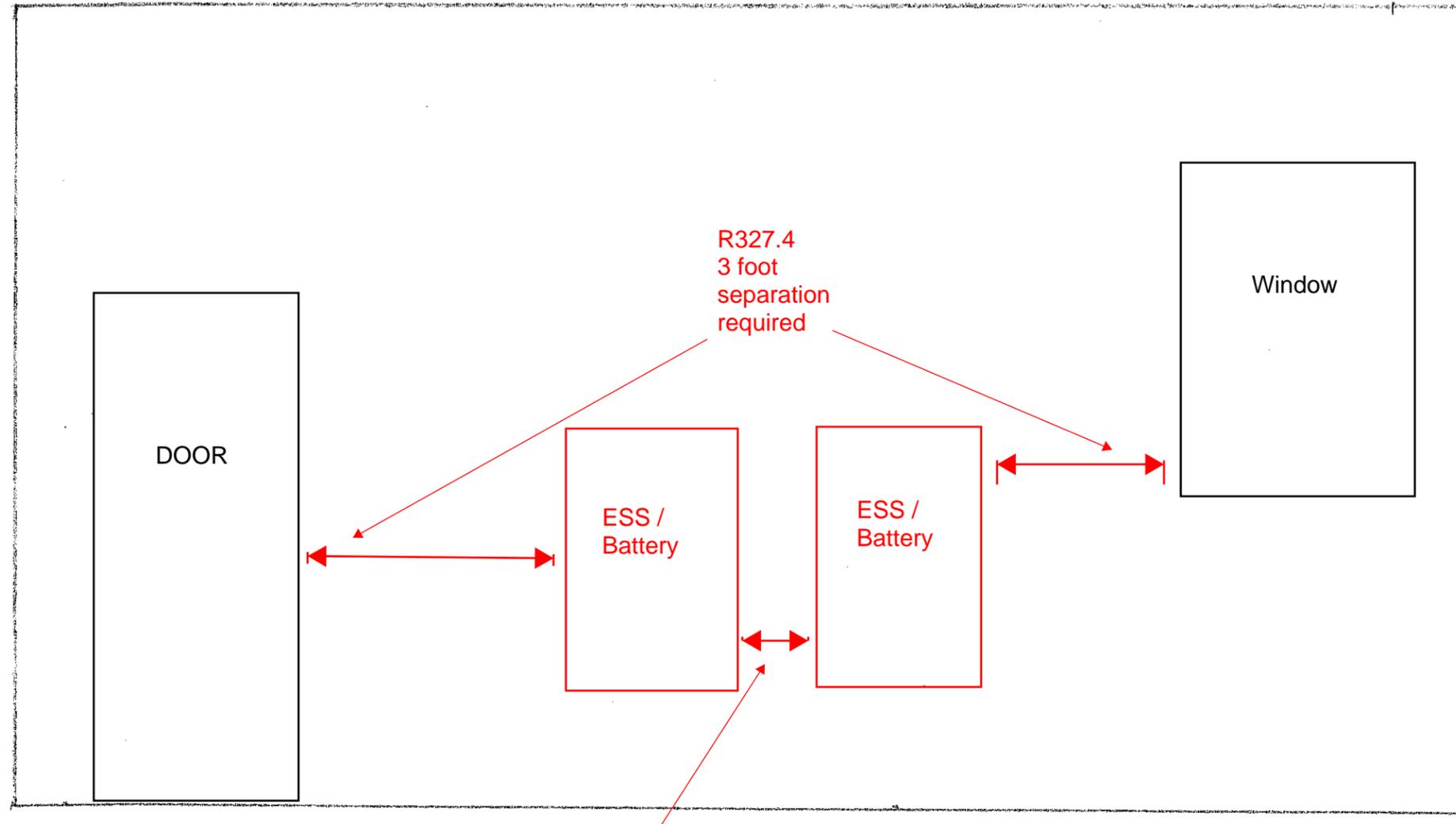


Basic Code ESS (Energy Storage Systems) / Battery Layout - SAMPLE ONLY - not to be used for submittals  
 This handout is designed to provide a visual aid to the California Residential Code Requirements for location of ESS / Battery's . Each project is individual, additional submittal requirements and or information might be necessary based on the actual scope of the project.



R327.5 Energy ratings. Individual ESS units shall have a maximum rating of 20 kWh. The aggregate rating of the ESS shall not exceed:

1. 40 kWh within utility closets, basements, and storage or utility spaces.
2. 80 kWh in attached or detached garages and detached accessory structures.
3. 80 kWh on exterior walls.
4. 80 kWh outdoors on the ground.

ESS installations exceeding the permitted individual or aggregate ratings shall be installed in accordance with Sections 1206.1 through 1206.9 of the California Fire Code.

2019 California Residential Code R327.3.1  
 R327.3.1 Spacing Individual units shall be separated from each other by not less than 3 feet (914 mm) except where smaller separation distances are documented to be adequate based on large-scale fire testing complying with Section 1206.1.5 of the California Fire Code

3 foot separation is from all sides of the Energy storage system, front, back, top, bottom and sides.

Per Woodside Fire Protection District: Batteries located inside shall be located a minimum of 18" off the floor.

2019 California Residential Code: R327.4  
 R327.4 Locations. ESS shall be installed only in the following locations:

1. Detached garages and detached accessory structures.
2. Attached garages separated from the dwelling unit living space in accordance with Section R302.6.
3. Outdoors or on the exterior side of exterior walls located not less than 3 feet (914 mm) from doors and windows directly entering the dwelling unit.
4. Enclosed utility closets, basements, storage or utility spaces within dwelling units with finished or noncombustible walls and ceilings. Walls and ceilings of unfinished wood-framed construction shall be provided with not less than 5/8 inch Type X gypsum wallboard. ESS shall not be installed in sleeping rooms, closets, spaces opening directly into sleeping rooms or in habitable spaces of dwelling units.