

silentia®



Every week...  
a jumbo jet crashes  
in the UK healthcare  
system





834,000 infections/year

28,500 deaths/year

**Cost £2.7 billion\***

\*Modelling the annual NHS costs and outcomes attributable to healthcare-associated infections in England.  
Guest JF, Keating T, Gould D, et al, BMJ Open 2020;10:e033367. doi: 10.1136/bmjopen-2019-033367



7.1m hospital bed days

21% of all bed days

**887,500 kilotonnes CO<sub>2</sub>e\***

\*Health care's response to climate change: a carbon footprint assessment of the NHS in England  
Tennison I, Roschnik S, Ashby B, et al, The Lancet, May 6, 2021, doi: 10.1016/S2542-5196(20)30271-0



Curtains are frequently touched,  
are close to the patient and are  
a proven source of pathogens





92% of privacy curtains were contaminated after one week of laundering.\*

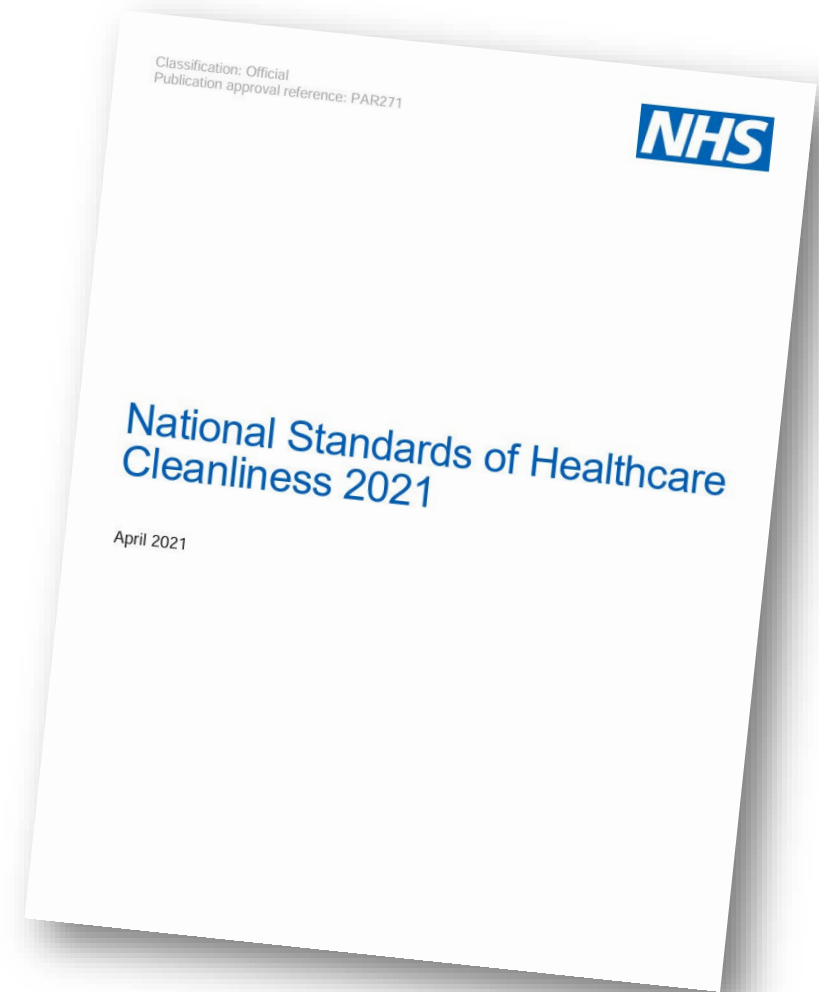
\* American Journal of Infection Control, Volume 40, Issue 10



# High frequency touchpoints

## Wards and departments:

- light switches/plastic pulls
- taps, dispensers, toilet flush handles
- door handles and push plates
- over-bed table and trays
- bed rails
- grab rails
- patient chair arms and seat
- relevant parts of notes, linen, drug and general-purpose trolleys
- nurse call buttons
- TV remote control
- bedside drawers and locker handles
- kitchen cupboard handles





## National Standards of Healthcare Cleanliness 2021 – Appendix 2

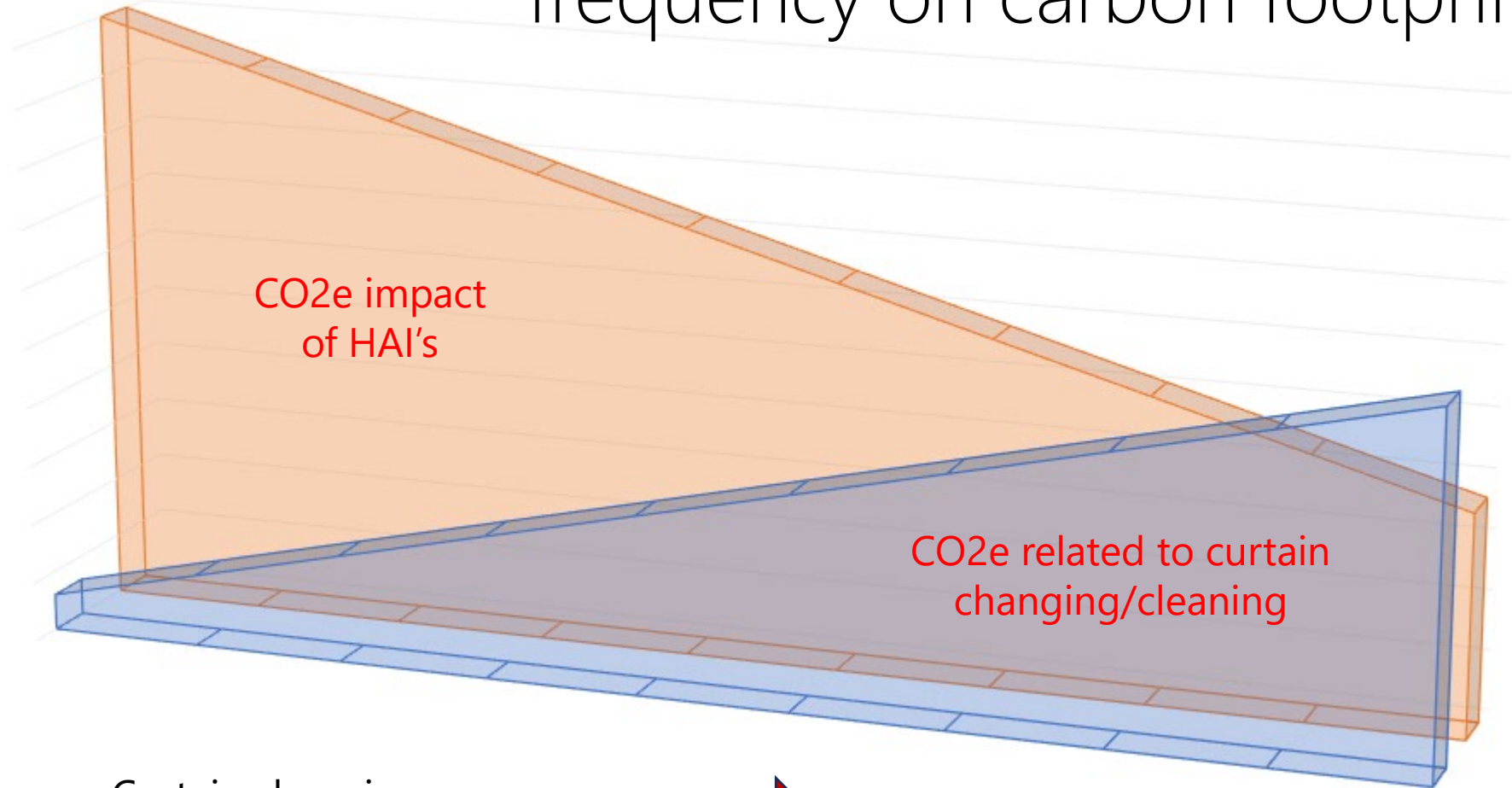
No	Element	Performance parameter	FR1	FR2	FR3	FR4	FR5	FR6
13	<b>Patient beds</b> – frame, wheels, castors, head, foot, cot sides, nurse call and control panels, including carers beds in the clinical area Non-patient beds, including on-call beds – clean as per local protocol	Frame (top and bottom), wheels, castors, head, foot, cot sides, nurse call and control panels should be visibly clean with no blood and bodily substances, dust, dirt, debris, adhesive tape, or spillages.	Full clean frame top <b>daily</b> including touch points (bed rails and nurse call button) Full clean frame bottom weekly + Full clean on patient discharge	Full clean frame top <b>daily</b> including touch points (bed rails and nurse call button) Full clean frame bottom weekly + Full clean on patient discharge	Full clean frame top <b>weekly</b> including touch points (bed rails and nurse call button) Full clean frame bottom weekly + Full clean on patient discharge	Full clean frame top <b>weekly</b> including touch points (bed rails and nurse call button) Full clean frame bottom weekly + Full clean on patient discharge	Full clean frame top <b>fortnightly</b> including touch points (bed rails and nurse call button) + Full clean on patient discharge	Full clean frame top <b>monthly</b> including touch points (bed rails and nurse call button) + Full clean on patient discharge
17	<b>Switches, sockets and data points, trunking, handrails, and wall fixtures</b>	All wall fixtures, e.g. switches, sockets and data points should be visibly clean with no blood and bodily substances, dust, dirt, debris, adhesive tape, or spillages.	Full clean <b>daily</b> including touch points ( <b>light switches/pulls, handrails, lift buttons/ plates and hand dryer buttons</b> ) + 1 check clean daily	Full clean <b>daily</b> including touch points ( <b>light switches/pulls, handrails, lift buttons/plates and hand dryer buttons</b> )	Full clean <b>twice weekly</b> + daily check clean of touch points ( <b>light switches/pulls, handrails, lift buttons/plates and hand dryer buttons</b> )	Full clean <b>weekly</b> including touch points ( <b>light switches pulls, handrails, lift buttons/plates and hand dryer buttons</b> )	Full clean <b>monthly</b> + weekly check clean of touch points weekly ( <b>light switches/pulls, handrails, lift buttons/plates and hand dryer buttons</b> )	Full clean <b>monthly</b> + weekly check clean of touch points weekly ( <b>light switches/pulls, handrails, lift buttons/plates and hand dryer buttons</b> )
43	<b>Curtains and blinds (disposable and fabric)</b>	Curtains/blinds should be visibly clean with no blood and bodily substances, dust, dirt, debris, stains, or spillages.	As per local curtain changing programme or change/clean when visibly soiled 6-monthly as a minimum	As per local curtain changing programme or change/clean when visibly soiled 6-monthly as a minimum	As per local curtain changing programme or change/clean when visibly soiled. Annually as a minimum	As per local curtain changing programme or change/clean when visibly soiled. 2-yearly as a minimum	As per local curtain changing programme or change/clean when visibly soiled. 2-yearly as a minimum	As per local curtain changing programme or change/clean when visibly soiled. 2-yearly as a minimum





# Impact of curtain changing frequency on carbon footprint

↑  
Carbon footprint



→  
Curtain changing frequency





Let's **eliminate**  
**the problem.**





Let's eliminate  
the problem.

Easy to clean  
**in-situ.**





# Company founded 1989



“Something is needed instead of curtains”



“Something is needed instead of curtains”

**Product  
1990**



**Privacy**





"Something is needed instead of curtains"

**Product  
1990**



**Privacy**



**Hygiene**





Every patient  
has the right to  
a **hygienic care  
environment.**





“Something is needed instead of curtains”

**Product  
1990**



**System  
2003**



**Privacy** .....

**Hygiene** .....





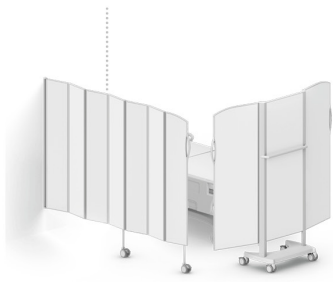
## Silentia Screen System: A versatile and cost-effective screen system that is easy to use and reuse

It's never been easier to enhance patient safety without sacrificing privacy. There are many different lengths and heights, and ways to combine screen solutions. All part of a complete system that can adapt to your specific needs. Our screens are built to outlast any other privacy solution, supported by our warranty and technical lifetime of at least 10 years. Contact your Silentia distributor for a demonstration.



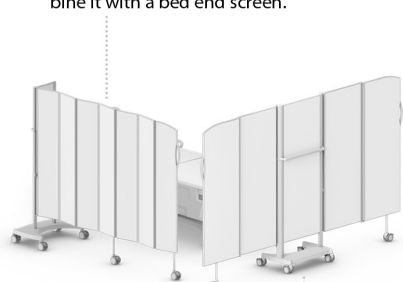
### Folding screens

The Silentia folding screen can be mounted on the wall, a floor pole or on wall rails. It can easily be mobile by clicking it on a trolley. Combine it with a bed end screen.



### Mobile folding screens

A mobile folding screen allows you to be more mobile and flexible. The wheelbase take a minimal amount of space. Combine it with a bed end screen.



### Semifix screens

The semifix screens provides endless flexibility to create privacy and optimal hygiene in large and defined spaces. It can be built in four different directions. Combines easily with folding screens.



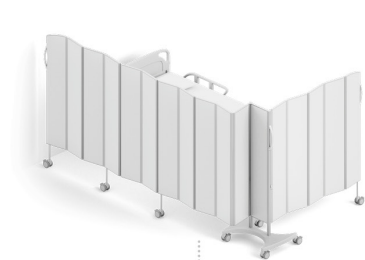
### Mobile bed end screen 1.5m

Our bed end screen provides optimal privacy at the end of the bed and quick access to the patient.



### Mobile bed end screen 2.5m

This bed end screen at 2.5m provides a larger area of protection at the end of the bed and quick access to the patient.



### Fixed screens

Our fixed screens have been developed when more permanent privacy is required. Easily combines with folding screens.



### ClearPanels™

A completely transparent, mobile screen that makes it easy to monitor and communicate with patients



### Mobile double screen, U-shape

The mobile double screen can be used in a U-shape for a movable and flexible space for optimal privacy.



### Mobile double screen, L-shape

The mobile double screen can also be used in an L-shape, to create a



### Shower screens

The Silentia shower screen makes it easy to provide patient privacy while showering alone or assisted.



### PPE holder™

This Silentia Add-on gives you easy access to hand sanitizers, gloves, wet wipes and other products.





“Something is needed instead of curtains”

**Product  
1990**



**System  
2003**



**Privacy** .....

**Hygiene** .....

**Sustainability** .....



# Future-proofing patient privacy

## **5 Eco Design Principles**

- Hygiene
- Safety
- Durability
- Reusability
- Repairability

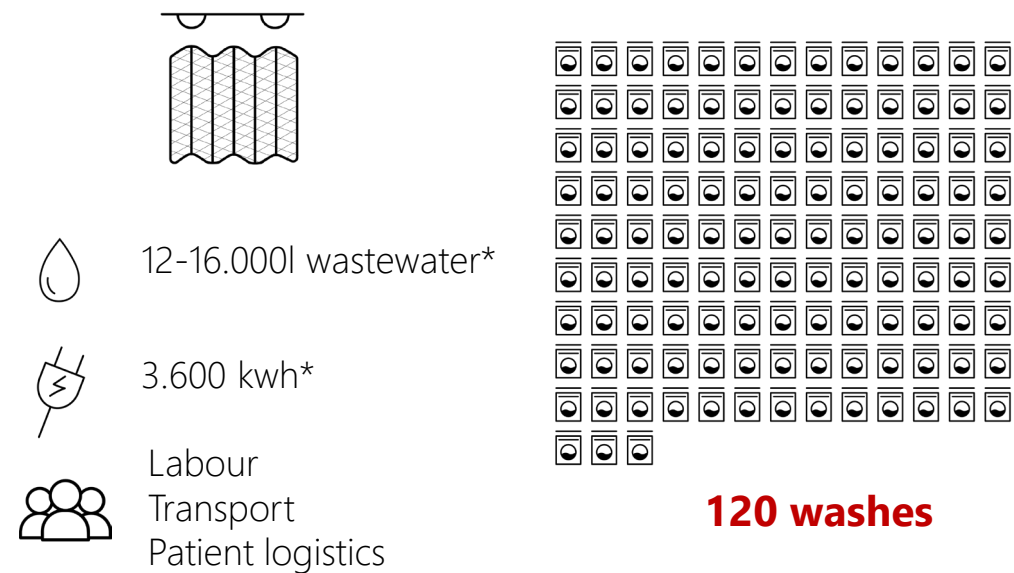
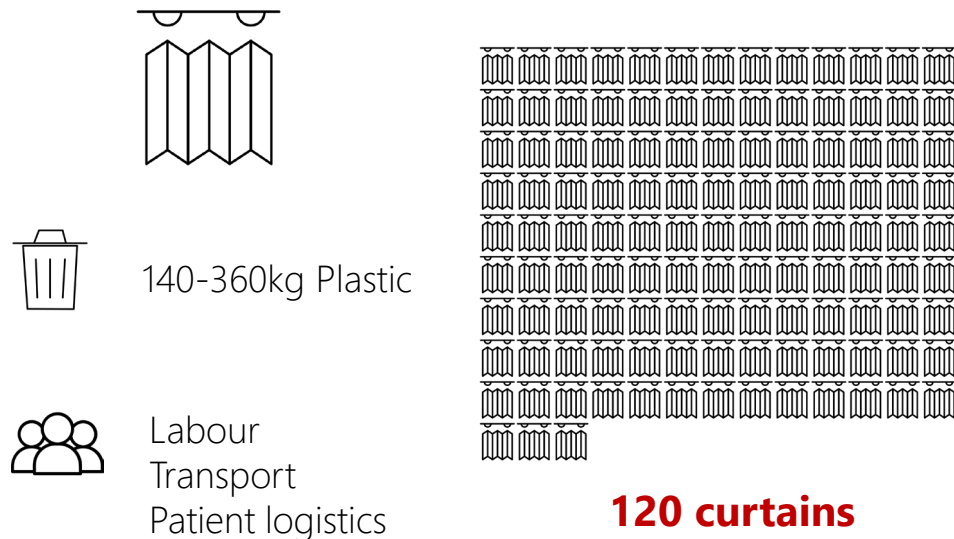




# 10 years of patient privacy, for a single hospital bed

**Disposable curtains** - exchange once per month

**Textile curtains** - launder once per month



\*Data from Danish hospitals and E.S.T.A (2000)



10+ years of privacy from one screen



**Comprises 16kg materials including:**

- Cardboard
- Laminate
- Aluminium
- Small amounts of plastic, glue & steel



## Lower total cost of ownership



Resource efficiency also means cost efficiency

**Return on investment in  
3 years or less**



10+ years of privacy from one screen



**Clean in-situ**



**No in-service waste**



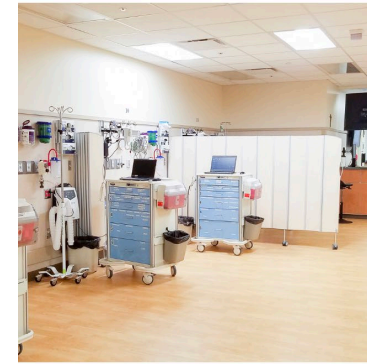
**No laundry**



**No energy consumed**



# Installation examples



Keep it Clean





# Golden Jubilee National Hospital - Glasgow



157 screens installed in 2011 and still in service after 12 years.

**“There is a high level of cleaning of these screens. You wouldn’t be able to do this with curtains.”**

**Robert Gray**

Senior Manager, Infection Prevention & Control



# Central Hospital Växjö



First screens  
supplied by Silentia  
in 1990, many of  
which are still in  
service.



# Antwerp University Hospital



Screens supplied in 1991 also still in use today.

Screen design in relation to durability and simplicity has only improved in 30 years



# Aarhus University Hospital - Denmark



Largest hospital in Denmark

1,400 screens installed between  
2015 and 2017

Only 5 repairs required to date  
(due to accidental damage, not  
failure)



# Screen repurposing at Gødstrup, Denmark



New Gødstrup regional  
"super-hospital"

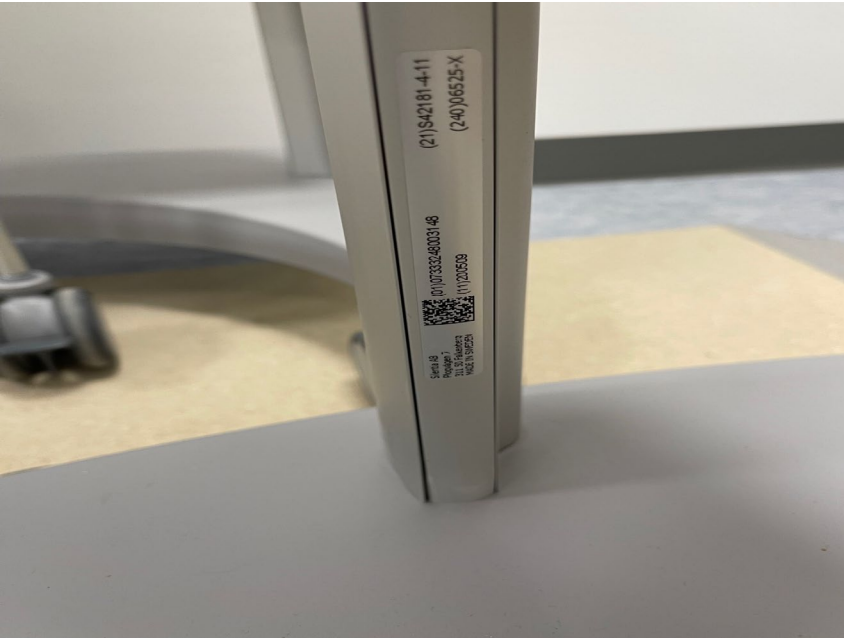
409 beds & 3,500 employees

Replacing 2 old local hospitals

Existing equipment was saved  
& repurposed



# Screen repurposing at Gødstrup, Denmark



Our *EasyLog™* system helped catalogue and relocate over 100 screens from the old hospital yielding major cost savings and upwards of 1.6 tons of materials.



# Case stories

**Case Story** 20EN/2012

## Hassle-free screens boost infection prevention and control and dignity

Why install screens at a largely single-bedded room hospital? At Scotland's impressive Golden Jubilee National Hospital, managed by the National Waiting Times Centre Board, large doors of the single bedded, private rooms are invariably left open to allow nursing staff to easily check on the occupants.



Full-screen curtains were previously used to screen off the door for privacy while doctors or nursing staff were in attendance or visitors were present. Yet the curtains presented their own problems, as serious infection prevention and control staff at Golden Jubilee Hospital said. "We were not happy with the curtains, something that was clean and that would reduce laundry costs."

"With curtains you've got the hassle of removing them and the issue of staining. In fact, we had three different sizes of curtains - a highly flammable alternative which gives privacy and dignity, with an easy to clean and highly manoeuvrable solution. They are ideal for quickly creating a separate room within a room. However, with curtains being there to further infection and warding off germs, the particular benefits are disposable, the particular benefits are that they are made from a hard, cleanable material. Silentia's screens have a hard, cleanable surface that is easily wiped down. Just like any other hard surface, it can be cleaned with hospital disinfectants. A boon to improving patient privacy and dignity, the screens also reduce noise and provide a more private communication to be held in the room. In fact, the screens have been a real success story for the hospital. We've averaged a presentation by Silentia, who brought some sample screens," said Robert. "They did a presentation to warding staff, infection prevention and control and nursing staff. The 157 Silentia screens were chosen by the Golden Jubilee and other senior role people while other senior role people were suggested eight or nine months ago and we gradually being phased in across the hospital. It was a real success story for the hospital. We chose it as a screen because it was so easy to use and it was so easy to clean. Add-up easily and can be cleaned in situ."

"We got the whole of the supply towards the end of the last financial year. Pricing was

*Opinion by Thomas Baker, Director*

**Case Story** 34US/2010

## Transforming the NICU at Community Memorial Hospital

In 2010, the Neonatal Intensive Care Unit at Community Memorial Hospital in Ventura, CA was moved to a new location, providing them with a much larger delivery space and recovery ward. Deborah Hill, Clinical Nurse Manager, saw an opportunity to re-envision the NICU environment. The need for reliable, multi-purpose hospital equipment was key to creating the ideal NICU environment.



**THE IMPACT OF PRIVACY AND DESIGN**

"Silentia helped bring our vision to life and recommended a design that was really easy for us."

For the NICU team at Community Memorial Hospital, the ability to create a private, calm, infection prevention and control environment was key. The 157 Silentia screens were chosen by the Golden Jubilee and other senior role people while other senior role people were suggested eight or nine months ago and we gradually being phased in across the hospital. It was a real success story for the hospital. We chose it as a screen because it was so easy to use and it was so easy to clean. Add-up easily and can be cleaned in situ."

"We got the whole of the supply towards the end of the last financial year. Pricing was

**Case Story** 25EN/2015

## From curtains to hygienic screens. The trend is clear from hospital to hospital.



**Many hospitals and clinics are replacing all patient curtains with hygienic folding screens to prevent the spread of micro-organisms.**

Screening eliminates risk factors. It is a key risk factor throughout the hospital. The hospital is committed to reduce patient contact with folding screens in every department as a way to prevent the spread of micro-organisms.

**BEST SOLUTION - HYGIENICALLY AND FINANCIALLY**

At a county hospital in Denmark, the management decided to equip the hospital with hygienic Silentia folding screens in a single swing, as this was the most hygienic and cost-effective solution. The decision was taken after a thorough cost-benefit analysis. The decision was taken after a thorough cost-benefit analysis. The decision was taken after a thorough cost-benefit analysis.

**Case Story** 28EN/2018

## Screens with motifs make a huge difference for children and staff



Flexible and hygienic. The screen with motif makes a calm atmosphere in the bed units with three large 4-bed rooms.

**CALM AND COMFORTABLE CHILDREN**

The staff work closely with colors, motifs and stories to make children who have been admitted calm and comfortable. The design is inspired by Danish design and the design goes across the ambulatory units, examination rooms and considers in the bed units and treatment rooms.

**FACTS:**

Art and pictures have a stress-reducing effect by allowing patients to think about something other than their condition.

Folding screens with art or photos helps the child to focus on something new and positive. The child starts using its fantasy and imagination. Changing focus to something new and positive.

**Case Story** 32EN/2019

## First hospital in Switzerland to remove all curtains



The new Children's Hospital in the Swiss Alps is the first hospital in Switzerland to have removed all curtains.

It was a real success story for the hospital. We chose it as a screen because it was so easy to use and it was so easy to clean. Add-up easily and can be cleaned in situ."

"We got the whole of the supply towards the end of the last financial year. Pricing was

Over 40 case stories at [silentia.co.uk](http://silentia.co.uk)



# A few of our UK customers



*The* ROYAL MARSDEN  
NHS Foundation Trust







Silentia Headquarters





# Working towards net zero manufacturing



Annual sustainability reporting for all our products in advance of the NHS 2028 target.



Circular economy programme will allow components to be recycled at end of life.



Our factory in Sweden is already using renewable energy based on wind power.



Main raw materials including aluminium and compressed cardboard are sourced locally in northern Europe, a large percentage of which are made from recycled material





Thank-you

Keep it Clean

