

## 1.0 **GENERAL**

- 1.1 Unique materials and complicated designs or detailing may be difficult or impossible to replace when repairs are needed over time and should be avoided in favor of standard materials that can be easily obtained from local suppliers and sources over time.
- 1.2 Any necessary repair and replacement of site furnishings that utilize non-standard materials or complicated designs, **or are movable and not fixed in place**, will be customer funded expenses of the unit that has requested these site furnishings.
- 1.3 **Movable site furnishings are the responsibility of the sponsor and must not be placed in locations that obstruct standard maintenance and operation.**

## 2.0 **DESIGN REQUIREMENTS**

- 2.1 UBC preferences for site furnishings including benches, waste receptacles, and light standards are referenced in the Vancouver Campus Plan, Design Guidelines unless otherwise noted in this section.
- 2.2 Provide minimum 2.2m spacing between bollard to allow passage of landscape and snow removal equipment.
- 2.3 Site furnishings must be attached using load-appropriate anchors and tamper-proof bolts and fittings.
- 2.4 It is imperative that hard landscape steps, furniture, walls and railings are designed to be resistant to skateboarding damages. After-the-fact add-on straps and studs are less desirable than surfaces that have been pre-considered as targets, and aesthetically designed to deter skateboarders. Preferred deterrents should be considered at the schematic design stage. Design strategies should include incorporation of air gaps, notching, and offsets in seat walls, uneven surfaces, and other creative alignments and articulation of surfaces, walls, steps and railings.
- 2.5 Minimum one year warranty on all site furnishings.
- 2.6 Minimum five-year warranty on garbage receptacles.

## 3.0 **MATERIALS**

- 3.1 Materials, **including structural components and fasteners, must be rust and corrosion resistant.**
- 3.2 Materials **must** be resistant to vandalism and to damage from skateboarders.
- 3.3 **Use of tropical hardwoods in site furnishings is not permitted.**
- 3.4 Selection of materials should be environmentally responsible including consideration of embodied energy of production and avoidance of endangered wood sources.
- 3.5 **Clear vertical grain Cedar is to be utilized in custom designed benches and other site furniture as appropriate.**
- 3.6 **Bike Racks: Exterior bike racks installed on campus are to accommodate locking of the front wheel, rear wheel and the frame if desired by the user. UBC has adopted the use of a standard inverted U-style rack as follows.**
  - .1 Manufacturer: Urban Racks (Phone 888-717-8881) or approved equivalent.
  - .2 Model: SU20-E-G (or SS)-CB

- .3 Height 36"
- .4 Width
- .5 2" Schedule 40 steel pipe with flat horizontal cross bar
- .6 Finish: Hot-dipped galvanized or stainless steel

Bike Rack Spacing:

- i. Inverted U-Racks in a row shall be placed between 865mm and 915mm from centre of rack to centre of rack. This allows room for two bicycles to be secured to each rack.
- ii. If adjacent to landscaping, bike racks should be offset 600mm from the landscaping.
- iii. If adjacent to a wall, bike racks should be offset 300mm from the wall.
- iv. The depth of a row of bike racks is to be at least 2.4m.
- v. If designing for multiple rows of bike racks, the aisle space between parked bikes is to be at least 1.2m

Location and Mounting:

- i. Racks are to be surface mounted on a concrete pad at a convenient, weather protected, well-lit location that can be easily accessed by visitors, and seen by occupants of the building.
- ii. Mounting hardware shall be as flush as possible to the ground using 3/8" x 5" anchors and shall include one tamper proof nut per leg of the bicycle rack.
- iii. At the discretion of Campus and Community Planning, bicycle rack installation may be embedded into concrete, rather than surface mounted.
- iv. Where concrete unit paving is used as a surface treatment, installation options include pouring small concrete pads, concrete footing, or embedding the rack in a concrete slab below the unit pavers (least preferred).
- v. Location of racks must not interfere with emergency access routes, pedestrian routes, fire connection points or hydrants and must allow for barrier-free access to the building.

- 3.7 Local supply of materials is preferred.

**\*\*\*END OF SECTION\*\*\***