



Pendulum test Prosafe 1300J

**Pendulum test**

(Resistance of guards against impact from outside the hazard zone)

**Date:** 2019 – 03 – 21

**Location:** Anva Arion Sweden AB

**Test performed by:** Mats Brindeland, Anton Persson

**Result of the test:****Prosafe 1900x1000mm, 1300J:**

- Loosen bolts: No
- Loosen welds: No
- Penetration: No

Weight of body=80kg.

Body size: Ø423mm

1300J simulates a body with the weight of 90kg crashing into the fence at 5,40m/s (19,44km/h).

## Introduction:

The purpose of this test was to see how much force the safety fence could handle without falling apart. A weight of 80kg was swung against the fence with speed of 5,40m/s and a force of ca 1300J. This report contains both results of all the panels and pictures. A string of panels that supposed to simulate a standard fence without support behind was used. Hitbox for the weight was 2/3 of system height. To pass the test, nothing should break, get loose or crack. Its ok if the fence bends but it should not be broken.

## Result:

The panels handled the force with great confidence. Our fence didn't have any problem to withstand a force of 1300J and therefore approved as a good safety fence. The fence got bent and couldn't be reused, but it did its job to protect from outside the hazard zone (See pictures). Nothing broke, nothing got loose or broke from its fixings (See pictures). The footplates took a lot of force; therefore, nothing penetrated or broke in the panels (see picture).

## Equipment that was used in the crash rig and test:


4X	Post 2100 with adjustable foot
2X	Prosafe 1900x1000 (As side support)
1X	Prosafe 1900x1000
4X	Weight 5kg
3X	Weight 20kg

All the posts were bolted by 4 expander bolts on each foot.

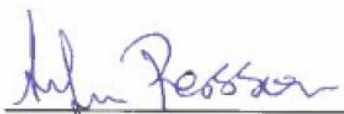
All the panels were bolted by 3 bolts on each side.

All the standard bolts for each panel was used (Prosafe M8x50, Optisade M8x40, Smartsafe M8x20).

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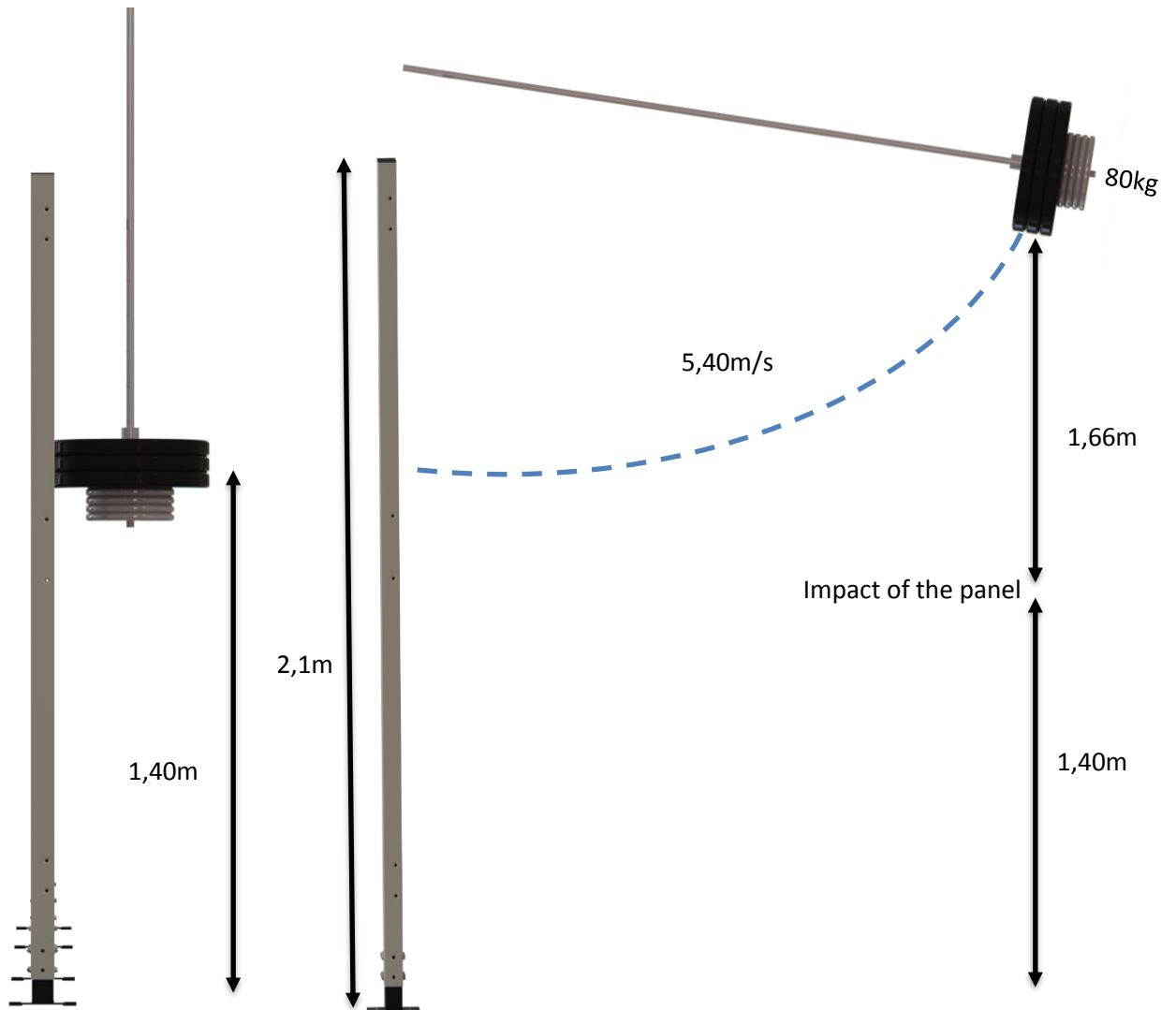


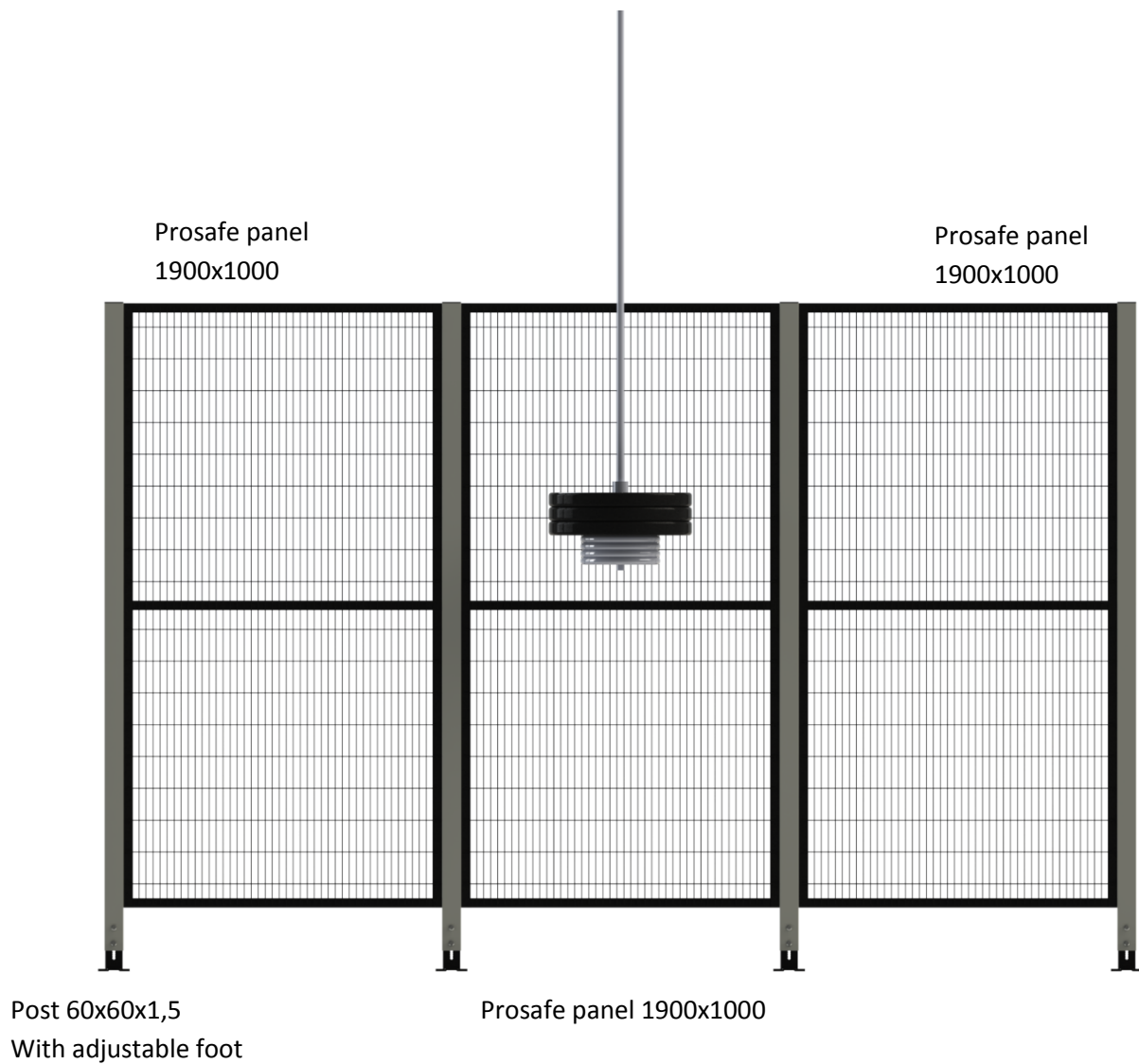
**Mats Brindeland**  
Sales Protect



**Anton Persson**  
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## Crash setup





## Prosafe 1300J

- See seperate video aswell.











