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SIMPLIFIED TEST CERTIFICATE

Nr. 15/10221-760 (M1) S

“ VIEW CRYSTAL PLUS ” GLASS HANDRAIL for Slab Over

The tested handrail MEETS THE CLIENT'S SPECIFICATIONS CTE (DB SU-1 y DB SE-AE) for the following categories of use to 3,0kN/m:
(As stated in paragraph 3.2 and table 3.3 of the Client's DB-SE-AE DEL CTE)

- A: Residential areas
- B: Administrative areas
- C: Public access areas (except those belonging to A, B and D)
- D: Commercial areas
- E: Traffic areas and parking for light vehicles (<30 kN)
- F: Transitable decks accessible only privately
- G: Decks accessible only for preservation

The tested handrail MEETS THE SPECIFICATIONS contained in Eurocode 1, Actions on Structures (UNE-EN 1991-1-1:2003/AC:2011) listed in table 6.12, for categories of use for which a resistance of $\leq 3,0$ kN/m is required:

- A: Areas devoted to household and residential activities
- B: Office areas
- C: Zones where people could congregate (with the exception of areas defined under category A, B and D)
- D: Shopping Areas
- E: Zones susceptible to used for the accumulation of merchandise, including access zones.
Industrial zones.

The tested handrail MEETS THE SPECIFICATIONS contained in Standard UNE 85-238-91 for the following tests:

- Horizontal static test, outwards:
 - for parking areas in private locations measuring <3,25m in length
 - for public areas
- Horizontal static test, inwards
- Dynamic testing conducted with soft body
- Dynamic testing conducted with hard body

Manager for Construction Materials
LGAI Technological Center S.A.

Managing Technician
LGAI Technological Center S.A.

The complete results are included in the original test report that has been made available to the client with Report Nº 15/10221-760 (M1).

The results refer exclusively to the sample, product or materials delivered to the laboratory and tested under the conditions stated in in the Standards or procedures stated in this test report.

Applus+ guarantees that this task has been carried out in compliance with the requirements of our Quality and Sustainability System, and furthermore, that the contractual terms and legal regulations have been complied with.

In the framework of our improvement programme, we would appreciate any comments you may deem appropriate. These should be addressed to the manager who signs this document, or to the Quality Director of Applus+ at the following address:
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