

1. Ref. transp. packaging unit:	Wienerberger 1200x650 BEE 215x102x50 648pcs - 4 vertical straps
2. Ref. measuring report:	Wienerberger nv - 20211214003
3. Company:	Wienerberger nv
4. Performed test:	Acceleration test following EUMOS40509:2020
5. Test date:	14/12/2021
6. Test institute and responsible:	ESTL nv, Wafelstraat 46, 8540 Deerlijk, Belgium - Dendauw Jelle

**7. Description of the tested load unit:**

A wooden 1200x650 pallet containing 11 layers. In total there are 648 bricks BEE 215x102x50 on the pallet. There are 4 vertical straps in the BP-direction. Steel strap: 16x0,5mm

Primary packaging: / Secondary 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

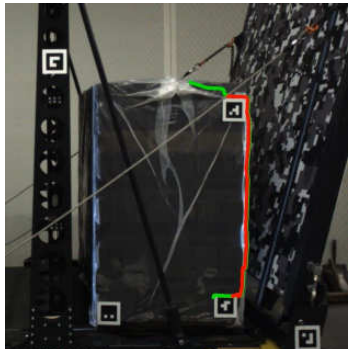
Pallet type: 1200x650 # Layers: 11

Height [mm]: 1100 Weight[kg]: 1370

Length - LP [mm]: 1200

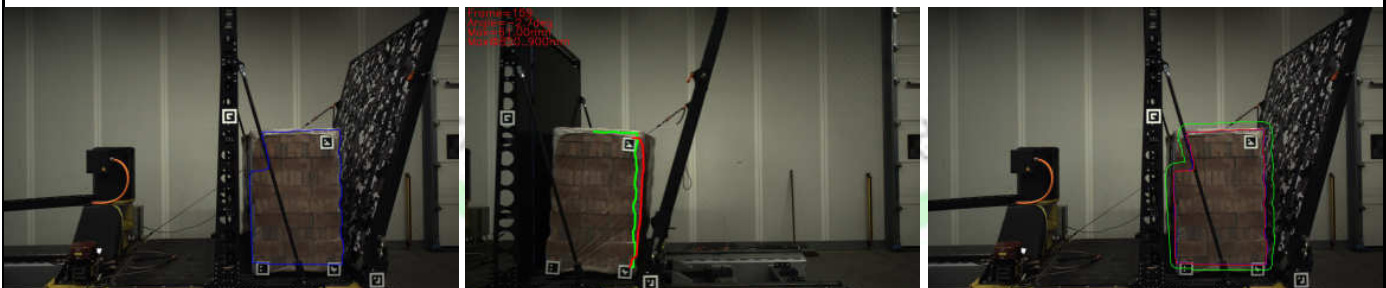
Width - BP [mm]: 650

**8. Name and signature responsible of the packaging:** Danny Wallaert



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

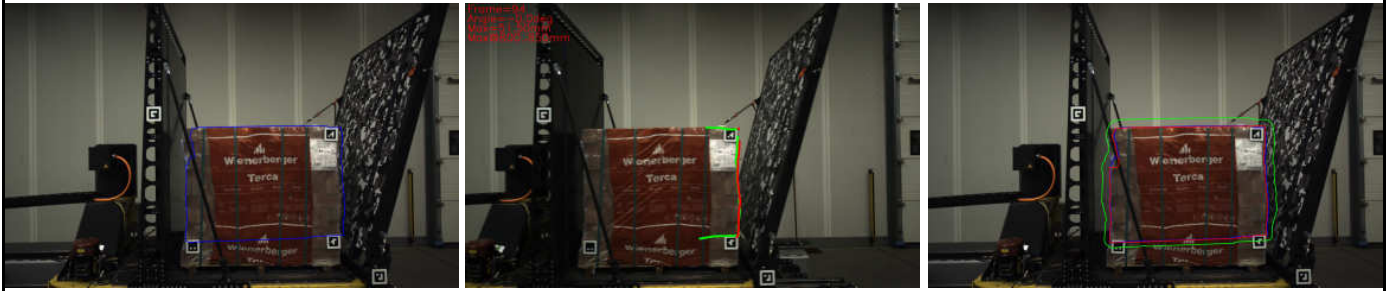
**10a.** Picture before - during - after the acceleration test in the BP-direction



**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 - durig - 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.:** Danny Wallaert  
**Tel. nr.:** +32 (0) 56 24 96 27  
**Fax nr.:** -  
**Mob. nr.:** -  
**E-mail:** Danny.Wallaert@wienerberger.com

**Test details:**

**Test facility:** ESTL nv, Wafelstraat 46, 8540 Deerlijk, Belgium  
**Test responsible:** Dendauw Jelle  
**Test equipment:** MJ1500 acceleration bench  
**Test date:** 14/12/2021  
**People attending:** Jelle Dendauw (ESTL), Danny Wallaert (Wienerberger)

**Temperature [°C]:** 20  
**Rel. humidity [%]:** 48  
**Load conditions:** Sliding of the load unit is prevented mechanically.  
**Attached documents to the report:** /

**Reference** 20211214/003  
**Company:** Wienerberger nv

**Author** Dendauw Jelle  
**LU name:** Wienerberger 1200x650 BEE 215x102x50 648pcs - 4 vertical straps

**Contact:** Danny Wallaert

**Date:** 14/12/2021

## Test specifications

<u>Customer:</u>	Wienerberger nv	<u>Contact:</u>	Danny Wallaert	
<u>Test facility:</u>	ESTL nv, Wafelstraat 46, 8540 Deerlijk, Belgium	<u>Date</u>	14/12/2021	
<u>Test engineer:</u>	Dendauw Jelle	<u>Temperature [°C]:</u>	20 <u>Rel. humidity [%]:</u>	48
<u>Load unit:</u>	Wienerberger 1200x650 BEE 215x102x50 648pcs - 4 vertical straps			

## Conclusions and remarks

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

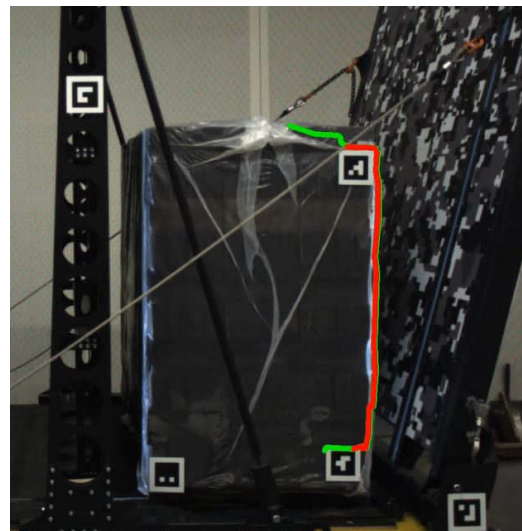
Conclusion BP-direction: The load unit behaves shape stable following EUMOS40509 at an acceleration of 0,5g.

The stones have been stacked in a more compact way.

## Pallet specifications

Name of the pallet: Wienerberger 1200x650 BEE 215x102x50 648pcs - 4 vertical straps

A wooden 1200x650 pallet containing 11 layers. In total there are 648 bricks BEE 215x102x50 on the pallet. There are 4 vertical straps in the BP-direction. Steel strap: 16x0,5mm



Pallet type: 1200x650

Stacking pattern: Interlocked

# Layers: 11 Cases per layer:

Tie sheet between load and pallet:

Tie sheet on top of layer(s):

LP [mm]: 1200 BP[mm]: 650 Weight [kg]: 1370 Height [mm]: 1100

Reference 20211214/003  
Company: Wienerberger nv

Author Dendauw Jelle      Contact: Danny Wallaert      Date: 14/12/2021  
LU name: Wienerberger 1200x650 BEE 215x102x50 648pcs - 4 vertical straps

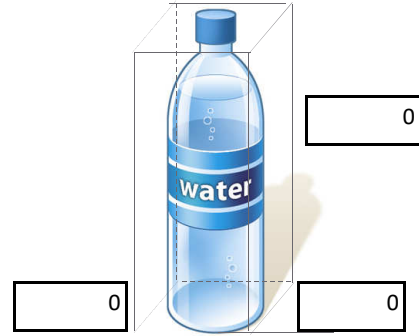
Primary packaging

Name: /

Type:

Description:

/



Secondary packaging

Name: /

Theor. head space [mm]:

0

Gross weight [kg]:

0

0

Compression force [N]:

0

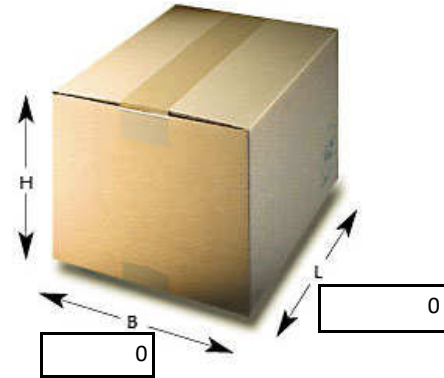
Fluting type:

Prim units per sec. unit:

0

Description:

/



Additional packaging

/

### Tertiary packaging - stretch hood

Hood reference: Trioworld stretch 150µm - 30PCR

Thickness [µm]: 150

Hood Type: Stretch hood

Initial dimensions [mm]x[mm]: 860x 800

Vertical stretch [%]:

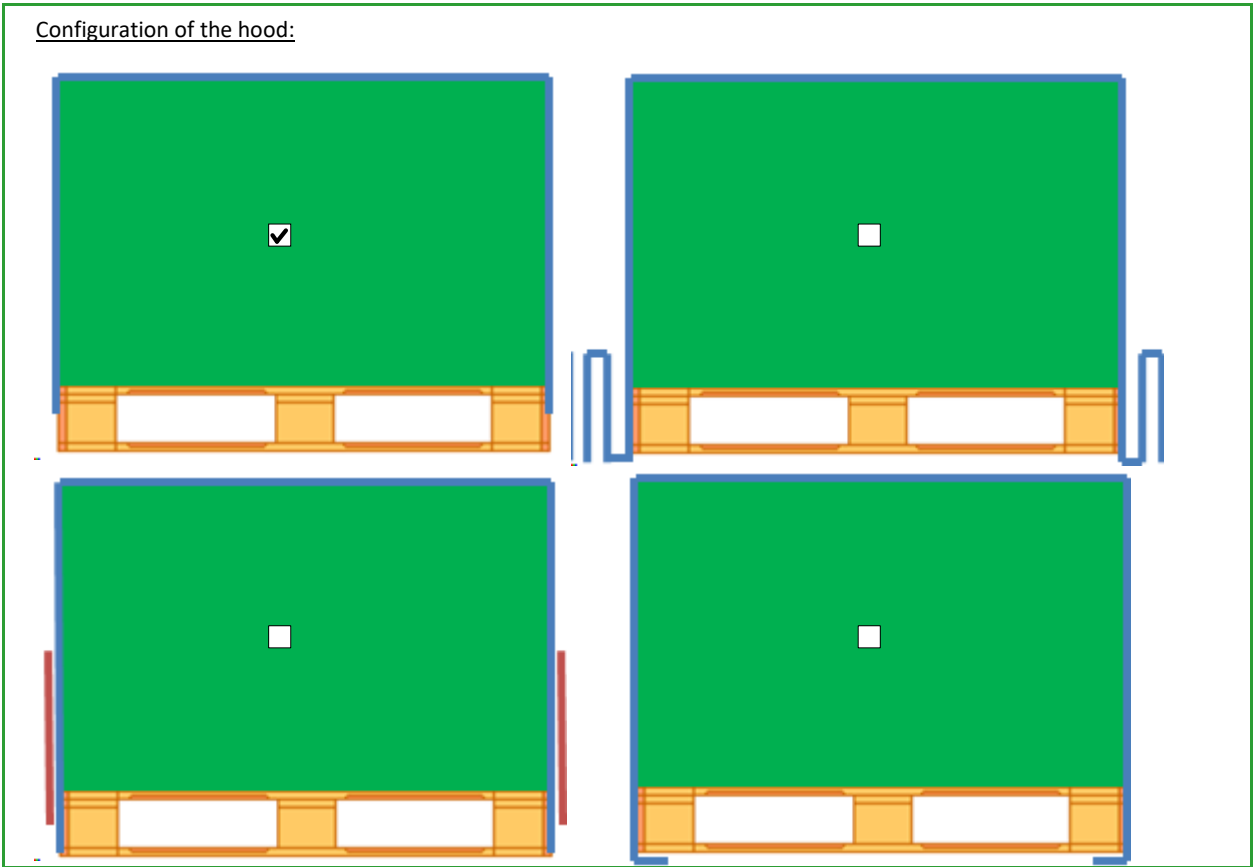
Hor. stretch long side [%]:

Hor. stretch short side [%]:

**Reference** 20211214/003  
**Company:** Wienerberger nv

**Author** Dendauw Jelle      **Contact:** Danny Wallaert      **Date:** 14/12/2021  
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Configuration of the hood:

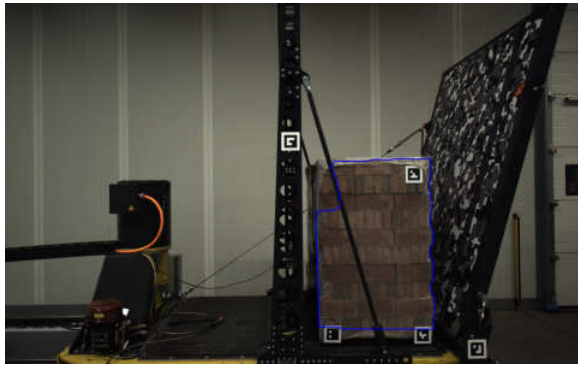
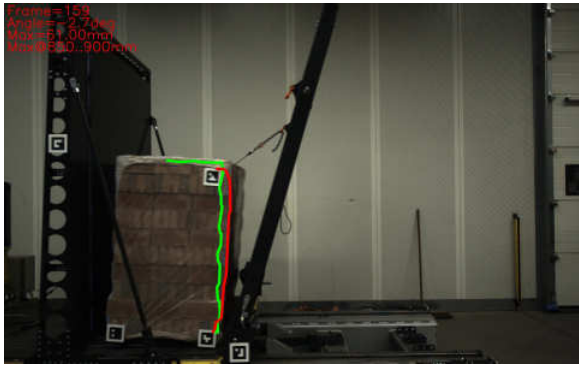
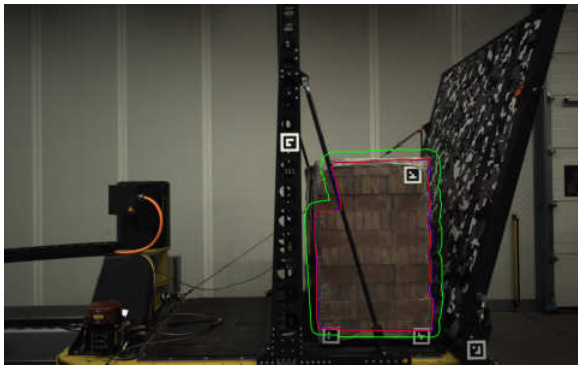
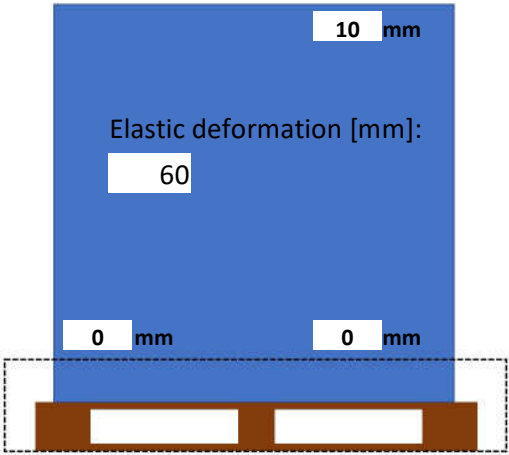
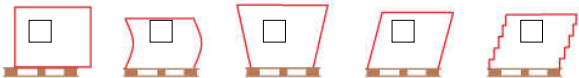


Reference 20211214/003  
Company: Wienerberger nv

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**Individual tests**

<u>Acceleration:</u> 0,5	<u>Direction:</u> BP	<b>EUMOS40509 compliant?</b> <input checked="" type="checkbox"/>
<b><u>BEFORE THE TEST</u></b>		<b><u>DURING THE TEST (max deformation)</u></b>
		
<b><u>AFTER THE TEST</u></b>		<b><u>DEFORMATIONS</u></b>
		
<u>Testing history sample:</u> Ambient conditions.		
<u>Comment:</u> The pallet behaves shape stable at 0,5g in the BP-direction.		

Reference 20211214/003  
Company: Wienerberger nv

Author Dendauw Jelle  
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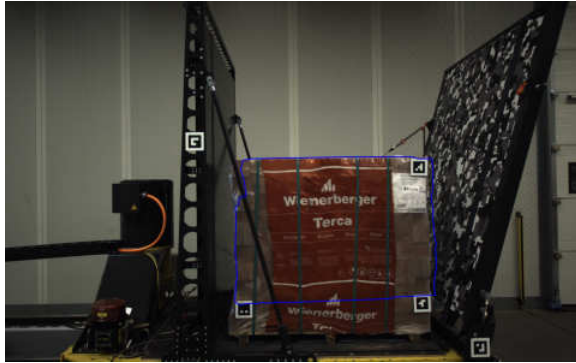
Contact: Danny Wallaert

Date: 14/12/2021

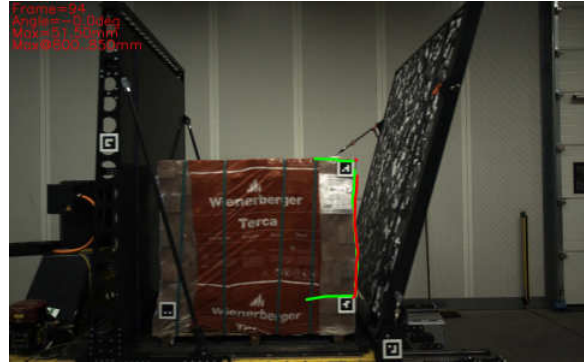
Acceleration: 0,5 Direction: LP

EUMOS40509 compliant?

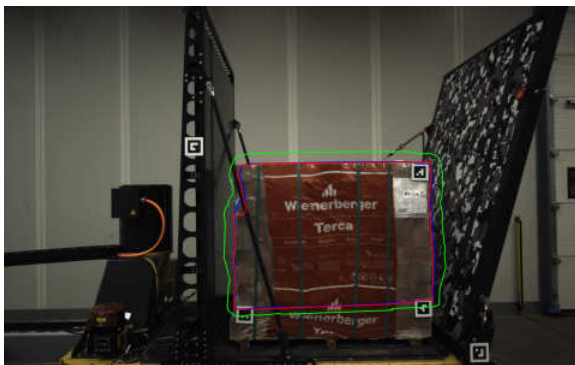
**BEFORE THE TEST**



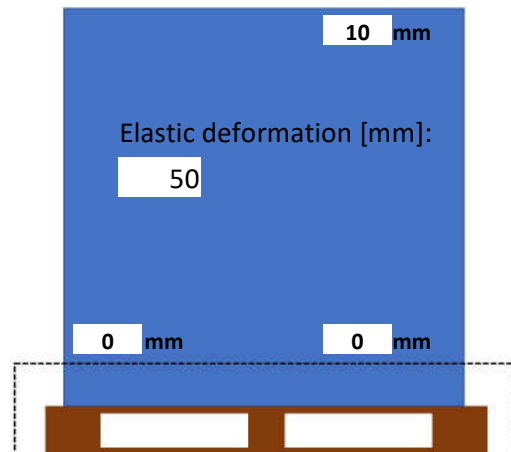
**DURING THE TEST (max deformation)**



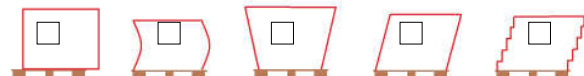
**AFTER THE TEST**



**DEFORMATIONS**



Testing history sample:  
Ambient conditions.



**Comment:**

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