

1. Ref. transp. packaging unit:	Wienerberger 1140x1140 POT Tile44 660pcs - WRAP
2. Ref. measuring report:	Wienerberger nv - 20210308101
3. Company:	Wienerberger nv
4. Performed test:	Acceleration test following EUMOS40509:2020
5. Test date:	8/03/2021
6. Test institute and responsible:	ESTL nv, Wafelstraat 46, 8540 Deerlijk, Belgium - Dendauw Jelle

7. Description of the tested load unit:

A wooden 1140x1140 pallet containing 3 layers of tiles. Every layer contains 5 rows of 44 tiles. There is one horizontal strap per row. In between the layers and rows there is paper.

Primary packaging: / Secondary packaging: /

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

Add transport packaging: Paper 9mm straps

Anti slip up the pallet:

Anti slip up on layer(s):

Stacking pattern: Interlocked


Pallet type: 1140x1140 # Layers: 3

Height [mm]: 1065 Weight[kg]: 1300

Length - LP [mm]: 1140

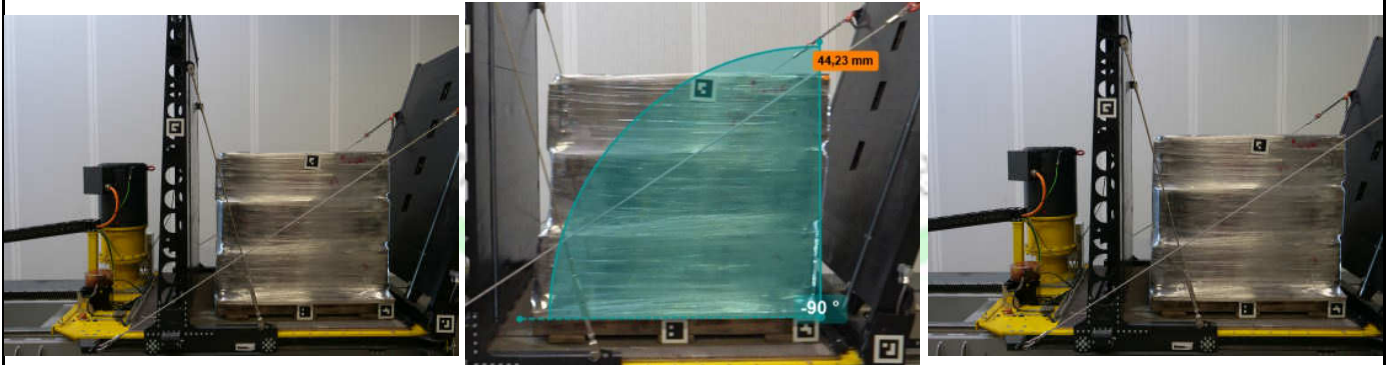
Width - BP [mm]: 1140

8. Name and signature responsible of the packaging: Kristof Decroos



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

10a. Picture before - during - after the acceleration test in the BP-direction



10b. Conclusion BP-direction:  
The tested load unit is shape stable in the BP-direction at 0.5g under the specified test conditions.

11a.

Picture before - during - after the acceleration test in the LP-direction



**11b. Conclusion LP-direction:**

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

12. Name and signature responsible of the test: Ing. J. Dendauw



## **Specifications of the test**

### **Contact information client**

Company: 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 46, 8540 Deerlijk, Belgium

Test responsible: Dendauw Jelle

Test equipment: MJ1500 acceleration bench

Test date: 8/03/2021

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

Temperature [°C]: 20

Rel. humidity [%]: 48

Load conditions: Sliding of the load unit is prevented mechanically.

Attached documents to the report: /

**Reference** 20210308/101  
**Company:** Wienerberger nv

**Author** Dendauw Jelle  
**LU name:** Wienerberger 1140x1140 POT Tile44 660pcs - WRAP

**Contact** Kristof Decroos

**Date:** 8/03/2021

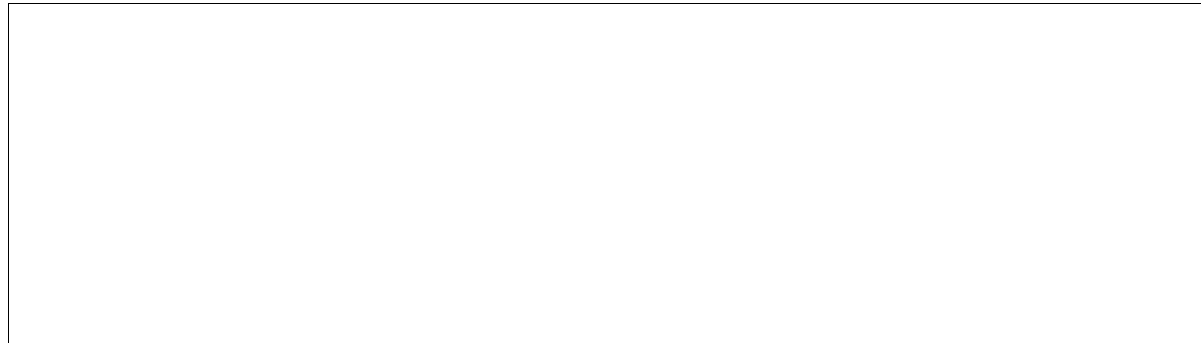
## Test specifications

<b>Customer:</b>	Wienerberger nv	<b>Contact:</b>	Kristof Decroos
<b>Test facility:</b>	ESTL nv, Wafelstraat 46, 8540 Deerlijk, Belgium	<b>Date</b>	8/03/2021
<b>Test engineer:</b>	Dendauw Jelle	<b>Temperature [°C]:</b>	20 <b>Rel. humidity [%]:</b> 48
<b>Load unit:</b>	Wienerberger 1140x1140 POT Tile44 660pcs - WRAP		

## Conclusions and remarks

**Conclusion LP-direction:** The load unit behaves shape stable following EUMOS40509 at an acceleration of 0,5g.

**Conclusion BP-direction:** The load unit behaves shape stable following EUMOS40509 at an acceleration of 0,5g.



## Pallet specifications

**Name of the pallet:** Wienerberger 1140x1140 POT Tile44 660pcs - WRAP

A wooden 1140x1140 pallet containing 3 layers of tiles. Every layer contains 5 rows of 44 tiles. There is one horizontal strap per row. In between the layers and rows there is paper.



**Pallet type:** 1140x1140

**Stacking pattern:** Interlocked

**# Layers:** 3 **Cases per layer:** 220

**Tie sheet between load and pallet:**

**Tie sheet on top of layer(s):**

**LP [mm]:** 1140 **BP[mm]:** 1140 **Weight [kg]:** 1300 **Height [mm]:** 1065

Reference 20210308/101  
Company: Wienerberger nv

Author Dendauw Jelle    Contact Kristof Decroos    Date: 8/03/2021  
LU name: Wienerberger 1140x1140 POT Tile44 660pcs - WRAP

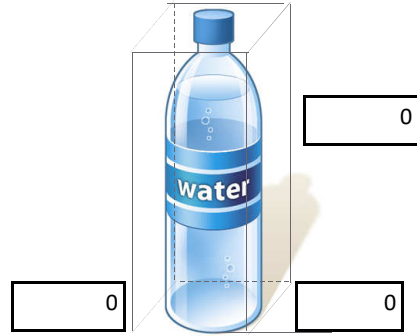
Primary packaging

Name.: /

Type:

Description:

/



Secondary packaging

Name: /

Theor. head space [mm]:

0

Gross weight [kg]:

0

Compression force [N]:

0

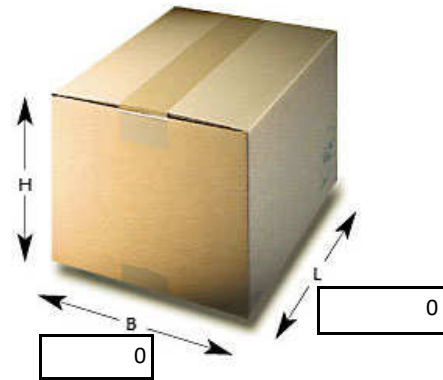
Fluting type:

Prim units per sec. unit:

0

Description:

/



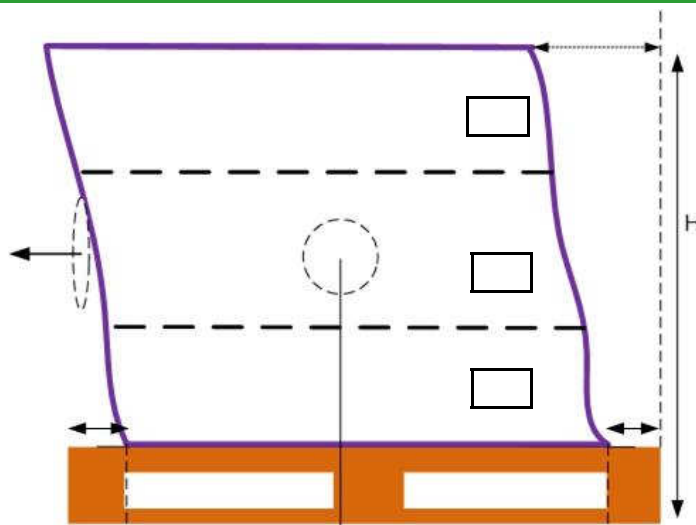
Additional packaging

Paper 9mm straps

**Tertiary packaging - stretch wrap**

Containment force short side [kg]:

Top:
Mid:
Bottom:



Containment force long side [kg]:

Top:
Mid:
Bottom:

The measurement protocol is available upon request.



Packaging



Type Approval



Load Securing



Engineering

**Reference** 20210308/101**Author** Dendauw Jelle**Contact** Kristof Decroos**Date:** 8/03/2021**Company:** Wienerberger nv**LU name:** Wienerberger 1140x1140 POT Tile44 660pcs - WRAPStretch film: Nano33 17Thickness [µm]: 17Producer: DarcopackPre-stretch[%]:2nd Stretch[%]:Stretch wrapper:Weight (g): 550Practical stretch [%]:Pallet roping: # Wrappings:Overlap when going up [%]:Overlap when going down [%]:Position of the roping [mm]:Foil overlap at the top [mm]:Type of cycle:

Double wrapping - start bottom

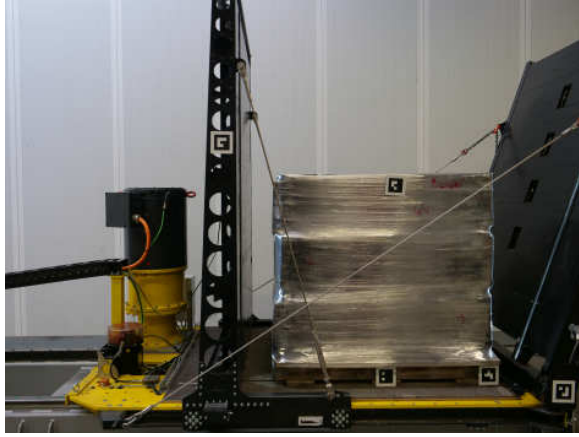
Reference 20210308/101  
Company: Wienerberger nv

Author Dendauw Jelle    Contact Kristof Decroos    Date: 8/03/2021  
LU name: Wienerberger 1140x1140 POT Tile44 660pcs - WRAP

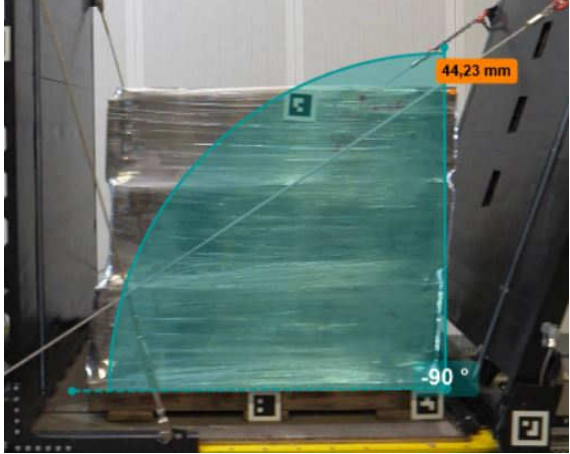
### Individual tests

Acceleration: 0,5    Direction: BP    **EUMOS40509 compliant?**

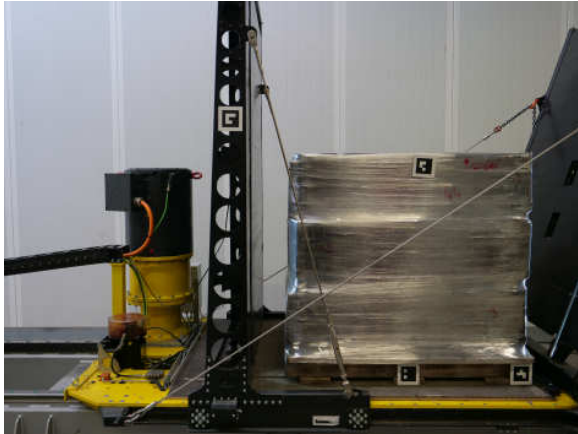
**BEFORE THE TEST**



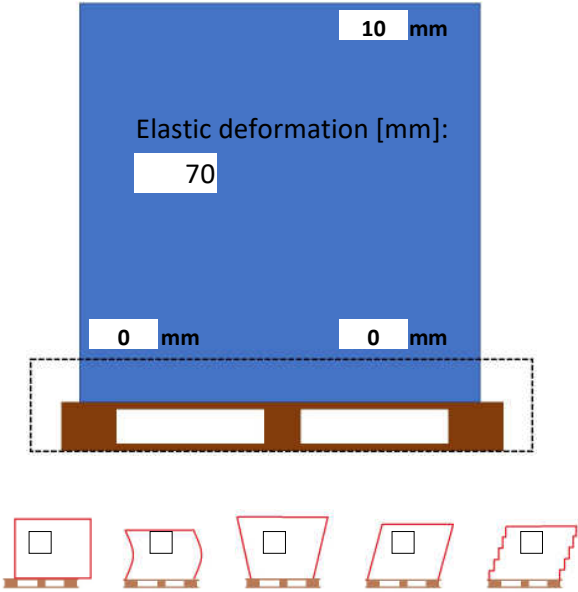
**DURING THE TEST (max deformation)**



**AFTER THE TEST**



**DEFORMATIONS**



Testing history sample:  
Ambient conditions.

Comment:  
The pallet is behaving shape stable at 0,5g in the BP-direction.

Reference 20210308/101  
Company: Wienerberger nv

Author Dendauw Jelle  
LU name: Wienerberger 1140x1140 POT Tile44 660pcs - WRAP

Contact Kristof Decroos

Date: 8/03/2021

Acceleration: 0,5

Direction: LP

EUMOS40509 compliant?

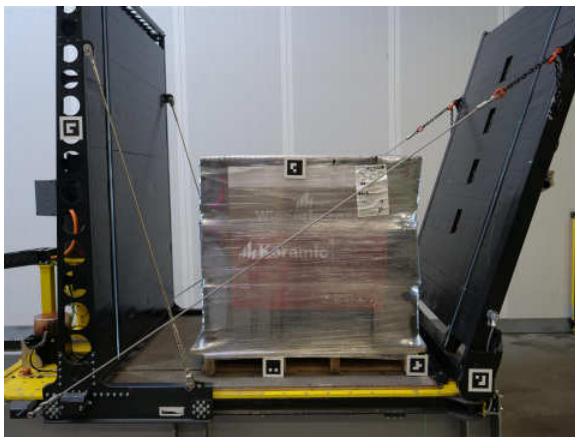
**BEFORE THE TEST**



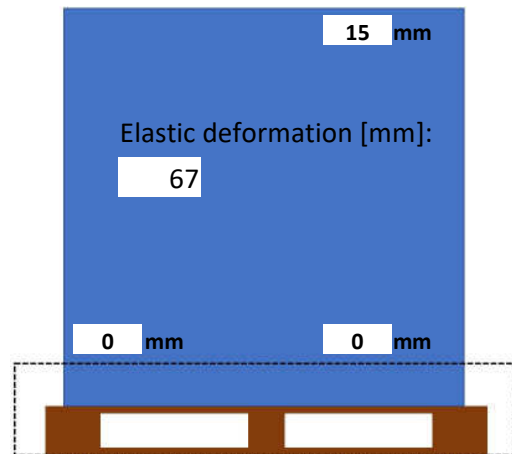
**DURING THE TEST (max deformation)**



**AFTER THE TEST**

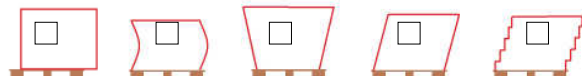


**DEFORMATIONS**



Testing history sample:

Ambient conditions  
Previous BP-test.



Comment:

The pallet is behaving shape stable at 0,5g in the LP-direction.