

Test Report

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ADK/JET

Testing of guardrail system for commercial vehicles

For testing of one type guardrail system for commercial vehicles, performed on July 25, 2006, at the client.

Description

The guardrail system consisted of a U-shaped aluminium section at the bottom and at the top (handrail), interconnected with 5 posts made of square hollow aluminium sections. The handrail and posts folded into the bottom section by pneumatic operation. The guardrail system was connected to an aluminium gangway.

Testing

The system was loaded horizontally at the handrail and perpendicular to the handrail at the second post from one end, as shown in photo in enclosure 1. A fork lift truck was used as counter weight.

Results

The results are stated in table below and in enclosure 2.

Load in kN	Load in kg	Distance	Deflection
0	0	228	0
0,10	10,2	243	15
0,20	20,4	273	45
0,30	30,6	307	79
0,40	40,8	357	129
0,50	51,0	390	162
0,60	61,2	425	197
0,70	71,4	463	235
0,80	81,5	497	269
0,00	0,0	245	17 permanent

Date of testing: 2006-07-25.

Test equipment: Force HBM RSM-2T, 20 kN load cell, No 144930A and HBM MVD 2555, measuring amplifier.

Summary

The guardrail system sustained minimum 80 kg of loading without permanent deformation. The measured permanent setting of 17 mm occurred in the flanges of the gangway. After the loading the system was able to fold and unfold.

FORCE Technology
Materials and Product Testing

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