SEISMIC
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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20159 ASTEAU (SPAIN)

***Client**:* **SILENTFLEX**

Equipment tested**:* Two (2) ***Non Raised Floor Plinth, manufactured by **SILENTFLEX,** assembled together with two (2) *Racks*, as described here below:

- Drawing: A152270 - BANCADA SUELO CON TOPES VERTICALES – BANCADA COMPLETA - R0, dated 22/01/2018
- Each Rack Dimensions: 800 (width) x 1200 (depth) x 2150 (height) mm
- Assembly Dimensions: 1600 (width) x 1200 (depth) x 2150 (height) mm
- Weight: ~750 Kg *(Rack)* + 100 Kg *(Bench)*, for a total of 1700Kg

Pictures included here below show the ***Assembly*** on the test platform, in *front-to-back*, "X", and *side-to-side*, "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.

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.*

"X & Z" Direction

"Y" Direction

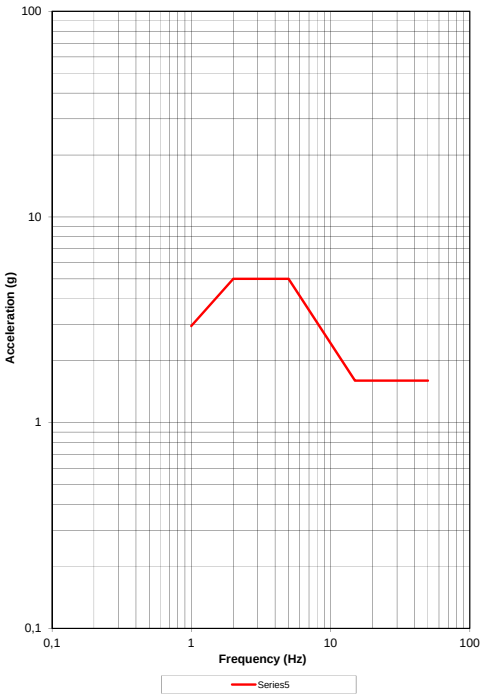
VIRLAB, S.A., certifies that the ***Non Raised Floor Plinths*** with the *Racks* described here above has been tested in its laboratory of ASTEASU (Spain) the 13nd March 2018, as describe in test procedure number **160808E1,** Issue 2, of VIRLAB, elaborated according to **Point 5.4.1**, *Earthquake Test 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 g, as included here below:

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.*

REQUIRED RESPONSE SPECTRA, RRS (2%)
ZONE 4 - HORIZONTAL & VERTICAL



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

LABORATORIO DE ENSAYOS DE VIBRACIÓN VIRLAB

Mr. Jon IRIZAR
Laboratory Engineer

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.*