



To:
Cc: BC, BJ, HE, SS Ranpak
From: Ger Teheux
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PadPak® Package Designs for figurine

Dear

A PadPak® Package Design was made for figurine, which was supplied by your company. Following is a step-by-step pack instruction how the figurine was packed with PadPak® Paper. In addition, we performed a comparative drop test.



PadPak® Package Design for figurine

Used your current box.

1. Produced two 75 cm pads. Folded the pads to double layers. Placed the pads crossed on top of the box.



2. Placed the figurine centered on top of the pads.





3. Lowered the figurine together with the pads to the bottom of the box.



4. Folded the protruding pads over the figurine. The box is now ready to be closed.



The total amount of PadPak[®] that was used in this design is 1,5 m.

Drop testing

To get an indication of the cushioning performance of the new PadPak[®]-package design versus the current packaging material, we performed drop tests. The figurine was dropped from an 80 cm drop height. This drop height is typical for packed products with a weight between 0-10 kg.

The figurine received a flat bottom drop, because flat bottom drops occur in 70% of all cases. Besides that, flat bottom drops are the most devastating drops to packed products. The G-values of the shocks were measured. The lower the shock, the lower the G-value and the better the cushioning properties were. Results are shown in the table below. Graphs of all performed drops are attached to this document.

Drop height 80 cm	New PadPak [®] design	Current package
Figurine	37,50 G	64,47 G



Summary / Comment

To pack your products we used 2-ply 70/70 PadPak®-paper. This quality provides excellent cushioning and fixation to your products.

Thank you for the opportunity to work on this project.

Sincerely,

Ger Teheux
Packaging Engineer

Proprietary information

This information is the property of Ranpak. All information contained herein is confidential and proprietary and is not to be disclosed to others and/or used without the written permission of Ranpak.

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