



RETROFITTING GLASS BALCONIES.

IS IT:

Product

Technology

Equipment

APPLICABLE FOR:

Restoration

Rehabilitation

New Construction

APPLICABLE ON:

1. Foundations and underground structures

5. Façade and building envelope

2. Vertical structures

6. Finishes and completion elements

3. Horizontal structures and vertical connections

7. Integrated services

4. Roof and terraces

8. General strategies for building recovery

Related companies: GLASS BALUSTRADES.

DESCRIPTION

Retrofitting glass balconies onto an older property is an excellent way to update a building's exterior. This isn't difficult, provided the underlying structure is strong enough to hold the extra weight of the glass.

A "glass balcony" is a bit of a misnomer but used frequently, as generally the platform projecting out from the wall is not made of glass but if you have a sturdy platform, then the old railing can be taken off and a new glass balustrade attached to it and secured to the main structure of the building at the same time.

WHY TO USE

- Maintenance free
- Easy to fit
- No glass clamps
- Minimal posts required
- No corner posts
- Super strong and tested system
- The most proven track record
- Curved options are readily available
- Very reasonably priced

HOW TO USE AND APPLY

None of balustrades require corner posts or ugly clamps along the glass, or anywhere in fact.

Glass balustrades are supported at the top and bottom only (and in the case of our Fully Frameless models, the glass is only held at the bottom).

Handrails are engineered to take a lot of the stress that leaning against the glass will cause, therefore the toughened glass doesn't need to be so thick, isn't so heavy and is less expensive to buy and support.

Technical procedure:

<https://www.youtube.com/watch?v=79oe0SVxPSY>

The below is a concise summary of how to install the Orbit system glass balustrade:

1. Place handrail on the floor in position to ensure that dimensions fit
2. Mark lines for later positioning of bottom track
3. Using a level, mark the handrail position at the correct height.

4. Fix the stainless-steel end angle brackets firmly to wall, do this both sides.
5. Lift handrail and drop onto angle brackets
6. Drill 4mm holes through brackets into handrail, fix together with 4.8mm self-tap screws, do this both sides. If the balustrade is large or a shape that will sag, you will need to prop up the handrail until the glass is fitted and silicone in place.
7. Install/fix bottom track, use line made earlier. Ensure aligned with glass slot in handrail above.
8. Remove glazing beads top and bottom, if in place.
9. Dab silicone to hold two spaces for each glass.
10. Identify glass sizes and where they are located.
11. Use extra spacers to ensure the spacers are high enough to clear screw heads on the bottom track.
12. Place glass in position one at a time.
13. Use small pieces of glazing bead and 3mm rubber gaskets to hold glass temporarily in place.
14. Place all glass in the same fashion with 4 small pieces of glazing bead and 3mm rubber gaskets to hold each glass.
15. Once all glass is in place, use additional spacers to level out/align glass heights and gaps in between.
16. Place spacers between glass and handrail to ensure handrail is not resting on the glass, to prevent sagging.
17. Use silicone, to fill gap continuously and completely between top of glass and underside of handrail.
18. Use silicone, to fill gap continuously and completely between bottom of glass and track.
19. When silicone is completely dry, remove the temporary small glazing beads and rubber gaskets.
20. Replace the full-length glazing beads.
21. Insert 3mm rubber gaskets into handrail and bottom track, between glass and glazing beads.
22. Use soap and water to ease fitting of gaskets.

TECHNICAL CHARACTERISTICS

Available in 4 standard color finishes: White powder coating, Silver Anodized, Bronze Anodized and Balcony Systems' Proprietary Royal Chrome Anodized finish. All finishes come with Balcony Systems' 10-year Guarantee.

All standard size glass balustrades come with 10mm clear toughened glass. Custom balustrading can be supplied with a choice of different tints: clear, green, grey, bronze,



and blue. All glass types can be supplied with the unique double sided self-cleaning glass coating.

RECOMMENDATIONS AND OTHER INFORMATION

Balustrades are straightforward to install and fit, but you can choose whether to go for supply-only and install the balustrade yourself .

There is no doubt that a glass balustrade adds elegance to any home or commercial property. A glass banister, glass balustrading or a glass balcony, are stylish features that work handsomely in almost any decorative or architectural context. They combine their own beauty with less obstructed views and the practicalities of wind-breaking, durability and easy cleaning and maintenance.

EXAMPLES

Stainless steel balcony railings with tempered glass are some of the safest and most modern railings today (Figure 1). It goes well with new homes and helps to renovate old ones. The partitions of the tempered glass balcony are very difficult to break. If the glass barrier still breaks, it will fall into very small glasses, thus preventing injuries or damage to other objects.

REFERENCES / SOURCES AND LITERATURE

<https://www.balconette.co.uk/glass-balustrade/articles/retrofitting-glass-balconies>

<https://www.balconette.co.uk/glass-balustrade/homepage>

<https://vaidmanta.lt/balkonu-tureklai-su-grudintu-stiklu/#>

WEBSITE OF THE COMPANY

<https://www.balconette.co.uk>



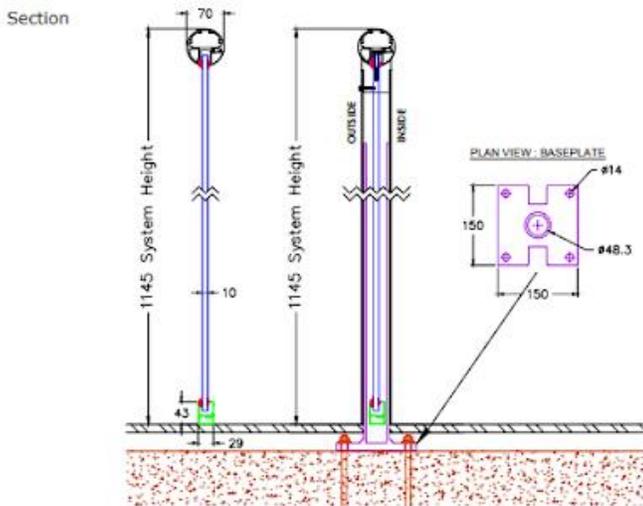
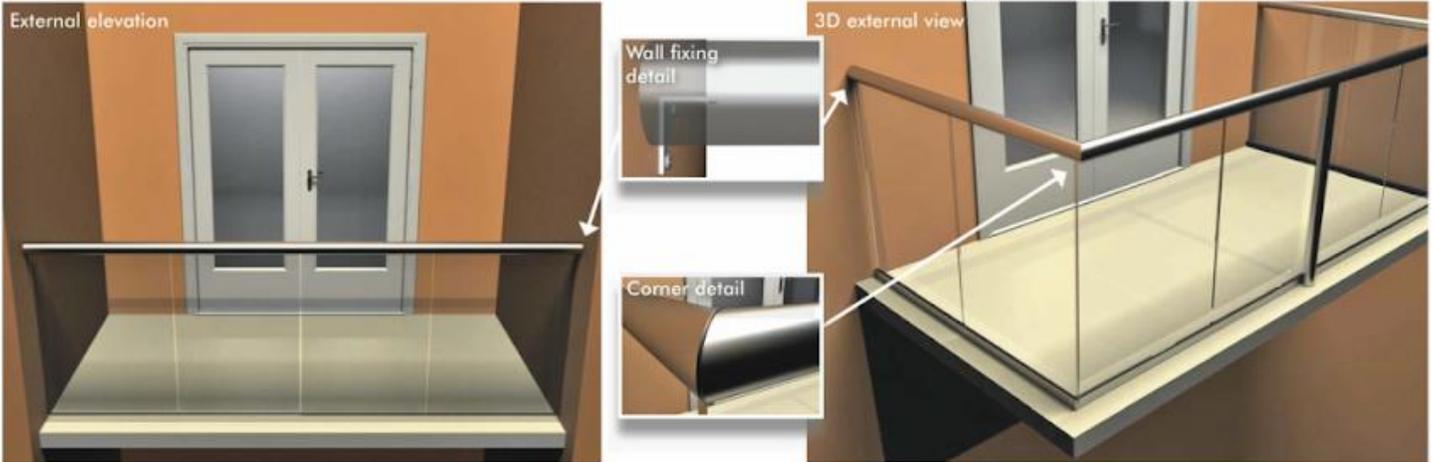
IMAGES AND CAPTIONS



Fig.1: The glass balustrade. © <https://www.balconette.co.uk/glass-balustrade/homepage1>



Orbit Balustrade System



Parameters
Max structural length without posts 3300mm
Max post spacing 1900mm
Glass options
10mm clear toughened
10mm green toughened
10mm grey toughened
10mm bronze toughened
10mm satin (opaque) toughened
Optional extras (for all glass types)
BalcoNano® self-cleaning coating
Laminated glass options available

Colour options

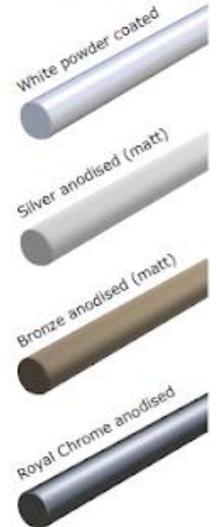


Fig.2: Orbit balustrade system.

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