



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 for Seismic withstand capability in accordance with the combined requirements of IBC 2018 and CBC 2019. 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-R2
Building Code: IBC2018, CBC 2019
Test Criteria ICC-ES AC156 (2018)
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)
Mounting: Rigid, Base Mounted

For specific products included in this special seismic certification, refer to [TRU report No 1900565-CRS-001-R3](#)

HCAI (Previously OSHPD) Special Seismic Certification Preapproval:

OSP: OSP-0332
Building Code: CBC 2019
Test Criteria ICC-ES AC156 (2018)
Product Type: Transformers – Dry Type
Seismic Levels $S_{DS} = 2.05g$, $z/h = 1.0$, $I_p = 1.5$
Mounting: Rigid, Base Mounted

For specific products included in the HCAI Special Seismic Certification Preapproval, refer to [OSP-0332](#)

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.