CERTIFICATE

Client: DOLLE A/S

Product: DOLLE Graz

Designation: Complete product

Description: Structural verification of the centre-stringer staircase Graz. The maximum installation height

from floor to top tread is 2700 mm and it has maximum 12 treads. The product is approved with minimum 5 balustrades. The staircase can turn from 0 to 90 degrees. The screws for

fastening the top module to the wall are not included in this verification.

Material: Treads: 35 mm multiplex

Centre construction: Steel, S235 JRG2

Handrail: Ø25 mm Steel, S235 JRG2

Balustrades: Ø25 mm Steel, S235 JRG2

Particularities: The structure is checked with FEM for deformations and stress.

Eurocodes: EN 1991-1-1:2007 Eurocode 1: Actions on structures - Part 1-1

EN 1991-1-4:2007 Eurocode 1: Actions on structures - Part 1-4

EN 1993-1-8+AC:2007 Eurocode 3: Design of steel structures - Part 1-8

References: [1] DOLLE® Design basis for ladders and stairs, rev. 01

Conclusion: DOLLE Graz staircase is calculated according to Eurocodes [1] and the design is found to be

strong and stable.





March 2019 Jan Riis Bovbjerg Senior Management Consultant BIIR ApS

for Rm Bay