

# TROAX®

# **TEST REPORT - ST30**Strong Fix 6000 Joules

Report No. TR-20-067A

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Place: Troax Premises



## **TEST MATERIAL**

Panel: ST30 2050x1500 mm Post: 80x80x2200 mm Fixing: Strong Fix bracket

Floor fixing: M12 expander bolts

# **PURPOSE**

To document the effect of a very high energy impact test from inside the hazard zone with Strong Fix machine guard system, the optimized 80x80 posts and the ST30 mesh panels.

## **TEST PROCEDURE**

Pendulum mass: 238 kg Pendulum speed: 25,65 km/h

Impact energy: 6000J

The test was performed in accordance with the pendulum test method stated in ISO14120:2015 Annex C. Panels and posts were assembled with the Strong Fix system according to the assembly instruction and fixed in the concrete floor using M12 expander bolts. The pendulum was adjusted so the impact hit the panel 1466 mm above the floor, 2/3 of the total wall height of 2200 mm. To reach the energy of 6000 J the pendulum was raised 2567 mm from the starting point.

#### **RESULTS**

The Strong Fix system withstand the very high energy impact. The centre panel, posts and surrounding panels absorb all energy and obtain a remaining deformation. The total deflection of the panel was 634 mm. Despite the high energy impact there was no penetration and no parts departed.



