

BURNDY[®]

Cable Support Systems

SEISMIC QUOTING TERMS & CONDITIONS

Burndy Cable Support Systems mission is to balance minimum material cost with maximum seismic performance. We aim to provide buildable and economical practical solutions which minimize labour costs while meeting relevant engineering standards.

The following notes cover the scope of work for the seismic structural design of suspended services installed by the contractor to check for general compliance with AS1170.4, Section 8.

Scope of work:

1. Seismic design and documentation by Burndy for Electrical suspended services installed by contractor.
2. Provision of seismic design certificate.
3. Site inspections and installation certification not included in quoted scope.
 - Installation certification may not be required for all projects, or the contractor may choose to certify their own installation. Alternatively, the contractor may choose to engage a local/site engineer or certifier to undertake the inspection and certification of the installation.
 - If required and where deemed appropriate, Burndy may be engaged directly to quote an installation certification via a photo review, Burndy must be engaged directly to quote and undertake this service. Burndy must be engaged for this service prior to undertaking the seismic design.

Assumptions:

1. Importance level 2 or 3 building.
2. Any scope not clearly present on the documents provided for the purpose of the estimate is excluded from the scope of this estimate.
3. V.LOCK seismic materials estimate is subject to final engineering. Excludes anchors or any other hardware.
4. All concrete anchors are to be C1 seismic rated. BURNDY can provide advice on seismic anchors.
5. Services are suspended by M10 threaded rod (minimum) and strut <1300mm from the structural soffit.
6. Trapeze/anchor spacing at maximum 1.5m for Electrical, 2.4m for Mechanical and 3.0m for Fire.
7. Any suspended electrical/comms cable trays/cages assumed to require bracing.
8. Pipework is individually supported by nut clips or on trapeze with saddle clamps. Pear clips or similar are not suitable for seismic lateral loads.
9. Individually hung pressurised wet pipes on nutclips, <64mm ID and mounted close to soffit with seismic rated anchors will not require restraint.
10. Individually hung gravity PVC drainage pipes on nutclips, <150mm ID and mounted close to soffit with seismic rated anchors will generally not require restraint.
11. Pipework is individually supported by nut clips or on trapeze with saddle clamps. Pear clips or similar are not suitable for seismic lateral loads.
12. Pipework is assumed to be suspended on shared trapezes when running parallel and generally requires bracing.
13. All wet fire pipework (mains or hydrant) assumed to require seismic bracing (Further information on anchors, spacings, rod size and hanging heights may change this in the design phase).
14. All wet fire pipework (sprinklers) assumed to be installed with rated seismic fixings and close to the soffit, will generally not require additional seismic bracing (Further information on anchors, spacings, rod size and hanging heights may change this in the design phase).
15. Individually hung copper gas pipe on nut clips or equivalent, <25mm ID and mounted close to soffit with seismic rated anchors will generally not require restraint.
16. Ductwork <0.4m² or <700mm dia, individually supported with seismic rated anchors will generally not require additional seismic restraint.
17. Inline fans <10kg will generally not require seismic bracing.
18. Vertical fans to be supported by typical strut bracketry to structural wall or at roof penetration.
19. Attenuators and Branch Controllers generally assumed to require seismic bracing.
20. Cassettes and Suspended FCUs assumed to require seismic bracing.
21. Any floor/wall mounted equipment is suitably anchored to floor/wall structure to prevent overturning/sliding.
22. Any risers to have their bracketry fixed to structure with appropriately sized seismic rated anchors.
23. Any untouched existing services are excluded from seismic assessment and scope.

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24. Installation to either sealed internal environment or external non-saline environment (plant rooms assumed to be equivalent of external non-saline environment). Design for severe corrosion category not included.
25. Services are not fire rated.
26. All rooftop equipment to be suitably anchored to roof structure or structural platform to prevent overturning/sliding.
27. BURNDY can certify hold-down connection of plant equipment (either to base structure or rigid frames by others). Please discuss with BURNDY for a quote to include plant equipment.
28. Design for gravity hangers, fire, wind, fatigue, and/or live load cases by others (seismic design only).
29. Multiple design revisions are not included.
30. As Built documentation is not included.
31. Revit/BIM drafting and/or modelling is not included.
32. Clash detection and coordination is not included.
33. Structural design of risers is not included.
34. Expansion/movement joints by others.
35. A set of PDF drawing mark-ups will be provided for the seismic design.
36. BURNDY are to commence seismic design on fully coordinated construction-issue services documentation, and may need to review and revise quotation to suit.
37. BURNDY generally require a 2-week turnaround depending on project size. Please discuss with BURNDY for urgent requirements.
38. BURNDY are an independent consulting business and the engineering, review, inspection, and certification fees indicated above are an estimate. BURNDY reserve the right to quote at time of acceptance.