







A.D architecture

Application for Certification | Audit Report

RECOMMENDATION : GRANT

Issue Number: 1

12 September 2012

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Applicant: AD Architecture Limited

Application for Certification:	Green Tick [®] Sustainable
	Green Tick [®] Carbon Neutral

Audit Report

<u>FINAL</u>

Issue No. 1

12 September 2012



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EXECUTIVE SUMMARY

AD Architecture Limited (ADA) of The Pier, 6-8 Seaview Road, Paraparaumu, New Zealand, has applied for Green Tick[®] SUSTAINABLE and CARBON NEUTRAL Certification of its professional service operations and architectural practice. ADA operates throughout New Zealand, with its head office located at Paraparaumu Beach, on the Kapiti Coast, north of Wellington, New Zealand. Since 2008, the company has been involved in providing sustainability-based architectural design and supervision services to residential, commercial and industrial clients. It now wishes to formalise its green credentials by obtaining robust independent sustainability and carbon neutral certification of its operations in New Zealand.

Green Tick[®] Certification Limited (GTC) is a Government approved, independent sustainability certification agency that operates worldwide. GTC's sustainability certification programme is based on a life cycle assessment of an applicant's operations in accordance with the relevant ISO 14000 series of standards for environmental management, and the requirement of the New Zealand Commerce Commission that green claims be supported by life-cycle based evidence. The Green Tick[®] SUSTAINABLE standard has eight health and safety, and 12 environmental performance standards that applicants must meet in order to be awarded Green Tick[®] SUSTAINABLE certification. A further two standards covering attainment of carbon neutral status are mandated for CARBON NEUTRAL certification.

ADA has applied for SUSTAINABLE and CARBON NEUTRAL certification, providing documentation of its health, safety and environmental policies and programmes (HSE), design standards, operational procedures and records, sustainable procurement actions, and examples of client projects and feedback records, in support of its application. In particular, ADA has provided detailed records of two residential design projects completed under the Homestar and (the now discontinued) Green Homes sustainability schemes.

A registered Green Tick[®] Lead Auditor conducted a site visit at the Paraparaumu office on 31 August 2012. Documentation was reviewed, a walk-through of the site occurred, staff were interviewed on the day-to-day policies and operations of the company. Over the next few days a legal Compliance Check of the operations at the site was undertaken by inspection of ADA's relevant HSE records and online records of HSE authorities.

The audit findings were that ADA was sensitive to managing all of its operations in an efficient manner throughout the whole life cycle of the business. The two project examples examined provided extensive and detailed evidence of meaningful and material architectural design and recommendations that provide ADA's clients with genuinely sustainable building solutions. The evidence provided showed ready compliance with all 20 Green Tick[®] SUSTAINABLE standards. An observation was made by the auditor (not part of the audit recommendation), that the company might benchmark the carbon and total footprint of one of these projects to complete a first-ever life cycle based footprint of a residential home in New Zealand. The Green Tick[®] Certification Board awarded ADA Green Tick[®] SUSTAINABLE and CARBON NEUTRAL certification for a period of three years from 19 September 2012 – 19 September 2015.





1 INTRODUCTION

AD Architecture Limited (ADA) has applied for Green Tick[®] SUSTAINABLE and Green Tick[®] CARBON NEUTRAL certification of its architectural practice and design process in Paraparaumu on the Kapiti Coast, north of Wellington, in New Zealand. ADA is an architectural company that is dedicated to providing sustainable building design solutions to the New Zealand (NZ) market <u>www.adarchitecture.co.nz</u>. ADA has sustainability as one of its key business pillars.

Since 2008, ADA has been dedicated to providing sustainable building solutions with quality eco-design as their central principle. The company now wishes to formalise its green credentials by obtaining independent sustainability and carbon neutral certification of its operations in NZ.



Figure 1: ADA design examples (Photographs: Left photo Erin King, Right photo Paddy Riley)

2 GREEN TICK[®] CERTIFICATION PROCESS

Green Tick[®] Certification Limited (GTC) is a Government approved, independent sustainability certification agency that operates worldwide. GTC's sustainability certification programme is based on a life cycle assessment of an applicant's operations in accordance with the relevant ISO 14000 series of standards for environmental management, and the requirement of the NZ Commerce Commission that green claims be supported by life-cycle based evidence.

GTC's definition of sustainability is that activities under the Applicant's direct control occur without causing permanent damage to the environment. The Green Tick[®] SUSTAINABLE standard has eight health and safety and 12 environmental performance standards, and Green Tick[®] CARBON NEUTRAL has two further carbon standards (see Appendix 1). A minimum of 12 months' evidence of compliance with these standards must be provided by an Applicant in order to be awarded Green Tick[®] SUSTAINABLE and CARBON NEUTRAL certification. There are four types of certification:



- Corporate where the entire corporation is certified for its genuine commitment to sustainability, and the strong sustainability culture present in the organisation;
- Site where a site's operations are certified as sustainable;
- Product where a product is certified as sustainable;
- Service where a service is certified as sustainable.

A formal on-site audit of the applicant's product or service is undertaken by a registered Green Tick[®] auditor. Documentation is reviewed; communications regarding the sustainability culture and performance of the applicant with their staff, suppliers, clients, government authorities and other stakeholders occur; and if required, independent testing of the Applicant's products or services is completed.

The Audit Report is provided in draft form to the Applicant, with a draft recommendation to the Certification Board. There are three recommendation options:

- GRANT
- GRANT on completion of corrective actions required; and
- DECLINE.

Should the draft recommendation be to "GRANT on completion of corrective actions", the Applicant is given a reasonable timeframe to complete those actions. A Final Audit Report is submitted to the Certification Board, and the Certification Board makes the final decision on the award of Green Tick[®] Certification. If the decision is to GRANT, the successful Applicant enters into a licensing agreement with GTC to use the Green Tick[®] brand as a certification mark for a period of three years. After three years, a recertification audit occurs to verify that the Applicant still meets the certification standards. At any time, GTC reserves the right to "spot audit" the Applicant, at no charge, with a minimum of 24 hours' notice.

The Final Audit Report is published on-line for free on the GTC website <u>www.greentick.com</u>. The certification is linked to GTC's Facebook page <u>http://www.facebook.com/pages/Green-</u><u>Tick-Certification-Limited/45639086590</u>. It is also linked to the GTC YouTube channel <u>www.youtube.com/greentickglobal</u>, if a YouTube video option has been chosen by the Applicant.



Figure 2: Global coverage of a successful certification



3 THE APPLICATION

3.1 Scope

The scope of this application includes the operations and services provided by ADA within NZ. This starts from the initial inquiry from customer, to delivery of contract documentation and construction observation. It does not include any work completed off-site by either contract staff or employees, or parts of projects undertaken by other specialists such as engineers, surveyors or quantity surveyors, whether their work forms part of the design and contract documentation or not. ADA operates nationwide, and provides architectural services to residential, commercial and industrial clients throughout NZ.



Figure 3: Sustainable design criteria used by ADA

ADA has a strong commitment to genuine sustainable design, with all its designers working as Homestar Practitioners. ADA in its Environmental Policy has committed itself to designing all new residential projects with a minimum Homestar rating of 4, with 75% of projects to level 5, and 10% over 6. The Homestar rating scheme provides detailed guidance on the incorporation of sustainability principles into a home's design. Points can be awarded for design features in energy efficiency, health and comfort, water, waste, management, materials, site aspects and innovation (see Appendix 2). ADA completes a rating based on the design it has done, and the client's brief. An official Homestar rating is received when built and independently assessed by Homestar.

The Building Research Association of NZ (BRANZ) promoted the now discontinued Green Home Scheme. This scheme had 13 criteria covering key aspects such as site selection, thermal efficiency, sustainable materials, water economy, climate change readiness, hazardous material storage and waste management (see Appendix 3). These two schemes specify readily auditable standards enabling comparison of specific designs with the minimum design standards required to achieve the desired rating. ADA also partners with Heart of Green, a local company specialising in solutions for energy efficiency and comfort in homes.

Thus the application for certification is threefold:

- 1. Corporate certification of ADA as an architectural business dedicated to sustainability;
- 2. Service certification of ADA as an architectural practice that delivers sustainable design services; and



3. Operational certification of ADA as a professional services business that operates in a sustainable manner.

3.2 Description of operations

3.2.1 Architectural services

Customers contact ADA either by phone, from ADA's website, in email or in-person. A meeting is arranged either in the office or frequently at the project location or client's home. A design brief is agreed and contract signed.

The designer then prepares concept design(s), which is presented to the customer. This is usually by email with a follow-up meeting. Any amendments are negotiated and developed designs are presented to the customer either by email or follow-up meeting.

Once the customer is happy with the design, approval is given to commence to consent drawing stage. This is normally undertaken by the drawing staff on high-tech CAD computer systems. Draft plans for checking, are printed on the back of paper recycled from other jobs. Designers check and review these before the final plans are emailed to customers for approval. Plan sets are then printed for submission to the appropriate Territorial Authority for resource and /or building consent. Additional sets are printed if the project is subject to a tender process.

If the engagement also includes construction observation or contract administration then contract documents will be prepared, site meeting minutes held, progress claims certified and variations processed. Progress photos will also be taken. Electronic records of all documentation and project files are held by ADA for at least 10 years.

3.2.2 Professional office operations

The ADA professional services office is located in a commercial area in the coastal township at 6-8 Seaview Road, Paraparaumu Beach on the Kapiti Coast north of Wellington city in NZ.

The office is a typical modern commercial office equipped with personal computers, printers, plan printers, desks and design bays, with a meeting room and staff kitchen. It is well orientated to capture natural light. Lighting in most of the commercial office areas has recently been upgraded to more efficient LED systems. Heating is by heat pumps, with auxiliary heating to remote parts of the office with stand-alone electrical heaters

Water is from local authority supply, wastewater services are also provided by community sewerage systems to consented treatment and disposal facilities. Compostables and domestic refuse go to local authority recycling bins (eg. paper, plastics, metals), and disposal services.

Staff maximise use of remote sensing equipment and videoconferencing technologies to minimise travel, with vehicle kilometres all related to specific projects or business



administration tasks. Staff are encouraged to use public transport, or walk or cycle to work, with a shower provided in the office, and space to store bikes. Air travel is minimal, and domestic in nature.

Table 1 summarises some sustainability practices currently observed at ADA's office.

Table 1: Sustainability practices at ADA's office

Sustainability Practice	Description
	PSU's in new PCs are 80PLUS Bronze certified
	Latest components are more efficient with less power consumption
	Computers and monitors go into sleep/energy saving mode after set time
Energy efficiency – personal computers and printers	Computers and monitors turned off overnight, except for main server
	Printers on energy saving mode overnight
	Use draft mode for printing (50%) toner saving
	Use rechargeable batteries on electronic devices
	Recycle printer consumables (toner cartridges, imaging units and other) with TRC
	Parts from no longer required computers kept as spares
Recycling	Give away old computers to charities or recycling centres
receyching	Two way paper recycling:
	 Print on back of used A3 and A4 sheets for internal use Finally green bin (recycling)
	Keep number of printed products to a minimum. Only commonly used manuals kept as hard copy
Electronic filing	Manuals kept as e-copy, only printed (parts) if required for building consent applications
	Send files electronically and use internet file sharing systems
General waste	Recycle waste in local authority green bin system if possible

3.3 Certification boundaries

The certification boundaries set for this audit are:

START: ADA Inwards Goods at the Kapiti office site.

OPERATIONS: ADA operations at the Kapiti office site, and at client sites.

STOP: ADA Outwards Goods at the Kapiti office site.



3.4 Life cycle

Figure 4 below illustrates the life cycle of ADA's operations.



Figure 4: ADA operations life cycle

Architectural services provided by ADA are focused on sustainable design features to maximise, for example, the efficient use of space and light. Figure 5 illustrates some examples of ADA's sustainable design innovations.



Figure 5: ADA sustainable design examples

(Photographs: Left photo Dominion Post, Right photo Paddy Riley)



4 AUDIT METHODOLOGY

4.1 Documentation review

The first phase of the audit process involved the collection of the Applicant's health, safety and environmental information for the previous 12 month period. ADA elected to use the *Application for Certification: Supporting Information* template provided on a complimentary basis to all Green Tick[®] applicants. ADA provided certification documentation by completing the template, accompanied by copies of their:

- *Ferndale Show Home Custom Solution Report* (for David Reid Homes date: 20.11.2009);
- Green Home Scheme Report Ferndale Show Home (for David Reid Homes);
- Home Star Credit Summary for a 7 Star Design Home (Mr & Mrs Smith, Carterton, total score 71.8);
- H1 Energy Analysis Calculation for Mr and Mrs Smith's house in Carterton;
- Building Consent Drawings Schedule dated 01.07.2011 for Mr and Mrs Smith's house in Carterton;
- Occupational Safety and Health Policy and Plan dated 1 June 2012 sighted 31 August 2012;
- Environmental Policy and Plan dated 15 August 2012 sighted 31 August 2012;
- Electricity, air and vehicle travel records for the previous 12 months; and
- Business carbon footprint of 5.2 tonnes CO₂e for the previous year (Ministry for the Environment worksheets 2010, <u>http://www.mfe.govt.nz/publications/climate/guidance-</u> greenhouse-gas-reporting-2010/).

4.2 Site visit

A site visit to the Paraparaumu office site was carried out by the Green Tick[®] Lead Auditor on Friday 31 August 2012. The purpose of the site visit was to verify that the certification documentation is accurate, conduct a walk-through of the site facility with ADA staff to observe operations live on site, and to discuss with staff the sustainability practices, culture, and commitment of the organisation being audited.

4.3 Compliance check

The Compliance Check involved telephone inquiries to authorities, and a review of their online databases. It concluded that no consents are required for ADA's activities at the site.

4.4 Stakeholder inquiries

Inquiries to the relevant health and safety and environmental authorities revealed that ADA's operations are fully compliant and have generated no complaints or community concerns. ADA has a good reputation in the community as a genuinely "green" designer of sustainable buildings, and has won a large number of industry awards for its designs, notably a Gold Award from the Master Builders Federation for Sustainable Home Design with the Ferndale Show Home in 2010.



5 AUDIT FINDINGS

5.1 Life cycle analysis

The life cycle analysis followed the sustainability practice of ADA through its life cycle as a professional services office operator in Figure 4 (ADA itself as a sustainable business). Discussions with ADA's staff showed that they have a good understanding and strong commitment to life-cycle based efficiency as the foundation of sustainability. ADA's staff had detailed knowledge of day-to-day sustainability practices that are core for a genuinely sustainable business, such as being aware of energy efficiency, recycling of office materials, and keeping the carbon footprint down by minimising unnecessary travel or plan printing. The staff interviewed mentioned areas in their line of work where they thought they could look for improvement by innovation or more careful housekeeping. They also noted that building authorities' outmoded requirements to receive two or even three hard copies of crossent drawings added significantly to ADA's and Council footprints, when using e-copies of drawings is now standard across the construction industry. ADA has provided a carbon footprint calculation of 5.2 tonnes CO₂e for its previous year of office operation. ADA is now considering forming a sustainable procurement policy so it can seek goods and services from sustainable suppliers, and encourage the spread of sustainable practice up the supply chain.

With respect to sustainable architectural design, ADA provided some examples of projects where it has used the Homestar and BRANZ Green Home rating programmes to supply proven sustainable design to customers. Both of these schemes are detailed, life cycle-based design systems. The examples submitted are summarised below.

5.2 Homestar and Green Home examples

5.2.1 Homestar example

This example was presented with three source references:

- Home Star Credit Summary for a 7 Star Design Home (Mr & Mrs Smith, Carterton, total score 71.8);
- H1 Energy Analysis Calculation; and,
- Building Consent Drawings Schedule dated 01.07.2011.

A 3D perspective, and the floor plan of the Smith residence are shown below in Figures 6 and 7.







Figure 6: 3D perspective Smith residence

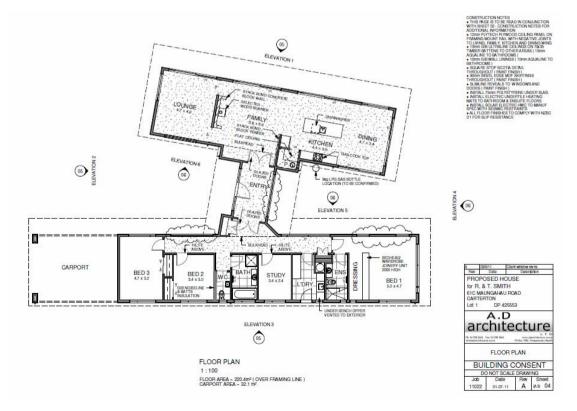


Figure 7: Floor plan Smith residence



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Table 2 summarises the credit summary for the Homestar example.

Table 2: Homestar credit summary

OVERALL SCORE:			A CALL STORE	the state	7 Stars
SVERALL SOORE.			And Andrews of the		11.0
redit	Credit No.	Points Available	Points Achieved	Adjusted Points Available	Weighted Points for NAs
nergy, Health and Comfort		128 B-1212	na li nazione	C. M. B. C.	
Space Heating	EHC-1	6.0	5.7	6.0	5.70
Hot Water	EHC-2	4.5	4.1	4.5	4.1
Lighting	EHC-3	2.0	0.5	2.0	0.5
Whiteware and Appliances	EHC-4	2.0	1.6	2.0	1.6
 Renewable Energy Whole House Thermal Performance 	EHC-5 EHC-6	8.0 12.0	0.0 11.4	8.0 12.0	0.0
Moisture Control	EHC-8	4.5	4.0	4.5	4.0
Washing Line	EHC-8	1.0	0.8	1.0	0.8
Sound Insulation	EHC-9	3.0	3.0	3.0	3.0
Inclusive Design	EHC-10	3.0	2.0	3.0	2.0
 An annual contraction of the state of the st	TOTAL	46.0	33.1	46.0	33.1
and sector and the sector of the			Manager and the		
Vater Rainwater Harvesting	WAT-1	6.0	6.0	6.0	6.0
Internal Potable Water Use	WAT-2	6.0	5.1	6.0	5.1
Grey Water Reuse	WAT-3	3.0	3.0	3.0	3.0
	TOTAL	15.0	14.1	15.0	14.1
and the second					
Naste	INCT 4	2.0	3.0	3.0	3.0
Construction Waste Management Construction Waste Reduction	WST-1 WST-2	3.0 3.0	2.0	3.0	2.0
Household Recycling Facility	WST-3	1.0	1.0	1.0	1.0
Composting Facilities	WST-4	2.0	2.0	2.0	2.0
	TOTAL	9.0	8.0	9.0	8.0
Jana Romont			and the second second	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Management Miscellaneous	MAN-1	2.0	2.0	2.0	2.0
Security	MAN-2	3.0	2.0	3.0	2.0
Home User Guide	MAN-3	2.0	2.0	2.0	2.0
Responsible Contracting	MAN-4	2.0	1.0	2.0	1.0
	TOTAL	9.0	7.0	9.0	7.0
Vaterials	Warner and			A CARE AND A	
Materials Selection	MAT-1	9.0	5.0	9.0	5.0
VOCs & Toxic Materials	MAT-2	3.0	3.0	3.0	3.0
	TOTAL	12.0	8.0	12.0	8.0
Site				C. S. C.	Contraction of the second
Stormwater Management	STE-1	4.0	4.0	4.0	4.0
Native Ecology	STE-2	1.5	0.0	1.5	0.0
On Site Food Production	STE-3	1.5	1.5	1.5	1.5
Transport	STE-4	2.0	1.0	2.0	1.0
	TOTAL	9.0	6.5	9.0	6.5
Innovation		The second second			
Innovation	INN	5.0	0.0	5.0	0.0
	TOTAL	5.0	0.0	5.0	0.0



5.2.3 Green Home example

This example was presented with two source references:

- *Ferndale Show Home Custom Solution Report* (for David Reid Homes date: 20.11.2009);
- Green Home Scheme Report Ferndale Show Home (for David Reid Homes).

A 3D perspective and floor plan for the show home appear below in Figures 8 and 9.









Figure 8: 3D perspective Ferndale Show Home



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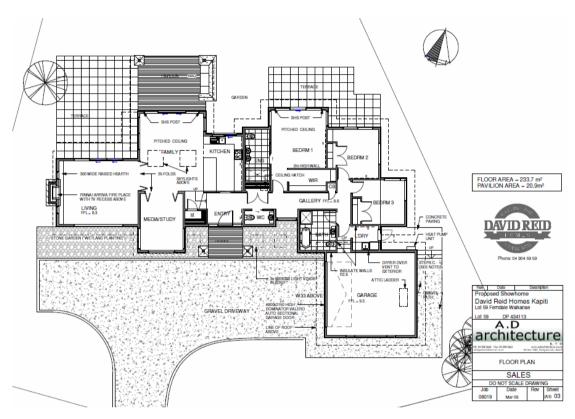
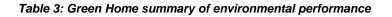


Figure 9: Floor plan Ferndale Show Home



The Green Home performance summary is shown below in Table 3.



fair good very good excellent 40 56 70 87 Assessment Worksheet: Performance Summary ISSUE Your Possible Score Score Score 1. Thermal Efficiency 23 27 2. Appliance Efficiency 18 21 3. More Sustainable Matrials 24 26 4. Recyclable Material Storage 4 4 5. Water Economy 15 20 6. Site Selection 5 5 7. Compost System 3 3 8. Spacial Efficiency 0 8 9. Climate Change Readiness 16 22 10. Moisture Management 5 6 11. Smoke Detection 7 7 12. Hazardous Material Storage 2 4 Bonus Issue: Design Excellence 3 8 Total 125 161 relum to too Project Id: 94 Project Name David Reid Show Home - Ferndale Owner: First Name Tim Surname Sunderland <th>alanda ka daga sa kaga kaga kaga kaga kata ka</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	alanda ka daga sa kaga kaga kaga kaga kata ka						
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9. Climate Change Readiness 16 22 10. Moisture Management 5 6 11. Smoke Detection 7 7 12. Hazardous Material Storage 2 4 Bonus Issue: Design Excellence 3 8 Total 125 161 Project Id: 94 Project Name: David Reid Show Home - Ferndale Owner: First Name Tim Surname Sunderland Building: Address 1 3 Ferndale Drive	7. Compost System	3	3				
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11. Smoke Detection 7 7 12. Hazardous Material Storage 2 4 Bonus Issue: Design Excellence 3 8 Total 125 161 Project Id: 94 Project Name: David Reid Show Home - Ferndale Owner: First Name Tim Surname Sunderland Building: Address 1 3 Ferndale Drive	9. Climate Change Readiness	16	22				
12. Hazardous Material Storage 2 4 Bonus Issue: Design Excellence 3 8 Total 125 161 Project Id: 94 Project Name: David Reid Show Home - Ferndale Owner: First Name Tim Surname Sunderland Building: Address 1 3 Ferndale Drive	10. Moisture Management	5					
Bonus Issue: Design Excellence 3 8 Total 125 161 Project Id: 94 Project Name: David Reid Show Home - Ferndale Owner: First Name Tim Surname Sunderland Building: Address 1 3 Ferndale Drive							
Total 125 161 Project Id: 94 Project Name: David Reid Show Home - Ferndale Owner: First Name Tim Surname Sunderland Building: Address 1 3 Ferndale Drive							
Project Id: 94 Project Name: David Reid Show Home - Ferndale Owner: First Name Tim Surname Sunderland Building: Address 1 3 Ferndale Drive							
Project Id: 94 Project Name: David Reid Show Home - Ferndale Owner: First Name Tim Surname Sunderland Building: Address 1 3 Ferndale Drive	Total	125	161				
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Project Name: David Reid Show Home - Ferndale Owner: First Name Tim Surname Sunderland Building: Address 1 3 Ferndale Drive	Project Id: 94					Telain to top	
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Surname Sunderland Building: Address 1 3 Femdale Drive	Owner: First Name Tim	1					
Building: Address 1 3 Femdale Drive							
	Surfame Su	laciana					
	Building: Address 1 3 F	emdale [Drive				
Address 2 Femdale			21146				
Address 2 ji eindale	Address 2 Fei	ndale					

These examples, and their very detailed design specifications, made it very easy for the auditor to verify the robustness of the sustainability design principles followed and implemented by ADA to levels well in excess of the minimum required.



5.3 Management of material risks

The audit process identified five material sustainability risks for ADA. Table 4 below describes those risks and how they are managed by the company.

Table 4: Key Risks

Risk Type	Description	Risk Level	Risk Priority	Action
		1= very high	1= highest	
		5 = very low	4 = lowest	
Territorial authority (TA) IT compliant documentation and version control	TA's cannot use standard Adobe documents, means all documents must be printed	1	1	Currently print documentation. Talk to TAs about options for the future
Leaky building claims	Claims on work completed in the last 10 years	3	1	Keep appropriate insurance in place. Maintain very high standard of documentation during construction
Provision of out of date information or advice	Failing to remain up to date with technological advances or code changes	2	1	Retain ADNZ professional status for Directors. Read trade information regularly. Attend CPD events
Accidents during building site visits	Failure to adhere to site safety instructions, wear or use appropriate safety equipment	1	1	Provision of training for staff Provide appropriate safety gear such as hi-viz vests, hard hats, torch. Ensure appropriate footwear is worn on sites. Ensure staff adheres to site safety instructions.
Occupational overuse syndrome	OOS symptoms due to repetitive work, bad posture or lack of breaks	1	1	Ensure all computer equipment is personally fitted. Ensure staff are trained to take breaks, problems reported

5.4 Sustainability culture and practice

A genuine sustainability culture, and embedded sustainability practices based on ADA's management and staff commitment to sustainability are present at every level in the ADA operation – this is regarded as 'business as usual'. The company is "walking the talk" by patiently and steadily promoting efficient and comfortable building designs with net positive impacts to its clients and to colleagues within the building and construction industries. In this way, ADA seeks to gradually raise the standards of all the building projects and stock that it is responsible for in the market. ADA is actively working on improving its performance, and is seeking independent, scientific sustainability certification to verify its commitment to minimising its impacts upon the environment by efficient practice, transparency, and continuous improvement. By using footprinting technologies and dedicated sustainability design tools now available in the construction industry, especially through the Homestar and Green Homes programmes, ADA is able to provide solid, independently verifiable evidence of state-of-the-art sustainability practice both in the office, and in the conduct of its architectural services for clients.



6 COMPLIANCE SUMMARY

6.1 Sustainable certification

Table 5: Green Tick[®] SUSTAINABLE Compliance Summary

KEY	STANDARD:	EVIDENCE PRESENTED	COMPLIANCE
PERFORMANCE	GREEN TICK	OR SIGHTED	
INDICATOR	SUSTAINABLE		
1.1 Safety Accident Record	No major harm	Accident register	EN TICA
Accident Record	accidents, incidents, injuries recorded in		
	past 12 months.		
1.2 Safety	No substantiated staff	Complaints register	
Staff Health and	complaints about	Staff interviews	UN TICA
Safety (H&S)	working conditions in	Site Safe certificates	5
	past 12 months.		
1.3 Safety	No substantiated	Complaints register	TICA
Supplier Health and	supplier issues with on-		
Safety	site working conditions in		
1.4 Safety	past 12 months. No substantiated	Complaints register	
1.4 Safety Customer Health	customer complaints	Complaints register	
and Safety	about health or safety		UN TICK
,	issues (including product		le state and the second
	quality) in past 12		
	months.		
1.5 Safety	OSH-compliant health	Accident register.	
Management System	and safety management system in place.	H&S Management System policy and records.	USA TICAT
	system in place.	policy and records.	5
1.6 Safety	Annual reviews of	H&S Management System	
Minimising Risk	potential risk areas and	records	UN TICAT
	mitigation taken.		Here and the second sec
1.7 Safety	Less than five minor	Accident register	
Performance	non-conformances per	Staff interviews	TICA
Records	100 workers to H&S		
	management system		•
	reported in past 12 months.		
1.8 Safety	i) 100% compliance with	Accident register.	
Legal Compliance	all legal requirements;	H&S Management System	TICA
-	ii) No successful	records. Inquiry to OSH	
	enforcement actions by	authority.	
	government agencies in		\smile
	past 12 months.		



KEY	STANDARD:	EVIDENCE PRESENTED	COMPLIANCE
PERFORMANCE	GREEN TICK	OR SIGHTED	
INDICATOR	SUSTAINABLE		
2.1 Environmental	All product content identified	Applicant's records of	AN TICA
Product Origin	by country of origin.	product/service origin and	
		sourcing.	
2.2 Environmental	Product meets all quality	Applicant's quality records,	
Product Quality	standards of industry or	tests, inspections, surveys.	EN TICAT
-	government authority.	Food Safety Authority	(Hereit and the second se
		records, or equivalent for	
		other industry types.	
2.3 Environmental	Labeling meets required	Applicant's labeling criteria,	ANTICA
Product Labeling	legal standards.	labeling examples.	
		Government authority	
2.4 Environmental	i) Programme in place to	i) Applicant's records and	
Resource Use	maximise resource use	targets, eg. raw materials,	
	efficiency with defined	equipment, carbon, energy,	
	performance targets;	water use.	
	ii) Resources used at lowest	ii) Details of technologies	
	practical for site/s with	used to achieve targets.	
	current technology per sales	Records of system	
	unit;	performance and any	
	iii) Programme in place to	independent audits	SAN TICA
	identify and use recycled	completed.	5
	materials where appropriate;	iii) Details of recycled	
	iv) Where resource use is	products used (if any),	
	extractive, relevant industry or government sustainability	material recycled (if any), recycling programmes and	
	standards met.	performance.	
	Standards met.	iv) Applicant's records of	
		extractive uses that meet	
		sustainability levels,	
		allocations or limits.	
2.5 Environmental	Chemical residues comply	Applicant's records of	
Chemical Use	with industry or government	chemical purchase, use and	
	standard.	management of residues and	NTICA
		their environmental effects.	
		Government Environmental	
		Agency or other independent	
		records that verify residue status.	
2.6 Environmental	i) Programme in place to	i) Results of internal	
Energy Use	minimise energy use with	programmes to minimise	
	defined performance	energy use.	
	targets;	ii) Details of technologies,	
	ii) Energy resources used at	manufacturing systems used	
	lowest practical for site/s	to achieve energy	SAN TICA
	with current technology per	efficiencies. Reports or	5
	sales unit.	records to show systems	
		chosen are the best for the	
		circumstances. Records of system performance and any	
		independent audits	
		completed.	
2.7 Environmental	No substantiated complaints	Complaints register.	
Nuisance Effects	from neighbours about	Local Government Authority	Stat TICA
	nuisances in past 12	(Council), and or Health	3
	months.	Authority complaints register.	
2.8 Environmental	i) Programme in place to	i) Applicant's records of	
Contaminant	minimise contaminant	means used to minimise	SN TICAT
Discharges	discharges with defined	contaminant discharges.	(E
	performance targets;	Records of system	
	ii) Contaminant discharges	performance, independent	



KEY	STANDARD:	EVIDENCE PRESENTED	COMPLIANCE	
PERFORMANCE	GREEN TICK	OR SIGHTED		
INDICATOR	SUSTAINABLE			
	at lowest practical for site/s	audits.		
	with current technology per	ii) Reports or records to show		
	sales unit.	systems chosen the best for		
		circumstances. Government		
		Environmental Agency or		
		other independent records		
		that verify reported		
		performance.		
2.9 Environmental	i) Waste minimization and	i) Applicant's records of		
Waste	recycling programme in	programmes in place.		
Management	place with defined	Records of system		
	performance targets; ii) Wastes reduced, re-used,	performance and any independent audits		
	recycled, or properly	completed.		
	disposed to authorised	ii) Records that show how		
	facilities.	wastes managed, eg. those	HTICA	
		reduced, reused, recycled, or		
		disposed. Evidence that		
		wastes properly disposed to		
		authorised facilities.		
		Government Environmental		
		Agency, Local Authority, or		
		other independent records		
		that verify reported waste		
		management.		
2.10	Environmental management	Applicant's EMP or formal		
Environmental	programme (EMP) or formal	EMS. Applicant's objectives	TICA	
Management System	environmental management	and policies on environmental management,	and the second s	
System	system (EMS) in place with defined performance targets	and means to achieve and	3	
	consistent with industry or	monitor performance of		
	government standards.	objectives.		
2.11	Less than five minor non-	Applicant's EMP or EMS		
Environmental	conformances per 100	records.	TICA	
Management	workers with EMS reported	Records of system		
Performance	in past 12 months.	performance and any	6	
		independent audits		
		completed.		
2.12	i) 100% legal compliance	i) Applicant's EMP or EMS		
Environmental	with any environmental	records.		
Legal Compliance	consents and applicable	ii) Government	UN TICK	
	plan rules;	Environmental Agency, Local	(ž	
	ii) No successful	Authority, or other		
	enforcement actions by	independent records that		
	government environmental agencies in past 12 months.	verify reported compliance.		
	agencies in past 12 months.			

Ends.



6.2 Carbon Neutral Certification

To achieve carbon neutral certification, the Applicant must:

- (a) Meet the standards for Green Tick[®] Sustainable certification; and,
- (b) Be carbon neutral over its whole life cycle according to ISO 14064:2006 for organisations or PAS 2050 for products; or,
- (c) Must hold sufficient verified carbon credits to achieve carbon neutral status for the organisation or product over its whole life cycle.

As an organisation, ADA has a very small carbon footprint at 5.2 tonnes CO_2e per annum. It has offset this amount by purchasing carbon credits; see Appendix 4 for purchase certificate. The Green Tick[®] auditor has checked the calculations and statements made to certify that the claims are properly scoped, calculated, and presented in accordance with the relevant ISO standards.

ADA is proceeding with a footprinting project to carbon footprint and total footprint one of its residential designs. As far as is known, this will be the first time that an entire house has been fully footprinted according to the relevant international standards.



7 RECOMMENDATION



That GREEN TICK[®] SUSTAINABLE AND CARBON NEUTRAL CERTIFICATION is <u>GRANTED</u> to the Applicant:

NAME: AD ARCHITECTURE LIMITED

SERVICE: ARCHITECTURAL DESIGN AND SUPERVISION

SITES: (1) THE PIER, 6-8 SEAVIEW ROAD, PARAPARUMU BEACH, WELLINGTON 5252

(2) CLIENT CONSTRUCTION SITES

SIGNED:

arris

SUSAN HARRIS BSc (Hons), MEIANZ, MNZPI LEAD AUDITOR CERTIFICATE NUMBER: 4732SAI

Date: 18 September 2012

APPROVED:

fings.

JEFFREY V KEMP

Date: 19 SEPTEMBER 2012



CHAIR - CERTIFICATION BOARD

OBSERVATION (<u>not</u> part of the audit recommendation):

1. That the company would benefit from carbon footprinting and total footprinting a residential project example to provide a robust example of certifiable sustainability profiling and leading edge architectural design.



8 APPENDICES

8.1 Appendix 1: Green Tick[®] certification standards

http://www.greentick.com/Html/standardsF.html

8.2 Appendix 2: Homestar standards

http://homestar.org.nz/what-matters

8.3 Appendix 3: Green Home standards

http://www.greenhomescheme.org.nz/



8.4 Appendix 4: Carbon credit purchase verification



%##estpac

Institutional Bank

Westpac Banking Corporation ABN 33 007 457 141

Interest Rates and Treasury Level 9, 55 Market Street, Sydney NSW 2000, Australia Telephone: +612 8254 8608 Facsimile: +612 9332 6969 SWIFT: WPACAU2F Email: derivative_operations@westpac.com.au

USA toll free: 1888 745 7719 UK toll free: 0800 969 633/634 NZ toll free: 0800 448 051

TAX INVOICE Invoice Number: OTC001470

Issue Date: 26th September 2012

AD Architecture Ltd Attn: Settlements

For the supply of New Zealand Units (NZUs) @ \$3.80 No of NZUs Price Total Westpac Banking 500 \$3.80 NZD 1,900.00 Corporation Sells

TOTAL AMOUNT DUE ON 27th September 2012

NZD 1,900.00

Please remit your payment to the following account:

Bank: Westpac Banking Corporation, Wellington WPACNZ2W Account Name: Westpac Banking Corporation, Sydney WPACAU2F Account No.: 000026NZD210501 Or Bank: Westpac Banking Corporation, Wellington WPACNZ2W

Account Name: Westpac Banking Corporation, Wellington WPACNZ2W

Account No.: 030059099003200

Approved by:

Navid Nawaz

Navid Nawaz Tier Three Attorney

[race y

Tracey Clarke



CONTRACT FOR SPOT SALE OF CARBON CREDITS BY WESTPAC CONTRACT DETAILS

1 Trade Reference Number:	OTC001470
2 Seiler:	Westpac Banking Corporation
3 Buyer:	AD Architecture Ltd
4 Unit Type:	New Zealand Units (NZUs)
5 Quantity:	500
6 Unit Price:	NZD 3.80 per NZUs
7 Total Price:	NZD 1,900.00
8 Transfer Date:	28 th September 2012 and if this date is not a Business Day the next Business Day after that date.
9 Payment Date:	27 th September 2012
10 Westpac's Relevant Registry Account:	NZ-1671
11 Westpac's Bank Account	030059099003200 with Westpac, Wellington
12 Buyer's Relevant Registry Account:	NZ-9505
13 Buyer's Relevant Registry Account Holder Name	AD Architecture Ltd
14 Default Interest Rate:	4% above the Reserve Bank's Official Cash Rate
15 Trade Date:	26 th September 2012

The parties agree that the contract between them comprises the Contract Details above and the terms and conditions set out in the attached *Carbon Credits Spot Contract Physical Terms and Conditions* (a copy of which was previously supplied to the Buyer by Westpac).

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Signed by

AD Architecture Ltd as the Buyer in the presence of

PETER Davis Director/Authorised Signatory Director/Authorised Signatory

Executed for and on behalf of WESTPAC BANKING CORPORATION By its authorised [signatory][signatories]

Authorised Signatory Navid Nawaz Tier Three Attorney lacel a. 1 Authorised Signatory Tracey Clarke Tier Three Attorney

Carbon Credits Spot Contract Physical Terms and Conditions

1, Definitions

Defined terms shall have the meaning set out in the Contract Details between Westpac and the Buyer and as set out below and in the case of any inconsistency the meaning in the Contract Details prevails. Reference to legislation includes reference to that legislation as amended or replaced from time to time, and any applicable regulations made thereunder.

"Business Day" means a day on which commercial banks and foreign exchange markets settle payments and are open for general business in the cities in which the New Zealand offices of Westpac and the Buyer (as noted in the Contract Details) are located.

"Carbon Credits" means the Quantity of the Unit Type to be sold by Westpac under a Contract incorporating these Terms and Conditions.

"Contract" means the agreement between the Buyer and Westpac for the sale of Carbon Credits to the Buyer by Westpac, such agreement to be recorded in the Contract Details and incorporate these terms and conditions.

"Contract Details" means the Contract For Spot Sale of Carbon Credits by Westpac Contract Details form prepared by Westpac.

"Relevant Registry" means a Registry through which either Party is obliged to perform a Transfer or acceptance obligation under and In accordance with these Contract Details.

"Settlement Disruption Event" means an event beyond the control of the parties as a result of which the Carbon Credits cannot be transferred, or transfer of the Carbon Credits cannot be registered in accordance with the Scheme Rules, or otherwise in accordance with the relevant legislation of the Relevant Registry.

"Scheme Rules" means the Climate Change Response Act 2002, any regulations issued there under and any other relevant legislation or scheme rules.

2. Sale and Purchase

Westpac has agreed to sell and the Buyer has agreed to purchase the Carbon Credits in accordance with the Contract.

3. Payment and Transfer

- (a) The Buyer shall pay the Total Price to Westpac by transferring that sum to Westpac's Bank Account in cleared funds no later than 2pm on the Transfer Date (time being of the essence to Westpac).
- (b) Upon being satisfied that it has the Total Price in full, without deduction and in cleared funds by 2pm, Westpac shall take all actions required by the Scheme Rules to transfer the Carbon Credits to the Buyer by 6.00pm (Wellington time) on the Transfer Date, provided that if Westpac is unable to transfer the Carbon Credits on the Transfer Date because of a Settlement Disruption Event, the Transfer Date will be the next Business Day on which the Settlement Disruption Event is no longer subsisting.
- (c) If Westpac does not receive the Total Price until later than 2pm on the Transfer Date, Westpac shall be under no obligation to effect transfer of the Carbon Credits by 6pm on the Transfer Date, but shall use reasonable endeavours to transfer the Carbon Credits as soon as possible and in any event by no later than by 6pm on the next Business Day after the date that Westpac receives the Total Price plus any default Interest payable in accordance with paragraph 5.

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4. Formation of Contract

The Contract is formed and becomes blnding and enforceable upon the execution of the Contract Details by both the Buyer and Westpac.

5. Default Interest

If the Buyer does not pay the Total Price on the Transfer Date, the Buyer will pay Westpac interest, compounded daily at the Default Interest Rate on the Total Price from the Transfer Date until the date that payment actually occurs.

6. Goods and Services Tax (GST)

- (a) The parties agree that the supply made pursuant to this Agreement is a supply of services under section 11A of the GST Act on which GST is chargeable at 0%.
- (b) If however GST is payable in respect of the supply of Carbon Credits under this Contract, then:
 - (i) The Buyer shall pay to Westpac the GST which is so payable in one sum on or before the Transfer Date;
 - (ii) If any GST is not paid to Westpac the Buyer shall pay Westpac (1) Interest, compounded daily at the Default Interest Rate on the amount of GST unpaid from the Transfer Date until payment; and (2) any Default GST. "Default GST" means any interest, late payment penalty, shortfall penalty or other sum imposed on Westpac under the Tax Administration Act 1994 by reason of non-payment of any GST payable in respect of the supply made under the Contract.

7. Warranties

- (a) Westpac warrants that, at the time of transfer to the Buyer, the Carbon Credits transferred to the Buyer under the Contract:
 - (ii) are owned by Westpac with full legal and beneficial title; and
 - (iii) are free and clear of any security interest, claim, lien or encumbrance of any kind.
- (b) Each party warrants that It has the power and authority to enter into, and perform its obligations under, this Contract, and this Contract constitutes legal, valid and binding obligations of the party enforceable in accordance with its terms.
- (c) Each party warrants that it has at all times fully complied with all applicable law to the extent necessary to permit the transfer of the Carbon Credits as contemplated by this Contract.

8. Performance of Buyer's Obligations

If at any time the Buyer fails to duly perform any obligation under the Contract, Westpac or its employees or any party authorised to act on its behalf may do anything which in their opinion is necessary or expedient to make good or attempt to make good that failure to their satisfaction.

9. Indemnity

The Buyer indemnifies Westpac against any loss, damages or costs Westpac incurs as a result of or in connection with any breach of the Contract by the Buyer, including without limitation any legal costs on a solicitor-client basis.



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