



CERTIFICATE

PRODUCT

SYDNEY prefabricated stair kit (PSK)





DESCRIPTION

Structural verification of the staircase SYDNEY product family. The maximum installation height from floor to top tread is 3150 mm and it has a maximum of 13 treads. The maximum tread width is 850 mm. The following configurations are included in this certificate: Straightway and quarter turn. Turn can only be positioned at the bottom of the staircase. SYDNEY is approved with Classic II, Classic III, Style6, Pure and Design banister. The required strength of the walls, deck and floor are not included in this verification.

MATERIAL

Treads: Center stringer elements: 38 mm oak or beech Aluminum 6005-T5

Handrail: Balusters:

Ø40 mm oak or beech Steel, S235 JR or Aluminum 6005-T5

PARTICULARITIES

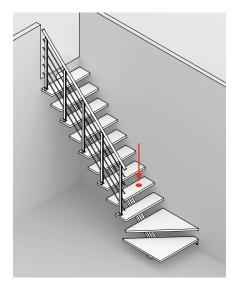
The structure is checked with FEM for deformations and stress.

EUROCODES

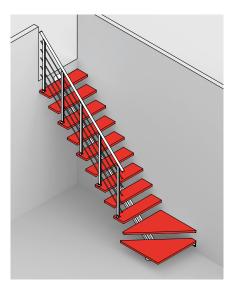
- » EAD 340006-00-0506
- » EN 1990:2002 Eurocode: Basis of Structural Design
- » EN 1991-1-1:2002 + AC:2009 Eurocode 1: Actions on structures Part 1-1
- » EN 1991-1-6:2005 + AC:2008 Eurocode 1: Actions on structures Part 1-6
- » EN 1993-1-5:2005 + AC:2009 Eurocode 3: Design of steel structures Part 1-5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

CONCLUSION

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



STAIR POINT LOAD Max. 2 kN ~ 200 kg



STAIR SURFACE LOAD

Max. 2 kN/m² ~ 620 kg total load

DESIGNATION

Complete product

REFERENCES

[1] DOLLE PSK verification procedure[2] SYDNEY PSK FEA verification report

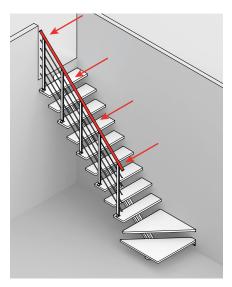
CLIENT



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Thomas Sillesen
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LOAD ON HANDRAIL Max. 0,5 kN/m ~ 50 kg/m