breeam

Dart Valley Systems
a FRANKE company

BREEAM Water requirements

Area	Requirements	Points						
		Courts	Education	Healthcare	Industrial	Offices	Prisons	Retail
Water Consumption	Where evidence provided demonstrated that the specification includes taps, urinals, WCs and showers that consume less potable water in use than standards specifications for the same type of fittings.	3	3	3	3	3	4	3
Water Meter	Where evidence provided demonstrated that a water meter with a pulsed output will be installed on the mains supply to each building/unit.	1	1	1	1	1	1	1
Major Leak Detection	Where evidence provided demonstrated that a leak detection system is specified or installed on the buildings water supply.	1	1	1	1	1	1	1
Sanitary supply shut-off	Where evidence provided demonstrated that proximity detection shut-off is provided to the water supply to all toilet areas.	1	1	1	1	1	1	1
Water Recycling	Where evidence provided demonstrates the specification of systems that collect, store an, where necessary treat or greywater WC and urinal flushing purposes.	1	1	2			3	2

Notes;

Water Consumption	WC should have an effective flush volume of 4.5 litres or less. Dual flushing should have guidance or symbols instructing users on operation. Taps should be either timed shut-pff taps e.g. push taps or electronic sensor taps with a maximun flow rate less than 6litres/min for a water pressure of 0.3MPa. All showers where specified, have a measure flow rate that does not exceed 9 litres per minute for a water pressure of 0.3MPa, assuming a delivered water temperature of 37ºC. Urinals are either; fitted with individual presence detectors that operate the flushing control after each use or ultra low flush or waterless urinals.
Water Meter	The specification of a water meter on the mains water supply to each building; this includes instances where water is supplied via a borehole or other private source. The water meter has a pulsed output to enable connection to a building management system (BMS) for the monitoring of water consumption. Where the site has an existing BMS, the pulsed water meter for the new building must be connected to this BMS.
Major Leak Detection	A leak detection system capable of decting major leaks on the water supply has been installed. The system must cover all mains water supply between and within the building and the site boundary. The leak detection system is audible when activated, activated when the flow of water passes through the water meter/data logger at a flow rate to identify flow and therefore leakages rate, e.g. continuous, high and/or low level, over set time periods. Programmable to suit the owner/occupiers' water consumption requirements. Where applicable, designed to avoid false alarms caused by normal operation of large water-consuming plant such as chillers.
Sanitary supply shut-off	Solenoid valves are installed on the water supply to each toilet area in the building and the flow of water through that supply is controlled by a link to either: infra-red movement detectors within each toilet facility or sensors or switches placed at or on entry doors to each facility. DVS offer a wide range of Solenoid valves which come complete within control kits such as Automatic taps, urinal controls & showers.
Water Recycling	This is to encourage the collection and re-use of waste water or rainwater to meet toiler flushing needs and reduce the demand for potable fresh water.

For full information please contact Dart Valley Systems on +44 (0)1803 529021. Or please refer to BREEAM water guides

Section	Description	Does DVS meet the requirment	Credit	Notes
WC Flushing	All WCs have an effective flush volume of 4.5 litres or less. Where dual flush is specified they have guidance or symbols instructing the user on appropiate operation of the flushing device.	✔	1	The Dart Valley WC01 range of WC Flushvalves has a effective flush of 4.5litres. When dual flushing DVS provide backplates for guidance on operation. DVS products would achieve the credit for the section.
WC Flushing	The second credit can be awarded for either of the following; (a) All WCs have an effective flush volume of 3 litres or less OR (b) All WCs are compliant with the requirement for the first credit and fitted with a delayed action inlet valve.	✔	1	
Taps	All taps except kicthen taps, cleaners sinks & external taps have a maximun flow rate less than 6 litres/min for a water pressure of 0.3MPa and are one of, or a combination of the following types; timed automatic shut-off taps e.g. push taps, electronic sensor taps, low flow screw-down/lever taps or spray taps.	✔	1	
Showers	All showers, where specified, have a measure flow rate that does not exceed 9 litres per minute for a water pressure of 0.3MPa, assuming a delivered water temperature of 37ºC	✔	1	
Urinals	All urinals are either: >Fitted with individual presence detectors that operate the flushing control after each use. >Ultra low flush or waterless urinals	✔	1	