

Test report

VARISTAR SLIM LINE 600 width, 1200 depth and 2000 height (Test Object)

Identification: Varistar 20130-183
19" Upright powdered RAL7021 30130-291
Heavy load slide rails 30130-530

Test Order: 1600 Kg static loading

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Information about producer:
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List of contents

- 1 Assessment.....3**
- 2 Description of the test3**
 - 2.1 Test equipment..... 3
 - 2.2 Product tested 3
 - 2.3 Test description and parameters 3
- 3 Results3**
- 4 Enclosures4**

1 Assessment

Varistar Slime Line frame 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 2000H 600W 1200D (20130-183)

19" Upright powdered RAL7021 (30130-291)

Heavy load slide rails 30130-530

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 220 mm recess from front and 740 mm (server) between front and rear panel mounts, and fixed to the frame with 8 taptite screws. (60130-008)

36 pairs of heavy load sliding rails are mounted every unit from 5th to 40th unit (from bottom) own weight approx. 114.1 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.

3 Results

Load (kg)	Displacement (mm)			
	Front left panel mount	Front right panel mount	Rear right panel mount	Rear left panel mount
517	0.38	0.48	0.31	0.25
925	0.62	0.68	0.55	0.51
1307	1.40	1.51	1.32	1.28
1658	2.51	2.58	2.36	2.25
2000	3.16	3.10	3.06	2.94

The maximal displacement with a load of 2000 kg is approximately 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 indicators to measure panel mount displacement