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Loxo Cladding NZ Ltd

By email ([m.stufkens@loxocladding.co.nz](mailto:m.stufkens@loxocladding.co.nz))

Attention: To whom this may concern

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## RE: Loxo Cladding, Wellington sites

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We are writing to confirm the structural suitability of Loxo Cladding Systems for the residential buildings in Wellington area.

We have assessed the general site conditions and the possible applied loads to the Loxo façade for buildings in the Wellington region for wind and earthquake loading. It has been determined by calculation in accordance with AS/NZS 1170 that the applied lateral loadings on the panel system is governed by wind loading. Typical sites in the Wellington region fall with two predominant wind categories. These are Extra High wind zone (55.6m/s) and SED (specific engineering design). For the SED wind loading we have proposed a maximum wind speed of 94m/s.

Cladding height from the natural ground to the uppermost section of cladding has been limited to 7.5m in accordance with the existing Loxo specifications for all buildings in this assessment.

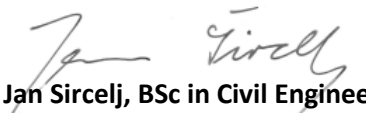
It has been determined that that standard Loxo cladding system with studs spaced at 600mm crs and a maximum cladding cantilever of 400mm using the 14g bugle screw fixing pattern as per manufacturer's existing specifications has sufficient capacity to resist an extra high wind loading for a site wind speed of up to 55.6m/s.

In order to comply with a SED wind loading for a site wind speeds up to 94m/s the stud spacing is to be decreased to a maximum of 400mm centres and the maximum cladding cantilever reduced to 200mm at the end of the panel. Each panel is to be fixed as per the existing fixing layout with two screws to the ends of the panel and single screws to each intermediate stud.

Further to the limitations above we confirm the Loxo Cladding System is structurally suitable for application in the Wellington area.

Yours sincerely,

**TM CONSULTANTS LIMITED**

  
**Jan Sircelj, BSc in Civil Engineering - Structures**



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