



**SD WIND ENERGY**

# PLANNING SUPPORT PACK

# SD6

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## IMPORTANT

This document is intended as an aid to complete planning applications.

It includes product information normally required for planning applications and permits.

For additional information please contact [info@sd-windenergy.com](mailto:info@sd-windenergy.com)

# PRODUCT SPECIFICATION

## ARCHITECTURE AND ROTOR

Type: Downwind, 360 degrees free yawing  
 Speed control: Self-regulating  
 Blades: 3 blades, passive coning and pitch control  
 Rotor diameter: 5.6m  
 Rated speed: 11m/s  
 Rotor thrust: 10kN

## GENERATOR

Type: Brushless permanent magnet, direct drive  
 Output: Grid connect (300v), battery charging (48V)

## TOWER

Type: Self-supporting monopole  
 Hub height: 9m, 15m & 20m (hydraulic towers)

## WEIGHT

Wind turbine: 600kg

## PERFORMANCE

Cut-in wind speed: 2.5m/s  
 Max wind speed (survival): Designed to Class 1 (70m/s), Tested to Class 2 (59.5m/s)  
 Rated Power: 5.2kW (at 11m/s measured at hub height)  
 Peak Power: 6.1kW  
 RAE: 8,949kWh as certified by TUV NEL  
 (at 5m/s measured at hub height)

## BUILD MATERIALS AND COLOURS

Frame: Galvanised steel, grey (not visible)  
 Towers: Galvanised steel, grey  
 Blades: Glass thermoplastic composite, black or light grey  
 Covers: Plastic.



Jet Black (RAL9005)



Light Grey (RAL7035)

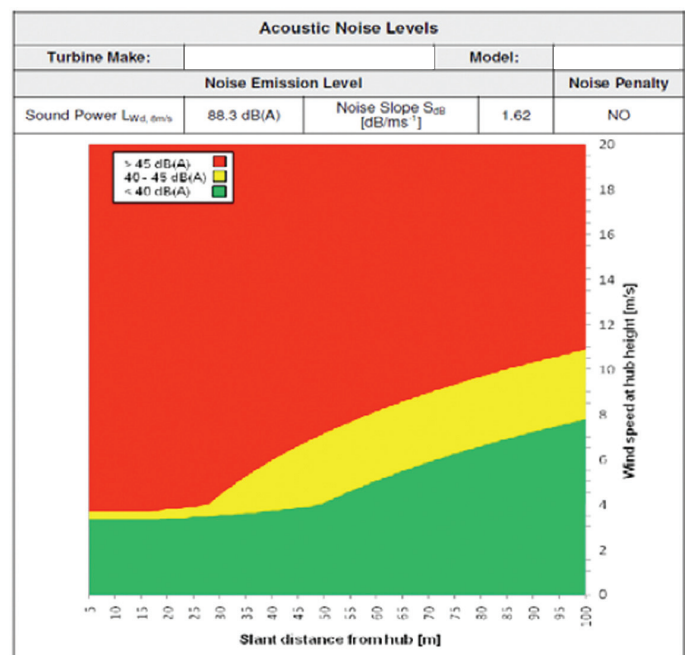
# ACOUSTIC DATA

The following noise map is a declaration of the sound power level, including noise slope tested according to BWEA standard (29th Feb 2008) which amends IEC 61400-11 for the purposes of acoustic testing of small wind turbines.

Frequency	Ls (dBA)
63	70.4
125	76.6
250	85.1
500	89.8
1000	91.2
2000	87.8
4000	83.3
8000	75.9

The turbine is not considered tonal

A full report is available upon request from  
[info@sd-windenergy.com](mailto:info@sd-windenergy.com)



## SITING

Siting and installation of your wind turbine should comply with “Installing small wind-powered electricity generating systems” (CE72) and “Micro-generation Installation Standard” (MIS 3003) which reflect the industry’s best practice.

Energy Saving Trust publication “Installing small wind-powered electricity generating systems” (CE72) can be downloaded from:

<http://www.energysavingtrust.org.uk/Global-Data/Publications/Installing-smallwind-powered-electricity-generating-systems-CE72>

The Micro-generation Certification Scheme publication “Micro-generation Installation Standard” (MIS3003) can be downloaded from:

<http://www.microgenerationcertification.org>

SD Wind Energy recommends that an Accredited Installer should be consulted on site location prior to a planning application being submitted

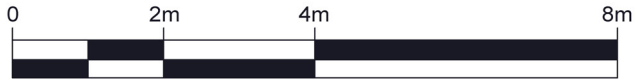
It is also recommended that potential wind turbine owners consult with their neighbours prior to applying for the necessary planning approvals

## TECHNICAL DRAWINGS

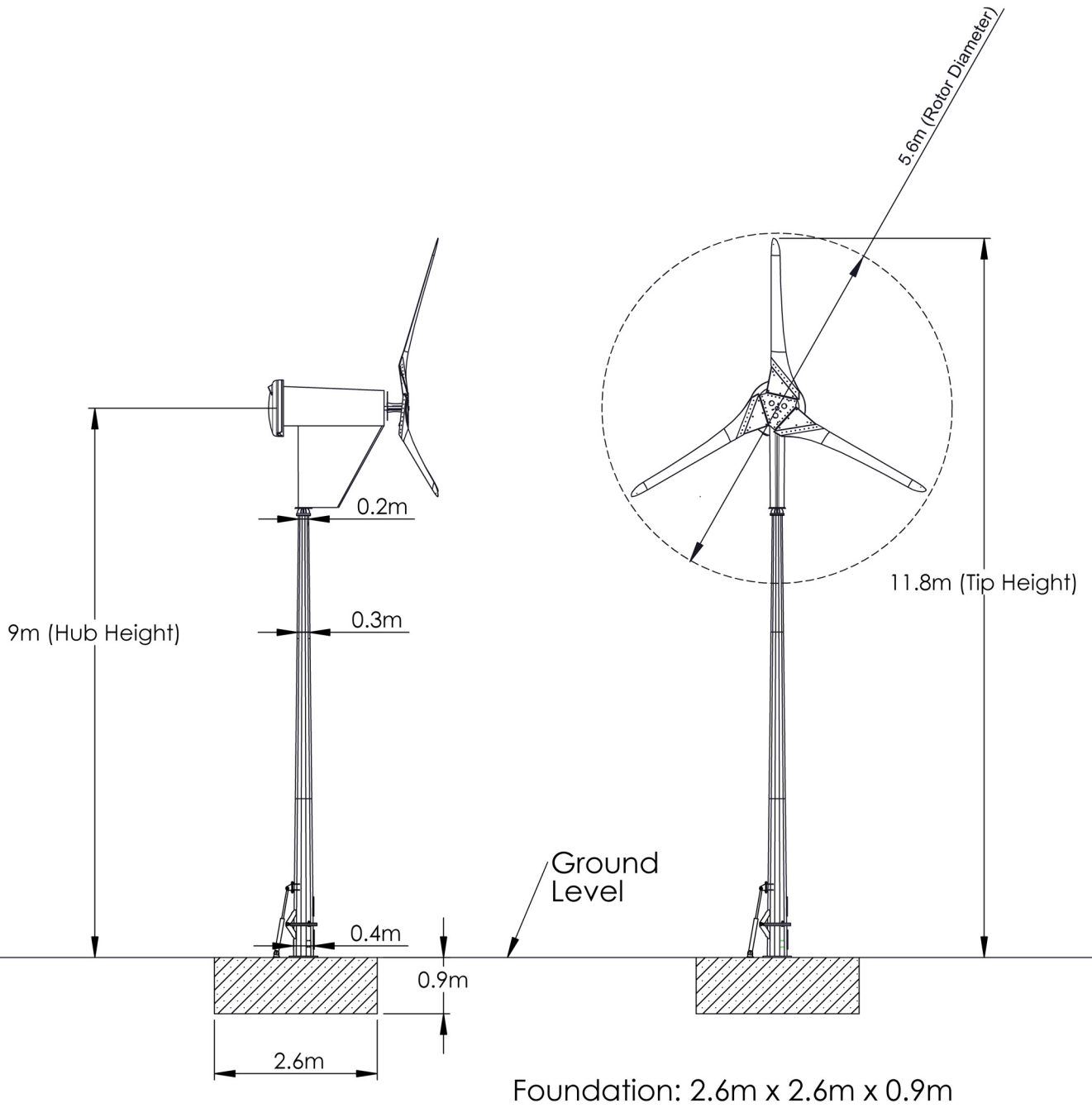
The following technical drawings are scaled elevations for the wind turbines listed below:

- SD6 on 9m Hydraulic Tower
- SD6 on 15m Hydraulic Tower
- SD6 on 20m Hydraulic Tower

NB – Please ensure when printing that Page Scaling is set to “None”



**NOTE:** Document for reference only. Check sheet size and drawing scale before printing. When printing PDF ensure print scale in printer properties is set to off or to none.



<b>TITLE:</b>	SD6 9m ARE Tower System		
<b>DWG No:</b>	SDI-06-TW-09-214		
<b>SCALE:</b>	1:100	<b>SHEET SIZE:</b>	A4
<b>DRAWN BY:</b>	CF 26-04-2013	<b>CHECKED BY:</b>	BA 26-04-2013
		<b>REV:</b>	C



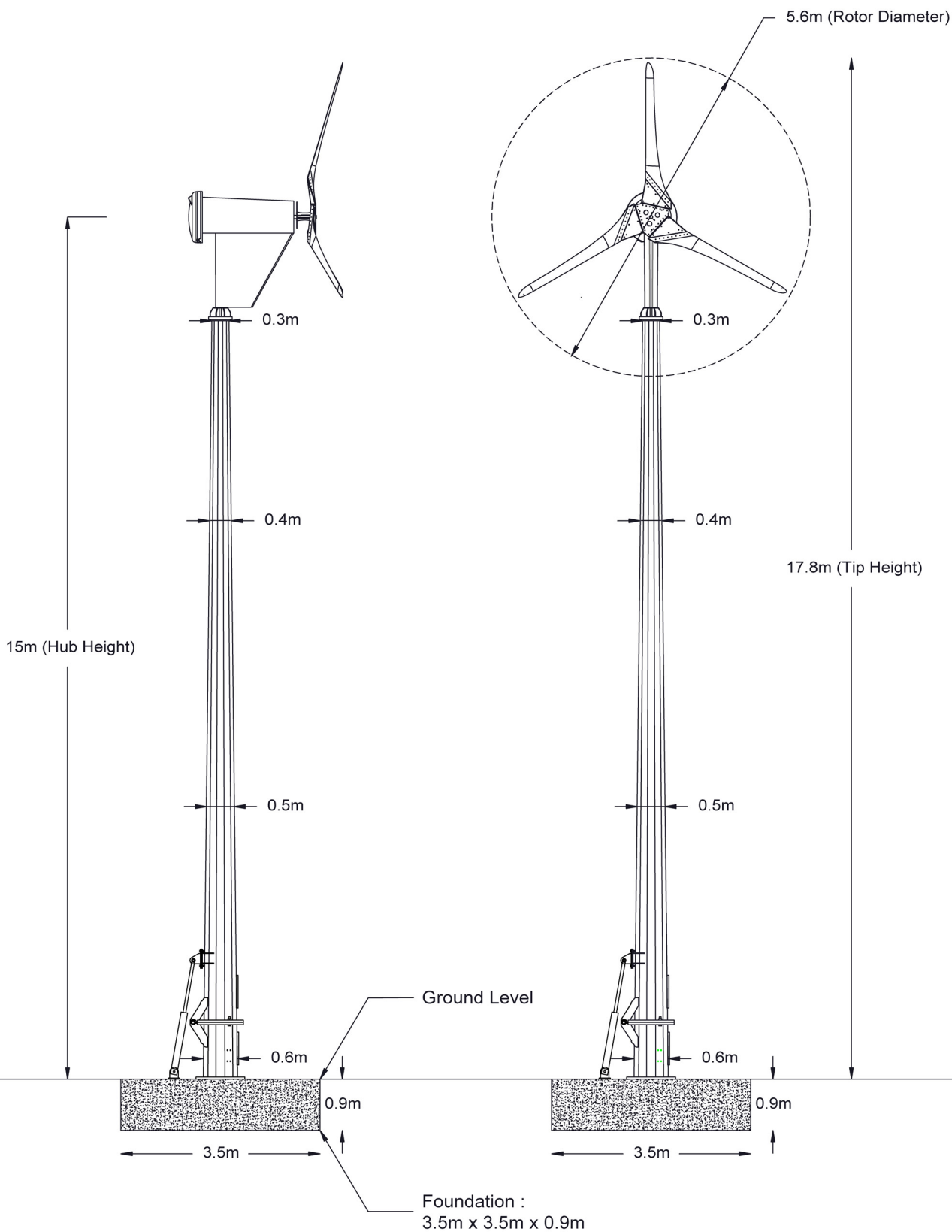
**COLOUR:**

Tower and Frame: Galvanised Grey

Covers: Jet Black (RAL9005)  
Light Grey (RAL7035)



**NOTE:** Document for reference only. Check sheet size and drawing scale before printing. When printing PDF ensure print scale in printer properties is set to off or to none.



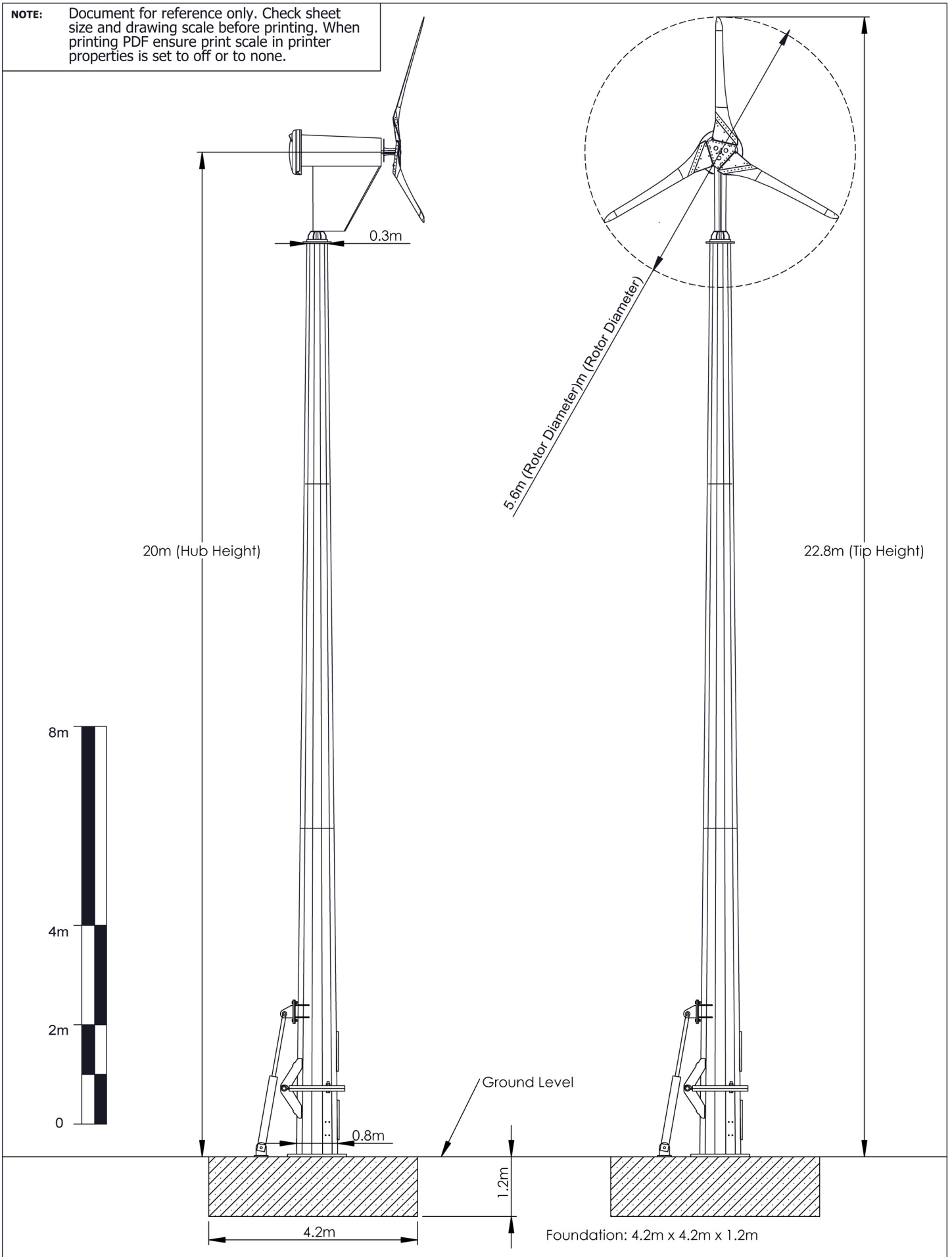
<b>TITLE:</b>	SD6 15m ARE Tower System		
<b>DWG No:</b>	SDI-06-TW-15-200		
<b>SCALE:</b>	1:100	<b>SHEET SIZE:</b>	A4
<b>DRAWN BY:</b>	CF 26-04-2013	<b>CHECKED BY:</b>	BA 26-04-2013
		<b>REV:</b>	C



**COLOUR:**

- Tower and Frame: Galvanised Grey
- Covers: Jet Black (RAL9005)
- Light Grey (RAL7035)

**NOTE:** Document for reference only. Check sheet size and drawing scale before printing. When printing PDF ensure print scale in printer properties is set to off or to none.



<b>TITLE:</b>	SD6 20m Tower System		
<b>DWG No:</b>	SDI-06-TW-20-001		
<b>SCALE:</b>	1:100	<b>SHEET SIZE:</b>	A4
<b>DRAWN BY:</b>	RL 15-03-2018	<b>CHECKED BY:</b>	PH 15-03-2018
		<b>REV:</b>	B



<b>COLOUR:</b>	Tower and Frame: Galvanised Grey
	Covers: Jet Black (RAL9005)
	Light Grey (RAL7035)

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