

October 11, 2018

### **Santa Rosa Assisted Living Building Envelope Sound Reduction Parameters**

The noise standard used by the City of Santa Rosa include the Land Use Compatibility Standards for Community Noise environment (Figure 12-1), State of California Noise Insulation Standards (California Code of Regulations, Title 24, Part 2), and applicable standards in the City of Santa Rosa Noise Ordinance. General Plan policies address noise attenuation along major regional/arterial street through location of land uses, site design, architectural standards, barriers, and street materials.

Figure 12-2, found in the Land Use Compatibility Standards, illustrates the projected noise contours. The noise contour identified for Piner Road adherent to the proposed development is 65 dba. The building will be designed to comply with the required building codes utilized by the city of Santa Rosa.

According to the California Green Building Standards Code section 5.507.4.1.1, buildings exposed to a noise level of 65dB during any hour of operation are required to have exterior wall and roof-ceiling assemblies to have a minimum STC rating of 45 and windows to have an STC of 40.

The exterior wall and roof-ceiling assemblies that are required to meet building/energy codes will be designed to comply with or exceed the required STC rating. Windows will be specified as Milgard Quietline or equivalent which can achieve STC ratings up to 48. The exterior envelope will meet or exceed the requirements of CGBSC section 5.507.4.1.1.

