

Report No. TR-22-026A
Date: 2021-09-03
Place: Troax Test Center



TEST MATERIAL

Panels: UR350
Fixing: 50 mm, 200 mm, 400 mm Uni-bracket with secure kit

PURPOSE

To document the effect of a high energy impact on the Troax Anti-Collapse system, installed with UR350 panels and Uni-Brackets with kit secure.

TEST PROCEDURE

Pendulum mass: 140 kg
Pendulum speed: 21,5 km/h
Impact energy: 2500J

The test was performed in accordance with the pendulum test method stated in ISO14120:2015 Annex C. The pendulum was adjusted so the impact hit the panel 1870 mm above the floor. To reach the energy of 2500J the pendulum was raised 1818 mm from the starting point. Panels were assembled according to the assembly instruction.

RESULTS

The Anti-Collapse system with Uni-brackets successfully withstand the high energy impact of 2500J. Despite the high energy impact there was no penetration and no parts departed. All panels and brackets remained attached. The panels absorb all energy and obtain a remaining deformation.

The total deflection of the UR350 panels was:
405 mm using the 50 mm Uni-bracket
418 mm using the 200 mm Uni-bracket
507 mm using the 400mm Uni-bracket



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