MADE IN BRITAIN
DISTRIBUTED WORLDWIDE

SmartER Wall™ *bedhead services containment system*

THE QUEEN'S AWARDS
FOR ENTERPRISE:
INNOVATION
2005

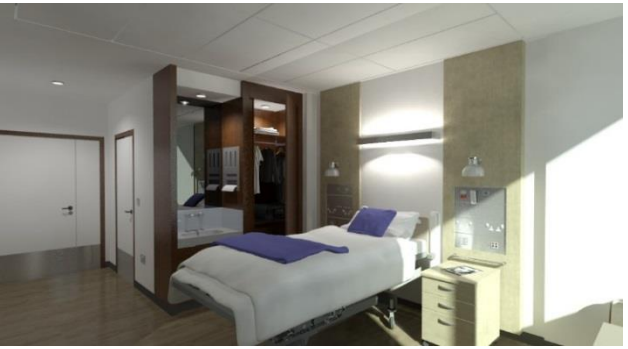
CABLEFLOW™
HEALTHCARE

applications

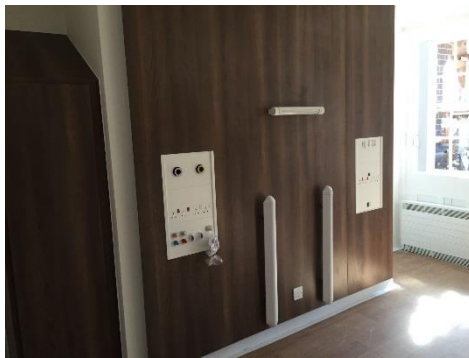






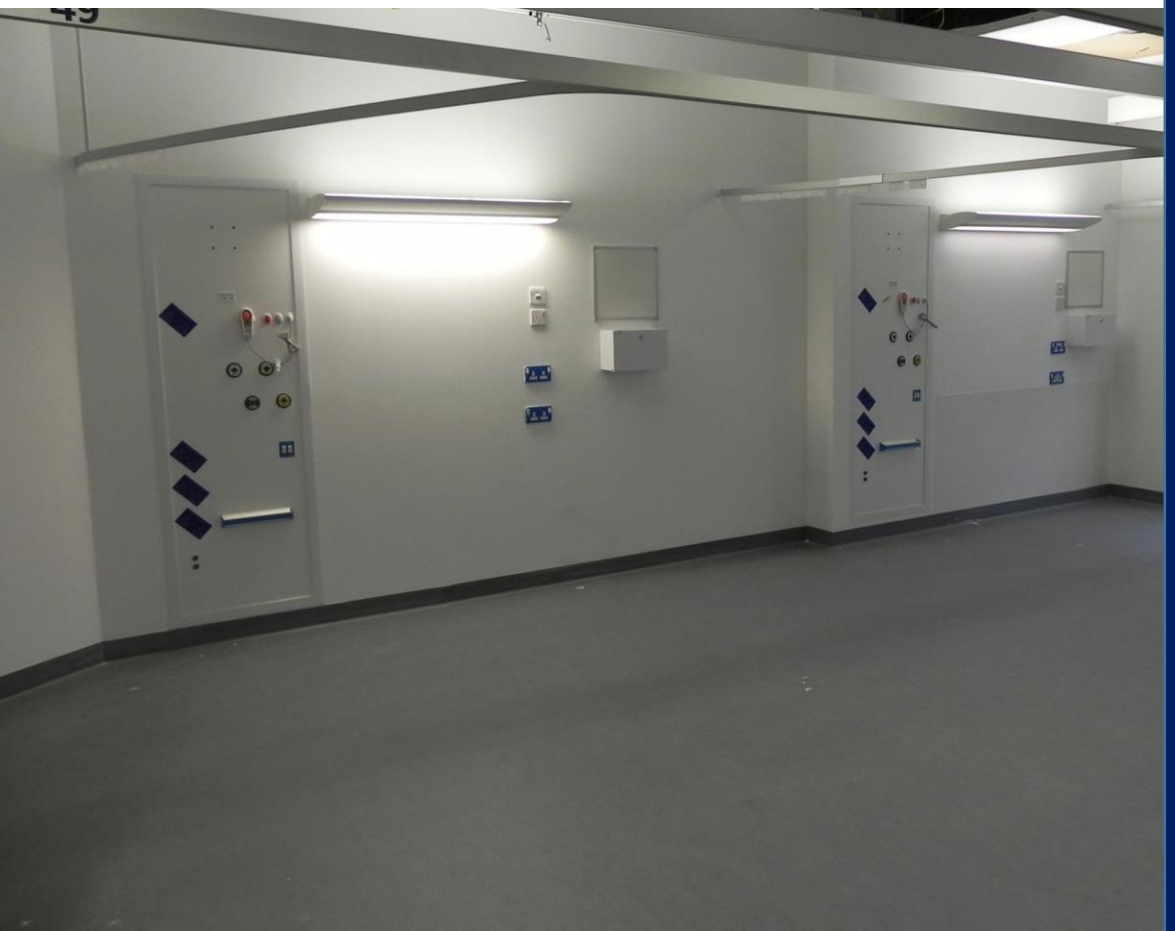






MADE IN BRITAIN
DISTRIBUTED WORLDWIDE

THE QUEEN'S AWARDS
FOR ENTERPRISE:
INNOVATION
2005



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.

We are proud of our British healthcare heritage which offers universal application around the world. Having been conferred a prestigious Queens Award for Innovation our client's take confidence in that unique recognition as a market leader.

As Britain's leading medical supply unit manufacturer our range of solutions meet a vast array of design concepts throughout all clinical environments whether primary or tertiary care areas, and every speciality in-between.

In 2005 our **integra** product range became the first and only bedhead trunking system to achieve Royal recognition with the conferment of a **Queens Award for Enterprise: Innovation** from Her Majesty Queen Elizabeth II.

Improving the clinical architecture, the patient experience and ensuring flexibility and adaptation in later use are hallmarks of our innovative integrated lighting solutions. At home 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 facia 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 facia 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

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 facia cover simply adopts a plug-and-play concept having been fully factory tested and certified. This added flexibility in programme sequencing means the facia 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 facia panel as a final fix item.

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

EMC CERTIFICATION AND COMPLIANCE

Protecting electronic components in the patent 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 ISO 11197 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.

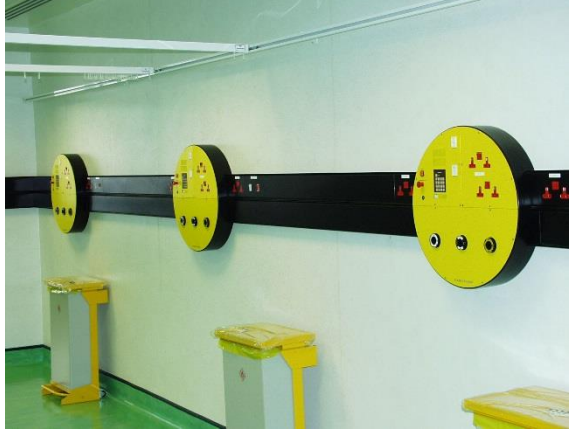
Standards compliance

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 1363-1: 1995	13 A plugs, socket-outlets, adaptors and connection units. Specification for rewirable and non-rewirable 13 A fused plugs
BS 1363-2: 1995	13 A plugs, socket-outlets, adaptors and connection units. Specification for 13 A switched and unswitched socket-outlets
BS 1363- 4: 1995	13 A plugs, socket-outlets, adaptors and connection units. Specification for 13 A fused connection units switched and unswitched
BS EN 60669-1:1999+A2:2008	Switches for household and similar fixed-electrical installations. General requirements
BS EN 60598-1:2015	Luminaires. General requirements and tests
BS 5733:2010+A1:2014	General requirements for electrical accessories. Specification
BS EN 12206-1:2004	Paints and varnishes. Coating of aluminium and aluminium alloys for architectural purposes. Coatings prepared from coating powder
BS 6701: 2010	Telecommunications equipment and telecommunications cabling. Specification for installation, operation and maintenance
BS 7671:2008+A3:2015	Requirements for Electrical Installations. IET Wiring Regulations
BS 8300:2009+A1:2010	Design of buildings and their approaches to meet the needs of disabled people. Code of practice
BS EN ISO 9170-1:2008	Terminal units for medical gas pipeline systems. Terminal units for use with compressed medical gases and vacuum (formally BS EN ISO 9170-1)
BS EN ISO 9170-2:2008	Terminal units for medical gas pipeline systems. Terminal units for anaesthetic gas scavenging systems (formally BS EN 737 -4)
BS EN ISO 7599:2010	Anodizing of aluminium and its alloys. General specifications for anodic oxidation coatings on aluminium (formally BS EN 12373:2001)
BS EN 12464-1: 2002	Light and lighting. Lighting of work places. Indoor work places
BS EN 13032-2: 2004	Light and lighting. Measurement and presentation of photometric data of lamps and luminaires. Presentation of data for indoor and outdoor work places
BS EN 61000-6-3:2007+A1:2011	Electromagnetic compatibility (EMC). Generic standards. Emission standard for residential, commercial and light-industrial environments (formally BS EN 50081-1)
BS EN 61000-6-4:2007 +A1:2011	Electromagnetic compatibility (EMC). Generic standards. Emission standard for industrial environments (formally BS EN 50081-2)
BS EN 61000-6-1:2007	Electromagnetic compatibility (EMC). Generic standards. Immunity for residential, commercial and light-industrial environments (formally BS EN 50082-1)
BS EN 50083-2:2012	Cable networks for television signals, sound signals and interactive services. Electromagnetic compatibility for equipment
BS EN 50085-1:2005+A1:2013	Cable trunking systems and cable ducting systems for electrical installations. General requirements
BS EN 50085-2: 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
BS EN 60439-5: 2006	Low-voltage switchgear and controlgear assemblies. Particular requirements for assemblies for power distribution in public networks

Document Reference	Document Description
BS EN 60529:1992+A2:2013	Degrees of protection provided by enclosures (IP code)
BS EN 60598-2-22:1998+A2:2008	Luminaires. Particular requirements. Luminaires for emergency lighting
BS EN 60601-1-6:2010+A1:2015	Medical electrical equipment. General requirements for basic safety and essential performance. Collateral standard. Usability
BS EN 60601-1-2: 2007	Medical electrical equipment. General requirements for basic safety and essential performance. Collateral standard. Electromagnetic compatibility. Requirements and tests
BS EN ISO 11197:2009	Medical supply units
BS EN ISO 7396-1:2007+A3:2013	Medical gas pipeline systems. Pipeline systems for compressed medical gases and vacuum
ISO 19054	Rail Systems for supporting medical equipment
ISO 7396-2: 2007	Medical gas pipeline systems. Anaesthetic gas scavenging disposal systems
HBN 00-03	Designing generic clinical and clinical support spaces
HBN 00-04	Circulation and communication Spaces
HBN 00-09	Infection control in the built environment
HBN 04-01	Adult in-patient facilities: planning and design
HBN 04-02	Critical care units
HBN 4, Supplement 1	Isolation facilities for infectious patients in acute settings
HBN 6	Facilities for Diagnostic imaging and interventional radiology:
HBN 07–01	Satellite Dialysis Unit
HBN 07-02	Main Renal Unit
HBN 09-02	Maternity Care Facilities
HBN 09-03	Neonatal Units
HBN 57: 2003	Facilities for critical care
HTM 02-01	Medical gas pipeline systems
HTM 06-01	Electrical services: supply and distribution
HTM 06-02	Electrical safety guidance for low voltage systems
HTM 08-03	Management of bedhead services in the health sector
HTM 17	Health Building Engineering Installations
HTM 2014	Abatement of electrical interference
HTM 2020	Electrical safety code for low voltage systems
CIBSE LG 2: 2008	Lighting guide - Hospitals and health care buildings
CIBSE LG 3: 2001	Lighting guide - The visual environment for Display Screen Use
CIE	European Lighting Guide
IEC 60364-7-710: 2002	Electrical installations of buildings. Requirements for special installations or medical locations (UK BS7671 Section 7-710)
NHS SPEC C49: 1997	Nurse Call Systems. Revision 3
93/42/EEC	Medical Devices Directive


OPH/ENT












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

Registered in England 2356618

NHS Approved Supplier

PROCURE 21+