

CERTIFICATE

PRODUCT

DALLAS prefabricated stair kit (PSK)



DESCRIPTION

Structural verification of the staircase Dallas product family. The maximum installation height from floor to top tread is 3250 mm and it has a maximum of 13 treads. The tread width is 650 mm. The following configurations are included in this certificate: Straightway and quarter-turn in any position except the top tread. Wall brackets are demanded in all quarter-turn configurations and straightway configurations with 12 and 13 treads. The required strength of the walls, deck and floor are not included in this verification.

MATERIAL

Treads: 35 mm multiplex	Center stringer elements: Steel, S235 JR
Handrail: Ø42 mm PVC	Balusters: Steel, S235 JR

PARTICULARITIES

The structure is checked with FEM for deformations and stress.

EUROCODES

- » EAD 340006-00-0506
- » EN 1990:2002 Eurocode: Basis of Structural Design
- » EN 1991-1-1:2002 + AC:2009 Eurocode 1: Actions on structures - Part 1-1
- » EN 1991-1-6:2005 + AC:2008 Eurocode 1: Actions on structures - Part 1-6
- » EN 1993-1-5:2005 + AC:2009 Eurocode 3: Design of steel structures - Part 1-5
- » EN 1993-1-8:2005 + AC:2009 Eurocode 3: Design of steel structures - Part 1-8

CONCLUSION

DOLLE DALLAS staircase is calculated according to Eurocodes [1] and the design is found to be strong and stable [2].

DESIGNATION

Complete product

REFERENCES

- [1] DOLLE PSK verification procedure
- [2] DALLAS PSK FEA verification report

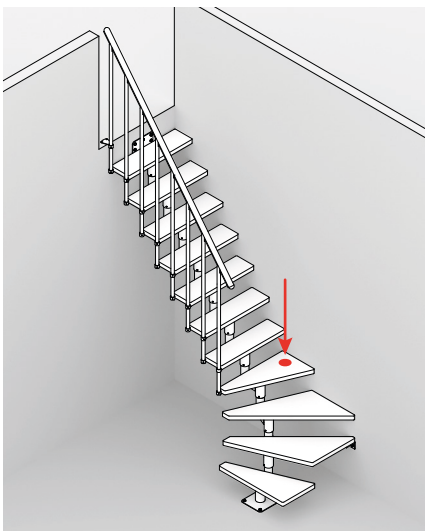
CLIENT



DOLLE A/S
 CVR: 69 39 50 15
 Vestergade 47, 7741 Frøstrup, Denmark

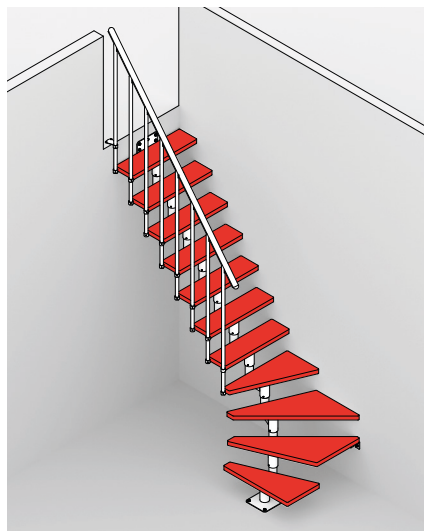



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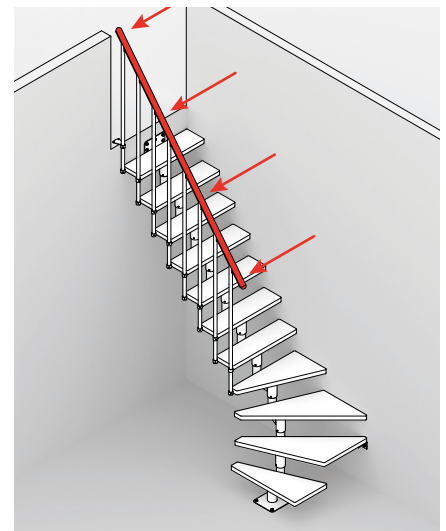
STAIR POINT LOAD

Max. 2 kN ~ 200 kg



STAIR SURFACE LOAD

Max. 2 kN/m² ~ 465 kg total load



LOAD ON HANDRAIL

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