

SAP/SBEM Information Summary Sheet

Client: BCM Builds

Project/site: Service Station, Hereford



Tel: 01159 875599

Email: enquiries@enconassociates.com

Build stage: As Designed ☒ As Built ☐ SBEM version 2010 ☐ 2013 ☐

Please note, all sections must be completed with as much detail as possible, items highlighted in **BLUE** relate to commercial assessments only.

This document may be submitted with your SAP/SBEM calculations for building control approval

Building Fabric - principal exposed elements

Element					As Built
					Changes to Construction U value (W/m ² K) Source of Information
Floor 1 Ground floor	150mm Insulation 100 Concrete	0.28	kingspan		
Floor 2 Exposed floor/Intermediate floor	Steel frame with Timber Joist				
External walls: Main walls	100mm Composite Panels	0.2	kingspan		
Walls adjacent stairwells and unheated spaces	90mm Timber frame with sound deadening Quilt, 12.5 Plaster Board				
Party walls/ Internal walls between apartments and other heated spaces	As Above				
Top floor timber frame walls	As Above				
Main Roof (Flat)	N/A				
Main Roof (Pitched)	30° 140mm Composite Panels	0.15	kingspan		

Balcony Roofs (if applicable)	N/A		
External balconies (if applicable)	N/A		
Apartment/Front Doors	Aluminium Double glazing	0.3	
Windows	"	0.3	

Building Services and Detailing			
Element		As Built	Source of Information
Primary heating	Air Handling Units (Air con)		
Secondary heating	AS ABOVE		
Access corridors & stairwells			
Community heating distribution losses			
Water heating	Individual over Sink & Toilets		
Space & water heating controls	COMBINE W WATER HEATERS		
Additional controls			
Electricity tariff (residential only)			
Air tightness			
Thermal bridging (approved construction details?)			
Domestic Lighting	LED PANELS & DOWN LIGHTS		
Mechanical Ventilation system?	LOCAL EXTRACT UNIT		
Commercial Lighting (please state wattage per room and lux values)	500 LUX SHOP RETAIL AREAS 300 LUX STAFF AREAS 250 LUX - STAIRWELL		

OR as a minimum type of lumen, LED etc.) Commercial Ventilation (If commercial please state flow rates, system type, intake and extract spaces and SFP's)	None			
Has ductwork been leakage tested? To what standard?	None			
Water usage	Assumed ≤ 125 litres/person/day (residential)			

- The SAP/SBEM calculation is based on information provided by the client. Items highlighted are assumptions, made at the "As Designed" stage, either due to lack of more specific information or to achieve compliance with the Building Regulations or the Domestic Services Compliance Guide.
- All assumptions must be cleared prior to producing the As Built reports and before the issue of any Energy Performance Certificates.
- Alternative materials can be used provided that they perform at least as well as those specified, if in any doubt please consult the Assessor. The client is responsible for ensuring that the materials are suitable for use.

Drawings:

Assessor: Nathan Kempson

Accreditation no: EES/020528 (residential)

STRO008052 (commercial)

CIBSE 194796 (commercial)

Date:

Initial completion of information

I confirm that the above details are correct to the best of my knowledge.

Signed:



Print name: Ben Crane

Date: 14 / 2 / 2019

The Water Calculator



<http://www.thewatercalculator.org.uk/>

Congratulations

Rotherwas

You are within your target maximum consumption of potable water (125 litres per person per day).

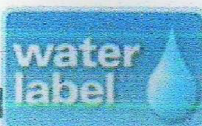
Total water consumption from your calculation **82.64** litres per person per day

Total including external water use
(17.K Compliance [Building Regulations Part G]) **87.64** litres per person per day

This calculator is intended to inform design choices by demonstrating the likely impact of specification changes on total water consumption. Results can only be used to demonstrate compliance with Building Regulations when the calculations have been verified by a Building Control Officer.

Calculation summary

Installation type	Unit of measure	Capacity / flow rate	Use factor	Fixed use	Litres / person / day
WCs (single flush)	Flush volume (litres)		4.42	0	20.6
WCs (dual flush)	Average effective flushing volume (litres)	4.66			
Taps (excl. kitchen/utility room)	Flow rate (litres / minute)	3.7	1.58	1.58	7.43
Bath only	Capacity to overflow (litres)		0.5	0	
Shower only	Flow rate (litres / minute)	5.1	5.6	0	28.56
Kitchen/utility room sink taps	Flow rate (litres / minute)	5	0.44	10.36	12.56
Washing machine	Litres / kg dry load	8.17	2.1	0	17.16
Dishwasher	Litres / place setting	1.25	3.6	0	4.5
Waste disposal unit	Litres / use	<input type="checkbox"/>	3.08	0	
Water softener	Litres / person / day	<input type="checkbox"/>	1	0	
Contribution from Grey Water					undefined
Contribution from Rain Water					undefined
Normalisation factor					$\Sigma \times 0.91$



waterwise

anglianwater

calculator & site development by Seedypee