

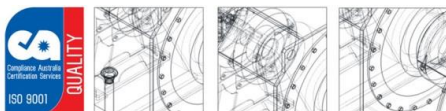
CONFIDENTIAL DATA

Royal Wolf Trading Construction Gantry Design Certification

Gantry Hoarding

rwt1505-crt-str001-001

Issue	Date	Description	Author	Reviewed	Approved
0	24/02/2016	Client Review			




1. Design Approval Certificate

Approval Number:	rwt1505-crt-str001-001
File No:	rwt1505-crt-str001-001-a.docx

Equipment Name:	Gantry Hoarding
Equipment No:	-
Reference Drawings:	Table 2-2 Reference Documentation
Reference Documents:	Table 2-2 Reference Documentation

We, being the authorised representatives of Royal Wolf Trading, hereby certify that the Gantry Hoarding, manufactured in accordance with the design drawings and standards, will remain structurally sound when used in accordance with the data nominated within Section 2 - Design Data.

Signature	Name	Position	Date
	Andrew Reid of HAALD Engineering Pty Ltd	Principal Mechanical Engineer BEng (Mech), RPEQ 7387	17/02/16
Design Authority:	Royal Wolf Trading		

2. Design Data

Table 2-1 – Design parameters

Item	Parameter	Value	Comments
1.	Design life	<5yrs	
2.	Wind Region	B	AS/NZS1170.2 – Fig 3.1B) Assumed design case
3.	Structure importance level	2	Normal structures and structures not falling into other levels
4.	Annual probability of exceedance for wind	1/100	AS-1170.0 Table F2. Construction equipment (e.g. props, scaffolding, braces and similar)
5.	Wind directional multiplier	0.95	AS/NZS1170.2 - C3.3.2(a)
6.	Wind Terrain Category	3	AS/NZS1170.2 – C4.2.1
7.	Terrain / height multiplier	0.83	AS/NZS1170.2 Table 4.1A
8.	Shielding multiplier	0.9	Assume multi-storey construction projects. If installed in open areas assume restricted to one building high until shieling is provided by the construction
9.	Topographic multiplier	1	
10.	Dynamic response factor C_{dyn}	1	
11.	Building Length	6.1-m	
12.	Building Width	2.438-m	
13.	Imposed Loads		
13.1.	Floor Loads	2.0-kPa	Office use
13.2.	Walkways	2.5-kPa	
13.3.	Roof	10-kPa	Ultimate load case with permanent deformation allowable
13.4.	Tare weight 20' modular gantry	4500-kg	Mass of gantry with concrete inserts
13.5.	Tare weight 20' platform (std)	1700-kg	
13.6.	Tare weight 20' platform (ballast)	3000-kg	
13.7.	Tare weight 20' building	2400-kg	For stability
13.8.		3400-kg	For strength

Table 2-2 Reference Documentation

Item	Document Number	Description	Rev	Origin
1)	rwt1505-dcr-gnr000-001	Design Criteria	1	Haald Engineering
2)	rwt1505-rpr-str001-001	Design Review & Certification Report	0	Haald Engineering
3)	rwt1505-drw-str001-005	General Arrangement	1	Haald Engineering
4)	rwt1505-clc-mch020-001	Loading calculations – 20ft Gantry	a	Haald Engineering
5)	rwt1505-clc-mch-002-001	FE Analysis – 20ft Gantry	e	Haald Engineering