REPORT

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Client	Client's ref. no.	
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Object

The objective of this project was to determine the pressure distribution properties of a foam mattress.

Test material

1	Melissa 12 + RX-5, Foam mattress with red cover, 200x85x13 cm, art. no. 11-000101-002

Conditioning and test climate: The test material was conditioned at least 24 hours prior to the testing in 20 (±2)°C and 65 (±4)% relative humidity, which was also the test climate.

The determination of pressure distribution properties was conducted according to the standard SS 8760013:2017 – Determination of contact pressure on mattresses, beds and other underlay. In this method indentors are used together with a pressure sensor (in this commission the type Xsensor PX100 was used) to measure the maximum pressure between the indentor and the test object. Three different loading conditions are used according to the table below. During the measurements the indentors were in contact with the test object for 1 minute before a reading were made. The maximum pressures are defined as the average value (in the unit mmHg) of the 10 and 5 highest pressure values respectively for the large and small indentor. Measurements were made in 5 different measuring points according to the figure below. The results from this kind of pressure measurements may be affected by factors related to the equipment and measurement procedure used. The measuring procedure applied at RISE IVF takes this into account and is intended to give as good repeatability and reproducibility as possible.

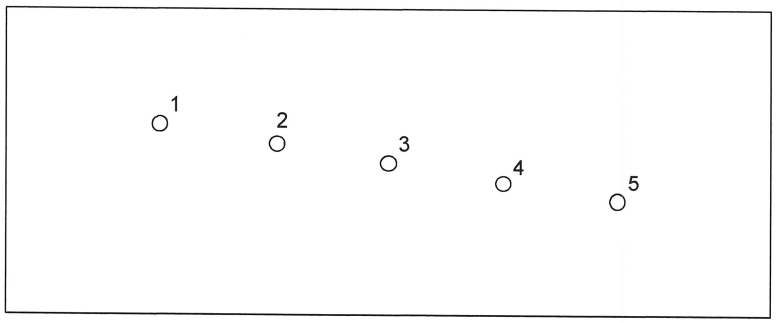


Figure 1. The positions of the measuring points. The head end is towards the right. Point 1 and 5 are 30 cm from the nearest long side and 50 cm from the nearest short side, and the other points are evenly distributed along the line between them.

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Table 1. Table showing the loading conditions used in the pressure distribution test.

Indentor	Load	Simulated loading condition
Large indentor	300 N	The load from buttocks or upper part of the back of a person (man with normal body size) lying on the back.
Large indentor	600 N	The load from a heavy person during turnings, sitting or lying on the side.
Small indentor	40 N	Load related to small body parts (for example elbows or heels).

The results of the measurements are shown in the table below.

Table 2. Results for test material 2

Indentor	Measuring points					Mean (mmHg)
	1	2	3	4	5	
Large indentor (300 N)	27.2	27.0	26.4	26.9	26.1	**27**
Large indentor (600 N)	47.8	46.8	46.5	47.7	46.7	**47**
Small indentor (40 N)	44.3	43.5	46.6	46.8	44.5	**45**

All results relate only to the material tested.

Mölndal, 2020-11-26
RISE IVF AB
Textile Materials and Products

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