Railing Systems for Parking Garages

Parking garages typically require railing in the stairwells and on the exterior walls.

While stairs require railing that meets IBC code with infill panels, the railing required for exterior walls is dependent on the height of the existing parapet wall.

The 2003 IBC building code requires railing meet the following requirements:
- 42 inches in height from the walking surface
- Railing up to 34 inches in height, infill panels must prevent a 4” sphere from passing
- Railing 34 to 42 inches in height, infill must prevent a sphere of 8” from passing.

The newer 2009 IBC changes this code such that:
- Railing up to 36 inches a 4” sphere cannot pass and from 36 to 42 inches, a 4-3/8” sphere cannot pass.

Parking garage market needs:
- On stairs with high traffic, anodized aluminum top rails provide a longer lasting, lower maintenance surface than paint.
- Since parking garages are exposed to outside climate conditions, corrosion resistance is key.
  - Hollander’s combination of anodized aluminum frame, and infill panels that are can be glass, acrylic, or DuoShield™ coated metal (e-coat primer, AAMA 2604 powder top coat) provide a low maintenance, corrosion resistant system that is long lasting.
- Architects and owners want a variety of choices in infill panels, since that is what has the most aesthetic effect on the overall railing appearance.
  - Hollander’s Interna-Rail® and Speed-Rail® frames can accept whatever infill panel meets the ownerships’ aesthetic requirements.

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Village Center Parking Garage
Denver, Colorado

Railing: Interna-Rail®, clear anodized aluminum
Architect: Davis Partnership Architects – Denver, Colorado

Due to the height of an existing parapet wall and an opening limitation of 8” from 34” to 42” horizontal picket railing was utilized.
Dayton International Airport Parking Garage
Dayton, Ohio

Railing: Interna-Rail® frame, clear anodized aluminum
Infill: 3/8” Acrylic Panels with a custom designed History of Flight theme using designs from local students
Architect: Levin-Porter Architects – Dayton, Ohio