

# 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

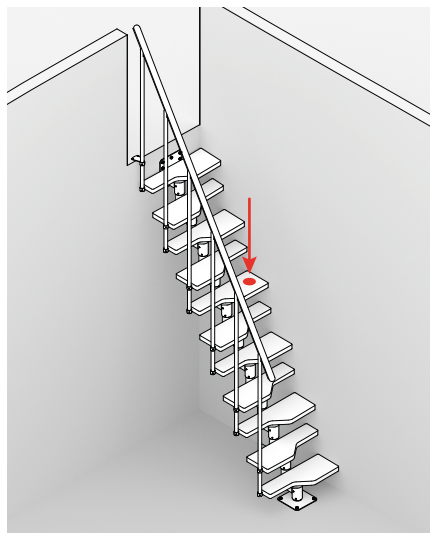
## CLIENT



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

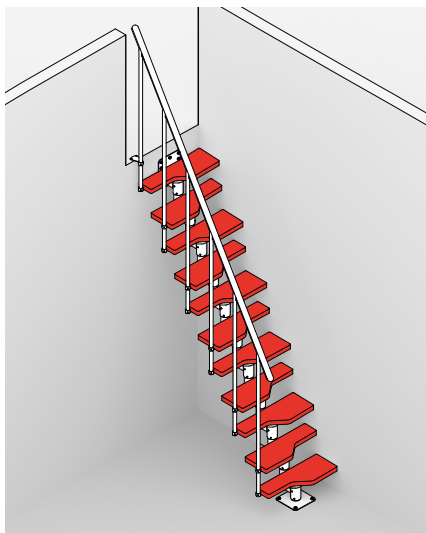



Thomas Sillesen  
CEO AKKERMAN ENGINEERING SOLUTIONS ApS



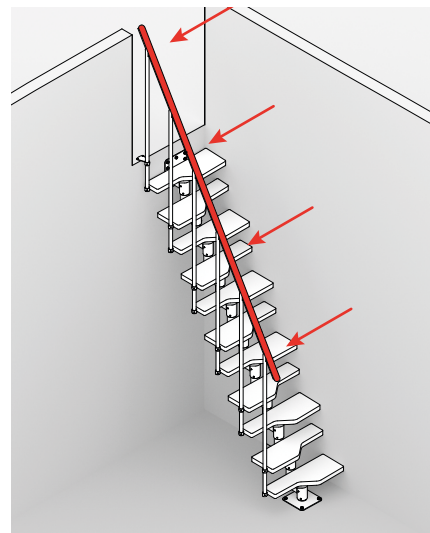
### STAIR POINT LOAD

Max. 2 kN ~ 200 kg



### STAIR SURFACE LOAD

Max. 2 kN/m<sup>2</sup> ~ 400 kg total load



### LOAD ON HANDRAIL

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