# Impact test report Quick-Guard® Standard

Date	Place	Testing Company	
2016-01-11	Kungsbacka, Sweden	ABB Jokab Safety	
Report No:	Test method	_	
QG-TR-52	Test method stated in EN ISO 14120:2015 Annex C		

# Test object data

Test object	Infill material / panel	Panel fixation	Post profile
Quick-Guard	JSM YN40W1	JSM NL3	JSM A44A
Standard	Welded steel mesh 40/3,5	Net lock	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/s² (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 215 mm, no penetration or parts departed.

