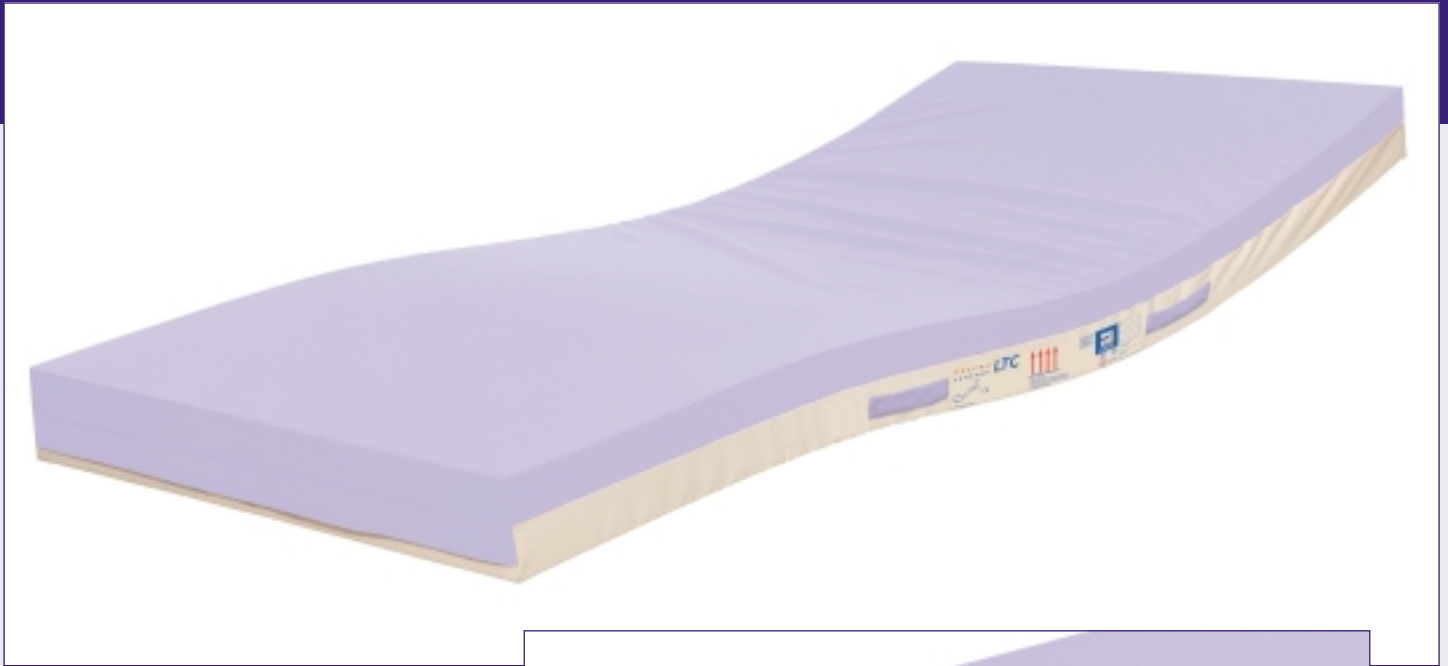


'The Art of Pressure Ulcer Prevention'

LTC Solutions for Long-Term Care



Mattress



Lower Leg Support



Seat Cushion



Thermo
contour®



The Art of Pressure Ulcer Prevention

THE CONCEPT

A mattress used for long term care must be different from a hospital mattress and certainly different from a domestic mattress. The domestic mattress is made from a wide variety of materials from interior springs covered with felt and a quilted cover; to a slab of foam with a zipped cotton cover.

The hospital mattress must respond to a wide range of patient ages and weights, and be robust enough to meet the daily challenges of patient handling and treatment, coupled with 24 hours a day compression.

PROFILE OF A LONG-TERM CARE PATIENT

As we grow older we are not so active. We need a very comfortable and practical bed and mattress. Our body weight tends to be lower than a vigorous athlete, and adjustments must be made accordingly. We tend to need less sleep, and the quality of sleep may lessen. The skin becomes more fragile especially where it covers the joints. The risk of pressure ulcer development needs serious attention. 80% of patients requiring at least some level of help are over 75, and a significant proportion over 80.

The risk of pressure ulcer development is very great in this group.

As producers of the widely accepted Thermo contour mattress and seat cushion for hospital use, we are seeing more and more of our mattresses transferred from the hospital to care homes for the elderly, and to the private home.

Hundreds of hospitals around the world, thousands of nurses, and hundreds of thousands of patients bear witness to their effectiveness and comfort.

There is a growing need for a Long Term Care mattress designed for the purpose.

THE LTC MATTRESS

It should be firm enough to hold the body correctly without being so firm that it forces the body into an

uncomfortable position, and soft enough to reduce pressure which can lead to pressure ulcers.

The cover must be easily cleaned and protect the mattress from accidental spills, which preserves the dignity of the elderly person, eliminates contamination and reduces infection.

Drawing on 15 years hospital and nursing home experience, Thermo contour has developed a mattress specifically designed for elderly people with reduced mobility and lower body weight.

DESCRIPTION

The replacement of a standard domestic mattress needs to meet the following criteria:

- Comfort
- Maintain pressure relief over the life of the product
- Durable
- Easy to clean breathable waterproof cover
- Holds bed sheets in place
- Good price

A visco elastic surface with firm support layer covered with a polyurethane cover with welded seams for cleanliness. The zip closure is protected by a welded cover to protect the mattress inner from accidental spills.

Most domestic mattresses are normally 20 cms thick (8 inches). This can be unstable and lead to patients falling out of bed too easily. 12 cms (4 inches) is more stable and sufficient for a technically superior mattress specially designed for a long term environment.

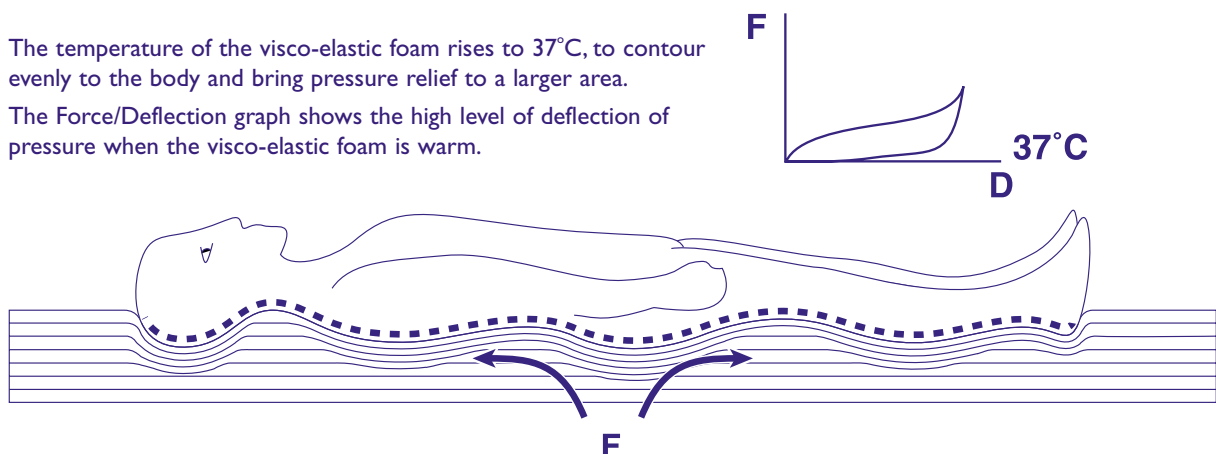
The mattress is available in different sizes according to the length and width of the bed.

To complete the range, a seat cushion and a lower leg support are available.

The colour is an attractive lilac, with a non-slip cream underside.

The temperature of the visco-elastic foam rises to 37°C, to contour evenly to the body and bring pressure relief to a larger area.

The Force/Deflection graph shows the high level of deflection of pressure when the visco-elastic foam is warm.



Extracts from: An Analysis of the International Pressure Ulcer Prevalence Survey.

“ INTRODUCTION

Pressure Ulcers (PUs) remain a significant problem for patients and healthcare facilities. Little is published regarding the demographics of pressure ulcer patients. This report summarizes the data from the International Pressure Ulcer Prevalence Survey results for patient BMI, weight, and age of patients in whom PUs were identified.

METHODS

Clinical teams assessed all admitted patients in participating facilities. Clinical assessments are recorded and analyzed at both the facilities and aggregate data levels.

RESULTS

Height and weight was available in 64,372 (70%) of the 92,192 adults surveyed with weight only available in 4,592 patients.

THE TOTAL (POPULATION) AVAILABLE FOR ANALYSIS WAS

68,964 patients

5.5% were considered underweight (BMI < 18.5); 31.3% normal (BMI 18.5-25); 27.7% overweight (BMI 25-30); 25.7% obese (BMI 30-40); 12.7% excessively obese (BMI >50).

PU prevalence was greatest in

- 25% of the underweight 100 lb (45 kgs) class;
- 17% in the normal weight 140-170 lb (63-78 kgs) class;
- 10% in the overweight 200-250 lb (90-113 kgs) class;
- 12.2% in the 245-311 lb (110-140 kgs) obese class;
- 19% in the over 500lbs (227 kgs) excessively obese (bariatric) class.

Classified by BMI, 35.5% is classified as obese, but only 7.5% is over 250 lb (114 kgs)

87 of the facilities used the Braden risk assessment tool. All healthcare segments had many patients who developed ulcers were assessed low risk (Braden 15-18) or no risk (Braden 19-23).

CONCLUSIONS

PUs were more common at either end of weight distribution, with more severe ulcers developing in underweight patients. The Braden Scale predicts pressure ulcers, but patients at “low risk” or “no risk” still can acquire PUs. ”

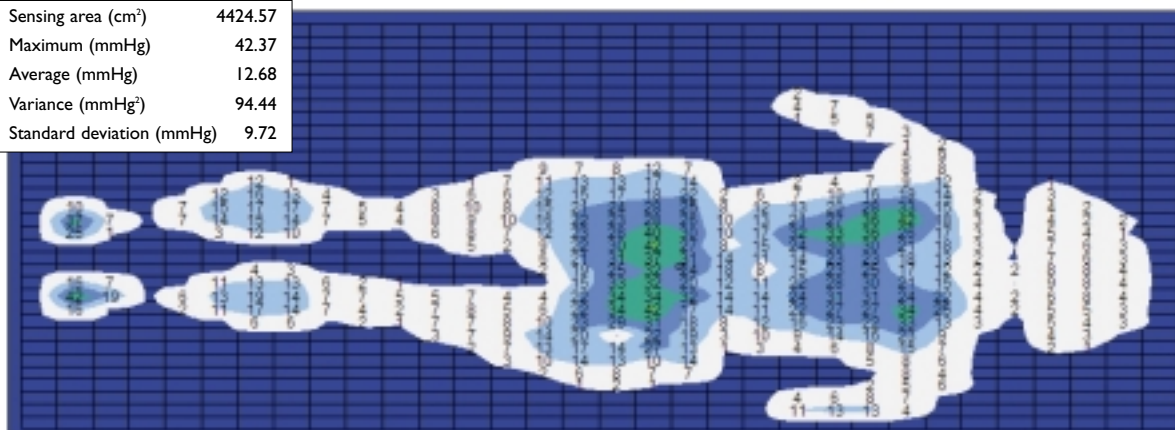
Use of appropriate, good quality, mattresses and seat cushions offer high levels of PU prevention.

LTC Mattress – Interface Pressure Map (mmHg)

Female 62 kg

Position Flat – After 5 Minutes

Sensing area (cm ²)	4424.57
Maximum (mmHg)	42.37
Average (mmHg)	12.68
Variance (mmHg ²)	94.44
Standard deviation (mmHg)	9.72





LTC Mattress

Description

Visco elastic. Prevents pressure ulcer development for patients at HIGH RISK

Weight

c. 10 kgs

Patient Comfort

Patient weight 30 - 110 kgs

Non allergenic

No latex

X-ray translucent, Anti static

Öko-Tex Standard 100 Test No 40566 - free from harmful substances

Guarantee

Full replacement 7 year performance guarantee

Fire Safety

Certified to standards:

EN 597 1&2; BS 6807 crib 5; BS 5852 part 2;

UNI 9175 Class UNO EMME;

SS 876001

Certification

CE 93/42-Class I. Reg No. CA000081-May 1995

FDA-9617156-1999

EU Registered Design 112164

Quality Assurance Certified by Bureau Veritas Denmark to ISO 13485-2003

“Vigilance™” Covers

Description

All Thermo contour products use a multiple stretch textile coated separately 3 times with polyurethane to ensure a waterproof and vapour permeable cover.

Distinctive colour for ease of recognition. Cream colour underside. Registered copyright design.

Features

Smooth surface ensures easy body positioning.

Non-slip underside stops bed sheets slipping out of place and holds the mattress in place on the bed.

Service life: 5 years.

Physical Testing

Test	Result
Hydrostatic head - (water column)	200 cms
Vapour permeability	676 g/M2/24hrs/38°C
Free from harmful substances	Öko Tex Standard 100
Bacteria and fungus free	Sanitized® Licence no: 1231.99
Hydrolysis resistance	No strike through

Safety features

Fire resistance - BS 7175 I.S. 5

Resistance to diluted disinfectants - manufacturers reports

Bacterial resistance - SN 195 920

Mycotic resistance - SN 195 921

Dust mite resistance - PLA/MIT/DAHI

Anti static qualities - DIN 53482

X-ray transparent

Latex free

Cleaning

Wipe over with detergent solution or normal hospital disinfectants (see list Cleaning/Instructions for use)

Machine washable up to 95°C

Sterilisation by dry autoclave - 110°C - 10 minutes B-7033.
Not suitable for steam cleaning.

**Thermo
contour®**



The Art of Pressure Ulcer Prevention

BARRINGTON HEALTHCARE INTERNATIONAL LIMITED

www.thermocontour.com

info@thermocontour.com

Thermo contour is the registered Trade Mark of Barrington Healthcare International.

© Barrington Healthcare International 2007