



# TEST REPORT

## QuickGuard 309 Joules

**Report No.** TR-23-039A  
**Date:** 2023-02-10  
**Place:** Troax Test Center



### TEST MATERIAL

Infill: Polycarbonate 979 x 2020 mm  
Profile: 44x44 mm  
Fixing: QuickGuard PL3 fixings  
Floor fixing: Bolted to test rig

### PURPOSE

To document the effect of an impact test from inside the hazard zone with QuickGuard machine guard system using Polycarbonate panels and PL3 panel fixings.

### TEST PROCEDURE

Pendulum mass: 69,5 kg  
Pendulum speed: 11 km/h  
Impact energy: 309J

The test was performed in accordance with the pendulum test method stated in ISO14120:2015 Annex C. The QuickGuard system were assembled according to the assembly instruction and then fixed to the test rig with M10 bolts. The pendulum was adjusted so the impact hits the panel 1466 mm above the floor, 2/3 of the total wall height of 2200 mm. To reach the energy of 309 J the pendulum was raised 451 mm from the starting point.

### RESULTS

The QuickGuard system successfully withstand the impact. The centre panel and the posts absorb all energy with no remaining deformation. Despite the 309J impact there was no penetration and no parts departed. The QuickGuard brackets shows no deformation.



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