

Design, Access, Flood Risk And Sustainability Statement

For

Revisions to Approved Application
APP/14/00959
(Erection of a 5 Bed Detached Two Storey Dwelling
With Integral Garage)

At

200 Sea Front
Hayling Island
Hampshire
PO11 9HR

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December 2015

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200 Sea Front, Hayling Island, Hampshire, PO11 9HR

0.0	Contents
1.0	Generally
2.0	Physical Context
3.0	Social/Economic Context
4.0	Involvement of Local Interests
5.0	Amount
6.0	Layout
7.0	Evaluation
8.0	Design Principles
9.0	Scale
10.0	Landscaping
11.0	Appearance
12.0	Access
13.0	Flood Risk
14.0	Sustainability
Appendix A	Surecalc Ltd. Reports

1.0 Generally

- 1.1 This Planning Statement is in support of an application to Havant Borough Council for revisions to approved application APP/14/00959 (Erection of a 5 Bed Detached Two Storey Dwelling With Integral Garage) at 200 Seafront, Hayling Island, Hampshire, PO11 9HR. The original application was made by MAA Architects on the 23rd September 2014.
- 1.2 No other purpose is anticipated or accepted. Copyright of this report remains with Martin Critchley, Chartered Architect.
- 1.3 Reference should be made to the planning submission drawings for details of the proposals, ref:

1582	-	101	Location and Block Plans
	-	111	Existing Site Plan
	-	112A	Proposed Site Plan
	-	113	Construction Phase
	-	411B	Proposed Ground Floor Plan
	-	412B	Proposed First Floor Plan
	-	413B	Proposed Roof Plan
	-	511C	Proposed Elevations
	-	512	Proposed Front Wall and Entrance Gates

2.0 Physical Context

- 2.1 Hayling Island is separated from the mainland by a narrow channel, traditionally known as Sweare Deep. It is accessible from Havant via a bridge at Langstone.
- 2.2 Hayling Island is situated to the south of Havant. It lies between Chichester Harbour to the east and Langstone Harbour to the west. Historically, it could be accessed from Portsea Island by ferry, but this service ceased running earlier in 2015.
- 2.3 Sea Front is a main road in the south of Hayling Island that runs east-west across almost the whole width of the island. As the name suggests, the coast is immediately to the south.
- 2.4 The properties along Sea Front are mostly residential, with several recreational facilities relating to the nearby beaches. The houses are of a variety of styles and periods with detached houses, townhouses and blocks of flats along the seafront. The property immediately to the east of the subject site is a larger dwelling faced with white render, and to the west there is a smaller rendered detached property with accommodation in the roof. Further to the west there are mainly blocks of flats faced with render, brickwork, and timber cladding.

- 2.5 The subject site is a currently vacant plot on the north side of Sea Front, with family homes to the east and west, the coast to the south, and Seacourt Tennis Club to the north.

3.0 Social / Economic Context

- 3.1 The south coast of Hayling Island is primarily residential, and fairly densely populated. It is a popular tourist destination during the summer, with a number of seasonal attractions along the seafront.
- 3.3 The nearest shopping district is approximately ten minutes walk away in West Town.
- 3.4 The site is 5.5 miles from the centre of Havant, where there are:
- High Street Shops
 - Supermarkets
 - Primary and Secondary Schools
 - Railway station (direct connections to London)
 - Bus Stations to all major towns
 - Public Houses / Restaurants
 - Motor Garages
 - Churches
 - Industrial Estates
- 3.5 There is a good bus route from Hayling Island to Havant, with regular busses from the seafront.

4.0 Involvement of local interests

- 4.1 This application involves revisions to approved application APP/14/00959, which was approved on 17th November 2014 by Aaron Wright following consultation.
- 4.2 A second application to amend the site boundary was made by MAA Architects on the 19th October 2015 and approved on 16th November 2015 by Daphney Haywood.

5.0 Amount

- 5.1 The site in the ownership of the applicants is approximately 923 m².
- 5.2 The proposed house will have an internal floor area of approximately 355 m².

5.3 The garage is integral.

5.4 A new crossover from Sea Front is proposed to create site access.

6.0 Layout

6.1 A key revision to the original design is the reversal of the floor plan. A visit to the site revealed that the Arborist's report, showing the true position of the trees on site, had not been taken into consideration. With the trees correctly plotted it became obvious that the approved site plan would not be feasible to build. Reversing the floor plan solves this problem by moving the single storey wing and front parking away from root protection zones.

6.2 The proposed house will be positioned centrally. The western (garage) side of the proposed house is intended to be in line with the neighbouring property No. 202. As the site is not square, the proposed house will also be set at approximately the same angle as No. 202 to provide visual continuity.

6.3 The proposed house is to be set a minimum 1.5m from the east and west boundaries.

6.4 The retained mature trees, as recommended in the Arboricultural Report, will form clearly defined garden areas at the front and rear.

6.5 The proposed driveway in front of the double garage is intended to be of sufficient size to accommodate at least three additional cars.

6.6 The revised proposal includes a new front boundary wall and railings with entrance gates in materials to match the proposed house. The other boundaries are protected by walls or fences in good repair and will remain as existing.

6.7 A new crossover to the driveway is also proposed.

7.0 Evaluation

7.1 The principle of development on this site has already been established in previous applications.

7.2 The style and scale of the house remains largely unchanged from the previous approval.

7.3 The reversal of the plan, as 6.1 above, should reduce the risk of overlooking from the front balcony. As the balcony design is stepped, there were concerns that the garden of No. 194 would be visible. By reversing the plan, only the driveway of No.

202 would potentially be visible, however as this is also clearly visible from the road it is considered that this would not be overly intrusive.

7.4 The proposed revisions to approved application APP/14/0095 are as follows:

- Rationalisation of internal walls to provide structural support and sufficient framework for structural steelwork.
- Rationalisation of window sizes.
- Removal of Garage side door. Addition of two windows, one obscure glazed at ground floor level and one on the first floor at high level.
- Provision for utilities and drainage.
- Single storey wing lengthened by 1.74m at the request of the applicants. Removal of roof lantern. Parapet wall height raised to allow for a 5 degree pitch zinc roof behind.
- Solar panels moved towards single storey wing roof to provide easier access for maintenance.
- Plan reversed to better suit site constraints.
- Additional information as required by the approval conditions.

8.0 Design Principles

8.1 The original proposal concept stated:

“The proposal is for a new house of contemporary design. The design responds to the site and its context through its form and choice of materials. The main living areas are on the first floor to allow for the panoramic views of the sea. The seaview aspect has influenced the design of the house allowing for roof terraces at first floor levels.”

8.2 The general design of the approved house will remain the same.

8.3 The revisions to the approved design have been made to address several issues that have arisen whilst working to discharge the planning conditions and produce detailed drawings for construction.

9.0 Scale

- 9.1 As 8.2 above, the general scale of the approved house will remain the same.
- 9.2 The difference in height to the approved building is an additional 30mm.
- 9.3 As 7.4 above, the single storey wing has been lengthened by 1.74m.

10.0 Landscaping

- 10.1 As per Condition 6 of approved application APP/14/00959, the proposed development works shall only be carried out in accordance with the Arboricultural Report and Tree Protection Plan prepared by A. P. Arboriculture.
- 10.2 All other landscaping works are at the discretion of the applicant.

11.0 Appearance

- 11.1 Materials are referred to in the approved Design and Access Statement as follows:

“The scheme proposes a limited palette of materials. The building will be clad with a combination of horizontal cedar cladding and areas of render and glass. The materials provide a crisp contemporary design that is also in keeping with the materials of the neighbouring properties. They have been arranged to reflect the functions of different parts of the building whilst also breaking up the mass.”
- 11.2 As cedar is difficult to maintain in a seaside environment, the applicants have requested the use of Marley Eternit Click External Cladding in Grey as a substitute.
- 11.3 Areas of render are to be in Sandtex Masonry Paint in Pure Brilliant White.
- 11.4 Windows are to be framed in stove enamelled aluminium, RAL 7024 (Graphite Grey). Entrance doors to be in laquered idigbo. Garage door to have simulated woodgrain finish to match entrance doors.
- 11.4 Brick courses in Bradgate Medium Greys are proposed to protect the base of the house. These will also be used in constructing the new front wall.
- 11.5 The roof is to be constructed using standing seam zinc at a 5 degree pitch.
- 11.6 Railings are to be galvanised steel.
- 11.7 The Driveway is to be finished in crushed granite chips, 25mm down.
- 11.8 The Footpath is to be in grey block paving with terracotta edging blocks.

11.9 The Patio is to be laid with reconstituted stone pavers, grey granite riven finish.

12.0 Access

12.1 It is the applicant's intention to meet the requirements of the Disability Discrimination Act 1995 (amended 2006).

12.2 It is the applicant's intention to meet the requirements of the Disability Discrimination (Employment) Regulations 1996.

12.3 It is the applicant's intention that where applicable, provisions are made in accordance with Approval Document M of the Building Regulations (current edition published January 2013).

12.4 It is the applicant's intention that, with regard to personnel access, inclusivity is achieved wherever reasonably possible.

12.5 Vehicle and pedestrian access to the site is from Sea Front.

12.6 As the proposed finished floor level is 300mm above ground level, a short 1:12 access ramp to the entrance door is proposed.

12.7 There are 2 covered parking spaces available and at least 3 additional parking spaces on the drive.

12.8 Emergency access is fully available from the public highway.

12.9 A bin area is proposed within 25 metres of Sea Front.

13.0 Flood Risk

13.1 The Environment Agency Flood Map indicates that the site lies within Flood Zone 1. As the site is coastal the finished floor level has been revised from 150mm above ground level to 300mm at the request of the applicants.

14.0 Sustainability

14.1 Condition 16 of approved application APP/14/00959 requires a compliance with Level 3 of the Code for Sustainable Homes. As the Code for Sustainable Homes has been withdrawn since the approval was made, the proposal aims to obtain Level 4 in Energy and Water and Level 3 elsewhere. Initial calculations by Surecalc Ltd. are included in Appendix A as an example.

The following measures and proposals are made in the terms recommended in the BREEAM (Building Research Establishment, Environmental Assessment Method).

14.2**Management.**

It is the applicant's intention to:

1. Recognise and encourage an appropriate level of building services commissioning that is carried out in a co-ordinated and comprehensive manner, thus ensuring optimum performance under actual occupancy conditions.
2. Recognise and encourage construction which is managed in an environmentally and socially considerate and accountable manner.
3. Recognise and encourage construction to be managed in an environmentally sound manner in terms of resource use, energy consumption and pollution.
4. Recognise and encourage the guidance for the non technical building user so they can understand and operate the building efficiently.
5. Recognise and encourage the implementation of effective design measures that will reduce the opportunity for and fear of crime on the new development.
6. Recognise and encourage the specification of a building and building services that can be easily maintained during their life cycle.
7. Recognise and encourage the development of a Life Cycle Cost (LCC) analysis model for the project to improve design, specification and through-life maintenance and operation.

14.3**Health and Wellbeing.**

It is the applicant's intention to:

1. Give building users sufficient access to daylight.
2. Reduce the risk of health problems related to the flicker of fluorescent lighting.
3. Ensure lighting has been designed in line with best practice for visual performance and comfort.
4. Ensure occupants have easy and accessible control lighting within each relevant building area.

5. Recognise and encourage adequate cross flow of air in naturally ventilated buildings and flexibility in air-conditioned / mechanically ventilated buildings for the future conversion to a natural ventilation strategy.
6. Reduce the risk to health associated with poor indoor air quality.
7. Recognise and encourage a healthy internal environment through the specification of internal finishes and fittings with low emissions of volatile organic compounds. (VOC's).
8. Ensure, with the use of design tools, that appropriate thermal comfort levels are achieved.
9. Recognise and encourage the provision of user controls which allow independent adjustment of heating/cooling systems within the building.
10. Ensure the acoustic performance of the building meets the appropriate standards for its purpose.
11. Recognise and encourage the provision of external amenity space for building users.

14.4

Energy.

It is the applicant's intention to:

1. Recognise and encourage buildings that are designed to minimise CO² emissions associated with their operational energy consumption.
2. Recognise and encourage the specification of energy-efficient light fittings for external areas of the development.
3. Reduce carbon emissions and atmospheric pollution by encouraging local energy generation from renewable sources to supply a significant proportion of the energy demand.
4. Recognise and encourage the specification of energy-efficient transportation systems.
5. Recognise and encourage procurement and commissioning of energy-efficient equipment to ensure optimum performance and energy savings.

14.5

Transport.

It is the applicant's intention to:

1. Encourage building users to cycle by ensuring adequate provision of cycle facilities.

2. Recognise and encourage the provision of safe and secure pedestrian and cycle access routes on the development.
3. Recognise the consideration given to accommodating a range of travel options for the building users, thereby encouraging the reduction of user reliance on forms of travel that have the highest environmental impact.
4. Encourage the use of alternative means of transport to the building other than the private car, thereby helping to reduce transport related emissions and traffic congestion.
5. Ensure that safety is maintained and disruption due to delivery vehicles minimised through well planned layout and access to the site.

14.6

Water.

It is the applicant's intention to:

1. Minimise the consumption of potable water in sanitary applications by encouraging the use of low water use fittings.
2. Ensure water consumption can be monitored and managed and therefore encourage reductions in water consumption.
3. Reduce the impact of major water leaks that may otherwise go undetected.
4. Reduce the risk of minor leaks in toilet facilities.
5. Encourage the collection and re-use of waste water or rainwater to meet toilet flushing needs, and reduce the demand for potable fresh water.
6. Reduce the consumption of potable water for ornamental planting and landscape irrigation.

14.7

Materials.

It is the applicant's intention to:

1. Recognise and encourage the use of construction materials with a low environmental impact over the full life cycle of the building.
2. Recognise and encourage the specification of materials for boundary protection and external hard surfaces that have a low environmental impact, taking account of the full life cycle of materials used.
3. Recognise and encourage the in-situ re-use of existing building facades.

4. Recognise and encourage the re-use of existing structures that previously occupied the site.
5. Recognise and encourage the specification of responsibly sourced materials for key building elements.
6. Recognise and encourage the use of thermal insulation which has a low embodied environmental performance relative to its thermal properties and has been responsibly sourced.
7. Recognise and encourage adequate protection of exposed parts of the building and landscape, therefore minimising the frequency of use of replacement materials.

14.8**Waste.**

It is the applicant's intention to:

1. Promote resource efficiency via the effective and appropriate management of construction site waste.
2. Recognise and encourage the use of recycled and secondary aggregates in construction, thereby reducing the demand for virgin material.
3. Recognise the provision of dedicated storage facilities for a building's operational related recyclable waste streams, so that such waste is diverted from landfill or incineration.
4. Recognise and encourage the provision of facilities which enable efficient and hygienic waste sorting and storage.
5. Encourage the provision of facilities that help facilitate the reduction in volume of compostable organic waste going directly to landfill during the building's operation.

14.9**Land Use and Ecology.**

It is the applicant's intention to:

1. Encourage the re-use of land that has been previously developed and discourage the use of previously undeveloped land for building.
2. Encourage positive action to use contaminated land that otherwise would not have been remediated and developed.
3. Encourage development on land that already has limited value to wildlife and to protect existing ecological features from substantial damage during site preparation and completion of construction works.
4. Minimise the impact of a building development on existing site ecology.

5. Recognise and encourage actions taken to maintain and enhance the ecological value of the site as a result of development.
6. Minimise the long term impact of the development on the site's, and surrounding area's biodiversity.

14.10

Pollution.

It is the applicant's intention to:

1. Reduce the contribution to climate change from refrigerants with a high global warming potential.
2. Reduce the emissions of refrigerants to the atmosphere arising from leakages in cooling plant.
3. Reduce the contribution to climate change from refrigerants with a high global warming potential.
4. Encourage the supply of heat from a system that minimises NOx emissions, and therefore reduces pollution of the local environment.
5. Reduce the potential for silt, heavy metals, chemicals or oil pollution to natural watercourses from surface water run-off from buildings and hard surfaces.
6. Ensure that external lighting is concentrated in the appropriate areas and that upward lighting is minimised, reducing unnecessary light pollution, energy consumption and nuisance to neighbouring properties.
7. Reduce the likelihood of noise from the new development affecting nearby noise sensitive buildings.

Martin Critchley
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15E South Street,
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PO9 1BU

16th December 2015

surecalc

CHARTERED SURVEYORS

ACCREDITED ENERGY ASSESSORS



SAP Calculations

Client: Ian Mc Grath C/O Martin Critchley Architect

Project: CfSH Level 4, 200, Seafront
Hayling Island, Hampshire

Contact: Mark Rogers MRICS CBuildE MCABE
Surecalc Ltd
surecalc@btinternet.com



CODE FOR SUSTAINABLE HOMES November 2010 - June 2014 Addendum

Page 2 of 2

Property Reference: sc120175

Issued on Date: 14.Dec.2015

Survey Reference: 001 With ASHP

Prop Type Ref: New Dwelling

Property: 200, Seafront, Hayling Island, Hampshire

SAP Rating: 82 B **CO2 Emissions (t/year):** 3.74 **DER:** 14.67 Pass **TER:** 23.93 **Percentage DER<TER:** 38.69 %
Environmental: 84 B **General Requirements Compliance:** Pass **DFEE:** 64.09 Pass **TFEE:** 68.24 **Percentage DFEE<TFEE:** 6.09 %

CfSH Results **Version:** November 2010 - June 2014 Addendum **ENE1 Credits:** 4.5 **ENE2 Credits:** 0.0 **ENE7 Credits:** 2 **CfSH Level:** 4

Surveyor: Mark Rogers MRICS CBuildE MCABE, Tel: 023 9225 4347

Surveyor ID: A320-0001

Address: 2, St Jacques Way, Denmead, Waterlooville, Hampshire, PO7 6LA

Client: Martin Critchley Architect, Martin Critchley Architect

Software Version: Elmhurst Energy Systems SAP2012 Calculator (Design System) version 3.03r09

SAP version: SAP 2012, **Regs Region:** England (Part L1A 2013), **Calculation Type:** New Build (As Designed)

ENE 1 calculation

Total floor area	302.11 m2
DER	14.67 kgCO2/yr/m2
TER	23.93 kgCO2/yr/m2
CO2 emissions offset from additional allowable electricity generation	0.00 kgCO2/yr/m2 (ZC7)
Residual CO2 emissions offset from biofuel CHP	0.00 kgCO2/yr/m2 (ZC5)
Total CO2 emissions offset from SAP Section 16 allowances	0.00 kgCO2/yr/m2
DER accounting for SAP Section 16 allowances	14.67 kgCO2/yr/m2
% reduction DER/TER	38.69 %
CfSH ENE1 credits achieved	4.5
CfSH ENE1 level achieved	4

ENE 2 calculation

Dwelling type	House, Detached
Fabric energy efficiency (F.E.E.)	64.09
CfSH ENE2 credits achieved	0.0
CfSH ENE1 and 2 overall level achieved	4

ENE 7 calculation

Standard case CO2 emissions

Total floor area	302.11 m2
DER	19.79 kgCO2/yr/m2
CO2 emissions from electrical appliances	9.02 kgCO2/yr/m2 (ZC2)
CO2 emissions from cooking	0.64 kgCO2/yr/m2 (ZC3)
Standard case total CO2 emissions	29.46 kgCO2/yr/m2 (ZC4)
Net Standard case CO2 emissions	29.46 kgCO2/yr/m2 (ZC8)

Actual case CO2 emissions

DER	14.70 kgCO2/yr/m2
CO2 emissions from electrical appliances	9.02 kgCO2/yr/m2 (ZC2)
CO2 emissions from cooking	0.64 kgCO2/yr/m2 (ZC3)
Actual case total CO2 emissions	24.37 kgCO2/yr/m2 (ZC4)
CO2 emissions from Biomass	0.00 kgCO2/yr/m2 (ZC5)
CO2 reduction from additional allowable electricity generation	0.00 kgCO2/yr/m2 (ZC7)
Net Actual case CO2 emissions	24.37 kgCO2/yr/m2 (ZC8)
% improvement in net actual/net standard case CO2 emissions	17 %
ENE7 credits achieved	2

C.S.H. Water Report

PROJECT DETAILS

Project Reference:

Client:

Property: Proposed New Dwelling
200, Seafront, Hayling Island

Local Authority:

Agent:

Assessor:

Surecalc

Address:

Accredited Energy Assessors

Contact:

Software:

G-Calc 2015 version 3.0.2

Prepared on:

14-Dec-15

RESULT SUMMARY

By following the Government's national calculation methodology for assessing water efficiency in new dwellings this 5 bed dwelling, as designed, achieves an internal potable water consumption of 102.8 litres per person per day.

Credits for Sustainable homes rating: 3

Table 1: The Water Calculator for New Dwellings

Installation Type	Unit of measure	Value	Use factor	Fixed use	litres/person/day
WC(single flush)	Flush volume (litres)	0	4.42	0.00	0
WC(dual flush)	Full flush vol.	0	1.46	0.00	0
	Part flush vol.	0	2.96	0.00	0
WC(multiple fittings)	Average effective Flush vol. (litres)	3.06	4.42	0.00	13.53
Taps(excl. Kitchen)	Flow rate (litres/min)	5	1.58	1.58	9.48
Bath (shower also present)	Capacity to overflow (litres)	149	0.11	0.00	16.39
Shower (bath also present)	Flow rate (litres/min)	9	4.37	0.00	39.33
Bath only	Capacity to overflow (litres)		0.50	0.00	
Shower only	Flow rate (litres/minute)		5.6	0.00	
Kitchen sink taps	Flow rate (litres/minute)	5	0.44	10.36	12.56
Washing Machine	litres/kg dry load	8.17	2.1	0.0	17.16
Dishwasher	litres/place setting	1.25	3.6	0.0	4.50
Waste disposal	litres/use	0	3.08	0.0	0
Water softener	litres/person/day	0	1.0	0.0	0
Total calculated use (litres/person/day)					112.95
Contribution from greywater (litres/person/day)					-
Contribution from rainwater (litres/person/day)					-
Normalisation factor					0.91
Total Water Consumption. Code for Sustainable Homes (litres/person/day)					102.8
External water use					5.0
Total Water Consumption. (36(1)) (litres/person/day)					107.8

Table 2: Consumption Calculator for multiple fittings for New Dwellings			
2.1: Taps (excluding kitchen sink taps)			
	Flow Rate (l/min)	Quantity (No.)	Total per fitting type
1	5	16	80
2			
3			
4			
Total (Sum of all Quantities)		16	
Total (Sum of all totals per fitting type)			80
Average Flow Rate (l/min)			5
Maximum Flow Rate (l/min)			5
Proportionate flow Rate (l/min)			3.5

Table 2: Consumption Calculator for multiple fittings for New Dwellings			
2.2: Baths			
	Capacity (litres)	Quantity (No.)	Total per fitting type
1	149	2	298
2			
3			
4			
Total (Sum of all Quantities)		2	
Total (Sum of all totals per fitting type)			298
Average Capacity to overflow (litres)			149
Maximum Capacity to overflow (litres)			149
Proportionate capacity to overflow (litres)			104.3

Table 2: Consumption Calculator for multiple fittings for New Dwellings			
2.3: Taps (kitchen/utility sink taps)			
	Flow Rate (l/min)	Quantity (No.)	Total per fitting type
1	5	3	15
2			
3			
4			
Total (Sum of all Quantities)		3	
Total (Sum of all totals per fitting type)			15
Average Flow Rate (l/min)			5
Maximum Flow Rate (l/min)			5
Proportionate flow Rate (l/min)			3.5

Table 2: Consumption Calculator for multiple fittings for New Dwellings			
2.6: Showers			
Shower Type	Flow rate (l/min)	Quantity (No.)	Total per fitting type
1	9	4	36
2			
3			
4			
Total (Sum of all Quantities)		4	
Total (Sum of all totals per fitting type)			36
Average Flow rate (l/min)			9
Maximum Flow rate (l/min)			9
Proportionate flow rate (l/min)			6.3

Table 2: Consumption Calculator for multiple fittings for New Dwellings			
2.7: WC's			
WC Type	Effective flushing volume (litres)	Quantity (No.)	Total per fitting type
1	3.062	7	21.43
2			
3			
4			
Total (Sum of all Quantities)		7	
Total (Sum of all totals per fitting type)			21.43
Average effective flushing volume (litres)			3.06

Summary of fitting types "As Designed"			
Type	Description	Flow rates, volumes etc.	Qty
Taps		5 litres/min	16
Baths		149 litres to overflow	2
Dishwashers		1.25 litres/place	1
Washing Machines		8.17 litres/kg	1
Showers		9 litres/min	4
WC's		4 / 2.6 litres flush vols.	7
Kitchen/Utility taps		5 litres/min	3

The lower section of this table is to be filled in by the builder prior to completion. The descriptions, values and quantities should represent the 'as built' specification. Please note the values above represent design values and should not be exceeded without prior consultation with the agent/designer ().
The completed table should be returned to the assessor: Surecalc.

Declaration of fitting types "As Built"			
Type	Make and Model	Flow rates, volumes etc.	Qty
Taps			
Baths			
Dishwashers			
Washing Machines			
Showers			
WC's			
Kitchen/Utility taps			

Project ref: - Proposed New Dwelling

The above declaration of fittings, values and quantities is a true reflection of those installed on this project.

I also confirm that the hot and cold water system will be designed to avoid the risk of microbial contamination in line with best practice.

Name: Signature: Date:

-----End of Report-----