

# Certificate of shape stability

1. Ref. transp. packaging unit: Wienerberger 1170x600 WM 240x65x40 990pcs

**2.** Ref. measuring report: Wienerberger nv - 20190131005

**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

Description of the tested transport packaging unit

Description:

A wooden 1170x600 pallet containing 12 layers. In total there are 990 bricks WM 240x65x40 on the pallet. There are 2 vertical straps in the BP-direction. PET straps: 15x0,69mm

Primary packaging: / Secundary packaging: /

Tertiary packaging: Stretch film: □Stretch hood: □ Shrink hood: ☑ Straps: ☑

Add transport packaging: /

Anti slip up the pallet: □

Anti slip up on layer(s):

Stacking pattern: Interlocked

Pallet type: 1170x600 # Layers: 12

. Name and signature responsible of the packaging:

875

1170

**8.** Test conditions: Relative humidity: 50% - Temperature: 20°C - Sliding of the pallet is prevented mechanically.

Weight[kg]: 1000

Picture in the BP-direction after the test.







#### 10. Conclusions:

Height [mm]:
Length - LP [mm]:

Width - BP [mm]:

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.

ESTL nv Wafelstraet 16 85 to Derrijk 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 1170x600 WM 240x65x40 990pcs

Ref. measuring report: Wienerberger nv - 20190131005

# **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> - <u>Mob. nr.:</u> -

<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

People attending: Jelle Dendauw (ESTL), Danny Wallaert (Wienerberger nv)

Temperature [°C]: 20
Rel. humidity [%]: 50

<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.











Date: 31/01/2019

**Reference** 20190131/005

Company: Wienerberger nv

Author Dendauw Jelle Contact Danny Wallaert

Pallet name Wienerberger 1170x600 WM 240x65x40 990pcs

#### **Conclusions**













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## **General remarks and conclusions**

Conclusions:

- The pallet is behaving shape stable in the LP and BP-direction at 0,5g following EUMOS 40509.

## **Hood specifications**

Hood reference: Techno Sales shrink Thickness [µm]: 120 Hood\_Type: Shrink hood Initial dimensions [mm]x[mm]: 1410<sub>X</sub> 820 Vertical stretch [%]: Hor. stretch long side [%]: Hor. stetch short side [%]: Configuration of the hood: **V** 











**Reference** 20190131/005 **Company:** Wienerberger nv

.90131/005 Author Dendauw Jelle

elle **Contact** Danny Wallaert

Pallet name Wienerberger 1170x600 WM 240x65x40 990pcs

Date: 31/01/2019

## **Pallet specifications**

Name of the pallet: Wienerberger 1170x600 WM 240x65x40 990pcs

A wooden 1170x600 pallet containing 12 layers. In total there are 990 bricks WM 240x65x40 on the pallet. There are 2 vertical straps in the BP-direction. PET straps: 15x0,69mm

Pallet type: 1170x600

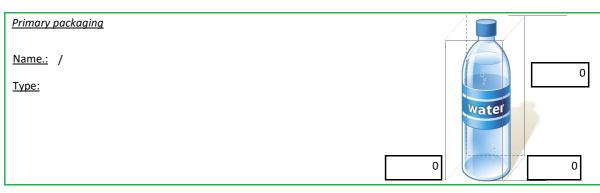
# Layers: 12 Cases per layer:
Tie sheet between load and pallet:

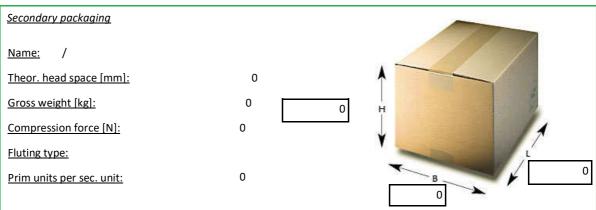
Tie sheet on top of layer(s):

Stacking pattern: Interlocked

<u>LP [mm]:</u> 1170 <u>BP[mm]:</u> 600 <u>Weight [kg]:</u> 1000 <u>Height [mm]:</u> 875







Additional packaging		
/		