# SEISMIC <br> Qualification Certificate 

Delivered on: Wednesday, 14 March 2018

## References:

- VIRLAB test procedure number 160808E1, issue 2, dated 20/02/2018: "STANDARD TEST PROCEDURE FOR THE SEISMIC QUALIFICATION OF ELECTRICAL CABINETS ACCORDING TO GR-63-CORE (ZONE 4), ISSUE 4".
- Point 5.4.1, Earthquake Test Methods, of TELCORDIA TECHNOLOGIES GENERIC REQUIREMENTS, "GR-63-CORE", Issue 4, April 2012:
- INTERNATIONAL STANDARD IEC 60068-2-6:2007: Environmental testing Part 2: Tests - Fc: Vibration (sinusoidal).
- INTERNATIONAL STANDARD IEC60068-2-47: 2005: "Environmental testing - Part 2-47: Tests. Mounting of specimens for vibration, impact and similar dynamic tests".

Laboratory Name: VIRLAB, S.A. (accredited by ENAC, Spanish National Accreditation Entity).
ENAC certificate number 54/LE131.
Laboratory Address: Polígono Industrial de Asteasu, Zona B - 44
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## Client: SILENTFLEX

Equipment tested: Two (2) Non Raised Floor Plinth, manufactured by SILENTFLEX, assembled together with two (2) Racks, as described here below:
o Drawing: A150710 - STR - BANCADA GENERAL SUELO BANCADA COMPLETA - R0, dated 01/09/2016
o Each Rack Dimensions: 800 (width) x 1200 (depth) x 2150 (height) mm
o Assembly Dimensions: 1600 (width) x 1200 (depth) x 2150 (height) mm
o Weight: $\sim 750 \mathrm{Kg}$ (Rack) +100 Kg (Bench), for a total of 1700 Kg

Pictures included here below show the Assembly on the test platform, in front-to-back, " X ", and side-toside, " Y ", directions. Vertical tests have been performed with the Assembly on the test platform mounted on the same way as in the side-to-side, "Y", direction.


VIRLAB, S.A., certifies that the Non Raised Floor Plinths with the Racks described here above has been tested in its laboratory of ASTEASU (Spain) the $13^{\text {nd }}$ March 2018, as describe in test procedure number 160808E1, Issue 2, of VIRLAB, elaborated according to Point 5.4.1, Earthquake Test Methods, of TELCORDIA TECHNOLOGIES GENERIC REQUIREMENTS, "GR-63-CORE", Issue 4.

The Assembly has been submitted to the tests described here below:
$>$ Resonance search tests, between 1-50-1 Hz, with an acceleration level of 0.2 g , independently performed in each one of the three main directions of the Assembly, vertical (Z). front-to-back (X), and side-to-side (Y).
> Seismic tests, consisting of one (1) test, 30 seconds duration, independently applied in vertical "Z", and in horizontal, "X" (front-to-back) and "Y" (side-to-side) directions. The applicable Required Response Spectra, RRS (2\% damping), considers a Zero Period Acceleration of $1,6 \mathrm{~g}$, as included here below:

[^0]VIRLAB, S.A.
Division of URBAR INGENIEROS, S.A.
VF-AB


This Assembly has successfully passed the Seismic Tests, to which it has been subjected, maintaining their structural integrity, without any anomaly or structural deterioration having been detected.

Test report number 182728 of VIRLAB, S.A., will include all the information obtained, with tables, photographs, used measuring devices calibration certificates, and other relevant information.

## VIRLAB representative




[^0]:    NOTE: According to Section 5.10.2 of Standard ISO-IEC 17025:2005, it is stated that the results of the present certificate apply only and exclusively to the samples subjected to test.

