Bushboard's Guide to the Department for Education Washroom Regulations

Technical Manual and DfE Pattern Book

bushboard
WASHROOMS THAT WORK

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Department for Education Reference	What it means?	How do Bushboard Washrooms products comply?
Technical Manual 2.7.13 - TOILET & SHOWER CUBICLES		
Provisions		
DfE Pattern Book: Toilet Provision for Students Early Years 3-5 years: 1 toilet for every 10 children Schools 6-18 years: 1 toilet for every 20 pupils SEN Schools 2-19 years: 1 toilet for every 10 pupils Colleges: 1 toilet for every 20 students	The DfE Pattern Book provides standard layout guidance and recommended toilet provision ratios based on pupil age groups, helping ensure sufficient capacity and appropriate distribution across school areas.	Bushboard's bespoke range of education cubicles can support DfE Pattern Book guidance with made to measure dimensions to suit your space. We can advise but ultimately it is up to the architect, contractor or facilities management team in charge of the layout design to ensure there is appropriate provision.
DfE Pattern Book: Toilet Provision for Staff Number of people at work Low (e.g. sports block) - 1 toilet 6-25: 2 toilets 26-50: 3 toilets 51-75: 4 toilets 76-100: 5 toilets	The DfE Pattern Book provides standard layout guidance and recommended toilet provision ratios based on number of staff, helping ensure sufficient capacity and appropriate distribution across school areas.	
DfE Pattern Book: Shower Provision for Students Low Risk of Contact with Dirt (e.g. sports hall) & Low to Medium Physical Activity: 1 shower for every 7 pupils undertaking PE at the same time High Risk of Contact with Dirt (e.g. contact sport on field) & Medium to High Physical Activity: 1 shower for every 4 pupils undertaking PE at the same time	The DfE Pattern Book provides standard layout guidance and recommended shower provision ratios based on risk of contact with dirt or people and the level of intensity of physical activity helping ensure sufficient capacity for showers after a class.	
DfE Pattern Book: Shower Provision for Staff Primary and Special: 1 shower Secondary: 2 showers in separate rooms	The DfE Pattern Book provides standard layout guidance and recommended shower provision ratios based on the school type.	
Material		
Material "Toilet and/or shower partition panels and doors shall be waterproof solid grade laminate (SGL)"	Solid Grade Laminate (SGL) is waterproof and impact resistant, making it ideally suited to education environments where durability and long-term performance are critical requirements.	Bushboard Washrooms' Education range of toilet cubicles and shower cubicles are supplied with Solid Grade Laminate (SGL) construction.
2.7.4 Minimum Life Expectancy "Toilet/shower partition panels and doors: 15 years"	The toilet and shower partition panels and doors should be manufactured and installed to provide a minimum service life expectancy of 15 years under normal use conditions within an educational environment with minimal maintenance requirements.	Bushboard Washrooms' Education range is manufactured from Solid Grade Laminate (SGL), providing a highly durable solution for demanding environments. Our systems are designed to achieve a minimum service life expectancy of 15 years and, under normal use and maintenance conditions, can remain fully functional for 20 years or more.
Visual Contrast Contrasting colour of doors to pilasters in accordance with AD M	The AD M is a document that ensures facilities are accessible for disabled users. LRV (Light Reflectance Value) measures the percentage of light a colour reflects, using this information to choose colours will make sure that it is accessible for partially sighted to differentiate the door and the pilaster to find the entrance to the cubicle.	All Bushboard colours have been given an LRV and can be found in our colour selector brochure or on our website. We recommend a 30-point difference between colour values to create the contrast needed.

Dimensions	**Dimensions** "Standard toilet: Minimum 1500mm deep x 800mm wide (clear, excluding space for IPS). Door shall have a minimum 650mm effective clear width Standard shower: Minimum 1800mm deep x 800mm wide (clear). Door shall have a minimum 650mm effective clear width"	These dimensions are industry standard and are intended to ensure sufficient internal space and usability for the end user. Provision is made for adequate manoeuvring space within the cubicle, including consideration of a minimum 465mm clear turning space between the door swing and WC pan.	Bushboard Washrooms' Education range cubicles can be manufactured to meet these dimensional requirements. Our CAD team provides detailed drawings for client approval prior to manufacture, confirming all dimensions and ensuring compliance with the specified standards.
	Dimensions "Ambulant and enlarged cubicles/rooms including doors: To AD M and BS 8300-2"	Ambulant and enlarged cubicles and rooms, including doors, must be designed in accordance with Approved Document M (AD M) and British Standards 8300-2 to ensure accessibility, safe independent use, and adequate internal space for users with limited mobility.	Bushboard Washrooms' Education range cubicles and doors can be designed and configured to meet the requirements of AD M and BS 8300-2, providing compliant ambulant and enlarged layouts where required.
	DfE Pattern Book In schools, in separate toilets for boys and girls, at least one toilet is provided in accommodation for use by ambulant disabled pupils.	This applies to ages 6-18. According to Approved Doc M, an ambulant disabled toilet cubicle should be a minimum of 800mm wide x 1500mm deep and be fitted with grab rails either side of the toilet. This ensures pupils with limited mobility, such as people who use crutches or have impaired leg movements, can use standard toilet areas safely without needing a fully separate accessible toilet.	Bushboard's bespoke range of education cubicles can support DfE Pattern Book guidance with made to measure dimensions to suit your space. We can advise but ultimately it is up to the architect, contractor or facilities management team in charge of the layout design to ensure there is appropriate provision.
	DfE Pattern Book In schools, in separate toilets for boys and girls, where there are four or more toilets, one of these is an enlarged toilet for use by pupils who need extra space, in addition to any other provision.	This applies to ages 6-18. In Approved Document M, the enlarged toilet cubicle should be 1200mm wide by 1500mm deep with a 640mm wide with horizontal grab rail should be next to the WC and a vertical grab rail on the rear wall. This is for pupils who need the extra space for example large bags etc.	
	DfE Pattern Book On each floor of any school block there shall be a standalone toilet facility provided in a room that can be secured from the inside and is intended for use by one pupil at a time.	This applies to ages 6-18. Each floor must include a single-occupancy WC room that can be locked from the inside. This would require a WC, hand washing and drying facility all contained within the room, this supports inclusive design and reduces pressure on shared toilet areas.	
	DfE Pattern Book In each group of toilets for Reception and Nursery pupils there shall be one wider cubicle to allow staff to give assistance.	There is no sizing given to this, however we would suggest following the enlarged cubicle sizes to allow enough space for child and staff to comfortably move within the cubicle.	
	Early Years Heights "- Partitions to Early Years: Minimum 1200mm - Doors to Early Years: Minimum 1200mm"	Early Years have now changed to minimum required heights. They aim to provide appropriate privacy for young children while still allowing effective supervision by staff. Heights are measured from finished floor level to the top of the panel or door.	Bushboard's Tiny Stuff cubicle range is available with 1350mm to top of door and partition from floor which is suitable for Early Years.
	KS1/Infant Heights "- Partitions to KS1/Infant: Minimum 1500mm - Doors to KS1/Infant: Minimum 1300mm"	The focus on KS1 is improving the privacy of the cubicle as the pupils get older by having minimum door heights.	For KS1 our Kids Stuff range is available with a door height of 1350 or 1650mm and a partition of 1650mm. Both measurements are to the top of the panel including floor clearance.
	KS2/Junior, KS3 & KS4/Secondary, KS5/Post-16 and College Heights "- Partitions to KS2/Junior, KS3 & KS4/Secondary, KS5/Post-16, College and adult provision: Full height unless a minimum of 1950mm is specified in the Project Brief - Doors to KS2/Junior, KS3 & KS4/Secondary, KS5/Post-16, College and adult provision: Full height unless a minimum of 1950mm is specified in the Project Brief"	KS2 and Secondary Schools require even more privacy than younger years. A full height system must be provided with a maximum 5mm gap will comply with Generic Design Brief – 2.3.20.1 (c) and deter the use of mobile phones. School Specific Briefs can choose to not go for a full height system. If so, then certain dimensions must be met to ensure that the pupil is still getting adequate privacy from the toilet cubicle.	HiZone for Schools is Bushboard's full height school toilet cubicle system that is made bespoke to room dimensions. This will offer a 5mm door clearance and the partition to the floor with a privacy skirting creating maximum privacy. We also have our Profiles Kids range which can be supplied at 1950mm for both doors and partitions to meet the minimum requirements.

	Gaps to Toilet Partitions and Doors Where not full height, partitions and doors shall be spaced a maximum of 150mm off finished floor level, or less as specified in the Project Brief	A maximum floor clearance is specified to maintain children's privacy no matter the age group.	Bushboard Washrooms' Education range standard height cubicles are designed with pedestal leg that provides a 100mm floor clearance as standard.
	Gaps to Toilet Partitions and Doors Full height partitions shall have no gaps at all (to top and bottom, and at sides)	Full height partition systems are required for Primary and Secondary Schools to provide complete privacy, separation with no visible gaps around the perimeter of the cubicle construction. The previous regulations stated that the design shall also discourage anti-social behaviour (including mobile phone cameras) and vandalism, we believe this is still one of the key drivers for the privacy requirements.	Bushboard Washrooms' HiZone for Schools toilet cubicle range is fully enclosed using an aluminium channel system, with no visible gaps to the top, bottom, or sides of the partitions after final installation. This ensures complete privacy and compliance.
	Gaps to Toilet Partitions and Doors Full height doors shall have a maximum gap of 5mm between the finished floor level and the bottom of the door, and 5mm between the top of the door and the ceiling or over-panel	Maximum gap tolerances are specified to maintain privacy, security, and safeguarding within full height cubicle installations, while still allowing for smooth door operation.	Bushboard Washrooms' HiZone for Schools cubicle is installed with a door and overpanel configuration. The overpanel is fixed to the ceiling, eliminating the top gap. The door is set with a 5mm floor clearance and overlaps the overpanel at the top when closed, ensuring a fully enclosed installation.
	Gaps to Toilet Partitions and Doors Note: The design shall not restrict full height doors from being lifted off its hinges close to the ceiling or over-panel in an emergency (see 'Hinges to toilet and shower doors' below)	Full height cubicle doors present a design challenge as they are installed very close to the ceiling or over-panel to achieve a fully enclosed system. With only a 5mm clearance gap, it can be difficult to ensure sufficient space for doors to be lifted off their hinges in an emergency. The design must therefore achieve full enclosure while still allowing safe and practical lift-off access when required.	Bushboard's HiZone for Schools range, when fully closed, has the door sitting behind and extending beyond the line of the overpanels and pilasters, eliminating any visible site gap at the top into the cubicle. As the door is positions behind the over panel, it retains full range of motion to be lifted off its hinges. The hinge design is engineered to allow this lift off action, ensuring emergency access is maintained while preserving a fully enclosed installation.
	Gaps to Toilet Partitions and Doors Gaps at the sides of toilet doors (irrespective of height) shall not provide the opportunity for malicious mobile phone use nor create finger traps	Smart phones are now capable of capturing images with a wide angle camera which would show the full interior of a cubicle. Even the slimmest smart phones are over 5mm thick therefore any gaps around each individual cubicle need to be limited to 5mm. This also creates a design challenge, as anti-finger trap requirements still create the need for clearances between the door and pilaster to ensure safe operation without creating entrapment risks. This applies across all education cubicles, as no specific age group is defined within the specification.	Bushboard Washrooms' Education toilet cubicle ranges are designed so that doors are supplied with an integrated privacy strip, which reduces the visible gap between the door and the hinge side while allowing space for the hinge operation and accidental entrapment.
Fittings	**Panels** pre-drilled for fittings. Redundant or accidental drill holes in panels/doors will not be accepted.	Unused or redundant drill holes may create sightlines between cubicles, reducing privacy for users.	All panels are pre-drilled for fittings by our factory team prior to delivery.
	Fittings Anti-rust, tamper proof and vandal resistant.	Plastic fittings are prone to vandalism and so ensuring that the material is strong enough to withstand the use of pupils is important.	Our fittings are powder coated aluminium or satin anodised aluminium which is very strong and will not rust. The powder and anodised coatings protect against corrosion.
	Fittings Feet to partition panel systems shall be mechanically fixed (to both panel system and floor) and not disrupt floor finishes	Using mechanical fixings will give a secure and stable install.	All of our pedestal feet and floor channels are mechanically fixed into the floor and through fixed to the partition to provide secure fixings.

Fittings	**Hinges to Toilet and Shower Doors** To allow inward opening generally with rapid outwards operation or a lift off facility (with/without panel lifters) in the event of an emergency (e.g., should a user requiring prompt emergency action be restricting the door from being opened inwardly) - To fall open inwardly - To eliminate the potential for finger trapping	Cubicle systems must be designed to allow normal inward opening operation while also providing rapid outward opening or lift-off capability in an emergency situation, including where a user may be obstructing the door internally.	Bushboard Washrooms' Education Range toilet cubicles are fitted with hinges that can be configured to allow doors to fall inwardly where required. All systems incorporate an optional retaining screw and, when this is left unfitted, the hinges provide a lift-off function, as detailed within the fitting instructions. This enables doors to be removed quickly in an emergency while still maintaining the privacy requirements appropriate to each age group. The hinge arrangement is also designed to minimise finger trapping risks while maintaining the required 5mm privacy gap through the use of an integrated privacy strip detail.
	Locks to Toilet and Shower Doors - Lockable and opened manually from the inside - Suitable for use by people with impaired manual dexterity (i.e., a closed fist action) - Locks to be through fixed for added strength - Emergency release function via a hexagon/star key (not coin slot) to limit operation to School/College staff only - Lock indicator signs fitted to doors shall clearly display the word 'occupied'. A white/red or green/red indicator is prohibited - Spare locks to be provided to School/College at a ratio of 1:5 of those installed	Cubicle doors should be lockable to provide privacy for pupils. This lock mechanism should be one that can be operated with a simple action and enough surface area to be gripped by those with manual impairments. An emergency release function will allow staff members to access the toilet cubicle if a pupil needs it. For it to be a staff only access this should be in the form of a key that can be kept with authorised staff at all times. This will stop any other pupils or unauthorised staff being able operate the release. This requirement is due to the issue of pupils opening cubicles from the outside when in use by someone else, often to deliberately embarrass the user in a bullying manner. Occupancy indication must be clearly legible and not rely solely on colour coding, ensuring it is accessible to users with visual impairments or colour blindness.	All of our school toilet cubicles come as standard with a satin anodised aluminium locking mechanism that is through fixed for strength. Our locks can be operated with a closed fist and sliding motion. Our faceplate has a hex key emergency release function to limit access to authorised staff only. All Bushboard locks are supplied with both the words 'occupied' and 'vacant' clearly shown and a red and white background as these colours can be differentiated and can therefore be inclusive for everyone.
	Hooks Secret fixed coat hook with rubber buffer on the inside of each door or partition also serving as a doorstop	Each cubicle door or partition must include a coat hook that is securely fixed using a concealed (secret fix) method, meaning the fixing points are hidden and not accessible from the user side. This reduces the risk of tampering or removal. The hook should also include a rubber buffer to protect the door and adjacent surfaces from impact and wear.	Bushboard Washrooms' Education Range is supplied as standard with a coat hook and integrated rubber buffer per cubicle. The fixing screws are concealed beneath a rose cover, providing a secret fix installation to prevent tampering.

Technical Manual 2.7.14 - INTEGRATED PLUMBING SYSTEMS (IPS)

Provision	**Extent** To WCs and urinals generally (in both toilet cubicles and toilet rooms) to conceal cisterns and services Note: Not required where close coupled DOC M pack is used (e.g., in accessible toilets and hygiene rooms)	An Integrated Plumbing System (IPS) must be used to conceal WC cisterns, urinal services and associated pipework from being on show in the washroom to provide a clean finish.	Bushboard Washrooms IPS solutions are designed to fully enclose and conceal pipework and services to sanitaryware.
Material	**Material** Waterproof solid grade laminate (SGL) fixed and hinged/lockable panels fitted to a compatible subframe, all in accordance with manufacturer's recommendations	IPS (Integrated Plumbing System) units must be constructed from waterproof Solid Grade Laminate (SGL) panels and flashgaps. Panels must be secure to a compatible subframe that supports easy maintenance.	Bushboard Washrooms' framed IPS units can be manufactured from waterproof Solid Grade Laminate (SGL) and supplied with integrated flashgaps. All IPS panels are pre-fitted to a galvanised steel subframe, ensuring easy maintenance, durability, and ease of installation.

Installation	**Joints** Straight and level	IPS panel joints must be installed straight, level, and consistently aligned to ensure a neat and professional finish. Correct alignment also helps minimise dirt and debris build-up at joints and supports safe, secure, and long-term installation performance.	Bushboard Washrooms' IPS systems are installed on a galvanised steel subframe with pre-determined fixing slots to ensure accurate panel positioning. Panel alignment brackets are incorporated to maintain straight and level joints, ensuring correct alignment is retained even after access panels are removed and reinstalled for maintenance.
	Floor Junction Fully bonded and sealed	The junction between IPS panels and the finished floor must be fully bonded and sealed to prevent water ingress, dirt build-up, and potential hygiene or maintenance issues.	Bushboard Washrooms' IPS systems are installed with a base rail that provides a continuous, fully sealed base to the units. The base rail is designed to be easily jointed, this approach supports a neat, durable finish and helps prevent water ingress at floor level.
Maintenance	**Access Panels** Hinged and lockable with a master key and tamper proof fittings. Accessible panels to be positioned to facilitate easy inspection and maintenance of the IPS void and concealed building services e.g., drainage, electric and water supply connections	IPS units must include access panels that are both hinged and lockable to ensure safe and controlled access for maintenance of concealed services. The design must allow maintenance to be carried out safely without risk of injury, while also preventing unauthorised access or tampering with internal services.	Bushboard Washrooms' IPS systems are supplied with hinged and lockable access panels designed to provide safe, straightforward access for maintenance of concealed services. Panels open to 90 degrees to support full servicing access while maintaining safe operation and are fitted with tamper-proof locking mechanisms to prevent unauthorised access.

Technical Manual 5.1 SANITARYWARE & ANCILLARIES

Supplier Sourcing	**5.1.6 Product Sourcing** Sanitaryware: Where individual components and fittings are assembled to form a single element of sanitaryware e.g., toilet pan, close coupled cistern, flushing mechanism and fittings forming a single close coupled toilet, all such components and fittings shall be compatible and sourced from the same manufacturer. Where products can be sourced and assembled using components from different manufacturers e.g., countertop taps mounted to a wash trough, the compatibility of these products shall be checked before sourcing and each element fitted in accordance with the respective manufacturer's recommendations.	Sanitaryware systems must be specified and installed as compatible sets to reduce installation issues and avoid failures caused by mismatched components. Where different manufacturers are used, compatibility must be verified and each element installed in line with guidance.	Bushboard's Ready Plumbed Module Systems mean that all sanitaryware and brassware is supplied from one source, being the experts, we verify that items are compatible with each other. This ensures products arrive pre-assembled and ready to install, streamlining installation and reducing issues with multi-supplier coordination or replacements.

Technical Manual 5.1.7 SANITARYWARE - TOILET PANS

Provision	**DfE Pattern Book: WC Provision** Early Years 3-5 years: 1 toilet for every 10 children Schools 6-18 years: 1 toilet for every 20 pupils SEN Schools 2-19 years: 1 toilet for every 10 pupils Colleges: 1 toilet for every 20 students	The DfE Pattern Book provides standard layout guidance and recommended toilet provision ratios based on pupil age groups, helping ensure sufficient capacity and appropriate distribution across school areas.	Bushboard's bespoke cubicle and IPS systems that can support DfE Pattern Book guidance with varying widths available to suit your space. We can advise but ultimately it is up to the architect, contractor or facilities management team in charge of the layout design to ensure there is appropriate provision.
Specification	**Standard** To BS EN 997	BS EN 997 ensures WC pans meet minimum performance standards for flushing efficiency, hygiene, odour control and durability, making them suitable for high-use public environments such as schools.	Bushboard supply WC pans that comply with BS EN 997.
	Type Wall hung or floor mounted. Wall hung preferred for hygiene and cleaning.	WC pans may be specified as wall hung or floor mounted, however wall hung systems are preferred in school environments because they remove contact with the floor, reducing dirt traps and bacteria build-up.	Bushboard offers a range of wall hung and floor mounted WCs. Our IPS duct panels can be supplied with extra support rail to ensure secure fixing for wall hung WCs.
	Material To be Vitreous China to BS 3402	Vitreous China is a ceramic material fired at high temperatures to create a hard, non-porous, glazed surface. BS 3402 sets quality requirements ensuring strength, durability, low water absorption, and resistance to staining, chemicals and heavy daily use.	Our range of WC pans are manufactured in Vitreous China to BS 3402.

	Seats with Lids Full seat ring with lid to BS 1254 and top fitting. Contrasting colour of seat with lid in all accessible toilets and hygiene rooms.	WC seats must comply with BS 1254, ensuring strength, durability and safe load performance under repeated use. Top-fix fittings improve security and reduce movement or loosening in high-traffic environments. In accessible toilets and hygiene rooms, contrasting seat colours are required to improve visual clarity for users with visual impairments, supporting inclusivity.	Bushboard provides WC seats and lids compliant to BS 1254 with secure top-fix fittings. Contrasting colour options are available for accessible toilets and hygiene rooms.
Dimensions	**Heights Above Finished Floor Level** - Early Years: 305mm - Accessible Early Years: 350-355mm - KS1/Infant and KS2/Junior: 350-355mm - KS1/Accessible Infant and KS2/Accessible Junior: 390-410mm - KS3 & KS4/Secondary, KS5/Post-16, College and adult: 390-410mm - Accessible Secondary/College/adult/hygiene room: 480mm	WC pan rim heights must be set to suit user age and mobility, ensuring safe, comfortable and independent use. Lower heights support younger children's ergonomics, while increased heights for older pupils and accessible users improve transfer ease from wheelchairs.	We have a range of WCs on offer with varying heights to comply with the DfE standards.
Cistern Requirements	**5.1.9 Toilet flushing options** - Dual flush with either a 6/4 litre or 4/2.6 litre flush with separate manual push buttons for low and standard volume flush to BS 1125 (not to be used in Special Schools, colleges or Special Colleges) - Touch free, proximity sensor controlled flush to a maximum of 5 litres (preferred, to be used in Special Schools, colleges or Special Colleges)	Flushing systems must be water-efficient while still ensuring effective waste removal. Dual-flush systems allow users to select reduced or full flush volumes to manage water consumption. In special education settings, touch-free sensor flushing is preferred to improve ease of use for those with limited dexterity, with a maximum flush volume of 5 litres to balance performance and sustainability.	We offer a wide range of flushing types with our cisterns, so can accommodate these requirements.
	5.1.9 Cistern Standards - To BS EN 14055 - British Standard flush test in compliance with Water Regulation Guide (WRAS) - UK class 2 flush test to cover any part flush performance in line with BS EN 997 - Regulation 4 of The Water Supply (Water Fittings) Regulations 1999 approved e.g., KIWA, WRAS or NSF approved	These standards ensure cisterns are safe, durable and water efficient. BS EN 14055 covers cistern performance and durability. WRAS / Water Regulations compliance ensures correct fittings to UK water supply to limit contamination to drinking water in the supply network. BS EN 997 Class 2 flush testing confirms effective flush performance with WC pans.	Bushboard supplies cistern systems that meet all of the requirements.
	5.1.9 Cistern Material options - Vitreous China to BS 3402 with lockable lids where exposed either within accessible toilets and hygiene rooms (e.g., part of close coupled DOC M pack) - Plastic to BS EN 14055 to toilets generally, and where concealed behind lockable IPS – see to 2.7.14 Integrated Plumbing Systems (IPS)	Cistern material is specified based on exposure and risk. Vitreous China (BS 3402) is used where cisterns are visible, offering a robust, hygienic and vandal-resistant solution, with lockable lids for safeguarding. Plastic cisterns to BS EN 14055 are used in concealed applications, including within IPS duct systems, providing a lightweight, serviceable option suitable for hidden installation and routine maintenance access.	Bushboard typically offers plastic cisterns for concealed use with our Ready Plumbed IPS panel systems however we can supply options for Vitreous China on request.
	5.1.9 Overflow Internal overflow required to all toilet cisterns	Cisterns must include an internal overflow mechanism that safely diverts excess water back into the flushing system or bowl, preventing leaks, flooding, and water damage if a fill valve fails. This improves safety and reduces maintenance issues.	Bushboard cistern systems can be specified with internal overflow protection to toilet cisterns to support low maintenance operations.

Technical Manual 5.1.8 SANITARYWARE - URINALS

Provision	**Extent** In schools and colleges, these can only be selected for Post 16 and shall be facilitated where specified in the Project Brief	Urinals are generally only for over the age of 16 where stated in the schools brief. This reflects the DfE's preference for privacy, dignity and inclusive toilet provision for younger pupils.	We have a range of offers urinals that can be specified with our Ready Plumbed Module duct panels.
	DfE Pattern Book: Urinal Provision Ratios In male toilets, for Post 16 only, urinals can be provided with the following ratio: 1.5 urinals for every WC pan replaced. Where selected, at least 40% of facilities shall be provided as WC pans.	The DfE Pattern Book provides recommended urinal provision ratios helping to ensure sufficient capacity.	Bushboard's IPS systems that can support DfE Pattern Book guidance with varying widths available to suit your space. We can advise but ultimately it is up to the architect, contractor or facilities management team in charge of the layout design to ensure there is appropriate provision.

	Privacy Screens Coordinated with urinals	Urinal areas should include privacy screening to increase privacy and reduce visibility between users.	Bushboard can supply a ceramic urinal divider or SGL modesty screen, both designed to integrate with urinal layouts.
Specification	**Material Options** - Vitreous China urinal bowls to BS 3402 and BS 5520 - Grade 304 brushed stainless steel urinal trough to BS EN 10088 series	Vitreous China provides a hard, non-porous surface that is easy to clean and resistant to staining, while Grade 304 stainless steel offers excellent corrosion resistance, durability and vandal resistance in demanding washroom settings.	Bushboard can provide urinal solutions in both materials, allowing projects to select the most appropriate option based on available space and user numbers.
Cistern	**5.1.9 Urinal flushing options:** Cistern volume to suit number of urinals. - Touch free, proximity sensor controlled - Manual push button flush - Adjustable time delayed flush with timer to shut-off water supply during periods of non-use (e.g., overnight) Overflow: Internal overflow required to all toilet and urinal cisterns	Urinal flushing systems must be sized appropriately to match the number of urinals to ensure effective hygiene and water efficiency. Different activation methods support different user needs and the schools preferred method.	Bushboard can provide urinal flushing systems with various cistern options to suit installation requirements.
	5.1.9 Cistern Standards - To BS EN 14055 - British Standard flush test in compliance with Water Regulation Guide (WRAS) - UK class 2 flush test to cover any part flush performance in line with BS EN 997 - Regulation 4 of The Water Supply (Water Fittings) Regulations 1999 approved e.g., KIWA, WRAS or NSF approved	These standards ensure cisterns are safe, durable and water efficient. BS EN 14055 covers cistern performance and durability. WRAS / Water Regulations compliance ensures correct fittings to UK water supply to limit contamination to drinking water in the supply network. BS EN 997 Class 2 flush testing confirms effective flush performance with urinals.	Bushboard supplies cistern systems that meet all of the requirements.
Cistern Requirements	**5.1.9 Cistern Material options** - Vitreous China to BS 3402 with lockable lids where exposed for urinals - Plastic to BS 1876, where concealed for urinals	Cistern material is specified based on exposure and risk. Vitreous China (BS 3402) is used where cisterns are visible, offering a robust, hygienic and vandal-resistant solution, with lockable lids for safeguarding. Plastic cisterns to BS EN 14055 are used in concealed applications, including within IPS duct systems, providing a lightweight, serviceable option suitable for hidden installation and routine maintenance access.	Bushboard typically offers plastic cisterns for concealed use with our Ready Plumbed IPS panel systems however we can supply options for Vitreous China on request.
	5.1.9 Overflow Internal overflow required to all urinal cisterns	Cisterns must include an internal overflow mechanism that safely diverts excess water back into the flushing system or bowl, preventing leaks, flooding, and water damage if a fill valve fails. This improves safety and reduces maintenance issues.	Bushboard cistern systems can be specified with internal overflow protection to urinal cisterns to support low maintenance operations.

Technical Manual 5.1.10 SANITARYWARE - WASH HAND BASINS

Provision	**DfE Pattern Book: Wash Hand Basin Provision** Early Years 3-5 years: 1 basin for every 10 children Schools 6-18 years: 1 basin for every 20 pupils SEN Schools 2-19 years: 1 basin for every 10 pupils Colleges: 1 basin for every 20 students	The DfE Pattern Book provides standard layout guidance and recommended wash hand basin provision ratios based on pupil age groups, helping ensure sufficient capacity and appropriate distribution across school areas.	Bushboard's bespoke vanity units that can support DfE Pattern Book guidance with varying widths available to suit your space. We can advise but ultimately it is up to the architect, contractor or facilities management team in charge of the layout design to ensure there is appropriate provision.
Specification	**Standard** To BS EN 14688	BS EN 14688 is the European standard for sanitary appliances. It defines requirements for safety, load resistance, durability, surface finish, hygiene and water discharge performance, ensuring basins are suitable for high-use public environments like schools.	Bushboard supply basins that comply with BS EN 997.
	Material To be Vitreous China to BS 3402	Vitreous China is a ceramic material fired at high temperatures to create a hard, non-porous, glazed surface. BS 3402 sets quality requirements ensuring strength, durability, low water absorption, and resistance to staining, chemicals and heavy daily use.	Our range of basins are manufactured in Vitreous China to BS 3402.
	Plugs Prohibited in wash hand basins/washrooms used by pupils/students	Washbasins should not include plugs or stoppers to prevent misuse, flooding risk and hygiene issues with standing water.	Bushboard washbasin and vanity solutions for education environments are supplied without plugs.

Installation	**Joints** Fully sealed along top/back edge to basin width	All joints between basins must be fully sealed to prevent water ingress and hygiene issues such as bacterial growth, mould, and water damage to the vanity top.	Bushboard Ready Plumbed Vanity Units are supplied with basins pre-fitted and fully sealed into the top at factory stage, ensuring a watertight, hygienic and installation-ready solution on site.
	Coordinated With splashback, mirrors and soap dispensers	Splashbacks protect wall finishes from water ingress, mirrors must be positioned for appropriate user sightlines, and soap dispensers that provide ease of use. See 5.1.22 for soap dispenser requirements.	Bushboard can supply a range of suitable soap dispensers, however splashback and mirrors should be supplied by others.
	Service runs Concealed **Access to services** Removeable panels with tamperproof fixings	Pipework and services to the basins and soap dispensers should be hidden within service voids or vanity unit to improve hygiene by reducing dust and dirt traps. However, they must remain accessible for maintenance via removable access panels. These panels should use tamperproof fixings to prevent unauthorised access or damage.	Bushboard offers a range of vanity units suitable for concealing services. Our EzeeVanity and Ready Plumbed Vanity Units can be supplied with removeable access panels which are secured with an anti-tamper lock.
Dimensions	**Indicative Minimum Sizes** - 500mm x 400mm to communal handwashing areas and hygiene rooms - 400mm x 250mm to ambulant universal toilet rooms - 370mm x 300mm to accessible toilets Note: The position of the taps shall be within the easy reach of anticipated users	Washbasin sizes should be selected based on the type of toilet space and user group. Larger basins are used in communal and hygiene areas for shared use, while smaller basins suit WC cubicles where space is limited. In all areas, the basin dimensions and tap position must support safe reach ranges for users for easy operation.	Bushboard pre-plumbed vanity units are available in a range of sizes and wash basin options suitable for all room applications.
	Mounting Heights (to top of surface) - Early Years: 500mm - KS1/Infant: 700mm - KS2/Junior: 750mm - KS3 & KS4/Secondary, KS5/Post-16, College and adult: 750-850mm - Accessible toilets (DOC M pack): 720-740mm - Height adjustable wash hand basin with flexible servicing in hygiene room (580-1030mm) only where specified in the Project Brief (for Changing Places provision)	Washbasins must be installed at heights appropriate to pupil age and accessibility needs. Lower heights support younger children's reach and posture, while higher adult settings improve ergonomics. Accessible and DOC M heights ensure compliance with wheelchair transfer and reach requirements	Bushboard pre-plumbed vanity units can be configured to meet DfE mounting height requirements across all education room settings.

Technical Manual 5.1.11 SANITARYWARE - WASHTROUGHS

Provision	**DfE Pattern Book: Washtrough Provision** Alternative to wash hand basins. Early Years 3-5 years: 1 basin for every 10 children Schools 6-18 years: 1 basin for every 20 pupils SEN Schools 2-19 years: 1 basin for every 10 pupils Colleges: 1 basin for every 20 students	Washtroughs can be specified as an alternative to individual basins, with provision based on pupil numbers. In practical design terms, each 500mm of washtrough length is typically treated as one handwashing station. For example, in Early Years provide 500mm of washtrough for every 10 children.	Bushboard's Washtrough for Schools range is available in bespoke lengths up to 3000mm, providing up to six handwashing stations in a single unit. Troughs can also be jointed to create longer runs, enabling compliant layouts to suit pupil numbers and washroom configurations.
Specification	**Standard** To BS EN 14296	BS EN 14296 is the European standard for communal washtroughs. It sets requirements for performance, durability, hygiene and water drainage.	Bushboard's Washtrough for Schools comply with BS EN 14296.
	Material Options - Solid Surface to BS EN ISO 19712 series - Grade 304 brushed stainless steel to BS EN 10088 series	Solid surface provides a smooth, non-porous and durable finish with seamless joints for enhanced hygiene, while Grade 304 stainless steel offers excellent durability, corrosion resistance and vandal resistance. Both are great for high-traffic washrooms.	Bushboard Education Washtroughs are manufactured in solid surface, providing a durable, hygienic and seamless handwashing solution. Where required, Bushboard can also supply stainless steel washtroughs to suit specific project requirements.
	Upstand Integral to minimum height of 50mm at junction with walls; coordinated with minimum 300mm high splashback, mirrors and soap dispensers	Washtroughs must incorporate an integral upstand of at least 50mm where the unit meets the wall to prevent water ingress behind the installation. A 300mm splashback is also required to protect wall finishes from water splashing during use at the taps.	Bushboard Washtroughs for Schools are available with a 50mm integral upstand where the splashback is typically provided by others. There are also options with an integrated 200mm splashback. Where required, this can be coordinated with additional wall finishes to achieve the overall specified 300mm splashback height.
	Plugs Prohibited in wash hand basins/washrooms used by pupils/students	Washtroughs should not include plugs or stoppers to prevent misuse, flooding risk and hygiene issues with standing water.	Bushboard Washtrough for Schools are supplied without plugs.

	Joints Waterproof, even, smooth and jointless appearance	Washtroughs should have smooth, continuous surfaces with fully waterproof joints to prevent water ingress, dirt build-up and bacterial growth. A seamless finish improves hygiene, makes cleaning easier, and enhances durability in high-use school environments.	Bushboard education washtroughs are thermoformed, meaning the solid surface material is heated and moulded into single, smooth and continuous shapes without joints. This creates a seamless, non-porous surface that reduces dirt traps, prevents bacterial build-up, and makes cleaning faster and more effective in education washrooms.
Installation	**Type** Set onto unit to match toilet partition panel system concealing services beneath trough but supported by water-resistant framework securely fixed to substrate – see to 5.1.5 Health and safety. Concealed services to be accessed via panels aligned with panel system, secured with tamper proof fixings to prevent unauthorised access	Pipework and services to the tapes and drainage should be hidden within a robust, water-resistant vanity unit to improve hygiene by reducing dust and dirt traps. However, they must remain accessible for maintenance via removable access panels. These panels should use tamperproof fixings to prevent unauthorised access or damage.	Bushboard washtrough systems can be supplied on our robust SGL vanity unit, fixed together using a bracketed system with no timber framing. The design fully conceals services while maintaining maintenance access via removable panels with tamperproof locks, ensuring secure, hygienic and serviceable installations.
Dimensions	**Indicative Minimum Sizes** - 2-person wash trough: 1000mm x 400mm - 3-person wash trough: 1500mm x 400mm Note: The position of the taps shall be within the easy reach of anticipated	Washtroughs should be a minimum of 500mm per user with a reduced 400mm depth compared to standard washtroughs (typically 500mm deep). This reduced depth is specifically intended to improve reachability for children, ensuring taps are within easier reach while still providing sufficient bowl area for effective handwashing and minimising splash.	Bushboard Education Washtroughs are manufactured in bespoke lengths and all with a 400mm reduced depth as standard to improve tap reach for younger users.
	Mounting Heights (to top of surface) - Early Years: 500mm - KS1/Infant: 700mm - KS2/Junior: 750mm - KS3 & KS4/Secondary, KS5/Post-16, College and adult: 750-850mm	Washtroughs must be installed at heights appropriate to user age group to ensure safe reach, comfortable posture and effective handwashing. Lower heights support younger children's ability to reach taps without requiring steps, while higher installations suit older pupils and adults.	Bushboard Education Washtroughs are supplied on a vanity underframe that can be manufactured to the correct mounting height, or with cantilever bracket options where installation height is set on site by the installer to meet the required DfE age-group standards.

Technical Manual 5.1.12 SANITARYWARE - TAPS FOR HANDWASHING

Provision	**Provision** Equal to number of handwashing facilities	Each handwashing position (basin or 500mm washtrough station) must be provided with its own dedicated tap to ensure adequate water supply, prevent queuing, and support effective hygiene for all users at peak times.	Bushboard washtrough and basin systems can be supplied pre-plumbed with taps in line with the number of handwashing positions, ensuring full compliance with DfE provision requirements.
Specification	**Standards** - To BS EN 816 and BS EN 817 (non-concussive and lever) - To BS EN 15091 (electric) - To BS EN 1111 - Regulation 4 of The Water Supply (Water Fittings) Regulations 1999 approved e.g., KIWA, WRAS or NSF approved	Taps and associated valve systems must meet recognised performance and safety standards. BS EN 816/817 cover timed flow, and manual lever taps for durability and controlled water use in high-traffic environments. BS EN 15091 applies to electronic taps, ensuring reliable sensor operation and hygiene benefits. BS EN 1111 governs thermostatic mixing valves, ensuring safe, temperature-controlled water delivery to prevent scalding. Regulation 4 approval confirms materials and components are safe for connection to UK potable water systems and comply with Water Supply Regulations.	Bushboard can specify tap and control systems compliant with all the standards.
	Options - Wall mounted or countertop mounted chromium brass mixer tap with built-in mains fed electronic sensor generally, except to accessible toilets - Extended lever mixer tap or sensor operated compact mixer tap to accessible toilets (DOC M pack)	In standard washrooms, sensor operated mixer taps are preferred for hygiene, water efficiency and reduced contact. In accessible (DOC M) toilets, taps must be operable with limited dexterity with extended lever handles or easy-to-use sensor operation.	Bushboard offers a range of chrome mixer tap options compatible with its vanity units and washtrough systems, available in wall or deck-mounted configurations with lever or sensor operation as required.

Specification	**Flow performance** Maximum 4 litres per minute	Taps must be water-efficient, limiting flow to a maximum of 4 litres per minute. This helps reduce overall water consumption in schools while still providing sufficient flow for effective handwashing and hygiene.	Bushboard can supply tap systems with flow rates set and regulated via TMV-controlled mixers or integrated sensor tap systems, both configured to achieve the required maximum 4 L/min.
	Fixing Taps shall be fitted with solid copper connections and double brass or copper backnuts to lock the taps in place in accordance with manufacturer's instructions for substrate/location. Plastic backnuts shall not be used	Tap installations must use robust, long-life mechanical fixings to prevent loosening or movement under frequent use. The requirement for solid copper pipework connections ensures a rigid, durable connection between the tap and water supply, improving stability and reducing the risk of joint failure. Double brass or copper backnuts provide additional mechanical locking, ensuring taps remain securely fixed. Plastic backnuts are not permitted due to reduced strength and potential of failure over time.	Bushboard can pre-plumbed taps using solid copper pipework connections with double brass or copper backnuts ensuring a secure fit. All connections are pressure tested in the factory to ensure leak-tight performance, meaning installers only need to complete only final mains connections on site.

Technical Manual 5.1.20 ACCESSORIES - ELECTRIC HAND DRYERS

Provision	**Extent** One for every five toilets, or part thereof, within a space Note: DfE's requirement is for electric hand dryers unless a preference for paper towels has been identified in the Project Brief, in which case clause 5.1.21 shall apply	Hand drying provision must be sufficient to ensure adequate availability during peak usage such as breaktimes, supporting efficient pupil flow through washrooms. Electric hand dryers are the default solution in DfE guidance as they help maintain hygiene standards and reduce the risk of cross-contamination.	Bushboard can supply as many electric hand dryers as required in the design.
Specification	**Control** **Infrared for no contact start, auto-off** **Drying time** Less than 30 seconds	Hand drying systems must be capable of drying hands in under 30 seconds to ensure fast turnover during peak usage times. Hand dryers must operate using infrared sensors to enable completely touch-free activation, improving hygiene and reducing cross-contamination risk. Automatic shut-off ensures the dryer only runs while hands are present, improving energy efficiency and preventing unnecessary run-on time.	Bushboard offers a range of electric hand dryers designed to align with DfE requirements, including sensor-operated infrared models with concealed fittings suitable for mounting to a wall within the body of the unit, providing secure, tamper-resistant installations.
	Noise level Less than 65dBA at 1m	Hand dryers must operate at a noise level below 65 decibels at 1 metre to minimise disruption within school environments. This helps maintain a calmer acoustic environment, particularly important where washrooms are located near classrooms.	
	Fittings Concealed and tamper proof	All fixings and components must be hidden from view so they cannot be easily removed by users, this prevents vandalism and improves safety.	
Installation	**Mounting heights (to underside)** - Early Years: 650mm - KS1/Infant: 775mm - KS2/Junior: 850mm - KS3 & KS4/Secondary, KS5/Post-16, College and adult: 1000mm	Hand dryers must be installed at age-appropriate heights measured to the underside of the unit. Lower mounting heights support younger children's reach and usability, with higher positions suit older pupils and adults.	Mounting heights are to be set on site by the installer to meet DfE requirements for each user group.

Technical Manual 5.1.21 ACCESSORIES - PAPER TOWEL DISPENSERS

Provision	Paper towel dispensers shall only be provided if identified in the Project Brief in lieu of electric hand dryers (may be supplied by a service provider to School/College) **Extent** One for every five toilets, or part thereof, within a space	Electric hand dryers are the standard preferred provision in school washrooms. Paper towel dispensers are only included where specifically required in the project brief and are typically managed by an external service provider responsible for supplying and replenishing consumables rather than being part of the core washroom fit-out. If they are supplied there must be enough provision to ensure adequate availability during peak use.	Bushboard can supply whichever hand drying method is required by the project brief, with quantities to suit the washroom design and user demand.
Specification	**Type** Single sheet dispenser with tamper proof lock **Control** Hands-free	Paper towel dispensers must dispense one towel at a time to control usage, reduce waste and hands-free sensor operation to improve hygiene by limiting contact with the unit. A tamper-proof lock is required to prevent unauthorised access, vandalism or removal of contents in high-traffic school environments.	Bushboard offers a range of paper towel dispensers s designed to align with DfE requirements, including sensor operated models with concealed fittings suitable for mounting to a wall within the body of the unit, providing secure, tamper-resistant installations.
	Fittings Concealed and tamper proof	All fixings and components must be hidden from view so they cannot be easily removed by users, this prevents vandalism and improves safety.	
Installation	**Mounting heights (to underside)** - Early Years: 650mm - KS1/Infant: 775mm - KS2/Junior: 850mm - KS3 & KS4/Secondary, KS5/Post-16, College and adult: 1000mm	Paper towel dispensers must be installed at age-appropriate heights measured to the underside of the unit. Lower mounting heights support younger children's reach and usability, with higher positions suit older pupils and adults.	Mounting heights are to be set on site by the installer to meet DfE requirements for each user group.

Technical Manual 5.1.22 ACCESSORIES - SOAP DISPENSERS

Provision	**Extent** One for every wash hand basin or every 500mm length (person bay) of wash trough (may be supplied by a service provider to School/College)	Soap provision must match handwashing capacity. This ensures every user has immediate access to soap at the point of use, supporting effective hygiene practice and reducing cross-usage or queuing at shared dispensers.	Bushboard can supply as many soap dispensers as required in the design.
Specification	**Type** Cartridge with a minimum of 1000ml of liquid soap via a dosing pump	Soap dispensers should cartridges that can be refilled with a minimum capacity of 1000ml to reduce refill frequency and maintenance requirements. A dosing pump delivers a controlled amount of soap per use, helping to minimise waste, maintain hygiene and ensure consistent operation.	Bushboard offers a range of soap dispensers designed to align with DfE requirements, including press action dosing pumps with concealed fittings suitable for mounting to a wall within the body of the unit, providing secure, tamper-resistant installations.
	Fittings Concealed and tamper proof	All fixings and components must be hidden from view so they cannot be easily removed by users, this prevents vandalism and improves safety.	
Installation	**Mounting heights (to underside)** - Early Years: 700mm - KS1/Infant: 900mm - KS2/Junior: 900mm - KS3 & KS4/Secondary, KS5/Post-16, College and adult: 1000mm	Soap dispensers must be installed at age-appropriate heights measured to the underside of the unit. Lower mounting heights support younger children's reach and usability, with higher positions suit older pupils and adults.	Mounting heights are to be set on site by the installer to meet DfE requirements for each user group.

Technical Manual 5.1.23 ACCESSORIES - TOILET PAPER DISPENSERS

Provision	**Extent** One for every toilet pan (may be supplied by a service provider to School/College)	Toilet paper dispensers should be provided on a one-to-one basis with toilet pans to ensure adequate provision for all users and reduce the risk of facilities running out during peak periods. In some schools or colleges, supply and replenishment may be managed by a specialist hygiene service provider.	Bushboard can supply and coordinate dispenser provision on a one-per-toilet basis as required.
Specification	**Type** Sheet with tamper proof lock	Sheet dispensers provide controlled dispensing of toilet tissue, helping to reduce waste, prevent blockages caused by excessive paper use, and improve hygiene. A tamper-proof lock prevents unauthorised access, vandalism and theft of consumables.	Bushboard offers toilet tissue dispensers designed to align with DfE requirements, including sheet tissue dispensers with lock and concealed fittings suitable for mounting to a wall within the body of the unit, providing secure, tamper-resistant installations.
	Fittings Concealed and tamper proof	All fixings and components must be hidden from view so they cannot be easily removed by users, this prevents vandalism and improves safety.	
Installation	**Mounting heights (to underside)** - Early Years: 500mm - KS1/Infant: 550mm - KS2/Junior: 600mm - KS3 & KS4/Secondary, KS5/Post-16, College and adult: 800-1000mm	Toilet paper dispensers must be installed at age-appropriate heights measured to the underside of the unit. Lower mounting heights support younger children's reach and usability, with higher positions suit older pupils and adults.	Mounting heights are to be set on site by the installer to meet DfE requirements for each user group.

Technical Manual 5.1.24 ACCESSORIES - SANITARY PRODUCT DISPENSING MACHINES

Provision	**Extent** Minimum one machine per female toilet suite, or as specified in the Project Brief, for use from and including KS2 onwards (may be supplied by a service provider to School/College)	The DfE guidance sets the minimum, these should only be in female washroom areas for those aged 7 and above, most commonly required from upper KS2 onwards. In some schools and colleges, supply and replenishment may be managed by a specialist service provider rather than as part of the core washroom installation.	Bushboard does not supply sanitary product dispensers. Provision is typically by the facilities management team, installer, or a specialist hygiene service provider.
	Location In common areas used only by females, not in an individual cubicle/room and not visible from circulation areas	Sanitary product dispensers should be located within female-only washroom areas where they are easily accessible ensuring they are not visible from corridors or circulation routes helps preserve dignity and discretion for users.	
Installation	**Mounting height (to underside)** 850-1000mm	The dispenser is positioned at an accessible, comfortable reach range for older users while remaining discreet and practical within female washroom areas.	

Technical Manual 5.1.25 ACCESSORIES - SANITARY PRODUCT DISPOSAL BINS

Provision	**Extent** One for every female toilet cubicle or universal toilet room, or as specified in the Project Brief, for use from and including KS2 onwards (may be supplied by a service provider to School/College)	Sanitary waste disposal bins must be provided in any toilet that a female may require it. This will include every female toilet cubicle and also every universal toilet room which is intended for use by both mail and females as a gender-neutral area. This ensures hygienic and discreet disposal of sanitary products for users from KS2 upwards.	Bushboard does not supply sanitary waste bins. Provision, servicing and ongoing disposal of waste from these bins is typically managed by the facilities management team or a specialist hygiene service provider, who are responsible for routine emptying and safe waste removal in line with school hygiene procedures.
	Location On the floor adjacent to the toilet pan	Sanitary waste bins should be positioned on the floor next to the toilet pan keeps the bin within immediate reach for easy and discreet access.	

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