Gemeente Texel .txl

Behoort bij besluit van
Burgemeester en Wethouders van Texel,
zaaknummer: 3782945
kenmerk document: bijlage 5/10
namens de burgemeester en wethouders van Texel,

de heer R.J. Nieuwenhuijzen
teamleider Vergunningen, Toezicht & Handhaving a.i.

Bijlage B

Constructief systeem

Royal HaskoningDHV
Enhancing Society Together

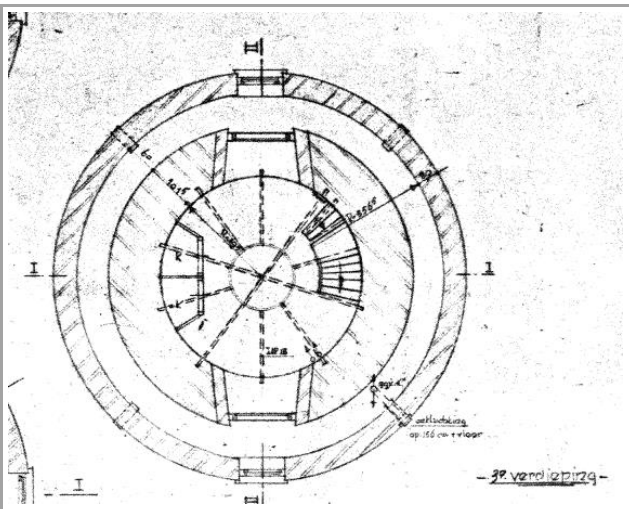
1 General

Property	Value
Total height	36 m
Diameter at bottom	8.54 m
Average diameter shaft	8.02
Total mass	1.50E+04 kN
Extreme wind pressure	2,01kN/m2 (Wind area I; cat 0)
Bouwwerkfactor	0,92

Subdivision shaft/superstructure	• Shaft
	  • Ground floor up to (and incl.) 5th floor
	• Superstructure:
	  • 6th floor: coast guard (bottom = +24.220 m)
	  • 7th floor: kuip lichthuis (bottom = +27.260 m)
	  • 8th floor: lichthuis (bottom = +29.920 m)
	  • 8th floor: radar frame (bottom = +29.920 m)

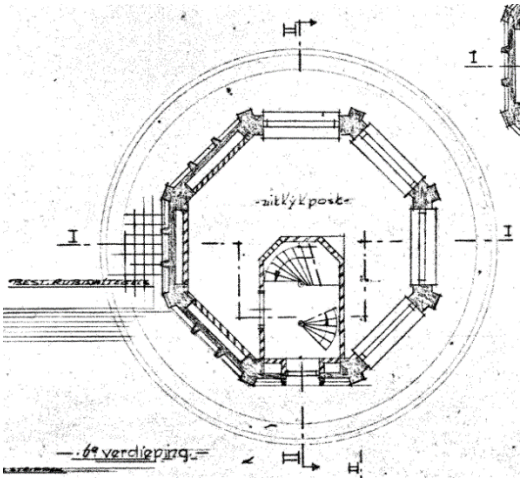
2 Shaft

Property	Value
Total height	24.22 m
Diameter at top	7.5 m (extension at balustrade height is not considered)
Wall material(s)	outer shell: masonry finish, concrete with crystal cement inner shell: masonry
Floor material(s)	Steel, cast iron

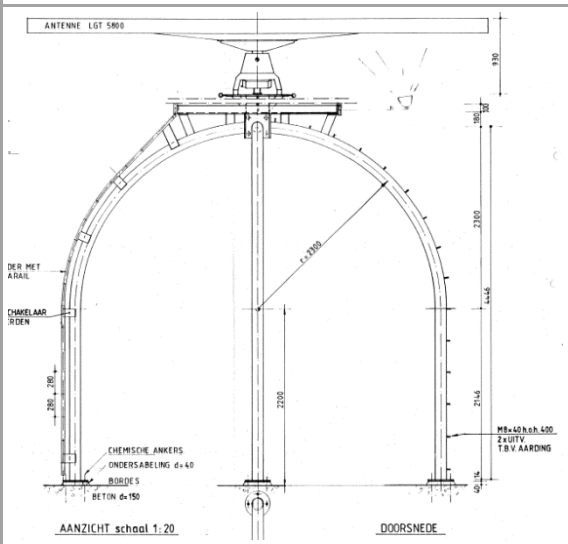
Figure of floor plan	
Average diameter shaft	8020mm
Average diameter inner shaft	6145mm
thickness outer walls shaft	390mm
average thickness inner walls shaft	1055mm
thickness top concrete floor shaft	500mm

3 Superstructure

Property	Value
Total height	9.78 m (5.7 coastguard + 4.08 lighthouse)
Wall material(s)	Concrete, (Dome, Columns= Copper)
Floor material(s)	Concrete

Figure of floor plan(s)	
equivalent thickness cast iron floors	15mm
Average diameter superstructure	5560mm
number of floors superstructure	2
average thickness walls superstructure	209mm
equivalent thickness concrete floor superstructure	207mm

4 Radar and support frame

Property	Value
Total height	5710 mm
Material support frame	Steel
Side view	
Frame column profile	Circular hollow section (139 x 12 mm)
Frame height	4446 + 40 + 14 = 4500 mm
Frame radius	2300 mm
Bottom level support frame	+29920 mm
Radar Frame column height	2200mm
Radar Installation weight	5500 N
Installation height	930 + 100 + 180 = 1210 mm