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hospital solutions... what works and why

an informative guide to: hospital washroom requirements



the essential specifiers series

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matrico

In 1817 Thomas Bond founded the company that would become Armitage Shanks with a simple objective; to produce sanitary ware of exceptional quality. Over the last 190 years, investment in technology and traditional manufacturing skills has remained at the core of the business.

Armitage Shanks has a history of innovation, a tradition of product development and a commitment to sustainable design. These factors manifest in a comprehensive product range that is a 'one stop shop' for the specifier.

Part of the Essential Specifiers Series, a collection that will make the process of selecting the right product much simpler, this guide provides the information needed to ensure you meet the needs of your client and current legislation.

As the market leader Armitage Shanks believes it has a responsibility to help define the modern washroom. For almost two centuries it has literally set the standard.



The specification of sanitaryware and fittings for healthcare use can be a life or death decision. Literally.

The resurgent problem of cross-infection in hospitals has the attention of the media. patients and of course the Hospital Trusts themselves.

Armitage Shanks has worked closely with government agencies to generate the functional requirements of sanitaryware, indeed, the current Health Technical Memorandum 64 issued by the Department of Health is only the latest output from a long association between the manufacturer and the Government department. It addresses in great detail the products to be used in a range of applications. Used in conjunction with HBN 00-02, a document that addresses room layout for sanitary healthcare installations, it provides a powerful weapon for the specifier in the battle to beat Healthcare Acquired Infection.

Over many years Armitage Shanks has designed and refined products specific to the healthcare market, most notably the Contour range, a stylish product that has excellent hygiene properties due to its smooth organic shape and functionality. However the new 'super-bugs' will not be defeated by good product design alone, the fight against them must be built into the overall execution of the hospital sanitary facility. HFN 30 outlines methods to reduce the spread of infection at the planning stage and when combined with the experience of Armitage Shanks can give the architect a critical edge in a critical battle.

sanitary facility.



This Essential Specifiers Series guide will present information from the main government standards in a concise format and highlight the steps necessary to design a functional, hygienic healthcare

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A: sanitary facilities must be provided for patients, staff and visitors. several publications are applicable to the requirements of each group;

1] HTM 64

provides detailed sanitaryware assembly specifications for use within patient and medical areas.

2] HBN 00-02

provides specific sanitary room layout designs, utilising the assemblies in HTM 64, for patient and medical areas.

3] BS 6465

provides scale of provision information that can used to calculate the number of sanitary items required in staff and visitor washroom facilities.

4] PART M

provides information on the design and number of disabled facilities that are needed in staff and visitor washrooms.



HTM 64 is one of a series of Department of Health publications that provides design guidance, not included in current British Standards, specifically for health buildings. It is applicable to all new build projects and whenever existing facilities are refurbished or repaired.

Within HTM 64, a sanitary assembly is described as 'comprising a soil or waste

appliance and appropriate supply and waste fittings'. Such assemblies are then broken down into two categories;

- General Pattern for use by patients, staff and visitors that is non clinical.
- Hospital Pattern for use by staff in connection with clinical procedures.

Basins provide a simple example, a General Pattern medium or large basin is intended to allow hand washing in a water reservoir and a plug is specified to allow this, whereas a Hospital Pattern basin only allows hand washing under running water and has a back outlet without a plug.

HTM 64 provides a comprehensive guide to a wide range of General and Hospital Pattern sanitary assemblies and is the foundation upon which all other design decisions are made.

2] Health Building Note 00-002: Volume 1, Part B, Sanitary Spaces

This section of HBN 00-02 provides best practice guidance on the design of clinical sanitary facilities in healthcare buildings. It takes the individual sanitary assemblies from HTM 64 and puts them in a room that is safe, accessible and fit for purpose. Although a provisional document at the time of writing, once published HBN 00-02 will be applicable to all new build healthcare projects and, where practical, refurbishments.

Following extensive independent research HBN 00-02 has identified four categories of clinical sanitary spaces in hospitals;

	key points at a glance
	 HTM 64 Sanitaryware assembly specifications for medical areas
2	 HBN 00-02 Sanitary room layout designs for and medical areas
	 BS 6465 Scale of provision for staff and visitor washroom facilities
2	 PART M The design of disabled facilities in staff and visitor washrooms
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Standard for fully ambulant users. Semi-Ambulant Accessible for people who walk with difficulty.

Independent Wheelchair Accessible for those who operate their own wheelchair. Assisted for those who need the help of two or more staff to use the facilities.

Within the document there are extensive and detailed washroom layouts that cater for the unique needs of each category of patient, the majority of which are single room, single user designs.

HBN 00-02 does not provide layout guidance on non-clinical washrooms. It focuses solely on patient facilities and staff clinical areas. It should also be noted that HBN 00-02 supersedes Part M of the Building Regulations within patient areas of healthcare buildings.

facilities for female staff *(and male staff in hospitals where urinals are not installed in male toilets)

number of female staff*	number of wcs	number of washbasins
1 to 5	1	1
6 to 15	2	2
16 to 30	3	3
31 to 45	4	4
46 to 60	5	5
61 to 75	6	6
76 to 90	7	7
91 to 100	8	8
above 100	8, plus one for every group, or fraction of a group, of 25 staff	

facilities for male staff			
number of male staff	number of wcs	number of urinals	number of washbasins
1 to 15	1	1	1
16 to 30	2	1	2
31 to 45	2	2	2
46 to 60	3	2	3
61 to 75	3	3	3
76 to 90	4	3	4
91 to 100	4	4	4
above 100	4, plus 1 for even of 50 male staff	ry group, or fractio	n of a group,

facilitie toilet us

sanita

WC

urinal

washbas



3] British Standard 6465-1:2006, Sanitary Installations, Part 1 BS 6465 provides general advice on the design of washrooms and the scale of provision (the amount of WCs, basins, etc. a building needs), in new buildings and those being refurbished. The Standard covers 15 different types of building. Unfortunately hospitals are not one of them.

Thankfully the BSi includes some advice within the document; 'Information on the scale of provision, ergonomic data and the special requirements for sanitary appliances in hospitals can be found in the various guidance documents produced by the NHS, HTM 64 and HBN 00-02 amongst them. The issue of staff and visitor non-clinical washrooms is not however featured in these documents and several sections of BS 6465 can provide scale of provision guidance in these areas.

Section 6.4 of BS 6465 covers the design and size of sanitary facilities in the workplace and can therefore be used to assess the non-clinical washroom needs of the hospital staff. The tables above (left) illustrate the minimum recommended provision of sanitary items.

4] Building Regulations 2000, Schedule 1, Part M Section 5 of Part M regulates the 'Sanitary Accommodation in Buildings other than Dwellings' for those who are either permanently of temporarily disabled. In healthcare buildings Part M will principally apply to non-clinical staff and visitor washrooms, it's scale of provision requirements can be summarised as follows;

- A healthcare building having only one toilet it must be unisex and accessible by wheelchair users. It should be of

The size of visitor washroom facilities is most closely addressed by Section 6.9 as this focuses on the scale of provision in public assembly buildings having a constant stream of visitors. The following table describes the BSi's recommended provision of sanitary items;

s in asser se is throu	nbly buildings where ughout the event	
item	for male visitors	for female visitors
	1 for up to 250 males plus 1 for every additional group, or fraction of a group of 500 male WC provision should be half of female provision if urinals are not fitted	2 for up to 40 females 3 for up to 70 females 4 for up to 100 females then plus 1 for every additional group, or fraction of a group over 50
	1 for each group of 50 males, up to 100 plus 1 for every additional group, or fraction of a group, of 100 males	-
sin	1 per wc and in addition 1 per 5 urinals or part thereof	1, plus 1 per 2 wcs or part thereof

Washroom facilities for disabled staff and visitors must also be provided as generally described in Section 7 of BS 6465 and the Armitage Shanks 'Part M' Essential Specifiers Series guide. These facilities can be counted within the overall scale of provision for each area.

greater than standard width to accommodate use of a standing height washbasin in addition to a low-level hand-rinse basin.

 A healthcare building where washroom facilities are provided for visitors or staff, a unisex wheelchair accessible toilet must be provided close to the location of each facility.

- In every non-clinical male and female washroom within a healthcare building, a WC cubicle must be provided for use by the ambulant disabled within a range of standard WC cubicles.

– In a non-clinical male or female washroom within a healthcare building that has four or more WC cubicles, one must be an enlarged cubicle for use by those who require extra space. This is required in addition to an Ambulant Disabled Cubicle.

Further information and sample layouts can be found in the Armitage Shanks **Essential Specifiers Series Guide** 'Part M Solutions... What Works and Why'.



the objective of each essential specifier series is to simplify the process of matching product to project. the next few pages review some of the key issues to be considered in hospital washroom design.

Q: how big a problem is infection control in hospitals?

A: one in ten patients will acquire an infection. the cost to the NHS is £1 billion per year.

Healthcare Acquired Infection (HCAI) is nothing new. The Royal London Hospital was established in 1740 and the minutes of early management meetings included concerns about controlling infection. Eva Luckes, a matron at the Royal London in the late 19th century, wrote 'nurses can scarcely lay too much stress upon the necessity for absolute cleanliness'.

In 'Notes on Nursina' (1860) Florence Nightingale focused on the critical nature of hygiene. Her teachings drastically cut infection in hospitals during the Crimean war.

So if we understood the problem of, and the answer to, infection control over 100 years ago, what has gone wrong? What have we forgotten?

The Department of Health has identified what it considers the leading causes of HCAI;

- We have ignored the lessons of history; proven infection countermeasures have not been performed regularly or properly at the majority of UK hospitals.
- The bugs are getting tougher; the increasing resistance of bacteria to antibiotics makes many infections extremely difficult to treat effectively.
- The bugs are getting smarter; new and improved super-bugs, such as MRSA, exhibit multi-resistance to existing medical treatments.
- We don't know what's going on; gathering data and information is the foundation of effective infection control, and we just haven't done it.

To become infected is a simple process; firstly there must be a place for the bacteria to reproduce, then a method of transmission, lastly a vulnerable host. Breaking the chain of infection at any point will stop it.

Water borne bacteria are a recognised source of HCAI and can be transferred by contact, ingestion and inhalation. The main sources of water in patient care areas are sanitary appliances and they have long been recognised as a potential haven for bacteria.

Under favourable conditions microorganisms will proliferate and remain in an infectious form.





'we all want to do the best we can for our patients and their treatment is really a team effort and that team includes the people who keep the wards clean and the facilities working.

having sanitary facilities that can be easily cleaned and that just keep on working lets me spend more time on patient care'

Q: what can the designer do to fight healthcare acquired infections?

A: pro-active ward design and selecting infection beating products will help.

An American study found an 11% reduction in infection rates in a new private room facility compared to the more traditional layout of older buildings. The American Institute of Architects changed it's hospital design guidelines in July 2006 to recommend individual rooms.

The biggest impact an architect can have on the spread of infection is to provide single occupancy rooms.

In the UK, the NHS Confederation has gone even further; it suggests single rooms with en-suite facilities as a way of optimising infection control. The cost of such a design should be viewed in the long term. The financial savings from efficient control are, according to a Philadelphia study, three times the cost of control measures.

In October 2006 the Department of Health published the 'Code of Practice for the Prevention and Control of HCAI'. Section 4e states that 'An NHS body must... ensure adequate provision of suitable hand wash facilities'. Basins should be sited, in addition to washroom applications, in all patient areas, treatment rooms, sluices and kitchens. In clinical areas they should be fitted with wrist or elbow operated mixer taps or ideally a mixer with automatic 'no touch' operation

The best way to stop HCAI is to eliminate the infectious agent or deny it a reservoir in which to grow. Armitage Shanks products are designed to do just that.

The Contour 21 basin First, let's talk about what this basin doesn't have. It doesn't have any tapholes, it doesn't have an overflow, or a chain hole or a plug. What it has is concealed fixing brackets and an integral back outlet. There are virtually no 'reservoirs' in which water can promote the growth of bacteria.

The original Contour basin was developed specifically for hospital use in the 1960's and this latest version features a new shape and internal structure designed to meet the needs of the modern hospital.

The Rimless Contour 21 WC This back-to-wall WC has a simple footprint and no awkward to clean gap between it and the wall. The very shape of the WC denies the bugs the dark damp places they need.

key points at a glance

- One in ten patients will suffer a Healthcare Acquired Infection (HCAI)
- HCAI is an old problem that has re-emerged due to several factors
- By breaking the chain of infection the problem can be beaten
- Buildings and products designed to break the chain are part of the solution

Beyond building design and hand washing facilities, specifying products designed to break the infection chain, will produce a safer environment.

In most WCs the rim serves one function; to guide the flush water around the bowl. Unfortunately, it also provides a residence for bacteria. The rimless Contour 21 WC has no rim. A single, easy to disinfect, outlet works with an internal bowl design to flush the WC. Performance and hygiene, by design.

Markwik taps & mixers

For years Markwik brassware has set the standard for healthcare fittings. Recently redesigned, the range addresses current issues, particularly infection control.

The most obvious feature of the new fittings is one that is missing, the swan neck. New Markwik now has a horizontal outlet to ensure water drains completely, reducing the risk of bacteria build up.

Not many mixers can clean themselves. Markwik can. By attaching a bridging pipe between hot and cold inlets the mixer can be flushed through, with hot bug killing water. Similarly check valves, filters and strainers can be removed and disinfected without removing the mixer from the wall panel.

Markwik fittings feature integral thermostats that mix the water virtually at the tap's outlet. This avoids the warm water, bacteria friendly, dead leg common to mixers with a separate remote thermostat.

Q: what issues effect a non-clinical washrooms hygiene and durability, and how can maintenance costs be kept down?

A: selecting products based on their intended use and installation environment is critical, as is designing easy maintenance into the scheme.

key points at a glance

- Cleanliness and hygiene are the primary concern of washroom users
- Hydiene is most important on the way out of a washroom
- Product selection will have an impact
- on cleaning regimes
- Comprehensive back-up is key to an efficient maintenance programme

Durability

In modern hospital staff and visitor washrooms vitreous china is the logical sanitaryware choice. It can be cast into attractive shapes, is easy to clean and will withstand constant use in most environments. Alternatively, stainless steel is also highly suited to use within healthcare buildings. Beyond its basic toughness the material has an ability to be 'sculptured', is resistant to chemical attack, has intrinsic hygiene properties, is easy to clean and offers an excellent return on investment. Stainless steel sanitaryware combines material and purpose to achieve the specifier's most demanding objective.

While a plethora of finishes can be found on modern taps and mixers, the classic chrome plated finish cannot be surpassed. The chemical bond between the body of the tap and the finish make its durability superior to other surface treatments on the market.

Hygiene

Unsurprisingly, recent research identifies cleanliness and hygiene as the primary concern of washroom users. Within this broad topic are several key points that when addressed allow the specifier to design hygiene into the washroom.

As a species we adopt rituals in order to deal with many aspects of life, and this is true in the washroom, especially one within a hospital.

Almost all users have their own washroom rituals aimed at avoiding physical contact with surfaces. The challenge for the designer is to propose a layout and product selection that reduces contact with items in the washroom.

Many users believe hygiene is most important on the way out of a washroom. After washing their hands they want to avoid contamination and will try to push open washroom doors with feet or elbows, use tissue paper to grip the door handle or wait for another user to open the door and follow them out before it closes! The solution is a 'one-way, door-less' washroom that minimises the use of hands to exit.

Busy washrooms are perceived as dirty washrooms. People prefer to choose their own WC or urinal and, when unable to do so in a busy toilet, will be obliged to use the one that no one else wants. They view this last WC or urinal as below standard in some way.

The belief is common that a crowded washroom is too busy to be cleaned properly.

Using scale of provision data and an assessment of the project in question will enable the specifier to ensure overcrowding does not become an issue.

Simply providing a clean washroom isn't enough. People use all their senses to judge hygiene; aroma, lighting, materials and colour all play a part in their assessment. This clearly illustrates that the specifier must produce a design that does not just rely on a cleaning regime for its hygiene performance. It must look and feel clean too.



Back outlet basins, hide waste pipework and are easy to keep clean





Free floor space under the WC makes cleaning the floor much simpler



Maintenance

Often an overlooked factor in the purchase decision, cleaning and maintenance costs can have a significant impact on the life costs of a washroom.

Inevitably product selection will have an impact on cleaning regimes. A smoothly contoured assembly is much easier and faster to clean effectively. Fitting a wall hung WC instead of the more traditional floor mounted type will facilitate faster, and more economic, cleaning.

Free floor space under the WC bowl makes washing the floor much simpler as there are no awkward spaces too small for a mop to reach.

This is an area in which hygiene is paramount and thorough cleaning critical.

Products that have 'cleaning friendly' smooth outer skins tend to be more expensive to manufacture because of their internal structure. This is reflected in their purchase price and the specifier may have to explain the long-term value for money that such products represent.



Hospital washrooms will have a very high level of use throughout the day. And often that use will not be gentle! Regular maintenance will be required to ensure that they perform to the optimum level and continue to satisfy visitors.

Possibly the greatest aid to simple maintenance is the walk in duct. Hiding pipe work makes for an attractive, vandal resistant and hygienic washroom, it also enables regular maintenance to be carried out easily as all services are quickly accessible. If a service duct is not practical a panel system that supports the sanitary item and creates a 'duct' space behind it is an excellent cost effective alternative.

If something does break down, are replacement parts available? A comprehensive back-up service is key to a proficient maintenance programme, a reassurance the client may not need at handover but will value as they maintain their washroom.



Q: how can hospital sanitary facilities be made water efficient? and how will it benefit the client?

A: by selecting water saving products that comply with HTM 64 and designing within relevant BREEAM guidelines where possible.



BMA labelling scheme

Bathroom Manufacturers Association (BMA) labelling scheme.

The aim of the Scheme is to help you easily identify water efficient products that when installed and used correctly use less water than other products available on the market.



Flow Regulators can halve the amount of water wasted from basin mixers



Contour 21 Rimless WC's only require 4.5 litres of water to flush



HygenIQ Contour Urinal has a patented 'fin splash back by over 90%.

14 // Water saving

A typical hospital will use 1,460 litres of water each year for every square meter of floor space¹. Almost 55% of water used within a hospital will be used in sanitary facilities². Saving water therefore makes good sense for both environmental and financial reasons.

HTM 64 is prescriptive in the product choices available within clinical patient and medical areas, limiting the specifier to 'hospital pattern' products. However within these limits the designer is able to influence shut-off push taps may be used to reduce water usage by attention to peripheral issues such as water pressure rates, supply to taps left running by careless users. These management and temperature control. By contrast the 'general pattern' areas within HTM 64 provide more latitude for the designer as they relate to staff and visitor areas; traditional washrooms rather than medical rooms.

All hospital sanitary facilities, whether clinical or public, have the potential to save money and natural resources by sound product specification and building management.

Water saving

The Environment Agency estimates that water consumption, and their water bills, by around 40%. For a hospital this is obviously a massive benefit, and one that can be realised without compromising hygiene, infection control or patient care.

Taps

Almost 25% of all the water used in a typical hospital washroom comes out of taps and mixers³. A tap with a flow of 12 litres per minute which is used a 100 times a day for 20 seconds each time will use close to 400 litres of water each day. By specifying a tap with a flow rate regulator the Environment Agency has measured up to an 80% reduction in this figure.

Alternatively, electronic sensor taps or timed water use by 15% and prevent wastage due products are particularly suitable in hospitals where an attitude of 'I'm not paying the water bill so why do I care?' may be prevalent.

Urinals

The installation of urinals instead of WCs in male washrooms will immediately save water compared with the same number of WCs. Despite this, urinals still account for over 10% of water usage in most hospital sanitary facilities. Recent developments in waterless urinal technology can reduce this figure to virtually zero – a urinal that does not flush simply does not use water!

Current Water Supply (Fittings) regulations 1999 call for a flush control device to be used that stops traditional urinals flushing most buildings in the UK can easily reduce when the washroom has not been used for a prescribed time.

Each urinal in an uncontrolled washroom will use 900 litres of water per day.

A flush management device, when installed and maintained properly can reduce the volume of water used by 74%.

WCs

Responsible for 45% of water usage in hospital sanitary facilities, an efficient WC can reduce the water volume flushed each day by almost half. Dual flush WC cisterns can be used in washrooms provided their operation is simple and clear instructions are posted close by. The small flush of a typical dual flush toilet is around 2/3rds of the full 6 litre flush and therefore provides an automatic saving of 2 litres per use. The Armitage Shanks range of Contour 21 WC's exceed even this saving; they all feature a 4.5 litre and 3 litre dual flush. Correct usage and maintenance are necessary to realise the water savings of this technology. Their use should therefore be considered on an area-by-area basis.

Showers

once set.

Building Research Establishment tests have determined that a flow rate of 10 litres/minute is acceptable to most users. This can be achieved in mains pressure or pumped systems by using flowmodifying devices either in the mixed water supply or at the showerhead to introduce air or create finer water drops. Users will still perceive the shower as a power-shower but the flow rate will be halved and water usage reduced.

Many of the products shown in this brochure fall within the

key points at a glance

- Hospitals use 1,460 litres of water per square meter of floor per year
- 55% of water used within a hospital is used in sanitary facilities
- Careful product choice can reduce water consumption by around 40%
- BREEAM assesses the environmental friendliness of buildings

Hospital staff showers can have a massive impact on a facilities water usage. While some domestic showers may use only 17 litres during a five-minute shower, power showers can use 75 litres. For comparison an average bath uses around 80 litres. Despite this wide variation there is no agreed definition of a 'water saving shower'. Current best practice focuses on managing user behaviour and flow rates.

The thermostatic mixing valve is by far the most water efficient shower valve. It allows the user to set a temperature based on previous experience and its separate flow control enables the flow to be reduced or interrupted safely and easily. In contrast the simple hot and cold tap mixer requires a water consuming period of trial and error to set a comfortable temperature and discourages water saving flow reduction

BREEAM

You've designed a washroom that is water efficient, but how is that judged and by whom? The Building Research Establishment set up BREEAM (Building Research Establishment Environmental Assessment Method) as a way to assess the environmental friendliness of buildings As the worlds longest established and most widely used assessment scheme, it 'sets the standard for best practice in sustainable development' and measures each buildings level of achievement. Over 65,000 buildings in the UK have already achieved BREEAM certification and a further 270,000 have registered for assessment.

BREEAM's remit goes far beyond simple water saving, it addresses energy usage, material suitability, occupier comfort and many other environmental impacts.

The benefits of creating and using a BREEAM building extend to both de and client. The client receives a building that supports a corporate environmental strategy, that is a better place to visit The designer can clearly demonstrate compliance with environmental requirements and has the satisfaction of working to a formalised best practice

Within the BREEAM programme there is presently not a section dedicated to assessing healthcare facilities. However, the Bespoke section caters for any building that falls outside the standard BREEAM categories. The Buildings Research Establishment will prepare design assessment criteria specific to an individual project that, once agreed with the desig team, will detail the issues to be assess at the certification stage, thereby providing guidance during design and construction.

Q: what is the UK government doing to encourage water saving?

A: DEFRA, the body responsible for water conservation in the UK, tests, identifies and promotes water efficient products.

defra Department for Environment Food and Bural Affairs

In the March 2001 Budget Report the Chancellor announced increased support for organisations that invest in environmentally friendly technologies. Key to this new policy was the introduction of the Water Technology List.

The Water Technology List was published in 2003 following lengthy consultation between the Department for Environment, Food and Rural Affairs (DEFRA) and HM Revenue & Customs. The WTL, which is available on the web (www.eca-water.gov.uk) and updated monthly, describes the products and practices that DEFRA believe will make a positive impact on water saving within any organisation. The list is a statutory document supported by a Treasury Order.

The UK has less water available per person than any other EU country, with the exception of Belgium and Cyprus. London is 'drier' than Istanbul and the southeast has less water available per capita than the Sudan.

By selecting sanitaryware products from the WTL your design could contribute to potential water savings of up to 50% per annum for your client, according to Environmental Agency research.

Many organisations can claim a 100% first year tax allowance on products chosen from the Water Technology List.

Q: can a hospital gain tax benefits from the enhanced capital allowance scheme?

A: probably not, but some healthcare facilities may be able to.

Q: apart from reduced water bills, are there other financial incentives for my client?

A: yes, many organisations will be rewarded for using WTL products via the tax system.

Local Authority hospitals are typically not profit making organisations and as a result they are not able to claim tax relief under the ECA.

However, hospitals that are run as a Trust and undertake fundraising trading activities may be able to gain tax relief on any profits made. Similarly, any hospital that is run as a Charity is liable for corporation tax and may therefore also receive tax relief on any profitable activity. The tax liability of any individual hospital and it's access to ECA's is beyond the scope of this Essential Specifiers Guide. It is recommended that any client hoping to benefit from the Enhanced Capital Allowance Scheme consult HM Revenue & Customs. The Enhanced Capital Allowance (ECA) scheme works in conjunction with the Water Technology List. A commercial operation can claim 100% first year capital allowances on investments in water efficient products chosen from the List. Organisations can write off the entire cost against the taxable profits of the period in which they make the purchase.

For example, an organisation purchases $\pounds1000$ worth of sanitaryware and fittings from the Water Technology List. It can then claim a 100% Enhanced Capital Allowance and thereby reduce its taxable profit by $\pounds1000$. Assuming tax on profit is paid at a 30% rate the organisation will pay £300 less tax in the period.

Water technology list product £750

Installation £1250

*Not applicable in Republic of Ireland.

key points at a glance

- DEFRA and HM Revenue & Customs are working to promote water economy
- Products on the Water Technology List are proven to save water
- An organisation that pays tax can claim the allowance against profits
- Any hospital will benefit from improved water saving and lower utility bills

In the year of purchase the ECA provides a £30 tax reduction for every £100 spent on approved water saving products and their installation.*

The ECA is effectively a short-term cash flow boost, bringing forward tax relief so that the entire cost of a purchase can be set against the profits in the year of purchase.

Any organisation that pays UK corporation tax or income tax can claim an ECA on the purchase, transport and installation costs of designated water saving products featured on the Water Technology List.

Total cost £2000

100% first year enhanced capital allowance can be offset against profit

Organisations that pay 30% corporation tax will save 30% of the total cost

£600 SAVING*

The Royal London Hospital Everything about our National Health Service is on a grand scale. It is the largest organisation in Europe: in a typical week, more than 800,000 people will be treated in NHS hospital outpatient clinics, over 10,000 babies will be delivered by the NHS, and NHS surgeons will perform around 1,200 hip operations, 3,000 heart operations and 1,050 kidney operations.



case study:

the royal london hospital

reducing the spread of infection in hospitals is a critical task. armitage shanks taps and basins recently fitted in the alexander wing of the royal london hospital are playing their part in helping to defeat this aggressive enemy.

And, although over 1.4 million people get treated at home by NHS staff each week, it is inevitable that for some a hospital stay will be on the cards – one of the reasons that a major new hospital building and refurbishment programme is under way. Britain's largest Private Finance Initiative (PFI) hospital project, with a budget of £1.1 billion and a ten-year programme, is the transformation of healthcare facilities at the St Bartholomew's and Royal London hospitals.

The Alexander Wing in the Royal London hospital has just been fitted with 32 new en-suite bathrooms and wash stations, part of a '100 bed enabling project', featuring products from the HTM 64 compliant Armitage Shanks range. Although just a small part of the 'Bart's Scheme', as the development is referred to, the Alexander Wing provides a good example of the high standard of equipment being used throughout the project.

In redeveloping the Alexander Wing the aim was to provide personal hygiene facilities that would be long lasting, easy to maintain and user friendly. Architects HOK worked carefully with the project contractors to make the en-suite bathrooms attractive as well as practical, specifying high quality Armitage Shanks ceramics which have a lifespan that exceeds the hospital refurbishment cycle.

'the laminate panels can be removed when maintenance is needed. almost any colour combination is possible, obviously we stayed within the current disability discrimination act guidelines concerning colour contrast'.





'in these sort of high use areas it makes sense to use a quality product rather than a cheaper import'. Infection control was never far from the minds of the design and installation team and products were selected with this factor in mind. One of the simplest ways to transfer bacteria is by the humble tap or mixer. The new Markwik range reduces contact transmission by eliminating the places where bacteria hide.

Contact of any kind can be prevented if a mixer with either a proximity sensor or a time flow sensor is fitted. The proximity sensor is activated by the users deliberate hand movement within the range of its sensor. It switches off the water when hand movement stops or moves out of sensor range, this is particularly effective in areas where water saving is important. With the time flow sensor which is similarly activated by moving a hand over the sensor, the water will flow for a predetermined length of time, set when installing the equipment. This is particularly suitable for clinical scrub up areas.

Armitage Shanks Contour basins are being used throughout the 'Bart's Scheme'. And, as with the Markwik mixers they are often paired with, they have been designed to reduce the opportunities of cross-infection. Contour basins have no tapholes so brassware has to be wall mounted, this uncluttered design makes the basin very easy to clean. Similarly, the lack of overflow and chain stay holes eliminates two areas that could harbour germs. Contour's back outlet design also has hygiene benefits; firstly that no standing water can be held in the basin, secondly, all waste services can be concealed behind panelling or blockwork ducts.

The simple, even old fashioned, message 'Now wash your hands' has become even more important over the last few years with the emergence of MRSA and other 'super-bugs' contracted in hospitals. The design of the brassware and sanitaryware used within a hospital has an important role to play in making our hospitals safer and protecting the lives of staff and patients alike.



standard wc

Suitable only for fully ambulant users, standard WCs typically comprise a toilet and a basin must be located immediately outside.



Figure #1

Figure #2



For complete technical information please call 0870 122 8822

Figure #1 Standard WC without handrinse basin

> Figure #2 Standard WC with handrinse basin

S231401

Portman 21 40cm basin no overflow or chain hole – one right hand taphole.

A4169AA Contour 21 Single lever one taphole sequential thermostatic basin mixer.

S307601 Contour 21 Rimless wall hung WC pan - standard projection.

S4066LJ Contour 21 Top fix toilet seat only in grey. (all products listed above, see left)



S231401 Portman 21

40cm basin no overflow or chain hole – one right hand taphole.

A4169AA

Contour 21 Single lever one taphole sequential thermostatic basin mixer - no waste.

S305701 Contour 21 Raised height rimless back-to-wall WC pan - standard projection.

S4066LJ Contour 21 Top fix toilet seat only in grey with restraint lugs.

S6482LJ 650mm hinged drop down arm support in grey.

S6468LJ Toilet roll holder in grey.

S6454LJ 5 x 600mm grab rails in grey. (all products listed above, see right)

For complete technical

information please call 0870 122 8822

Figure #1 Semi-ambulant accessible WC without handrinse basin

Figure #2 Semi-ambulant WC with handrinse basin

semi-ambulant wc

For those with impaired physical mobility, but who are not wheelchair bound, this design offers a degree of support and reassurance and ample room for the use of a walking stick or frame.

Figure #1

1550 (1650) if inward opening door Coat hool **⊗** Red

Figure #2



independent wheelchair wc

This HBN 40 compliant layout allows wheelchair users easy and safe transfer to the WC and use of the hand-rinse basin whilst seated on the WC.



Portman 21 40cm basin no overflow or chain hole – one right hand

A4169AA Contour 21 Single lever one taphole sequential thermostatic basin mixer – no waste.

S231401

taphole.

S307601 Contour 21 Rimless wall hung WC pan – 70cm projection.

S4066LJ Contour 21 Top fix toilet seat only in grey.

S688467 Back rest cushion.

S6481LJ Contour 21 Back rest rail in grey.

S6482LJ 2 x 650mm Hinged drop down arm support in grey.

L6468LJ Toilet roll holder in grey.

S6454LJ 4 x 600mm grab rails in grey.

S6493LJ 1×600 mm grab rail with 180mm projection in grey. (all products listed above, see left)

S216501 55cm accessible basin. (see right)





----- 500 ------ 470 -----

В

Figure #1



25

assisted wc

are positioned so that the carer can safely help the user.



S225401 Portman 21 50cm basin no overflow right hand taphole.

A4169AA Contour 21 Single lever one taphole sequential thermostatic basin mixer.

S305501 Contour 21 Raised height rimless back to wall wc pan – 70cm projection.

S4066LJ Contour 21 Top fixed toilet seat with retaining buffers in grey.

S688467 Back rest cushion.

S6481LJ Contour 21 Back rest rail in grey.

S6482LJ 2 x hinged drop down arm support in grey.

L6468LJ Toilet roll holder in grey.

S6454LJ 5 x 600mm grab rails in grey. (all products listed, see above)



For complete technical information please call 0870 122 8822



ambulant shower room

In this room, intended for use only by fully ambulant staff or visitors who will be at minimal risk when showering or changing, a shower tray and/or shower cubicle is acceptable.





A4129AA

Contour 21 Built in sequential shower mixer with 120mm long lever.

L7104AA Shower handset.

E4745AA

Shower hose.

S6477LJ Adjustable handset holder.

L6919AA Shower diverter.

E4705AA Shower wall elbow. S6632XK Shower seat in grey.

S9313AA Anti vandal shower fixed

shower head. S6454LJ 3 x 600mmm grab

rails in grey. S6751AC Shower curtain rail.

S675001

Shower curtain. (all products listed above, see left).

For complete technical information please call 0870 122 8822

Figure #1



Figure #2



The use of a shower tray is acceptable in ambulant shower rooms.

Figure #1 Side elevation of a standard shower room – without toilet

Figure #2 Overhead elevation of a standard shower room – without toilet

semi-ambulant shower room

When an additional element of support is needed this room features continuous handrails to aid the visually impaired and is designed so that users can reach two walls or grab rails to help maintain balance.



A4129AA Contour 21

Built in sequential shower mixer with 120mm long lever.

L7104AA Shower handset.

E4745AA Shower hose.

S6477LJ Adjustable handset holder.

L6919AA Shower diverter.

E4705AA Shower wall elbow.

S6632XK Shower seat in grey.

S9313AA Anti vandal shower fixed shower head. (all products listed above, see left).



information please call 0870 122 8822



The use of a shower tray is acceptable in ambulant shower rooms.

S225401 Portman 21 50cm basin no

overflow right hand taphole.

A4169AA Contour 21 Single lever one taphole sequential thermostatic basin mixer.

S305701 Contour 21 Raised height rimless wc pan standard projection.

S4066LJ Contour 21

Top fix toilet seat with retaining buffers in grey. S6482LJ

1 x hinged drop down arm support in grey.

S6468LJ Toilet roll holder in grey. S6454LJ 7 x 600mm grab rails in grey.

S6493LJ

1 x 600mm grab rail with 180mm projection, in grey. (all products listed above, see above).







independent wheelchair shower room

Safety and the protection of dignity are at the heart of this shower room. The provision of grab rails, a shower curtain and a shower seat ensure the patient can shower effectively.



S231401

Portman 21 40cm basin no overflow or chain hole – right hand taphole.

A4169AA

Contour 21 single lever one taphole sequential thermostatic basin mixer.

S307601 Contour 21 wall hung rimless wc pan – standard projection.

S4066LJ Contour 21 top fix toilet seat with retaining buffers in grey.

S6482LJ 1 x hinged drop down arm support.

S6468LJ Toilet roll holder.

S688467 Back rest cushion.

S6481LJ Contour 21 back rest rail in grey.

A4129AA Contour 21 built in sequential shower mixer with 120mm long lever.

L7104AA Shower handset.

E4745AA Shower hose.

S6477LJ Adjustable handset holder. L6919AA

Shower diverter.

E4705AA

Shower wall elbow. S6632XK

Shower seat in grey. S9313AA

Anti vandal shower fixed shower head.

S6454LJ 7 x 600mmm grab rails.

S6493LJ 1 x 600mm grab rail with 180mm projection.

S6751AC Shower curtain rail.

S675001 Shower curtain.





assisted shower room

This layout allows hospital staff to assist their patient from two sides of the shower area. HBN 40 recommends that a wheelchair accessible WC and basin are included within the room as well. The design is also suitable for an en-suite facility in a patient's room.



For complete technical information please call 0870 122 8822



Figure #1 Assisted shower room S305501 Contour 21 Raised height rimless back-to-wall

WC pan – 70cm projection. S406636

Contour 21 Top fix toilet seat only in blue.

S648136 Back rest rail in blue.

S648236 2 x 650mm hinged drop down arm support in blue.

S646836 Toilet roll holder in blue.

S645436 6 x 600mm grab rails in blue.

S225401 Portman 21 50cm basin no overflow right hand taphole.

A4169AA Contour 21 Single lever one taphole sequential thermostatic basin mixer. (all products listed above, see left)

A4129AA Contour 21 Built in thermostatic sequential shower mixer, with 120mm long lever.

S672536 450mm handset grab rail in blue.

S6477LJ Easy adjust handset holder in blue.

L6919AA Shower diverter.

S6751AC Shower curtain rail.

S675001 Shower curtain.

E4705AA Shower wall elbow.

E4745AA Shower hose.

L7104AA Shower handset.

S9313AA Anti vandal fixed shower head. (all products listed above, see right)





semi-ambulant bathroom

This general-purpose room provides changing and dressing, bathing, washing and toilet facilities for those who have independent, but limited movement.





For complete technical information please call 0870 122 8822

A4135AA

Contour 21 Wall mounted thermostatic bath mixer. A single lever provides sequential control of water flow and temperature.

S225401 Portman 21 50cm basin no overflow right hand taphole.

A4169AA Contour 21

Single lever one taphole sequential thermostatic basin mixer – no waste.

S305701 Contour 21 Raised height rimless back-to-wall WC pan -

standard projection.

S406636 Contour 21 Top fix toilet seat only in blue.

S169901 650mm hinged drop Nisa steel bath 1700 x 700mm set down arm support at 480mm height.

Toilet roll holder in blue. S645436

7 x 600mm grab rails in blue.

in blue.

S646836

(all products listed, see above)



S647236 Contour 21 Cranked grab rail in blue. (all products listed, see above)

independent wheelchair accessible bathroom

The space and ergonomics of this washroom enable the wheelchair user to wash and bathe themselves with efficiency and safety. The hand-rinse basin can be used from the WC and the washbasin is positioned at a wheelchair friendly height.







S225401 Portman 21 50cm basin no overflow one right hand taphole.

A4169AA

Contour 21 Single lever one taphole sequential thermostatic basin mixer – no waste. (all products listed, see above) S231401 Portman 21 40cm basin no overflow or chain hole – one right hand taphole.

A4169AA

Contour 21 Single lever one taphole sequential thermostatic basin mixer – no waste.

S305501 Contour 21 Raised height rimless back-to-wall WC pan – 70cm projection.

S406636 Contour 21 Top fix toilet seat only in blue.

S688467

38 // Independent wheelchair accessible bathroom

Back rest cushion.

S648136 Contour 21 Back rest rail in blue.

S6632XK Shower seat in grey.

S169901 Nisa steel bath 1700 x 700mm set at 480mm height.

A4135AA

Contour 21 Wall mounted thermostatic bath mixer. A single lever provides sequential control of water flow and temperature.

S647236 Contour 21 Cranked grab rail in blue.

S648236 2 x 650mm hinged drop down arm support in blue.

S646836 Toilet roll holder in blue.

S645436 7 x 600mm grab rails in blue. (all products listed, see above)

assisted bathroom

The centrally located variable height bath promotes easy access for wheelchair users and their carers. The open floor space is invaluable if patient transfer hoists are necessary.



S305501

Contour 21 Raised height rimless back-to-wall WC pan – 70cm projection.

S406636 Contour 21 Top fix toilet seat only in blue.

S648236 2 x 650mm hinged drop down arm support in blue.

S645436 6 x 600mm grab rails in blue. (all products listed, see diagram left).

The specialised high/low bath not specified by Armitage Shanks.

For complete technical information please call 0870 122 8822







janitorial unit JU

An invaluable aid to infection control. This all in one stainless steel unit features a cleaners sink with bucket grating and a hand rinse basin and mixer.

clinical procedure disposal units DU H

Available either left or right handed the Stirling slop using a powerful flush from a concealed cistern.

plaster sinks PS H

For complete technical information please call 0870 122 8822

S6509MY Janitorial unit in stainless steel (above).

B2809AA Monoblock mixer with swivel nozzle and lever handles (above).

S6511MY Stirling left hand slop hopper in stainless steel

(above). S8270AA Markwik lever action bib taps (above).

S8347AA 100mm extension (above).

S8336AA 1/2'' wall mount for concealed plumbing (above).

For complete technical information please call 0870 122 8822

S6531MY Clyde left hand plaster sink and work surface in stainless steel (above).

S8270AA Markwik lever action bib taps (above).

S8336AA (above).

A hardwearing stainless steel unit with an integral sump accommodating a special, user serviceable, strainer to prevent plaster waste blocking the drain.

Close up view showing sump strainer, etc.

S8347AA

100mm extension. (above).

1/2" wall mount for concealed plumbing

scrub-up troughs SU H

Nowhere is hygiene more critical than the operating theatre. A choice of one, two or three person Firth troughs ensure that a surgeon's preparation proceeds quickly and effectively.

For complete technical information please call 0870 122 8822

52000IVI I	S2860MY	
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240cm Firth scrub up trough with right hand outlet (above).

A4555AA

Markwik wall mounted thermostatic mixer with timed flow sensor (above).

waste		
	Left hand	Right hand
240cm	S2858MY	S2860MY
160cm	S2854MY	S2856MY
80cm	S2850MY	S2852MY

The demands of clinical procedures are met by number and position of bowl and drainer offered.

For complete technical information please call 0870 122 8822

S5841MY Doon sink, single bowl

overflow (above).

S8347AA with right hand drainer, (above). no tapholes and no

S8336AA

S8270AA Markwik lever action bib taps (above).

100mm extension.

1/2" wall mount for concealed plumbing (above).

46 // Stainless steel

domestic service sinks SK 1 (general pattern)

Intended for use in general domestic service available in either single or double bowl options, both without a drainer.

For complete technical information please call 0870 122 8822

S8265AA Markwik high neck sink pillar taps (above).

clinical basins (hospital pattern) LB H M

Served by a sequential single lever mixer, this Contour 21 basin allows medical staff to wash their hands under running water only. Concealed plumbing and smooth lines provide no place for bacteria to gather.

For complete technical information please call 0870 122 8822

S215501 Contour 21 60cm basin with back outlet, no overflow or tapholes (above).

S215401 Contour 21 50cm basin with back outlet, no overflow or tapholes (not shown).

A4553AA Markwik thermostatic sequential mixer (above).

48 // Basin assemblies for clinical procedures

personal washing basins LB G L/M (general pattern)

While displaying many of the same anti-infection user the option of washing in a reservoir of water.

For complete technical information please call 0870 122 8822

S225401

Portman 21 50cm basin without overflow and chain hole - one right hand taphole (above).

A4169AA

Contour 21 Single lever one taphole sequential thermostatic basin mixer – no waste (above).

hand-rinse basins LB G S (general pattern)

Often used in public areas of a hospital, this assembly provides simple hand rinsing under running water for non-clinical users.

For complete technical information please call 0870 122 8822

S231401

Portman 21 40cm basin no overflow or chain hole - one right hand taphole (above).

A4169AA Contour 21 Single lever one taphole sequential thermostatic basin mixer – no waste (above).

urinals (hospital pattern 1)

The Contour urinal is designed to be hygienic. It's smooth profile conceals the flushing inlet and waste trap, ensuring the highest standards of protection from infection carrying bacteria.

Aridian does not use water to flush itself. A replaceable cartridge prevents odour and normal cleaning keeps the bowl clean. And it has the potential to save almost 160 thousand litres of water per year.

S611001 Contour urinal (above).

S6286AA Back inlet spreader (above).

For complete technical information please call 0870 122 8822

S632101 Aridian waterless urinal (above). S612001 Vitreous china division (above).

urinals hygienIQ

hygienIQ's central fin reduces urine splash back by up to 90%. Urine hitting the fin's leading edge is directed either side without splashing, while any hitting either side of the fin clings to the bowl.

S611901 Contour hygenIQ urinal (above).

S6286AA Back inlet spreader (above).

A4856AA Sensorflow 21 urinal flush valve - panel mounted (above).

hospital ceramics overview

Armitage Shanks

the healthcare industries leading sanitaryware is manufactured at europe's most modern bathroom factory near to rugeley in staffordshire.

The vitreous china used is a blend of white burning clays and fine minerals which after firing has a 99.5% vitreousity. Even when unglazed the product cannot be contaminated by bacteria. A non-crazing impervious vitreous glaze ensures full compliance with BS3402 and supports the very highest standards of hygiene.

name	description and features	usage
Contour 21 50cm basin with back outlet, no overflow or tapholes. Code: S215401	 Hospital pattern washbasin for clinical use. Large basin, for use with wall mounted mixer. Concealed supply and waste minimise bacteria traps. Non reservoir basin improves hygiene. 	The Contour 21 basin allows medical staff to wash their hands under running water only. It's concealed plumbing and smooth lines provide no place for bacteria to gather.
Contour 21 60cm basin with back outlet, no overflow or tapholes. Code: S215501	 Hospital pattern washbasin for clinical use. Large basin, for use with wall mounted mixer. Concealed supply and waste minimise bacteria traps. Non reservoir basin improves hygiene. 	The Contour 21 basin allows medical staff to wash their hands and scrub up under running water only. It's concealed plumbing and smooth lines provide no place for bacteria to gather.
Portman 21 40cm basin, no overflow or chain hole – one right hand taphole. Code: S231401	 General pattern washbasin for non-clinical use. Small compact size. Exposed supply and waste for easy maintenance. Smooth easy to clean shape. 	In addition to many anti-infection features, the general pattern Portman 21 allows the user to wash under running water.

name	description and features	usage		name	description and features	usage
Portman 21 50cm basin, no overflow or chain hole – one right hand taphole. Code: S225401	 General pattern washbasin for non-clinical use. Medium size for extra washing capacity. Exposed supply and waste for easy maintenance. Smooth easy to clean shape. 	In addition to many anti-infection features, the general pattern Portman 21 allows the user the option of washing in a reservoir of water.		Contour 21 Rimless wall hung WC pan – standard projection. Code: S305701	 Hospital pattern WC for clinical use. Rimless design eliminates potential bacteria hot spot. Wall hung for easier floor cleaning. Concealed cistern minimises projection into the room. 4.5 litre water saving flush. 	The Contour 21 WC is suitable for use by ambulant and disabled ambulant users in a range of clinical environments.
Portman 21 60cm basin, no overflow or chain hole – one right hand taphole. Code: S229801	 General pattern washbasin for non-clinical use. Medium size for extra washing capacity. Exposed supply and waste for easy maintenance. Smooth easy to clean shape. 	In addition to many anti-infection features, the general pattern Portman 21 allows the user the option of washing in a reservoir of water.		Contour 21 Rimless wall hung WC pan – 70cm projection. Code: S307701	 Hospital pattern WC for clinical use. Rimless design eliminates potential bacteria hot spot. Padded back support for improved comfort. Easier transfer from wheelchair to WC. 4.5 litre water saving flush. 	The extended projection Contour 21 WC is designed primarily for use by wheelchair users in a range of clinical environments.
Contour 21 55cm accessible basin – one centre taphole. Code: S216501	 General pattern washbasin for non-clinical use. Small compact size. Exposed supply and waste for easy maintenance. Smooth easy to clean shape. 	The extended projection of the Contour 21 wheelchair accessible basin ensures that disabled users can effectively wash without discomfort.		Contour 21 Raised height rimless back-to-wall WC pan – standard projection. Code: S305701	 Hospital pattern WC for clinical use. Rimless design eliminates potential bacteria hot spot. Floor mounted, 46cm high for disabled users. Concealed cistern minimises projection into the room. 4.5 litre water saving flush. 	The Contour 21 WC is suitable for use by ambulant and disabled ambulant users in a range of clinical environments.
Contour 21 60cm accessible basin – one centre taphole. Code: S216801	 General pattern washbasin for non-clinical use. Unique design allows use from wheelchair. Exposed supply and waste for easy maintenance. Reservoir design for easy use. 	The extended projection of the Contour 21 wheelchair accessible basin ensures that disabled users can effectively wash without discomfort.		Contour 21 Raised height rimless back-to-wall WC pan – 70cm projection. Code: S305501	 Hospital pattern WC for clinical use. Rimless design eliminates potential bacteria hot spot. Floor mounted, 46cm high for disabled users. Easier transfer from wheelchair to WC. 4.5 litre water saving flush. 	The extended projection, extended height Contour 21 WC is designed primarily for use by wheelchair users in a range of clinical environments.

hospital brassware

infection control has recently become a renewed healthcare priority and the new markwik range of fittings was developed with this in mind.

Markwik specialist healthcare mixers are simply the mixers of choice for the NHS. This extensive selection of new fittings is fully compliant with the latest requirements of HFN 30, HTM 04 and HTM 64. These documents define sanitary equipment in the modern hospital. These fittings meet that definition and more.

- Horizontal spout, provides no opportunity for standing water
- Sterilisation feature allows the fitting to be flushed and disinfected
- Front mounting means that maintenance can be done easily
- Basin mounting option simplifies retro fitting during refurbishment

Markwik mounted thermost Code: A48

:3:

name	description and features	usage
Markwik 21 deck mounted sequential thermostatic mixer. Code: A4803AA	 Suitable for 15mm copper. Can be easily retro fitted on existing basins and sinks with 200mm tap centres. Easy access for maintenance. No need to remove panels. Horizontal spout. Cleansing feature. Insulate technology keeps fittings at body temperature and therefore safe. 	Retro fit on basins and sinks with 200mm centres.
Markwik 21 thermostatic sequential mixer. Code: A4553AA	 Suitable for 15mm copper. Single lever operation with large easy to use lever. 200mm tap centres. Easy access for maintenance. No need to remove panels. Horizontal spout. Cleansing feature. Insulate technology keeps fittings at body temperature and therefore safe. 	Medical or nursing procedures. For use on basins in dirty utility, clean utility, consulting, treatment room, wards. For use on troughs in scrub up areas.
Markwik 21 electronic thermostatic mixer with proximity sensor. Code: A4554AA	 Suitable for 15mm copper. Sensor operated means no hand touch. 200mm tap centres. Easy access for maintenance. No need to remove panels. Horizontal spout. Cleansing feature. Insulate technology keeps fittings at body temperature and therefore safe. 	Medical or nursing procedures. For use on troughs in scrub up areas.

name	description and features	usage
Markwik 21 electronic thermostatic mixer with time flow sensor. Code: A4555AA	 Suitable for 15mm copper. Sensor operated means no hand touch. 200mm tap centres. Easy access for maintenance. No need to remove panels. Horizontal spout. Cleansing feature. Insulate technology keeps fittings at body temperature and therefore safe. 	Medical or nursing procedures. For use on troughs in scrub up areas.
Markwik high neck sink pillar taps. Code: S8265AA	 Deck mounted chrome plated taps with 15cm levers. Suitable for closed fist operation. 	For use on all sinks in kitchen, pantry, slop sink, plaster sinks etc.
Markwik 21 lever action bib taps. Code: S8270AA	 Wall mounted chrome plated taps with 15cm levers. Suitable for closed fist operation. HTM 64 TB H1. 	For use on all sinks in kitchen, pantry, slop sink, plaster sinks etc.

name	description and features	usage
Nuastyle pillar taps. Code: B8262AA	 Suitable for 15mm copper. Deck mounted chrome plated brass taps with anti vandal indices. Particularly suitable for contract use. Suitable for closed fist operation. HTM 64 TP5. 	For use in en suites, bathrooms, staff areas and public areas.
Contour 21 wall mounted thermostatic bath mixer. Code: A4135AA	 Single easy turn lever Sequential operation. To ensure system hygiene and user safety the water is always drawn from first cold and then the hot supply. 150mm tap centres. Built in thermostat. 	For use with baths.
Contour 21 single lever one taphole sequential thermostatic basin mixer – no waste with copper tails. Code: A4169AA	 Basin mixer with extended easy use lever particularly suitable for closed fist operation. Suitable for healthcare and less abled bathrooms. HTM 64 TP6. Integral thermostat set at 41°C. Sequential operation. To ensure system hygiene and user safety the water is always drawn from first cold and then the hot supply. Can be fitted in standard pillar taps hole. 	For use with general pattern basins in public areas, off ward assisted WC and Part M.
Sterilisation kit for Markwik thermostatic taps. Code: S8239NU Markwik 21 purging kit for healthcare thermostatic mixers	 Built in cleansing feature. Bridging hose connects hot and cold water inlets. Tap can be hot water flushed, killing bacteria. Flushes debris after installation. Purging cartridge replaces maintenance cartridge 	To thermally disinfect new Markwik mixer taps.
Code: A4556AA	 Maintenance cannuge. Mixer can be flushed without affecting thermostat. 	

hospital brassware

to fully address the needs of modern healthcare facilities, 'brassware' must mean more than simply taps and mixers.

thermostatic shower with mounting box

TMV3 (type 3) approved, this single lever thermostatic shower valve significantly reduces the cost and complexity of installation. The valve is pre-plumbed into it's own stainless steel service box which is easily fitted into either block work or panel walls.

name	description and features	usage
Contour 21 built in thermostatic sequential shower. Code: A4129AA	 Suitable for 15mm copper. Built in sequential shower. Built in thermostat. 120mm long lever suitable for closed fist operation. Safety temperature stop. Sequential operation. To ensure system hygiene and user safety the water is always drawn from first cold and then the hot supply. 	For use in shower areas.
Nuastyle 1/2" under basin thermostatic valve. Code: S7435AA	 Suitable for 15mm copper. Automatic shut off if cold supply fails. Multi-point usage. Precise temperature control. Anti tamper shield. TMV3 scheme approved. Suitable for 2 taphole basins. 	Designed to be positioned under basin, bidet or bath immediately below the hot water inlet.
Nuastyle ³ /4" under bath thermostatic valve. Code: S7436AA	 Suitable for 22mm copper. Automatic shut off if cold supply fails. Multi-point usage. Precise temperature control. Anti tamper shield. TMV3 scheme approved. 	Designed to be positioned under basin, bidet or bath immediately below the hot water inlet.

Thermostatic shower and mounting box.

Code: S6933MY Stainless Steel S6933AC White

Features and benefits

- Suitable for 15mm copper.
- Automatic shut off if cold water supply fails Ensures safe usage, preventing accidental scalding.
- Mounting box for easier installation Suitable for 'first fix' fitting before units are finished. The shower can be plumbed from the top or bottom of the mounting box.
- Easy access for maintenance
 The design of the mounting box means it is easy to remove, providing easy access to the plumbing.
- High quality fixings and robust build The shower uses a high quality Trevi CTV shower valve. High resistance against vandalism makes the shower suitable for use in public place.

HTM 64 TM1 fitting For complete technical information please call 0870 122 8822

part m

An Approved Document is one issued by the Secretary of State 'for the purpose of providing practical guidance' to the Building regulations. Approved Document M addresses 'Access to and use of buildings'. In particular it deals with the requirements of Part M of schedule 1 of the Building Regulations.

key points at a glance

- All public buildings are legally required to provide disabled toilet facilities
- Part M and the Disability Discrimination Act are directly linked
- Anyone who is disabled or temporarily impaired must be catered for

HBN 00-02 applies in clinical areas, not Part M

Until recently Part M referred to, and was seen as specific to, 'disabled people'. The 2004 edition promoted a more inclusive approach to building design so that the needs of all people are accommodated.

In 2004 the Disability Discrimination Act addressed the issue of providing access to buildings. It requires that every organisation takes reasonable steps to ensure those with a disability have equal access to their premises and facilities. Part M therefore has a direct linkage to the Disability Discrimination Act and the relationship between the two is addressed in the 'Use of Guidance' section of Approved Document M.

Anyone who is permanently, or temporarily, disabled is now within the remit of Part M. This expanded definition is key to the 2004 Disability Discrimination Act. It opens the Act up to include people with long term and obvious physical or mental disabilities, and those whose condition is short term, such as pregnant women, adults with babies or even those carrying heavy bags. Part M only applies in the public areas of a hospital. In the clinical areas HBN 00-02 supersedes Part M and tackles the provision of sanitary facilities for patients in a more aggressive manner. It's fundamental assumption is that the majority of patients will be incapacitated and will therefore need more privacy than normal and may require medical assistance in order to use the facilities. As a result HBN 00-02 calls for a specification beyond Part M and should be used as the guide in all patient and clinical sanitary layouts.

For detailed information and layout proposals please see the Essential Specifier Series guide 'Part M Solutions... What Works and Why'.

62 // Part M

Contour 21 Back-to-wall WC concealed Doc M pack

guarantee

lifetime

all ceramic products

5 years

on taps and mixers, toilet seats and cistern fittings

Our confidence in the quality and reliability of our product allows us to offer outstanding extended guarantees on all our products – where the product fails within 5/25 years/lifetime we offer a free replacement or replacement part (or nearest equivalent). So when your washroom has been satisfactorily installed and is working well, please ensure you register your guarantee.

This guarantee is transferable – it applies to the product not the purchaser provided the guarantee registration is passed on to the new owner.

Liability is limited to individual products and the guarantee does not cover the consequential loss or damage or installation costs. This guarantee does not affect your statutory rights. Products must be installed, used and cared for in line with our fixing instructions and local water regulations, and room must be adequately ventilated. Parts (eg. flushvalves) are guaranteed for five years and will be replaced if found to be faulty. The guarantee does not cover general wear and tear.

Applies to UK and Republic of Ireland only.

You can register for guarantees on a bathroom bought on your behalf by a plumber or builder.

Colours printed in this book are as near as possible to the manufactured range of Armitage Shanks quality bathrooms. For accurate comparisons of colours, see actual ware on display at Armitage Shanks retailers. Our policy is one of continuous improvement and we reserve the right to change specification and design at any time without notice.

All measurements are in millimetres and are approximate. Products can be subject to tolerances due to manufacturing processes.

Additional Resources Further information about the Disability Discrimination Act is available from the

following organisations. Department for Work & Pensions

www.dwp.gov.uk

Disability Rights Commission www.drc-gb.org

Direct Gov www.direct.gov.uk

technical helpline 0870 122 8822

For further information on any of our products;

please call 0870 122 8822

or visit www.thebluebook.co.uk

The bluebook has long been the most comprehensive guide to bathroom and washroom products. Now the bluebook DVD provides an interactive version allowing you to navigate through more than 1250 pages of detailed drawings and specifications instantly. Once installed on your hard drive blue book can be automatically updated with the latest product information every time you go online.

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