

CERTIFICATE

PRODUCT

CAMBRIDGE

DESCRIPTION

Product family Description: Structural verification of the spiral staircase family CAMBRIDGE. The CAMBRIDGE product family has a maximum outer diameter of 1340 mm, and the maximum installation height is 3150 mm. DOLLE CAMBRIDGE product family consists of maximum 13 treads and landing platform and minimum 7 balustrades carrying the staircase handrail and minimum 2 balustrades holding the repos handrail. The screws for fastening the platform to the wall are not included in this verification.

MATERIAL

» Treads 35 mm beech	» Centre construction Steel, S235 JRG2	» Spacer ABS
» Tread frame Steel, S235 JRG2	» Handrail PVC-Rigid	» Balustrades Steel, S235 JRG2

PATICULARITIES

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

CONCLUSION

CAMBRIDGE product family is calculated according to Eurocodes [1] and the design is found to be strong and stable. The product is approved.

DESIGNATION

Product family

REFERENCES

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

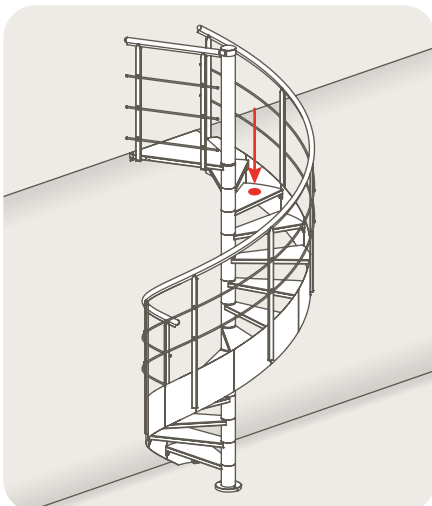
MANUFACTURER

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7741 Frøstrup
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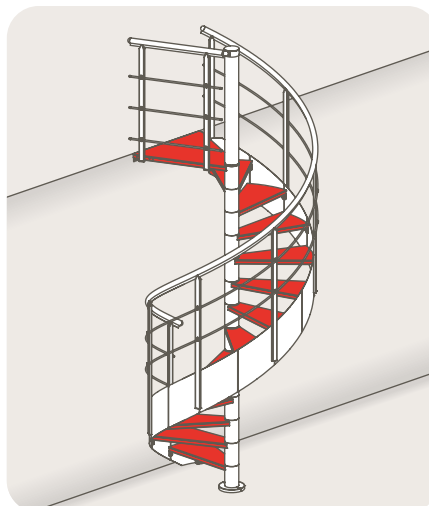

Francois Grimal
CEO DOLLE A/S

STAIR POINT LOAD



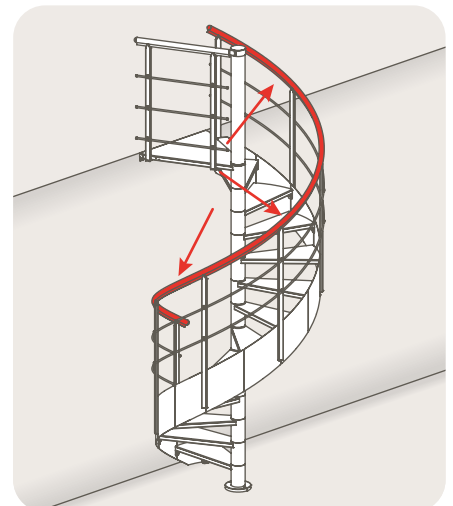
Max. 2 kN ~ 200 kg

STAIR SURFACE LOAD



Max. 3 kN/m² ~ 656 kg total load

LOAD ON HANDRAIL



Max. 0,5 kN/m ~ 50 kg/m