

Much more than just investment security: the wissner-bosserhoff path to implementing the new bed standard

The wissner-bosserhoff concept

The new bed standard DIN EN 60601-2-52 is marked by a significant improvement in patient safety through thorough risk prevention in the course of daily treatment and nursing care procedures in every clinic. After a transition period until about December 2012, all beds purchased from that time must comply with the requirements of the new standard. For wissner-bosserhoff, it is an obvious matter of responsibility not only to protect the investments of customers by meeting all measurement and assessment criteria, but to additionally interpret the spirit of the standard in such a way that an increase in safety is achieved in especially critical situations – for the wellbeing of the patient and to guarantee an efficient working environment, especially for the highly-stressed nursing staff.

Added safety due to the wissner-bosserhoff central gap solution

For good reason, the new standard addresses the area of the central gap for the use of beds with divided side guards, and stipulates that, for a horizontal patient surface, the resting position of a bed, the space between the side guards must be smaller than 60 mm or larger than 318 mm. This prevents that the patient can slip through the two side elements in an unnoticed moment and become entrapped in the chest area – such an accident could entail serious damage to health, and even result in death.



eleganza smart
"hotel design" / resting position

According to studies by the American FDA* which were of high relevance in preparing the new standard, some 3.5 % of all entrapment accidents involving side guards during the observation period from 1985 to 2006 resulted from this hazard potential in the central gap. A publication of the BfArM** in Germany from 2004 (examination period 1996 to 2004) makes this even clearer: According to this, of 39 entrapment incidents with side guards, 33 involved the head and chest, and 10 of these cases involved the central gap between the divided side guards.



* FDA = Food and Drug Administration, Silver Spring, USA

** Bundesinstitut für Arzneimittel und Medizinprodukte [Federal Institute for Drugs and Medical Products], Berlin, Germany

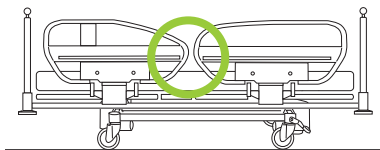


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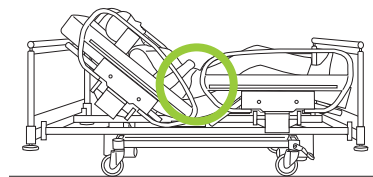
wissner-bosserhoff is not satisfied in reducing this patient risk just for the horizontal resting position of its beds, which would already be in conformance with the standard for a central gap > 318 mm. On the contrary, the special wissner-bosserhoff side guard concept, based on a risk-oriented, deliberate decision for a solution with a central gap smaller than 60 mm ensures that the required space for the central gap is also guaranteed in the working position with the backrest raised, whether this be in the Cardiac Chair position or in the autocontour position, as used often in every-day nursing home operation. Without the use of additional accessory parts, such as central gap protectors that have to be purchased and stored separately, wissner-bosserhoff beds always comply with the requirements defined in the standard for central gaps with raised side guards, in all working positions.

From an investment security perspective, this results in lasting advantages:

- Patient safety in every working position
- Legal security for nursing staff without having to comply with additional requirements such as attaching central gap protectors
- Working effectively and efficiently by the hospital bed
- No additional costs for safety accessories



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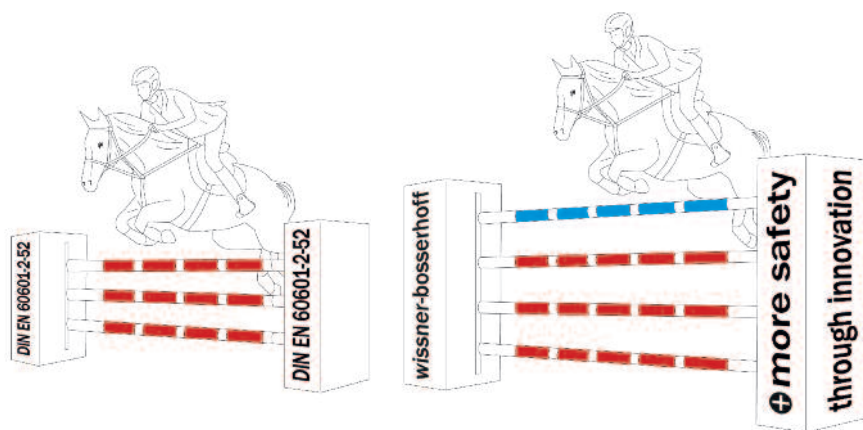
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These advantages extend even further if you consider the restraint of patients with special belts required at times. The wissner-bosserhoff side guard concept provides a simple and safe method of attaching the abdominal restraint belt without the additional use of central gap protectors being necessary.

The wissner-bosserhoff way of implementing the new bed standard creates additional customer benefits through a safety-oriented interpretation of the standards – not only, but especially in the matter of central gap safety.

Some horses jump higher than they have to



Requirements in terms of the central gap by the new standard*

- Gap smaller than 60 mm or larger than 318 mm, measurement with raised side guards
- Test with central gap > 318 mm with flat patient surface (resting position)
- With central gap < 60 mm – additional test with raised patient surface (working position)

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wissner-bosserhoff side guard concept

- Deliberate compliance with new standard through small central gap solution with gap smaller than 60 mm
- Safety in working position, i.e. even with raised backrest or leg rest
- Safety without the use of an additional central gap protector as an accessory
- Safety without the use of an additional central gap protector when restraining with abdominal belts in accordance with BfArM recommendation**

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Customer benefits

- Security of investment
- Patient safety in every working position
- Legal security for nursing staff without meeting additional requirements
- Working effectively and efficiently
- No additional costs for safety accessories
- Working efficiently with restraining belts

* Central gap = distance between divided side guards

** BfArM = Bundesinstitut für Arzneimittel und Medizinprodukte [German Federal Institute for Drugs and Medical Products], Berlin, Germany

Information for specialist circles, dated 12/04/2003



Strojirenský zkušební ústav, s. p. (Engineering Test Institute, Public Enterprise)
Hudcova 56b, 621 00 Brno, Czech Republic

CERTIFICATE

Number: **B-39-00898-10**

Manufacturer: L I N E T spol. s r.o.
Želevčice 5, 274 01 Slaný
Czech Republic
Company ID: 00507814

Product: Hospital Positioning Bed LINET

Type designation: Eleganza Smart

The Engineering Test Institute hereby certifies that the characteristics of the sample of the product concerned have been found to be in conformity with applicable requirements of

IEC 60601-1:2005 (idt. EN 60601-1:2006 a ČSN EN 60601-1 ed.2:2007),
IEC 60601-2-52:2009 (idt. EN 60601-2-52:2010), ČSN EN ISO 5349-1:2002.

The present certificate has been issued on the basis of Test Reports No. 39-8840/E and No. 39-8840/V of 2010-08-31 and No. 39-8937/E of 2010-11-30, issued by Engineering Test Institute.

The rules for using the Certificate are specified on Page 2.

Brno 2010-11-30



Petr Mašek
Director

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Želevčice 5, 274 01 Slaný
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IEC 60601-2-52:2009 (idt. EN 60601-2-52:2010), ČSN EN ISO 5349-1:2002.

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