

ATLANTIS  
Balustrade system

A photograph of a modern balcony with a glass railing system. The balcony floor is made of light-colored tiles. To the left, a black-framed glass door is partially visible. The railing consists of vertical glass panels held together by black metal spigots, with a silver-colored metal handrail on top. The view from the balcony shows a lush green golf course with a winding path, a small pond, and some sand traps. The sky is clear and blue.

ATLANTIS BALUSTRADE SYSTEM

Sleek, Modern,  
& Safe

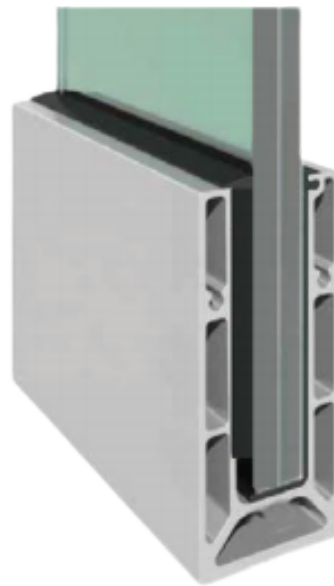
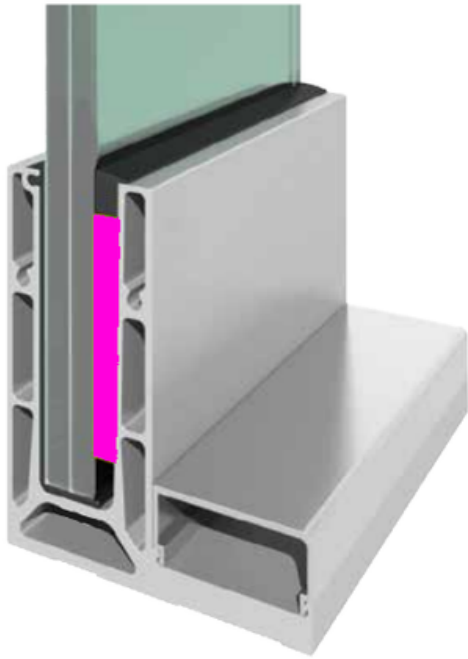
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SYSTEM ATLANTIS

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INTERNATIONAL



Utilizing glass for balustrades, railings, and barriers offers significant safety and aesthetic benefits in architectural design. Glass balustrades maximize natural light penetration, minimizing the need for artificial lighting and creating brighter, more open spaces. They are versatile, improving both interior and exterior visibility and are commonly employed around stairwells and elevators, along pedestrian walkways, in exterior window systems for fall prevention, and on balconies and terraces. The Fitechnic Atlantis series glass balustrade system features a minimalist, linear design, providing a contemporary aesthetic for a wide range of applications. The weather-resistant base shoe is engineered to securely hold glass panels of varying thicknesses, utilizing serrated ABS blocks to ensure a robust installation capable of withstanding distributed loads of up to 4KN/M. A selection of top handrails, along with the option for integrated concealed LED lighting, allows for customized design solutions.



## Features and benefits

1. Indoor & outdoor applications
2. Tested upto 4KN/M distributed load
3. 10 years warranty
4. Modular design for flexible installation
5. Ease of installation and glass replacement



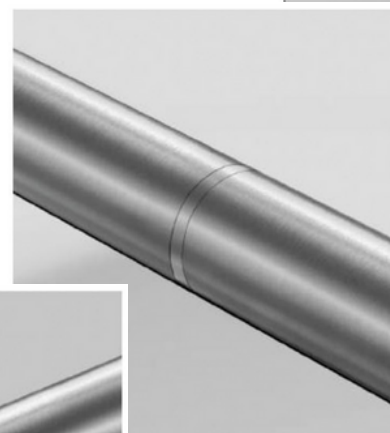
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**High Quality Stainless Steel Fittings**



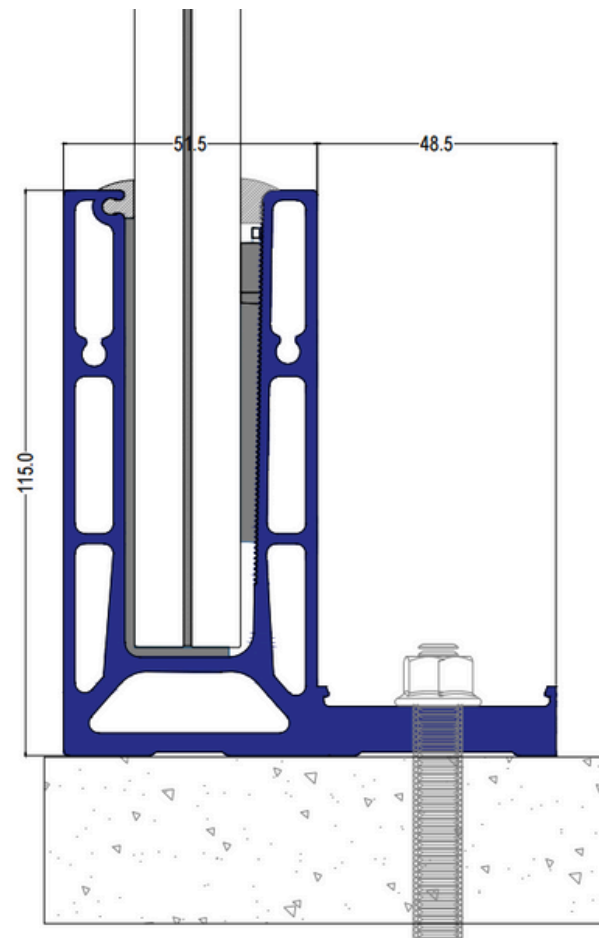
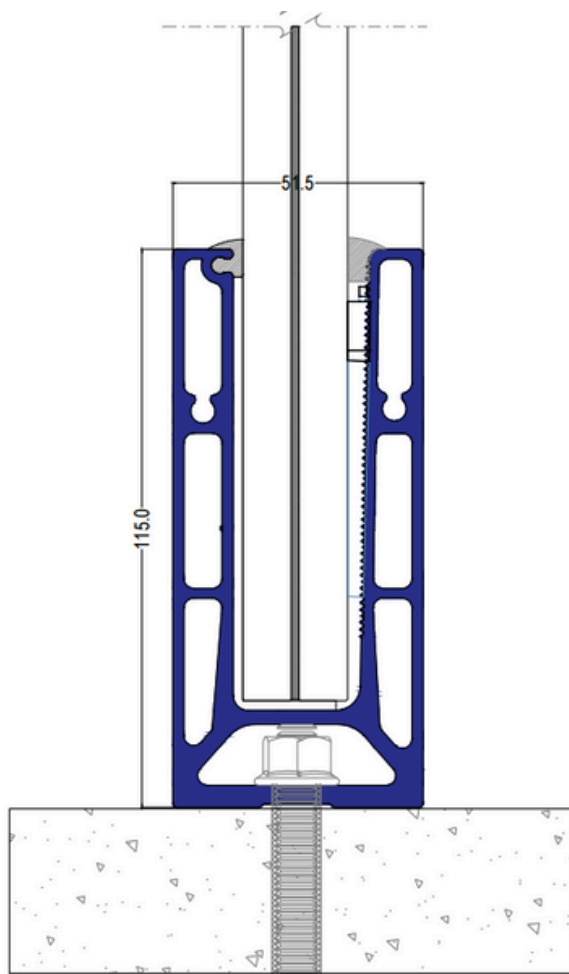


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## Independent Laboratory Load Test Results For Lusail World Cup Stadium, Qatar

| 5. LOAD TESTING RESULTS              |                       |       |                        |       |
|--------------------------------------|-----------------------|-------|------------------------|-------|
| Phase                                | Distributed Load Test |       | Concentrated Load Test |       |
| Height Where the Load Was Applied    | 110                   |       | 110                    |       |
| Imposed Load                         | 4.0 kN                |       | 0.89 kN                |       |
| Initial Value                        | 0                     |       | 0                      |       |
| Deflection value at First Increment  | 25 mm                 | 12.31 |                        | 2.5   |
| Deflection value at Second Increment | >25 mm                | 24.62 |                        | 5     |
| Deflection value at Third Increment  |                       | 36.93 |                        | 7.5   |
| Deflection value at Fourth Increment |                       | 49.15 |                        | 10    |
| Deflection value at Full Load        |                       | 60    | 25 mm                  | 12.31 |
| Final Result                         | Pass                  |       | Pass                   |       |
| Conclusion                           | The test passes       |       |                        |       |

| INSPECTED BY                              | REVIEWED BY                               | APPROVED BY                               |
|-------------------------------------------|-------------------------------------------|-------------------------------------------|
| Mohamed Elsis                             | Mohamed Elsis                             | Rodolph Abou Jaoude                       |
| Consulting Engineer                       | Consulting Engineer                       | Head of Consultancy Division              |
| Advanced Construction Technology Services | Advanced Construction Technology Services | Advanced Construction Technology Services |



*Barrier Load Testing at Lusail Stadium*



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## A L U M I N I U M   S Y S T E M S

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