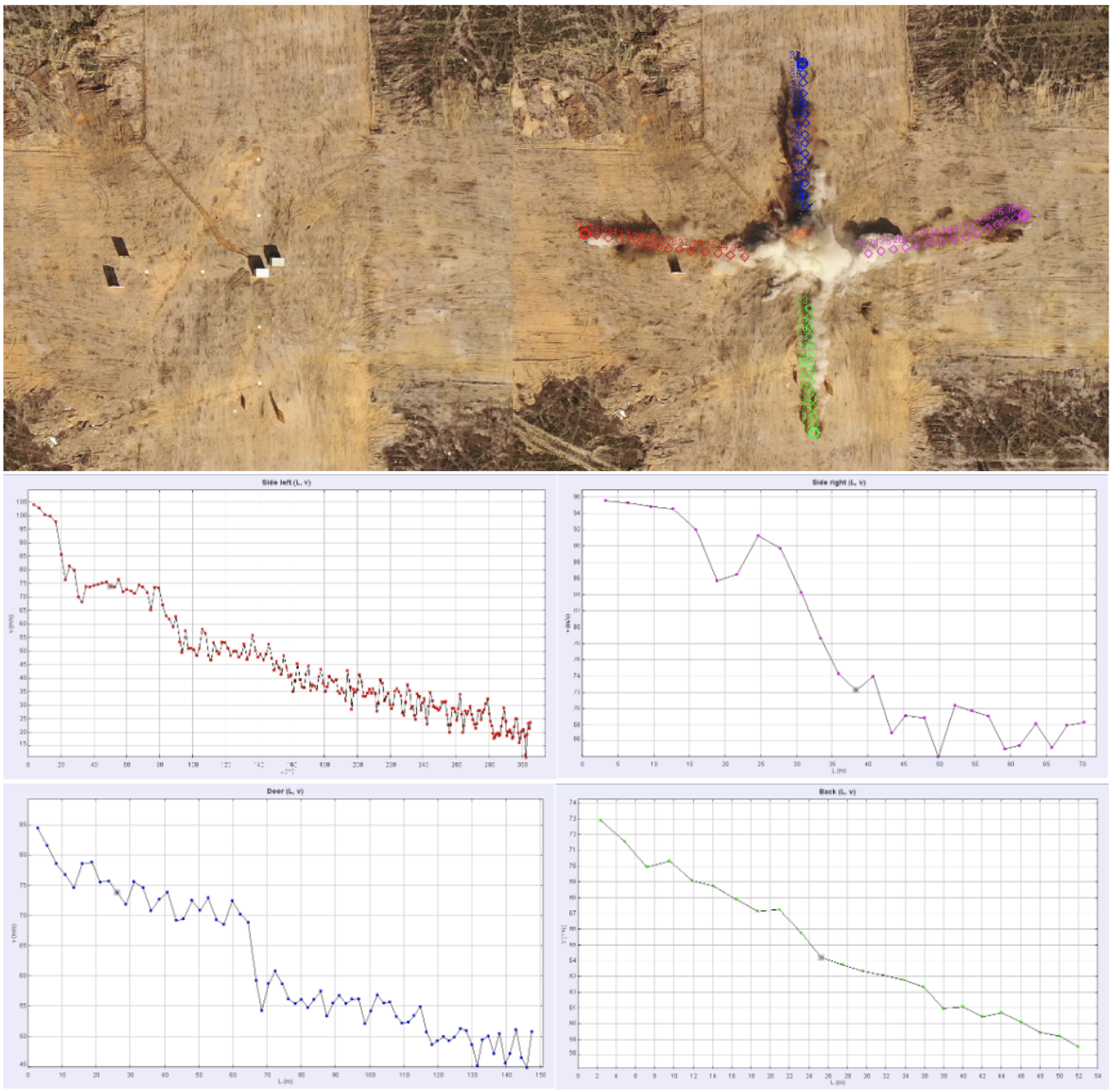

***Figure 29**. Test #2. Distance traveled (m) vs velocity (m/s) of all four large fragments.*

Test #2. Debris map