CLAIMS

What is claimed is:

1. A balcony system, comprising:

a balcony beam including a first end and a second end, wherein each of the first end and the second end are configured to attach to corresponding structural frame members of a building;

a channel balcony frame;

a balcony beam attachment member attached to the balcony beam and having one or more apertures;

one or more reinforcement bars disposed in an interior space defined by the channel balcony frame, wherein the one or more reinforcement bars extend through the one or more apertures in the balcony beam attachment member, and wherein the reinforcement bars and the balcony beam attachment member are held in place within the interior space defined by the channel balcony frame by a balcony floor formed within the interior space defined by the channel balcony frame, such that, after the balcony floor is formed, the balcony beam, channel balcony frame, and balcony floor form an integral unit;

one or more guardrail support brackets attached to the channel balcony frame via one or more fasteners that pass through the one or more guardrail support brackets and into the interior space defined by the channel balcony frame, wherein the one or more guardrail support brackets are secured in place by the balcony floor formed within the interior space defined by the channel balcony frame;

one or more stanchion guardrail supports each attached to a respective one of the one or more guardrail support brackets and secured in place by a corresponding closure plate;

a guardrail attached to the one or more stanchion guardrail supports;

one or more horizontal guardrail members attached to the one or more stanchion guardrail supports; and

one or more guardrail panels attached to the one or more horizontal guardrail members.

2. The balcony system of claim 1, wherein each of the first end and the second end include a respective plate to couple the balcony beam to the corresponding structural frame members of the building.

3. The balcony system of claim 1, wherein the channel balcony frame has a rectangular shape.

4. The balcony system of claim 1, wherein the channel balcony frame includes one or more stanchion guard rail support apertures each configured to enable a respective stanchion guard rail support to pass through a respective stanchion guard rail support aperture.

5. The balcony system of claim 1, wherein the channel balcony frame is formed from stainless steel and the balcony floor is formed from concrete.

6. The balcony system of claim 1, further comprising a light element coupled to the one or more stanchion guardrail supports.

7. The balcony system of claim 1, wherein the one or more guardrail panels include one or more of tempered glass, metal mesh, polycarbonate, photovoltaic panels, or resin panels.

8. A false balcony system, comprising:

a balcony beam including a first end and a second end, wherein each of the first end and the second end are configured to attach to corresponding structural frame members of a building;

a balcony beam attachment member attached to the balcony beam such that the balcony beam attachment member and the balcony beam form an integral unit, wherein the balcony beam attachment member includes one or more apertures;

one or more guardrail support brackets attached to the balcony beam attachment member via one or more fasteners that pass through the one or more guardrail support brackets and through a respective aperture in the balcony beam attachment member;

one or more stanchion guardrail supports each attached to a respective one of the one or more guardrail support brackets and secured in place by a corresponding closure plate;

a guardrail attached to the one or more stanchion guardrail supports;

one or more horizontal guardrail members attached to the one or more stanchion guardrail supports; and

one or more guardrail panels attached to the one or more horizontal guardrail members.

9. The false balcony system of claim 8, wherein each of the first end and the second end include a respective plate to couple the balcony beam to the corresponding structural frame members of the building.

10. The false balcony system of claim 8, further comprising a light element coupled to the one or more stanchion guardrail supports.

11. The false balcony system of claim 8, wherein the guardrail panels include one or more of tempered glass, metal mesh, polycarbonate, photovoltaic panels, or resin panels.

12. A method to make and install a balcony system, the method comprising:

forming a balcony beam having a first end and a second end;

forming a channel balcony frame;

forming a balcony beam attachment member having one or more apertures;

attaching the balcony beam attachment member to the balcony beam;

attaching guardrail support brackets to the channel balcony frame via one or more fasteners that pass through the guardrail support brackets and into an interior space defined by the channel balcony frame;

forming a balcony floor within ~~a~~ the interior space defined by the channel balcony frame to form an integral balcony unit that includes the balcony beam, the channel balcony frame, and the balcony floor, wherein the guardrail support brackets are secured in place by the balcony floor formed within the interior space defined by the channel balcony frame;

providing the integral balcony unit and guardrail parts to a construction site of a building, wherein the guardrail parts include a guardrail and one or more stanchion guardrail supports;

attaching the integral balcony unit to a structural frame of the building, by attaching the first end and the second end of the balcony beam to corresponding structural frame members of the building;

attaching the guardrail parts to the integral balcony unit, by:

attaching the one or more stanchion guardrail supports to a respective one of guardrail support brackets and securing the one or more stanchion guardrail supports in

place by a corresponding closure plate; and

attaching the guardrail to the one or more stanchion guardrail supports; and

attaching one or more guardrail panels to the guardrail.

13. The method of claim 12, ~~further comprising~~ wherein attaching the first end and the second end of the balcony beam to the corresponding structural frame members of the building comprises:

attaching a respective plate to each of the first end and the second end of the balcony beam to couple the balcony beam to the structural frame of the building.

14. The method of claim 12, wherein forming the channel balcony frame comprises forming the channel balcony frame in a rectangular shape.

15. The method of claim 12, wherein the channel balcony frame includes one or more stanchion guard rail support apertures, and wherein ~~each configured~~ a respective stanchion guard rail support is configured to pass through a respective stanchion guard rail support aperture.

16. The method of claim 12, wherein forming the channel balcony frame comprises forming the channel balcony frame from stainless steel.

17. The method of claim 12, wherein the guardrail panels include one or more of tempered glass, metal mesh, polycarbonate, photovoltaic panels, or resin panels.

18. A method to make and install a false balcony system, the method comprising:

forming a balcony beam having a first end and a second end;

forming a balcony beam attachment member having one or more apertures;

attaching the balcony beam attachment member to the balcony beam to form an integral balcony unit;

attaching one or more guardrail support brackets to the balcony beam attachment member via one or more fasteners that pass through the one or more guardrail support brackets and through a respective aperture in the balcony beam attachment member;

providing the integral balcony unit and guardrail parts to a construction site of a building, wherein the guardrail parts include a guardrail and one or more stanchion guardrail supports;

attaching the integral balcony unit to a structural frame of the building, by attaching each of the first end and the second end of the balcony beam to corresponding structural frame members of the building;

attaching the guardrail parts to the integral balcony unit, by:

attaching the one or more stanchion guardrail supports to a respective one of the one or more guardrail support brackets and securing the one or more stanchion guardrail supports in place by a corresponding closure plate; and

attaching the guardrail to the one or more stanchion guardrail supports; and

attaching one or more guardrail panels to the guardrail.

19. The method of claim 18, ~~further comprising~~ wherein attaching the first end and the second end of the balcony beam to the corresponding structural frame members of the building comprises:

attaching a respective plate to each of the first end and the second end of the balcony beam to couple the balcony beam to the structural frame of the building.

20. The method of claim 18, wherein the guardrail panels include one or more of tempered glass, metal mesh, polycarbonate, photovoltaic panels, or resin panels.