



TEST REPORT - ST30

Strong Fix 3000 Joules

Report No. TR-20-030A
Date: 2021-04-20
Place: Troax Test Center



TEST MATERIAL

Panel: ST30 2050x1500 mm
Post: 80x80x2200 mm
Fixing: Strong Fix bracket
Floor fixing: M10 bolted to the test rig

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: 140 kg
Pendulum speed: 23,57 km/h
Impact energy: 3000J

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 test rig. The pendulum was adjusted so the impact hit the panel at 1466 mm above the floor, 2/3 of the total wall height of 2200 mm. To reach the energy of 3000 J the pendulum was raised 2182 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 340 mm. Despite the high energy impact there was no penetration and no parts departed.



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