

# Certificate of shape stability

1. Ref. transp. packaging unit: Wienerberger 1140x1140 POT Tile993 576pcs

**2.** Ref. measuring report: Wienerberger nv - 20190228008

**B.** Company: Wienerberger nv

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

5. Date: 28/02/2019 EN12195-1:2010

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

Description

A wooden 1140x1140 pallet containing 3 layers of tiles. Every layer contains 4 rows of 48 tiles. Each row is divided in 6 bundles of 8 tiles. The 8 tiles are bundled with one vertical strap. The 6 x 8 pcs are bundled with one horizontal strap as well. PE interlayers are used in between the layers. The same interlayers are used as dividers between the different rows per layer.

Primary packaging: / Secundary packaging: /

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

Add transport packaging: PE interlayers, 9mm straps

Anti slip up the pallet:

Anti slip up on layer(s):

Stacking pattern: Columnar

 Pallet\_type:
 1140x1140
 # Layers:
 3

 Height [mm]:
 1140
 Weight[kg]:
 1250

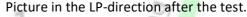
<u>Length - LP [mm]:</u> 1140

<u>Width - BP [mm]:</u> 1140

7. Name and signature responsible of the packaging:

**8.** Test conditions: Relative humidity: 50% - 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.

**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 1140x1140 POT Tile993 576pcs

Ref. measuring report: Wienerberger nv - 20190228008

## **Specifications of the test**

## Client

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

8500 Kortrijk

België

Contact pers.: Kristof Decroos
Tel. nr.: +32 (0) 56 43 93 29

Fax nr.:

Mob. nr.: +32 (0) 477 75 57 39

E-mail: Kristof.Decroos@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> 28/02/2019

People attending: Jelle Dendauw (ESTL), Kristof Decroos (Wienerberger)

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: 28/02/2019

**Reference** 20190228/008

Company: Wienerberger nv

Author Dendauw Jelle Contact: Kristof Decroos

Pallet name: Wienerberger 1140x1140 POT Tile993 576pcs

#### **Conclusions**













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**Author** Dendauw Jelle

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## **General remarks and conclusions**

#### Conclusions:

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

#### Remark:

- The pallet has been wrapped with stretch film? 19 revolutions of a  $17\mu m$  stretch film, resulting in a total consumption of 225 gram, have been applied to the pallet prior to stretch hooding.

## **Hood specifications**

Hood reference: Barbier Stretch hood Thickness [µm]: 120 Hood Type: Stretch hood Initial dimensions [mm]x[mm]: 880<sub>X</sub> 750 Vertical stretch [%]: Hor. stretch long side [%]: Hor. stetch short side [%]: Configuration of the hood: **✓** 











Reference 20190228/008

Author Dendauw Jelle

**Contact:** Kristof Decroos

Date: 28/02/2019

Company: Wienerberger nv

Pallet name: Wienerberger 1140x1140 POT Tile993 576pcs

## **Pallet specifications**

Name of the pallet: Wienerberger 1140x1140 POT Tile993 576pcs

A wooden 1140x1140 pallet containing 3 layers of tiles. Every layer contains 4 rows of 48 tiles. Each row is divided in 6 bundles of 8 tiles. The 8 tiles are bundled with one vertical strap. The 6 x 8 pcs are bundled with one horizontal strap as well. PE interlayers are used in between the layers. The same interlayers are used as dividers between the different rows per layer.



<u>Pallet type:</u> 1140x1140 <u>Stacking pattern:</u> Columnar

# Layers: 3 Cases per layer:

Tie sheet between load and pallet:

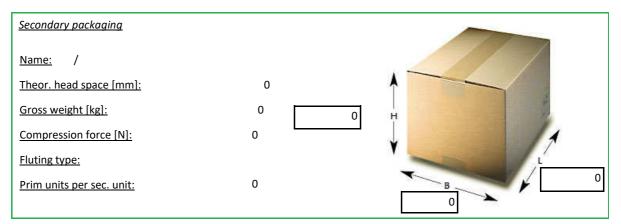
Tie sheet on top of layer(s):

<u>LP [mm]:</u> 1140 <u>BP[mm]:</u> 1140 <u>Weight [kg]:</u> 1250 <u>Height [mm]:</u> 1140

Primary packaging

Name.: /
Type:

0
0



Additional packaging

PE interlayers, 9mm straps