## Impact test report Quick-Guard<sup>®</sup> Standard

Date	Place	Testing Company	
2015-10-07	Kungsbacka, Sweden	ABB Jokab Safety	
Report No:	Test method		
QG-TR-40	Test method stated in EN ISO 14120:2015 Annex C		

## Test object data

Test object	Infill material / panel	Panel fixation	Post profile
Quick-Guard Standard	JSM YGP1A9 Steel panel 1,0 mm X-reinforced	JSM PL3 Panel lock	JSM A44A Aluminum profile 44x44
Test object height	Test object width	Test object width	
2000 mm	2000 mm	2000 mm	
Other			

## Test equipment and conditions

Test method	Impact body	Impact side	Height of impact point
Pendulum test	Hard body	Inside hazard zone	1340 mm
Body mass	Drop height	Calculated impact energy [E]	Floor fixation
34 kg	1500 mm	500 J	M10x68 expander shell bolts
Other			

Pendulum speed: 19,5km/h (5,4m/s)

E = mgh = 34 \* 9,82 \* 1,5 = 501 J

or

$$E = \frac{mv^2}{2} = \frac{34 * 5,4^2}{2} = 496 J$$

Where: E is the calculated impact energy in Joule [J] m is the pendulum mass [kg] g is 9,82 m/s<sup>2</sup> (constant) h is the drop height in meters [m] v is the pendulum speed [m/s]

## Test result

Result:

The fence absorb and resist the energy impact caused by the pendulum body, and obtain a remaining deformation. Total deflection of the fence was approximately 180 mm, no penetration or parts departed.

