

- b. Uniform load of 50 lbf/ft. (730 N/m) applied in any direction.
- c. Concentrated and uniform loads above need not be assumed to act concurrently.
- 3. Balustrade System: Capable of withstanding a horizontal concentrated load of 200 lbf (890 N) applied to 1 sq. ft. (0.09 sq. m) at any point in system.
 - a. Load above need not be assumed to act concurrently with loads on top rails in determining stress on guard.
- E. Structural Performance of High Tension Cable Barrier / Car Stop: Provide industrial grade galvanized aircraft cable guardrail capable of withstanding structural loads required by ASCE 7 and NCHRP 350 without exceeding allowable design working stresses of materials for aircraft cable and connections.
- F. Thermal Movements: Provide handrails and railings that allow for thermal movements resulting from the following maximum change (range) in ambient and surface temperatures by preventing buckling, opening of joints, overstressing of components, failure of connections, and other detrimental effects. Base engineering calculation on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.
 - 1. Temperature Change (Range): 120 deg F (67 deg C), ambient; 180 deg F (100 deg C), material surfaces.
 - 2. Control of Corrosion: Prevent galvanic action and other forms of corrosion by insulating metals and other materials from direct contact with incompatible materials.