

# CERTIFICATE

<b>Client:</b>	DOLLE A/S
<b>Product:</b>	DOLLE Rome
<b>Designation:</b>	Complete product
<b>Description:</b>	Structural verification of the centre-stringer staircase Rome. The maximum installation height from the floor to the top tread is 3220 mm and it has maximum 14 treads. The product is approved with minimum 7 balustrades holding the handrail. The staircase can turn from 0 to 90 degrees. The screws for fastening the top module to the wall are not included in this verification.
<b>Material:</b>	Treads: 35 mm multiplex Centre construction: Steel, S235 JRG2 Handrail: Ø 40 mm beech Balustrades: Ø25 mm Steel, S235 JRG2 Filling: Ø3 steel wire, S235 JRG2
<b>Particularities:</b>	The structure is checked with FEM for deformations and stress.
<b>Eurocodes:</b>	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
<b>References:</b>	[1] DOLLE® Design basis for ladders and stairs, rev. 01
<b>Conclusion:</b>	DOLLE Rome staircase is calculated according to Eurocodes [1] and the design is found to be strong and stable.



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A handwritten signature in black ink, appearing to read 'Jan Riis Bovbjerg'.