



REX POWER MAGNETICS

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Seismic Qualification and Certification

Many projects require non-structural components, including electrical equipment to be “Seismic Certified” to ensure the equipment will withstand and operate after a seismic event.

The International Building Code 2018 (IBC 2018) and the California Building Code 2019 (CBC 2019) define seismic requirements. The most common testing procedure used for IBC applications is ICC-ES AC156, which specifies a specific input motion to which nonstructural components should be subjected.

Rex Power Magnetics’ transformers were shake table tested per ICC-ES AC156(2010) for Seismic withstand capability in accordance with the combined requirements of IBC 2018, CBC 2019 and NBC2020. Based on the successful completion of these tests, Rex Power Magnetics has been granted the following Special Seismic Certifications:

TRU Compliance Special Seismic Certification:

Report No: [1900565-CRS-001-R3](#)
Building Code: IBC 2021, CBC 2022
Seismic Levels $S_{DS} = 2.05g$, $z/h = 1.0$, $I_p = 1.5$ (rooftop installation)
 $S_{DS} = 2.05g$, $z/h = 0.0$, $I_p = 1.5$ (ground level installation)

TRU Compliance Special Seismic Certification:

Report No: [1900565-CRS-002-R0](#)
Building Code: NBC 2020
Seismic Levels $S(0.2) = 2.28g$, $I_E=1.5$, $C_p=1.0$, $h_x/h_n = 1.0$ (rooftop installation)
 $S(0.2) = 2.28g$, $I_E=1.5$, $C_p=1.0$, $h_x/h_n = 0.0$ (ground level installation)

HCAI Special Seismic Certification Preapproval (OSP):

OSP: [OSP-0332](#)
Building Code: CBC 2022
Seismic Levels $S_{DS} = 2.05g$, $z/h = 1.0$, $I_p = 1.5$ (rooftop installation)
 $S_{DS} = 2.05g$, $z/h = 0.0$, $I_p = 1.5$ (ground level installation)

NOTE: These certification limits apply for solid base mounted transformers. Seismic requirements of anchors and anchoring requirements should be addressed by building and site engineers.

When required, Rex Power Magnetics can design and manufacture transformers in compliance with these certifications. For additional information, contact Rex Power Magnetics.