

# VARISTAR STATIC LOAD TEST REPORT

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**Test Item** VARISTAR SLIM LINE 800 width, 1200 depth and 2000 height

**Identification** Varistar SL frame 20130-172\_H  
Heavy load adaptor brackets 33130-039\_A and 33130-040\_A  
Panel mounts 30130-295\_H  
Heavy load slide rails 30130-516\_F

**Test Order** 1600 Kg static loading

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## 1. Assessment

The heavy load adaptor brackets (cross members), in combination with the 19" panel mounts, have successfully passed the loading test up to a total load of 2000 kg.

No damages could be observed, and the maximal displacement was approximately 3mm.

They can be released for a total load up to 1600 kg, with a 1.25 safety factor. It is accepted that the displacement is less than 2.5 mm.

## 2. Description of the test

### 2.1 Test equipment

5.1kg loading plates (440x725x2)

Dial indicators with digital display

### 2.2 Product tested

Varistar SL frame 20130-172\_H

Heavy load adaptor brackets 33130-039\_A and 33130-040\_A

Panel mounts 30130-295\_H

Heavy load slide rails 30130-516\_F

### 2.3 Test description and parameters

Cabinet is placed on the 25 mm thick metal plate in the R&D mechanical test area

Panel mounts are mounted with a 120 mm recess from front and 740 mm (server) between front and rear panel mounts

30 pairs of heavy load sliding rails are mounted every unit from 5th to 34th unit (from bottom) own weight approx. 95.1 kg (1.585 kg per slide rail)

Dial indicators are placed to measure the displacement from each panel mount

The 5.1 kg loading plates are progressively added, up to a total load of 2000 kg (including the weight of the slide rails). Displacements are picked up approx. every 400 kg

All loading plates are then removed, and the remaining displacement (with only the weight of the slide rails) is picked up.

### 3. Results

Load (kg)	Displacement (mm)			
	Front right panel mount	Rear right panel mount	Rear left panel mount	Front left panel mount
503.1	0.49	0.32	0.53	0.44
911.1	1.06	0.73	0.92	1.07
1314	1.77	1.16	1.26	1.76
1714	2.30	1.69	1.68	2.25
2000	2.86	2.19	2.12	2.74
95.1	1.34	0.89	0.81	1.22

The maximal displacement with a load of 2000 kg is less than 3 mm, with a remaining displacement of approx. 1 mm. No damages could be observed on the cabinet. The step is validated.

The maximal displacement with a load of 1600 kg, which is less than 2.5 mm, is accepted as well.

### 4. Enclosures



Picture 1 Frame with the 36 pairs of slide rails



Picture 2 Frame loaded with 2000 kg



Picture 3 Dial indicator to measure panel mount displacement