

The role of supply chain in building better healthcare

A suppliers perspective

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Step 1

Don't get sick



Step 2

And if you do get sick...



Step 3

Die quickly.



Alan Grayson...US Democratic Congressman's recent attack on the Republican healthcare plan



- Healthcare market – a perspective
- Requirements of supply chain
- Recent innovations


Agenda



Healthcare market - a perspective

HEALTHCARE MARKET A PERSPECTIVE

- Early 1970's - DHSS Manufacturers Database.
- Perceived advantages over traditional 'heavy' construction materials:
 - Flexibility
 - Manual handling
 - Simple integration of services
 - Fast-track construction
 - Optimised spatial planning
 - Cost benefits



Healthcare market - a perspective

HEALTHCARE MARKET A PERSPECTIVE



- 1980's - DHSS MDB superseded by Component Database.
- Increasing emphasis on fire resistance
- Led by:
 - Loss of Crown Immunity
 - Implications of the guidance in 'Firecode: HTM 81 (Fire Precautions in New Hospitals)



Healthcare market - a perspective

HEALTHCARE MARKET A PERSPECTIVE



- By late 80's acoustic considerations were being increasingly addressed:
 - HTM 56
 - Simple matrix considering room adjacency relationships
 - Based on R_w (laboratory proven) performances
 - It was popular and relatively simple to use!

Healthcare market - a perspective

HEALTHCARE MARKET A PERSPECTIVE



- Publication of HTM 2045 in 1996:
 - Detrimental effects of noise pollution
 - Adverse effects on the patient
 - ▶ Sleeplessness
 - ▶ Increased heart rate
 - Adverse effect on clinical staff
- Started to focus on the 'in-situ' performance...but unpopular:
 - Not helpful from a contractual perspective
 - In conflict with other design issues (e.g. doors)
 - Theory focused – low practical context
 - No consideration for long-term acoustic requirements

Healthcare market - a perspective

HEALTHCARE MARKET A PERSPECTIVE

- Publication of HTM 08-01 in 2007:
 - Underlines acoustics as a key design consideration and determinant of material selection
 - ▶ Acoustic design integrated early
 - ▶ Practical checklists to avoid common mistakes
 - Further promotes
 - ▶ Essential sleep recovery
 - ▶ Reduced patient stay times
 - ▶ Staff conditions and morale





Healthcare market - a perspective

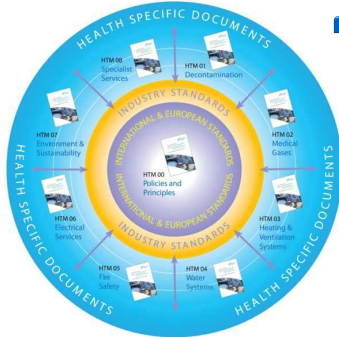
HEALTHCARE MARKET REQUIREMENTS OF SUPPLY CHAIN

- Significant shift from Chronic Care / intervention (2005) to Aged Care / maintenance (2010)
 - ~90% patient interaction at GP level (around 32,000 GP surgeries in the UK)
 - ~90% of cost is at Acute level
- Care Pathways

Home	Primary
Community	Hospital
Rehabilitation	Residential
- Supply chain needs to understand the changing needs in this delivery 'mix'.



HEALTHCARE MARKET REQUIREMENTS OF SUPPLY CHAIN



■ Design considerations and the associated guidance have become increasingly sophisticated



HEALTHCARE MARKET REQUIREMENTS OF SUPPLY CHAIN

■ 21st Century Healthcare requires materials that can improve:

- Spatial efficiencies
- Patient dignity (e.g. single bed \ single sex wards)
- Hygiene Serviceability (e.g surfaces and harbours for microbe growth)
- Air quality
- Strength & durability
- Simple integration of services
- High levels of acoustic performance
- Flexibility (future-proofing)
- Energy \ Carbon reduction
- SMART technologies (heating & cooling)



HEALTHCARE MARKET REQUIREMENTS OF SUPPLY CHAIN

■ 21st Century Healthcare needs supply chain to meet a new era with a new set of challenges:

- Health & Wellbeing
- Sustainability
- Affordability

■ Innovation and New Product Development:

- Good quality insight
- Addressing real problems \ underserved outcomes
- Eliminate cost & waste
- Client-led gap analysis



RECENT INNOVATIONS GypWall EXTREME

■ Customers told us they wanted:

- Reduced un-planned maintenance
- To avoid penetrations into the cavity
- To secure heavier items to the wall
- A lightweight solution for intensively used areas

■ GypWall EXTREME provides:

- Superior rigidity, durability and mechanical strength
- Increased resistance to deliberate and accidental damage (direct impacts & glancing blows)
- A tested solution - tests were developed to benchmark partition robustness beyond the requirements of BS 5234 "Severe Duty"



RECENT INNOVATIONS Gyproframe 92mm AcouStud

■ Customers told us they wanted:

- Minimum partition footprint
- Robust single layer solutions
- Minimal insulation in the cavity to accommodate services

■ Gyproframe 92mm AcouStud:

- Up to R_w 52 dB in with a single layer of Gyproc DuraLine
- Greater than R_w 60 dB double layer solutions
- Flexibility: A broad acoustic range on one partition footprint
- Ease of detailing: The ability to standardise partition footprints and door casings
- Single layer 60 minute, Severe Duty solutions



RECENT INNOVATIONS Thistle Durafinish

■ Customers told us they wanted:

- To maintain the aesthetic appearance of facilities for longer
- To protect the surface against damage from day to day use

■ Thistle Durafinish provides:

- A gypsum finish plaster with increased hardness - offering increased resistance to accidental damage
- Protection to areas not covered by the requirements of HTM 69: Protection



RECENT INNOVATIONS
The WHITE BOOK Health Sector Guide



Thank you

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