



MADE IN BRITAIN
DISTRIBUTED WORLDWIDE

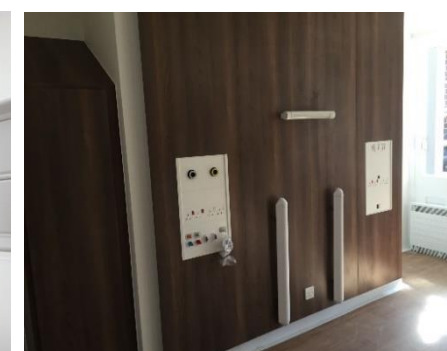
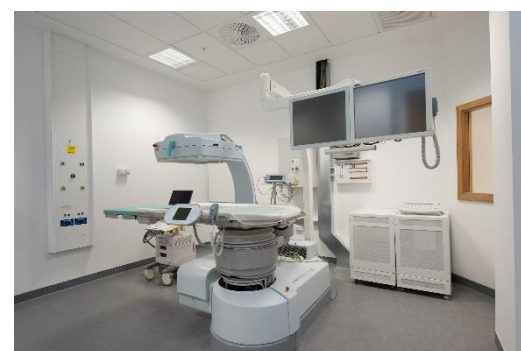
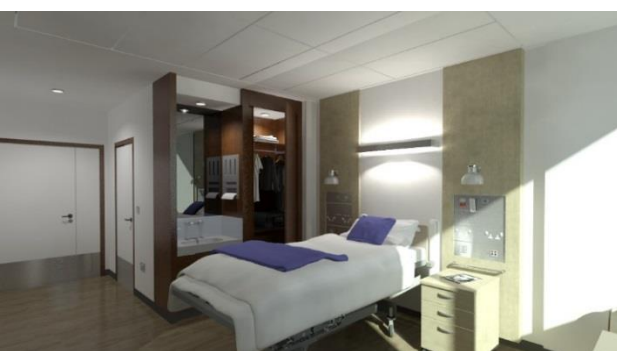
SmartER WallTM *bedhead services containment system*



CABL  **FLOW**TM
H E A L T H C A R E

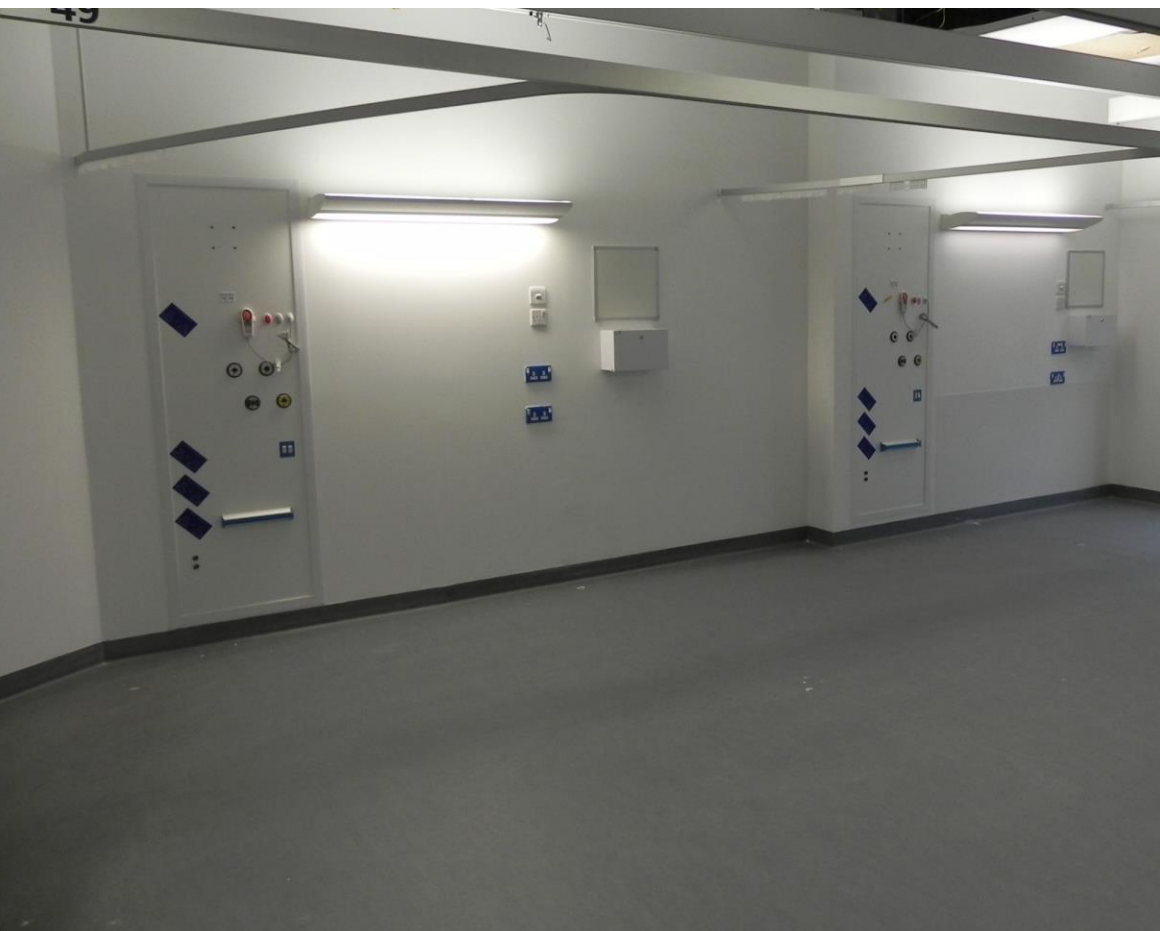
applications

CABLEFLOW™





MADE IN BRITAIN
DISTRIBUTED WORLDWIDE



Innovation is at the heart of an evolutionary healthcare infrastructure. Challenging boundaries whilst being respectful of clinical skills are two valued philosophies which ensure knowledge led developments in bedroom architecture.

At **CABLEFLOW** we recognise the need to be different, to ensure product development offers practical and sustainable progression whilst always ensuring full compliance with Patient Safety Standards and improving the clinical environment for clinicians and patients alike.

We are proud of our British healthcare heritage which offers universal application around the world. Having been conferred both a prestigious **Queens Award for Enterprise: Innovation** and a **Kings Award for Enterprise: Innovation** users of our products and systems take confidence in this unique recognition of Cableflow as a market leader.

Recognised as Britain's foremost medical supply unit manufacturer our range of products whether standard or bespoke offer solutions to satisfy many in-patient design concepts across all clinical environments whether primary or tertiary care areas, and every speciality in-between.

In 2005 our **integra** product became the first and only linear bedhead trunking system to achieve Royal recognition with a **Queens Award for Enterprise: Innovation** from Her Majesty Queen Elizabeth II. This achievement was further endorsed in 2023 with a **Kings Award for Enterprise: Innovation** for our (POAG) equipotential earth bonding socket.

Improving the clinical architecture, patient and clinician experience whilst ensuring flexibility and adaptation in later use are hallmarks of our innovative bedhead solutions. Whether in an acute hospital setting or more domestic environments such as Hospice's and the like our systems can be tailored to your requirements.





The **SmartER Wall™** embodies our experience and innovative approach to bedhead services attained over many years, integrating all patient care services within a sleek flush mounted fascia panel provided with a comprehensive level of mandated technical compliance.

SmartER Wall™'s unobtrusive lines clearly define the patient services area whilst limiting encroachment upon the patients personal space in a way that ensures the medical components remain unobtrusive yet accessible.

By creating an uncluttered yet designated appearance to the bedhead area the patient experience will be less stressful and thus allows for ease of nursing care in a simplistic manner.

SmartER Wall™ defines a refined concept in bedhead services provision.

Flush mounted services form part of the modular partition wall construction and offer varied benefits over conventional bedhead services containment. By integrating into the wall construction at an early stage while fully protecting the services allows for a quicker build programme. Testing and commissioning early, shortens the final phase on-site prior to project handover, ensuring a significant contribution to project completion on-time.

DESIGN

Utilising a flush concept the sleek appearance ensures that valuable floor area is not compromised by unnecessary protrusion and that a degree of finesse is applied to an otherwise clinical environment.

Meeting the cleaning and environmental requirements of HBN 00-09 has been paramount in the design of this product so that the minimum of surfaces are exposed which can either collect dust or harbour bacteria. All surfaces can be easily wipe cleaned whilst the fascia panels can be simply removed and replaced with the use of a bespoke tool to facilitate any enhanced bacterial cleaning.

MODULARISATION

Adopting a modular approach to the construction of **SmartER Wall™** we maintain two main elements, the first and final fix.

This reduces the quality and complexity of components and presents the patient care services in a single, fully HTM compliant panel flush with the wall surface and allowing ease of install.

INTEGRATION

The concept of a first and final fix allows the integration of all patient care services such as lighting, patient entertainment, medical equipment rail, patient monitoring, power, data nurse call, medical gases and the like.

SPECIFYING PEACE OF MIND

Specifying a **CABLEFLOW** medical trunking system throughout your hospital will provide an easy to use and aesthetically pleasing solution while maintaining a uniform look across all departments.

As an Award winning manufacturer, innovation is at the core of our philosophy and product solutions, based upon a proven track record over 25+ years in the UK healthcare industry.

MAINS POWER

Electrical socket outlets from the UK, continental Europe, the US and other geographical regions can be accommodated, including switched or unswitched versions for standard, non-standard or Medical IT supplied circuits. Where called for these can be colour co-ordinated subject to the respective manufacturer's product range.

POTENTIAL EQUALISATION

The **CABLEFLOW POAG-PES** potential equalisation socket (equipotential earth bonding) is installed on all bedheads to meet the requirement of BS7671 Section 710 and in an appropriate number.

NURSE CALL SYSTEMS

Each hospital will vary in its individual requirement from the next, none more so than the nurse call system.

SmartER Wall™ has been designed specifically to accommodate all commercially available nurse call systems including the latest wireless products. As an independent trunking manufacturer with no allegiance to any specific nurse call supplier, we leave the choice of nurse call manufacturer up to you, the user and specifier, and we simply co-ordinate it for you.

Often when a client states a particular preference for a bedhead services manufacturer, this invariably refers to the nurse call system to ensure compatibility with existing arrangements.

Our bedhead containment systems are universally used with all major nurse call systems and do not affect the choice of nurse call equipment which can still remain as the hospital norm.

MEDICAL GAS TERMINAL OUTLETS

As with other patient care services provision, **SmartER Wall™** is able to accommodate any type of medical gas terminal outlets, each hospital or installer having a preference for a particular type. Medical gas pipelines are fully segregated from cabled services, accessible by their own lid section meaning terminal outlets can be positioned almost anywhere in the module and the pipeline maintained in total safety.



49

50

A control panel on the left wall featuring several gauges, a red emergency stop button, and a blue handle. It is marked with four blue diamond-shaped symbols on the left side.



Two electrical outlets and two blue diamond-shaped markers are mounted on the central wall.

A white rectangular panel or box mounted on the central wall, possibly a communication or data interface.

A control panel on the right wall, similar to the one on the left, with gauges, a red emergency stop button, and a blue handle. It is marked with four blue diamond-shaped symbols on the left side.



A white rectangular panel or box and two blue diamond-shaped markers are mounted on the right wall.





PRE-BUILD, PRE-WIRE & PRE-GAS

Completing the product construction within a controlled factory environment, ensures end product quality can be maintained and co-ordinated. The **SmartER Wall™** is an offsite manufactured product which benefits from pre-wiring using a modular-wiring concept, integrating with site field wiring which is further enhanced by fully tested and certified pre-gassing of the medical gas pipelines.

Supplied pre-gassed and pre-wired this represents in considerable savings of time on site and supplementary testing. This also applies to the nurse call system where age-old barriers to pre-wiring systems have been overcome adopts close liaison with specific nurse call system manufacturers, all leading to reduced labour resource on site.

Utilising modular wiring leads the first fix base unit can be tested right to the point of termination so that the pre-wired fascia cover simply adopts a plug-and-play concept having been fully factory tested and certified. This added flexibility in programme sequencing means the fascia can be a final fix item.

SEQUENCE OF INSTALL

The first fix carcass fitment is co-ordinated at the same time as studwork construction and allows the walls to be closed much sooner than conventional methods. Locating into a specific recess between studwork the rigidity of the **SmartER Wall™** is maintained and its location completed early in the programme, thus defining clear setting out datums for following trades.

As both wall sides are boarded a simple window is cut in the plasterboard to allow the first fix carcass to poke through, ready to receive the fascia panel as a final fix item.

No finishing of the plasterboard edge detail is required as the bespoke polycarbonate fascia trim covers any unsightly cut lines.

EMC CERTIFICATION AND COMPLIANCE

Protecting electronic components in the patient environment from Electro-Magnetic Interference (EMI) and Radio Frequency Interference (RFI) is of paramount importance. **SmartER Wall™** has been designed specifically to ensure that each chamber, and in turn each individual compartment, controls both the emission and reception of any such Interference.

By specifying **SmartER Wall™** you can be satisfied that the EMC elements of BS EN ISO 11197:2019 have been complied with. All of our system solutions have been independently tested by BSI with all of the commercially available nurse call system in operation.

Document Reference	Document Description	Document Reference	Document Description
BS 476-10: 2009	Fire tests on building materials and structures. Guide to the principles, selection, role and application of fire testing and their outputs	BS EN ISO 9170-2:2008	Terminal units for medical gas pipeline systems. Terminal units for anaesthetic gas scavenging systems
BS 1363-1:2016 + A1:2018	13 A plugs, socket-outlets, adaptors and connection units. Specification for rewirable and non-rewirable 13 A fused plugs	BS EN ISO 7599:2010	Anodizing of aluminium and its alloys. General specifications for anodic oxidation coatings on aluminium
BS 1363-2:2016 + A1: 2018	13 A plugs, socket-outlets, adaptors and connection units. Specification for 13 A switched and unswitched socket-outlets	BS EN ISO 11197:2019	Medical supply units
BS 1363-4:2016 + A1 2018	13 A plugs, socket-outlets, adaptors and connection units. Specification for 13 A fused connection units switched and unswitched	ISO 19054:2006 + A1:2016	Rail Systems for supporting medical equipment
BS 5266-1:2011	Emergency lighting. Code of practice for the emergency escape lighting of premises	HBN 00-03	Designing generic clinical and clinical support spaces
BS 5733:2010+A1:2014	General requirements for electrical accessories. Specification	HBN 00-04	Circulation and communication Spaces
BS 6701: 2016	Telecommunications equipment and telecommunications cabling. Specification for installation, operation and maintenance	HBN 00-09	Infection control in the built environment
BS 6972: 1988	Specification for general requirements for luminaire supporting couplers for domestic, light industrial and commercial use	HBN 04-01	Adult in-patient facilities: planning and design
BS 7671:2018 + A2 2022	Requirements for Electrical Installations 18th Edition IET Wiring Regulations (incorporating Section 710 (Special Locations Medical Locations))	HBN 04-02	Critical care units
BS 8300-1:2018	Design of buildings and their approaches to meet the needs of disabled people. Code of practice	HBN 4, Supplement 1	Isolation facilities for infectious patients in acute settings
BS EN 12206-1:2021	Paints and varnishes. Coating of aluminium and aluminium alloys for architectural purposes. Coatings prepared from coating powder	HBN 6	Facilities for Diagnostic imaging and interventional radiology:
BS EN 12464-1: 2021	Light and lighting. Lighting of work places. Indoor work places	HBN 07-01	Satellite Dialysis Unit
BS EN 13032-2: 2017	Light and lighting. Measurement and presentation of photometric data of lamps and luminaires. Presentation of data for indoor and outdoor work places	HBN 07-02	Main Renal Unit
BS EN 50083-2:2012	Cable networks for television signals, sound signals and interactive services. Electromagnetic compatibility for equipment	HBN 09-02	Maternity Care Facilities
BS EN 50085-1:2005+A1:2013	Cable trunking systems and cable ducting systems for electrical installations. General requirements	HBN 09-03	Neonatal Units
BS EN 50085-2-1:2006	Cable trunking systems and cable ducting systems for electrical installations. Cable trunking systems and cable ducting systems intended for mounting on walls and ceilings	HBN 57: 2003	Facilities for critical care
BS EN 60439-5: 2006	Low-voltage switchgear and control gear assemblies. Particular requirements for assemblies for power distribution in public networks	HTM 00	Building Engineering in the Health Sector
BS EN 60529:1992+A2:2013	Degrees of protection provided by enclosures (IP code)	HTM 02-01	Medical gas pipeline systems
BS EN 60598-1:2021	Luminaires. General requirements and tests	HTM 06-01	Electrical services: supply and distribution
BS EN 60598-2-22:2014 +A1: 2020	Luminaires. Particular requirements. Luminaires for emergency lighting	HTM 06-02	Electrical safety guidance for low voltage systems
BS EN 60601-1-6:2010+A1:2013 +A2:2020	Medical electrical equipment. General requirements for basic safety and essential performance. Collateral standard. Usability	HTM 08-03	Management of bedhead services in the health sector
BS EN 60601-1-2: 2015 + A1:2021	Medical electrical equipment. General requirements for basic safety and essential performance. Collateral standard. Electromagnetic compatibility. Requirements and tests	HTM 17	Health Building Engineering Installations
BS EN 60669-1:2018	Switches for household and similar fixed-electrical installations. General requirements	HTM 2014	Abatement of electrical interference
BS EN 61000-6-3:2021	Electromagnetic compatibility (EMC). Generic standards. Emission standard for residential, commercial and light-industrial environments (formally BS EN 50081-1)	HTM 2020	Electrical safety code for low voltage systems
BS EN 61000-6-4:2019	Electromagnetic compatibility (EMC). Generic standards. Emission standard for industrial environments	CIBSE LG 02: 2019	Lighting guide - Hospitals and health care buildings
BS EN 61000-6-1:2019	Electromagnetic compatibility (EMC). Generic standards. Immunity for residential, commercial and light-industrial environments (formally BS EN 50082-1)	CIBSE LG 3: 2001	Lighting guide - The visual environment for Display Screen Use
BS EN ISO 7396-1:2016 +A1:2019	Medical gas pipeline systems. Pipeline systems for compressed medical gases and vacuum	CIE	European Lighting Guide
BS EN ISO 7396-2: 2007	Medical gas pipeline systems. Anaesthetic gas scavenging disposal systems	NHS SPEC C49: 1997	Nurse Call Systems. Revision 3
BS EN ISO 9170-1:2017	Terminal units for medical gas pipeline systems. Terminal units for use with compressed medical gases and vacuum	EU MDR 2107/745	EU Medical Device Regulation
		UK MDR 2002	UK Medical Device Regulations (SI 2002 (no. 618, as amended))







MADE IN BRITAIN
DISTRIBUTED WORLDWIDE

CABLEFLOW™

Cableflow
International
Limited



For full product data sheets go to our website or contact us directly

www.cableflow.com



Cableflow International Limited | Windsor House | Abbey Barn Road | High Wycombe | Buckinghamshire | HP11 1NN | United Kingdom

(tel) 00 44 (0)1494 52 88 11 | (email) sales@cableflow.com

Registered in England 2356618