

CERTIFICATE

PRODUCT

ATLANTA prefabricated stair kit (PSK)



DESCRIPTION

Structural verification of the staircase ATLANTA product family. The maximum installation height from floor to top tread is 3000 mm and it has a maximum of 11 treads. The tread width is 580 mm. The following configurations are included in this certificate:
Straight flight.

The required strength of the walls, deck and floor are not included in this verification.

MATERIAL

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

PARTICULARITIES

The structure is checked with FEM for deformations and stress.

EUROCODES

- » EN 1990:2002 Eurocode: Basis of Structural Design
- » EN 1991-1-1:2002 + AC:2009 Eurocode 1: Actions on structures - Part 1-1
- » 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 ATLANTA 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] ATLANTA PSK FEA verification report

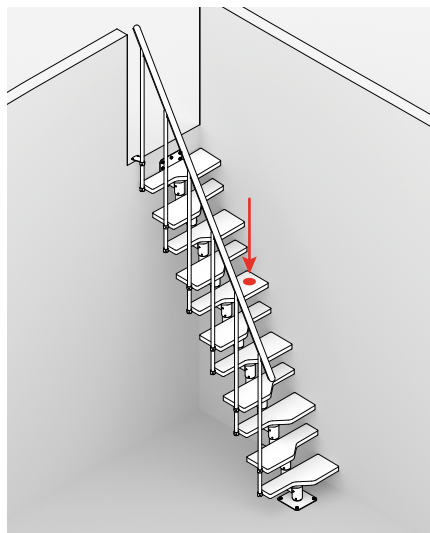
CLIENT



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

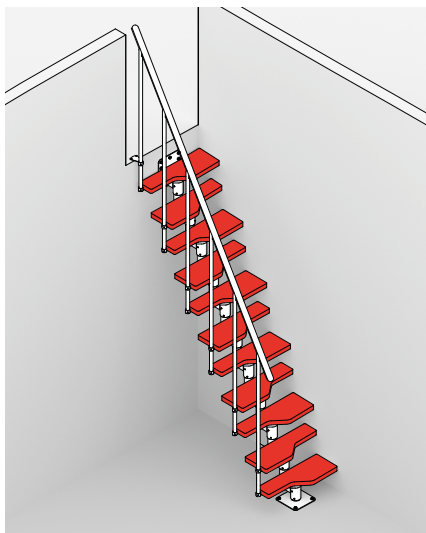



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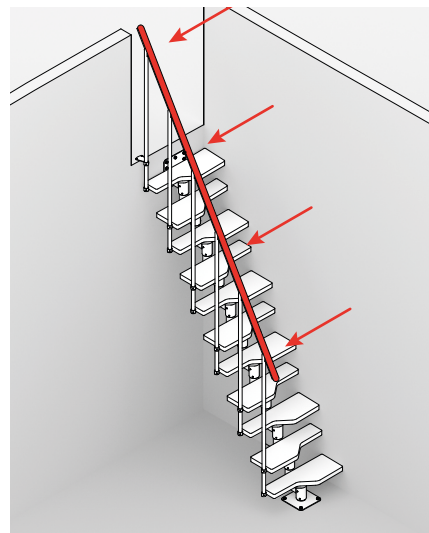
STAIR POINT LOAD

Max. 2 kN ~ 200 kg



STAIR SURFACE LOAD

Max. 2 kN/m² ~ 400 kg total load



LOAD ON HANDRAIL

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