23/00262/FUL
21.08.2023

# KW6 WIND TURBINE

## PLANNING SUPPORT DOCUMENT

Scottish Borders Council
Town And Country
Planning (Scotland) Act
1997

**REFUSED**

subject to the
requirements of the
associated Decision
Notice

Kingspan Wind®

Kingspan Environmental

**ISSUE 01 JULY 2013**

Certification Number TUV 0008

# CONTENTS




## IMPORTANT

This document is intended as an aid
to complete planning applications.
It includes product information normally
required for UK planning applications.
For additional information please contact
wind.support@kingspan.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, 11m and 15m (hinged or hydraulic tower)
3.5m x 3.5m x 0.9m (max) Pad Foundation
Root Foundations are also available

WEIGHTS
Wind turbine: 600kg

PERFORMANCE
Cut-in wind speed: 3.5m/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, white or grey
Covers: Plastic.

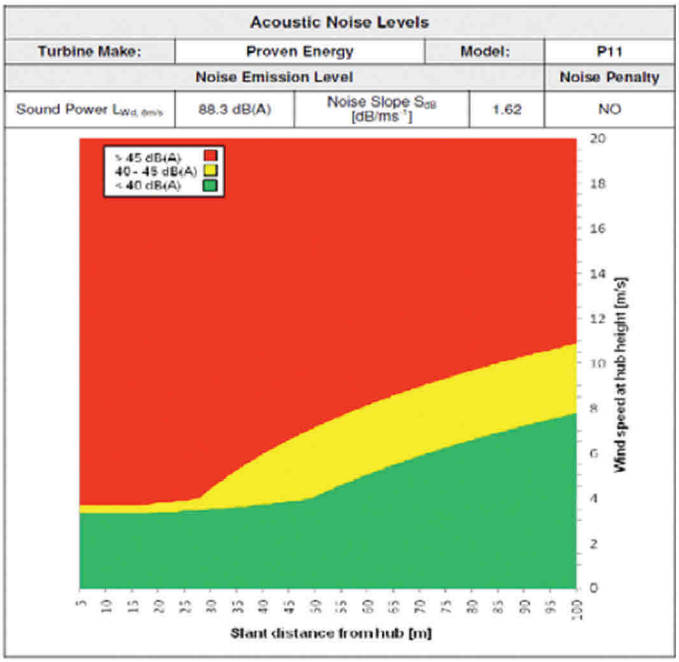

Black (RAL 9005)


White (RAL 9003)


Grey (RAL7000)

# 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.




A full report is available upon request from wind.support@kingspan.com

# SITTING

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

Kingspan Wind 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

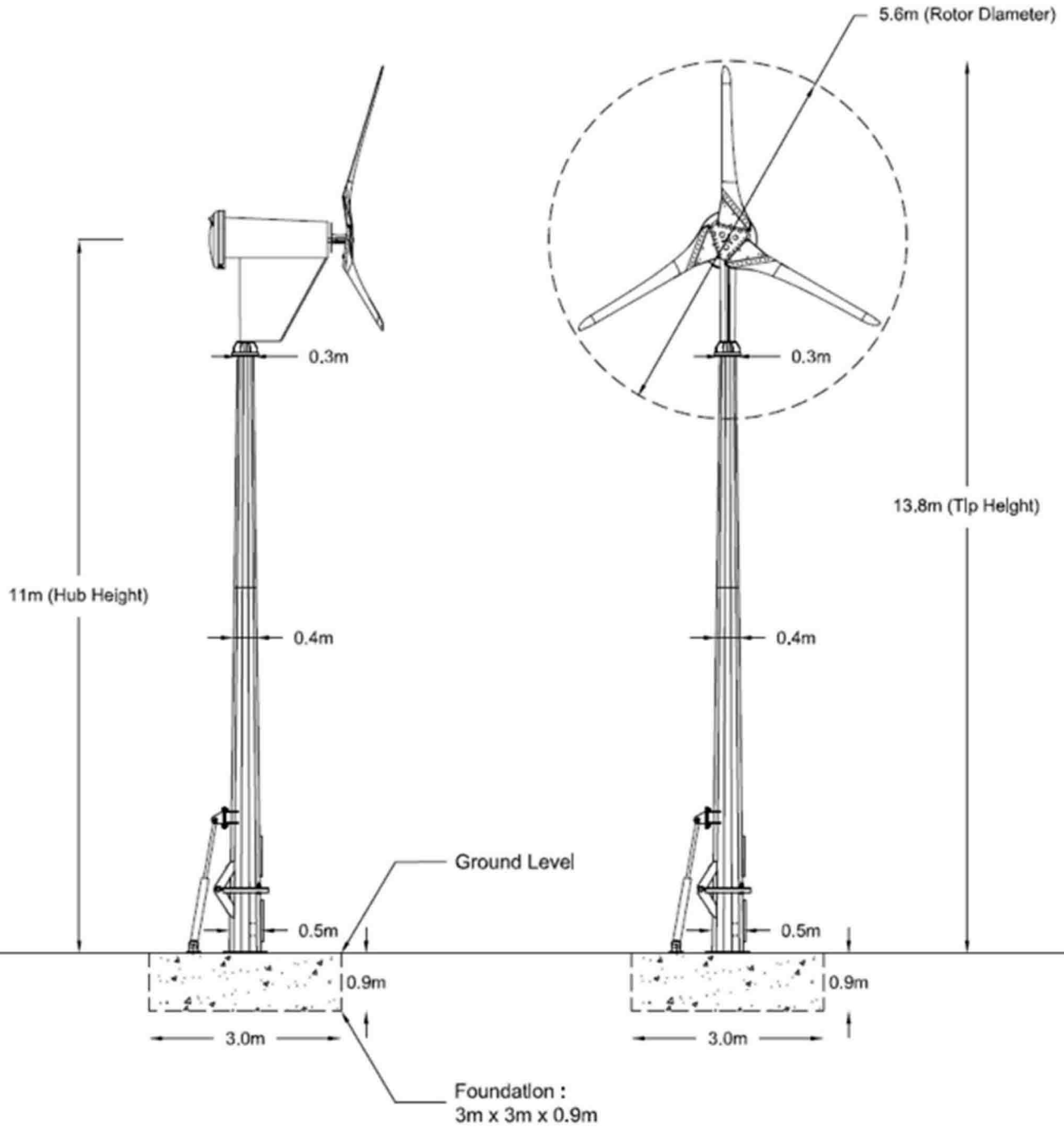
# TECHNICAL DRAWINGS

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

KW6 on 11M Hydraulic Tower
KW6 on 12M Hydraulic Tower
KW6 on 15M 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.




| | | | | |
|---|---|---|---|---|
| **TITLE:** | KW6 11m ARE Tower System | | | |
| **DWG No:** | KWI-06-TW-15-207 | | | |
| **SCALE:** | 1:100 | **SHEET SIZE:** | A4 | |
| **DRAWN BY:** | CF 26-04-2013 | **CHECKED BY:** | BA 26-04-2013 | **REV:** A |

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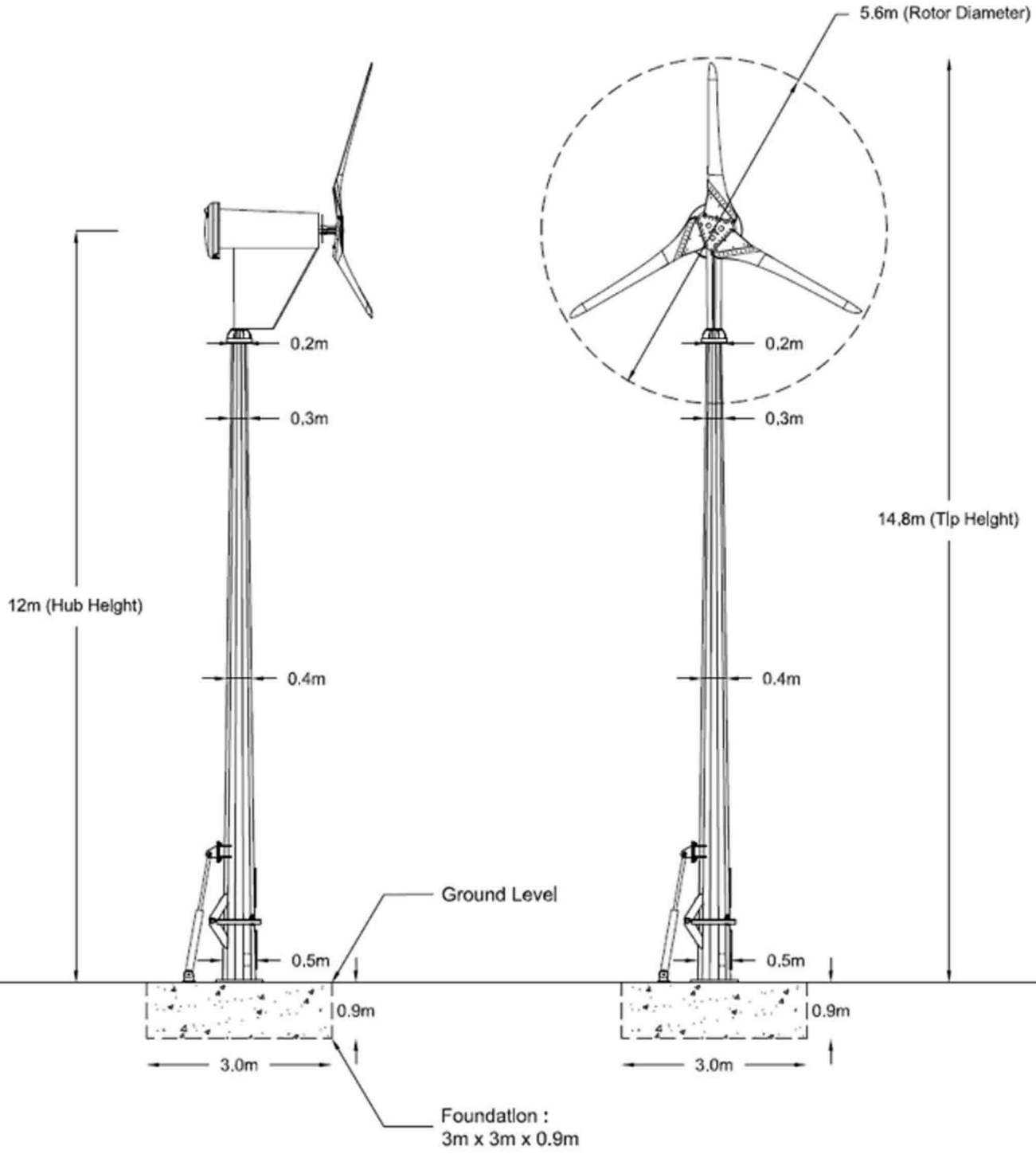
**COLOUR:**

See Build Materials & Colours section of Production Specification section of Planning Support Document Page 3.

**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.




| | | | | |
|---|---|---|---|---|
| **TITLE:** | KW6 12m ARE Tower System | | | |
| **DWG No:** | KWI-06-TW-12-220 | | | |
| **SCALE:** | 1:100 | **SHEET SIZE:** | A4 | |
| **DRAWN BY:** | CF 26-04-2013 | **CHECKED BY:** | BA 26-04-2013 | **REV:** A |

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**COLOUR:**

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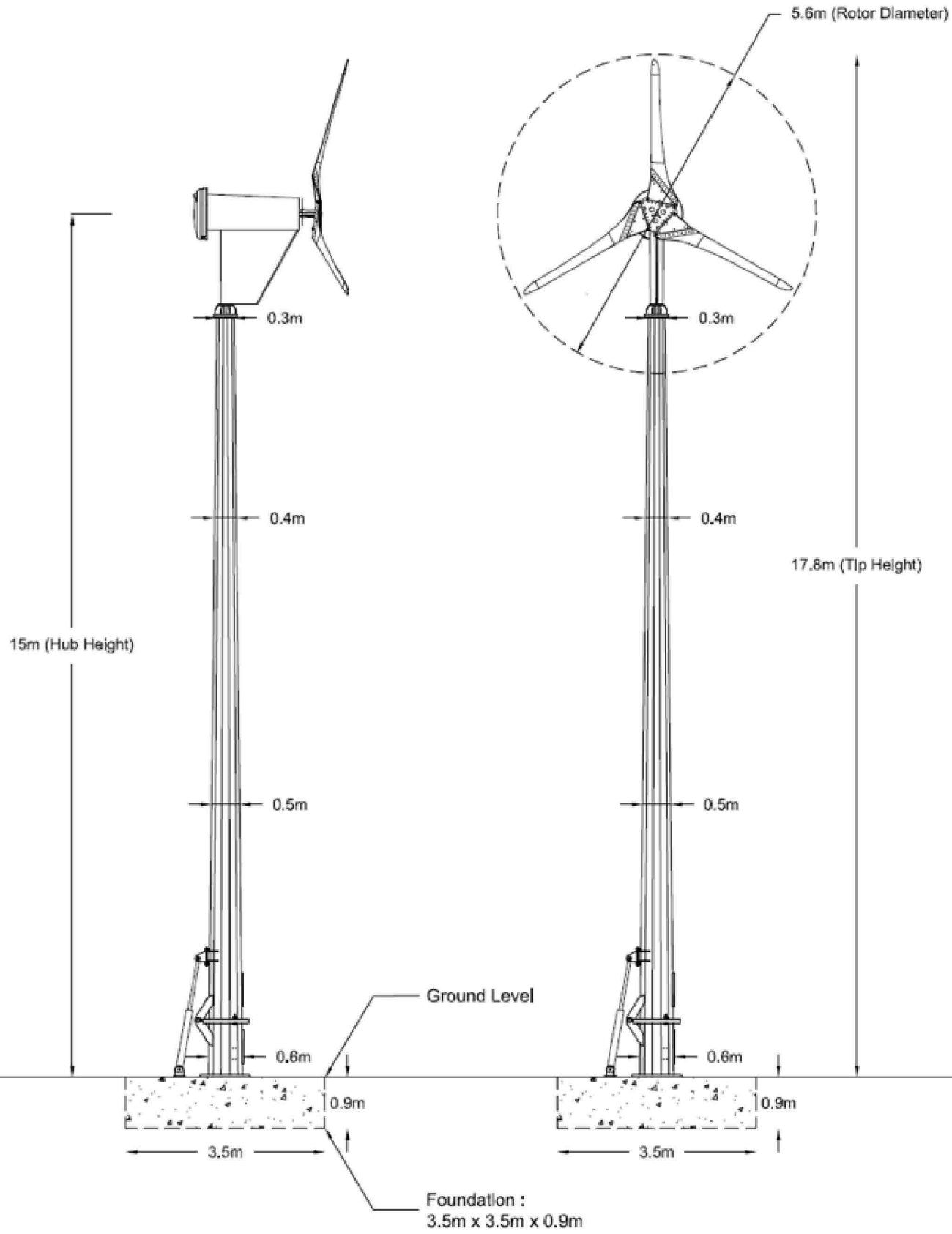


| | | | | |
|---|---|---|---|---|
| **TITLE:** | KW6 15m ARE Tower System | | | |
| **DWG No:** | KWI-06-TW-15-200 | | | |
| **SCALE:** | 1:100 | **SHEET SIZE:** | A4 | |
| **DRAWN BY:** | CF 26-04-2013 | **CHECKED BY:** | BA 26-04-2013 | **REV:** A |

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**COLOUR:**

See Build Materials & Colours section of Production Specification section of Planning Support Document Page 3.

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APPROVED PRODUCT

MCS

Certified by TUV NEL

Single Phase TUV008
Dual Phase TUV0012
Three Phase TUV 0013



Part Number: B10342A 