

Main building activity areas	Description of activity area	Activity area present in building?	Net Floor Area (m ²)
Retail - sales areas for display of bulky items	A retail sales/display area trading predominantly in bulky items, e.g. furniture, floor coverings, cycles, prams, large domestic appliances or other bulky goods, or trading on a wholesale self-selection basis.	Yes	1,000
Retail - sales areas for display of non bulky items and/or customer service area.	A general sales/display areas in department stores, supermarkets, shops and/or customer service waiting and/or collection areas e.g. in banks, post office, bookmakers etc.	Yes	2300
Retail - concourse/shopping mall	The central (shared) area within a shopping centre used for access by shoppers (typically a covered area containing one or more of benches, cafes, escalators etc.)	Yes	
Retail - Staff office area and staffroom	Staff office space and staffroom, often located in 'back of house' areas.	Yes	
Retail - Staff canteen dining area	Seated areas in a staff canteen that accompany a food preparation areas where food and drink is consumed by staff on the premises.	No	
Retail - Goods-in and storage area	Internal areas for receiving and storing goods.	Yes	
Retail - Workshop	A workshop / vehicle servicing area within a car showroom or general workshop in other type of retail development.	No	

WC component - all activity areas	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)
WC - male (no urinals installed)	Effective flush volume (Litres)	3.50	0.85	1.00	1.05
WC - female	Effective flush volume (Litres)	3.50	0.85	1.00	1.03

[illegible]

Has, or will, the greywater system be specified and installed in compliance with BS8525-1:2010 Greywater Systems - Part 1 Code of Practice	No
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	Greywater yield (L/person/day)
Total	

Has or will the rainwater system be specified and installed in compliance with BS EN 16941-1:2018 Rainwater Harvesting Systems - Code of practice	No
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	How has the storage capacity for the proposed system been calculated?
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Rainwater yield if basic approach:

Collection area (m2)	Rainfall (average mm/yr)	Hydraulic filter efficiency (%)	Yield co-efficient (%)	Annual rainwater yield (Litres)	Rainwater yield (L/person/day)

Rainwater yield if detailed:

Daily rainfall collection (litres)	Rainwater yield (L/person/day)

Non potable water demand - building components

				Greywater and/or rainwater yield (L/person/day)
Total				
Component	Greywater and/or rainwater utilised for component	Proportion of components using greywater and/or rainwater yield (%)	Maximum permissible demand (L/person/day)	
Total				Demand met by yield (L/person/day)
Other permissible components				
				Maximum permissible demand (L/day)
				Demand met by yield (L/person/day)
Total				
				Greywater and/or rainwater demand met by yield (L/person/day)
Total				

Water consumption calculation results

	Litres/person/day	m ³ /person/yr
Water consumption - modelled baseline performance benchmark (excludes fixed uses)	6.77	2.45
Microcomponent water consumption - modelled performance (excludes fixed uses)	3.88	1.40
Modelled water demand met via greywater and rainwater sources	0.00	0.00
If greywater/rainwater systems specified has the minimum % efficiency improvement for component specifications been met	System not specified	
Net modelled water consumption (excludes fixed uses)	3.88	1.40
Percentage improvement	42.70%	
Total Wat 01 BREEAM credits achieved	3 credits	
Total Wat 01 BREEAM Exemplary credits achieved	Exemplary level not achieved	
Key performance indicator - use of freshwater resource (includes fixed uses)	3.91	1.41

Building type	Description of building type	Default annual days/operation	Default daily hours of operation
Retail - Shopping centre/complex	TCP Classification A1 - A2: mixture of shops, professional services.	362	9
	Does the retail development contain sanitary facilities for use by visiting customers?		Yes
		Default daily occupancy visiting customers	9310
		Default daily occupancy staff	149

Main building activity areas	Description of activity area	Activity area present in building?	Net Floor Area (m ²)
Retail - sales areas for display of bulky items	A retail sales/display area trading predominantly in bulky items, e.g. furniture, floor coverings, cycles, prams, large domestic appliances or other bulky goods, or trading on a wholesale self-selection basis.	Yes	1,000
Retail - sales areas for display of non bulky items and/or customer service area.	A general sales/display areas in department stores, supermarkets, shops and/or customer service waiting and/or collection areas e.g. in banks, post office, bookmakers etc.	Yes	2300
> Retail - concourse/shopping mall	The central (shared) area within a shopping centre used for access by shoppers (typically a covered area containing one or more of benches, cafes, escalators etc.)	Yes	
> Retail - Staff office area and staffroom	Staff office space and staffroom, often located in 'back of house' areas.	Yes	
Retail - Staff canteen dining area	Seated areas in a staff canteen that accompany a food preparation areas where food and drink is consumed by staff on the premises.	No	
> Retail - Goods-in and storage area	Internal areas for receiving and storing goods.	Yes	
Retail - Workshop	A workshop / vehicle servicing area within a car showroom or general workshop in other type of retail development.	No	

Water consumption - building microcomponent

WC component - all activity areas	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)
WC - male (no urinals installed)	Effective flush volume (Litres)	3.00	0.85	1.00	0.90
WC - female	Effective flush volume (Litres)	3.00	0.85	1.00	1.65

Urinal component - all activity areas	units	Specification	No. of cisterns	Flushing frequency (flushes/hour)	Consumption (L/person/day)

	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)
Taps components (personal hygiene) - all activity areas					
Wash hand basin taps	Flow rate (litres/min)	3.00	0.85	0.25	0.43
Shower use	Flow rate (litres/min)	3.50	0.000	5.60	0.01
Fixed use - vessel filling	Litres/person/day	-	-	-	0.02
Tap components (cleaning) - staff kitchenette					
Kitchen taps - kitchenette	Flow rate (litres/min)	5.00	0.02	0.67	0.04
Dishwasher	Litres/cycle	10.00	0.0006	1.00	0.01
Tap components (cleaning and food preparation) - staff canteen food preparation area					

Total Microcomponent Consumption (L/person/day) 3.18

Non potable water yield - greywater system

Has, or will, the greywater system be specified and installed in compliance with BS8525-1:2010 Greywater Systems - Part 1 Code of Practice				Yes
Greywater source (building components)	Greywater collected	Proportion of components collected from (%)	Greywater yield (L/person/day)	
Wash hand basin taps	Yes	100%	0.43	
Showers	No			
Kitchen taps - kitchenette	No			
Dishwasher - staff kitchenette	No			
Bath			0.00	
Washing machine			0.00	
Greywater source (other components)	Typical greywater yield (litres)	Frequency of yield (days)	Greywater yield (litres/day)	Greywater yield (L/person/day)
Other source of greywater				0.00
Total Greywater yield (L/person/day)				0.43

Non potable water yield - rainwater system

Has, or will, the rainwater system be specified and installed in compliance with BS EN 16941-1:2018 Rainwater Harvesting Systems - Code of practice		Yes
How has the storage capacity for the proposed system been calculated?		BS EN 16941-1 'basic approach'

Rainwater yield if basic approach:

Collection area (m2)	Rainfall (average mm/yr)	Hydraulic filter efficiency (%)	Yield co-efficient (%)	Annual rainwater yield (Litres)	Rainwater yield (L/person/day)
3,300	860	80.00%	90.00%	2043360	0.59

Rainwater yield if detailed:

Daily rainfall collection (litres)	Rainwater yield (L/person/day)

Non potable water demand - building components

				Greywater and/or rainwater yield (L/person/day)
			Total	1.02
Component	Greywater and/or rainwater utilised for component	Proportion of components using greywater and/or rainwater yield (%)		Maximum permissible demand (L/person/day)
WC flushing	Yes	31%		0.79
			Total	Demand met by yield (L/person/day) 0.79
Other permissible components				
Are there other permissible components present which demand greywater and/or rainwater yield?				No
				Maximum permissible demand (L/day)
				2202
Proportion of maximum permissible demand utilised by other permissible components (%)				Demand met by yield (L/person/day)
			Total	0.00
			Total	Greywater and/or rainwater demand met by yield (L/person/day) 0.79

Water consumption calculation results

	Litres/person/day	m ³ /person/yr
Water consumption - modelled baseline performance benchmark (excludes fixed uses)	6.77	2.45
Microcomponent water consumption - modelled performance (excludes fixed uses)	3.15	1.14
Modelled water demand met via greywater and rainwater sources	0.79	0.29
If greywater/rainwater systems specified has the minimum % efficiency improvement for component specifications been met	Yes	
Net modelled water consumption (excludes fixed uses)	2.36	0.86
Percentage improvement	65.12%	
Total Wat 01 BREEAM credits achieved	5 credits	
Total Wat 01 BREEAM Exemplary credits achieved	1 innovation credit achieved	
Key performance indicator - use of freshwater resource (includes fixed uses)	2.39	0.86

Main building activity areas	Description of activity area	Activity area present in building?	Net Floor Area (m ²)
Retail - sales areas for display of bulky items	A retail sales/display area trading predominantly in bulky items, e.g. furniture, floor coverings, cycles, prams, large domestic appliances or other bulky goods, or trading on a wholesale self-selection basis.	Yes	1,000
Retail - sales areas for display of non bulky items and/or customer service area.	A general sales/display areas in department stores, supermarkets, shops and/or customer service waiting and/or collection areas e.g. in banks, post office, bookmakers etc.	Yes	2300
Retail - concourse/shopping mall	The central (shared) area within a shopping centre used for access by shoppers (typically a covered area containing one or more of benches, cafes, escalators etc.)	Yes	0
Retail - Staff office area and staffroom	Staff office space and staffroom, often located in 'back of house' areas.	Yes	0
Retail - Staff canteen dining area	Seated areas in a staff canteen that accompany a food preparation areas where food and drink is consumed by staff on the premises.	No	
Retail - Goods-in and storage area	Internal areas for receiving and storing goods.	Yes	0
Retail - Workshop	A workshop / vehicle servicing area within a car showroom or general workshop in other type of retail development.	No	

WC component - all activity areas	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)
WC - male (no urinals installed)	Effective flush volume (Litres)	6.00	0.85	1.00	1.80
WC - female	Effective flush volume (Litres)	6.00	0.85	1.00	2.20

[illegible]

	Has, or will, the greywater system be specified and installed in compliance with BS8525-1:2010 Greywater Systems - Part 1 Code of Practice	No
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	Has, or will, the rainwater system be specified and installed in compliance with BS EN 16041-1:2018 Rainwater Harvesting Systems - Code of practice	No
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	How has the storage capacity for the proposed system been calculated?
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Rainwater yield if basic approach:

Collection area (m2)	Rainfall (average mm/yr)	Hydraulic filter efficiency (%)	Yield co-efficient (%)	Annual rainwater yield (Litres)	Rainwater yield (L/person/day)

Rainwater yield if detailed:

Daily rainfall collection (litres)	Rainwater yield (L/person/day)

Non potable water demand - building components

				Greywater and/or rainwater yield (L/person/day)
Total				
Component	Greywater and/or rainwater utilised for component	Proportion of components using greywater and/or rainwater yield (%)	Maximum permissible demand (L/person/day)	
Total				Demand met by yield (L/person/day)
Other permissible components				
				Maximum permissible demand (L/day)
				Demand met by yield (L/person/day)
Total				
				Greywater and/or rainwater demand met by yield (L/person/day)
Total				

Water consumption calculation results

	Litres/person/day	m ³ /person/yr
Water consumption - modelled baseline performance benchmark (excludes fixed uses)	6.77	2.45
Microcomponent water consumption - modelled performance (excludes fixed uses)	6.77	2.45
Modelled water demand met via greywater and rainwater sources	0.00	0.00
If greywater/rainwater systems specified has the minimum % efficiency improvement for component specifications been met	System not specified	
Net modelled water consumption (excludes fixed uses)	6.77	2.45
Percentage improvement	0.00%	
Total Wat 01 BREEAM credits achieved	0 credits	
Total Wat 01 BREEAM Exemplary credits achieved	Exemplary level not achieved	
Key performance indicator - use of freshwater resource (includes fixed uses)	6.80	2.46

Main building activity areas	Description of activity area	Activity area present in building?	Net Floor Area (m ²)
Office - Office areas	Cellular or open plan office space, including staff kitchen where present/adjacent and reception areas. Exclude meeting rooms, visitor waiting or circulation areas.	Yes	74
Office - Small workshop / laboratory space	Small scale workshop or category 1 laboratory area	No	
Office - Staff canteen dining area	Seated dining areas that accompany a permanently staffed kitchen preparing food for consumption on the premises (excludes small un-staffed kitchen's used by office staff to re-heat food, make tea etc.)	No	
Office - Fitness suite/gym (with changing facility and showers)	A fitness suite or gym that is part of the office building/development and used by the building's employees only. The gym will have its own changing facility with showers.	Yes	

Urinal component - all activity areas	units	Specification	No. of cisterns	Flushing frequency (flushes/hour)	Consumption (L/person/day)
	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)
	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)

	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)
Taps components (personal hygiene) - all activity areas					
Wash hand basin taps	Flow rate (litres/min)	5.00	4.00	0.25	3.39
Shower use	Flow rate (litres/min)	6.00	0.154	5.60	5.17
Fixed use - vessel filling	Litres/person/day	-	-	-	1.63
Tap components (cleaning) - staff kitchenette					
Kitchen taps - kitchenette	Flow rate (litres/min)	6.00	1.00	0.67	2.72
Dishwasher	Litres/cycle	12.00	0.04	1.00	0.48
Tap components (cleaning and food preparation) - staff canteen food preparation area					

Has, or will, the rainwater system be specified and installed in compliance with BS EN 16941-1:2018 Rainwater Harvesting Systems - Code of practice	Please select
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How has the storage capacity for the proposed system been calculated?

Rainwater yield if basic approach:

Collection area (m2)	Rainfall (average mm/yr)	Hydraulic filter efficiency (%)	Yield co-efficient (%)	Annual rainwater yield (Litres)	Rainwater yield (L/person/day)

Rainwater yield if detailed:

Daily rainfall collection (litres)	Rainwater yield (L/person/day)

Non Potable Water Demand - Building Components

				Greywater and/or rainwater yield (L/person/day)
Total				
Component	Greywater and/or rainwater utilised for component	Proportion of components using greywater and/or rainwater yield (%)	Maximum permissible demand (L/person/day)	
Total				Demand met by yield (L/person/day)
Other permissible components				
				Maximum permissible demand (L/day)
				Demand met by yield (L/person/day)
Total				
				Greywater and/or rainwater demand met by yield (L/person/day)
Total				

Water consumption calculation results

	Litres/person/day	m ³ /person/yr
Water consumption - modelled baseline performance benchmark (excludes fixed uses)	46.33	11.72
Microcomponent water consumption - modelled performance (excludes fixed uses)	26.76	6.77
Modelled water demand met via greywater and rainwater sources	0.00	0.00
If greywater/rainwater systems specified has the minimum % efficiency improvement for component specifications been met	Not applicable	
Net modelled water consumption (excludes fixed uses)	26.76	6.77
Percentage improvement	42.24%	
Total Wat 01 BREEAM credits achieved	3 credits	
Total Wat 01 BREEAM Exemplary credits achieved	Exemplary level not achieved	
Key performance indicator - use of freshwater resource (includes fixed uses)	28.39	7.18

Main building activity areas	Description of activity area	Activity area present in building?	Net Floor Area (m ²)
Office - Office areas	Cellular or open plan office space, including staff kitchen where present/adjacent and reception areas. Exclude meeting rooms, visitor waiting or circulation areas.	Yes	74
Office - Small workshop / laboratory space	Small scale workshop or category 1 laboratory area	No	
Office - Staff canteen dining area	Seated dining areas that accompany a permanently staffed kitchen preparing food for consumption on the premises (excludes small un-staffed kitchen's used by office staff to re-heat food, make tea etc.)	No	
Office - Fitness suite/gym (with changing facility and showers)	A fitness suite or gym that is part of the office building/development and used by the building's employees only. The gym will have its own changing facility with showers.	Yes	

WC component - all activity areas	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)
WC - male (no urinals installed)	Effective flush volume (Litres)	3.00	4.00	1.00	6.00
WC - female	Effective flush volume (Litres)	3.00	4.00	1.00	6.00

Urinal component - all activity areas	units	Specification	No. of cisterns	Flushing frequency (flushes/hour)	Consumption (L/person/day)
	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)
	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)

	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)
Taps components (personal hygiene) - all activity areas					
Wash hand basin taps	Flow rate (litres/min)	3.00	4.00	0.25	2.03
Shower use	Flow rate (litres/min)	3.50	0.154	5.60	3.02
Fixed use - vessel filling	Litres/person/day	-	-	-	1.63
Tap components (cleaning) - staff kitchenette					
Kitchen taps - kitchenette	Flow rate (litres/min)	5.00	1.00	0.67	2.27
Dishwasher	Litres/cycle	10.00	0.04	1.00	0.40
Tap components (cleaning and food preparation) - staff canteen food preparation area					

	Microcomponent consumption (L/person/day)
Total	21.35

Has, or will, the greywater system be specified and installed in compliance with BS8525-1:2010 Greywater Systems - Part 1 Code of Practice	No
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Greywater source (building components)		Greywater collected	Proportion of components collected from (%)	Greywater yield (L/person/day)
Greywater source (other components)	Typical greywater yield (litres)	Frequency of yield (days)	Greywater yield (litres/day)	Greywater yield (L/person/day)

	Greywater yield (L/person/day)
Total	0.00

Has, or will, the rainwater system be specified and installed in compliance with BS EN 16941-1:2018 Rainwater Harvesting Systems - Code of practice	Yes
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How has the storage capacity for the proposed system been calculated?	BS EN 16941-1 'basic approach'
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Rainwater yield if basic approach:

Collection area (m2)	Rainfall (average mm/yr)	Hydraulic filter efficiency (%)	Yield co-efficient (%)	Annual rainwater yield (Litres)	Rainwater yield (L/person/day)
74	860	80.00%	90.00%	45821	15.28

Rainwater yield if detailed:

Daily rainfall collection (litres)	Rainwater yield (L/person/day)

Non Potable Water Demand - Building Components

	Greywater and/or rainwater yield (L/person/day)
Total	15.28

Component	Greywater and/or rainwater utilised for component	Proportion of components using greywater and/or rainwater yield (%)	Maximum permissible demand (L/person/day)
WC flushing	Yes	30%	3.60

	Demand met by yield (L/person/day)
Total	3.60

Other permissible components

Are there other permissible components present which demand greywater and/or rainwater yield?	No
	Maximum permissible demand (l/day)
	96
Proportion of maximum permissible demand utilised by other permissible components (%)	

	Demand met by yield (L/person/day)
Total	0.00

	Greywater and/or rainwater demand met by yield (L/person/day)
Total	3.60

Water consumption calculation results

	Litres/person/day	m³/person/yr
Water consumption - modelled baseline performance benchmark (excludes fixed uses)	46.33	11.72
Microcomponent water consumption - modelled performance (excludes fixed uses)	19.72	4.99
Modelled water demand met via greywater and rainwater sources	3.60	0.91
If greywater/rainwater systems specified has the minimum % efficiency improvement for component specifications been met	Yes	
Net modelled water consumption (excludes fixed uses)	16.12	4.08
Percentage improvement	65.21%	
Total Wat 01 BREEAM credits achieved	5 credits	
Total Wat 01 BREEAM Exemplary credits achieved	1 innovation credit achieved	
Key performance indicator - use of freshwater resource (includes fixed uses)	17.75	4.49

Main building activity areas	Description of activity area	Activity area present in building?	Net Floor Area (m ²)
Office - Office areas	Cellular or open plan office space, including staff kitchen where present/adjacent and reception areas. Exclude meeting rooms, visitor waiting or circulation areas.	Yes	74
Office - Small workshop / laboratory space	Small scale workshop or category 1 laboratory area	No	
Office - Staff canteen dining area	Seated dining areas that accompany a permanently staffed kitchen preparing food for consumption on the premises (excludes small un-staffed kitchen's used by office staff to re-heat food, make tea etc.)	No	
Office - Fitness suite/gym (with changing facility and showers)	A fitness suite or gym that is part of the office building/development and used by the building's employees only. The gym will have its own changing facility with showers.	Yes	

Urinal component - all activity areas	units	Specification	No. of cisterns	Flushing frequency (flushes/hour)	Consumption (L/person/day)
	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)
	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)

	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)
Taps, components (personal hygiene) - all activity areas					
Wash hand basin taps	Flow rate (litres/min)	10.00	4.00	0.25	6.77
Shower use	Flow rate (litres/min)	12.00	0.154	5.60	10.35
Fixed use - vessel filling	Litres/person/day	-	-	-	1.63
Tap components (cleaning) - staff kitchenette					
Kitchen taps - kitchenette	Flow rate (litres/min)	10.00	1.00	0.67	4.54
Dishwasher	Litres/cycle	17.00	0.04	1.00	0.68
Tap components (cleaning and food preparation) - staff canteen food preparation area					

Greywater source (building components)		Greywater collected	Proportion of components collected from (%)	Greywater yield (L/person/day)
Greywater source (other components)	Typical greywater yield (litres)	Frequency of yield (days)	Greywater yield (litres/day)	Greywater yield (L/person/day)

Collection area (m2)	Rainfall (average mm/yr)	Hydraulic filter efficiency (%)	Yield co-efficient (%)	Annual rainwater yield (Litres)	Rainwater yield (l/person/day)
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					<i>Rainwater yield if detailed:</i>
					Rainwater yield (L/person/day)
					Daily rainfall collection (litres)

Non Potable Water Demand - Building Components

				Greywater and/or rainwater yield (L/person/day)
Total				
Component	Greywater and/or rainwater utilised for component	Proportion of components using greywater and/or rainwater yield (%)	Maximum permissible demand (L/person/day)	
Total				Demand met by yield (L/person/day)
<i>Other permissible components</i>				
				Maximum permissible demand (L/day)
				Demand met by yield (L/person/day)
Total				
				Greywater and/or rainwater demand met by yield (L/person/day)
Total				

Water consumption calculation results

	Litres/person/day	m ³ /person/yr
Water consumption - modelled baseline performance benchmark (excludes fixed uses)	46.33	11.72
Microcomponent water consumption - modelled performance (excludes fixed uses)	46.33	11.72
Modelled water demand met via greywater and rainwater sources	0.00	0.00
If greywater/rainwater systems specified has the minimum % efficiency improvement for component specifications been met	FALSE	
Net modelled water consumption (excludes fixed uses)	46.33	11.72
Percentage improvement	0.00%	
Total Wat 01 BREEAM credits achieved	0 credits	
Total Wat 01 BREEAM Exemplary credits achieved	Exemplary level not achieved	
Key performance indicator - use of freshwater resource (includes fixed uses)	47.96	12.14

Building type	Description of building type	Default building occupancy	Default annual days/operation	Default daily hours of operation
Education - pre-school or primary school	TCP Classification D1: non-residential pre-school and primary schools.	144	195	10

Main building activity areas	Description of activity area	Activity area present in building?	Net Floor Area (m ²)
Education - Classroom areas	Include basic classroom areas only. Exclude halls, specialist practical classrooms, i.e. ICT, and learning resource/library areas.	Yes	72
Education - Staff office and administration areas	Cellular or open plan office space, including staff rooms and staff kitchen where present/adjacent and reception areas (including library reception desk areas if present). Excludes meeting rooms, visitor waiting or circulation areas and other such spaces not permanently occupied.	Yes	50
Education - Common room	Student common room.	Yes	978
Education - dining area	Seated dining areas that accompany a permanently staffed kitchen preparing food for consumption on the premises (excludes small un-staffed kitchen's used by staff to re-heat food, make tea etc.)	No	
Education - Changing facilities with showers	Changing facility with showers to be used by pupils	Yes	

Water consumption - building microcomponent

WC component - all activity areas	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)
WC - male (no urinals installed)	Effective flush volume (Litres)	3.75	2.10	1.00	3.94
WC - female	Effective flush volume (Litres)	3.75	2.10	1.00	3.94

Urinal component - all activity areas	units	Specification	No. of cisterns	Flushing frequency (flushes/hour)	Consumption (L/person/day)

	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)

	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)

	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)
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Taps components (personal hygiene) - all activity areas					
Wash hand basin taps	Flow rate (litres/min)	5.00	2.10	0.25	1.78
Shower use	Flow rate (litres/min)	6.00	0.400	1.40	3.36
Fixed use - vessel filling	Litres/person/day	-	-	-	2.10

Tap components (cleaning) - staff kitchenette					
Kitchen taps - kitchenette	Flow rate (litres/min)	6.00	0.0500	0.67	0.14
Dishwasher	Litres/cycle	12.00	0.0019	1.00	0.02

Tap components (cleaning and food preparation) - school canteen food preparation area					
Fixed use - food preparation		-		-	0.00
Fixed use - kitchen cleaning		-		-	0.00

Microcomponent consumption (L/person/day)
Total 23.13

Non potable water yield - greywater system

Has, or will, the greywater system be specified and installed in compliance with BS8525-1:2010 Greywater Systems - Part 1 Code of Practice	No
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Greywater source (building components)	Greywater Collected	Proportion of components collected from (%)	Greywater yield (L/person/day)
Greywater source (other components)	Typical greywater yield (litres)	Frequency of yield (days)	Greywater yield (litres/day)

Greywater yield (L/person/day)
Total 0.00

Non potable water yield - rainwater system

Has, or will, the rainwater system be specified and installed in compliance with BS EN 16941-1:2018 Rainwater Harvesting Systems - Code of practice	Yes
How has the storage capacity for the proposed system been calculated?	BS EN 16941-1 'basic approach'

Rainwater yield if basic approach:

Collection area (m2)	Rainfall (average mm/yr)	Hydraulic filter efficiency (%)	Yield co-efficient (%)	Annual rainwater yield (Litres)	Rainwater yield (L/person/day)
1100	861	70.00%	90.00%	596673	11.38

Rainwater yield if detailed:

Daily rainfall collection (litres)	Rainwater yield (L/person/day)

Non potable water demand - building components

			Greywater and/or rainwater yield (L/person/day)
Total			11.38
Component	Greywater and/or rainwater utilised for component	Proportion of components using greywater and/or rainwater yield (%)	Maximum permissible demand (L/person/day)
WC flushing	Yes	31%	2.44
Total			Demand met by yield (L/person/day)
			2.44
Other permissible components			
Are there other permissible components present which demand greywater and/or rainwater yield?			No
			Maximum permissible demand (L/day)
			1284
Proportion of maximum permissible demand utilised by other permissible components (%)			Demand met by yield (L/person/day)
Total			0.00
			Greywater and/or rainwater demand met by yield (L/person/day)
Total			2.44

Water consumption calculation results

	Litres/person/day	m ³ /person/yr
Water consumption - modelled baseline performance benchmark (excludes fixed uses)	30.99	6.04
Microcomponent Water consumption - modelled performance (excludes fixed uses)	21.03	4.10
Modelled water demand met via greywater and rainwater sources	2.44	0.48
If greywater/rainwater systems specified has the minimum % efficiency improvement for component specifications been met	Not applicable	
Net modelled water consumption (excludes fixed uses)	20.24	3.95
Percentage improvement	40.02%	
Total Wat 01 BREEAM credits achieved	3 credits	
Total Wat 01 BREEAM Exemplary credits achieved	Exemplary level not achieved	
Key performance indicator - use of freshwater resource (includes fixed uses)	20.68	4.03

Main building activity areas	Description of activity area	Activity area present in building?	Net Floor Area (m ²)
Education - Classroom areas	Include basic classroom areas only. Exclude halls, specialist practical classrooms, i.e. ICT, and learning resource/library areas.	Yes	72
Education - Staff office and administration areas	Cellular or open plan office space, including staff rooms and staff kitchen where present/adjacent and reception areas (including library reception desk areas if present). Excludes meeting rooms, visitor waiting or circulation areas and other such spaces not permanently occupied.	Yes	50
Education - Common room	Student common room.	Yes	978
Education - dining area	Seated dining areas that accompany a permanently staffed kitchen preparing food for consumption on the premises (excludes small un-staffed kitchen's used by staff to re-heat food, make tea etc.)	No	
Education - Changing facilities with showers	Changing facility with showers to be used by pupils	Yes	

Non potable water yield - rainwater system

Has, or will, the rainwater system be specified and installed in compliance with BS EN 16941-1:2018 Rainwater Harvesting Systems - Code of practice	Yes
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How has the storage capacity for the proposed system been calculated?	BS EN 16941-1 "basic approach"
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Rainwater yield if basic approach:

Collection area (m2)	Rainfall (average mm/yr)	Hydraulic filter efficiency (%)	Yield co-efficient (%)	Annual rainwater yield (Litres)	Rainwater yield (L/person/day)
1100	860	80.00%	90.00%	681120	12.99

Rainwater yield if detailed:

Daily rainfall collection (litres)	Rainwater yield (L/person/day)

Non potable water demand - building components

Greywater and/or rainwater yield (L/person/day)
Total 12.99

Component	Greywater and/or rainwater utilised for component	Proportion of components using greywater and/or rainwater yield (%)	Maximum permissible demand (L/person/day)
WC flushing	Yes	100%	6.30
			Demand met by yield (L/person/day)
			Total 6.30

Other permissible components

Are there other permissible components present which demand greywater and/or rainwater yield?	No
	Maximum permissible demand (L/day)
	961
Proportion of maximum permissible demand utilised by other permissible components (%)	
	Demand met by yield (L/person/day)
	Total 0.00

Greywater and/or rainwater demand met by yield (L/person/day)
Total 6.30

Water consumption calculation results

	Litres/person/day	m ³ /person/yr
Water consumption - modelled baseline performance benchmark (excludes fixed uses)	30.99	6.04
Microcomponent Water consumption - modelled performance (excludes fixed uses)	17.31	3.38
Modelled water demand met via greywater and rainwater sources	6.30	1.23
If greywater/rainwater systems specified has the minimum % efficiency improvement for component specifications been met	Yes	
Net modelled water consumption (excludes fixed uses)	11.01	2.15
Percentage improvement	64.45%	
Total Wat 01 BREEAM credits achieved	5 credits	
Total Wat 01 BREEAM Exemplary credits achieved	Exemplary level not achieved	
Key performance indicator - use of freshwater resource (includes fixed uses)	13.11	2.56

Building type	Description of building type	Default building occupancy	Default annual days/operation	Default daily hours of operation
Education - pre-school or primary school	TCP Classification D1: non-residential pre-school and primary schools.	144	195	10

Main building activity areas	Description of activity area	Activity area present in building?	Net Floor Area (m ²)
Education - Classroom areas	Include basic classroom areas only. Exclude halls, specialist practical classrooms, i.e. ICT, and learning resource/library areas.	Yes	72
Education - Staff office and administration areas	Cellular or open plan office space, including staff rooms and staff kitchen where present/adjacent and reception areas (including library reception desk areas if present). Excludes meeting rooms, visitor waiting or circulation areas and other such spaces not permanently occupied.	Yes	50
Education - Common room	Student common room.	Yes	978
Education - dining area	Seated dining areas that accompany a permanently staffed kitchen preparing food for consumption on the premises (excludes small un-staffed kitchen's used by staff to re-heat food, make tea etc.)	No	
Education - Changing facilities with showers	Changing facility with showers to be used by pupils	Yes	

Water consumption - building microcomponent

WC component - all activity areas	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)
WC - male (no urinals installed)	Effective flush volume (Litres)	6.00	2.10	1.00	6.30
WC - female	Effective flush volume (Litres)	6.00	2.10	1.00	6.30

Urinal component - all activity areas	units	Specification	No. of cisterns	Flushing frequency (flushes/hour)	Consumption (L/person/day)

	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)

	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)

	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)
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Taps components (personal hygiene) - all activity areas					
Wash hand basin taps	Flow rate (litres/min)	10.00	2.10	0.25	3.55
Shower use	Flow rate (litres/min)	12.00	0.400	1.40	6.72
Fixed use - vessel filling	Litres/person/day	-	-	-	2.10

Tap components (cleaning) - staff kitchenette					
Kitchen taps - kitchenette	Flow rate (litres/min)	10.00	0.0500	0.67	0.23
Dishwasher	Litres/cycle	17.00	0.0019	1.00	0.03

Tap components (cleaning and food preparation) - school canteen food preparation area					
Fixed use - food preparation		-		-	0.00
Fixed use - kitchen cleaning		-		-	0.00

Microcomponent consumption (L/person/day)
Total 33.09

Non potable water yield - greywater system

Has, or will, the greywater system be specified and installed in compliance with BS8525-1:2010 Greywater Systems - Part 1 Code of Practice	No
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Greywater source (building components)	Greywater Collected	Proportion of components collected from (%)	Greywater yield (L/person/day)
Greywater source (other components)	Typical greywater yield (litres)	Frequency of yield (days)	Greywater yield (litres/day)

Greywater yield (L/person/day)
Total 0.00

Non potable water yield - rainwater system

Has, or will, the rainwater system be specified and installed in compliance with BS EN 16941-1:2018 Rainwater Harvesting Systems - Code of practice	No
How has the storage capacity for the proposed system been calculated?	

Rainwater yield if basic approach:

Collection area (m2)	Rainfall (average mm/yr)	Hydraulic filter efficiency (%)	Yield co-efficient (%)	Annual rainwater yield (Litres)	Rainwater yield (L/person/day)

Rainwater yield if detailed:

Daily rainfall collection (litres)	Rainwater yield (L/person/day)

Non potable water demand - building components

			Greywater and/or rainwater yield (L/person/day)
Total			
Component	Greywater and/or rainwater utilised for component	Proportion of components using greywater and/or rainwater yield (%)	Maximum permissible demand (L/person/day)
			Demand met by yield (L/person/day)
Total			
Other permissible components			
			Maximum permissible demand (L/day)
			Demand met by yield (L/person/day)
Total			
			Greywater and/or rainwater demand met by yield (L/person/day)
Total			

Water consumption calculation results

	Litres/person/day	m ³ /person/yr
Water consumption - modelled baseline performance benchmark (excludes fixed uses)	30.99	6.04
Microcomponent Water consumption - modelled performance (excludes fixed uses)	30.99	6.04
Modelled water demand met via greywater and rainwater sources	0.00	0.00
If greywater/rainwater systems specified has the minimum % efficiency improvement for component specifications been met	System not specified	
Net modelled water consumption (excludes fixed uses)	30.99	6.04
Percentage improvement	0.00%	
Total Wat 01 BREEAM credits achieved	0 credits	
Total Wat 01 BREEAM Exemplary credits achieved	Exemplary level not achieved	
Key performance indicator - use of freshwater resource (includes fixed uses)	33.09	6.45

Building type	Description of building type	Default annual days/operation	Default daily hours of operation
Retail - Supermarket	TCP Classification A1 Shops: supermarket	362	13
Does the retail development contain sanitary facilities for use by visiting customers?			Yes
Default daily occupancy visiting customers			7578
Default daily occupancy staff			84

Main building activity areas	Description of activity area	Activity area present in building?	Net Floor Area (m ²)
Retail - sales areas for display of bulky items	A retail sales/display area trading predominantly in bulky items, e.g. furniture, floor coverings, cycles, prams, large domestic appliances or other bulky goods, or trading on a wholesale self-selection basis.	Yes	620
Retail - sales areas for display of non bulky items and/or customer service area.	A general sales/display areas in department stores, supermarkets, shops and/or customer service waiting and/or collection areas e.g. in banks, post office, bookmakers etc.	Yes	1280
Retail - concourse/shopping mall	The central (shared) area within a shopping centre used for access by shoppers (typically a covered area containing one or more of benches, cafes, escalators etc.)	No	
Retail - Staff office area and staffroom	Staff office space and staffroom, often located in 'back of house' areas.	Yes	0
Retail - Staff canteen dining area	Seated areas in a staff canteen that accompany a food preparation areas where food and drink is consumed by staff on the premises.	No	
Retail - Goods-in and storage area	Internal areas for receiving and storing goods.	Yes	0
Retail - Workshop	A workshop / vehicle servicing area within a car showroom or general workshop in other type of retail development.	No	

Water consumption - building microcomponent

WC component - all activity areas	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)
WC - male (no urinals installed)	Effective flush volume (Litres)	3.50	0.83	1.00	1.03
WC - female	Effective flush volume (Litres)	3.50	0.83	1.00	1.89

Urinal component - all activity areas	units	Specification	No. of cisterns	Flushing frequency (flushes/hour)	Consumption (L/person/day)
	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)
	units		Usage/person/day	Usage factor	Consumption (L/person/day)

	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)
Taps components (personal hygiene) - all activity areas					
Wash hand basin taps	Flow rate (litres/min)	5.00	0.83	0.25	0.71
Shower use	Flow rate (litres/min)	6.00	0.000	5.60	0.01
Fixed use - vessel filling	Litres/person/day	-	-	-	0.02
Tap components (cleaning) - staff kitchenette					
Kitchen taps - kitchenette	Flow rate (litres/min)	6.00	0.01	0.67	0.03
Dishwasher	Litres/cycle	12.00	0.0004	1.00	0.01
Tap components (cleaning and food preparation) - staff canteen food preparation area					

Total	Microcomponent Consumption (L/person/day)
	3.84

Non potable water yield - greywater system

Has, or will, the greywater system be specified and installed in compliance with BS8525-1:2010 Greywater Systems - Part 1 Code of Practice				No
Greywater source (building components)	Greywater collected	Proportion of components collected from (%)	Greywater yield (L/person/day)	
Bath			0.00	
Washing machine			0.00	
Greywater source (other components)	Typical greywater yield (litres)	Frequency of yield (days)	Greywater yield (litres/day)	Greywater yield (L/person/day)
Total				Greywater yield (L/person/day)

Non potable water yield - rainwater system

Has, or will, the rainwater system be specified and installed in compliance with BS EN 16941-1:2018 Rainwater Harvesting Systems - Code of practice	No
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How has the storage capacity for the proposed system been calculated?

Rainwater yield if basic approach:

Collection area (m2)	Rainfall (average mm/yr)	Hydraulic filter efficiency (%)	Yield co-efficient (%)	Annual rainwater yield (Litres)	Rainwater yield (L/person/day)

Rainwater yield if detailed:

Daily rainfall collection (litres)	Rainwater yield (L/person/day)

Non potable water demand - building components

				Greywater and/or rainwater yield (L/person/day)
Total				
Component	Greywater and/or rainwater utilised for component	Proportion of components using greywater and/or rainwater yield (%)	Maximum permissible demand (L/person/day)	
				Demand met by yield (L/person/day)
Total				
Other permissible components				
				Maximum permissible demand (L/day)
				Demand met by yield (L/person/day)
Total				
				Greywater and/or rainwater demand met by yield (L/person/day)
Total				

Water consumption calculation results

	Litres/person/day	m ³ /person/yr
Water consumption - modelled baseline performance benchmark (excludes fixed uses)	6.65	2.41
Microcomponent water consumption - modelled performance (excludes fixed uses)	3.82	1.38
Modelled water demand met via greywater and rainwater sources	0.00	0.00
If greywater/rainwater systems specified has the minimum % efficiency improvement for component specifications been met	System not specified	
Net modelled water consumption (excludes fixed uses)	3.82	1.38
Percentage improvement	42.51%	
Total Wat 01 BREEAM credits achieved	3 credits	
Total Wat 01 BREEAM Exemplary credits achieved	Exemplary level not achieved	
Key performance indicator - use of freshwater resource (includes fixed uses)	3.84	1.39

Building type	Description of building type	Default annual days/operation	Default daily hours of operation
Retail - Supermarket	TCP Classification A1 Shops: supermarket	362	13
	Does the retail development contain sanitary facilities for use by visiting customers?		Yes
		Default daily occupancy visiting customers	7578
		Default daily occupancy staff	84

Main building activity areas	Description of activity area	Activity area present in building?	Net Floor Area (m²)
Retail - sales areas for display of bulky items	A retail sales/display area trading predominantly in bulky items, e.g. furniture, floor coverings, cycles, prams, large domestic appliances or other bulky goods, or trading on a wholesale self-selection basis.	Yes	620
Retail - sales areas for display of non bulky items and/or customer service area.	A general sales/display areas in department stores, supermarkets, shops and/or customer service waiting and/or collection areas e.g. in banks, post office, bookmakers etc.	Yes	1280
Retail - concourse/shopping mall	The central (shared) area within a shopping centre used for access by shoppers (typically a covered area containing one or more of benches, cafes, escalators etc.)	No	
Retail - Staff office area and staffroom	Staff office space and staffroom, often located in 'back of house' areas.	Yes	0
Retail - Staff canteen dining area	Seated areas in a staff canteen that accompany a food preparation areas where food and drink is consumed by staff on the premises.	No	
Retail - Goods-in and storage area	Internal areas for receiving and storing goods.	Yes	0
Retail - Workshop	A workshop / vehicle servicing area within a car showroom or general workshop in other type of retail development.	No	

Water consumption - building microcomponent

WC component - all activity areas	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)
WC - male (no urinals installed)	Effective flush volume (Litres)	3.00	0.83	1.00	0.88
WC - female	Effective flush volume (Litres)	3.00	0.83	1.00	1.62

Urinal component - all activity areas	units	Specification	No. of cisterns	Flushing frequency (flushes/hour)	Consumption (L/person/day)

	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)
Taps - components (personal hygiene) - all activity areas					
Wash hand basin taps	Flow rate (litres/min)	3.00	0.83	0.25	0.42
Shower use	Flow rate (litres/min)	3.50	0.000	5.60	0.01
Fixed use - vessel filling	Litres/person/day	-	-	-	0.02
Tap components (cleaning) - staff kitchenette					
Kitchen taps - kitchenette	Flow rate (litres/min)	5.00	0.01	0.67	0.02
Dishwasher	Litres/cycle	10.00	0.0004	1.00	0.00
Tap components (cleaning and food preparation) - staff canteen food preparation area					

Total Microcomponent Consumption (L/person/day) 3.13

Non potable water yield - greywater system

Has, or will, the greywater system be specified and installed in compliance with BS8525-1:2010 Greywater Systems - Part 1 Code of Practice				Yes
Greywater source (building components)	Greywater collected	Proportion of components collected from (%)	Greywater yield (L/person/day)	
Wash hand basin taps	Yes	100%	0.42	
Showers	No			
Kitchen taps - kitchenette	No			
Dishwasher - staff kitchenette	No			
Bath			0.00	
Washing machine			0.00	
Greywater source (other components)	Typical greywater yield (litres)	Frequency of yield (days)	Greywater yield (litres/day)	Greywater yield (L/person/day)
Other source of greywater				0.00
Total Greywater yield (L/person/day)				0.42

Non potable water yield - rainwater system

Has, or will, the rainwater system be specified and installed in compliance with BS EN 16941-1:2018 Rainwater Harvesting Systems - Code of practice		Yes
How has the storage capacity for the proposed system been calculated?		BS EN 16941-1 'basic approach'

Rainwater yield if basic approach:

Collection area (m2)	Rainfall (average mm/yr)	Hydraulic filter efficiency (%)	Yield co-efficient (%)	Annual rainwater yield (Litres)	Rainwater yield (L/person/day)
1,900	860	80.00%	90.00%	1176480	0.42

Rainwater yield if detailed:

Daily rainfall collection (litres)	Rainwater yield (L/person/day)

Non potable water demand - building components

			Greywater and/or rainwater yield (L/person/day)
Total			0.84
Component	Greywater and/or rainwater utilised for component	Proportion of components using greywater and/or rainwater yield (%)	Maximum permissible demand (L/person/day)
WC flushing	Yes	32%	0.80
			Demand met by yield (L/person/day)
Total			0.80
<i>Other permissible components</i>			
Are there other permissible components present which demand greywater and/or rainwater yield?			No
			Maximum permissible demand (L/day)
			330
Proportion of maximum permissible demand utilised by other permissible components (%)			Demand met by yield (L/person/day)
Total			0.00
			Greywater and/or rainwater demand met by yield (L/person/day)
Total			0.80

Water consumption calculation results

	Litres/person/day	m ³ /person/yr
Water consumption - modelled baseline performance benchmark (excludes fixed uses)	6.65	2.41
Microcomponent water consumption - modelled performance (excludes fixed uses)	3.11	1.13
Modelled water demand met via greywater and rainwater sources	0.80	0.29
If greywater/rainwater systems specified has the minimum % efficiency improvement for component specifications been met	Yes	
Net modelled water consumption (excludes fixed uses)	2.31	0.84
Percentage improvement	65.25%	
Total Wat 01 BREEAM credits achieved	5 credits	
Total Wat 01 BREEAM Exemplary credits achieved	1 innovation credit achieved	
Key performance indicator - use of freshwater resource (includes fixed uses)	2.33	0.84

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WC component - all activity areas	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)
WC - male (no urinals installed)	Effective flush volume (Litres)	6.00	0.83	1.00	1.76
WC - female	Effective flush volume (Litres)	6.00	0.83	1.00	3.25

	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)
Taps components (personal hygiene) - all activity areas					
Wash hand basin taps	Flow rate (litres/min)	10.00	0.83	0.25	1.41
Shower use	Flow rate (litres/min)	12.00	0.000	5.60	0.02
Fixed use - vessel filling	Litres/person/day	-	-	-	0.02
Tap components (cleaning) - staff kitchenette					
Kitchen taps - kitchenette	Flow rate (litres/min)	10.00	0.01	0.67	0.05
Dishwasher	Litres/cycle	17.00	0.0004	1.00	0.01
Tap components (cleaning and food preparation) - staff canteen food preparation area					

Total

	Has, or will, the grevwater system be specified and installed in compliance with BS8525-1:2010 Grevwater Systems - Part 1 Code of Practice	No
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TotalTotal

	Has, or will, the rainwater system be specified and installed in compliance with BS EN 16941-1:2018 Rainwater Harvesting Systems - Code of practice	No
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How has the storage capacity for the proposed system been calculated?

Rainwater yield if basic approach:

Collection area (m2)	Rainfall (average mm/yr)	Hydraulic filter efficiency (%)	Yield co-efficient (%)	Annual rainwater yield (Litres)	Rainwater yield (L/person/day)

Rainwater yield if detailed:

Daily rainfall collection (litres)	Rainwater yield (L/person/day)

Non potable water demand - building components

				Greywater and/or rainwater yield (L/person/day)
Total				
Component	Greywater and/or rainwater utilised for component	Proportion of components using greywater and/or rainwater yield (%)	Maximum permissible demand (L/person/day)	
Total				Demand met by yield (L/person/day)
Other permissible components				
				Maximum permissible demand (L/day)
				Demand met by yield (L/person/day)
Total				
				Greywater and/or rainwater demand met by yield (L/person/day)
Total				

Water consumption calculation results

	Litres/person/day	m ³ /person/yr
Water consumption - modelled baseline performance benchmark (excludes fixed uses)	6.65	2.41
Microcomponent water consumption - modelled performance (excludes fixed uses)	6.65	2.41
Modelled water demand met via greywater and rainwater sources	0.00	0.00
If greywater/rainwater systems specified has the minimum % efficiency improvement for component specifications been met	System not specified	
Net modelled water consumption (excludes fixed uses)	6.65	2.41
Percentage improvement	0.00%	
Total Wat 01 BREEAM credits achieved	0 credits	
Total Wat 01 BREEAM Exemplary credits achieved	Exemplary level not achieved	
Key performance indicator - use of freshwater resource (includes fixed uses)	6.67	2.41

Main building activity areas	Description of activity area	Activity area present in building?	Net Floor Area (m ²)
Office - Office areas	Cellular or open plan office space, including staff kitchen where present/adjacent and reception areas. Exclude meeting rooms, visitor waiting or circulation areas.	Yes	433
Office - Small workshop / laboratory space	Small scale workshop or category 1 laboratory area	No	
Office - Staff canteen dining area	Seated dining areas that accompany a permanently staffed kitchen preparing food for consumption on the premises (excludes small un-staffed kitchen's used by office staff to re-heat food, make tea etc.)	No	
Office - Fitness suite/gym (with changing facility and showers)	A fitness suite or gym that is part of the office building/development and used by the building's employees only. The gym will have its own changing facility with showers.	Yes	

Urinal component - all activity areas	units	Specification	No. of cisterns	Flushing frequency (flushes/hour)	Consumption (L/person/day)
	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)
	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)

	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)
Taps components (personal hygiene) - all activity areas					
Wash hand basin taps	Flow rate (litres/min)	5.00	4.00	0.25	3.39
Shower use	Flow rate (litres/min)	6.00	0.154	5.60	5.17
Fixed use - vessel filling	Litres/person/day	-	-	-	1.63
Tap components (cleaning) - staff kitchenette					
Kitchen taps - kitchenette	Flow rate (litres/min)	6.00	1.00	0.67	2.72
Dishwasher	Litres/cycle	12.00	0.04	1.00	0.48
Tap components (cleaning and food preparation) - staff canteen food preparation area					

Has, or will, the rainwater system be specified and installed in compliance with BS EN 16941-1:2018 Rainwater Harvesting Systems - Code of practice	No
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Collection area (m2)	Rainfall (average mm/yr)	Hydraulic filter efficiency (%)	Yield co-efficient (%)	Annual rainwater yield (Litres)	Rainwater yield (L/person/day)

Daily rainfall collection (litres)	Rainwater yield (L/person/day)

			Greywater and/or rainwater yield (L/person/day)
Total			
Component	Greywater and/or rainwater utilised for component	Proportion of components using greywater and/or rainwater yield (%)	Maximum permissible demand (L/person/day)
			Demand met by yield (L/person/day)
Total			
<i>Other permissible components</i>			
			Maximum permissible demand (L/day)
			Demand met by yield (L/person/day)
Total			
			Greywater and/or rainwater demand met by yield (L/person/day)
Total			

	Litres/person/day	m ³ /person/yr
Water consumption - modelled baseline performance benchmark (excludes fixed uses)	46.33	11.72
Microcomponent water consumption - modelled performance (excludes fixed uses)	26.76	6.77
Modelled water demand met via greywater and rainwater sources	0.00	0.00
If greywater/rainwater systems specified has the minimum % efficiency improvement for component specifications been met	System not specified	
Net modelled water consumption (excludes fixed uses)	26.76	6.77
Percentage improvement	42.24%	
Total Wat 01 BREEAM credits achieved	3 credits	
Total Wat 01 BREEAM Exemplary credits achieved	Exemplary level not achieved	
Key performance indicator - use of freshwater resource (includes fixed uses)	28.39	7.18

Main building activity areas	Description of activity area	Activity area present in building?	Net Floor Area (m ²)
Office - Office areas	Cellular or open plan office space, including staff kitchen where present/adjacent and reception areas. Exclude meeting rooms, visitor waiting or circulation areas.	Yes	433
Office - Small workshop / laboratory space	Small scale workshop or category 1 laboratory area	No	
Office - Staff canteen dining area	Seated dining areas that accompany a permanently staffed kitchen preparing food for consumption on the premises (excludes small un-staffed kitchen's used by office staff to re-heat food, make tea etc.)	No	
Office - Fitness suite/gym (with changing facility and showers)	A fitness suite or gym that is part of the office building/development and used by the building's employees only. The gym will have its own changing facility with showers.	Yes	

Urinal component - all activity areas	units	Specification	No. of cisterns	Flushing frequency (flushes/hour)	Consumption (L/person/day)
	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)
	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)

How has the storage capacity for the proposed system been calculated?	BS EN 16941-1 'basic approach'
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Rainwater yield if basic approach:

Collection area (m2)	Rainfall (average mm/yr)	Hydraulic filter efficiency (%)	Yield co-efficient (%)	Annual rainwater yield (Litres)	Rainwater yield (L/person/day)
433	860	80.00%	90.00%	268114	15.28

Rainwater yield if detailed:

Daily rainfall collection (litres)	Rainwater yield (L/person/day)

Non Potable Water Demand - Building Components

	Greywater and/or rainwater yield (L/person/day)
Total	15.28

Component	Greywater and/or rainwater utilised for component	Proportion of components using greywater and/or rainwater yield (%)	Maximum permissible demand (L/person/day)
WC flushing	Yes	30%	3.60

	Demand met by yield (L/person/day)
Total	3.60

Other permissible components

Are there other permissible components present which demand greywater and/or rainwater yield?	No
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Maximum permissible demand (L/day)	562
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Proportion of maximum permissible demand utilised by other permissible components (%)	
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Demand met by yield (L/person/day)	0.00
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	Greywater and/or rainwater demand met by yield (L/person/day)
Total	3.60

Water consumption calculation results

	Litres/person/day	m ³ /person/yr
Water consumption - modelled baseline performance benchmark (excludes fixed uses)	46.33	11.72
Microcomponent water consumption - modelled performance (excludes fixed uses)	19.72	4.99
Modelled water demand met via greywater and rainwater sources	3.60	0.91
If greywater/rainwater systems specified has the minimum % efficiency improvement for component specifications been met	Yes	
Net modelled water consumption (excludes fixed uses)	16.12	4.08
Percentage improvement	65.21%	
Total Wat 01 BREEAM credits achieved	5 credits	
Total Wat 01 BREEAM Exemplary credits achieved	1 innovation credit achieved	
Key performance indicator - use of freshwater resource (includes fixed uses)	17.75	4.49

BREEAM 2018/Version 6 Wat 01 Water consumption: Water efficiency calculator for new office buildings

Building type	Description of building type	Default occupancy	Default annual days/operation	Default daily hours of operation
Office	TCP Classification B1: Offices and workshop business (including those with a basic (category 1) laboratory area)	48.063	253	10

Main building activity areas	Description of activity area	Activity area present in building?	Net Floor Area (m ²)
Office - Office areas	Cellular or open plan office space, including staff kitchen where present/adjacent and reception areas. Exclude meeting rooms, visitor waiting or circulation areas.	Yes	433
Office - Small workshop / laboratory space	Small scale workshop or category 1 laboratory area	No	
Office - Staff canteen dining area	Seated dining areas that accompany a permanently staffed kitchen preparing food for consumption on the premises (excludes small un-staffed kitchen's used by office staff to re-heat food, make tea etc.)	No	
Office - Fitness suite/gym (with changing facility and showers)	A fitness suite or gym that is part of the office building/development and used by the building's employees only. The gym will have its own changing facility with showers.	Yes	

Water consumption - building microcomponent

WC component - all activity areas	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)
WC - male (no urinals installed)	Effective flush volume (Litres)	6.00	4.00	1.00	12.00
WC - female	Effective flush volume (Litres)	6.00	4.00	1.00	12.00

Urinal component - all activity areas	units	Specification	No. of cisterns	Flushing frequency (flushes/hour)	Consumption (L/person/day)

	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)
Taps components (personal hygiene) - all activity areas					
Wash hand basin taps	Flow rate (litres/min)	10.00	4.00	0.25	6.77
Shower use	Flow rate (litres/min)	12.00	0.154	5.60	10.35
Fixed use - vessel filling	Litres/person/day	-	-	-	1.63
Tap components (cleaning) - staff kitchenette					
Kitchen taps - kitchenette	Flow rate (litres/min)	10.00	1.00	0.67	4.54
Dishwasher	Litres/cycle	17.00	0.04	1.00	0.68
Tap components (cleaning and food preparation) - staff canteen food preparation area					

Total	Microcomponent consumption (L/person/day)
	47.96

Non potable water yield - greywater system

>	Has, or will, the greywater system be specified and installed in compliance with BS8525-1:2010 Greywater Systems - Part 1 Code of Practice	Please select
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Greywater source (building components)	Greywater collected	Proportion of components collected from (%)	Greywater yield (L/person/day)
Greywater source (other components)	Typical greywater yield (litres)	Frequency of yield (days)	Greywater yield (litres/day)

Total	Greywater yield (L/person/day)
	0.00

Non potable water yield - rainwater system

>	Has, or will, the rainwater system be specified and installed in compliance with BS EN 16941-1:2018 Rainwater Harvesting Systems - Code of practice	Please select
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	How has the storage capacity for the proposed system been calculated?
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Rainwater yield if basic approach:

Collection area (m2)	Rainfall (average mm/yr)	Hydraulic filter efficiency (%)	Yield co-efficient (%)	Annual rainwater yield (Litres)	Rainwater yield (L/person/day)
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					<i>Rainwater yield if detailed:</i>
					Rainwater yield (L/person/day)
					Daily rainfall collection (litres)

Non Potable Water Demand - Building Components

				Greywater and/or rainwater yield (L/person/day)
Total				
Component	Greywater and/or rainwater utilised for component	Proportion of components using greywater and/or rainwater yield (%)	Maximum permissible demand (L/person/day)	
Total				Demand met by yield (L/person/day)
<i>Other permissible components</i>				
				Maximum permissible demand (L/day)
				Demand met by yield (L/person/day)
Total				
				Greywater and/or rainwater demand met by yield (L/person/day)
Total				

Water consumption calculation results

	Litres/person/day	m ³ /person/yr
Water consumption - modelled baseline performance benchmark (excludes fixed uses)	46.33	11.72
Microcomponent water consumption - modelled performance (excludes fixed uses)	46.33	11.72
Modelled water demand met via greywater and rainwater sources	0.00	0.00
If greywater/rainwater systems specified has the minimum % efficiency improvement for component specifications been met	FALSE	
Net modelled water consumption (excludes fixed uses)	46.33	11.72
Percentage improvement	0.00%	
Total Wat 01 BREEAM credits achieved	0 credits	
Total Wat 01 BREEAM Exemplary credits achieved	Exemplary level not achieved	
Key performance indicator - use of freshwater resource (includes fixed uses)	47.96	12.14

BREEAM 2018/Version 6 Wat 01 Water consumption: Water efficiency calculator for new office buildings

Building type	Description of building type	Default occupancy	Default annual days/operation	Default daily hours of operation
Office	TCP Classification B1: Offices and workshop business (including those with a basic (category 1) laboratory area)	27.195	253	10

Main building activity areas	Description of activity area	Activity area present in building?	Net Floor Area (m ²)
Office - Office areas	Cellular or open plan office space, including staff kitchen where present/adjacent and reception areas. Exclude meeting rooms, visitor waiting or circulation areas.	Yes	245
Office - Small workshop / laboratory space	Small scale workshop or category 1 laboratory area	No	
Office - Staff canteen dining area	Seated dining areas that accompany a permanently staffed kitchen preparing food for consumption on the premises (excludes small un-staffed kitchen's used by office staff to re-heat food, make tea etc.)	No	
Office - Fitness suite/gym (with changing facility and showers)	A fitness suite or gym that is part of the office building/development and used by the building's employees only. The gym will have its own changing facility with showers.	Yes	

Water consumption - building microcomponent

WC component - all activity areas	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)
WC - male (no urinals installed)	Effective flush volume (Litres)	3.75	4.00	1.00	7.50
WC - female	Effective flush volume (Litres)	3.75	4.00	1.00	7.50

Urinal component - all activity areas	units	Specification	No. of cisterns	Flushing frequency (flushes/hour)	Consumption (L/person/day)

	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)
Taps components (personal hygiene) - all activity areas					
Wash hand basin taps	Flow rate (litres/min)	5.00	4.00	0.25	3.39
Shower use	Flow rate (litres/min)	6.00	0.154	5.60	5.17
Fixed use - vessel filling	Litres/person/day	-	-	-	1.63
Tap components (cleaning) - staff kitchenette					
Kitchen taps - kitchenette	Flow rate (litres/min)	6.00	1.00	0.67	2.72
Dishwasher	Litres/cycle	12.00	0.04	1.00	0.48
Tap components (cleaning and food preparation) - staff canteen food preparation area					

	Microcomponent consumption (L/person/day)
Total	28.39

Non potable water yield - greywater system

Has, or will, the greywater system be specified and installed in compliance with BS8525-1:2010 Greywater Systems - Part 1 Code of Practice	No
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Greywater source (building components)	Greywater collected	Proportion of components collected from (%)	Greywater yield (L/person/day)
Greywater source (other components)	Typical greywater yield (litres)	Frequency of yield (days)	Greywater yield (litres/day)

	Greywater yield (L/person/day)
Total	0.00

Non potable water yield - rainwater system

Has, or will, the rainwater system be specified and installed in compliance with BS EN 16941-1:2018 Rainwater Harvesting Systems - Code of practice	No
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How has the storage capacity for the proposed system been calculated?

Rainwater yield if basic approach:

Collection area (m2)	Rainfall (average mm/yr)	Hydraulic filter efficiency (%)	Yield co-efficient (%)	Annual rainwater yield (Litres)	Rainwater yield (L/person/day)

Rainwater yield if detailed:

Daily rainfall collection (litres)	Rainwater yield (L/person/day)

Non Potable Water Demand - Building Components

				Greywater and/or rainwater yield (L/person/day)
Total				
Component	Greywater and/or rainwater utilised for component	Proportion of components using greywater and/or rainwater yield (%)	Maximum permissible demand (L/person/day)	
Total				Demand met by yield (L/person/day)
Other permissible components				
				Maximum permissible demand (L/day)
				Demand met by yield (L/person/day)
Total				
				Greywater and/or rainwater demand met by yield (L/person/day)
Total				

Water consumption calculation results

	Litres/person/day	m ³ /person/yr
Water consumption - modelled baseline performance benchmark (excludes fixed uses)	46.33	11.72
Microcomponent water consumption - modelled performance (excludes fixed uses)	26.76	6.77
Modelled water demand met via greywater and rainwater sources	0.00	0.00
If greywater/rainwater systems specified has the minimum % efficiency improvement for component specifications been met	System not specified	
Net modelled water consumption (excludes fixed uses)	26.76	6.77
Percentage improvement	42.24%	
Total Wat 01 BREEAM credits achieved	3 credits	
Total Wat 01 BREEAM Exemplary credits achieved	Exemplary level not achieved	
Key performance indicator - use of freshwater resource (includes fixed uses)	28.39	7.18

Main building activity areas	Description of activity area	Activity area present in building?	Net Floor Area (m ²)
Office - Office areas	Cellular or open plan office space, including staff kitchen where present/adjacent and reception areas. Exclude meeting rooms, visitor waiting or circulation areas.	Yes	245
Office - Small workshop / laboratory space	Small scale workshop or category 1 laboratory area	No	
Office - Staff canteen dining area	Seated dining areas that accompany a permanently staffed kitchen preparing food for consumption on the premises (excludes small un-staffed kitchen's used by office staff to re-heat food, make tea etc.)	No	
Office - Fitness suite/gym (with changing facility and showers)	A fitness suite or gym that is part of the office building/development and used by the building's employees only. The gym will have its own changing facility with showers.	Yes	

WC component - all activity areas	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)
WC - male (no urinals installed)	Effective flush volume (Litres)	3.00	4.00	1.00	6.00
WC - female	Effective flush volume (Litres)	3.00	4.00	1.00	6.00

Urinal component - all activity areas	units	Specification	No. of cisterns	Flushing frequency (flushes/hour)	Consumption (L/person/day)
	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)
	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)

	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)
Taps components (personal hygiene) - all activity areas					
Wash hand basin taps	Flow rate (litres/min)	3.00	4.00	0.25	2.03
Shower use	Flow rate (litres/min)	3.50	0.154	5.60	3.02
Fixed use - vessel filling	Litres/person/day	-	-	-	1.63
Tap components (cleaning) - staff kitchenette					
Kitchen taps - kitchenette	Flow rate (litres/min)	5.00	1.00	0.67	2.27
Dishwasher	Litres/cycle	10.00	0.04	1.00	0.40
Tap components (cleaning and food preparation) - staff canteen food preparation area					

	Microcomponent consumption (L/person/day)
Total	21.35

Has, or will, the greywater system be specified and installed in compliance with BS8525-1:2010 Greywater Systems - Part 1 Code of Practice	No
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Greywater source (building components)		Greywater collected	Proportion of components collected from (%)	Greywater yield (L/person/day)
Greywater source (other components)	Typical greywater yield (litres)	Frequency of yield (days)	Greywater yield (litres/day)	Greywater yield (L/person/day)

	Greywater yield (L/person/day)
Total	0.00

Has, or will, the rainwater system be specified and installed in compliance with BS EN 16941-1:2018 Rainwater Harvesting Systems - Code of practice	Yes
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How has the storage capacity for the proposed system been calculated?	BS EN 16941-1 'basic approach'
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Rainwater yield if basic approach:

Collection area (m2)	Rainfall (average mm/yr)	Hydraulic filter efficiency (%)	Yield co-efficient (%)	Annual rainwater yield (Litres)	Rainwater yield (L/person/day)
245	860	80.00%	90.00%	151704	15.28

Rainwater yield if detailed:

Daily rainfall collection (litres)	Rainwater yield (L/person/day)

Non Potable Water Demand - Building Components

				Greywater and/or rainwater yield (L/person/day)
Total				15.28
Component	Greywater and/or rainwater utilised for component	Proportion of components using greywater and/or rainwater yield (%)	Maximum permissible demand (L/person/day)	
WC flushing	Yes	30%	3.60	
				Demand met by yield (L/person/day)
Total				3.60
Other permissible components				
Are there other permissible components present which demand greywater and/or rainwater yield?				No
				Maximum permissible demand (L/day)
				318
Proportion of maximum permissible demand utilised by other permissible components (%)				
				Demand met by yield (L/person/day)
Total				0.00
				Greywater and/or rainwater demand met by yield (L/person/day)
Total				3.60

Water consumption calculation results

	Litres/person/day	m ³ /person/yr
Water consumption - modelled baseline performance benchmark (excludes fixed uses)	46.33	11.72
Microcomponent water consumption - modelled performance (excludes fixed uses)	19.72	4.99
Modelled water demand met via greywater and rainwater sources	3.60	0.91
If greywater/rainwater systems specified has the minimum % efficiency improvement for component specifications been met	Yes	
Net modelled water consumption (excludes fixed uses)	16.12	4.08
Percentage improvement	65.21%	
Total Wat 01 BREEAM credits achieved	5 credits	
Total Wat 01 BREEAM Exemplary credits achieved	1 innovation credit achieved	
Key performance indicator - use of freshwater resource (includes fixed uses)	17.75	4.49

BREEAM 2018/Version 6 Wat 01 Water consumption: Water efficiency calculator for new office buildings

Building type	Description of building type	Default occupancy	Default annual days/operation	Default daily hours of operation
Office	TCP Classification B1: Offices and workshop business (including those with a basic (category 1) laboratory area)	27.195	253	10

Main building activity areas	Description of activity area	Activity area present in building?	Net Floor Area (m ²)
Office - Office areas	Cellular or open plan office space, including staff kitchen where present/adjacent and reception areas. Exclude meeting rooms, visitor waiting or circulation areas.	Yes	245
Office - Small workshop / laboratory space	Small scale workshop or category 1 laboratory area	No	
Office - Staff canteen dining area	Seated dining areas that accompany a permanently staffed kitchen preparing food for consumption on the premises (excludes small un-staffed kitchen's used by office staff to re-heat food, make tea etc.)	No	
Office - Fitness suite/gym (with changing facility and showers)	A fitness suite or gym that is part of the office building/development and used by the building's employees only. The gym will have its own changing facility with showers.	Yes	

Water consumption - building microcomponent

WC component - all activity areas	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)
WC - male (no urinals installed)	Effective flush volume (Litres)	6.00	4.00	1.00	12.00
WC - female	Effective flush volume (Litres)	6.00	4.00	1.00	12.00

Urinal component - all activity areas	units	Specification	No. of cisterns	Flushing frequency (flushes/hour)	Consumption (L/person/day)

	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)
Taps components (personal hygiene) - all activity areas					
Wash hand basin taps	Flow rate (litres/min)	10.00	4.00	0.25	6.77
Shower use	Flow rate (litres/min)	12.00	0.154	5.60	10.35
Fixed use - vessel filling	Litres/person/day	-	-	-	1.63
Tap components (cleaning) - staff kitchenette					
Kitchen taps - kitchenette	Flow rate (litres/min)	10.00	1.00	0.67	4.54
Dishwasher	Litres/cycle	17.00	0.04	1.00	0.68
Tap components (cleaning and food preparation) - staff canteen food preparation area					

Total	Microcomponent consumption (L/person/day)
	47.96

Non potable water yield - greywater system

>	Has, or will, the greywater system be specified and installed in compliance with BS8525-1:2010 Greywater Systems - Part 1 Code of Practice	Please select
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Greywater source (building components)	Greywater collected	Proportion of components collected from (%)	Greywater yield (L/person/day)
Greywater source (other components)	Typical greywater yield (litres)	Frequency of yield (days)	Greywater yield (litres/day)

Total	Greywater yield (L/person/day)
	0.00

Non potable water yield - rainwater system

>	Has, or will, the rainwater system be specified and installed in compliance with BS EN 16941-1:2018 Rainwater Harvesting Systems - Code of practice	Please select
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	How has the storage capacity for the proposed system been calculated?
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Rainwater yield if basic approach:

Collection area (m2)	Rainfall (average mm/yr)	Hydraulic filter efficiency (%)	Yield co-efficient (%)	Annual rainwater yield (Litres)	Rainwater yield (L/person/day)
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					<i>Rainwater yield if detailed:</i>
					Rainwater yield (L/person/day)
					Daily rainfall collection (litres)

Non Potable Water Demand - Building Components

				Greywater and/or rainwater yield (L/person/day)
				Total
Component	Greywater and/or rainwater utilised for component	Proportion of components using greywater and/or rainwater yield (%)	Maximum permissible demand (L/person/day)	
				Demand met by yield (L/person/day)
				Total
<i>Other permissible components</i>				
				Maximum permissible demand (L/day)
				Demand met by yield (L/person/day)
				Total
				Greywater and/or rainwater demand met by yield (L/person/day)
				Total

Water consumption calculation results

	Litres/person/day	m ³ /person/yr
Water consumption - modelled baseline performance benchmark (excludes fixed uses)	46.33	11.72
Microcomponent water consumption - modelled performance (excludes fixed uses)	46.33	11.72
Modelled water demand met via greywater and rainwater sources	0.00	0.00
If greywater/rainwater systems specified has the minimum % efficiency improvement for component specifications been met	FALSE	
Net modelled water consumption (excludes fixed uses)	46.33	11.72
Percentage improvement	0.00%	
Total Wat 01 BREEAM credits achieved	0 credits	
Total Wat 01 BREEAM Exemplary credits achieved	Exemplary level not achieved	
Key performance indicator - use of freshwater resource (includes fixed uses)	47.96	12.14

BREEAM 2018/Version 6 Wat 01 Water consumption: Water efficiency calculator for new office buildings



Building type	Description of building type	Default occupancy	Default annual days/operation	Default daily hours of operation
Office	TCP Classification B1: Offices and workshop business (including those with a basic (category 1) laboratory area)	116.7	253	10

Main building activity areas	Description of activity area	Activity area present in building?	Net Floor Area (m ²)
Office - Office areas	Cellular or open plan office space, including staff kitchen where present/adjacent and reception areas. Exclude meeting rooms, visitor waiting or circulation areas.	Yes	500
Office - Small workshop / laboratory space	Small scale workshop or category 1 laboratory area	Yes	900
Office - Staff canteen dining area	Seated dining areas that accompany a permanently staffed kitchen preparing food for consumption on the premises (excludes small un-staffed kitchen's used by office staff to re-heat food, make tea etc.)	No	
Office - Fitness suite/gym (with changing facility and showers)	A fitness suite or gym that is part of the office building/development and used by the building's employees only. The gym will have its own changing facility with showers.	Yes	

Water consumption - building microcomponent

WC component - all activity areas	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)
WC - male (no urinals installed)	Effective flush volume (Litres)	3.75	4.00	1.00	7.50
WC - female	Effective flush volume (Litres)	3.75	4.00	1.00	7.50

Urinal component - all activity areas	units	Specification	No. of cisterns	Flushing frequency (flushes/hour)	Consumption (L/person/day)

	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)
Taps components (personal hygiene) - all activity areas					
Wash hand basin taps	Flow rate (litres/min)	5.00	4.00	0.25	3.39
Shower use	Flow rate (litres/min)	6.00	0.154	5.60	5.17
Fixed use - vessel filling	Litres/person/day	-	-	-	1.63
Tap components (cleaning) - staff kitchenette					
Kitchen taps - kitchenette	Flow rate (litres/min)	6.00	1.00	0.67	2.72
Dishwasher	Litres/cycle	12.00	0.04	1.00	0.48
Tap components (cleaning and food preparation) - staff canteen food preparation area					

	Microcomponent consumption (L/person/day)
Total	28.39

Non potable water yield - greywater system

Has, or will, the greywater system be specified and installed in compliance with BS8525-1:2010 Greywater Systems - Part 1 Code of Practice	No
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Greywater source (building components)	Greywater collected	Proportion of components collected from (%)	Greywater yield (L/person/day)
Greywater source (other components)	Typical greywater yield (litres)	Frequency of yield (days)	Greywater yield (litres/day)

	Greywater yield (L/person/day)
Total	0.00

Non potable water yield - rainwater system

Has, or will, the rainwater system be specified and installed in compliance with BS EN 16941-1:2018 Rainwater Harvesting Systems - Code of practice	No
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How has the storage capacity for the proposed system been calculated?

Rainwater yield if basic approach:

Collection area (m2)	Rainfall (average mm/yr)	Hydraulic filter efficiency (%)	Yield co-efficient (%)	Annual rainwater yield (Litres)	Rainwater yield (L/person/day)

Rainwater yield if detailed:

Daily rainfall collection (litres)	Rainwater yield (L/person/day)

Non Potable Water Demand - Building Components

				Greywater and/or rainwater yield (L/person/day)
Total				
Component	Greywater and/or rainwater utilised for component	Proportion of components using greywater and/or rainwater yield (%)	Maximum permissible demand (L/person/day)	
Total				Demand met by yield (L/person/day)
Other permissible components				
				Maximum permissible demand (L/day)
				Demand met by yield (L/person/day)
Total				
				Greywater and/or rainwater demand met by yield (L/person/day)
Total				

Water consumption calculation results

	Litres/person/day	m ³ /person/yr
Water consumption - modelled baseline performance benchmark (excludes fixed uses)	46.33	11.72
Microcomponent water consumption - modelled performance (excludes fixed uses)	26.76	6.77
Modelled water demand met via greywater and rainwater sources	0.00	0.00
If greywater/rainwater systems specified has the minimum % efficiency improvement for component specifications been met	System not specified	
Net modelled water consumption (excludes fixed uses)	26.76	6.77
Percentage improvement	42.24%	
Total Wat 01 BREEAM credits achieved	3 credits	
Total Wat 01 BREEAM Exemplary credits achieved	Exemplary level not achieved	
Key performance indicator - use of freshwater resource (includes fixed uses)	28.39	7.18

Main building activity areas	Description of activity area	Activity area present in building?	Net Floor Area (m ²)
Office - Office areas	Cellular or open plan office space, including staff kitchen where present/adjacent and reception areas. Exclude meeting rooms, visitor waiting or circulation areas.	Yes	500
Office - Small workshop / laboratory space	Small scale workshop or category 1 laboratory area	Yes	900
Office - Staff canteen dining area	Seated dining areas that accompany a permanently staffed kitchen preparing food for consumption on the premises (excludes small un-staffed kitchen's used by office staff to re-heat food, make tea etc.)	No	
Office - Fitness suite/gym (with changing facility and showers)	A fitness suite or gym that is part of the office building/development and used by the building's employees only. The gym will have its own changing facility with showers.	Yes	

Urinal component - all activity areas	units	Specification	No. of cisterns	Flushing frequency (flushes/hour)	Consumption (L/person/day)
	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)
	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)

	units	Specification	Usage/person/day	Usage factor	Consumption (L/person/day)
Taps, components (personal hygiene) - all activity areas					
Wash hand basin taps	Flow rate (litres/min)	3.00	4.00	0.25	2.03
Shower use	Flow rate (litres/min)	3.50	0.154	5.60	3.02
Fixed use - vessel filling	Litres/person/day	-	-	-	1.63
Tap components (cleaning) - staff kitchenette					
Kitchen taps - kitchenette	Flow rate (litres/min)	5.00	1.00	0.67	2.27
Dishwasher	Litres/cycle	10.00	0.04	1.00	0.40
Tap components (cleaning and food preparation) - staff canteen food preparation area					

Greywater source (building components)		Greywater collected	Proportion of components collected from (%)	Greywater yield (L/person/day)
Greywater source (other components)	Typical greywater yield (litres)	Frequency of yield (days)	Greywater yield (litres/day)	Greywater yield (L/person/day)

How has the storage capacity for the proposed system been calculated?	BS EN 16941-1 'basic approach'
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Rainwater yield if basic approach:

Collection area (m2)	Rainfall (average mm/yr)	Hydraulic filter efficiency (%)	Yield co-efficient (%)	Annual rainwater yield (Litres)	Rainwater yield (L/person/day)
1400	860	80.00%	90.00%	866880	20.35

Rainwater yield if detailed:

Daily rainfall collection (litres)	Rainwater yield (L/person/day)

Non Potable Water Demand - Building Components

Greywater and/or rainwater yield (L/person/day)
Total 20.35

Component	Greywater and/or rainwater utilised for component	Proportion of components using greywater and/or rainwater yield (%)	Maximum permissible demand (L/person/day)
WC flushing	Yes	30%	3.60
			Demand met by yield (L/person/day)
			Total 3.60

Other permissible components

Are there other permissible components present which demand greywater and/or rainwater yield?	No
	Maximum permissible demand (L/day)
	1955
Proportion of maximum permissible demand utilised by other permissible components (%)	
	Demand met by yield (L/person/day)
	Total 0.00

Greywater and/or rainwater demand met by yield (L/person/day)
Total 3.60

Water consumption calculation results

	Litres/person/day	m ³ /person/yr
Water consumption - modelled baseline performance benchmark (excludes fixed uses)	46.33	11.72
Microcomponent water consumption - modelled performance (excludes fixed uses)	19.72	4.99
Modelled water demand met via greywater and rainwater sources	3.60	0.91
If greywater/rainwater systems specified has the minimum % efficiency improvement for component specifications been met	Yes	
Net modelled water consumption (excludes fixed uses)	16.12	4.08
Percentage improvement	65.21%	
Total Wat 01 BREEAM credits achieved	5 credits	
Total Wat 01 BREEAM Exemplary credits achieved	1 innovation credit achieved	
Key performance indicator - use of freshwater resource (includes fixed uses)	17.75	4.49