

1. Ref. transp. packaging unit:	Wienerberger 1100x1100 PER 215X100x50 800pcs RETRO
2. Ref. measuring report:	Wienerberger nv - 20210427007
3. Company:	Wienerberger nv
4. Performed test:	Acceleration test following EUMOS40509:2020
5. Test date:	27/04/2021
6. Test institute and responsible:	ESTL nv, Wafelstraat 46, 8540 Deerlijk, Belgium - Dendauw Jelle

7. Description of the tested load unit:

A wooden 1100X1100 pallet containing several layers. In total there are 800 bricks PER 210x100x50 on the pallet.

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: 1100x1100 # Layers: 16

Height [mm]: 857 Weight[kg]: 1500

Length - LP [mm]: 1100

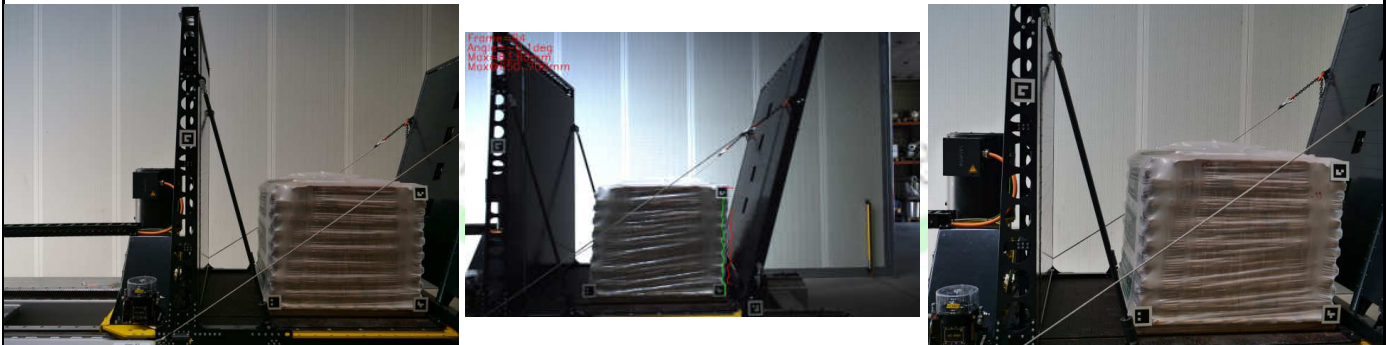
Width - BP [mm]: 1100

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 - 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.: 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: 27/04/2021
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 20210427/007
Company: Wienerberger nv

Author Dendauw Jelle
LU name: Wienerberger 1100x1100 PER 215X100x50 800pcs RETRO

Contact: Danny Wallaert

Date: 27/04/2021

Test specifications

Customer:	Wienerberger nv	Contact:	Danny Wallaert
Test facility:	ESTL nv, Wafelstraat 46, 8540 Deerlijk, Belgium	Date	27/04/2021
Test engineer:	Dendauw Jelle	Temperature [°C]:	20 Rel. humidity [%]: 48
Load unit:	Wienerberger 1100x1100 PER 215X100x50 800pcs RETRO		

Conclusions and remarks

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

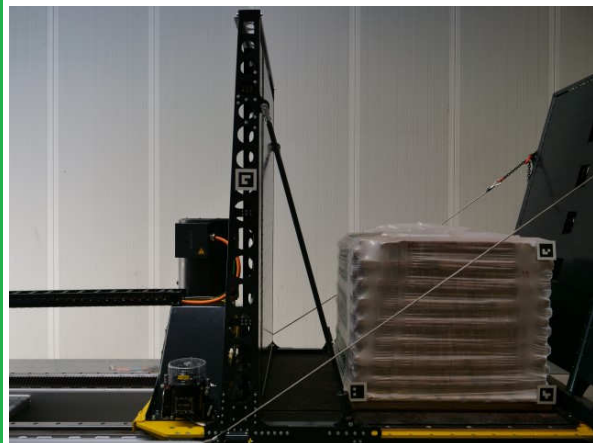
Conclusion BP-direction: The load unit behaves shape stable following EUMOS40509 at an acceleration of 0,5g.

There are 2 stretch hoods on top of each other.

Pallet specifications

Name of the pallet: Wienerberger 1100x1100 PER 215X100x50 800pcs RETRO

A wooden 1100X1100 pallet containing several layers. In total there are 800 bricks PER 210x100x50 on the pallet.



Pallet type: 1100x1100

Stacking pattern: Interlocked

Layers: 16 **Cases per layer:**

Tie sheet between load and pallet:

Tie sheet on top of layer(s):

LP [mm]: 1100 **BP[mm]:** 1100 **Weight [kg]:** 1500 **Height [mm]:** 857

Reference 20210427/007
Company: Wienerberger nv

Author Dendauw Jelle Contact: Danny Wallaert Date: 27/04/2021
LU name: Wienerberger 1100x1100 PER 215X100x50 800pcs RETRO

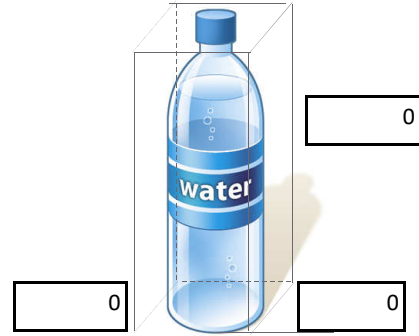
Primary packaging

Name: /

Type:

Description:

/



Secondary packaging

Name: /

Theor. head space [mm]:

0

Gross weight [kg]:

0

0

Compression force [N]:

0

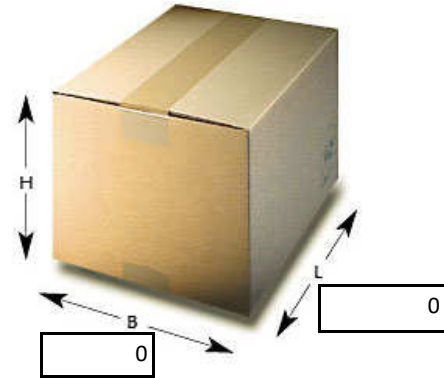
Fluting type:

Prim units per sec. unit:

0

Description:

/



Additional packaging

/

Tertiary packaging - stretch hood

Hood reference: Aldoplastics

Thickness [µm]: 110

Hood Type: Stretch hood

Initial dimensions [mm]x[mm]: 800x 700

Vertical stretch [%]:

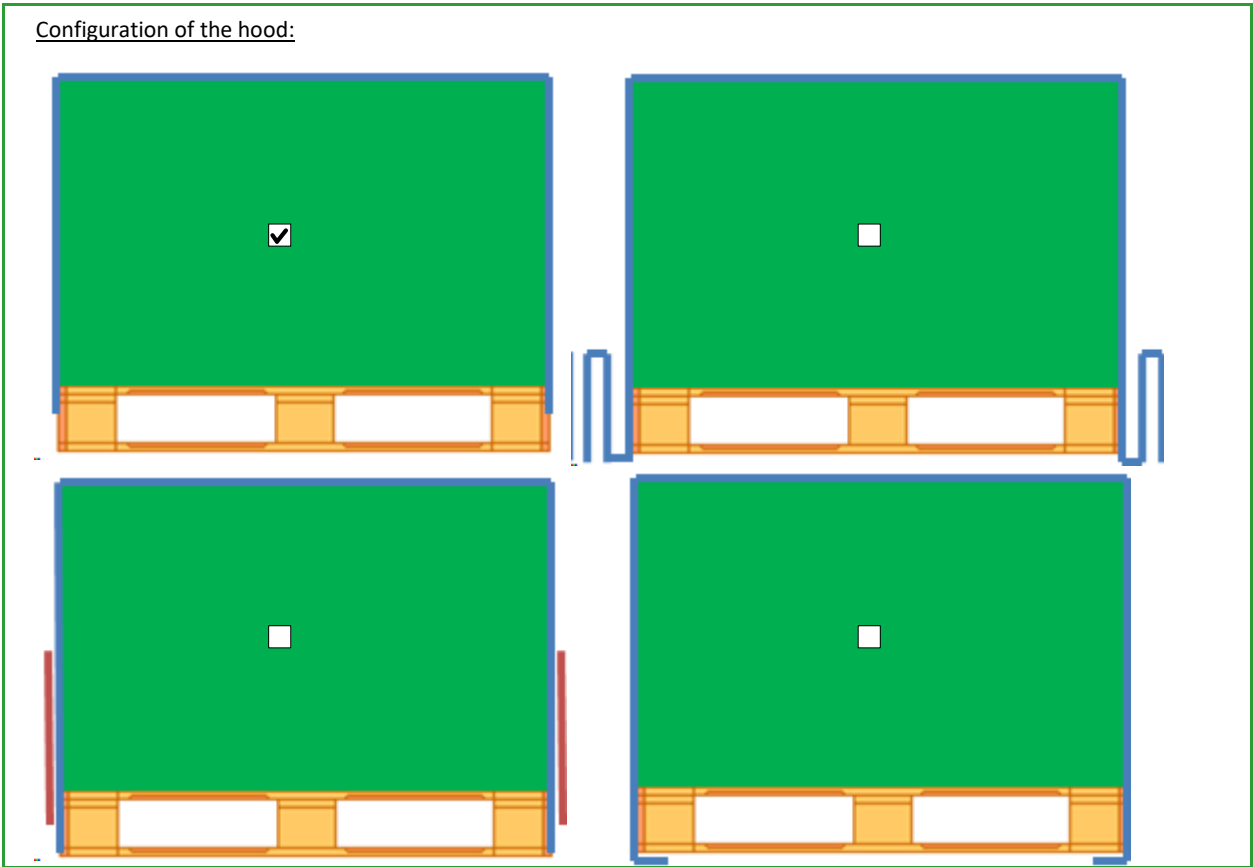
Hor. stretch long side [%]:

Hor. stretch short side [%]:

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Configuration of the hood:

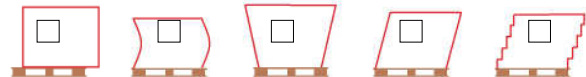


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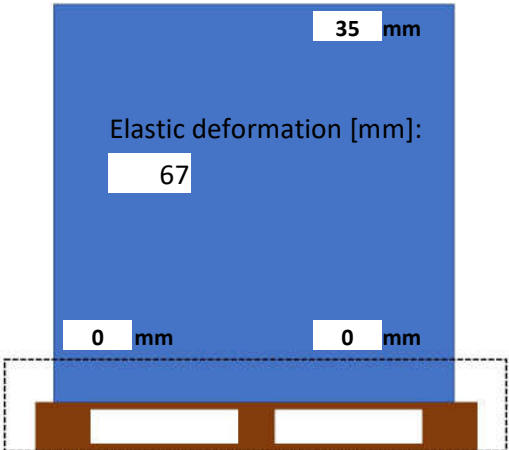
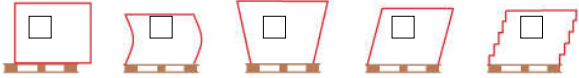
Individual tests

<u>Acceleration:</u> 0,5		<u>Direction:</u> BP	EUMOS40509 compliant? <input checked="" type="checkbox"/>
<u>BEFORE THE TEST</u>		<u>DURING THE TEST (max deformation)</u>	
<u>AFTER THE TEST</u>		<u>DEFORMATIONS</u>	
		<p>Elastic deformation [mm]: 50</p> <p>30 mm</p> <p>0 mm 0 mm</p>	
<u>Testing history sample:</u> Ambient conditions.			
<u>Comment:</u> The pallet is behaving shape stable at 0,5g in the BP-direction.			



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Company: Wienerberger nv

Author Dendauw Jelle Contact: Danny Wallaert Date: 27/04/2021
LU name: Wienerberger 1100x1100 PER 215X100x50 800pcs RETRO

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