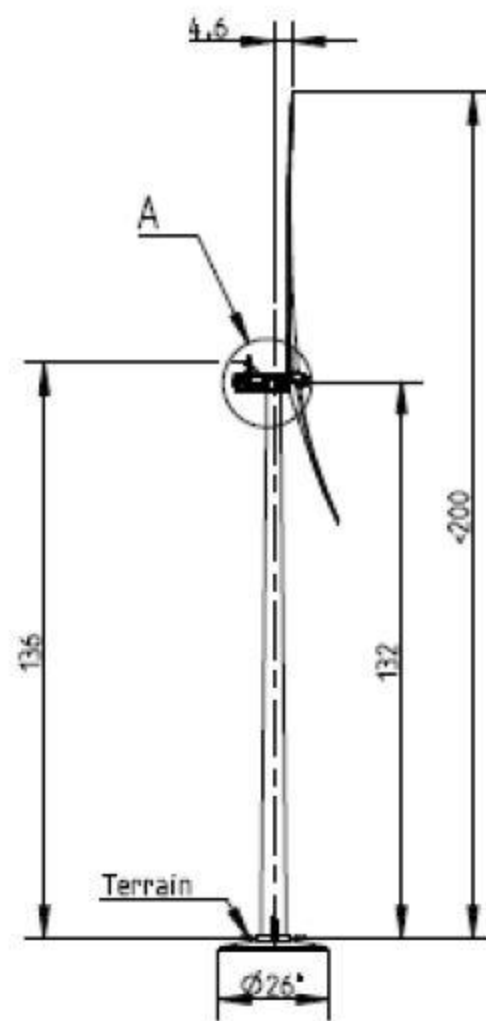
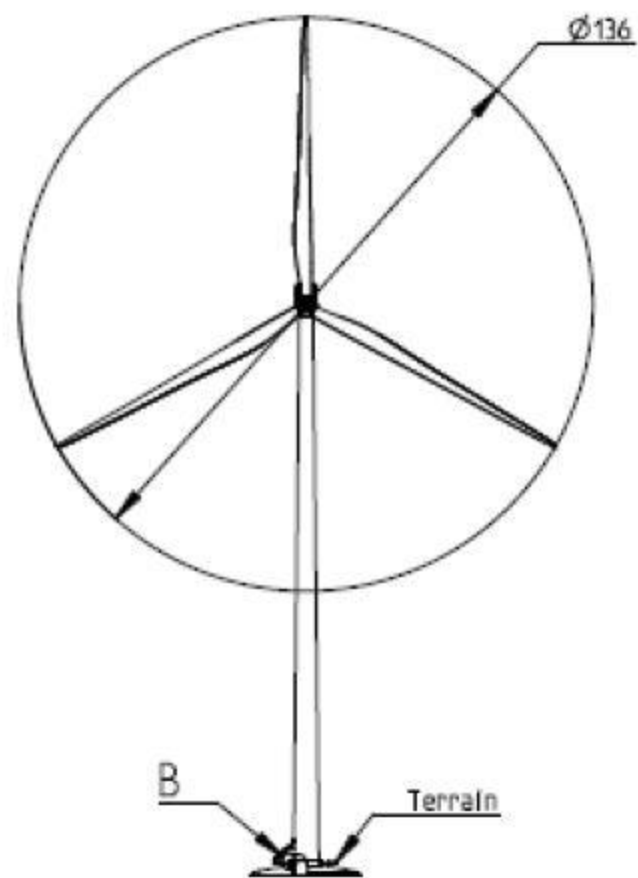
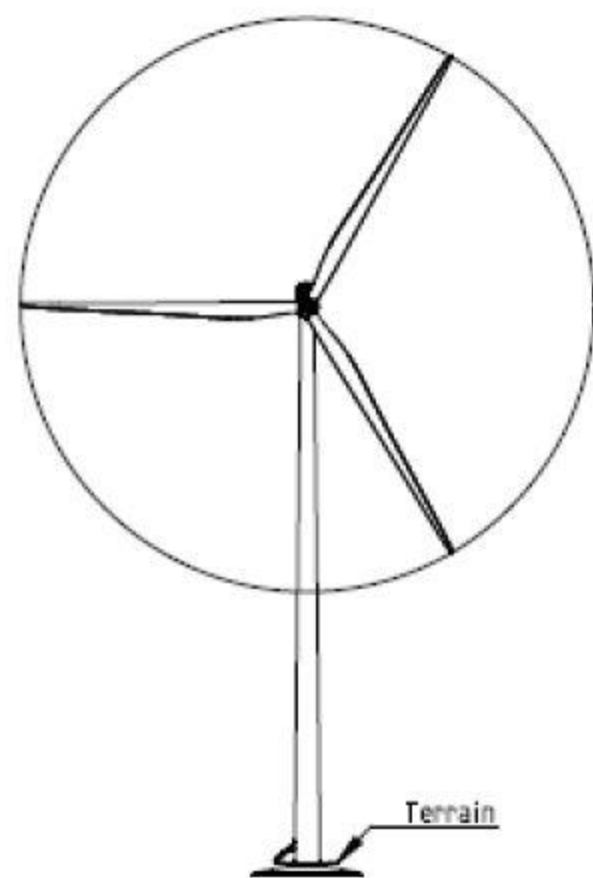
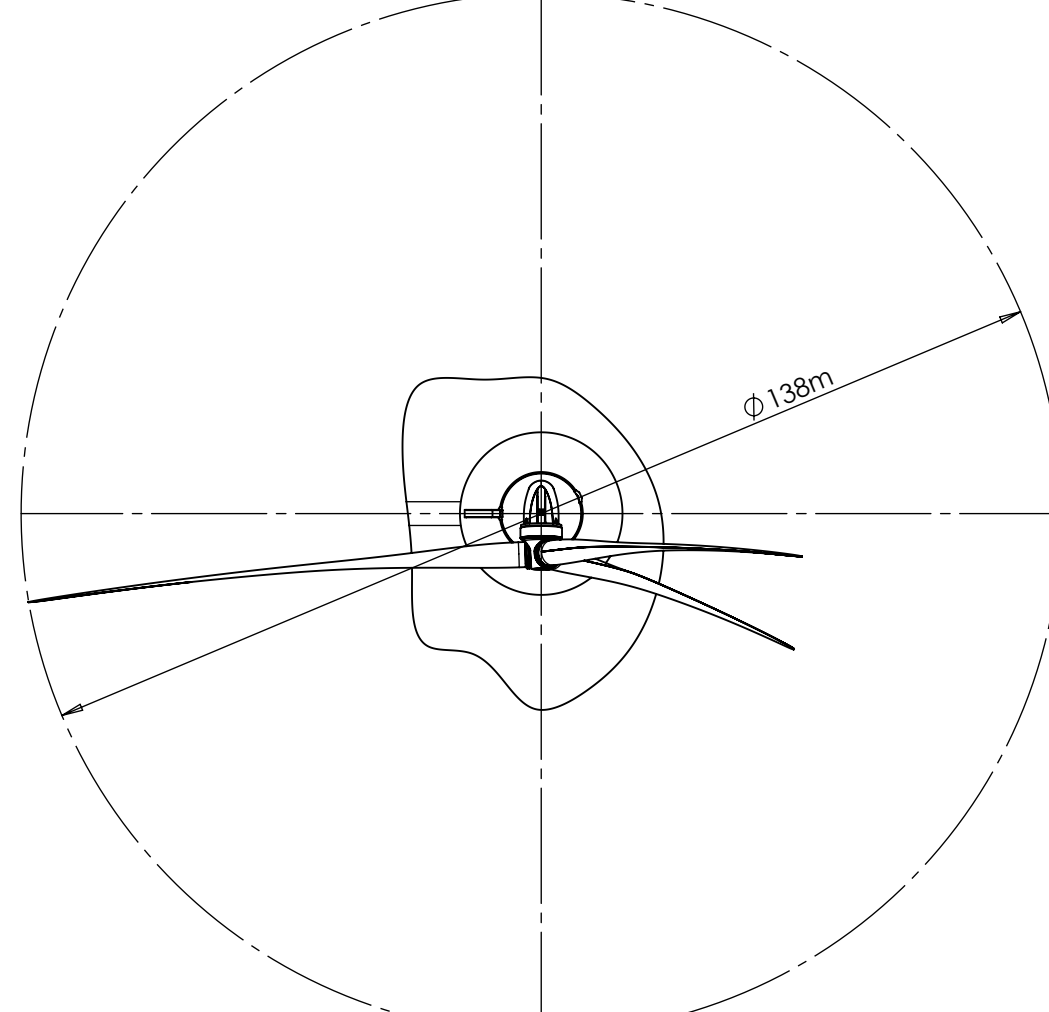
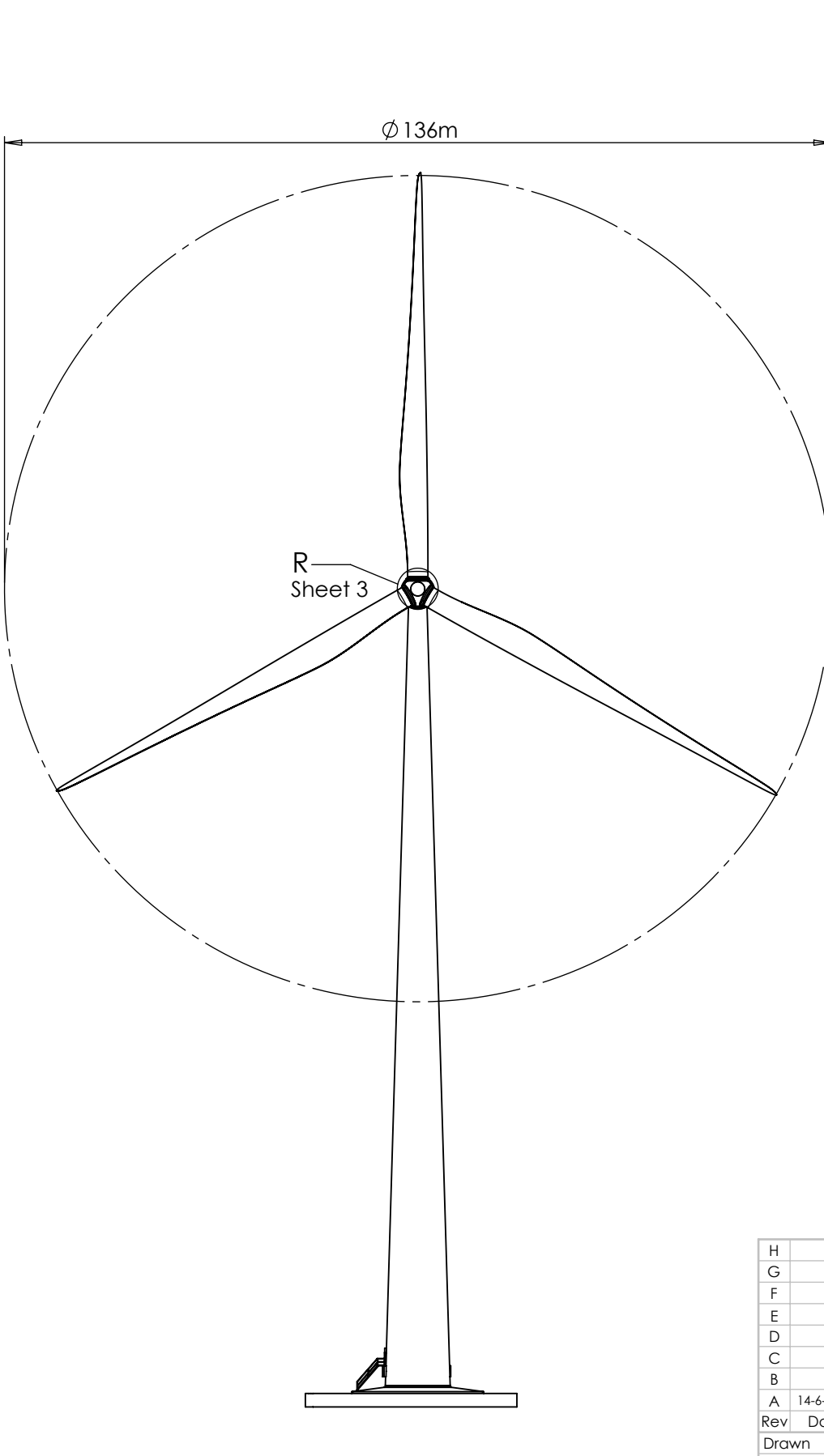
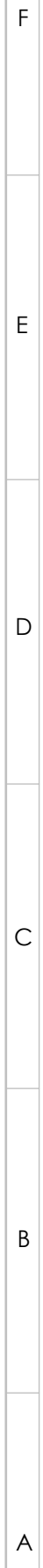


Blade in Inverted-Y Position



Blade in Horizontal Position

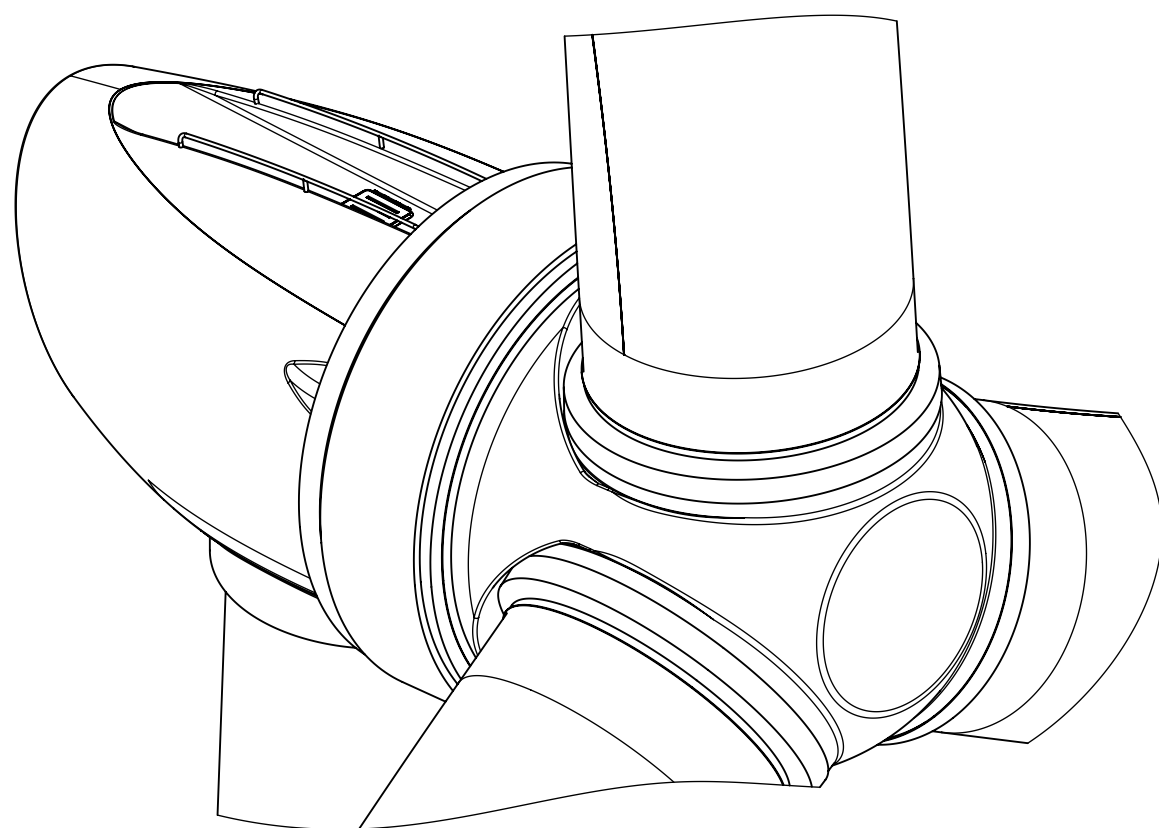




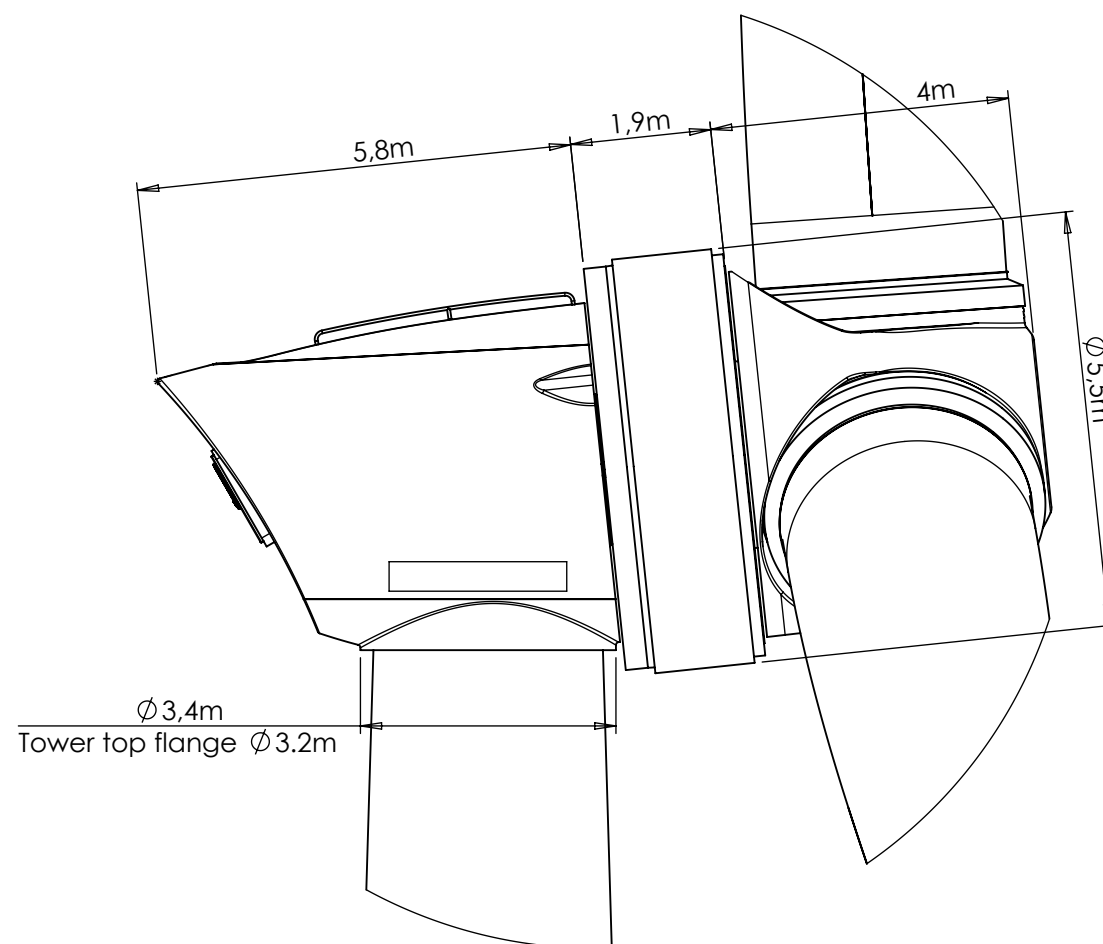
Top view with one blade horizontal
Circumscribed circle relative to tower center
Scale 1:1000

H						Surf.treatment: -				
G						Material: -				
F										
E										
D										
C										
B						NEN-ISO 1101	Module: Turbine			
A	14-6-2016	Preliminary issue			WdR		Description: L136 4.5MW - Hub height 132m MST			
Rev	Date	Description			Init.					
Drawn	14-6-2016	WdR		Surface roughness ISO 4287	Gen. Tol.		ISO 1302 	Drawing no.:	Rev.	Document class no.
Check	14-6-2016	-		ISO limits and fits NEN-ISO 286-2	NEN-ISO 2768-c			20-000147	A	M00-C7
Approve	Date	Initials	Sign	Welding symbolic ISO 2553	American proj.		Weight: -	kg		
						units	size	Scale: 1:1000	Sheets: 2 of 3	
						mm	A3	This document is confidential. It contains confidential, proprietary and privileged information and unauthorised disclosure, reproduction or use is prohibited. It is subject to change without notice.		

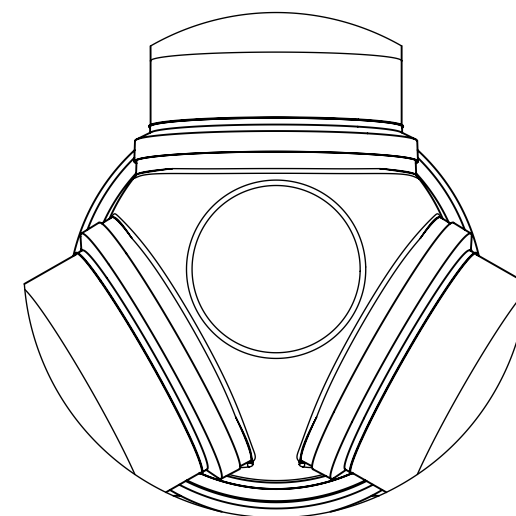
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Isometric view of turbine head

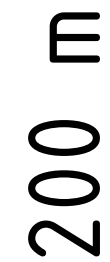


DETAIL Q



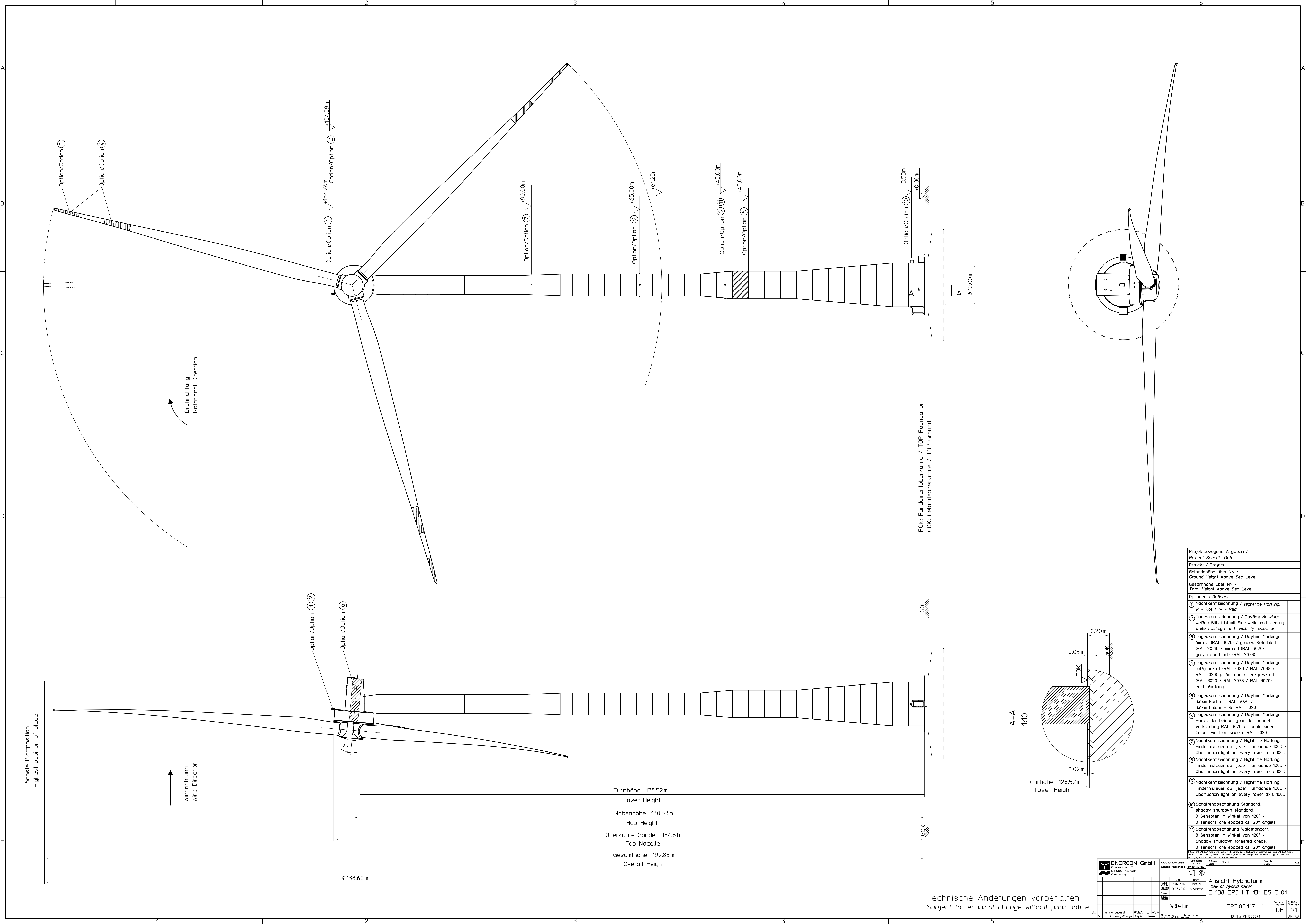
DETAIL R

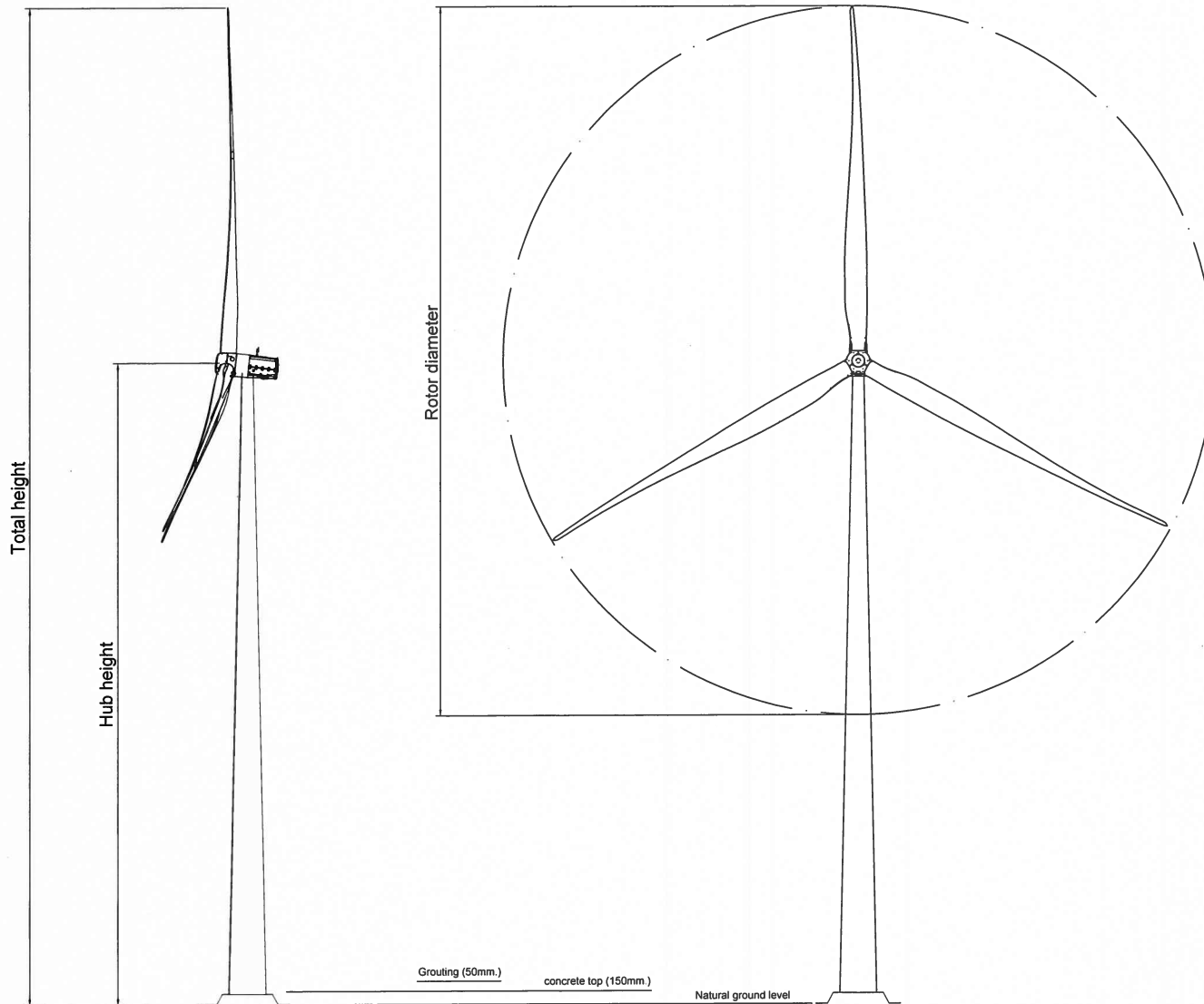
H						Surf.treatment:	-			
G						Material:	-			
F						NEN-ISO 1101 A A Gen. Tol. NEN-ISO 2768-c ISO 1302 American proj. ⊕ ⊖	Module:	Turbine		
E							Description:			
D							L136 4.5MW - Hub height 132m MST			
C										
B										
A	14-6-2016	Preliminary issue			WdR					
Rev	Date	Description			Init.					
Drawn	14-6-2016	WdR		Surface roughness ISO 4287						
Check	14-6-2016	-		ISO limits and fits NEN-ISO 286-2						
Approve	Date	Initials	Sign	Welding symbolic ISO 2553						
Lagerwey										
© Copyright Lagerwey Wind BV										



mit Rotorblatt RE 68.5
with rotor blade RE 68.5

[illegible]





SWT-DD-142	Meter
Total height	200
Hub height	129
Rotor dia	142

NOTE:
All dimensions are in mm.
The height of grouting is estimated and will depend on the requirements from the foundation designer.

Weight app. N/A	Proprietary Class: Restricted	Draw. format: A2	ISO	Draw. scale: 1:500	EC EC
Part: Elevation SWT-DD-142 R17_R18				Sheet no.: 1 / 1	
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Disclaimer: "shall be used to the building permit purposes only "

Estimated Foundation Design - D3-T129.0-600 SWT-DD-142

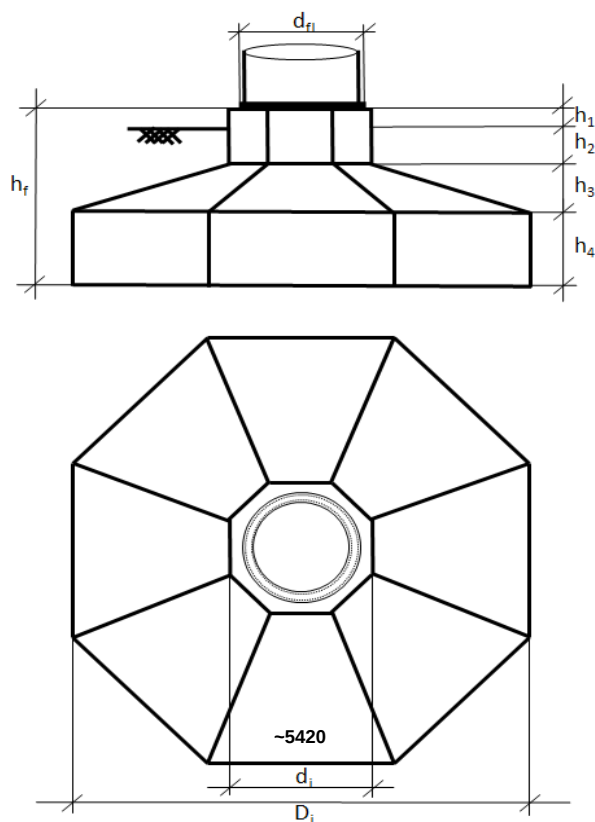
Volumes:

Concrete volume	999	m ³	C35/45 - C50/60
Reinforcement steel	114841	kg	B 500 S

The estimation is based on the following assumptions:

Gravity based flat foundation with buoyancy		
Specific weight of soil	18.0	kN/m ³
Specific weight of backfill	17.0	kN/m ³
Friction angle	32.0	°
Ratio of reinforcement steel / concrete	115.0	kg/m ³

Parameter that result in different foundation designs are soil conditions, country, designer practise or national codes and standards



Foundation geometry		
h1	0.150	m
h2	0.150	m
h3	1.960	m
h4	1.400	m
h _f	3.660	m
d _i	5.420	m
D _i	23.100	m

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