

# Certificate of shape stability

1. Ref. transp. packaging unit: Wienerberger 1020x720 LAN 240x115x71 384pcs - 2 straps

**2.** Ref. measuring report: Wienerberger nv - 20190624009

**B.** Company: Wienerberger nv

4. Performed test: Acceleration test according to: Be RD of April 27th 2007, EUMOS 40509,

**5.** Date: 31/01/2019 EN12195-1:2010

**6.** Description of the tested transport packaging unit

Description

A wooden 1020x720 pallet containing 10 layers. In total there are 384 bricks LAN 240X115X71 on the pallet. There are 2 (16x0,89mm PET) vertical straps in the BP-direction.

Primary packaging: / Secundary packaging: /

<u>Tertiary packaging:</u> Stretch film: □Stretch hood: □ Shrink hood: ✓ Straps: ✓

Add transport packaging: Vertical straps

Anti slip up the pallet:

Anti slip up on layer(s):

Stacking pattern: Interlocked

 Pallet\_type:
 1020x720
 # Layers:
 10

 Height [mm]:
 1150
 Weight[kg]:
 1230

<u>Length - LP [mm]:</u> 1020

<u>Width - BP [mm]:</u> 720

7. Name and signature responsible of the packaging:

**8.** Test conditions: Relative humidity: 48% - Temperature: 20°C - Sliding of the pallet is prevented mechanically.

Picture in the BP-direction after the test.







#### 10. Conclusions:

The tested load unit is shape stable in the BP-direction at 0.5g under the specified test conditions. The tested load unit is shape stable in the LP-direction at 0.5g under the specified test conditions.

Wafelstraet 46 8540 Derlijk België

**11.** Name and signature responsable of the test: Ing. J. Dendauw



TEST REPORT of the ACCELERATION TEST based on RD of April 27th 2007, EN12195:2010, EUMOS 40509

Ref. transp. packaging unit: Wienerberger 1020x720 LAN 240x115x71 384pcs - 2 straps

Ref. measuring report: Wienerberger nv - 20190624009

## **Specifications of the test**

## Client

<u>Company:</u> Wienerberger nv <u>Address:</u> Kapel Ter Bede 121

8500 Kortrijk

België

<u>Contact pers.:</u> Danny Wallaert Tel. nr.: +32 (0) 56 24 96 27

<u>Fax nr.:</u> - Mob. nr.: -

<u>E-mail:</u> Danny.Wallaert@wienerberger.com

## Test details:

Test facility: ESTL nv, wafelstraat 45, 8540 Deerlijk, België

<u>Test responsible:</u> Ing. Jelle Dendauw

Test equipment: MJ1500 acceleration bench

<u>Test date:</u> 31/01/2019

<u>People attending:</u> Jelle Dendauw (ESTL), Danny Wallaert (Wienerberger), Kristof Decroos

(Wienerberger)

Temperature [°C]: 20
Rel. humidity [%]: 48

<u>Load conditions:</u> Sliding of the load unit is prevented mechanically.

Attached documents to the report: /

## Goal of the acceleration test

According to the Belgian RD\* of April 27th 2007, EUMOS 40509 and the EN12195:2010, a load securing layout has to be capable of withstanding certain forces of inertia. These forces amount to 0,8g in forward direction, 0,5g in rearward direction and 0,5g in the sideward directions. The acceleration test allows for an unambiguous assessment of a certain load unit, secured in a specified manner, with the rules and regulations of the Belgian RD.

A load unit is placed on a platform and is secured in the correct orientation and according to a specified securing layout. The platform is then accelerated at 0,8g or 0,5g to imitate the influence of the forces of inertia originating from the forward deceleration as prescribed in abovementioned RD. The stability of the load unit is then assessed. If the load unit is deemed stable, it is rotated 90 degrees, together with the securing layout. Next, the platform is accelerated at 0,5g to imitate the influence of the forces of inertia originating from the sideward acceleration prescribed in abovementioned RD. After this test the stability of the load unit is assessed once again.











**Reference** 20190624/009 **Company:** Wienerberger nv

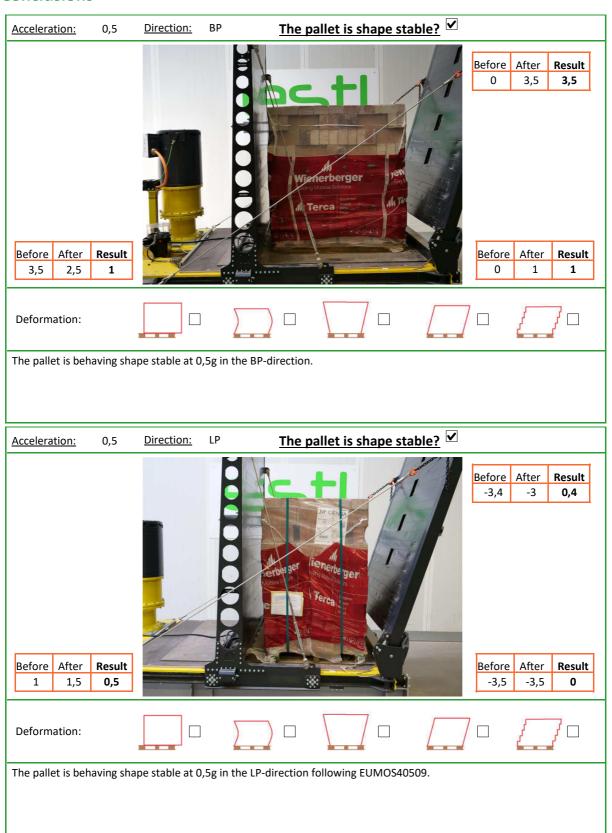
Author Dendauw Jelle

**Contact** Danny Wallaert

Date: 31/01/2019

Pallet name Wienerberger 1020x720 LAN 240x115x71 384pcs - 2 straps

#### **Conclusions**













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Author Dendauw Jelle

**Contact** Danny Wallaert

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Pallet name Wienerberger 1020x720 LAN 240x115x71 384pcs - 2 straps

## **General remarks and conclusions**

## Conclusions:

- The pallet is behaving shape stable in the LP- and BP-direction at 0,5g following EUMOS 40509.
- Tilting should be avoided on truck level

## **Hood specifications**

**Hood reference:** Techno Sales Thickness [µm]: 120 Hood\_Type: Shrink hood Initial dimensions [mm]x[mm]: Х Vertical stretch [%]: Hor. stretch long side [%]: Hor. stetch short side [%]: Configuration of the hood: **V** 



LP [mm]:

1020 BP[mm]:









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**Author** Dendauw Jelle

Contact Danny Wallaert

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Company: Wienerberger nv Pallet name Wienerberger 1020x720 LAN 240x115x71 384pcs - 2 straps

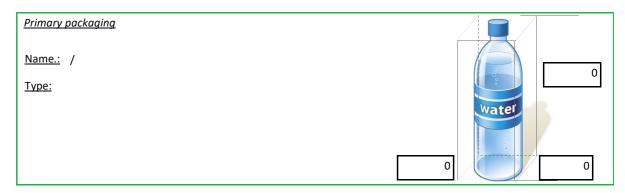
## **Pallet specifications**

Name of the pallet: Wienerberger 1020x720 LAN 240x115x71 384pcs - 2 straps

A wooden 1020x720 pallet containing 10 layers. In total there are 384 bricks LAN 240X115X71 on the pallet. There are 2 (16x0,89mm PET) vertical straps in the BP-direction.

Pallet type: 1020x720
Stacking pattern: Interlocked
# Layers: 10 Cases per layer:
Tie sheet between load and pallet:

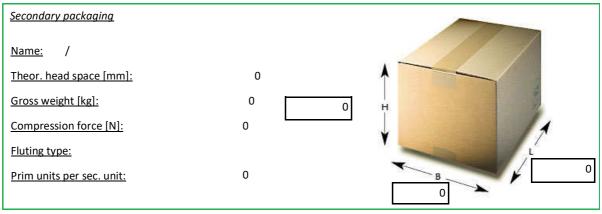
Tie sheet on top of layer(s):



1230

Height [mm]: 1150

720 Weight [kg]:



Additional packaging

Vertical straps